

Report No.: JYTSZB-R12-2102547

FCC REPORT

Applicant:	SKY PHONE LLC
Address of Applicant:	1348 Washington Av. Suite 350, Miami Beach, FL33139
Equipment Under Test (E	EUT)
Product Name:	SMART PHONE
Model No.:	Elite P55Max
Trade mark:	SKY DEVICES
FCC ID:	2ABOSSKYELITEP55MX
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	18 Nov., 2021
Date of Test:	19 Nov., to 16 Dec., 2021
Date of report issued:	13 Mar., 2023
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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Version 2

Version No.	Date	Description
00	21 Dec., 2021	Original
01	13 Mar., 2023	Update page 1

Tested by:

Mike.DU Test Engineer

Date: 13 Mar., 2023

Winner Thang

Reviewed by:

Project Engineer

13 Mar., 2023 Date:

Project No.: JYTSZE2111063



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4 Test Summary

-	Test Items	Section in CFR 47	Test Data	Result	
Anter	nna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass	
AC Power Lir	ne Conducted Emission	15.207	See Section 6.2	Pass	
Conducted	Peak Output Power	15.247 (b)(3)	Appendix A - BLE	Pass	
	nission Bandwidth cupied Bandwidth	15.247 (a)(2)	Appendix A - BLE	Pass	
Power	Spectral Density	15.247 (e)	Appendix A - BLE	Pass	
Conducted Band Edge			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). ANSI C63.10-2013					
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02					



General Information 5

5.1 Client Information

Applicant:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139

5.2 General Description of E.U.T.

Product Name:	SMART PHONE
Model No.:	Elite P55Max
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.73 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2000mAh
AC adapter:	Input: AC100-220V, 50/60Hz, 0.3A
	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.



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

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB
Radiated Emission (30MHz ~ 1GHz) for 10m SAC	4.32 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 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 and 10m 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.

• CNAS - Registration No.: CNAS L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>



5.8 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. Tel: +86-755-23118282, Fax: +86-755-23116366

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

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	ETS	RFD-100	Q1984	04-14-2021	04-13-2024	
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-044	03-07-2021	03-06-2022	
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022	
Biconical Antenna	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022	
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022	
Simulated Station	Anritsu	MT8820C	6201026545	03-03-2021	03-02-2022	
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022	
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022	
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022	
EMI Test Software	Tonscend	TS+		Version:3.0.0.1		
10m SAC	ETS	RFSD-100-F/A	Q2005	04-28-2021	04-27-2024	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	04-02-2021	04-01-2022	
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	04-02-2021	04-01-2022	
EMI Test Receiver	R&S	ESR 3	102800	04-08-2021	04-07-2022	
EMI Test Receiver	R&S	ESR 3	102802	04-08-2021	04-07-2022	
Low Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-05-2022	
Low Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-05-2022	
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-1	04-02-2021	04-01-2022	
Cable	Bost	JYT10M-1G-NN-10M	JYT10M-2	04-02-2021	04-01-2022	
Test Software	R&S	EMC32	١	/ersion: 10.50.4	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 3	101189	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		



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	10-27-2021	10-26-2022	
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022	
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022	
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022	
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022	
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A	
PDU	MWRF-test	XY-G10	N/A	N/A	N/A	
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023	
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022	
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0			



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohit 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional ra	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or bited. ower limit specified in paragraph (b) of this section is based on the use of this that do not exceed 6 dBi. Except as shown in paragraph (c) of this inas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), tion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
The BLE antenna is an FPC antenna is 1.73 dBi.	antenna which cannot replace by end-user, the best-case gain of the



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:	Frequency range (MHz)				
	· · · · · · · · · · · · · · · · · · ·	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30 * Decreases with the logarithm	60	50		
Test procedure:	 The E.U.T and simulators line impedance stabilizati 50ohm/50uH coupling im The peripheral devices ar LISN that provides a 50ol termination. (Please refer photographs). Both sides of A.C. line ard interference. In order to fi positions of equipment ar according to ANSI C63.10 	s are connected to the ma on network (L.I.S.N.), wh pedance for the measuring re also connected to the hm/50uH coupling imped to the block diagram of to the block diagram of e checked for maximum and the maximum emission and all of the interface cab	hich provides a ng equipment. main power through a lance with 500hm the test setup and conducted on, the relative les must be changed		
Test setup:	Reference	80cm Filter EMI Receiver	– AC power		
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

