

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2100787

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 Smart Phone

Model No.: Elite E55Max

Trade mark: SKY Devices

FCC ID: 2ABOSSKYELITE55MX

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

Date of sample receipt: 10 May, 2021

Date of Test: 10 May, to 02 Jun., 2021

Date of report issued: 16 Jun., 2021

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 JYT 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	16 Jun., 2021	Original

Tested by:	Janet	vvei	Date:	16 Jun., 2021
	Test Engin	eer		
		•		

Reviewed by:

| Winner Thang | Date: 16 Jun., 2021 | Project Engineer

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4 Test Summary

Test Items	Section in CFR 47	ction in CFR 47 Test Data	
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A - BLE	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A - BLE	Pass
Power Spectral Density	15.247 (e)	Appendix A - BLE	Pass
Conducted Band Edge	15 247 (d)	Appendix A - BLE	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission	15.205 & 15.209	Appendix A - BLE	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	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

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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.

3.2 Ochiciai Description	
Product Name:	4G Smart Phone
Model No.:	Elite E55Max
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	0.5 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2500mAh
AC adapter:	Input: AC100-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 1000mA
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.

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5.3 Test environment and mode

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			

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 Laboratory Facility

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

FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen 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 JianYan Testing Group Shenzhen 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

5.7 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.



5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-18-2020	06-17-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919b	
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200		Version: 2.0.0.0	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021
10m SAC	ETS	RFSD-100-F/A	Q2005	03-31-2021	04-01-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	03-31-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	03-31-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-06-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-07-2022
Test Software	R&S	EMC32	Version: 10.50.40		

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	03-03-2021	03-02-2022	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022	
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	06-17-2021	
Cable	HP	10503A	N/A	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	\	ersion: 6.110919l/)	

Conducted method:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021	
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021	
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021	
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021	
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021	
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A	



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PDU	MWRF-test	XY-G10	N/A N/A		N/A
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0		
DC Power Supply	Keysight	E3642A	MY60296194	11-26-2021	

6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
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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 0.5 dBi.

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6.2 Conducted Emission

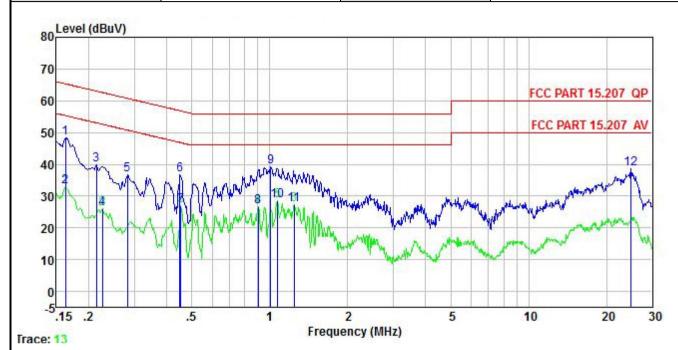
Test Requirement:	FCC Part 15 C Section 15.207	7						
Test Frequency Range:	150 kHz to 30 MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz							
Limit:	·	Limit (dBu\/)						
-	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
	* Decreases with the logarithm	n of the frequency.						
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 LISN 40cm AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Net Test table height=0.8m	80cm LISN Filter Filter Receiver	– AC power					
Test Instruments:	Refer to section 5.9 for details							
Test mode:	Refer to section 5.3 for details	·						
Test results:	Passed							

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Measurement Data:

Product name:	4G Smart Phone	Product model:	Elite E55Max		
Test by:	Janet	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%		



