



FCC RADIO TEST REPORT FCC ID: 2ANMU-C90PRO

Product: Smart Phone

Trade Mark: OUKITEL

Model No.: C90 Pro

Family Model: C90, C90 S

Report No.: S22082604107005

Issue Date: Oct 18, 2022

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL
ZONE, GUANLAN, LONGHUA,SHENZHEN CHINA

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website: http://www.ntek.org.cn

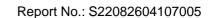
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TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA,SHENZHEN CHINA
Manufacturer's Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA,SHENZHEN CHINA
Product description	
Product name:	Smart Phone
Model and/or type reference:	C90 Pro
Family Model:	C90, C90 S
Test Sample number:	S220826041004

Measurement Procedure Used:

APPLICABLE STANDARDS					
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT				
47 CFR Part 2, Part 22H, Part 24E, Part 27					
ANSI/TIA-603-E-2016	Compliad				
FCC KDB 971168 D01 Power Meas License Digital Systems v03	Complied				
ANSI C63.26:2015					

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	Aug 26, 2022 ~ Oct 18, 2022
Testing Engineer	:	Muhri Lee
		(Mukzi Lee)
Authorized Signatory		Alex
ridinonizoa orginatory	· 	(Alex Li)

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2 SUMMARY OF TEST RESULTS

FCC Part22H / FCC Part24E / FCC Part 27 & ANSI C63.26-2015							
FCC Rule	Test Item	Verdict	Remark				
2.1046	Conducted Output Power	PASS					
Sub clause 5.2.3.4 of ANSI C63.26-2015	Peak-to-Average Ratio	PASS					
2.1049 22.917	Occupied Bandwidth	PASS					
2.1051 22.917 24.238 27.53	Band Edge	PASS					
22.913	Effective Radiated Power	PASS					
2.1053 22.917 24.238 27.53	Field Strength of Spurious Radiation	PASS					
2.1055 22.355 24.235 27.54	Frequency Stability for Temperature & Voltage	PASS					
2.1051 22.917 24.238 27.53	Conducted Emission	PASS					

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- 3. No modifications are made to the EUT during all test items.

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FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516. IC-Registration The Certificate Registration Number is 9270A-1. **FCC-** Accredited

Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

> This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

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GENERAL DESCRIPTION OF EUT

	Product Feature and Specification
Equipment	Smart Phone
Trade Mark	OUKITEL
FCC ID	2ANMU-C90PRO
Model No.	C90 Pro
Family Model	C90, C90 S
Model Difference	All the model are the same circuit and RF module, except the model name.
Operating Frequency	☐ GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; ☐ UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; ☐ PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; ☐ UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; ☐ UMTS-FDD Band IV:TX1710MHz~1755MHz /RX2110MHz~2155MHz
Modulation	☐ GMSK for GSM/GPRS; ☐ 8PSK for EGPRS; ☐ QPSK for UMTS bands;
Power Class	4, tested with power level 5(GSM 850) 1, tested with power level 0(GSM 1900) 3, tested with power control "all 1"(WCDMA Band II/IV/V)
GPRS Class	
SIM CARD	SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.
Antenna Type	PIFA Antenna
Antenna Gain	GSM 850: -2.42 dBi; PCS 1900: -3.09 dBi; Band II: -3.09 dBi; Band IV:-2.21 dBi ; Band V: -2.42 dBi;
Adapter	Model: PS20C120K1670UC Input: 100-240V~50/60Hz 0.6A Max Output: 5.0V3.0A 15.0W; 9.0V2.22A 19.98W;
Battery	DC 3.87V, 4800mAh, 18.576Wh
Power supply	DC 3.87V from battery or DC 5V from adapter
HW Version	TF968_MAIN_PCB_V1.2
SW Version	OUKITEL_C90Pro_EEA_V01

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

The High Voltage 4.2V and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

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Revision History

Report No.	Version	Description	Issued Date
S22082604107005	Rev.01	Initial issue of report	Oct 18, 2022

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DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on, GSM/GPRS/EGPRS 850. GSM/GPRS/EGPRS 1900, HSDPA band II, HSUPA band II, HSDPA band V, HSUPA band V, HSDPA band

IV, HSUPA band IV frequency band.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, HSDPA band II, HSUPA band II, HSDPA band V, HSUPA band V, HSDPA band IV, HSUPA band IV modes have been tested during the test, the worst condition (GSM850, RMC 12.2k,) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 with maximum output power.

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

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850/UMTS FDD Band V/ UMTS FDD Band IV
- 2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes						
Band	For Conducted Test Cases	For Radiated Test Cases				
GSM 850/1900	GSM Link	GSM Link				
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link				
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link				
UMTS Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link				

Test Frequency and Channels:

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Frequency	⊠G	SM 850	⊠gs	M 1900	⊠ UM	TS Band II	⊠UM⊓	ΓS Band V
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	189	836.4	661	1880.0	9400	1880.0	4182	836.4
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4

Frequency	☑ UMTS Band IV			
Band	Channel 1513 1412 1312	Frequency (MHz)		
CH_H	1513	1752.6		
CH_M	1412	1732.4		
CH_L	1312	1712.4		