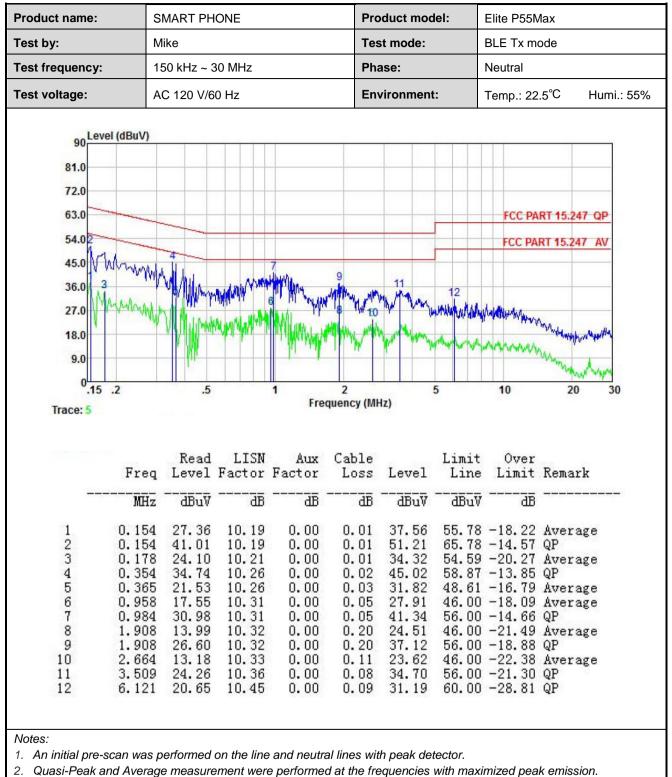


Measurement Data:

est by:		SMART PHONE				del:	Elite P55Max			
act fragmanau	Mike			Те	st mode:		BLE Tx mode			
Test frequency:	150 kHz -	150 kHz ~ 30 MHz AC 120 V/60 Hz			ase:		Line			
est voltage:	AC 120 V				vironmen	t:	Temp.: 22	Temp.: 22.5°C Humi.: 55%		
Laurel (dD	10					·				
90 Level (dB						TTT				
81.0										
72.0										
63.0							FCC D	ART 15.247 0	D	
54.0 1 Z	6	0					FCC PA	ART 15.247	4V	
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9.0								to company	4m	
0 15 2		5	4	2		5	10	20	30	
0.15 .2		5	1 Fre	2 equency (M	Hz)	5	10	20	30	
0.15 .2 Trace: 7		.5		-	Hz)	5	10	20	30	
		5		-	Hz)	5	10	20	30	
Trace: 7	Read	l LISN	Fre	equency (M Cable		Limit	Over] 30	
Trace: 7	Read		Fre	equency (M	Hz) Level		Over	20 Remark	30	
Trace: 7 Fr	Read	l LISN Factor	Fre	equency (M Cable		Limit	Over		 30	
Trace: 7 Fr M	Read eq Level Hz dBuV	l LISN Factor	Aux Factor dB	Cable Loss dB	Level 	Limit Line dBuV	Over Limit aB	Remark		
Trace: 7 Fr M 1 0.1	Read eq Level Hz dBuV 78 39.34 19 38.72	LISN Factor B 10.23	Aux Factor dB 0.00 0.00	Cable Loss dB 0.01 0.03	Level dBuV 49.58 48.99	Limit Line 	Over Limit -15.01 -13.89	Remark QP QP		
Trace: 7 Fr 1 0. 1 2 0. 2 3 0. 2	Read eq Level Hz dBuV 78 39.34 19 38.72 46 26.19	LISN Factor dB 10.23 10.24 10.25	Factor 	Cable Loss dB 0.01 0.03 0.01	Level dBuV 49.58 48.99 36.45	Limit Line dBuV 64.59 62.88 51.91	Over Limit dB -15.01 -13.89 -15.46	Remark QP QP Average		
Trace: 7 Fr 1 0.1 2 0.2 3 0.2 4 0.3	Read eq Level Hz dBuV 78 39.34 19 38.72 46 26.19 54 27.13	LISN Factor dB 10.23 10.24 10.25 10.27	Factor 	Cable Loss dB 0.01 0.03 0.01 0.02	Level dBuV 49.58 48.99 36.45 37.42	Limit Line dBuV 64.59 62.88 51.91 48.87	Over Limit -15.01 -13.89 -15.46 -11.45	Remark QP QP Average Average		
Trace: 7 Fr 1 0.1 2 0.2 3 0.2 4 0.3 5 0.3	Read eq Level Hz dBuV 78 39.34 19 38.72 46 26.19 54 27.13 89 30.96	LISN Factor dB 10.23 10.24 10.25 10.27 10.28	Aux Factor 	Cable Loss dB 0.01 0.03 0.01 0.02 0.04	Level dBuV 49.58 48.99 36.45 37.42 41.28	Limit Line dBuV 64.59 62.88 51.91 48.87 48.08	Over Limit -15.01 -13.89 -15.46 -11.45 -6.80	Remark QP Average Average Average		
Trace: 7 Fr 1 0.1 2 0.2 3 0.2 4 0.3 5 0.3 6 0.3	Read eq Level Hz dBuV 78 39.34 19 38.72 46 26.19 54 27.13 89 30.96 93 38.71	LISN Factor dB 10.23 10.24 10.25 10.27 10.28 10.28 10.28	Aux Factor dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Cable Loss dB 0.01 0.03 0.01 0.02 0.04 0.04	Level dBuV 49.58 48.99 36.45 37.42 41.28 49.03	Limit Line dBuV 64.59 62.88 51.91 48.87 48.08 57.99	Over Limit -15.01 -13.89 -15.46 -11.45 -6.80 -8.96	Remark QP Average Average Average QP		
Trace: 7 Fr 1 0.1 2 0.2 3 0.2 4 0.3 5 0.3 6 0.3 7 0.4	Read eq Level Hz dBuV 78 39.34 19 38.72 46 26.19 54 27.13 89 30.96 93 38.71 61 25.07	LISN Factor dB 10.23 10.24 10.25 10.27 10.28 10.28 10.28 10.29	Aux Factor 	Cable Loss dB 0.01 0.03 0.01 0.02 0.04 0.04 0.03	Level dBuV 49.58 48.99 36.45 37.42 41.28 49.03 35.39	Limit Line dBuV 64.59 62.88 51.91 48.87 48.08 57.99 46.67	Over Limit -15.01 -13.89 -15.46 -11.45 -6.80 -8.96 -11.28	Remark QP QP Average Average QP Average QP Average		
Trace: 7 Fr 1 0.1 2 0.2 3 0.2 4 0.3 5 0.3 6 0.3	Read eq Level Hz dBuV 78 39.34 19 38.72 46 26.19 54 27.13 89 30.96 93 38.71 61 25.07 79 22.55	LISN Factor dB 10.23 10.24 10.25 10.27 10.28 10.28 10.28 10.29 10.31	Aux Factor dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Cable Loss dB 0.01 0.03 0.01 0.02 0.04 0.04	Level dBuV 49.58 48.99 36.45 37.42 41.28 49.03	Limit Line dBuV 64.59 62.88 51.91 48.87 48.08 57.99 46.67 46.00	Over Limit -15.01 -13.89 -15.46 -11.45 -6.80 -8.96 -11.28	Remark QP QP Average Average QP Average QP Average Average		
Trace: 7 Fr 1 0.1 2 0.2 3 0.2 4 0.3 5 0.3 5 0.3 6 0.3 7 0.4 8 0.7 9 0.7 10 2.5	Read eq Level Hz dBuv 78 39.34 19 38.72 46 26.19 54 27.13 89 30.96 93 38.71 61 25.07 79 22.55 79 34.15 27 18.87	LISN Factor dB 10.23 10.24 10.25 10.27 10.28 10.28 10.28 10.29 10.31 10.31	Free Aux Factor dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Cable Loss dB 0.01 0.03 0.01 0.02 0.04 0.04 0.03 0.03 0.03 0.03 0.13	Level dBuV 49.58 48.99 36.45 37.42 41.28 49.03 35.39 32.89 44.49 29.34	Limit Line dBuV 64.59 62.88 51.91 48.87 48.08 57.99 46.67 46.00 56.00 46.00	Over Limit -15.01 -13.89 -15.46 -11.45 -6.80 -8.96 -11.28 -13.11 -11.51 -16.66	Remark QP QP Average Average QP Average QP Average QP Average QP		
Trace: 7 Fr 1 0.1 2 0.2 3 0.2 4 0.3 5 0.3 5 0.3 6 0.3 7 0.4 8 0.7 9 0.7 10 2.5 11 3.4	Read eq Level Hz dBuy 78 39.34 19 38.72 46 26.19 54 27.13 89 30.96 93 38.71 61 25.07 79 22.55 79 34.15 27 18.87 54 30.82	LISN Factor dB 10.23 10.24 10.25 10.27 10.28 10.28 10.28 10.29 10.31 10.31 10.34 10.37	Free Aux Factor dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Cable Loss dB 0.01 0.03 0.04 0.04 0.03 0.03 0.03 0.03 0.03	Level dBuV 49.58 48.99 36.45 37.42 41.28 49.03 35.39 32.89 44.49 29.34 41.27	Limit Line dBuV 64.59 62.88 51.91 48.87 48.08 57.99 46.67 46.00 56.00 56.00	Over Limit -15.01 -13.89 -15.46 -11.45 -6.80 -8.96 -11.28 -13.11 -11.51 -16.66 -14.73	Remark QP QP Average Average QP Average QP Average QP Average QP		
Trace: 7 Fr 1 0.1 2 0.2 3 0.2 4 0.3 5 0.3 5 0.3 6 0.3 7 0.4 8 0.7 9 0.7 10 2.5	Read eq Level Hz dBuy 78 39.34 19 38.72 46 26.19 54 27.13 89 30.96 93 38.71 61 25.07 79 22.55 79 34.15 27 18.87 54 30.82	LISN Factor dB 10.23 10.24 10.25 10.27 10.28 10.28 10.28 10.29 10.31 10.31 10.34 10.37	Free Aux Factor dB 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Cable Loss dB 0.01 0.03 0.01 0.02 0.04 0.04 0.03 0.03 0.03 0.03 0.13	Level dBuV 49.58 48.99 36.45 37.42 41.28 49.03 35.39 32.89 44.49 29.34	Limit Line dBuV 64.59 62.88 51.91 48.87 48.08 57.99 46.67 46.00 56.00 56.00	Over Limit -15.01 -13.89 -15.46 -11.45 -6.80 -8.96 -11.28 -13.11 -11.51 -16.66	Remark QP QP Average Average QP Average QP Average QP Average QP		

