

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200710603V01

FCC REPORT (BLE)

Applicant: SKY PHONE LLC

Address of Applicant: 1348 Washington Av. Suite 350, Miami Beach, FL 33139

Equipment Under Test (EUT)

Product Name: 4G Smartphone

Model No.: Elite P55

Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYELITEP55

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 28 Jul., 2020

Date of Test: 29 Jul., to 04 Sep., 2020

Date of report issued: 04 Sep., 2020

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	19 Aug., 2020	Original
01	04 Sep., 2020	Added Duty Cycle test chart in Chapter 6.3

Tested by: _____ Date: _____ 04 Sep., 2020

Reviewed by:

Winner Thang

Date: 04 Sep., 2020

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (b)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 & 15.209	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013
KDB 558074 D01 15.247 Meas Guidance v05r02



5 General Information

5.1 Client Information

Applicant:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL 33139

5.2 General Description of E.U.T.

Product Name:	4G Smartphone
Model No.:	Elite P55
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	0.46 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2500mAh
AC adapter:	Input: AC100-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 1.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.



5.3 Test environment and mode, and test samples plans

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation

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Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

Nc

5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

A2LA - Registration No.: 4346.01

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. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
SIII SAC	SALIVIC	9111 6111 6111	900	07-22-2020	07-21-2023
Loop Antenna	SCHWARZBECK	FMZB1519B	044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Llawa Antonna	CCLIMA DZDECK	DDLLAGAGOD	4005	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-20-2020	06-19-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b)
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
1.101	Dahala 0 Oahaaa	F0110.75	0.400004/040	07-21-2017	07-20-2020
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2023
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	\	ersion: 6.110919l)



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Pa

FCC Part 15 C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is 0.46 dBi.





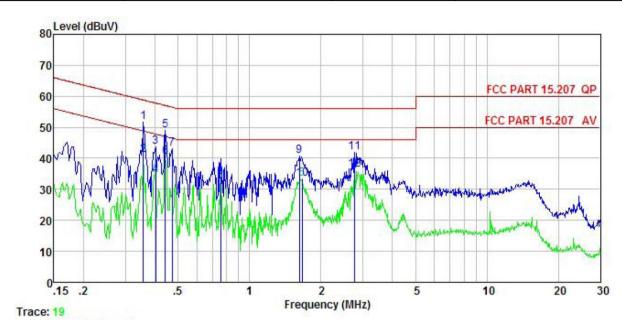
6.2 Conducted Emission

T (D :)	E00 B. (45 0 0 . (5) 45 00	,			
Test Requirement:		FCC Part 15 C Section 15.207			
Test Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Frequency range (MHz)	Limit (dBuV)		
		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm				
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. 				
Test setup:	Reference Plane				
	AUX Equipment E.U.T Test table/Insulation plane Remark: E.U.T. Equipment Under Test	BMI Receiver	– AC power		
Total looks and a	LISN: Line Impedence Stabilization Ne. Test table height=0.8m				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				



Measurement Data:

Product name:	4G Smartphone	Product model:	Elite P55
Test by:	YT	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



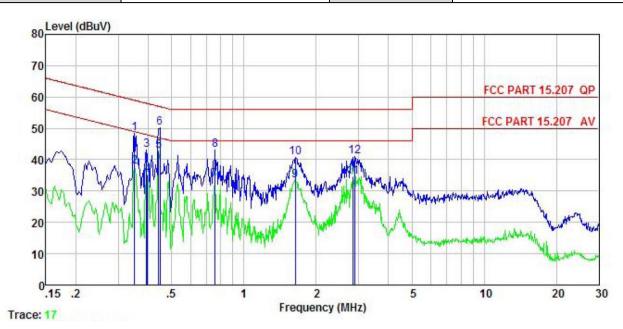
	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∇	<u>ab</u>		<u>d</u> B	dBu₹	dBu₹	<u>d</u> B	
1	0.358	41.30	-0.51	10.73	0.16	51.68	58.78	-7.10	QP
1 2 3	0.358	30.79	-0.51	10.73	0.16	41.17	48.78	-7.61	Average
3	0.402	32.97	-0.48	10.72	0.42	43.63	57.81	-14.18	QP
4 5 6 7	0.402	23.92	-0.48	10.72	0.42	34.58	47.81	-13.23	Average
5	0.442	38.57	-0.46	10.74	0.08	48.93	57.02	-8.09	QP
6	0.442	29.94	-0.46	10.74	0.08	40.30	47.02	-6.72	Average
7	0.471	32.86	-0.44	10.75	-0.15	43.02	56.49	-13.47	
8	0.755	24.02	-0.55	10.79	-0.22	34.04	46.00	-11.96	Average
8	1.619	30.39	-0.54	10.93	-0.08	40.70		-15.30	
10	1.662	23.00	-0.54	10.94	-0.11	33.29	46.00	-12.71	Average
11	2.765	31.53	-0.45	10.93	-0.23	41.78		-14.22	
12	2.779	26.07	-0.44	10.93	-0.23	36.33	46.00	-9.67	Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



