# **FCC RF Test Report**

APPLICANT : Guangdong OPPO Mobile Telecommunications

Corp., Ltd.

**EQUIPMENT**: Mobile Phone

BRAND NAME : OPPO

MODEL NAME : CPH2305

FCC ID : R9C-CPH2305

STANDARD : 47 CFR Part 2, 24, 27

**CLASSIFICATION**: PCS Licensed Transmitter Held to Ear (PCE)

TEST DATE(S) : Nov. 17, 2021

We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Frie Shih

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Approved by: Eric Shih / Manager

### Sporton International (ShenZhen) Inc.

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People's Republic of China

Sporton International (Shenzhen) Inc.

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Report Version : Rev. 01

Cert #5145.01

Report No.: FG101422D

Report Template No.: BU5-FGLTE Version 2.0

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### **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1O1422D	Rev. 01	Initial issue of report	Dec. 02, 2021

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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark	
	§2.1046	Conducted Output Power	Reporting Only	PASS	1	
-	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7)	EIRP < 2Watt	PASS	1	
-	N/A	Peak-to-Average Ratio	<13 dB	PASS	1	
-	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1	
_	§2.1051 §24.238(a)	Conducted Band Edge Measurement (Band 2)	< 43+10log10(P[Watts])	PASS	1	
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7)	§27.53(m)(4)	1 700	-	
_	§2.1051 §24.238(a)	Conducted Spurious Emission (Band 2)	< 43+10log10(P[Watts])	PASS	1	
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7)	< 55+10log <sub>10</sub> (P[Watts])	17.00	•	
_	§2.1055 §22.355	Frequency Stability	< 2.5 ppm for Part 22	PASS	1	
	§2.1055 §27.54	Temperature & Voltage	Within Authorized Band		ı	
2.4	§2.1053 §24.238(a)	Radiated Spurious Emission (Band 2)	< 43+10log <sub>10</sub> (P[Watts])		Under limit 27.98 dB at	
3.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7)	< 55+10log <sub>10</sub> (P[Watts])	PASS	10104.360 MHz	

#### Remark 1:

The test items of inter band CA were cover by LTE single carrier due to the CA power is reduced according to 3GPP MPR.

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are 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.

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# 1 General Description

### 1.1 Applicant

#### **Guangdong OPPO Mobile Telecommunications Corp., Ltd.**

NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

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#### 1.2 Manufacturer

#### Guangdong OPPO Mobile Telecommunications Corp., Ltd.

NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China

### 1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	Mobile Phone					
Brand Name	OPPO					
Model Name	CPH2305					
FCC ID	R9C-CPH2305					
IMEI Code	Radiation: 866483050044297/866483050044289					
HW Version	11					
SW Version	ColorOS V12.1					
EUT Stage	Production Unit					

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.4 Product Specification of Equipment Under Test

	Standards-related Product Specification
Ty Fraguency	LTE Band 2: 1850 MHz ~ 1910 MHz
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz
By Fraguency	LTE Band 2: 1930 MHz ~ 1990 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz
Uplink CA Bands	2A-7A; 7A-2A
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM(Downlink only)

#### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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### 1.6 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

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Test Firm	Sporton International (Shenzhen) Inc.					
Test Site Location  101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fengh Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Pro China 518103 TEL: +86-755-33202398						
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
	03CH03-SZ	CN1256	421272			

### 1.7 Test Software

Item	Site	Manufacture	Name	Version	
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24	

### 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 24, 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

#### Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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### 2 Test Configuration of Equipment Under Test

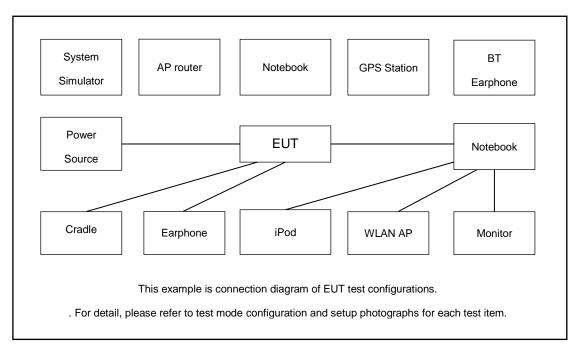
### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

T	s Band		Bandwidth (MHz)			Modulation			RB#			Test Channel				
Test Items	Ва	na	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	Н
Radiated Spurious Emission	2A-	7A	Worst Case							٧						
	7A-	2A		Worst Case									v			
Note	1. 2. 3.	The m	nark "-" levice is	means t	hat this b ated fro	oandwidt m 30MH:	h is not s z to 10 tin		mental signa	al for radiated s vorst case emis				der dif	ferent	RB