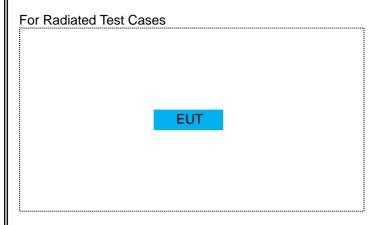
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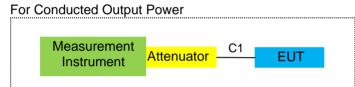




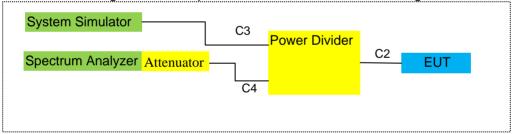
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

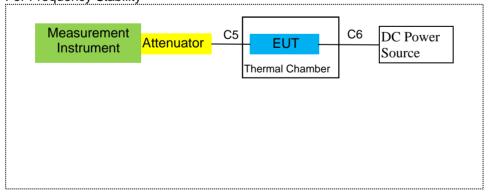




For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



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6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

toto.								
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note			

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	RF Cable	YES	NO	0.1m
C-3	RF Cable	YES	NO	0.1m
C-4	RF Cable	YES	NO	0.2m
C-5	RF Cable	YES	NO	0.2m
C-6	DC Cable	NO	NO	1.0m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022.06.16	2023.06.17	1 year
2	Test Receiver	R&S	ESPI	101318	2022.04.06	2023.04.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2023.03.30	3 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.11.07	2022.11.06	1 year
7	Amplifier	EM	EM-30180	060538	2022.06.17	2023.06.16	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2022.04.06	2023.04.05	1 year
9	Power Meter	R&S	NRVS	100696	2022.06.17	2023.06.16	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2022.04.06	2023.04.05	1 year
11	Test Cable	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
12	Test Cable	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
15	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
16	LISN	EMCO	3816/2	00042990	2022.04.06	2023.04.05	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2022.04.06	2023.04.05	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2022.04.06	2023.04.05	1 year
19	Test Cable	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
20	Test Cable	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
21	Test Cable	N/A	C03	N/A	2020.05.11	2023.05.10	3 year
22	Spectrum Analyzer	agilent	e4440a	us44300399	2022.04.01	2023.03.31	1 year
23	test receiver	R&S	ESCI	a0304218	2022.04.06	2023.04.05	1 year
24	Communication Tester	R&S	CMU200	A0304247	2022.04.06	2023.04.05	1 year
25	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2022.04.06	2023.04.05	1 year
26	DC Power Source	N/A	PS-6005D	2017040292 3	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.

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7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

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

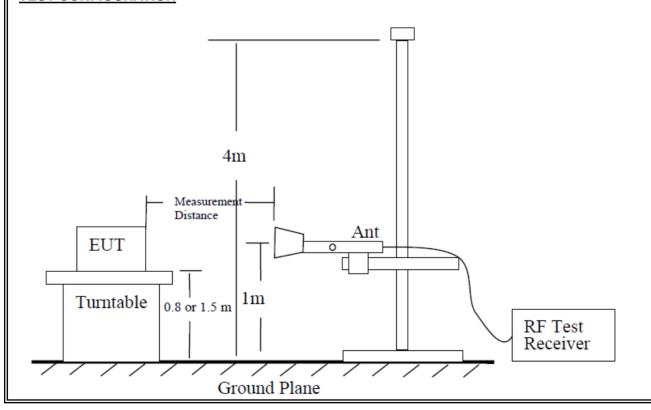
7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II/IV/V, GSM 850/1900, CDMA BC0/1.

TEST CONFIGURATION

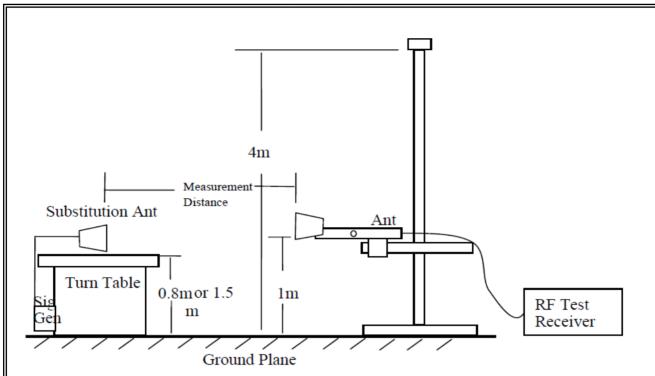


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7.1.5 Test Procedure

- 1. EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test.
 - The measurement results are obtained as described below:
 - Power(EIRP)= SG Level- Cable Loss+ Antenna Gain
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

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7.1.6 Test Results

EUT:	Smart Phone	Model No.:	C90 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	, .	Mukzi Lee