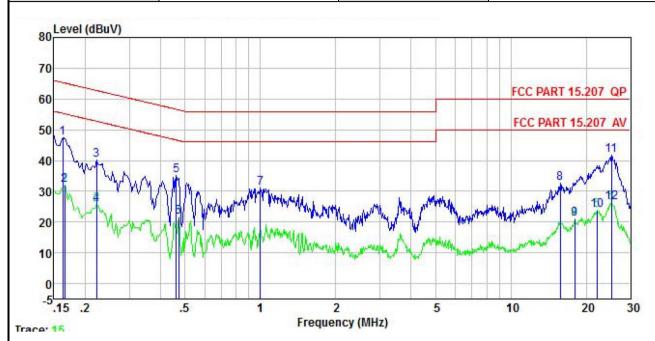
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u> </u>	MHz	dBu∜	<u>ab</u>	<u>ab</u>	<u>ab</u>	dBu√	dBu∀	<u>ab</u>	
1	0.162	38.33	10.13	-0.08	0.01	48.39		-16.95	31.D(7 .3)
1 2 3 4 5	0.162 0.214	22.88 29.88	10.13 10.15	-0.08 -0.18	0.01 0.03	32.94 39.88		-22.40 -23.17	Average QP
4	0.226	15.92	10.16	-0.19	0.02	25.91			Average
5 6	0.282 0.449	26.71 26.28	10.20 10.31	-0.25 0.02	0.02 0.03	36.68 36.64	UNITED TO STATE	-24.08 -20.25	
7	0.454	16.53	10.32	-0.01	0.03	26.87			Average
6 7 8 9	0.904 1.010	16.07 28.20	10.46 10.48	0.21 0.45	0.04 0.05	26.78 39.18		-19.22 -16.82	Average OP
10	1.071	17.45	10.49	0.39	0.07	28.40	46.00	-17.60	Average
11 12	1.242 24.790	16.33 26.24	10.50 11.25	0.22 0.97	0.10 0.19	27.15 38.65		-18.85 -21.35	Average QP

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.



Product name:	4G Smart Phone	Product model:	Elite E55Max
Test by:	Janet	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	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u>~</u>	MHz	dBu∀	<u>dB</u>	<u>db</u>	<u>ap</u>	dBu₹	—dBu√	<u>dB</u>	
1	0.162	37.45	9.90	0.01	0.01	47.37	65.34	-17.97	QP
2	0.166	22.00	9.90	0.01	0.01	31.92	55.16	-23.24	Average
3	0.222	30.19	9.94	0.00	0.03	40.16	62.74	-22.58	QP
1 2 3 4 5 6 7 8 9	0.222	15.91	9.94	0.00	0.03	25.88	52.74	-26.86	Average
5	0.461	25.10	10.17	0.00	0.03	35.30	56.67	-21.37	QP
6	0.471	11.46	10.18	0.01	0.03	21.68	46.49	-24.81	Average
7	1.000	20.48	10.56	0.08	0.05	31.17	56.00	-24.83	QP
8	15.718	18.39	11.42	2.71	0.15	32.67	60.00	-27.33	QP
9	17.944	8.12	11.54	1.30	0.15	21.11	50.00	-28.89	Average
10	22.063	11.65	11.67	0.45	0.16	23.93	50.00	-26.07	Average
11	25.188	29.06	11.72	0.73	0.19	41.70	60.00	-18.30	QP
12	25.188	13.58	11.72	0.73	0.19	26.22	50.00	-23.78	Average

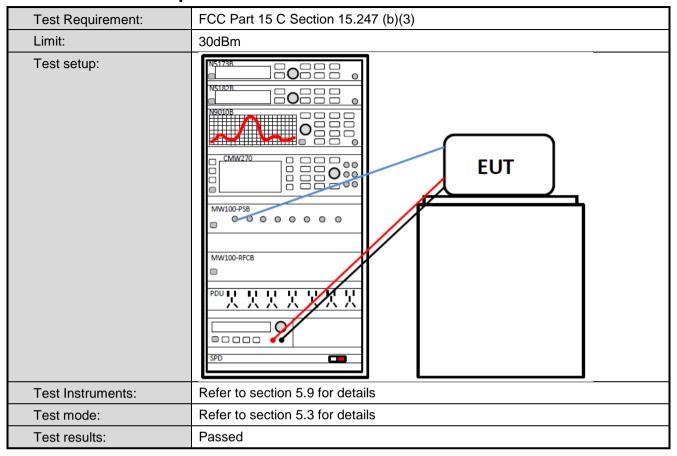
Notes:

- 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.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.





