



# FCC RADIO TEST REPORT FCC ID: 2ABOSSKYELITEV55

**Product:** Smart Phone

Trade Mark: SKY DEVICES

Model No.: Elite V55

Family Model: N/A

Report No.: STR211119002005E

**Issue Date:** Dec 08. 2021

# **Prepared for**

SKY PHONE LLC 1348 Washington Av. Suite 350 Miami Beach Florida United States 33139

# Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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## 1 TEST RESULT CERTIFICATION

Applicant's name:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350 Miami Beach Florida United States 33139
Manufacturer's Name	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350 Miami Beach Florida United States 33139
Product description	
Product name:	Smart Phone
Model and/or type reference:	Elite V55
Family Model	N/A

#### 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	Complied		
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.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

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

Date of Test	:	Nov 19 . 2021 ~ Dec 08. 2021	
Testing Engineer	:	Mukri Lee	
		(Mukzi Lee)	
A that all Observes		Alex	
Authorized Signatory	:	(A) 1.3	
		(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					
24.232 27.50 KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS					
2.1049 22.917 24.238 KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS					
2.1051 22.917 24.238 27.53 KDB 971168 D01 Clause 6	Band Edge	PASS					
22.913 KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS					
24.232 27.50 KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS					
2.1053 22.917 24.238 27.53 KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS					
2.1055 22.355 24.235 27.54 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS					
2.1051 22.917 24.238 27.53 KDB 971168 D01 Clause 6	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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#### 3 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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## 4 GENERAL DESCRIPTION OF EUT

	Product Feature and Specification					
Equipment	Smart Phone					
Trade Mark	SKY DEVICES					
FCC ID	2ABOSSKYELITEV55					
Model No.	Elite V55					
Family Model	N/A					
Model Difference	N/A					
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						
Power Class	<ul><li>4, tested with power level 5(GSM 850)</li><li>1, tested with power level 0(GSM 1900)</li><li>3, tested with power control "all 1"(WCDMA Band II/IV/V)</li></ul>					
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	-1 dBi					
Adapter	Input: AC 100-240V~50/60Hz 0.2A Output: DC 5V==-1A					
Battery	DC 3.8V, 2000mAh, 7.6Wh					
Power supply	DC 3.8V from battery or DC 5V from Adapter.					
HW Version	1239SWF-V00					
SW Version	Elite_V55_SkyDevices_V1.0_20211202					
N . B I	oligation, features, or specification exhibited in User's Manual, the ELIT is considered					

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
STR211119002005E	Rev.01	Initial issue of report	Dec 08. 2021

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## 5 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, HSDPA band IV, HSDPA band IV frequency band.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, HSDPA band II, HSDPA band II, HSDPA band V, HSDPA band IV, HSDPA band IV, modes have been tested during the test. the worst condition 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  $\,\mathrm{IV}$  .
- 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:

	☐ GSM 850		⊠GSM 1900				⊠UMTS Band V	
Frequency 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	$oxed{oxed}$ UMTS Band ${ m IV}$				
Band	Channel	Frequency (MHz)			
CH_H	1513	1752.6			
CH_M	1413	1732.6			
CH_L	1312	1712.4			

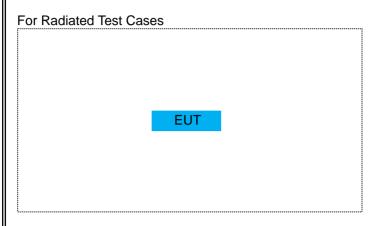
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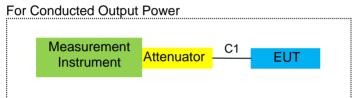




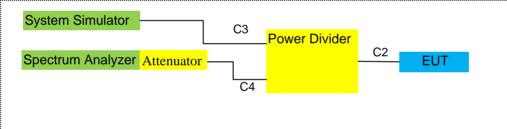
## 6 SETUP OF EQUIPMENT UNDER TEST

## 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

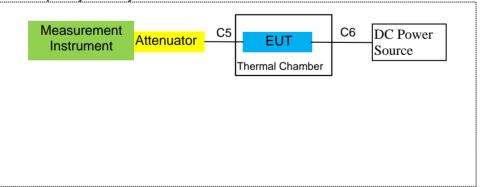




For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



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.

