

🧲 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE180601502

FCC REPORT (BLE)

Applicant: One Diamond Electronics INC.

Address of Applicant: 1450 Frazee Road, Suite 303 San Diego, CA 92108

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: PSPTD21NA

Trade mark: Polaroid

FCC ID: 2ADWUPSPTD21NA

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

Date of sample receipt: 05 Jun., 2018

Date of Test: 05 Jun., to 28 Jun., 2018

Date of report issued: 28 Jun., 2018

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	28 Jun., 2018	Original

Tested by: Zora Lee Date: 28 Jun., 2018

Test Engineer

Reviewed by: Date: 28 Jun., 2018

Project Engineer



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4 Test Summary

Section in CFR 47	Result
15.203 & 15.247 (c)	Pass
15.207	Pass
15.247 (b)(3)	Pass
15.247 (a)(2)	Pass
15.247 (e)	Pass
15.247 (d)	Pass
15.205 & 15.209	Pass
	15.203 & 15.247 (c) 15.207 15.247 (b)(3) 15.247 (a)(2) 15.247 (e) 15.247 (d)

Pass: The EUT complies with the essential requirements in the standard.

N/A: Not Applicable.



5 General Information

5.1 Client Information

Applicant:	One Diamond Electronics INC.
Address:	1450 Frazee Road, Suite 303 San Diego, CA 92108
Manufacturer:	Mobot Technology CO., Ltd.
Address:	3/F, Building 14A, Taihua Wutong Island Industrial Zone, Shunchang Road, Gushu, Xixiang Street

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	PSPTD21NA
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:	Model: PSP10A
	Input: AC100-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 1000mA

Operation	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 test 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	

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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)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Laboratory Facility

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

• FCC - Registration No.: 727551

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

IC - Registration No.: 10106A-1

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.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

• 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

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, 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. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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5.8 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
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

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	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:

FCC Part 15 C Section 15.203 /247(c)

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(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

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.