6.3 Conducted Output Power



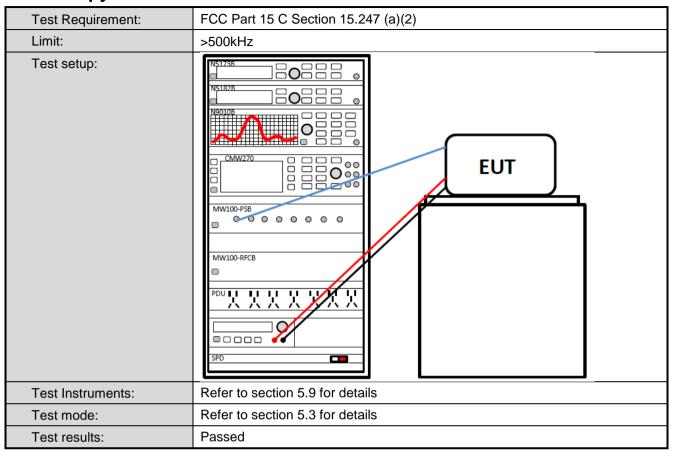
Measurement Data: Refer to Appendix A - BLE

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6.4 Occupy Bandwidth



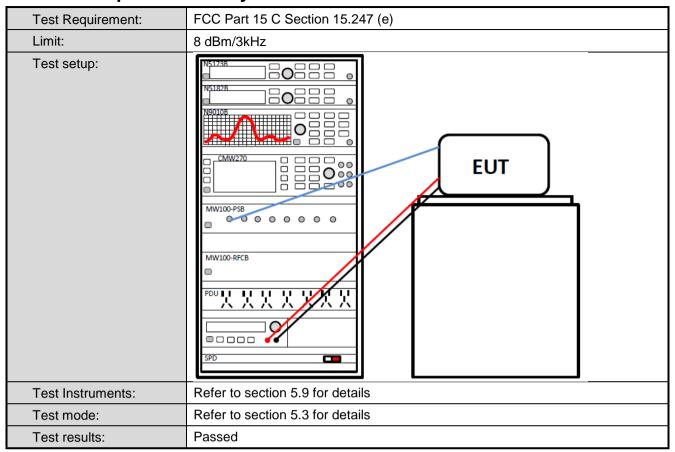
Measurement Data: Refer to Appendix A - BLE

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6.5 Power Spectral Density



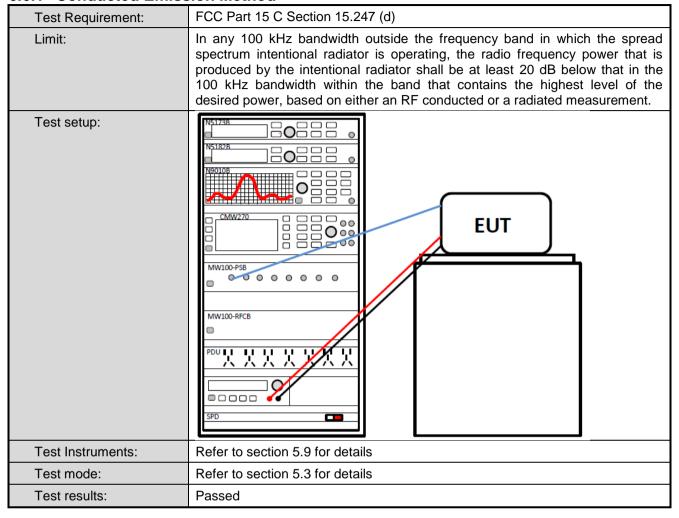
Measurement Data: Refer to Appendix A - BLE