00.0.							
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	2021.07.01	2022.06.30	1 year
2	Test Receiver	R&S	ESPI	101318	2021.04.27	2022.04.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	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	2021.03.29	2022.03.28	3 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.07.01	2022.06.30	1 year
7	Amplifier	EM	EM-30180	060538	2021.07.01	2022.06.30	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2021.04.27	2022.04.26	1 year
9	Power Meter	R&S	NRVS	100696	2021.07.01	2022.06.30	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2021.04.27	2022.04.26	1 year
11	Test Cable	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
12	Test Cable	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable	N/A	R-03	N/A	2019.08.06	2022.08.05	3 year
14	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
15	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
16	LISN	EMCO	3816/2	00042990	2021.04.27	2022.04.26	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2021.04.27	2022.04.26	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2020.05.11	2023.05.10	3 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	2021.04.27	2022.04.26	1 year
23	test receiver	R&S	ESCI	a0304218	2021.04.27	2022.04.26	1 year
24	Communication Tester	R&S	CMU200	A0304247	2021.04.27	2022.04.26	1 year
25	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2021.04.27	2022.04.26	1 year
26	DC Power Source	N/A	PS-6005D	2017040292	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.

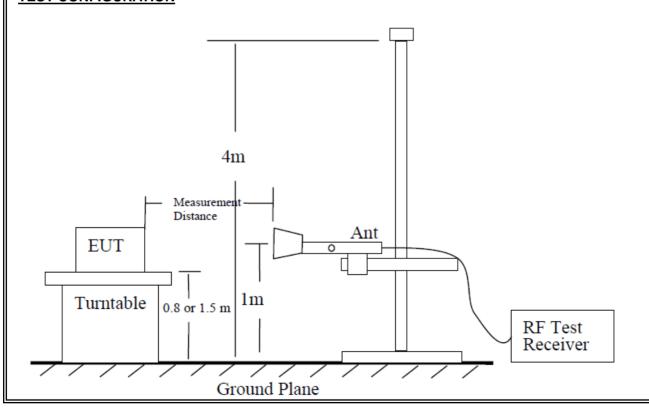
### 7.1.3 Measuring Instruments

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 / V / IV / GSM 850 / 1900.

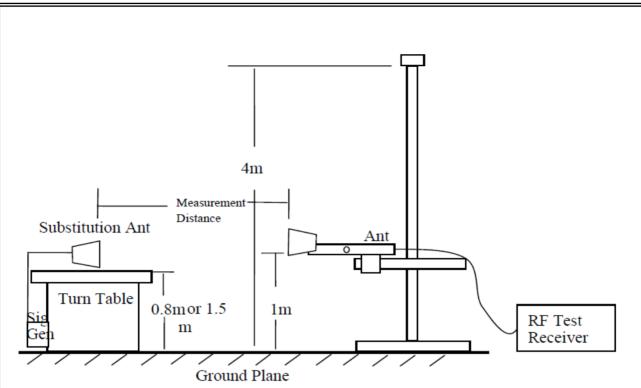
#### **TEST CONFIGURATION**



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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<sub>r</sub>).
- 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<sub>r</sub>). 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.
- 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.:	Elite V55
Temperature:	<b>20</b> ℃	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 Spurious Emission

1648.4 2472.6 2472.6 3296.8 3296.8 131.2 116.8	SG Level (dBm)	Cable Loss (dB)	Antenna Gain	Absolute	1.1						
1648.4 1648.4 2472.6 2472.6 3296.8 3296.8 131.2 116.8	(dBm)	(dB)	Juli	Level	Limit	Over Limit	Polarity				
1648.4 2472.6 2472.6 3296.8 3296.8 131.2 116.8		(45)	(dB)	(dBm)	(dBm)	(dBm)					
1648.4 2472.6 2472.6 3296.8 3296.8 131.2 116.8	Test Results for Channel 128/824.2 MHz										
2472.6 2472.6 3296.8 3296.8 131.2 116.8	-48.92	2.80	27.50	-24.22	-13	-11.22	Vertical				
2472.6 3296.8 3296.8 131.2 116.8 1673.2 1673.2	-45.94	2.80	27.50	-21.24	-13	-8.24	Horizontal				
3296.8 3296.8 131.2 116.8 1673.2 1673.2	-49.57	2.91	27.80	-24.68	-13	-11.68	Vertical				
3296.8 131.2 116.8 1673.2 1673.2	-48.41	2.91	27.80	-23.52	-13	-10.52	Horizontal				
131.2 116.8 1673.2 1673.2	-52.85	4.02	29.87	-27.00	-13	-14.00	Vertical				
116.8 1673.2 1673.2	-46.34	4.02	29.87	-20.49	-13	-7.49	Horizontal				
1673.2 1673.2	-50.41	1.35	17.77	-33.99	-13	-20.99	Vertical				
1673.2	-45.29	1.77	17.83	-29.23	-13	-16.23	Horizontal				
1673.2	Test Results for Channel 190/836.4 MHz										
	-49.99	2.80	27.48	-25.31	-13	-12.31	Vertical				
2500.8	-48.46	2.80	27.48	-23.78	-13	-10.78	Horizontal				
2309.0	-50.21	2.91	27.70	-25.42	-13	-12.42	Vertical				
2509.8	-45.08	2.91	27.70	-20.29	-13	-7.29	Horizontal				
3346.4	-51.09	4.02	29.82	-25.29	-13	-12.29	Vertical				
3346.4	-51.33	4.02	29.82	-25.53	-13	-12.53	Horizontal				
208.8	-53.11	1.44	15.26	-39.30	-13	-26.30	Vertical				
131.6	-44.96	1.51	17.23	-29.24	-13	-16.24	Horizontal				
		Test Re	sults for Ch	annel 251/8	48.8 MHz						
1697.6	-47.61	2.80	27.42	-22.99	-13	-9.99	Vertical				
1697.6	-50.47	2.80	27.42	-25.85	-13	-12.85	Horizontal				
2546.4	-53.47	2.91	27.68	-28.70	-13	-15.70	Vertical				
2546.4	-44.82	2.91	27.68	-20.05	-13	-7.05	Horizontal				
3395.2	-53.99	4.02	29.80	-28.21	-13	-15.21	Vertical				
3395.2	-53.19	4.02	29.80	-27.41	-13	-14.41	Horizontal				
95.0	-50.49	1.74	16.46	-35.77	-13	-22.77	Vertical				
208.3	-44.17	1.68	16.21	-29.64	-13	-16.64	Horizontal				