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

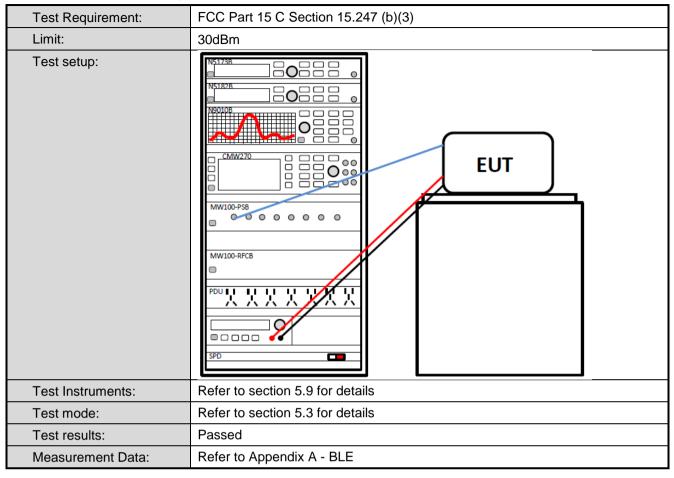




3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



6.3 Conducted Output Power





6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - BLE



6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)
Limit:	8 dBm/3kHz
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - BLE



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:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - BLE