Radiated	d Spurious Er	mission									
			GSI	<i>l</i> l 850							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity				
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)					
	Test Results for Channel 128/824.2 MHz										
1648.4	-53.95	2.80	27.50	-29.25	-13	-16.25	Vertical				
1648.4	-46.41	2.80	27.50	-21.71	-13	-8.71	Horizontal				
2472.6	-44.99	2.91	27.80	-20.10	-13	-7.10	Vertical				
2472.6	-44.08	2.91	27.80	-19.19	-13	-6.19	Horizontal				
3296.8	-51.17	4.02	29.87	-25.32	-13	-12.32	Vertical				
3296.8	-47.51	4.02	29.87	-21.66	-13	-8.66	Horizontal				
195.8	-51.56	1.35	17.77	-35.14	-13	-22.14	Vertical				
439.4	-44.72	1.77	17.83	-28.66	-13	-15.66	Horizontal				
Test Results for Channel 189/836.4 MHz											
1672.8	-51.18	2.80	27.48	-26.50	-13	-13.50	Vertical				
1673.2	-51.06	2.80	27.48	-26.38	-13	-13.38	Horizontal				
2509.2	-45.63	2.91	27.70	-20.84	-13	-7.84	Vertical				
2509.2	-52.58	2.91	27.70	-27.79	-13	-14.79	Horizontal				
3345.6	-46.02	4.02	29.82	-20.22	-13	-7.22	Vertical				
3345.6	-46.53	4.02	29.82	-20.73	-13	-7.73	Horizontal				
187.6	-44.01	1.44	15.26	-30.20	-13	-17.20	Vertical				
319.5	-53.83	1.51	17.23	-38.11	-13	-25.11	Horizontal				
		Test Re	sults for Cha	annel 251/84	8.8 MHz						
1697.6	-52.67	2.80	27.42	-28.05	-13	-15.05	Vertical				
1697.6	-49.02	2.80	27.42	-24.40	-13	-11.40	Horizontal				
2546.4	-47.39	2.91	27.68	-22.62	-13	-9.62	Vertical				
2546.4	-49.33	2.91	27.68	-24.56	-13	-11.56	Horizontal				
3395.2	-51.83	4.02	29.80	-26.05	-13	-13.05	Vertical				
3395.2	-48.66	4.02	29.80	-22.88	-13	-9.88	Horizontal				
182.6	-49.34	1.74	16.46	-34.62	-13	-21.62	Vertical				
400.4	-48.83	1.68	16.21	-34.30	-13	-21.30	Horizontal				

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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			GPR	S 850			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	,
		Test Re	sults for Cha	annel 128/82	4.2 MHz		
1648.4	-50.35	2.80	27.50	-25.65	-13	-12.65	Vertical
1648.4	-45.12	2.80	27.50	-20.42	-13	-7.42	Horizontal
2472.6	-45.77	2.91	27.80	-20.88	-13	-7.88	Vertical
2472.6	-50.55	2.91	27.80	-25.66	-13	-12.66	Horizontal
3296.8	-47.53	4.02	29.87	-21.68	-13	-8.68	Vertical
3296.8	-51.44	4.02	29.87	-25.59	-13	-12.59	Horizontal
185.4	-53.4	1.35	16.91	-37.84	-13	-24.84	Vertical
372.4	-44.85	1.59	17.39	-29.04	-13	-16.04	Horizontal
Test Results for Channel 189/836.4 MHz							
1672.8	-52.27	2.80	27.48	-27.59	-13	-14.59	Vertical
1673.2	-52.69	2.80	27.48	-28.01	-13	-15.01	Horizontal
2509.2	-45.69	2.91	27.70	-20.90	-13	-7.90	Vertical
2509.2	-51.31	2.91	27.70	-26.52	-13	-13.52	Horizontal
3345.6	-47.66	4.02	29.82	-21.86	-13	-8.86	Vertical
3346.4	-44.58	4.02	29.82	-18.78	-13	-5.78	Horizontal
183.0	-49.89	1.36	17.36	-33.89	-13	-20.89	Vertical
307.1	-53.34	1.32	15.19	-39.48	-13	-26.48	Horizontal
		Test Re	sults for Cha	annel 251/84	8.8 MHz		
1697.6	-52.24	2.80	27.42	-27.62	-13	-14.62	Vertical
1697.6	-44.02	2.80	27.42	-19.40	-13	-6.40	Horizontal
2546.4	-46.73	2.91	27.68	-21.96	-13	-8.96	Vertical
2546.4	-47.91	2.91	27.68	-23.14	-13	-10.14	Horizontal
3395.2	-49.2	4.02	29.80	-23.42	-13	-10.42	Vertical
3395.2	-52.01	4.02	29.80	-26.23	-13	-13.23	Horizontal
185.8	-45.05	1.46	17.68	-28.83	-13	-15.83	Vertical
232.0	-45.49	1.31	15.79	-31.01	-13	-18.01	Horizontal