## Remark:

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

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			GPR	S 850					
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Res	sults for Cha	nnel 128/82	4.2 MHz				
1648.4	-44.56	2.80	27.50	-19.86	-13	-6.86	Vertical		
1648.4	-49.97	2.80	27.50	-25.27	-13	-12.27	Horizontal		
2472.6	-51.14	2.91	27.80	-26.25	-13	-13.25	Vertical		
2472.6	-49.26	2.91	27.80	-24.37	-13	-11.37	Horizontal		
3296.8	-44.17	4.02	29.87	-18.32	-13	-5.32	Vertical		
3296.8	-50.01	4.02	29.87	-24.16	-13	-11.16	Horizontal		
154.8	-45.7	1.35	16.91	-30.14	-13	-17.14	Vertical		
238.4	-50.24	1.59	17.39	-34.43	-13	-21.43	Horizontal		
Test Results for Channel 190/836.6 MHz									
1673.2	-48.92	2.80	27.48	-24.24	-13	-11.24	Vertical		
1673.2	-53.82	2.80	27.48	-29.14	-13	-16.14	Horizontal		
2509.8	-50.52	2.91	27.70	-25.73	-13	-12.73	Vertical		
2509.8	-50.19	2.91	27.70	-25.40	-13	-12.40	Horizontal		
3346.4	-51.22	4.02	29.82	-25.42	-13	-12.42	Vertical		
3346.4	-45.33	4.02	29.82	-19.53	-13	-6.53	Horizontal		
110.1	-48.37	1.36	17.36	-32.37	-13	-19.37	Vertical		
148.2	-48.63	1.32	15.19	-34.77	-13	-21.77	Horizontal		
		Test Res	sults for Cha	nnel 251/84	8.8 MHz				
1697.6	-45.63	2.80	27.42	-21.01	-13	-8.01	Vertical		
1697.6	-47.63	2.80	27.42	-23.01	-13	-10.01	Horizontal		
2546.4	-48.8	2.91	27.68	-24.03	-13	-11.03	Vertical		
2546.4	-53.76	2.91	27.68	-28.99	-13	-15.99	Horizontal		
3395.2	-50.67	4.02	29.80	-24.89	-13	-11.89	Vertical		
3395.2	-50.71	4.02	29.80	-24.93	-13	-11.93	Horizontal		
198.1	-46.93	1.46	17.68	-30.71	-13	-17.71	Vertical		
220.2	-46.5	1.31	15.79	-32.02	-13	-19.02	Horizontal		

