

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE161100702

FCC REPORT

(BLE)

Applicant: i-Mobile Technology corporation

Address of Applicant: 3F #8 Alley 15 Lane 120 Sec. 1 Neihu Road, Neihu District,

Taipei City 114, Taiwan

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: IMT-10PLUS

Trade mark: @mobile

FCC ID: XZO-IMT-10PLUS

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

Date of sample receipt: 02 Nov., 2016

Date of Test: 02 Nov., to 14 Dec., 2016

Date of report issued: 14 Dec., 2016

Test Result: PASS *

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.

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





2 Version

Version No.	Date	Description
00	14 Nov., 2016	Original

Tested by:

Date: 14 Nov., 2016

Test Engineer

Reviewed by: Date: 14 Nov., 2016

Project Engineer

Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



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4 Test Summary

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

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



5 General Information

5.1 Client Information

Applicant:	i-Mobile Technology corporation
Address of Applicant:	3F #8 Alley 15 Lane 120 Sec. 1 Neihu Road , Neihu District ,Taipei City 114 ,Taiwan
Manufacturer and Factory:	i-Mobile Technology corporation
Address of Manufacturer and Factory:	3F #8 Alley 15 Lane 120 Sec. 1 Neihu Road , Neihu District ,Taipei City 114 ,Taiwan

5.2 General Description of E.U.T.

Product Name:	Tablet PC	
Model No.:	IMT-10PLUS	
Operation Frequency:	2402-2480 MHz	
Channel numbers:	40	
Channel separation:	2 MHz	
Modulation technology:	GFSK	
Data speed :	1Mbps	
Antenna Type:	Internal Antenna	
Antenna gain:	2.04 dBi	
Power supply:	Rechargeable Li-ion Battery DC10.8Vx2, 3400mAh/pcs	
AC adapter:	Model: ATS065S-P160 LPS	
	Input: AC100-240V 50/60Hz 1.4A	
	Output: DC 16V, 4.07A	



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, and the selected channel see below:

Channel	Frequency	
The lowest channel	2402MHz	
The middle channel	2442MHz	
The Highest channel	2480MHz	



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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:	Test mode:				
Operation mode Keep the EUT in continuous transmitting with modulation					

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 Measurement Uncertainty

Items	Expanded Uncertainty (Confidence of 95%)	
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)	
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)	
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)	
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)	
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)	

5.5 Laboratory Facility

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

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• 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.

5.6 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

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



5.7 Test Instruments list

Rad	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017	
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-25-2016	03-25-2017	
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-25-2016	03-25-2017	
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2016	03-31-2017	
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2016	03-31-2017	
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2016	03-31-2017	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2016	03-31-2017	
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2016	03-28-2017	
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2016	03-28-2017	
10	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2016	03-31-2017	
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
12	Coaxial Cable	N/A	N/A	CCIS0018	04-01-2016	03-31-2017	
13	Coaxial Cable	N/A	N/A	CCIS0020	04-01-2016	03-31-2017	

Con	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017	
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-24-2016	03-24-2017	
3	LISN	CHASE	MN2050D	CCIS0074	03-26-2016	03-26-2017	
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2016	03-31-2017	
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FC0

FCC Part 15 C Section 15.203 /247(c)

15.203 requirement:

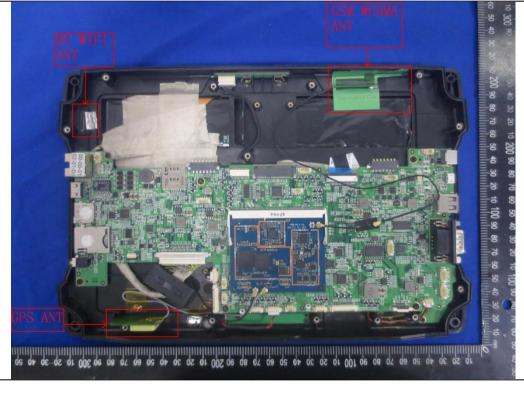
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 2.04 dBi.