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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	_		EGPI	RS 850		_		
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	•	
		Test Re	sults for Cha	annel 128/82	4.2 MHz			
1648.4	-47.2	2.80	27.50	-22.50	-13	-9.50	Vertical	
1648.4	-45.13	2.80	27.50	-20.43	-13	-7.43	Horizontal	
2472.6	-45.01	2.91	27.80	-20.12	-13	-7.12	Vertical	
2472.6	-50.36	2.91	27.80	-25.47	-13	-12.47	Horizontal	
3296.8	-49.2	4.02	29.87	-23.35	-13	-10.35	Vertical	
3296.8	-46.63	4.02	29.87	-20.78	-13	-7.78	Horizontal	
180.4	-52.88	1.69	16.60	-37.97	-13	-24.97	Vertical	
468.6	-48.65	1.44	17.78	-32.30	-13	-19.30	Horizontal	
	Test Results for Channel 189/836.4 MHz							
1672.8	-49.62	2.80	27.48	-24.94	-13	-11.94	Vertical	
1673.2	-49.46	2.80	27.48	-24.78	-13	-11.78	Horizontal	
2509.2	-53.57	2.91	27.70	-28.78	-13	-15.78	Vertical	
2509.2	-48.21	2.91	27.70	-23.42	-13	-10.42	Horizontal	
3345.6	-45.51	4.02	29.82	-19.71	-13	-6.71	Vertical	
3346.4	-47.52	4.02	29.82	-21.72	-13	-8.72	Horizontal	
183.5	-50.72	1.54	16.14	-36.13	-13	-23.13	Vertical	
427.8	-48	1.31	17.24	-32.07	-13	-19.07	Horizontal	
		Test Re	sults for Cha	annel 251/84	8.8 MHz			
1697.6	-50	2.80	27.42	-25.38	-13	-12.38	Vertical	
1697.6	-51.64	2.80	27.42	-27.02	-13	-14.02	Horizontal	
2546.4	-51.72	2.91	27.68	-26.95	-13	-13.95	Vertical	
2546.4	-49.75	2.91	27.68	-24.98	-13	-11.98	Horizontal	
3395.2	-52.42	4.02	29.80	-26.64	-13	-13.64	Vertical	
3395.2	-46.91	4.02	29.80	-21.13	-13	-8.13	Horizontal	
181.8	-45.24	1.73	15.96	-31.01	-13	-18.01	Vertical	
260.2	-47.45	1.35	17.53	-31.27	-13	-18.27	Horizontal	

Remark

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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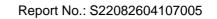


			WCDMA	Band V		WCDMA Band V										
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity									
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	·									
		Test Res	sults for Cha	nnel 4233/8	46.6MHz											
1693.2	-46.15	2.80	27.50	-21.45	-13	-8.45	Vertical									
1693.2	-52.92	2.80	27.50	-28.22	-13	-15.22	Horizontal									
2539.8	-48.16	2.91	27.80	-23.27	-13	-10.27	Vertical									
2539.8	-52.6	2.91	27.80	-27.71	-13	-14.71	Horizontal									
3386.4	-46.22	4.02	29.87	-20.37	-13	-7.37	Vertical									
3386.4	-44.65	4.02	29.87	-18.80	-13	-5.80	Horizontal									
209.5	-49.7	1.75	15.49	-35.96	-13	-22.96	Vertical									
285.8	-50.33	1.37	16.58	-35.12	-13	-22.12	Horizontal									
Test Results for Channel 4182/836.4MHz																
1672.8	-45.73	2.80	27.48	-21.05	-13	-8.05	Vertical									
1672.8	-50.61	2.80	27.48	-25.93	-13	-12.93	Horizontal									
2509.2	-47.15	2.91	27.70	-22.36	-13	-9.36	Vertical									
2509.2	-46.26	2.91	27.70	-21.47	-13	-8.47	Horizontal									
3345.6	-46.79	4.02	29.82	-20.99	-13	-7.99	Vertical									
3345.6	-44.27	4.02	29.82	-18.47	-13	-5.47	Horizontal									
193.0	-46.41	1.68	17.84	-30.25	-13	-17.25	Vertical									
448.1	-49.24	1.49	16.34	-34.38	-13	-21.38	Horizontal									
		Test Res	sults for Cha	nnel 4132/8	26.4MHz											
1652.8	-48.04	2.80	27.42	-23.42	-13	-10.42	Vertical									
1652.8	-51.67	2.80	27.42	-27.05	-13	-14.05	Horizontal									
2479.2	-44	2.91	27.68	-19.23	-13	-6.23	Vertical									
2479.2	-53.56	2.91	27.68	-28.79	-13	-15.79	Horizontal									
3305.6	-53.36	4.02	29.80	-27.58	-13	-14.58	Vertical									
3305.6	-52.71	4.02	29.80	-26.93	-13	-13.93	Horizontal									
179.0	-48.36	1.36	17.52	-32.20	-13	-19.20	Vertical									
440.2	-46.44	1.63	15.02	-33.05	-13	-20.05	Horizontal									

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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			GSN	1 1900				
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	,	
		Test Re	sults for Cha	nnel 512/18	50.2MHz	•		
3700.4	-50.18	4.04	33.51	-20.71	-13	-7.71	Vertical	
3700.4	-44.15	4.04	33.51	-14.68	-13	-1.68	Horizontal	
5550.6	-44.85	5.24	35.84	-14.25	-13	-1.25	Vertical	
5550.6	-44.65	5.24	35.84	-14.05	-13	-1.05	Horizontal	
179.5	-45.1	1.40	15.14	-31.36	-13	-18.36	Vertical	
284.6	-44.3	1.45	17.54	-28.21	-13	-15.21	Horizontal	
Test Results for Channel 661/1880.0MHz								
3760	-45.37	4.04	33.56	-15.85	-13	-2.85	Vertical	
3760	-46.72	4.04	33.56	-17.20	-13	-4.20	Horizontal	
5640	-49.79	5.24	35.91	-19.12	-13	-6.12	Vertical	
5640	-49.51	5.24	35.91	-18.84	-13	-5.84	Horizontal	
193.4	-47.19	1.74	16.40	-32.53	-13	-19.53	Vertical	
395.6	-49.98	1.42	15.72	-35.67	-13	-22.67	Horizontal	
		Test Re	sults for Cha	nnel 810/190	09.8MHz			
3819.6	-46.93	4.04	34.00	-16.97	-13	-3.97	Vertical	
3819.6	-51.6	4.04	34.00	-21.64	-13	-8.64	Horizontal	
5729.4	-47.38	5.24	36.04	-16.58	-13	-3.58	Vertical	
5729.4	-53.93	5.24	36.04	-23.13	-13	-10.13	Horizontal	
175.6	-50.45	1.67	17.51	-34.61	-13	-21.61	Vertical	
370.7	-46.25	1.58	17.73	-30.10	-13	-17.10	Horizontal	