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

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			EGPR	RS 850				
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
		Test Res	sults for Cha	nnel 128/82	4.2 MHz			
1648.4	-51.64	2.80	27.50	-26.94	-13	-13.94	Vertical	
1648.4	-53.01	2.80	27.50	-28.31	-13	-15.31	Horizontal	
2472.6	-47.25	2.91	27.80	-22.36	-13	-9.36	Vertical	
2472.6	-46.98	2.91	27.80	-22.09	-13	-9.09	Horizontal	
3296.8	-47.87	4.02	29.87	-22.02	-13	-9.02	Vertical	
3296.8	-53.78	4.02	29.87	-27.93	-13	-14.93	Horizontal	
116.4	-50.23	1.69	16.60	-35.32	-13	-22.32	Vertical	
166.1	-49.05	1.44	17.78	-32.70	-13	-19.70	Horizontal	
Test Results for Channel 190/836.6 MHz								
1673.2	-46.88	2.80	27.48	-22.20	-13	-9.20	Vertical	
1673.2	-46.01	2.80	27.48	-21.33	-13	-8.33	Horizontal	
2509.8	-48.45	2.91	27.70	-23.66	-13	-10.66	Vertical	
2509.8	-53.55	2.91	27.70	-28.76	-13	-15.76	Horizontal	
3346.4	-52.7	4.02	29.82	-26.90	-13	-13.90	Vertical	
3346.4	-49.13	4.02	29.82	-23.33	-13	-10.33	Horizontal	
160.1	-53.58	1.54	16.14	-38.99	-13	-25.99	Vertical	
246.5	-53.78	1.31	17.24	-37.85	-13	-24.85	Horizontal	
		Test Res	sults for Cha	nnel 251/848	8.8 MHz			
1697.6	-44.74	2.80	27.42	-20.12	-13	-7.12	Vertical	
1697.6	-48.07	2.80	27.42	-23.45	-13	-10.45	Horizontal	
2546.4	-48.5	2.91	27.68	-23.73	-13	-10.73	Vertical	
2546.4	-45.02	2.91	27.68	-20.25	-13	-7.25	Horizontal	
3395.2	-50.92	4.02	29.80	-25.14	-13	-12.14	Vertical	
3395.2	-54	4.02	29.80	-28.22	-13	-15.22	Horizontal	
272.1	-50.09	1.73	15.96	-35.86	-13	-22.86	Vertical	
163.9	-44.95	1.35	17.53	-28.77	-13	-15.77	Horizontal	

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

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			WCDMA	Band V					
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	•		
		Test Res	ults for Cha	nnel 4233/84	16.6MHz				
1693.2	-47.06	2.80	27.50	-22.36	-13	-9.36	Vertical		
1693.2	-44.26	2.80	27.50	-19.56	-13	-6.56	Horizontal		
2539.8	-46.78	2.91	27.80	-21.89	-13	-8.89	Vertical		
2539.8	-45.3	2.91	27.80	-20.41	-13	-7.41	Horizontal		
3386.4	-51.13	4.02	29.87	-25.28	-13	-12.28	Vertical		
3386.4	-50.12	4.02	29.87	-24.27	-13	-11.27	Horizontal		
264.3	-49.18	1.75	15.49	-35.44	-13	-22.44	Vertical		
209.9	-53.34	1.37	16.58	-38.13	-13	-25.13	Horizontal		
Test Results for Channel 4182/836.4MHz									
1672.8	-53.75	2.80	27.48	-29.07	-13	-16.07	Vertical		
1672.8	-51.24	2.80	27.48	-26.56	-13	-13.56	Horizontal		
2509.2	-44.12	2.91	27.70	-19.33	-13	-6.33	Vertical		
2509.2	-50.57	2.91	27.70	-25.78	-13	-12.78	Horizontal		
3345.6	-52.43	4.02	29.82	-26.63	-13	-13.63	Vertical		
3345.6	-44.61	4.02	29.82	-18.81	-13	-5.81	Horizontal		
255.8	-47.87	1.68	17.84	-31.71	-13	-18.71	Vertical		
129.8	-51.43	1.49	16.34	-36.57	-13	-23.57	Horizontal		
		Test Res	ults for Cha	nnel 4132/82	26.4MHz				
1652.8	-53.78	2.80	27.42	-29.16	-13	-16.16	Vertical		
1652.8	-52.39	2.80	27.42	-27.77	-13	-14.77	Horizontal		
2479.2	-45.99	2.91	27.68	-21.22	-13	-8.22	Vertical		
2479.2	-52.3	2.91	27.68	-27.53	-13	-14.53	Horizontal		
3305.6	-46.69	4.02	29.80	-20.91	-13	-7.91	Vertical		
3305.6	-52.29	4.02	29.80	-26.51	-13	-13.51	Horizontal		
135.6	-48.24	1.36	17.52	-32.08	-13	-19.08	Vertical		
190.6	-44.6	1.63	15.02	-31.21	-13	-18.21	Horizontal		