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6.6 Band Edge

6.6.1 Conducted Emission Method



Measurement Data: Refer to Appendix A - BLE



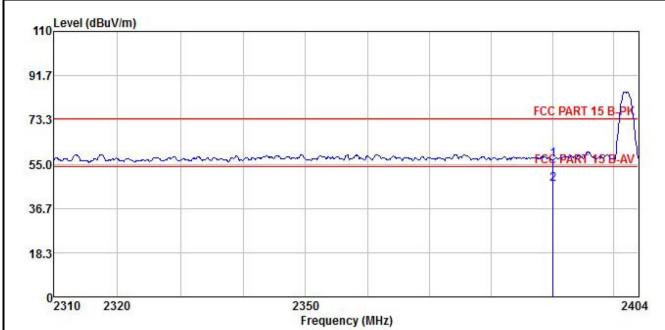
Radiated Emission Method 6.6.2

. cook to question and to the cook to the							
	2310 MHz to 2390 MHz and 2483.5MHz to 2500 MHz						
Test Distance: 3m	3m						
Receiver setup: Frequency Detector RBW	١ ١	VBW	Remark				
Above 1GHz Peak 1MHz		3MHz	Peak Value				
RMS 1MHz		3MHz	Average Value				
Limit: Frequency Limit (dBuV/m 0	2/3m)		Remark				
Above 1GHz 54.00 74.00			erage Value Peak Value				
Test Procedure: 1. The EUT was placed on the top of a sthe ground at a 3 meter camber. The to determine the position of the higher to determine the position of the higher to determine the position of the higher to determine the maximum antenna, which was mounted on the stower. 3. The antenna height is varied from one the ground to determine the maximum and both horizontal and vertical polarization make the measurement. 4. For each suspected emission, the EU case and then the antenna was tuned meters and the rota table was turned to find the maximum reading. 5. The test-receiver system was set to F Specified Bandwidth with Maximum F G. If the emission level of the EUT in perting the limit specified, then testing could of the EUT would be reported. Otherwhave 10 dB margin would be re-tested.	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data 						
Test setup: Horn Arlenna Ground Reference Plane Test Receiver Test Receiver	Antenna	na Tower					
Test Instruments: Refer to section 5.9 for details							
Test mode: Refer to section 5.3 for details							
Test results: Passed							

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Product Name:	4G Smart Phone	Product Model:	Elite E55Max
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

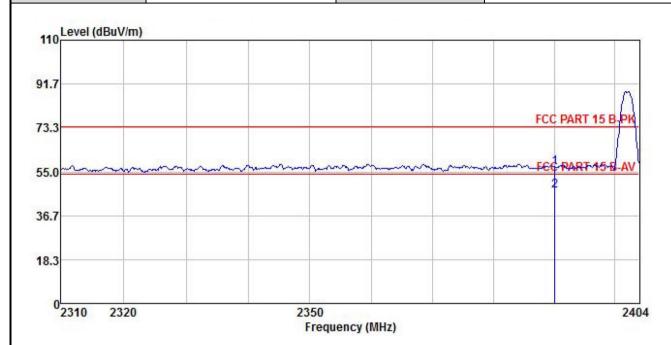


	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu∀	dB/m	₫B	₫B	dBuV/m	dBuV/m	dB	
1 2	2390.000 2390.000								

- 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 Smart Phone	Product Model:	Elite E55Max
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



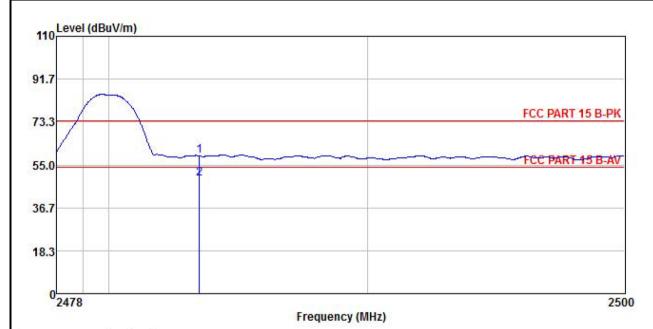
	Freq		Antenna Factor				Limit Line		
	MHz	dBu∇			<u>dB</u>	dBuV/m	$\overline{dB} \overline{uV}/\overline{m}$	<u>ab</u>	
1 2	2390.000 2390.000								

- 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.