Remark

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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			GPR	S 1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	Í
		Test Res	sults for Cha	nnel 512/18	50.2MHz		
3700.4	-49.81	4.04	33.51	-20.34	-13	-7.34	Vertical
3700.4	-51.34	4.04	33.51	-21.87	-13	-8.87	Horizontal
5550.6	-44.68	5.24	35.84	-14.08	-13	-1.08	Vertical
5550.6	-48.93	5.24	35.84	-18.33	-13	-5.33	Horizontal
199.8	-49.91	1.66	17.06	-34.52	-13	-21.52	Vertical
330.8	-50.05	1.34	15.54	-35.85	-13	-22.85	Horizontal
		Test Res	sults for Cha	innel 661/18	80.0MHz		
3760	-48.41	4.04	33.56	-18.89	-13	-5.89	Vertical
3760	-52.22	4.04	33.56	-22.70	-13	-9.70	Horizontal
5640	-48.22	5.24	35.91	-17.55	-13	-4.55	Vertical
5640	-51.78	5.24	35.91	-21.11	-13	-8.11	Horizontal
208.0	-50.91	1.33	16.18	-36.06	-13	-23.06	Vertical
408.4	-50.49	1.60	17.99	-34.10	-13	-21.10	Horizontal
		Test Res	sults for Cha	innel 810/19	09.8MHz		
3819.6	-45.56	4.04	34.00	-15.60	-13	-2.60	Vertical
3819.6	-51.21	4.04	34.00	-21.25	-13	-8.25	Horizontal
5729.4	-51.48	5.24	36.04	-20.68	-13	-7.68	Vertical
5729.4	-50.44	5.24	36.04	-19.64	-13	-6.64	Horizontal
201.8	-49.95	1.65	17.27	-34.34	-13	-21.34	Vertical
467.0	-44.87	1.39	15.49	-30.78	-13	-17.78	Horizontal

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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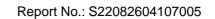


			EGPR	S 1900							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity				
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)					
	Test Results for Channel 512/1850.2MHz										
3700.4	-53.59	4.04	33.51	-24.12	-13	-11.12	Vertical				
3700.4	-48.58	4.04	33.51	-19.11	-13	-6.11	Horizontal				
5550.6	-44.1	5.24	35.84	-13.50	-13	-0.50	Vertical				
5550.6	-51.49	5.24	35.84	-20.89	-13	-7.89	Horizontal				
186.7	-50.02	1.41	17.87	-33.56	-13	-20.56	Vertical				
437.7	-45.14	1.47	17.45	-29.17	-13	-16.17	Horizontal				
	Test Results for Channel 661/1880.0MHz										
3760	-44.41	4.04	33.56	-14.89	-13	-1.89	Vertical				
3760	-45.75	4.04	33.56	-16.23	-13	-3.23	Horizontal				
5640	-47.81	5.24	35.91	-17.14	-13	-4.14	Vertical				
5640	-50.1	5.24	35.91	-19.43	-13	-6.43	Horizontal				
198.9	-48.24	1.35	15.31	-34.29	-13	-21.29	Vertical				
328.2	-44.82	1.48	17.05	-29.25	-13	-16.25	Horizontal				
		Test Res	sults for Cha	innel 810/19	09.8MHz						
3819.6	-52.6	4.04	34.00	-22.64	-13	-9.64	Vertical				
3819.6	-50.08	4.04	34.00	-20.12	-13	-7.12	Horizontal				
5729.4	-45.9	5.24	36.04	-15.10	-13	-2.10	Vertical				
5729.4	-46.48	5.24	36.04	-15.68	-13	-2.68	Horizontal				
188.3	-49.64	1.49	17.71	-33.42	-13	-20.42	Vertical				
349.2	-51.28	1.55	15.08	-37.75	-13	-24.75	Horizontal				