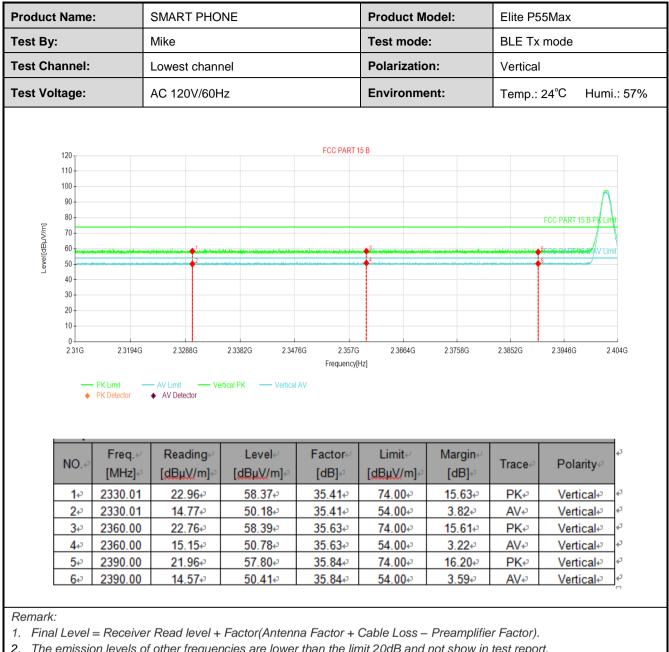


6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	C Section 15	5.205	and 15.209			
Test Frequency Range:	2310 MHz to 2	2390 MHz ai	nd 24	483.5MHz to 2	2500 I	MHz	
Test Distance:	3m						
Receiver setup:	Frequency	Detector	r	RBW		/BW	Remark
	Above 1GHz	Peak		1MHz		MHz	Peak Value
		RMS		1MHz		MHz	Average Value
Limit:	Frequer	ncy	Lim	it (dBuV/m @3	sm)	A	Remark
	Above 10	GHz –		54.00 74.00			verage Value Peak Value
Test Procedure:	 the groun to determ 2. The EUT antenna, tower. 3. The anter the groun Both hori: make the 4. For each case and meters ar to find the 5. The test-r Specified 6. If the emi the limit s of the EU have 10 c 	ad at a 3 met ine the posi was set 3 m which was r and height is do to determ zontal and v measureme suspected e then the an do the rota ta maximum receiver syst Bandwidth ssion level o specified, the T would be dB margin w	ter ca ition (neter mour s var ine tl vertic ent. emiss tenn able read tem v with of the en te repo vould	amber. The ta of the highest is away from the need on the top ied from one r he maximum v al polarization sion, the EUT a was turned fro was turned fro was set to Pea Maximum Hol e EUT in peak sting could be rted. Otherwis	ble wa radiat he into o of a neter /alue s of th was a o heig om 0 o ak De d Mode stopp se the one by	as rotat tion. erference variable to four of the fine anter arrange thes fror degrees tect Fundes was 1 bed ance emission y one us	e-height antenna meters above ield strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and 0 dB lower than d the peak values ons that did not sing peak, quasi-
Test setup:		LEUT urntable) G Test Recei	1000	Р.	Antenna Tr	ower	
Test Instruments:	Refer to section	on 5.9 for de	tails				
Test mode:	Refer to section	on 5.3 for de	tails				
Test results:	Passed						

