



FCC TEST REPORT PART 0

Application No.: SZCR2404001136WM
Applicant: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Manufacturer: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
EUT Description: Mobile Phone
Model No.: CPH2637
Trade Mark: OPPO
FCC ID: R9C-OP23282
Standards: FCC 47CFR §2.1093
Date of Receipt: 2024/04/08
Date of Test: 2024/04/08 to 2024/05/06
Date of Issue: 2024/05/08
Test conclusion: **PASS**

Authorized Signature:

Keny Xu
Laboratory Manager



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REVISION HISTORY

Report Number	Revision	Description	Issue Date
SZCR240400113610	01	Original	2024/05/08

Prepared By	Vito Wang Vito Wang
Checked By	Roman Pan Roman Pan



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1 General Information

1.1 Details of Client

Applicant:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Applicant:	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China
Manufacturer:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address of Manufacturer:	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Vito Wang, Charley Yi



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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

Product Name:	Mobile Phone		
Model No.:	CPH2637		
Trade Mark:	OPPO		
Product Phase:	Identical Prototype		
IMEI:	867650070020775, 867650070021799, 867650070023050 867650070022110, 867650070023233, 867650070021310		
Hardware Version:	11		
Software Version:	ColorOS 14.0		
Antenna Type:	IFA Antenna		
Device Operating Configurations:			
Modulation Mode:	GSM: GMSK,8PSK; WCDMA: QPSK,16QAM LTE: QPSK,16QAM,64QAM 5G NR: DET-s-OFDM(QPSK,16QAM,64QAM,256QAM) CP-OFDM(QPSK,16QAM,64QAM,256QAM) WIFI: DSSS,OFDM; 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:	6
Power Class:	4, tested with power level 5(GSM850, GSM900) 1, tested with power level 0(GSM1900) 3, tested with power control "all 1"(WCDMA Band) 3, tested with power control "max power"(LTE Band)		
Frequency Bands:	Band	Tx(MHz)	Rx(MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 17	704~716	734~746
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41 (Class 2/3)	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2120
	NR Band n2	1850~1910	1930~1990
	NR Band n5	824~849	869~894
	NR Band n7	2500~2570	2620~2690
	NR Band n12	699~716	729~746



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	NR Band n26	814~849	859~894
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n66	1710~1780	2110~2120
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5350	5150~5350
		5470~5600	5470~5600
		5650~5725	5650~5725
		5725~5850	5725~5850
	BT	2402~2480	2402~2480
NFC	13.56	13.56	
RF Cable:	Provided by applicant Provided by the laboratory		
Battery Information:	Model:	BLPA79	
	Normal Voltage:	3.91V	
	Rated capacity:	4870mAh	
	Manufacturer:	Chongqing Cosmx Battery Co.,LTD	
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.			
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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 MTK 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. All WWAN Band are configured for time-average exposure mode, we verification the applicable cases in part2.

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 technologies and bands



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2 SAR CHARACTERIZATION

2.1 STATE and SAR Determination

This device uses different Device State Index (STATE) 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 STATE. 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 (STATE) conditions used in Table 1 represent different exposure scenarios.

Scenario	Description	SAR Test Cases
Head (state = 2)	- Device positioned next to head - Receiver Active	Head SAR per KDB Publication 648474 D04
Hotspot mode (state = 3))	- Device transmits in hotspot mode near body - Hotspot Mode Active	Hotspot SAR per KDB Publication 941225 D06
Phablet (state = 1)	Device is held with hand	Phablet SAR per KDB Publication 648474 D04
Body-worn (state = 1)	Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474 D04

Table 1: STATE 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
Hotsopt	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 (STATE: Device State Index).