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Product Name:	4G Smart Phone	Product Model:	Elite E55Max
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

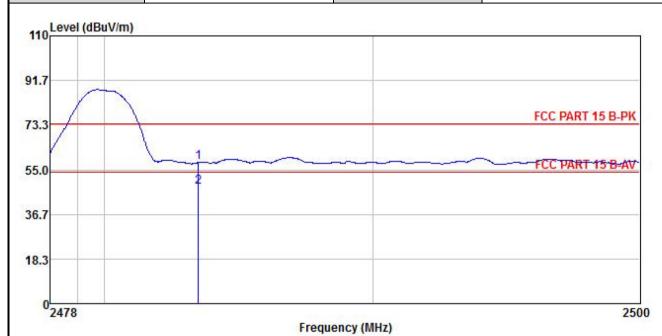


	Freq		Antenna Factor					
	MHz	dBu∀	<u>dB</u> /m	 <u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>ab</u>	
1	2483.500 2483.500							

- 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 Smart Phone	Product Model:	Elite E55Max
Test By:	Janet	Test mode:	BLE Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor						Remark
	MHz	dBuV	<u>−−</u> <u>dB</u> /m	<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1 2	2483.500 2483.500								

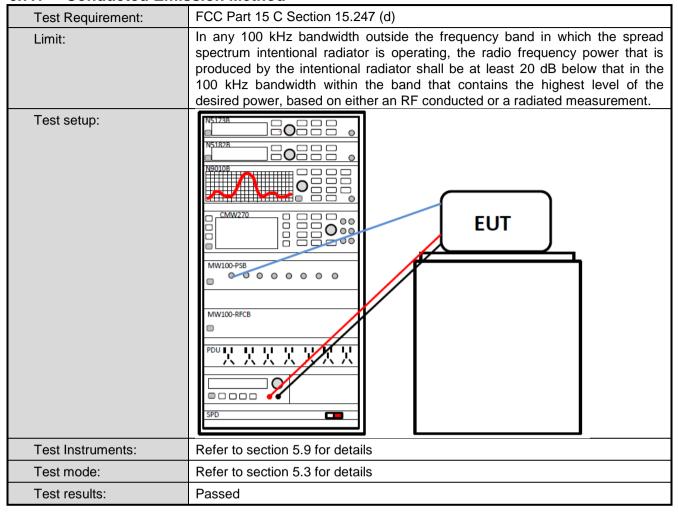
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method



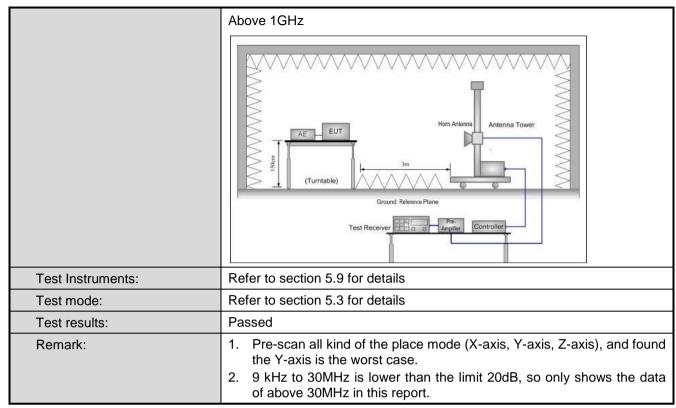
Measurement Data: Refer to Appendix A - BLE



6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209						
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m or 10m						
Receiver setup:	Frequency	Detector	r	RBW	VB	sW	Remark
	30MHz-1GHz	Quasi-pea	ak	120KHz	3001	KHz	Quasi-peak Value
	Above 1GHz	Peak		1MHz	3M	Hz	Peak Value
	7,0000 10112	RMS		1MHz	3M	Hz	Average Value
Limit:	Frequency		Lim	it (dBuV/m @	10m)		Remark
	30MHz-88M			30.0			Quasi-peak Value
	88MHz-216N			33.5			Quasi-peak Value
	216MHz-960I 960MHz-1G			36.0 44.0			Quasi-peak Value Quasi-peak Value
	Frequency		Lin	nit (dBuV/m @	3m)		Remark
			LIII	54.0	3111)		Average Value
	Above 1GF	łz 🗀		74.0			Peak Value
Test Procedure:	1. The EUT	was place	ed o		of a ro	tating	table 0.8m(below
	(below 1G rotated 36 radiation. 2. The EUT waway from on the top of 3. The antening the ground Both horizon make the notate of the emission of the EUT have 10 de second	Hz)or 3 m to degrees was set 10 m the interfer of a variable ha height is to determental and we heasureme suspected hen the and the rota ta maximum receiver system and width we sion level of ecified, the would be margin we	meters to meters to meters to meters to meter tent. eminable read rester to the meters to meter tent.	er chamber(and determine d	above the part of	1GHz cositio 3 me na, wh cer to h ue of the a as arra eights degre de. de was ped ar ue emis y one	10 meter chamber (a). The table was in of the highest eters (above 1GHz) which was mounted four meters above the field strength. In antenna are set to anged to its worst from 1 meter to 4 wested 360 degrees tect Function and is 10 dB lower than and the peak values significantly and the peak values significantly and the peak values are ported in a data
Test setup:	Below 1GHz	4m			S A RF	Antenna To rearch untenna Test ceiver	ower