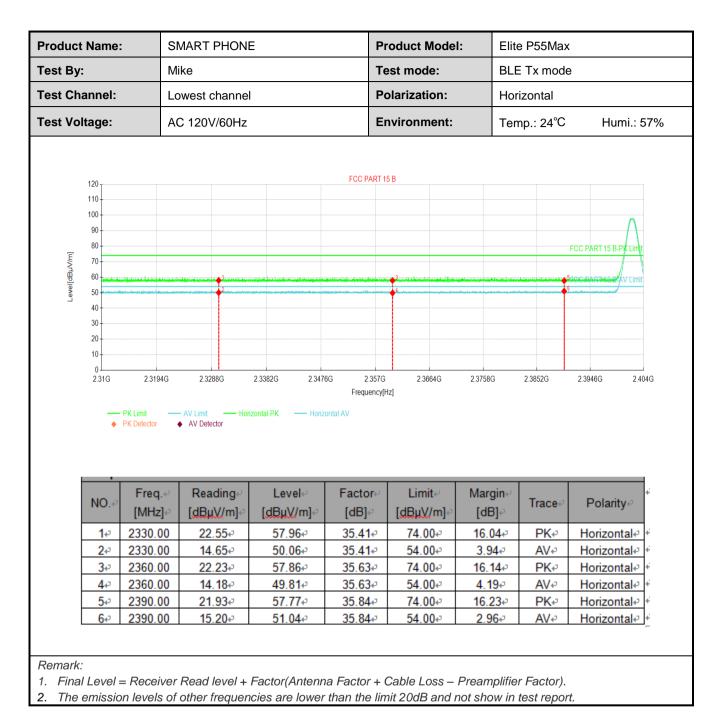
Project No.: JYTSZE2111063





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







	Name	-	SMART PHO			Product Mo	bael:	Elite P55Max			
Test By:			Mike			Test mode:	:	BLE Tx	mode		
Test Cha	nnel:	el: Highest channel			Polarizatio	n:	Vertical				
Test Volt	tage:		AC 120V/60Hz			Environme	nt:	Temp.: :	24℃ Hu	umi.: 57%	
	120 110 100 90 80 70 60 50 40				FCC PART 1	5 B		5	FCC PART 15 B-P	K Limit	
Let	30 20 10 0 2.478G	2.4802G - PK Limit - PK Detector	2.4824G AV Limit Ve AV Detector	2.4846G 2.4866 rtical PK — Vertical	Frequency[2.4912G Hz]	2.4934G	2.4956G	2.4978G	2.5G	
	30 20 10 0 2.478G	– PK Limit –	— AV Limit — Ve		Frequency[2.4934G Margin₊J [dB]₄J	2.4956G Trace+3	24978G Polarity	*	
	30 20 10 0 2.478G	- PK Limit - PK Defector - PK	AV Limit Ve ◆ AV Detector Ve Reading	rtical PK — Vertical Level«J	Frequency[IAV Factor⊷	Hz] Limit⊷	Margin⊬			ý₽ ¢	
	30 20 10 0 2.478G	Freq.+ [MHz]+	AV Limit Ve AV Detector Ve	rtical PK — Vertical Level∉ [dBµV/m]₽	Frequency[AV Factor↩ [dB]↩	Limit↩ [dBµV/m]↩	Margin⊮ [dB]₽	Trace+3	Polarit	γ⇔ ∔• €	
	30 20 10 2478G	- PK Limit PK Detector Freq. 4 [MHz] 4 2483.50	AV Limit Ve AV Detector Reading [dBµV/m] 22.40+ ³	Level [dBuV/m] 58.12	Frequency AV Factor [dB] 35.72+	Limit.⊷ [dBµV/m].⊷ 74.00.⊷	Margin.√ [dB].∞ 15.88⊷	Trace≓ PK⊷	Polarity Vertica	y↔ +	
	30 20 10 0 2.478G	Freq. 44 [MHz] 43 2483.50 2483.50	AV Limit Ve AV Detector Ve	trical PK — Vertical Level [dBµV/m] 58.12 € 50.35 €	Frequency AV Factor [dB] 35.72 35.72	Limit⊷ [dBµV/m]⊷ 74.00⊷ 54.00⊷	Margin₊ [dB]₊ 15.88₊³ 3.65₊ ³	Trace≓ PK+³ AV-₽	Polarity Vertica Vertica	+ + + + + + +	
	30 20 10 0 2.478G	- PKLimit PK Detector Freq.↔ [MHz]↔ 2483.50 2483.50 2489.00	AV Limit Ve AV Detector Ve Reading ↓ [dBµV/m] ↓ 22.40+ 14.63+ 14.14+	Level↔ [dBµV/m]↔ 58.12↔ 50.35↔ 49.85↔	Frequency[AV Factor¢ [dB]¢ 35.72¢ 35.72¢ 35.71¢	Limit↔ [dBµV/m]↔ 74.00↔ 54.00↔ 54.00↔	Margin⊮ [dB]⊮ 15.88₽ 3.65₽ 4.15₽	Trace.↓ PK.↓ AV.↓ AV.↓	Polarity Vertica Vertica Vertica	به ج ج الع ج الع ج ج	