### 2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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### 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8821C	Fcc DoC	N/A	Shielded, 1.5m

# 2.4 Frequency List of Low/Middle/High Channels

	LTE Band 2 Cha	nnel and Frequenc	cy List	
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
20	Frequency	1860	1880	1900
45	Channel	18675	18900	19125
15	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
10	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
5	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
3	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
1.4	Frequency	1850.7	1880	1909.3

	LTE Band 7 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest						
20	Channel	20850	21100	21350						
20	Frequency	2510	2535	2560						
4.5	Channel	20825	21100	21375						
15	Frequency	2507.5	2535	2562.5						
40	Channel	20800	21100	21400						
10	Frequency	2505	2535	2565						
F	Channel	20775	21100	21425						
5	Frequency	2502.5	2535	2567.5						

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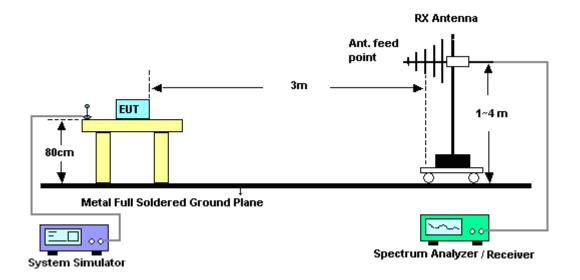
### 3 Radiated Test Items

### 3.1 Measuring Instruments

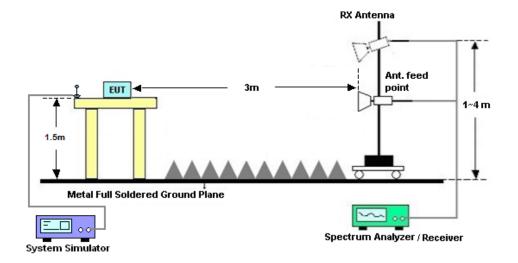
See list of measuring instruments of this test report.

### 3.2 Test Setup

#### 3.2.1 For radiated test from 30MHz to 1GHz



#### 3.2.2 For radiated test above 1GHz



### 3.3 Test Result of Radiated Test

Please refer to Appendix A.

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### 3.4 Radiated Spurious Emission

#### 3.4.1 Description of Radiated Spurious Emission

For LTE Band 5

The radiated spurious emission was measured by substitution method according to ANSI C63.26.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. For Band 5

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.
- 13. For Band 7:

The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

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# 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 07, 2021	Nov. 17, 2021	Apr. 06, 2022	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Nov. 17, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 07, 2021	Nov. 17, 2021	Apr. 06, 2022	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Nov. 17, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 25 2021	Nov. 17, 2021	Apr. 24 2022	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Nov. 17, 2021	Oct. 21, 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Oct. 22, 2021	Nov. 17, 2021	Oct. 21, 2022	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Nov. 17, 2021	Apr. 10, 2022	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 30, 2020	Nov. 17, 2021	Dec. 29, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Nov. 17, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Nov. 17, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Nov. 17, 2021	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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### 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### <u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	2.040
Confidence of 95% (U = 2Uc(y))	3.0dB

#### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	2215
Confidence of 95% (U = 2Uc(y))	3.6dB

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	3.8dB
Confidence of 95% (U = 2Uc(y))	3.0UD

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# **Appendix A. Test Results of Radiated Test**