Product name:	4G Smartphone	Product model:	Elite P55
Test by:	YT	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



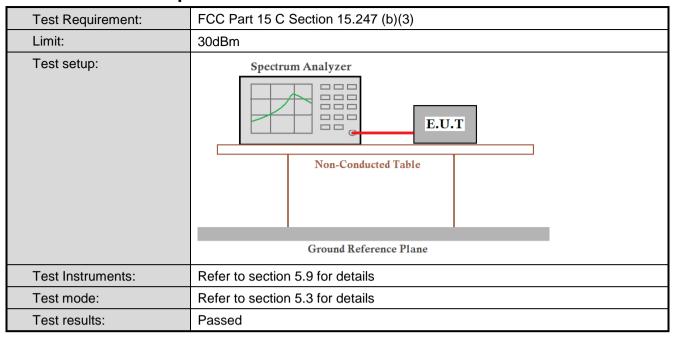
	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
•	MHz	dBu∀	₫B	₫B	dB	dBu₹	dBu₹	<u>d</u> B	
1 2 3 4 5 6 7 8 9	0.350	38.45	-0.65	10.73	-0.03	48.50		-10.46	A STATE OF THE PARTY OF THE PAR
2	0.350	27.67	-0.65	10.73	-0.03	37.72	48.96	-11.24	Average
3	0.393	32.95	-0.63	10.72	-0.06	42.98	57.99	-15.01	QP
4	0.398	24.95	-0.63	10.72	-0.06	34.98	47.90	-12.92	Average
5	0.442	32.61	-0.64	10.74	-0.02	42.69	47.02		Average
6	0.447	40.06	-0.64	10.74		50.14	56.93	-6.79	QP
7	0.755	23.54	-0.65	10.79	0.05	33.73	46.00	-12.27	Average
8	0.759	32.78	-0.65	10.80	0.05	42.98		-13.02	
9	1.636	23.05	-0.70	10.93	0.14	33.42	46.00	-12.58	Average
10	1.645	30.28	-0.70	10.93	0.14	40.65		-15.35	
11	2.839	24.04	-0.66	10.93	0.29	34.60			Average
12	2.900	30.56	-0.65	10.92	0.30	41.13		-14.87	

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



6.3 Conducted Output Power



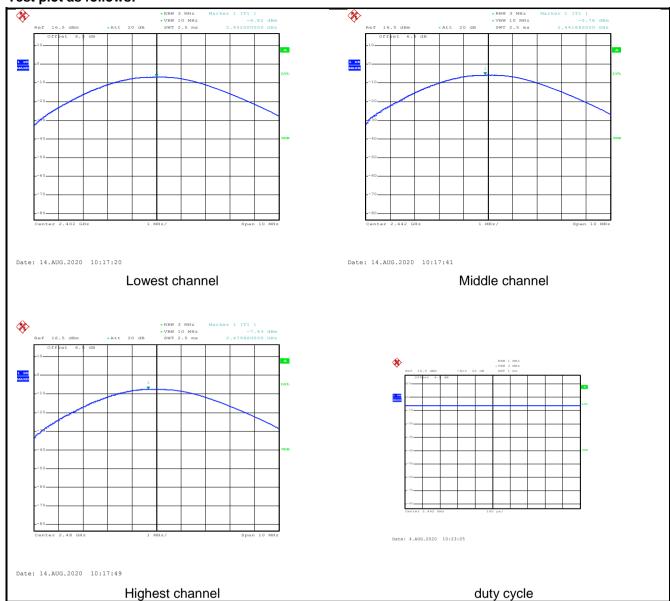
Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result	
Lowest	-6.82			
Middle	-5.78	30.00	Pass	
Highest	-7.43			