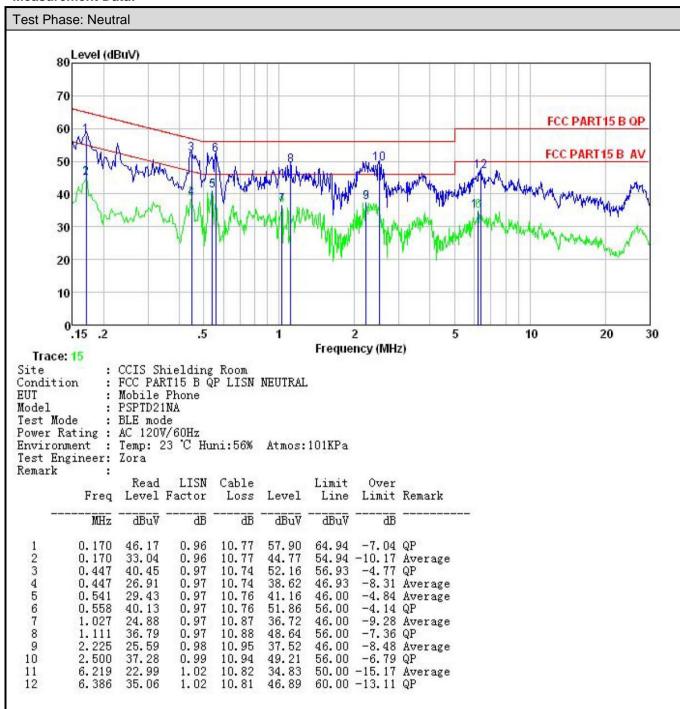


6.2 Conducted Emission

Test procedure Test procedure Test procedure 1. The E.U.T and simulators are connected to the main power the line impedance stabilization network (L.I.S.N.), which prosonm/50uH coupling impedance for the measuring equipmer a LISN that provides a 50ohm/50uH coupling impedance with termination. (Please refer to the block diagram of the test substituted interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX Equipment E.U.T Filter AC power EMI Receiver				
Test Frequency Range: 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 5-30 60 50 * Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power to line impedance stabilization network (L.I.S.N.), which proceed the measuring equipment at LISN that provides a 500hm/50uH coupling impedance for the measuring equipment at LISN that provides a 500hm/50uH coupling impedance with termination. (Please refer to the block diagram of the test sometimes photographs). 3. Both sides of A.C. line are checked for maximum content interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX Equipment LISN Filter AC power	Test Requirement:	FCC Part 15 C Section 15.	.207	
Class / Severity: Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 44 0.5-5 50 60 0 50 * Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power to line impedance stabilization network (L.I.S.N.), which profoom for the measuring equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Class B RBW=9kHz, VBW=30kHz Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 44 0.5 60 to 50 Test procedure 1. The E.U.T and simulators are connected to the main power to line impedance stabilization network (L.I.S.N.), which profoom for the measuring equipment a LISN that provides a 50ohm/50uH coupling impedance with termination. (Please refer to the block diagram of the test sometime photographs). 3. Both sides of A.C. line are checked for maximum continterference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX Equipment E.U.T EMI Receiver	Test Method:	ANSI C63.10: 2013		
Receiver setup: RBW=9kHz, VBW=30kHz	Test Frequency Range:	150 kHz to 30 MHz		
Limit: Frequency range (MHz)	Class / Severity:	Class B		
Test procedure Test procedure Test procedure Test procedure Test procedure Test procedure Decreases with the logarithm of the frequency. Test procedure Test procedure	Receiver setup:	RBW=9kHz, VBW=30kHz		
Test procedure Decreases with the logarithm of the frequency. Test procedure Test procedure	Limit:	(MII-)	Limit	(dBuV)
Test procedure 1. The E.U.T and simulators are connected to the main power t line impedance stabilization network (L.I.S.N.), which procedure 2. The peripheral devices are also connected to the main power a LISN that provides a 50ohm/50uH coupling impedance wit termination. (Please refer to the block diagram of the test s photographs). 3. Both sides of A.C. line are checked for maximum continterference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX E.U.T Test table/Insulation plane	·			Average
Test procedure 1. The E.U.T and simulators are connected to the main power to line impedance stabilization network (L.I.S.N.), which prosobnth/50uH coupling impedance for the measuring equipmer 2. The peripheral devices are also connected to the main power a LISN that provides a 50ohm/50uH coupling impedance wit termination. (Please refer to the block diagram of the test significant photographs). 3. Both sides of A.C. line are checked for maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane Comparison Comparison				56 to 46*
* Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power to line impedance stabilization network (L.I.S.N.), which provides a substitution of the measuring equipmer a LISN that provides a 50ohm/50uH coupling impedance with termination. (Please refer to the block diagram of the test substitution), photographs). 3. Both sides of A.C. line are checked for maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX Equipment LISN Filter AC power EMI Receiver	<u> </u>			
Test procedure 1. The E.U.T and simulators are connected to the main power to line impedance stabilization network (L.I.S.N.), which prospond to supplied the measuring equipmer solonhm/50uH coupling impedance for the measuring equipmer a LISN that provides a 50ohm/50uH coupling impedance with termination. (Please refer to the block diagram of the test solontographs). 3. Both sides of A.C. line are checked for maximum or interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX Equipment LISN Filter AC power EMI Receiver	-		~ ~ ~	50
line impedance stabilization network (L.I.S.N.), which pro 50ohm/50uH coupling impedance for the measuring equipmer 2. The peripheral devices are also connected to the main power a LISN that provides a 50ohm/50uH coupling impedance wit termination. (Please refer to the block diagram of the test s photographs). 3. Both sides of A.C. line are checked for maximum or interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX Equipment E.U.T Filter AC power EMI Receiver				
LISN 40cm 80cm Filter AC power Equipment EMI Receiver	l est procedure	line impedance stab 50ohm/50uH coupling 2. The peripheral device a LISN that provides termination. (Please uphotographs). 3. Both sides of A.C. interference. In orde positions of equipment	pilization network (L.I.S) impedance for the means are also connected to a 500hm/50uH coupling refer to the block diagral line are checked four to find the maximum and all of the interface	suring equipment. the main power through impedance with 500hm am of the test setup and remaximum conducted a emission, the relative cables must be changed
AUX Equipment E.U.T EMI Receiver	Test setup:	Refere	nce Plane	
Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m		AUX Equipment Test table/Insulation pla Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilizatio.	J.T Filter EMI Receiver	AC power
Test Instruments: Refer to section 5.8 for details	Test Instruments:	Refer to section 5.8 for det	tails	
Test mode: Refer to section 5.3 for details	Test mode:	Refer to section 5.3 for det	tails	
Test results: Passed	Test results:	Passed		