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

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			GSN	<b>1</b> 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	-49.65	4.04	33.51	-20.18	-13	-7.18	Vertical		
3700.4	-49.7	4.04	33.51	-20.23	-13	-7.23	Horizontal		
5550.6	-47.07	5.24	35.84	-16.47	-13	-3.47	Vertical		
5550.6	-52.75	5.24	35.84	-22.15	-13	-9.15	Horizontal		
105.3	-44.66	1.40	15.14	-30.92	-13	-17.92	Vertical		
247.6	-45.79	1.45	17.54	-29.70	-13	-16.70	Horizontal		
Test Results for Channel 661/1880.0MHz									
3760	-51.58	4.04	33.56	-22.06	-13	-9.06	Vertical		
3760	-47.48	4.04	33.56	-17.96	-13	-4.96	Horizontal		
5640	-47.28	5.24	35.91	-16.61	-13	-3.61	Vertical		
5640	-51.74	5.24	35.91	-21.07	-13	-8.07	Horizontal		
187.9	-49.23	1.74	16.40	-34.57	-13	-21.57	Vertical		
86.7	-44.64	1.42	15.72	-30.33	-13	-17.33	Horizontal		
		Test Re	sults for Cha	nnel 810/19	09.8MHz				
3819.6	-45.19	4.04	34.00	-15.23	-13	-2.23	Vertical		
3819.6	-45.85	4.04	34.00	-15.89	-13	-2.89	Horizontal		
5729.4	-51.25	5.24	36.04	-20.45	-13	-7.45	Vertical		
5729.4	-53.71	5.24	36.04	-22.91	-13	-9.91	Horizontal		
217.3	-48.33	1.67	17.51	-32.49	-13	-19.49	Vertical		
112.7	-53.54	1.58	17.73	-37.39	-13	-24.39	Horizontal		

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute 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)			
		Test Re	sults for Cha	nnel 512/18	50.2MHz	•			
3700.4	-47.48	4.04	33.51	-18.01	-13	-5.01	Vertical		
3700.4	-44.11	4.04	33.51	-14.64	-13	-1.64	Horizontal		
5550.6	-49.71	5.24	35.84	-19.11	-13	-6.11	Vertical		
5550.6	-51.88	5.24	35.84	-21.28	-13	-8.28	Horizontal		
249.9	-53.83	1.66	17.06	-38.44	-13	-25.44	Vertical		
237.9	-53.55	1.34	15.54	-39.35	-13	-26.35	Horizontal		
Test Results for Channel 661/1880.0MHz									
3760	-51.57	4.04	33.56	-22.05	-13	-9.05	Vertical		
3760	-44.13	4.04	33.56	-14.61	-13	-1.61	Horizontal		
5640	-48.69	5.24	35.91	-18.02	-13	-5.02	Vertical		
5640	-51.87	5.24	35.91	-21.20	-13	-8.20	Horizontal		
168.5	-52.97	1.33	16.18	-38.12	-13	-25.12	Vertical		
249.4	-53.02	1.60	17.99	-36.63	-13	-23.63	Horizontal		
		Test Re	sults for Cha	nnel 810/19	09.8MHz				
3819.6	-49.27	4.04	34.00	-19.31	-13	-6.31	Vertical		
3819.6	-44.93	4.04	34.00	-14.97	-13	-1.97	Horizontal		
5729.4	-53.28	5.24	36.04	-22.48	-13	-9.48	Vertical		
5729.4	-53.12	5.24	36.04	-22.32	-13	-9.32	Horizontal		
206.6	-44.85	1.65	17.27	-29.24	-13	-16.24	Vertical		
227.8	-48.97	1.39	15.49	-34.88	-13	-21.88	Horizontal		

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

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			EGPR	RS 1900				
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 512/18	50.2MHz			
3700.4	-52.21	4.04	33.51	-22.74	-13	-9.74	Vertical	
3700.4	-53.24	4.04	33.51	-23.77	-13	-10.77	Horizontal	
5550.6	-48.78	5.24	35.84	-18.18	-13	-5.18	Vertical	
5550.6	-52.6	5.24	35.84	-22.00	-13	-9.00	Horizontal	
224.9	-53.13	1.41	17.87	-36.67	-13	-23.67	Vertical	
105.4	-46.33	1.47	17.45	-30.36	-13	-17.36	Horizontal	
Test Results for Channel 661/1880.0MHz								
3760	-52.42	4.04	33.56	-22.90	-13	-9.90	Vertical	
3760	-53.13	4.04	33.56	-23.61	-13	-10.61	Horizontal	
5640	-49.95	5.24	35.91	-19.28	-13	-6.28	Vertical	
5640	-46.07	5.24	35.91	-15.40	-13	-2.40	Horizontal	
110.0	-50.77	1.35	15.31	-36.82	-13	-23.82	Vertical	
231.5	-47.62	1.48	17.05	-32.05	-13	-19.05	Horizontal	
		Test Res	sults for Cha	nnel 810/19	09.8MHz			
3819.6	-53.65	4.04	34.00	-23.69	-13	-10.69	Vertical	
3819.6	-48.6	4.04	34.00	-18.64	-13	-5.64	Horizontal	
5729.4	-53.56	5.24	36.04	-22.76	-13	-9.76	Vertical	
5729.4	-50.29	5.24	36.04	-19.49	-13	-6.49	Horizontal	
156.0	-52.8	1.49	17.71	-36.58	-13	-23.58	Vertical	
144.9	-47.45	1.55	15.08	-33.92	-13	-20.92	Horizontal	