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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	_		WCDMA	A Band II		_		
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	,	
		Test Res	ults for Char	nnel 9262/18	52.4MHz			
3704.8	-53.01	4.04	33.51	-23.54	-13	-10.54	Vertical	
3704.8	-53.11	4.04	33.51	-23.64	-13	-10.64	Horizontal	
5557.2	-51.24	5.24	35.84	-20.64	-13	-7.64	Vertical	
5557.2	-52.52	5.24	35.84	-21.92	-13	-8.92	Horizontal	
197.2	-53.69	1.66	17.47	-37.88	-13	-24.88	Vertical	
385.3	-52.44	1.38	16.18	-37.64	-13	-24.64	Horizontal	
Test Results for Channel 9400/1880MHz								
3760	-52.52	4.04	33.56	-23.00	-13	-10.00	Vertical	
3760	-48.69	4.04	33.56	-19.17	-13	-6.17	Horizontal	
5640	-50.37	5.24	35.91	-19.70	-13	-6.70	Vertical	
5640	-49.22	5.24	35.91	-18.55	-13	-5.55	Horizontal	
175.1	-46.7	1.38	16.34	-31.74	-13	-18.74	Vertical	
275.9	-48.9	1.34	16.03	-34.21	-13	-21.21	Horizontal	
		Test Res	ults for Char	nnel 9538/19	07.6MHz			
3815.2	-44.49	4.04	34.00	-14.53	-13	-1.53	Vertical	
3815.2	-50.98	4.04	34.00	-21.02	-13	-8.02	Horizontal	
5722.8	-49.21	5.24	36.04	-18.41	-13	-5.41	Vertical	
5722.8	-47.74	5.24	36.04	-16.94	-13	-3.94	Horizontal	
205.7	-48.77	1.51	15.52	-34.76	-13	-21.76	Vertical	
258.4	-47.22	1.32	17.18	-31.37	-13	-18.37	Horizontal	

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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			WCDMA	Band IV					
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Res	ults for Char	nnel 1312/17	12.4MHz				
3424.8	-48.36	4.02	29.8	-22.58	-13	-9.58	Vertical		
3424.8	-45.08	4.02	29.8	-19.30	-13	-6.30	Horizontal		
5137.2	-45.01	5.24	35.84	-14.41	-13	-1.41	Vertical		
5137.2	-45.12	5.24	35.84	-14.52	-13	-1.52	Horizontal		
187.0	-49.84	1.66	15.00	-36.50	-13	-23.50	Vertical		
402.3	-48.8	1.58	16.20	-34.18	-13	-21.18	Horizontal		
Test Results for Channel 1412/1732.4MHz									
3464.8	-47.68	4.03	30	-21.71	-13	-8.71	Vertical		
3464.8	-51.88	4.03	30	-25.91	-13	-12.91	Horizontal		
5197.2	-48.61	5.25	35.86	-18.00	-13	-5.00	Vertical		
5197.2	-50.85	5.25	35.86	-20.24	-13	-7.24	Horizontal		
187.8	-45.14	1.55	16.39	-30.29	-13	-17.29	Vertical		
255.2	-50.36	1.32	16.25	-35.43	-13	-22.43	Horizontal		
		Test Res	ults for Char	nnel 1513/17	52.6MHz	•			
3505.2	-53.92	2.91	27.68	-29.15	-13	-16.15	Vertical		
3505.2	-52.23	2.91	27.68	-27.46	-13	-14.46	Horizontal		
5257.8	-53.07	5.26	35.86	-22.47	-13	-9.47	Vertical		
5257.8	-44.89	5.26	35.86	-14.29	-13	-1.29	Horizontal		
196.0	-50.07	1.33	15.78	-35.62	-13	-22.62	Vertical		
323.9	-47.44	1.47	17.42	-31.49	-13	-18.49	Horizontal		

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7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2.2 Conformance Limit

The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements Please refer to the section 7.1.4 in this report.

7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = SGLevel -Pcl +Ga

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as SGLevel, typically dBW or dBm);

SGLevel = Signal generator output power or PSD, in dBm or dBW;

Ga = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

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Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

ose the following spectrum analyzer settings.						
	GSM/GPRS/EGPRS	UMTS band				
Span	500KHz	10MHz				
RBW	10KHz	300KHz				
VBW	30KHz	1MHz				
Detector	RMS	RMS				
Trace	Average	Average				
Average Type	Power	Power				
Sweep Count	100	100				

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7.2.6 Test Results

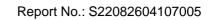
EUT:	Smart Phone	Model No.:	C90 Pro
Temperature:	120 (1)	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/UMTS band IV	Test By:	Mukzi Lee

Effective Radiated Power

	Radiated Power (ERP) for GSM850									
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	10.52	2.11	23.84	2.15	30.10	1.023293			
836.4	Н	11.29	2.13	23.15	2.15	30.16	1.037528			
848.8	Н	11.35	2.13	23.06	2.15	30.13	1.030386			
824.2	V	11.22	2.11	23.11	2.15	30.07	1.016249			
836.4	V	11.24	2.13	23.07	2.15	30.03	1.006932			
848.8	V	11.05	2.13	23.25	2.15	30.02	1.004616			

	Radiated Power (ERP) for GPRS850									
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	10.43	2.11	23.84	2.15	30.01	1.002305			
836.4	Н	11.18	2.13	23.15	2.15	30.05	1.011579			
848.8	Н	11.24	2.13	23.06	2.15	30.02	1.004616			
824.2	V	11.14	2.11	23.11	2.15	29.99	0.997700			
836.4	V	11.13	2.13	23.07	2.15	29.92	0.981748			
848.8	V	11.00	2.13	23.25	2.15	29.97	0.993116			

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	Radiated Power (ERP) for EGPRS850										
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP				
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)				
824.2	Н	3.69	2.11	23.84	2.15	23.27	0.212324				
836.4	Н	4.34	2.13	23.15	2.15	23.21	0.209411				
848.8	Н	4.50	2.13	23.06	2.15	23.28	0.212814				
824.2	V	4.37	2.11	23.11	2.15	23.22	0.209894				
836.4	V	4.42	2.13	23.07	2.15	23.21	0.209411				
848.8	V	4.29	2.13	23.25	2.15	23.26	0.211836				