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

Band	Mode	Antenna	P_{max}^* (average)	P_{limit} (average)			P_{max}^* (burst)	P_{limit} (burst)		
				ECI1(State1) (Body Worn)	ECI2(State2) (Head)	ECI3(State3) (Hotspot)		ECI1(State1) (Body Worn)	ECI2(State2) (Head)	ECI3(State3) (Hotspot)
GSM 850	GPRS 4TS	0	24.00	24.00	24.00	24.00	27.01	27.01	27.01	27.01
	GPRS 4TS	1	24.00	24.00	23.00	24.00	27.01	27.01	26.01	27.01
GSM 1900	GPRS 2TS	0	21.00	21.00	21.00	21.00	27.02	27.02	27.02	27.02
	GPRS 2TS	1	21.00	21.00	16.00	20.50	27.02	27.02	22.02	26.52
WCDMA_B2	RMC	0	24.00	22.00	24.00	19.50	24.00	22.00	24.00	19.50
	RMC	1	24.00	21.00	16.50	18.50	24.00	21.00	16.50	18.50
WCDMA_B4	RMC	0	24.00	21.00	24.00	18.50	24.00	21.00	24.00	18.50
	RMC	1	24.00	20.50	16.00	18.00	24.00	20.50	16.00	18.00
WCDMA_B5	RMC	0	24.00	24.00	24.00	23.00	24.00	24.00	24.00	23.00
	RMC	1	24.00	24.00	21.50	23.50	24.00	24.00	21.50	23.50
LTE_B2	QPSK	0	23.00	22.50	23.00	20.50	23.00	22.50	23.00	20.50
	QPSK	1	23.00	21.50	16.50	19.50	23.00	21.50	16.50	19.50
LTE_B4	QPSK	0	24.20	21.70	24.20	19.20	24.20	21.70	24.20	19.20
	QPSK	1	24.20	21.20	17.20	19.20	24.20	21.20	17.20	19.20
	QPSK	4	23.20	23.20	23.20	21.70	23.20	23.20	23.20	21.70
LTE_B5	QPSK	0	24.20	24.20	24.20	23.70	24.20	24.20	24.20	23.70
	QPSK	1	24.20	24.20	21.70	24.20	24.20	24.20	21.70	24.20
LTE_B7	QPSK	0	24.20	22.70	24.20	20.20	24.20	22.70	24.20	20.20
	QPSK	1	24.20	18.70	16.20	16.70	24.20	18.70	16.20	16.70
	QPSK	4	23.20	21.70	21.70	19.20	23.20	21.70	21.70	19.20
LTE_B12	QPSK	0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
	QPSK	1	24.20	24.20	22.70	23.70	24.20	24.20	22.70	23.70
LTE_B13	QPSK	0	23.50	23.50	23.50	23.50	23.50	23.50	23.50	23.50
	QPSK	1	23.50	23.50	22.00	23.50	23.50	23.50	22.00	23.50
LTE_B17	QPSK	0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
	QPSK	1	24.20	24.20	22.70	23.70	24.20	24.20	22.70	23.70
LTE_B26	QPSK	0	24.20	24.20	24.20	23.70	24.20	24.20	24.20	23.70
	QPSK	1	24.20	24.20	21.70	24.20	24.20	24.20	21.70	24.20
LTE_B66	QPSK	0	24.20	21.70	24.20	19.20	24.20	21.70	24.20	19.20
	QPSK	1	24.20	21.20	17.20	19.20	24.20	21.20	17.20	19.20
	QPSK	4	23.30	23.30	23.30	21.80	23.30	23.30	23.30	21.80
LTE_B38	QPSK	0	22.20	22.20	22.20	21.20	24.19	24.19	24.19	23.19
	QPSK	1	22.20	21.70	18.20	19.20	24.19	23.69	20.19	21.19
	QPSK	4	20.20	20.20	20.20	18.70	22.19	22.19	22.19	20.69
LTE_B41 PC3	QPSK	0	23.00	23.00	23.00	23.00	24.99	24.99	24.99	24.99
	QPSK	1	22.60	22.60	18.10	21.10	24.59	24.59	20.09	23.09
	QPSK	4	21.30	21.30	21.30	20.80	23.29	23.29	23.29	22.79
LTE_B41 PC2	QPSK	0	22.20	22.20	22.20	22.20	25.84	25.84	25.84	25.84
	QPSK	1	22.20	22.20	17.70	20.70	25.84	25.84	21.34	24.34
	QPSK	4	20.80	20.80	20.80	20.30	24.44	24.44	24.44	23.94
NR5G_N2	QPSK	0	23.00	22.00	23.00	20.00	23.00	22.00	23.00	20.00
	QPSK	1	23.00	21.00	15.00	19.00	23.00	21.00	15.00	19.00
NR5G_N5	QPSK	0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
	QPSK	1	24.20	24.20	21.20	24.20	24.20	24.20	21.20	24.20
NR5G_N7	QPSK	0	24.30	22.30	24.30	19.80	24.30	22.30	24.30	19.80
	QPSK	1	24.30	18.30	15.80	15.80	24.30	18.30	15.80	15.80
	QPSK	4	23.30	21.30	19.80	18.80	23.30	21.30	19.80	18.80
NR5G_N12	QPSK	0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20



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	QPSK	1	24.20	24.20	22.70	23.20	24.20	24.20	22.70	23.20
NR5G_N26	QPSK	0	24.20	24.20	24.20	24.20	24.20	24.20	24.20	24.20
	QPSK	1	24.20	24.20	21.20	24.20	24.20	24.20	21.20	24.20
NR5G_N38	QPSK	0	24.50	23.00	24.50	20.50	24.50	23.00	24.50	20.50
	QPSK	1	24.50	20.00	17.00	19.50	24.50	20.00	17.00	19.50
NR5G_N41	QPSK	4	23.50	20.00	20.00	17.50	23.50	20.00	20.00	17.50
	QPSK	0	24.50	23.00	24.50	20.50	24.50	23.00	24.50	20.50
NR5G_N66	QPSK	1	24.50	20.00	17.00	18.00	24.50	20.00	17.00	18.00
	QPSK	4	23.50	20.00	20.00	17.50	23.50	20.00	20.00	17.50
NR5G_N66	QPSK	0	24.30	21.30	24.30	18.80	24.30	21.30	24.30	18.80
	QPSK	1	24.30	20.80	17.30	18.80	24.30	20.80	17.30	18.80
	QPSK	4	23.30	23.30	23.30	21.80	23.30	23.30	23.30	21.80

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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