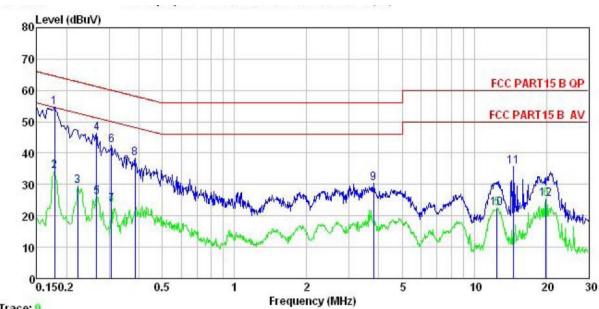
6.2 Conducted Emission

0.2	Conducted Enlices	- 11		
	Test Requirement:	FCC Part 15 C Section 15.207		
	Test Method:	ANSI C63.4: 2014		
	Test Frequency Range:	150 kHz to 30 MHz		
	Class / Severity:	Class B		
	Receiver setup:	RBW=9kHz, VBW=30kHz		
	Limit:	Frequency range (MHz)	Limit	(dBuV)
		, , ,	Quasi-peak	Average
		0.15-0.5	66 to 56*	56 to 46*
		0.5-5	56	46
		5-30	60	50
		* Decreases with the logar		
	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 C63.4: 2014 on conducted measurement. 		
	Test setup:	LISN	E.U.T EMI Receiver	ilter — AC power
	Test Instruments:	Refer to section 5.7 for det	tails	
	Test mode:	Refer to section 5.3 for details		
	Test results:	Passed		



Measurement Data:

Neutral:



Trace: 9

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

: Tablet PC : IMT-10 Plus EUT Model Test Mode : BLE mode

Power Rating: AC120/60Hz Environment: Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: MT

Remark

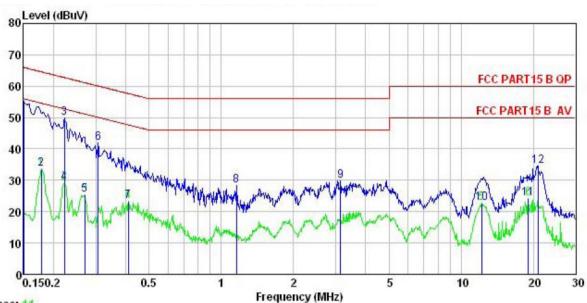
Kemark	:								
	F	Read	LISN	Cable	T 7	Limit	Over	P1	
	Freq	rever	Factor	Loss	Level	Line	Limit	Remark	
	MHz	dBu∀	₫B	₫B	dBu∜	dBu∀	₫B		
1	0.178	43.57	0.14	10.77	54.48	64.59	-10.11	QP	
2	0.178	23.26	0.14	10.77	34.17	54.59	-20.42	Average	
3	0.222	18.71	0.16	10.75	29.62	52.74	-23.12	Average	
4	0.266	35.31	0.18	10.75	46.24	61.25	-15.01	QP	
5	0.266	15.00	0.18	10.75	25.93	51.25	-25.32	Average	
6	0.307	31.65	0.19	10.74	42.58	60.06	-17.48	QP	
1 2 3 4 5 6 7 8 9	0.307	12.74	0.19	10.74	23.67	50.06	-26.39	Average	
8	0.385	27.56	0.22	10.72	38.50	58.17	-19.67	QP	
9	3.799	19.20	0.33	10.90	30.43	56.00	-25.57	QP	
10	12.449	11.40	0.25	10.91	22.56	50.00	-27.44	Average	
11	14.594	24.45	0.26	10.90	35.61	60.00	-24.39	QP	
12	19.950	14.20	0.28	10.93	25.41	50.00	-24.59	Average	

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



Line:



Trace: 11

Site : CCIS Shielding Room Condition : FCC PART15 B QP LISN LINE

EUT : Tablet PC
Model : IMT-10 Plus
Test Mode : BLE mode
Power Rating : AC120/60Hz

Power Rating: AC120/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: MT

Remark

ROMALE	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	dB	₫B	dBu₹	dBu∜	<u>dB</u>	
1	0.150	44.14	0.14	10.78	55.06	66.00	-10.94	QP
2	0.178	22.81	0.15	10.77	33.73	54.59	-20.86	Average
3	0.222	38.86	0.15	10.75	49.76	62.74	-12.98	QP
1 2 3 4 5 6 7 8 9	0.222	18.31	0.15	10.75	29.21	52.74	-23.53	Average
5	0.270	14.43	0.16	10.75	25.34	51.12	-25.78	Average
6	0.307	30.97	0.17	10.74	41.88	60.06	-18.18	QP
7	0.410	12.26	0.24	10.72	23.22	47.64	-24.42	Average
8	1.160	17.15	0.27	10.89	28.31	56.00	-27.69	QP
9	3.140	18.67	0.33	10.91	29.91	56.00	-26.09	QP
10	12.188	11.52	0.28	10.92	22.72	50.00	-27.28	Average
11	19.021	13.06	0.32	10.92	24.30	50.00	-25.70	Average
12	20.924	23.40	0.34	10.92	34.66	60.00	-25.34	QP