duty cycle					
Test CH\mode	GFSK				
Middle	100%				

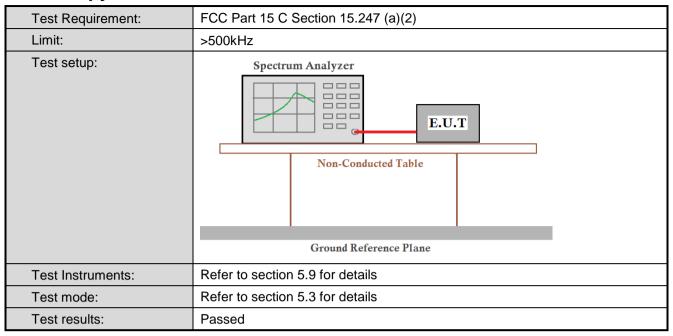


Test plot as follows:





6.4 Occupy Bandwidth

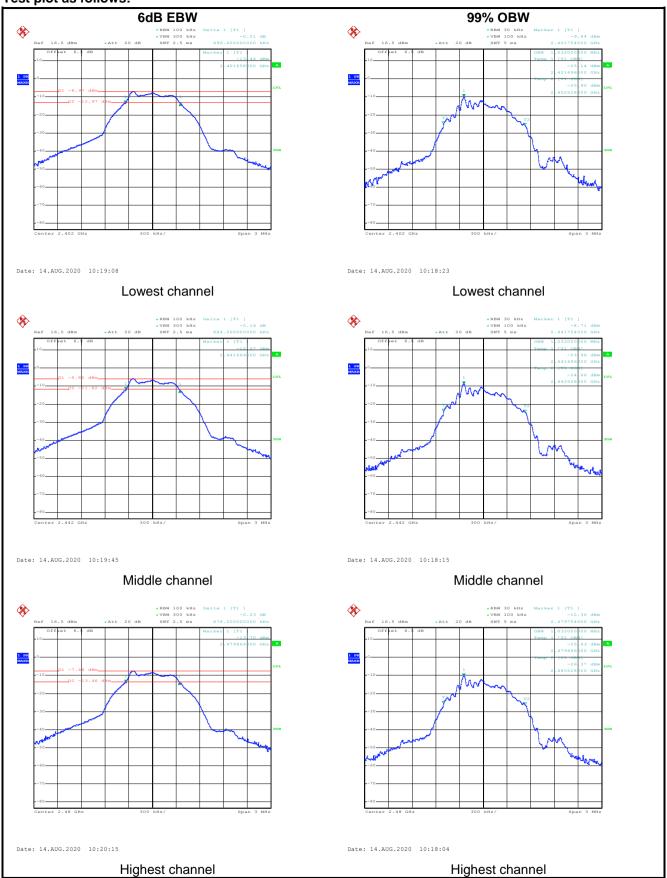


Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.696			
Middle	0.684	>500	Pass	
Highest	0.678			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.032			
Middle	Middle 1.032		N/A	
Highest	1.032			



Test plot as follows:





6.5 Power Spectral Density

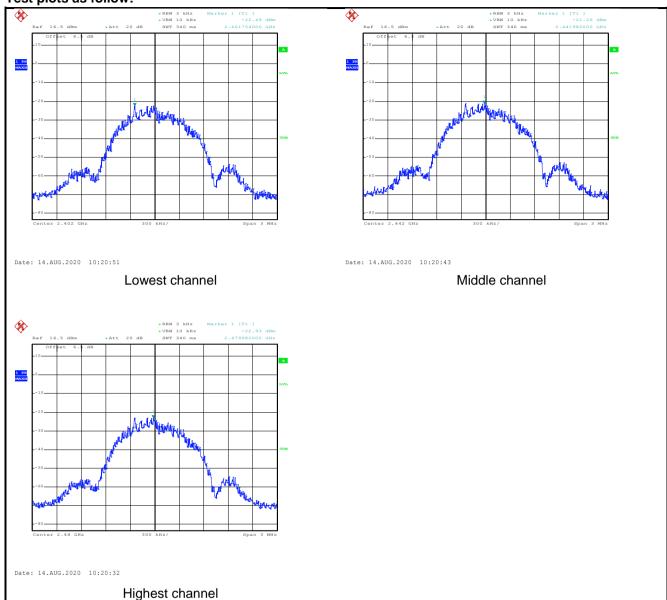
Test Requirement:	FCC Part 15 C Section 15.247 (e)				
Limit:	8 dBm/3kHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data:

modedi omont Bata.				
Test CH	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result	
Lowest	-22.49			
Middle	-21.26	8.00	Pass	
Highest	-22.93			



Test plots as follow:





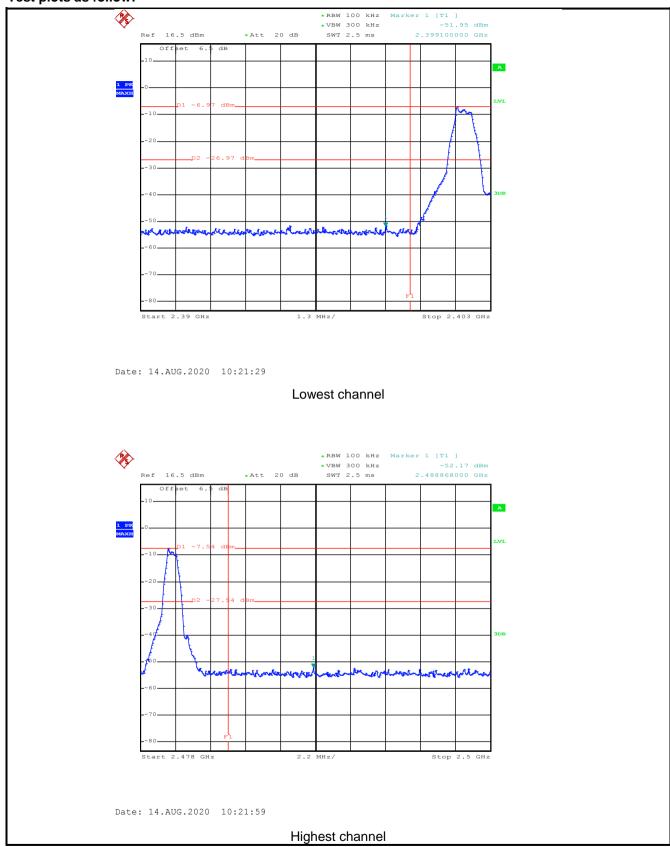
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					



Test plots as follow:



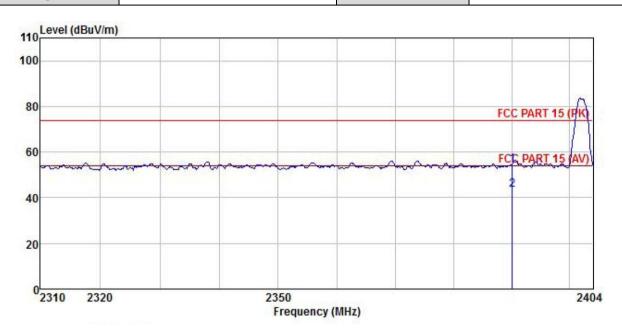


6.6.2 Radiated Emission Method

Test Requirement:		Section 15.20)5 and 15.209				
Test Frequency Range:	2310 MHz to 2	2390 MHz and	2483.5MHz to 2	2500 MHz			
Test Distance:	3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Remark		
Receiver setup.		Peak	1MHz	3MHz	Peak Value		
	Above 1GHz	RMS	1MHz	3MHz	Average Value		
Limit:	Frequer	ncy Lir	nit (dBuV/m @3	Bm)	Remark		
	Above 10	3Hz	54.00		verage Value		
				Peak Value			
Test Procedure:	the groun to determ 2. The EUT antenna, tower. 3. The anter the groun Both horizemake the 4. For each case and meters are to find the 5. The test-case specified 6. If the emit the limit is of the EU have 10 ce	ad at a 3 meter ine the position was set 3 meter which was more mana height is varied to determine zontal and vertimeasurement suspected emitthen the antend the rota table maximum reasurement significant with the specified, then the transpected of the pecified, then the transpected of the pecified, then the transpected of the pecified, then the transpected of the pecified of the pecified of the transpected of the pecified of the transpected of the pecified of the transpected of the transpected of the pecified of the transpected of transpected of the transpec	neter camber. The table was rotated 360 degrees osition of the highest radiation. It meters away from the interference-receiving is mounted on the top of a variable-height antennated it is varied from one meter to four meters above rationally the maximum value of the field strength. It vertical polarizations of the antenna are set to ment. It demission, the EUT was arranged to its worst cantenna was tuned to heights from 1 meter to 4 at a table was turned from 0 degrees to 360 degrees.				
Test setup:	AE Was a second and a second an	Ground Test Receiver	Horn Antenna Reference Plane Pre- Amplifier Contr	Antenna Tower			
Test Instruments:	Refer to section	Refer to section 5.9 for details					
Test mode:	Refer to section	Refer to section 5.3 for details					
Test results:	Passed						



Product Name:	4G Smartphone	Product Model:	Elite P55
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

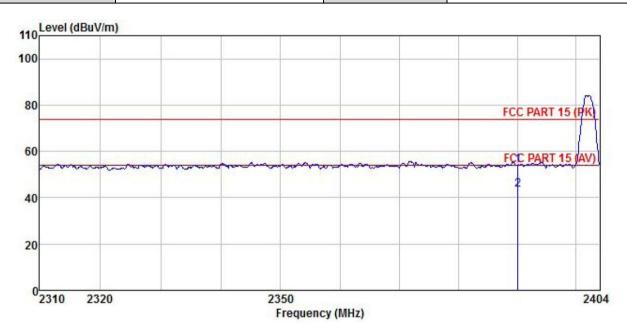


Freq		Antenna Factor					Limit Line		
MHz	dBu₹	$-\overline{dB}/\overline{m}$	d <u>B</u>	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
2390.000 2390.000									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	4G Smartphone	Product Model:	Elite P55
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

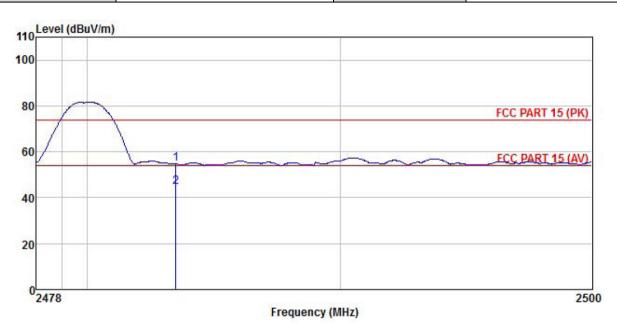


	Read Freq Level		Antenna Factor							
	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2390.000 2390.000									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	4G Smartphone	Product Model:	Elite P55
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

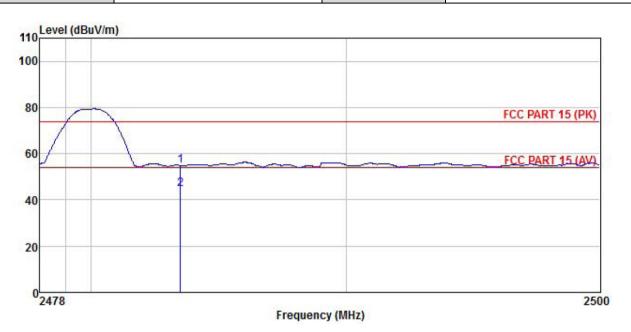


	Freq		Antenna Factor					Limit Line		Remark
	MHz	dBu₹	dB/m	dB	<u>d</u> B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483,500 2483,500									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	4G Smartphone	Product Model:	Elite P55
Test By:	YT	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor					Limit Line		
	MHz	dBu∜	dB/m		<u>d</u> B	<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2483,500 2483,500	The STATE OF THE S	770 (10) TO 10 (10) (10)	500 to 1000 cm						