1									
Radiated Power (ERP) for UMTS band V									
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
826.4	Н	0.68	2.11	23.84	2.15	20.26	0.106170		
836.4	Н	1.17	2.13	23.15	2.15	20.04	0.100925		
846.6	Н	1.24	2.13	23.06	2.15	20.02	0.100462		
826.4	V	1.32	2.11	23.11	2.15	20.17	0.103992		
836.4	V	1.15	2.13	23.07	2.15	19.94	0.098628		
846.6	V	0.92	2.13	23.25	2.15	19.89	0.097499		

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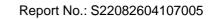


	Radiated Power (E.I.R.P) for GSM1900								
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	2.04	3.76	28.24	26.52	0.448745			
1880	Н	2.71	3.91	28.22	27.02	0.503501			
1909.8	Н	2.90	3.93	28.20	27.17	0.521195			
1850.2	V	2.86	3.76	27.32	26.42	0.438531			
1880	V	3.52	3.91	27.33	26.94	0.494311			
1909.8	V	3.69	3.93	27.31	27.07	0.509331			

	Radiated Power (E.I.R.P) for GPRS1900								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	2.02	3.76	28.24	26.50	0.446684			
1880	Н	2.69	3.91	28.22	27.00	0.501187			
1909.8	Н	2.88	3.93	28.20	27.15	0.518800			
1850.2	V	2.80	3.76	27.32	26.36	0.432514			
1880	V	3.56	3.91	27.33	26.98	0.498884			
1909.8	V	3.76	3.93	27.31	27.14	0.517607			

Radiated Power (E.I.R.P) for EGPRS1900								
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP		
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)		
1850.2	Н	-3.70	3.76	28.24	20.78	0.119674		
1880	Н	-3.40	3.91	28.22	20.91	0.123310		
1909.8	Н	-2.81	3.93	28.20	21.46	0.139959		
1850.2	V	-2.80	3.76	27.32	20.76	0.119124		
1880	V	-2.54	3.91	27.33	20.88	0.122462		
1909.8	V	-1.99	3.93	27.31	21.39	0.137721		

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	Radiated Power (E.I.R.P) for UMTS band II								
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1852.4	Н	-4.88	3.76	28.24	19.60	0.091201			
1880	Н	-4.26	3.91	28.22	20.05	0.101158			
1907.6	Н	-4.11	3.93	28.20	20.16	0.103753			
1852.4	V	-4.02	3.76	27.32	19.54	0.089950			
1880	V	-3.39	3.91	27.33	20.03	0.100693			
1907.6	V	-3.33	3.93	27.31	20.05	0.101158			

	Radiated Power (E.I.R.P) for UMTS band IV								
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1712.4	Н	-3.76	3.13	27.63	20.74	0.118577			
1732.4	Н	-3.64	3.27	27.61	20.70	0.117490			
1752.6	Н	-3.42	3.30	27.60	20.88	0.122462			
1712.4	V	-3.90	3.13	27.63	20.60	0.114815			
1732.4	V	-3.66	3.27	27.61	20.68	0.116950			
1752.6	V	-3.55	3.30	27.60	20.75	0.118850			

Note:

SG Level= Signal generator output

Pcl= cable loss

Ga= Antenna Factor

Peak EIRP(dBm)= SGLevel -Pcl +Ga

ERP(dBm)=EIRP-2.15

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7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2)) and FCC KDB 971168 D01 v03 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

For CDMA2000 Power: Maxmum output power is verified on the Low, Middle and High channels according to procedures in section 4.4.5.2.of 3GPP2 C.S0011/TIA-98-E for 1Xrtt, section 3.1.2.3.4 of 3GPP2 C.S0033-0/TIA-866 for Rel.0 and section 4.3.4 of 3GPP2 C.S0033-A for Rev.A.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency, The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW ≥ 3 × RBW.

Number of points in sweep \geq 2 × span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%

Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Measure and record the results in the test report.

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7.3.6 Test Results

EUT:	Smart Phone	Model No.:	C90 Pro
Temperature:	120°C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Mukzi Lee

Test data reference attachment

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7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing.
 Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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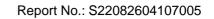




7.4.6 Test Results

EUT:	Smart Phone	Model No.:	C90 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Mukzi Lee
Results: PASS			

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Frequency Error Against Voltage for GSM 850 band(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	8.32	0.009947
3.87	6.65	0.007951
4.2	7.81	0.009338

Frequency Error Against Temperature for GSM 850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	7.42	0.008871
-20	6.28	0.007508
-10	9.94	0.011884
0	6.07	0.007257
10	9.92	0.011860
20	7.48	0.008943
30	9.01	0.010772
40	8.9	0.010641
50	9.07	0.010844

Frequency Error Against Voltage for GPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	6.82	0.008154	
3.87	8.14	0.009732	
4.2	9.3	0.011119	

Frequency Error Against Temperature for GPRS850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	4.66	0.005571
-20	8.61	0.010294
-10	8.25	0.009864
0	6.23	0.007449
10	8.34	0.009971
20	8.59	0.010270
30	9.49	0.011346
40	9.74	0.011645
50	13.26	0.015854