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute 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 Cha	nnel 9262/18	352.4MHz					
3704.8	-45.91	4.04	33.51	-16.44	-13	-3.44	Vertical			
3704.8	-51.04	4.04	33.51	-21.57	-13	-8.57	Horizontal			
5557.2	-49.94	5.24	35.84	-19.34	-13	-6.34	Vertical			
5557.2	-47.42	5.24	35.84	-16.82	-13	-3.82	Horizontal			
91.6	-52.46	1.66	17.47	-36.65	-13	-23.65	Vertical			
104.4	-44.21	1.38	16.18	-29.41	-13	-16.41	Horizontal			
	Test Results for Channel 9400/1880MHz									
3760	-50.13	4.04	33.56	-20.61	-13	-7.61	Vertical			
3760	-44.65	4.04	33.56	-15.13	-13	-2.13	Horizontal			
5640	-47.16	5.24	35.91	-16.49	-13	-3.49	Vertical			
5640	-47.02	5.24	35.91	-16.35	-13	-3.35	Horizontal			
121.2	-48.11	1.38	16.34	-33.15	-13	-20.15	Vertical			
167.8	-50.04	1.34	16.03	-35.35	-13	-22.35	Horizontal			
		Test Res	ults for Cha	nnel 9538/19	07.6MHz					
3815.2	-46.22	4.04	34.00	-16.26	-13	-3.26	Vertical			
3815.2	-47.07	4.04	34.00	-17.11	-13	-4.11	Horizontal			
5722.8	-49.57	5.24	36.04	-18.77	-13	-5.77	Vertical			
5722.8	-50.72	5.24	36.04	-19.92	-13	-6.92	Horizontal			
135.9	-44.2	1.51	15.52	-30.19	-13	-17.19	Vertical			
247.5	-52.38	1.32	17.18	-36.53	-13	-23.53	Horizontal			

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute 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 Cha	nnel 1312/17	12.4MHz					
3424.8	-47.83	4.02	29.80	-22.05	-13	-9.05	Vertical			
3424.8	-45.2	4.02	29.80	-19.42	-13	-6.42	Horizontal			
5137.2	-53.68	5.24	35.84	-23.08	-13	-10.08	Vertical			
5137.2	-47.88	5.24	35.84	-17.28	-13	-4.28	Horizontal			
81.8	-53.75	1.66	15.00	-40.41	-13	-27.41	Vertical			
115.1	-46.86	1.58	16.20	-32.24	-13	-19.24	Horizontal			
	Test Results for Channel 1413/1732.6MHz									
3464.8	-44.16	4.03	30.00	-18.19	-13	-5.19	Vertical			
3464.8	-45.78	4.03	30.00	-19.81	-13	-6.81	Horizontal			
5197.2	-51.54	5.25	35.86	-20.93	-13	-7.93	Vertical			
5197.2	-47.99	5.25	35.86	-17.38	-13	-4.38	Horizontal			
246.8	-48.72	1.55	16.39	-33.87	-13	-20.87	Vertical			
101.0	-45.48	1.32	16.25	-30.55	-13	-17.55	Horizontal			
		Test Res	ults for Cha	nnel 1513/17	752.6MHz					
3505.2	-49.38	2.91	27.68	-24.61	-13	-11.61	Vertical			
3505.2	-53.29	2.91	27.68	-28.52	-13	-15.52	Horizontal			
5257.8	-44.33	5.26	35.86	-13.73	-13	-0.73	Vertical			
5257.8	-53.09	5.26	35.86	-22.49	-13	-9.49	Horizontal			
199.0	-44.1	1.33	15.78	-29.65	-13	-16.65	Vertical			
193.1	-51.66	1.47	17.42	-35.71	-13	-22.71	Horizontal			

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

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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 v03r01. 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) and the EIRP of mobile transmitters are limited to 1 Watts (AWS 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.<sup>2</sup>

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/ CDMA2000					
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.:	Elite V55
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

# ■ Effective Radiated Power

Radiated Power (ERP) for GSM850									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	10.94	2.11	23.84	2.15	30.52	1.127197		
836.6	Н	11.50	2.13	23.15	2.15	30.37	1.088930		
848.8	Н	11.76	2.13	23.06	2.15	30.54	1.132400		
824.2	V	11.54	2.11	23.11	2.15	30.39	1.093956		
836.6	V	11.52	2.13	23.07	2.15	30.31	1.073989		
848.8	V	11.52	2.13	23.25	2.15	30.49	1.119438		