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



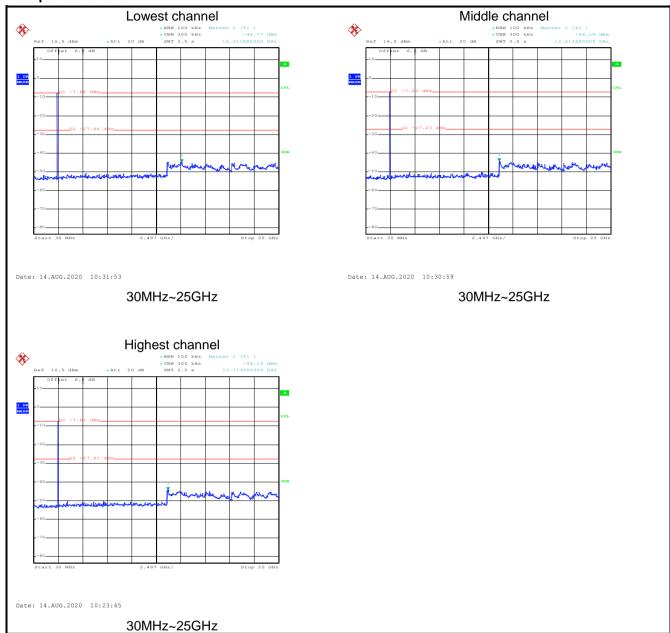
6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



Test plot as follows:

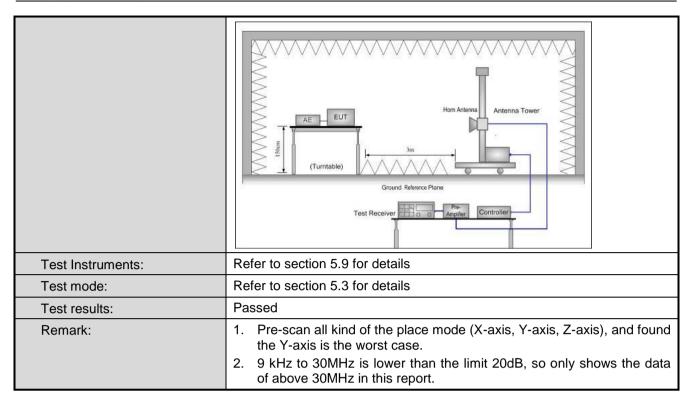




6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.2	05 and 15.209)		
Test Frequency Range:	9kHz to 25GHz					
Test Distance:	3m					
Receiver setup:	Frequency	Detector	RBW	VBW		Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz		Quasi-peak Value
	Al 4011-	Peak	1MHz	3M	Hz	Peak Value
	Above 1GHz	RMS	1MHz	3M	Hz	Average Value
Limit:	Frequency	/ L	imit (dBuV/m @	3m)		Remark
	30MHz-88M	Hz	40.0		C	Quasi-peak Value
	88MHz-216N	ИHz	43.5		C	Quasi-peak Value
	216MHz-960I	ИНz	46.0		C	Quasi-peak Value
	960MHz-1G	Hz	54.0		C	Quasi-peak Value
	Above 1GH	17	54.0			Average Value
			74.0			Peak Value table 0.8m(below
	highest rad The EUT antenna, w tower. The antenn the ground Both horize make the n For each s case and t meters and to find the n The test-re Specified E If the emiss the limit sp of the EUT have 10 dE	liation. was set 3 in thich was more and height is an and veneasurement ontal and veneasurement and the rota tab maximum respectiver systems and width with the rota tab maximum respectiver systems in level of ecified, then are would be respected to the maximum would be respected.	meters away bunted on the varied from one the maxim rtical polarization. The Eleman was tuned ading. The Eleman was set the Maximum Hate EUT in petesting could be ported. Other all did be re-tested bunted by the EUT in petesting could be re-tested.	from the top of a me met um valutions of EUT was do not be stop wise the done be	ne intervented to the control of the	the position of the efference-receiving ble-height antenna four meters above the field strength. antenna are set to anged to its worst from 1 meter to 4 ees to 360 degrees tect Function and is 10 dB lower than and the peak values ssions that did not using peak, quasi-reported in a data
Test setup:	EUT	3m 4m 0.8m 1m			Antenna Search Antenn Test ceiver —	1