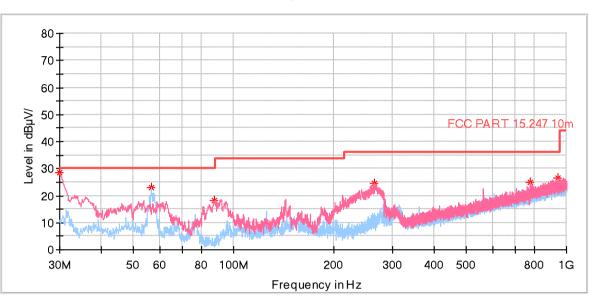


Measurement Data (worst case):

Below 1GHz:

Product Name:	4G Smart Phone	Product Model:	Elite E55Max	
Test By:	Janet	Test mode:	BLE Tx mode	
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical/ Horizontal	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%	





•	Frequency↓	MaxPeak↓	Limit↓	Margin↓	Height↓	Pol₽	Azimuth ↓	Corr.↓
	(MHz)₽	(dB ¼ V/m)₽	(dBh	(dB)∂	(cm) <i>₽</i>		(deg)∂	(dB/m)∂
•	56.578000	23.00∂	30.00₽	7.00↩	100.0₽	H₽	143.0₽	-16.5↔
•	263.867000	24.48	36.00₽	11.52↩	100.0₽	V₽	1.0₽	-15.6₽
•	30.000000₽	28.55₽	30.00₽	1.45₽	100.0₽	V₽	56.0₽	-17.7₽
•	939.763000₽	26.61∂	36.00₽	9.39₽	100.0₽	V₽	153.0₽	-0.2↩
•	87.424000	18.26₽	30.00₽	11.74₽	100.0₽	V₽	180.0₽	-20.1₽
•	776.706000₽	25.10∂	36.00₽	10.90₽	100.0₽	V₽	244.0₽	-3.0₽

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.





Above 1GHz

Test channel: Lowest channel											
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization					
4804.00	56.27	-10.39	45.88	74.00	28.12	Vertical					
4804.00	55.90	-10.39	45.51	74.00	28.49	Horizontal					
	Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization					
4804.00	48.04	-10.39	37.65	54.00	16.35	Vertical					
4804.00	48.39	-10.39	38.00	54.00	16.00	Horizontal					
	Test channel: Middle channel										
		De	tector: Peak Valu	ie							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization					
4884.00	56.59	-10.18	46.41	74.00	27.59	Vertical					

Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4884.00	56.59	-10.18	46.41	74.00	27.59	Vertical			
4884.00	55.91	-10.18	45.73	74.00	28.27	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4884.00	48.08	-10.18	37.90	54.00	16.10	Vertical			
4884.00	47.87	-10.18	37.69	54.00	16.31	Horizontal			

Test channel: Highest channel										
Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4960.00	56.10	-10.12	45.98	74.00	28.02	Vertical				
4960.00	56.07	-10.12	45.95	74.00	28.05	Horizontal				
		Dete	ctor: Average Va	alue						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4960.00	48.02	-10.12	37.90	54.00	16.10	Vertical				
4960.00	48.26	-10.12	38.14	54.00	15.86	Horizontal				

Remark:

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Final Level =Receiver Read level + Factor.

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