		SMART PHONE			roduct Mode	el: Elit	e P55Ma>	K	
Fest By:	Ν	/like		Т	est mode:	BLI	E Tx mode	e	
Fest Channe	l: F	Highest channel			Polarization:		Horizontal		
Fest Voltage	: A	AC 120V/60Hz			nvironment:	Ter	Temp.: 24°C Humi.: 57%		
120 110 100 90 80 70 60 50				FCC PART	15 B		5 m	FCC PART 15 B-PK Limit	
40 30 20 10 0 24780	B 24802G PK Limit - PK Detector	2.4824G AV Limit — Ho AV Detector	2.4846G 2.486 prizontal PK — Hon	i8G 2.489G Frequency zontal AV		2.4934G	2.4956G	2.4978G 2.5G	
40 30 20 10	PK Limit - PK Detector -	— AV Limit — Ho		Frequency		2.4934G Margin⊷ [dB]⊷	2.4956G Trace+ ³	2.4978G 2.5G	
	 PK Limit PK Detector Freq. 4¹ [MHz] 4² 2483.50 	AV Limit Ho AV Detector	orizontal PK – Hori Level«J	Frequency zontal AV Factor⊷	Hz] Limit⊷'	Margin≓		*	
40 30 20 10 2.4780 NO.	PK Limit PK Detector Freq. ↔ [MHz] ↔	AV Limit Ho ♦ AV Detector Reading [dBµV/m]	orizontal PK — Hon Levele [dBµV/m]e	Frequency zontal AV Factor	Hz] Limit↩ [dBµV/m]↩	Margin↩ [dB]↩	Trace+ ³	Polarity⊧∍	
40 30 20 10 0 2 4780 NO. 4	 PK Limit PK Detector Freq. 4¹ [MHz] 4² 2483.50 	AV Limit Ho AV Detector Ho Reading	Level↔ [dBµV/m]↔ 58.37↔	Frequency zontal AV Factor [dB] 35.72+3	Limit.↩ [dBµV/m]↩ 74.00↩	Margin∉ [dB]∉ 15.63⊀³	Trace+ ³	Polarity⊮ Horizontal⊮ *	
40 30 20 10 0 2.4780 NO.4 1+ 2+3	 PK Limit PK Detector Freq. +^J [MHz] +^J 2483.50 2483.50 	AV Limit Ho AV Detector Ho Reading ↓ [dBµV/m] ↓ 22.65↓ 14.79↓	Levele [dBµV/m] 58.37↔ 50.51↔	Frequency zontal AV Factor.e [dB].e 35.72.e 35.72.e	Limit↩ [dBµV/m]↩ 74.00↩ 54.00↩	Margin↩ [dB]↩ 15.63↩ 3.49↩	Trace≓ PK+³ AV+³	Polarity Horizontal Horizontal *	
40 30 20 10 2.4780 NO.* 1+ ² 2+ ³ 3+ ³	 PK Limit PK Detector Freq. 4/2 [MHz] 4/2 2483.50 2483.50 2489.00 	AV Limit → Ho AV Detector Reading → [dBµV/m] → 22.65 → 14.79 → 14.36 →	Level [dBµV/m] 58.37↔ 50.51↔ 50.07↔	Frequency zontal AV Factor [dB] 35.72 35.72 35.71	Limit↩ [dBµV/m]↩ 74.00↩ 54.00↩ 54.00↩	Margin.⊌ [dB].₽ 15.63₽ 3.49₽ 3.93₽	Trace+ ² PK+ ² AV+ ²	Polarity Horizontal Horizontal Horizontal +	



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:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
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		RBW	VB	W	Remark
	30MHz-1GHz	Quasi-pea	ak	120KHz	300ł	КНz	Quasi-peak Value
	Above 1GHz Pea				3MHz		Peak Value
		1MHz	3M	Hz	Average Value		
Limit:	Frequency Limit (dBuV/m @10m) Remark						
	30MHz-88MHz 30.0 Quasi-p					luasi-peak Value	
	88MHz-216MHz 33.5 Quasi-p					luasi-peak Value	
	216MHz-960			36.0			luasi-peak Value
	960MHz-1G		1.1.00	44.0	2	G	Quasi-peak Value
	Frequency	/	LIII	nit (dBuV/m @	3m)		Remark Average Value
	Above 1GF	lz		<u>54.0</u> 74.0			Peak Value
Test Procedure:	 1GHz)/1.5r (below 1G rotated 36 radiation. The EUT w away from on the top of The antenr the ground Both horize make the n For each s case and t meters and to find the r The test-re Specified E If the emiss the limit sp of the EUT have 10 dE 	n (above 16 Hz)or 3 m 0 degrees vas set 10 r the interfe of a variable a height is to determ ontal and v neasurements suspected of hen the an I the rota ta maximum re eceiver sys andwidth w sion level o ecified, then would be margin wo	GHz netes to meta eren e-he s variante nine ent. eminten able ead stern with of the en te repoould	 above the er chamber (a o determine) determine 	ground above the p GHz) or antenia tower ne met um valu ions of UT wa d to he from 0 to Pea old Mod ak mod be stop wise th d one b	I at a 1GHz cosition 3 me na, wh er to f ue of the a as arra eights degre k Det de. de was ped ar e emis y one	table 0.8m(below 10 meter chamber). The table was n of the highest eters(above 1GHz) nich was mounted four meters above the field strength. antenna are set to anged to its worst from 1 meter to 4 es to 360 degrees sect Function and a 10 dB lower than nd the peak values ssions that did not using peak, quasi- reported in a data
Test setup:		10m 4m 4m 0.8m 1m Am 1m Am 1m Am 1m Am 1m Am 1m Am 1m Am Am Am Am Am Am Am Am Am A			S A RF	Antenna To earch intenna Test ceiver —	ower

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	Above 1GHz
	AE EUT Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver Free Controller
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report.