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



6.3 Conducted Output Power

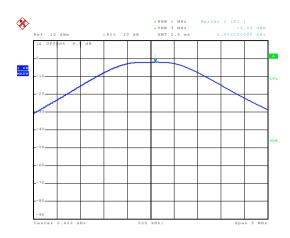
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)						
Test Method:	NSI C63.10:2013 and KDB558074v03r05 section 9.1.1						
Limit:	30dBm						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	-2.05		
Middle	-1.65	30.00	Pass
Highest	-1.87		

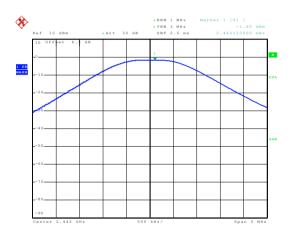


Test plot as follows:



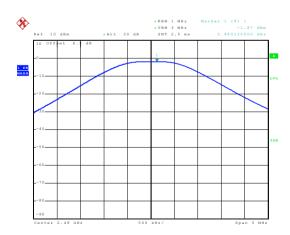
Date: 7.NOV.2016 17:25:35

Lowest channel



Date: 7.NOV.2016 17:26:02

Middle channel



Date: 7.NOV.2016 17:28:04

Highest channel



6.4 Occupy Bandwidth

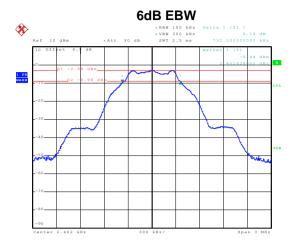
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)						
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 8.1						
Limit:	>500kHz						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.732			
Middle	0.726	>500	Pass	
Highest	0.720			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.044			
Middle	Middle 1.032		N/A	
Highest	1.032			

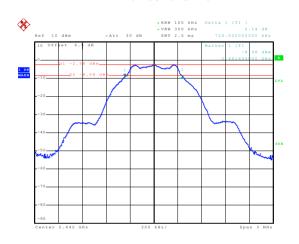


Test plot as follows:



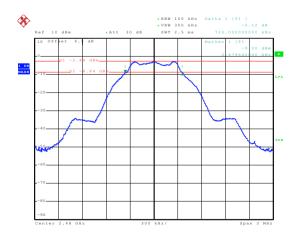
Date: 7.NOV.2016 17:32:18

Lowest channel



Date: 7.NOV.2016 17:31:09

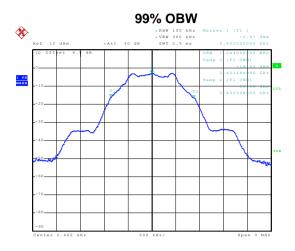
Middle channel



Date: 7.NOV.2016 17:30:00

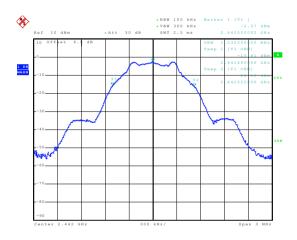
Highest channel





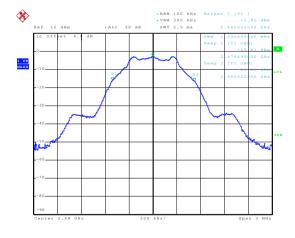
Date: 7.NOV.2016 17:35:12

Lowest channel



Date: 7.NOV.2016 17:35:31

Middle channel



Date: 7.NOV.2016 17:35:47

Highest channel



6.5 Power Spectral Density

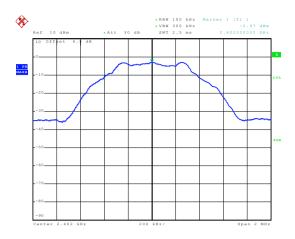
Test Requirement:	FCC Part 15 C Section 15.247 (e)					
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 10.2					
Limit:	8 dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

incucui omone Butu.								
Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result					
Lowest	-2.97							
Middle	-2.56	8.00	Pass					
Highest	-2.81							