Radiated Power (ERP) for GPRS850									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	11.11	2.11	23.84	2.15	30.69	1.172195		
836.6	Н	11.70	2.13	23.15	2.15	30.57	1.140250		
848.8	Н	11.94	2.13	23.06	2.15	30.72	1.180321		
824.2	V	11.82	2.11	23.11	2.15	30.67	1.166810		
836.6	V	11.74	2.13	23.07	2.15	30.53	1.129796		
848.8	V	11.74	2.13	23.25	2.15	30.71	1.177606		

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	Radiated Power (ERP) for EGPRS850									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
(IVII IZ)		(ubiii)	(ub)	(ub)	(ub)	(ubiii)	(۷۷)			
824.2	Н	4.65	2.11	23.84	2.15	24.23	0.264850			
836.6	Н	4.84	2.13	23.15	2.15	23.71	0.234963			
848.8	Н	5.29	2.13	23.06	2.15	24.07	0.255270			
824.2	V	5.28	2.11	23.11	2.15	24.13	0.258821			
836.6	V	4.78	2.13	23.07	2.15	23.57	0.227510			
848.8	V	4.96	2.13	23.25	2.15	23.93	0.247172			

Radiated Power (ERP) for UMTS band V									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
826.4	Н	2.13	2.11	23.84	2.15	21.71	0.148252		
835	Н	2.65	2.13	23.15	2.15	21.52	0.141906		
846.6	Н	2.72	2.13	23.06	2.15	21.50	0.141254		
826.4	V	2.83	2.11	23.11	2.15	21.68	0.147231		
835	V	2.62	2.13	23.07	2.15	21.41	0.138357		
846.6	V	2.44	2.13	23.25	2.15	21.41	0.138357		

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Padiated Power (E.I.P.D) for CSM1000									
	Radiated Power (E.I.R.P) for GSM1900								
Frequency	Polarization	SG	Pcl	Ga Antenna	EIRP	EIRP			
	. olanzation	Level		Gain					
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	3.74	3.76	28.24	28.22	0.663743			
1880	Н	3.57	3.91	28.22	27.88	0.613762			
1909.8	Н	3.24	3.93	28.20	27.51	0.563638			
1850.2	V	4.60	3.76	27.32	28.16	0.654636			
1880	V	4.44	3.91	27.33	27.86	0.610942			
1909.8	V	4.13	3.93	27.31	27.51	0.563638			

	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	3.90	3.76	28.24	28.38	0.688652			
1880	Н	3.71	3.91	28.22	28.02	0.633870			
1909.8	Н	3.44	3.93	28.20	27.71	0.590201			
1850.2	V	4.68	3.76	27.32	28.24	0.666807			
1880	V	4.54	3.91	27.33	27.96	0.625173			
1909.8	V	4.24	3.93	27.31	27.62	0.578096			

	Radiated Power (E.I.R.P) for EGPRS1900								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	-0.02	3.76	28.24	24.46	0.279254			
1880	Н	-0.55	3.91	28.22	23.76	0.237684			
1909.8	Н	-0.86	3.93	28.20	23.41	0.219280			
1850.2	V	0.83	3.76	27.32	24.39	0.274789			
1880	V	0.32	3.91	27.33	23.74	0.236592			
1909.8	V	-0.01	3.93	27.31	23.37	0.217270			

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	Radiated Power (E.I.R.P) for UMTS band II								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1852.4	Н	-3.59	3.76	28.24	20.89	0.122744			
1880	Н	-3.20	3.91	28.22	21.11	0.129122			
1907.6	Н	-3.27	3.93	28.20	21.00	0.125893			
1852.4	V	-2.75	3.76	27.32	20.81	0.120504			
1880	V	-2.46	3.91	27.33	20.96	0.124738			
1907.6	V	-2.48	3.93	27.31	20.90	0.123027			

	Radiated Power (E.I.R.P) for UMTS band IV								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1712.4	Н	-2.75	3.13	27.63	21.75	0.149624			
1732.4	Н	-2.71	3.27	27.61	21.63	0.145546			
1752.6	Н	-2.64	3.30	27.60	21.66	0.146555			
1712.4	V	-2.77	3.13	27.63	21.73	0.148936			
1732.4	V	-2.77	3.27	27.61	21.57	0.143549			
1752.6	V	-2.69	3.30	27.60	21.61	0.144877			

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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..

## 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  $\geq 2 \times \text{span} / \text{RBW}$ . (This gives bin-to-bin spacing  $\leq \text{RBW}/2$ , 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.:	Elite V55
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 ±0.00025% (±2.5ppm) 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 CMW500 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.
- 3. 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.
- 2. 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.