# **Radiated Spurious Emission**

#### **Top Antenna:**

				ULCA	2A-7A				
Channel	Frequency (MHz)	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	3742.18	-61.94	-13	-48.94	-76.37	-68.69	5.85	12.60	Н
LTE B2	5613.27	-60.16	-13	-47.16	-77.00	-65.96	7.30	13.10	Н
BW 20MHz	7484.36	-55.13	-13	-42.13	-77.51	-58.28	8.35	11.50	Н
Middle	3742.18	-61.22	-13	-48.22	-75.86	-67.97	5.85	12.60	V
1RB0,QPSK	5613.27	-60.99	-13	-47.99	-77.74	-66.79	7.30	13.10	V
	7484.36	-55.59	-13	-42.59	-77.9	-58.74	8.35	11.50	V
	5052.18	-57.38	-25	-32.38	-74.80	-62.94	7.14	12.70	Н
LTE B7	7578.27	-55.36	-25	-30.36	-77.52	-58.66	8.30	11.60	Н
BW 20MHz Middle 1RB0,QPSK	10104.36	-52.98	-25	-27.98	-79.87	-54.50	10.48	12.00	Н
	5052.18	-59.32	-25	-34.32	-76.67	-64.88	7.14	12.70	V
	7578.27	-55.68	-25	-30.68	-77.64	-58.98	8.30	11.60	V
	10104.36	-53.31	-25	-28.31	-79.71	-54.83	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	ULCA_7A-2A									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)	
	5052.18	-56.59	-25	-31.59	-74.01	-62.15	7.14	12.70	Н	
LTE B7	7578.27	-55.66	-25	-30.66	-77.82	-58.96	8.30	11.60	Н	
BW 20MHz Middle	10104.36	-53.38	-25	-28.38	-80.27	-54.90	10.48	12.00	Н	
	5052.18	-59.49	-25	-34.49	-76.84	-65.05	7.14	12.70	V	
1RB0,QPSK	7578.27	-55.94	-25	-30.94	-77.9	-59.24	8.30	11.60	V	
	10104.36	-53.72	-25	-28.72	-80.12	-55.24	10.48	12.00	V	
	3742.18	-62.38	-13	-49.38	-76.81	-69.13	5.85	12.60	Н	
LTE B2	5613.27	-61.26	-13	-48.26	-78.10	-67.06	7.30	13.10	Н	
BW 20MHz	7484.36	-55.68	-13	-42.68	-78.06	-58.83	8.35	11.50	Н	
Middle 1RB0,QPSK	3742.18	-62.13	-13	-49.13	-76.77	-68.88	5.85	12.60	V	
	5613.27	-61.56	-13	-48.56	-78.31	-67.36	7.30	13.10	V	
	7484.36	-55.86	-13	-42.86	-78.17	-59.01	8.35	11.50	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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#### **Bottom Antenna:**

				ULCA	2A-7A				
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	3742.18	-61.72	-13	-48.72	-76.15	-68.47	5.85	12.60	Н
LTE B2	5613.27	-61.05	-13	-48.05	-77.89	-66.85	7.30	13.10	Н
BW 20MHz	7484.36	-55.33	-13	-42.33	-77.71	-58.48	8.35	11.50	Н
Middle	3742.18	-61.36	-13	-48.36	-76	-68.11	5.85	12.60	V
1RB0,QPSK	5613.27	-61.15	-13	-48.15	-77.9	-66.95	7.30	13.10	V
	7484.36	-55.53	-13	-42.53	-77.84	-58.68	8.35	11.50	V
	5052.18	-57.90	-25	-32.90	-75.32	-63.46	7.14	12.70	Н
LTE B7	7578.27	-55.65	-25	-30.65	-77.81	-58.95	8.30	11.60	Н
BW 20MHz	10104.36	-53.02	-25	-28.02	-79.91	-54.54	10.48	12.00	Н
Middle 1RB0,QPSK	5052.18	-60.19	-25	-35.19	-77.54	-65.75	7.14	12.70	V
	7578.27	-55.57	-25	-30.57	-77.53	-58.87	8.30	11.60	V
	10104.36	-53.36	-25	-28.36	-79.76	-54.88	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

				ULCA	_7A-2A				
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	5052.18	-55.70	-25	-30.70	-73.12	-61.26	7.14	12.70	Н
LTE B7	7578.27	-55.80	-25	-30.80	-77.96	-59.10	8.30	11.60	Н
BW 20MHz	10104.36	-53.35	-25	-28.35	-80.24	-54.87	10.48	12.00	Н
Middle	5052.18	-58.79	-25	-33.79	-76.14	-64.35	7.14	12.70	V
1RB0,QPSK	7578.27	-56.20	-25	-31.20	-78.16	-59.50	8.30	11.60	V
	10104.36	-53.70	-25	-28.70	-80.1	-55.22	10.48	12.00	V
	3742.18	-62.44	-13	-49.44	-76.87	-69.19	5.85	12.60	Н
LTE B2	5613.27	-61.32	-13	-48.32	-78.16	-67.12	7.30	13.10	Н
BW 20MHz Middle 1RB0,QPSK	7484.36	-55.73	-13	-42.73	-78.11	-58.88	8.35	11.50	Н
	3742.18	-62.39	-13	-49.39	-77.03	-69.14	5.85	12.60	V
	5613.27	-61.20	-13	-48.20	-77.95	-67.00	7.30	13.10	V
	7484.36	-55.80	-13	-42.80	-78.11	-58.95	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Sporton International (Shenzhen) Inc.

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