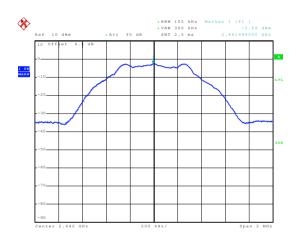


Test plots as follow:



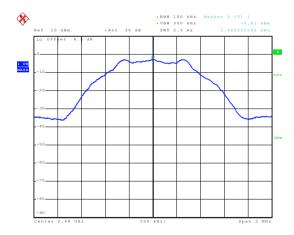
Date: 7.NOV.2016 17:38:07

Lowest channel



Date: 7.NOV.2016 17:37:05

Middle channel



Date: 7.NOV.2016 17:36:38

Highest channel



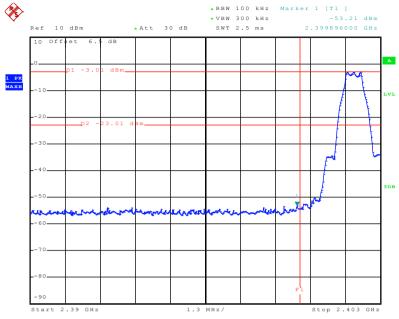
6.6 Band Edge

6.6.1 Conducted Emission Method

Toot Doguiroment	CCC Dort 15 C Continu 15 017 (d)					
Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 13					
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					
	Spectrum Analyzer E.U.T Non-Conducted Table					
	Ground Reference Plane					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

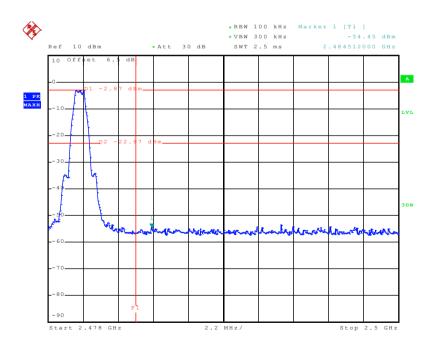


Test plots as follow:



Date: 7.NOV.2016 17:40:44

Lowest channel



Date: 7.NOV.2016 17:41:45

Highest channel



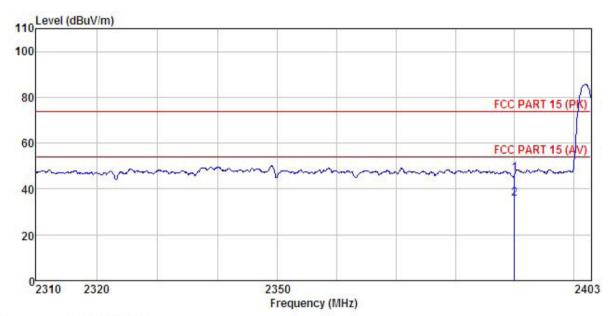
6.6.2 Radiated Emission Method

Limit: Frequency	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark Above 1GHz 54.00 Average Value Above 1GHz 54.00 Peak Value Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasipeak or average method as specified and then reported in a data sheet. Test setup: Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details	Test Method:	ANSI C63.10: 2013 and KDB 558074v03r05 section 12.1						
Receiver setup: Frequency Detector RBW VBW Remark	Test Frequency Range:	2.3GHz to 2.5GHz						
Above 1GHz RMS 1MHz 3MHz Peak Value RMS 1MHz 3MHz Peak Value RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark Above 1GHz 74.00 Peak Value Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. Test setup: Test setup: Refer to section 5.7 for details Refer to section 5.3 for details	Test site:	Measurement	Distance: 3n	n				
Above 1GHz RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark Above 1GHz 74.00 Average Value Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasipeak or average method as specified and then reported in a data sheet. Test setup: Refer to section 5.7 for details Refer to section 5.3 for details	Receiver setup:	Frequency	Detector	RBW	V	'BW	Remark	
Limit: Frequency Limit (dBuV/m @3m) Aemark Above 1GHz 74.00 Average Value 74.00 Peak Value Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 sheet. Test setup: Refer to section 5.7 for details Refer to section 5.3 for details	'	Above 1GHz	Peak	1MHz			Peak Value	
Above 1GHz Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasipeak or average method as specified and then reported in a data sheet. Test setup: Test setup: Refer to section 5.7 for details Refer to section 5.3 for details						MHz	Average Value	
Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasipeak or average method as specified and then reported in a data sheet. Test setup: Refer to section 5.7 for details Refer to section 5.3 for details	Limit:	Frequen	icy I		Bm)			
Test Procedure: 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned 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. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 missions that did not have 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. Test setup: Refer to section 5.7 for details Refer to section 5.3 for details		Above 10	GHz —					
Test Instruments: Refer to section 5.7 for details Test mode: Refer to section 5.3 for details	Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 the ground at a 3 meter camber. The table was rotated to determine the position of the highest radiation. The EUT was set 3 meters away from the interference antenna, which was mounted on the top of a variable-tower. The antenna height is varied from one meter to four methe ground to determine the maximum value of the field Both horizontal and vertical polarizations of the antenre make the measurement. For each suspected emission, the EUT was arranged case and then the antenna was tuned to heights from meters and the rota table was turned from 0 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Fund Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 the limit specified, then testing could be stopped and to of the EUT would be reported. Otherwise the emission 					5 meters above ed 360 degrees ce-receiving e-height antenna meters above eld strength. In a are set to d to its worst in 1 meter to 4 is to 360 degrees inction and of dB lower than a the peak values ons that did not sing peak, quasi-	
Test mode: Refer to section 5.3 for details	Test setup:	Sileet.	AL H	Ground Reference Plane			wer	
	Test Instruments:	Refer to section 5.7 for details						
Test results: Passed	Test mode:							
1 00000	Test results:	Passed						



Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Table PC Condition

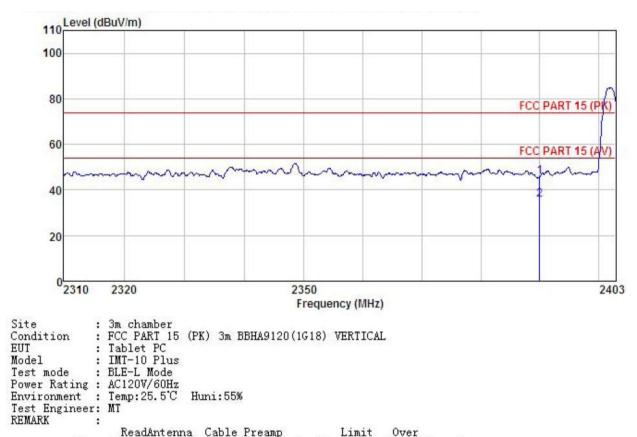
EUT : IMT-10 Plus Model Test mode : BLE-L Mode

Power Rating: AC120V/60Hz
Environment: Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK:

	Freq		Antenna Factor						Remark
	MHz	—dBu∜	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	dB	
1 2	2390.000 2390.000								



Vertical:

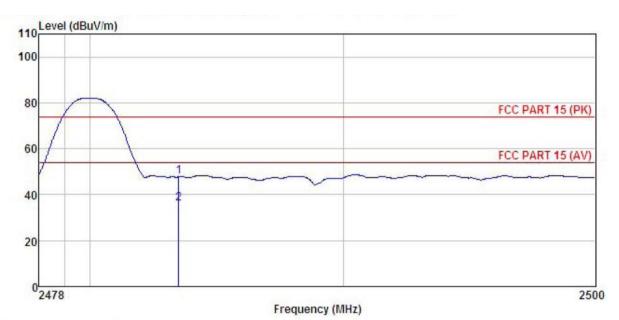


הדיחונים		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq		Factor						
	MHz	dBu∜	dB/m	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	2390.000	17.67	23.68	4.69	0.00	46.04	74.00	-27.96	Peak
2	2390.000	7.40	23.68	4.69	0.00	35.77	54.00	-18.23	Average



Test channel: Highest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet PC : IMT-10 Plus Condition

EUT Model Test mode : BLE-H Mode Power Rating : AC120V/60Hz Environment : Temp: 25.5°C

Huni: 55%

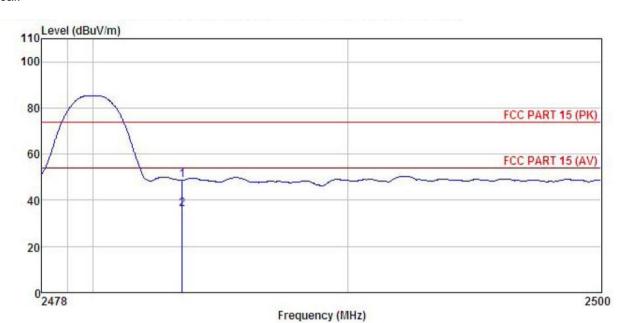
Test Engineer: MT REMARK :