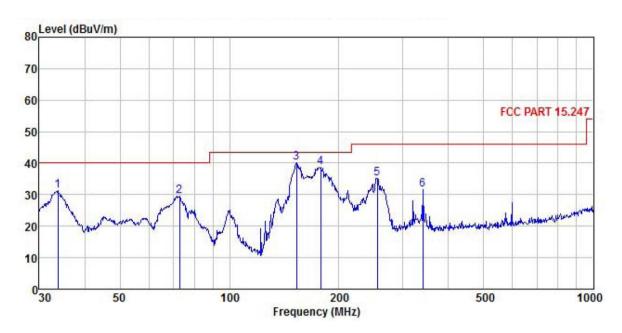




Measurement Data (worst case):

Below 1GHz:

Product Name:	4G Smartphone	Product Model:	Elite P55
Test By:	YT	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



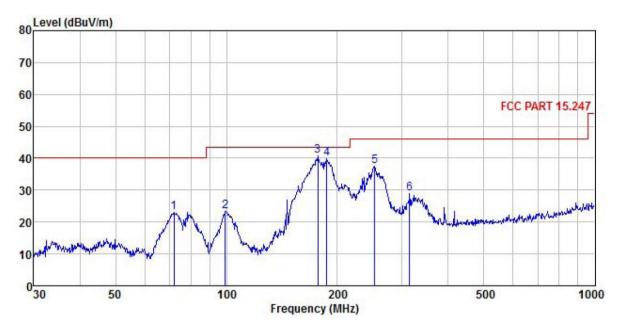
		ReadAntenna						Limit		
	Freq	Level	Factor	Loss	Factor	Factor	Level	Line	Limit	Remark
_	MHz	dBu∇	dB/m		<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>ab</u>	
1	33.799	48.36	12.42	0.35	0.00	29.96	31.17	40.00	-8.83	QP
2	72.847	47.89	10.91	0.45	0.00	29.70	29.55	40.00	-10.45	QP
2	152.664	54.23	14.36	0.62	0.00	29.20	40.01	43.50	-3.49	QP
4	178.133	50.23	16.86	0.68	0.00	28.99	38.78	43.50	-4.72	QP
5	254.728	44.30	18.52	0.79	0.00	28.53	35.08	46.00	-10.92	QP
6	339.589	40.39	18.78	0.92	0.00	28.54	31.55	46.00	-14.45	QP

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	4G Smartphone	Product Model:	Elite P55
Test By:	YT	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor			Preamp		Limit Line	Over Limit	
	MHz	dBuV				400000000	dBu√/m			
1_		41.49	2000	0.45				Ser Marky SM	-17.07	
2	99.180	43.44	8.89	0.52	0.00	29.53	23.32	43.50	-20.18	QP
3	176.888 187.096	52.16 50.90		0.67 0.69					-2.83 -3.54	
5	252.948	46.81	18.51	0.79	79707070		37.58			STATE OF THE PARTY
6	314.377	37.81	18.73	0.88	0.00	28.48	28.94	46.00	-17.06	QP

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Above 1GHz

Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	47.85	30.78	6.80	2.44	41.81	46.06	74.00	-27.94	Vertical
4804.00	48.98	30.78	6.80	2.44	41.81	47.19	74.00	-26.81	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	40.25	30.78	6.80	2.44	41.81	38.46	54.00	-15.54	Vertical
4804.00	39.98	30.78	6.80	2.44	41.81	38.19	54.00	-15.81	Horizontal
Test channel: Middle channel									
Detector: Peak Value									

Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	46.59	30.96	6.86	2.47	41.84	45.04	74.00	-28.96	Vertical
4884.00	47.81	30.96	6.86	2.47	41.84	46.26	74.00	-27.74	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	41.09	30.96	6.86	2.47	41.84	39.54	54.00	-14.47	Vertical
4884.00	39.65	30.96	6.86	2.47	41.84	38.10	54.00	-15.90	Horizontal

Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	49.62	31.11	6.91	2.49	41.87	48.26	74.00	-25.74	Vertical
4960.00	48.78	31.11	6.91	2.49	41.87	47.42	74.00	-26.58	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	40.19	31.11	6.91	2.49	41.87	38.83	54.00	-15.17	Vertical
4960.00	39.94	31.11	6.91	2.49	41.87	38.58	54.00	-15.42	Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss + Aux Factor - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.