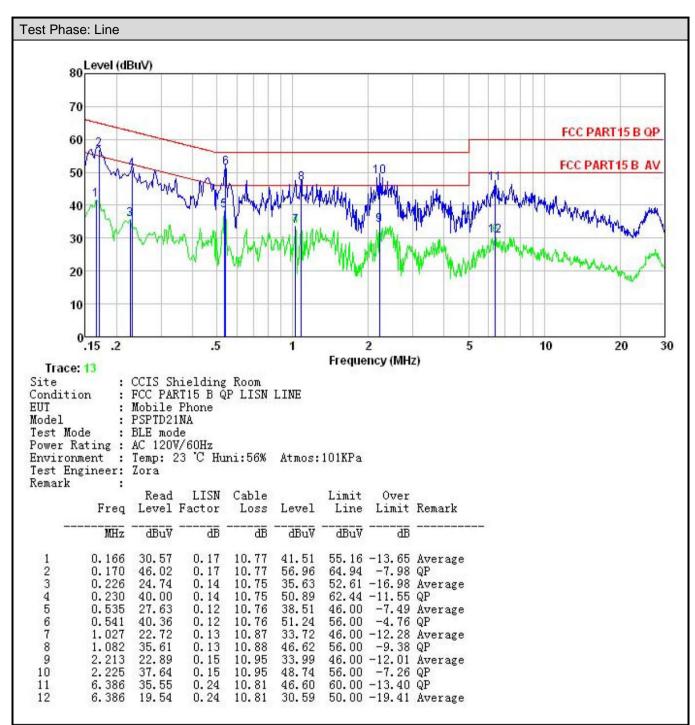
Measurement Data:



Notes

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





Notes:

- 1. An initial pre-scan was performed on the live 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 + Cable Loss.



6.3 Conducted Output Power

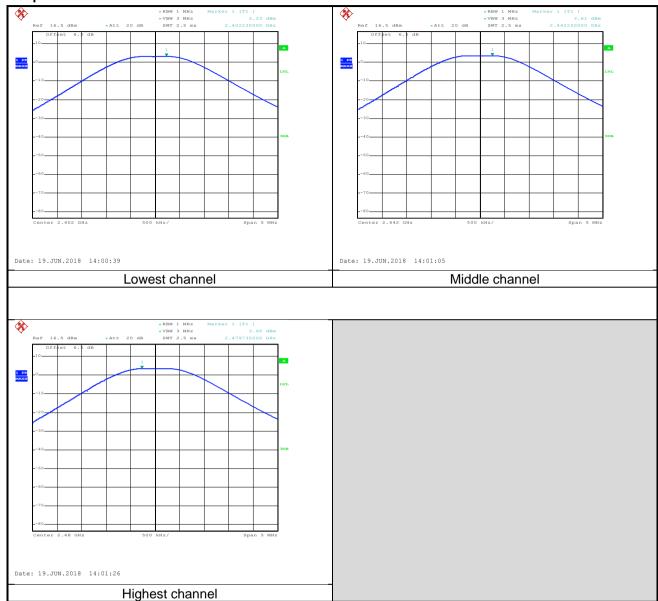
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)	
Test Method:	ANSI C63.10:2013 and KDB 558074	
Limit:	30dBm	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.8 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Passed	

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	3.23		
Middle	3.61	30.00	Pass
Highest	3.60		



Test plot as follows:





6.4 Occupy Bandwidth

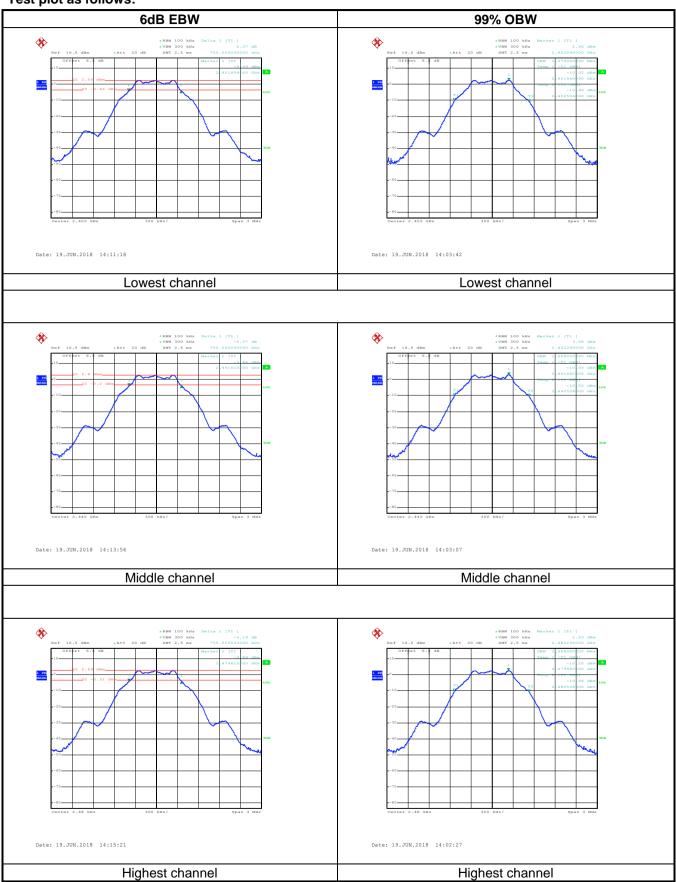
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)				
Test Method:	ANSI C63.10:2013 and KDB 558074				
Limit:	>500kHz				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.750		Pass	
Middle	0.750	>500		
Highest	0.750			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.074			
Middle	1.068	N/A	N/A	
Highest	1.068			



Test plot as follows:





6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)				
Test Method:	ANSI C63.10:2013 and KDB 558074				
Limit:	8 dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

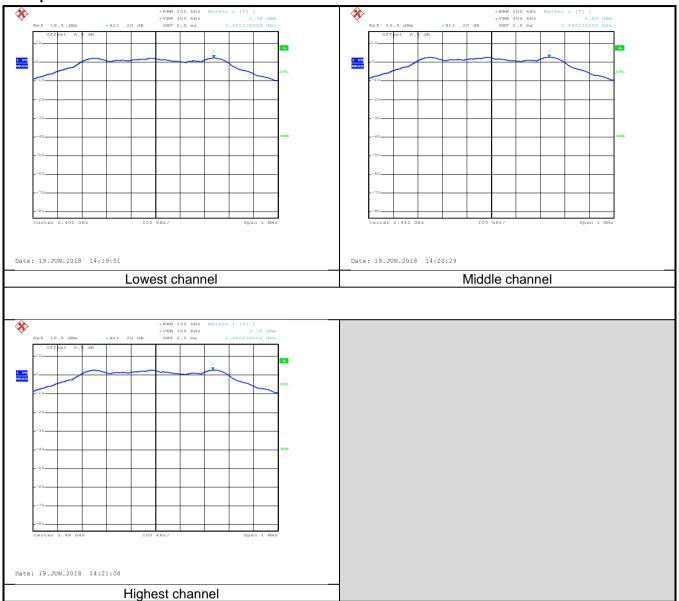
Measurement Data:

Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	2.34		
Middle	2.82	8.00	Pass
Highest	2.75		





Test plots as follow:





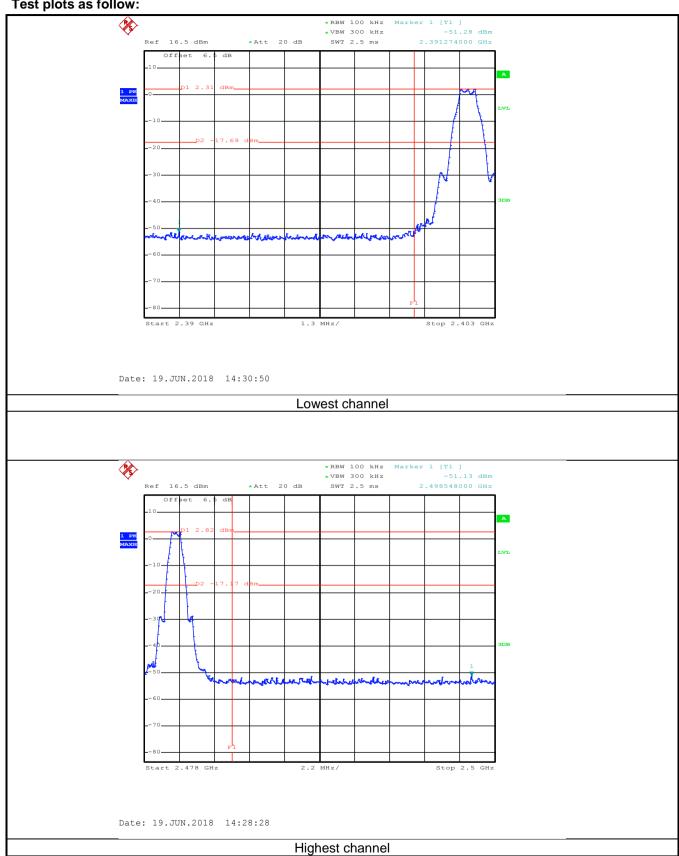
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB 558074					
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 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					