#### 7.4.6 Test Results

EUT:	Smart Phone	Model No.:	Elite V55
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	7.33	0.008764
3.8	9.45	0.011298
4.2	9.73	0.011633

Frequency Error Against Temperature for GSM 850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	4.3	0.005141	
-20	8.99	0.010748	
-10	6.63	0.007927	
0	6.72	0.008034	
10	7.52	0.008991	
20	6.15	0.007353	
30	8.04	0.009613	
40	7.6	0.009087	
50	11.69	0.013977	

Frequency Error Against Voltage for GPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	9.68	0.011573	
3.8	6.26	0.007484	
4.2	8.42	0.010067	

Frequency Error Against Temperature for GPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	4.42	0.005285	
-20	8.49	0.010151	
-10	6.08	0.007269	
0	6.14	0.007341	
10	6.74	0.008058	
20	7.22	0.008632	
30	8.84	0.010569	
40	9.46	0.011310	
50	10.96	0.013104	

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Frequency Error Against Voltage for EGPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	6.9	0.008250	
3.8	8.45	0.010103	
4.2	6.02	0.007198	

Frequency Error Against Temperature for EGPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	8.11	0.009696	
-20	7.91	0.009457	
-10	8.65	0.010342	
0	6.31	0.007544	
10	6.25	0.007473	
20	6.17	0.007377	
30	9.12	0.010904	
40	8.06	0.009637	
50	12.95	0.015483	

#### Note:

- 1. Normal Voltage = 3.8V; 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	-16.22	0.019393	
3.8	-15.01	0.017946	
4.2	-19.61	0.023446	

Frequency Error Against Temperature for UMTS band V (Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-15.62	0.018675
-20	-16.4	0.019608
-10	-16.98	0.020301
0	-16.4	0.019608
10	-19.83	0.023709
20	-17.21	0.020576
30	-19.53	0.023350
40	-17.32	0.020708
50	-23.03	0.027535

#### Note:

- 1. Normal Voltage = 3.8V; 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	18.45	0.009814	
3.8	19.25	0.010239	
4.2	17.74	0.009436	

Frequency Error Against Temperature for PCS 1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	17.67	0.009399	
-20	20.35	0.010824	
-10	19.12	0.010170	
0	19.34	0.010287	
10	16.37	0.008707	
20	18.15	0.009654	
30	19.28	0.010255	
40	19.05	0.010133	
50	24.95	0.013271	

Frequency Error Against Voltage for GPRS1900 band (Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	3.4 18.12 0.009638		
3.8	3.8 19.86 0.010564		
4.2 16.42 0.008734		0.008734	

Frequency Error Against Temperature for GPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	20.41	0.010856	
-20	17.54	0.009330	
-10	19.76	0.010511	
0	17.34	0.009223	
10	16.21	0.008622	
20	20.53	0.010920	
30	19.96	0.010617	
40	16.68	0.008872	
50	24.27	0.012910	

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Frequency Error Against Voltage for EGPRS1900 band (Mid CH)				
Voltage (V)	Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	16.68 0.008872			
3.8	18.95	0.010080		
4.2	4.2 18.45 0.009814			

Frequency Error Against Temperature for EGPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	18.79	0.009995	
-20	17.09	0.009090	
-10	17.94	0.009543	
0	20.45	0.010878	
10	18.52	0.009851	
20	19.76	0.010511	
30	20.85	0.011090	
40	20	0.010638	
50	25.06	0.013330	

## Note:

- 1. Normal Voltage = 3.8V; 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 -19.84 0.010553		0.010553		
3.8	3.8 -17.96 0.009553			
4.2 -17.81 0.009473				

Frequency Error Against Temperature for UMTS band II (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-15.5	0.008245	
-20	-15.62	0.008309	
-10	-17.08	0.009085	
0	-17.61	0.009367	
10	-18.03	0.009590	
20	-16.43	0.008739	
30	-17.12	0.009106	
40	-19.45	0.010346	
50	-19.79	0.010527	

Frequency Error Against Voltage for UMTS band IV(Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 -18.3 0.010563			
3.8 -14.49 0.008364		0.008364	
4.2 -17.81 0.010281		0.010281	

Frequency Error Against Temperature for UMTS band IV (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-6.32	0.003648	
-20	-10.17	0.005870	
-10	-12.27	0.007083	
0	-9.47	0.005466	
10	-15.48	0.008936	
20	-16.84	0.009721	
30	-16.19	0.009345	
40	-17.71	0.010223	
50	-23.96	0.013831	

## Note:

- 1. Normal Voltage = 3.8V; 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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#### 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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Report No.: STR211119002005E

## 7.5.6 Test Results

EUT:	Smart Phone	Model No.:	Elite V55
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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#### 7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

#### 7.6.1 Applicable Standard

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

#### 7.6.2 Conformance Limit

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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Report No.: STR211119002005E

## 7.6.6 Test Results

EUT:	Smart Phone	Model No.:	Elite V55
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.:	Elite V55
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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#### 7.8 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.:	Elite V55
Temperature:	<b>20</b> ℃	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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