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Frequency Error Against Voltage for EGPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	8.19	0.009792	
3.87	9.07	0.010844	
4.2	8.39	0.010031	

Frequency Error Against Temperature for EGPRS850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	8.23	0.009840
-20	7.25	0.008668
-10	7.83	0.009362
0	6.4	0.007652
10	6.27	0.007496
20	7.14	0.008537
30	9.85	0.011777
40	7.17	0.008572
50	11.44	0.013678

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

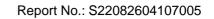
Frequency Error Against Voltage for UMTS band V(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	-18.74	0.022406
3.87	-15	0.017934
4.2	-18.04	0.021569

Frequency Error Against Temperature for UMTS band V (Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-15.82	0.018914
-20	-17.39	0.020791
-10	-16.69	0.019955
0	-16.13	0.019285
10	-18.29	0.021868
20	-19.56	0.023386
30	-19.05	0.022776
40	-18.24	0.021808
50	-20.7	0.024749

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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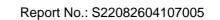
Frequency Error Against Voltage for PCS 1900 band (Mid CH)		
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)		
3.4	18.33	0.009750
3.87	16.33	0.008686
4.2	20.58	0.010947

Frequency Error Against Temperature for PCS 1900 band (Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	22.43	0.011931
-20	18.51	0.009846
-10	20.22	0.010755
0	17.37	0.009239
10	17.8	0.009468
20	18.35	0.009761
30	20.98	0.011160
40	19.76	0.010511
50	24.06	0.012798

Frequency Error Against Voltage for GPRS1900 band (Mid CH)				
Voltage (V)	Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	3.4 20.81 0.011069			
3.87	3.87 16.49 0.008771			
4.2 20.18 0.010734				

Frequency Error Against Temperature for GPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz) Frequency Error (ppm)		
-30	18.14	0.009649	
-20	18.95	0.010080	
-10	20.96	0.011149	
0	19.95	0.010612	
10	16.61	0.008835	
20	18.76	0.009979	
30	19.65	0.010452	
40	17.65	0.009388	
50	25.74	0.013691	

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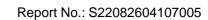
Frequency Error Against Voltage for EGPRS1900 band (Mid CH)				
-				
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)		
3.4	19.55	0.010399		
3.87	16.64	0.008851		
4.2	2 18.88 0.010043			

Frequency Error Against Temperature for EGPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	21.23	0.011293	
-20	18.75	0.009973	
-10	17.77	0.009452	
0	19.49	0.010367	
10	17.2	0.009149	
20	20.35	0.010824	
30	20.24	0.010766	
40	19.89	0.010580	
50	25.93	0.013793	

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Frequency Error Against Voltage for UMTS band II (Mid CH)				
Voltage (V)	Frequency Error (Hz) Frequency Error (ppm)			
3.4	-17.06 0.009074			
3.87	-18.38 0.009777			
4.2 -15.18 0.008074		0.008074		

Frequency Error Against Temperature for UMTS band II (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-18.96	0.010085	
-20	-15.38	0.008181	
-10	-18.38	0.009777	
0	-16.03	0.008527	
10	-15.57	0.008282	
20	-18.44	0.009809	
30	-17.35	0.009229	
40	-17.61	0.009367	
50	-24.28	0.012915	

Frequency Error Against Voltage for UMTS band IV(Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 -14.51 0.008376		0.008376	
3.87	-12.11 0.006990		
4.2 -19.14 0.011048		0.011048	

Frequency Error Against Temperature for UMTS band IV (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-7.41	0.004277	
-20	-10.72	0.006188	
-10	-13.37	0.007718	
0	-11.73	0.006771	
10	-11.8	0.006811	
20	-15.54	0.008970	
30	-17.63	0.010177	
40	-18.78	0.010840	
50	-18.09	0.010442	

Note:

- 1.
- Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to Subclause 5.2.3.4 of ANSI C63.26-2015 and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function:
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
- 1) for continuous transmissions, set to 1 ms,
- 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

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7.5.6 Test Results

EUT:	Smart Phone	Model No.:	C90 Pro
Temperature:	20 ℃	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Mukzi Lee
Results: PASS	•	•	

The Test data reference attachment:

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7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

Applicable Standard 7.6.1

According to FCC Part 2.1049 and FCC Part 22H and FCC KDB 971168 D01 Section 4

Conformance Limit 7.6.2

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 **Measuring Instruments**

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 **Test Setup**

Please refer to Section 6.1 of this test report.

7.6.5 **Test Procedure**

The testing follows FCC KDB 971168 v03 Section 4.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value - X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "-X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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7.6.6 Test Results

EUT:	Smart Phone	Model No.:	C90 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Mukzi Lee
Results: PASS			

The Test data reference attachment:

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7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and FCC KDB 971168 D01 Section6.

7.7.2 Conformance Limit

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

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The band edges of low and high channels for the highest RF powers were measured.

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.

7.7.6 Test Results

EUT:	Smart Phone	Model No.:	C90 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Mukzi Lee
Results: PASS		•	

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7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and FCC KDB 971168 D01 Section6.

7.8.2 Conformance Limit

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

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.

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7.8.6 Test Results

EUT:	Smart Phone	Model No.:	C90 Pro
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Mukzi Lee
Results: PASS			

The Test data reference attachment:

END OF REPORT

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