Test plots as follow:



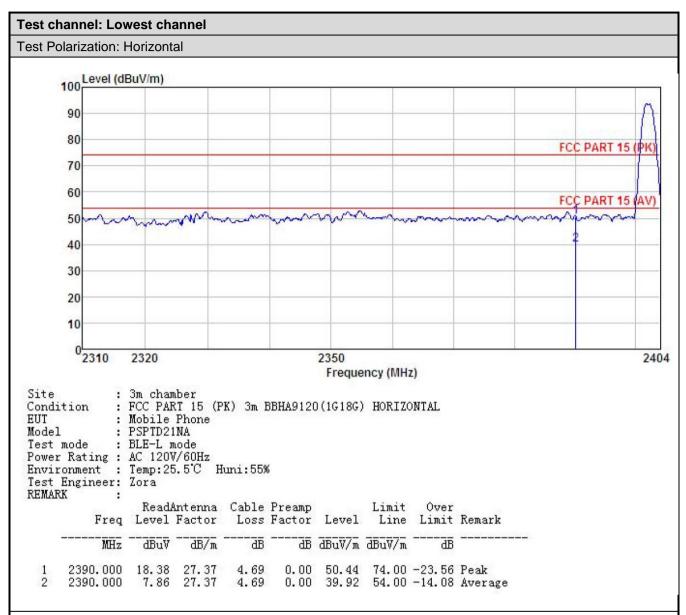




6.6.2 Radiated Emission Method

<u>6.6.2</u>	6.2 Radiated Emission Method								
	Test Requirement:	FCC Part 15 C Section 15.205 and 15.209							
	Test Method:	ANSI C63.10: 2013 and KDB 558074							
	Test Frequency Range:	2.3GHz to 2.5GHz							
	Test Distance:	3m							
	Receiver setup:	Frequency	Detecto				/BW	Remark	
		Above 1GHz	Above 1GHz		1MHz	3MHz 3MHz		Peak Value	
	Limit:	Freque		l in	nit (dBuV/m @3		IVITIZ	Average Value Remark	
	Lillit.		Above 1GHz 54.00		,	Average Value			
					74.00		Peak Value		
	Test Procedure:	 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 value 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, quas peak or average method as specified and then reported in a data 						ed 360 degrees ce-receiving e-height antenna meters above eld strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees nction and 0 dB lower than I the peak values ons that did not sing peak, quasi-	
	Test setup:	A A A A A A A A A A A A A A A A A A A	Turntable)	Ground I	Horn Antenna Reference Plane Pre- Amplifier Contr	Antenna T	Tower		
	Test Instruments:	Refer to section	on 5.8 for de	etails	s				
	Test mode:	Refer to section 5.3 for details							
	Test results:	Passed							