Measurement Data (worst case):

Below 1GHz:

Product Name: Test By: Test Frequency: Test Voltage:		SMART PI	SMART PHONEMike30 MHz ~ 1 GHzAC 120V/60Hz			del:	Elite P55Max		
		Mike				Polarization:		BLE Tx mode Vertical Temp.: 24°C Humi.: 57%	
		30 MHz ~							
		AC 120V/6							
Level(dEµV/m]	120 110 90 80 70 60 50 40 30 20 10 0 30M → QP Limit ◆ QP Detect		100M	FCC PART			FCC PART 15	247-QP Limit	
Suspe	ected Data	List							
NO.	Freq. [MHz]	Reading[d BµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity	
1	48.5289	29.57	14.76	-14.81	40.00	25.24	PK	Vertical	
2	83.9374	34.22	16.76	-17.46	40.00	23.24	PK	Vertical	
	115.950	27.46	11.88	-15.58	43.50	31.62	PK	Vertical	
3	302.209	30.21	17.56	-12.65	46.00	28.44	PK	Vertical	
	002.200		22.02	-6.77	46.00	23.08	PK	Mantiant	
3	553.561	29.69	22.92					Vertical	
3 4		29.69 29.73	22.92	-0.87	54.00	25.14	PK	Vertical	



Report No.: JYTSZB-R12-2102547

Product Name:		SMART PI	SMART PHONE		Product Model:		Elite P55Ma	(
Test By: Test Frequency:		Mike	Mike		Test mode:		BLE Tx mode		
		30 MHz ~	30 MHz ~ 1 GHz			Polarization:		Horizontal	
Test Vol	tage:	AC 120V/6	AC 120V/60Hz			Environment:		Temp.: 24°C Humi.: 57%	
Level[dB _L V/m]	120 110 100 90 80 70 60 50 40 30 20 10 0 30M QP Limit • QP Detector	tor		FCC PART			FCC PAR	15247-QP Limit	
Suspe									
NO.	Freq. [MHz]	Reading[d BµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity	
1	49.8870	28.83	14.11	-14.72	40.00	25.89	PK	Horizontal	
2	57.5508	28.03	13.21	-14.82	40.00	26.79	PK	Horizontal	
3	107.995	31.84	15.90	-15.94	43.50	27.60	PK	Horizontal	
4	250.018	30.85	17.06	-13.79	46.00	28.94	PK	Horizontal	
5	528.047	30.88	24.00	-6.88	46.00	22.00	PK	Horizontal	
6	897.072	37.94	36.56	-1.38	46.00	9.44	PK	Horizontal	
Remark:		eiver Read leve	el + Factor(Ante	anna Factor I	Cabla Laga	Droomplifior	Factor		



Above 1GHz

		Test ch	annel: Lowest cł	nannel						
			tector: Peak Valu							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4804.00	57.41	-10.39	47.02	74.00	-26.98	Vertical				
4804.00	53.55	-10.39	43.16	74.00	-30.84	Horizontal				
		Dete	ctor: Average Va	alue						
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4804.00	52.18	-10.39	41.79	54.00	-12.21	Vertical				
4804.00	47.12	-10.39	36.73	54.00	-17.27	Horizontal				
			annel: Middle ch							
		De	tector: Peak Valu							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4882.00	56.18	-10.15	46.03	74.00	-27.97	Vertical				
4882.00	53.13	-10.15	42.98	74.00	-31.02	Horizontal				
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4882.00	53.07	-10.15	42.92	54.00	-11.08	Vertical				
4882.00	48.69	-10.15	38.54	54.00	-15.46	Horizontal				
		Test sh	annalı Highaat a							
			annel: Highest cl tector: Peak Valu							
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4960.00	57.36	-9.91	47.45	74.00	-26.55	Vertical				
4960.00	52.84	-9.91	42.93	74.00	-31.07	Horizontal				
Detector: Average Value										
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization				
4960.00	52.77	-9.91	42.86	54.00	-11.14	Vertical				
4960.00	47.32	-9.91	37.41	54.00	-16.59	Horizontal				
Remark: 1. Final Level =F	Receiver Read level	+ Factor.								

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