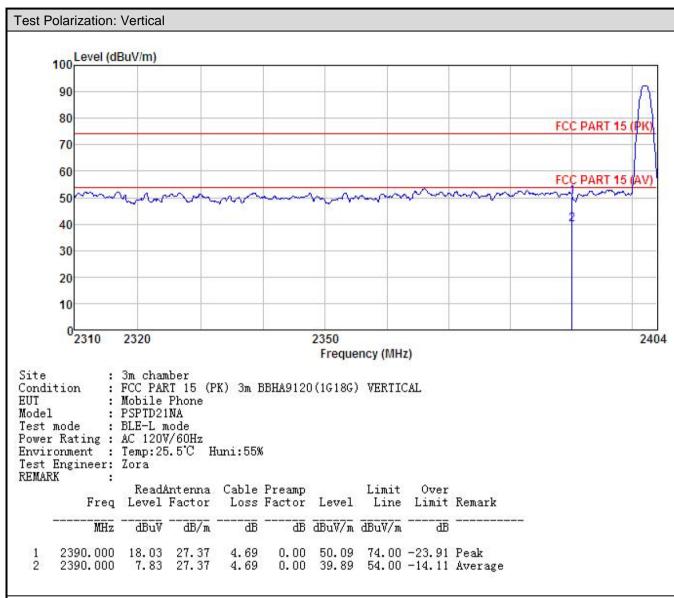




1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

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

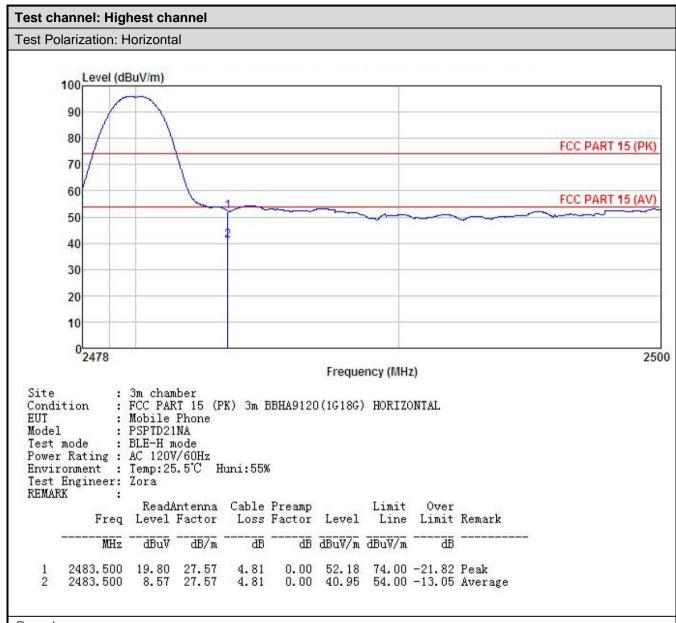




1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

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

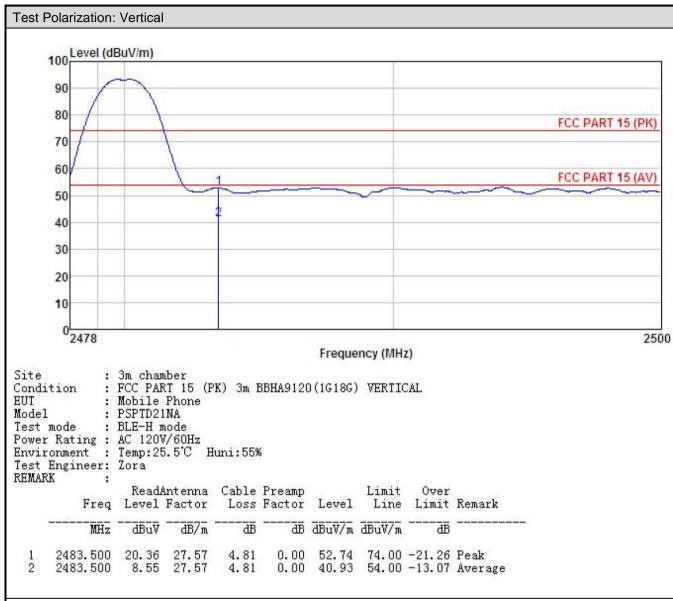




1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

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





1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

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



6.7 Spurious Emission

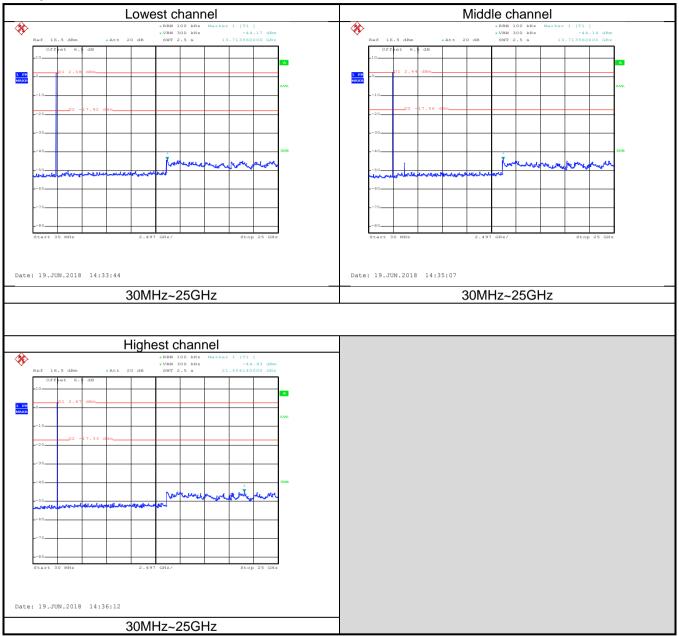
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB 558074					
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 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					





Test plot as follows:

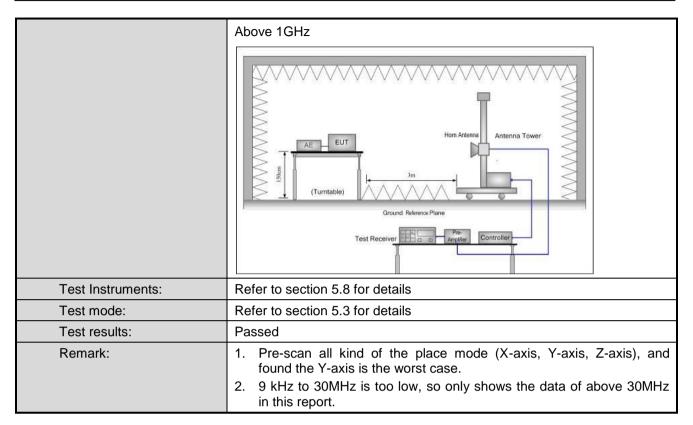




6.7.2 Radiated Emission Method

6.7.2 Radiated Emission N	<u>/lethod</u>					
Test Requirement:	FCC Part 15 C Section 15.205 and 15.209					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	9kHz to 25GHz					
Test Distance:	3m					
Receiver setup:	Frequency Detector RBW			VE	3W	Remark
·	30MHz-1GHz	Quasi-pea	k 120KHz	300	KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz		lHz	Peak Value
		RMS	1MHz		lHz T	Average Value
Limit:					Remark	
	30MHz-88M		40.0 43.5			Quasi-peak Value
	88MHz-216M 216MHz-960N		46.0			Quasi-peak Value Quasi-peak Value
	960MHz-1G		54.0			Quasi-peak Value
			54.0			Average Value
	Above 1GF	lz	74.0			Peak Value
Test Procedure:	1GHz)/1.5r The table of highest rad 2. The EUT santenna, we tower. 3. The antenre the ground Both horizon make the meters and to find the meters and the limit specified Below 10 december	n(above 10 was rotated iation. was set 3 hich was mana height is to determental and versuspected eighen the antiquent of the rota tamaximum resciver system and width was ion level of ecified, ther would be a margin wo	GHz) above the 360 degrees meters away nounted on the serviced from the ine the maximum tertical polarizant. The ine was turned adding. The ine the EUT in point testing could reported. Othe bull be re-tested.	from the top of a cone met one met one determined to he determined to he deak more be stoperwise the deak one be stoperwise the d	d at a rmine of the interest of the a cas arraceights degreed are the cas arraceights degreed are emissy one	table 0.8m(below a 3 meter camber. the position of the efference-receiving ble-height antenna four meters above the field strength. Intenna are set to anged to its worst from 1 meter to 4 es to 360 degrees eect Function and a 10 dB lower than and the peak values assions that did not using peak, quasi-reported in a data
Test setup:	EUT	4m			Antenna Search Antenn Test ceiver —	1



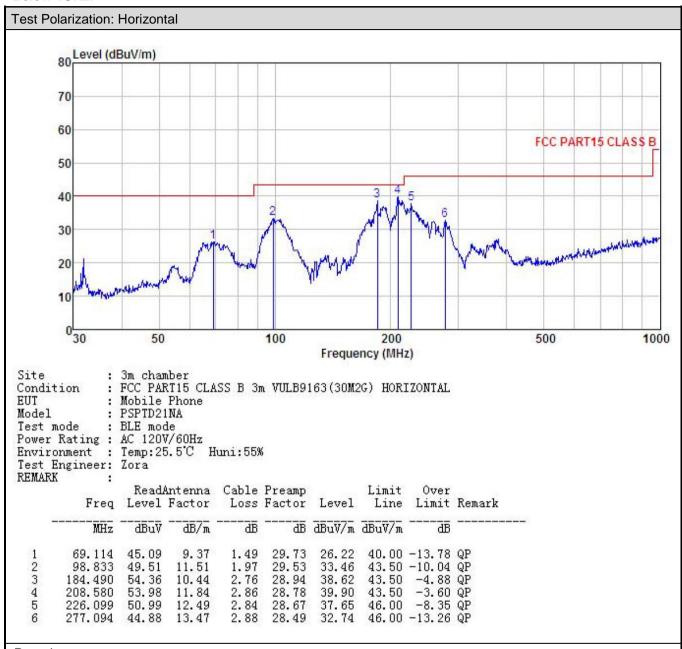






Measurement Data (worst case):

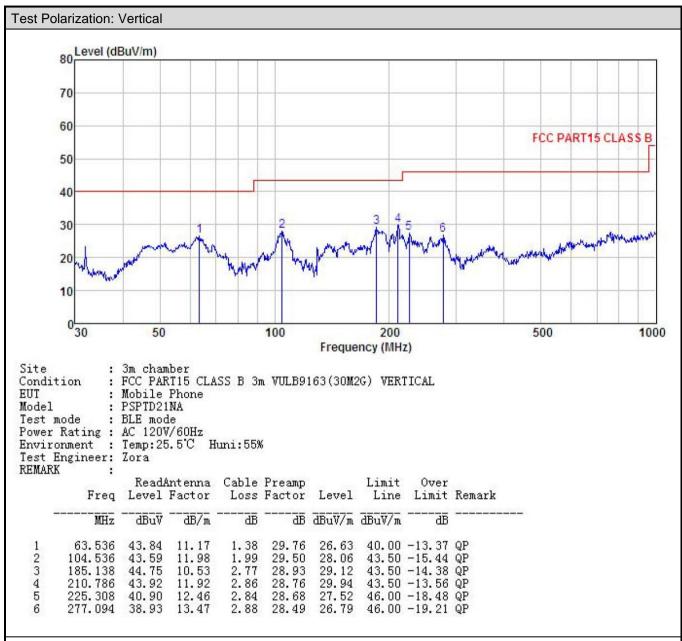
Below 1GHz:



Remark:

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





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



Above 1GHz

Above 1GHz										
				annel: Lowe						
Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	46.84	30.85	6.80	41.81	42.68	74.00	-31.32	Vertical		
4804.00	45.63	30.85	6.80	41.81	41.47	74.00	-32.53	Horizontal		
	Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4804.00	36.13	30.85	6.80	41.81	31.97	54.00	-22.03	Vertical		
4804.00	35.71	30.85	6.80	41.81	31.55	54.00	-22.45	Horizontal		
			Test ch	annel: Mido	lle channel					
		1		tector: Peak	Value		ı			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)			Polarization		
4884.00	47.66	31.20	6.86	41.84	43.88	74.00	-30.12	Vertical		
4884.00	46.98	31.20	6.86	41.84	43.20	74.00	-30.80	Horizontal		
			Dete	ctor: Averaç	ge Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4884.00	37.48	31.20	6.86	41.84	33.70	54.00	-20.30	Vertical		
4884.00	36.25	31.20	6.86	41.84	32.47	54.00	-21.53	Horizontal		
			Test ch	annel: Highe	est channel					
			De	tector: Peak	Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	46.23	31.63	6.91	41.87	42.90	74.00	-31.10	Vertical		
4960.00	46.96	31.63	6.91	41.87	43.63	74.00	-30.37	Horizontal		
			Dete	ctor: Averaç	ge Value					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level Limit Line Over (dBuV/m) (dBuV/m) Limit (dB)		Over Limit (dB)	Polarization		
4960.00	36.05	31.63	6.91	41.87	32.72	54.00	-21.28	Vertical		
4960.00	37.12	31.63	6.91	41.87	33.79	54.00	-20.21	Horizontal		
i e										

Remark:

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