1 2

Freq		Antenna Factor				Limit Line		Remark	
MHz	dBu∀	<u>dB</u> /m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>		
2483.500 2483.500									



Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Tablet PC
Model : IMT-10 Plus
Test mode : BLE-H Mode
Power Rating : AC120V/60Hz
Environment : Temp: 25 5°C Huni: 55%

Environment : Temp: 25.5°C Test Engineer: MT REMARK : Huni:55%

	Freq		Antenna Factor						
	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBu∀/m	<u>dB</u>	
1 2	2483.500 2483.500								



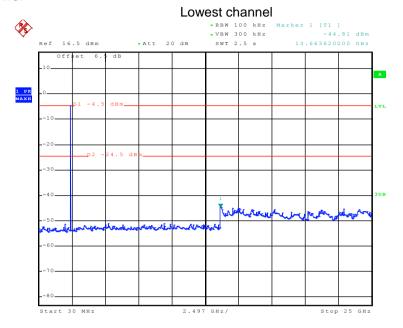
6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 11							
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 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

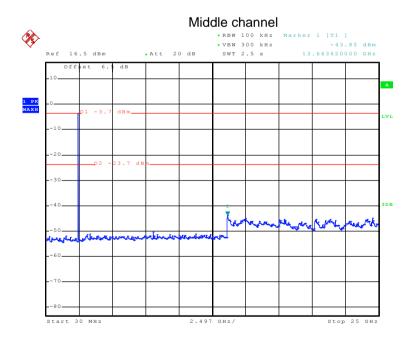


Test plot as follows:



Date: 7.NOV.2016 17:44:25

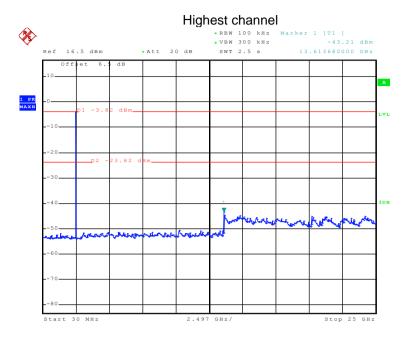
30MHz~25GHz



Date: 7.NOV.2016 17:45:20

30MHz~25GHz





Date: 7.NOV.2016 17:46:13

30MHz~25GHz



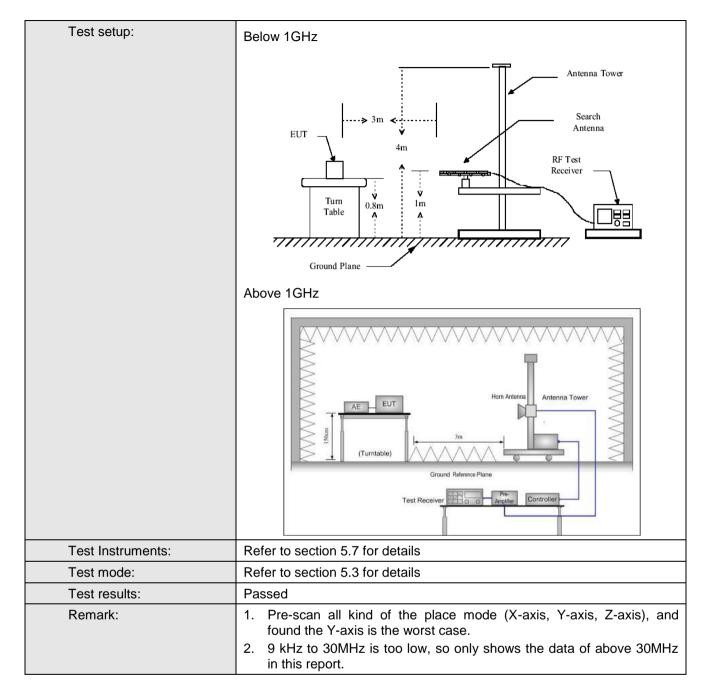


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 1	5.209	and 15.205					
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9KHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detecto	or	RBW VB		W	Remark		
·	30MHz-1GHz	Quasi-pe	eak	120KHz	300k	〈Ηz	Quasi-peak Value		
	Above 1GHz	Peak		1MHz 3MI			Peak Value		
		RMS		1MHz	3M	Hz	Average Value		
Limit:	Frequency		Lim	nit (dBuV/m @	3m)		Remark		
	30MHz-88M			40.0			luasi-peak Value		
	88MHz-216N			43.5			luasi-peak Value		
	960MHz-1G	HZ							
	Above 1GF				•				
Test Procedure:	1 The FIIT	was nlac							
rest roccure.	216MHz-960MHz						a 3 meter camber. The position of the orference-receiving ple-height antenna our meters above the field strength. The intenna are set to anged to its worst from 1 meter to 4 es to 360 degrees ect Function and a 10 dB lower than and the peak values ssions that did not using peak, quasi-		



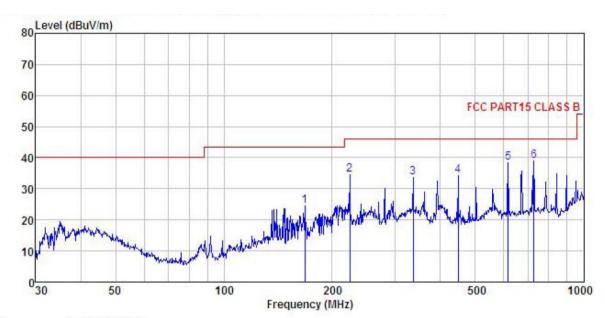






Below 1GHz:

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL Condition

EUT : Tablet PC : IMT-10 Plus : BLE Mode Model Test mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C

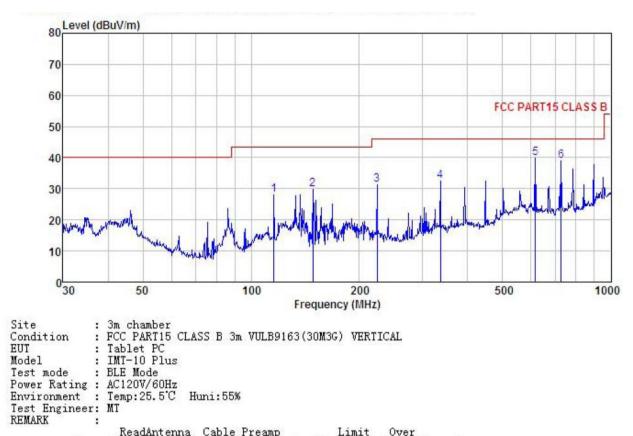
Huni:55%

Test Engineer: MT REMARK

m									
	Freq		Antenna Factor					Over Limit	Remark
-	MHz	dBuV	$-\overline{dB/m}$	₫B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	167.824	41.10	9.82	2.64	29.07	24.49	43.50	-19.01	QP
2	223.733	48.87	11.53	2.84	28.69	34.55	46.00	-11.45	QP
2	336.035	45.32	13.76	3.05	28.53	33.60	46.00	-12.40	QP
4	447.982	43.72	16.19	3.20	28.87	34.24	46.00	-11.76	QP
5	616.372	44.75	18.59	3.91	28.88	38.37	46.00	-7.63	QP
6	726, 805	43.36	19.84	4.28	28, 57	38, 91	46,00	-7.09	QP



Vertical:



x_{II}									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	dBu₹	-dB/m	dB	dB	dBuV/m	dBu√/m	<u>d</u> B	
1	115.726	44.22	11.17	2.12	29.42	28.09	43.50	-15.41	QP
2	148.441	45.85	10.84	2.50	29.23	29.96	43.50	-13.54	QP
3	223.733	45.72	11.53	2.84	28.69	31.40	46.00	-14.60	QP
4	336.035	44.06	13.76	3.05	28.53	32.34	46.00	-13.66	QP
5	616.372	46.22	18.59	3.91	28.88	39.84	46.00	-6.16	QP
6	726.805	43.45	19.84	4.28	28.57	39.00	46.00	-7.00	QP



Above 1GHz

Test channel:			Lo	Lowest		vel:	Peak	
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	48.12	35.99	6.80	41.81	49.10	74.00	-24.90	Vertical
4804.00	48.20	35.99	6.80	41.81	49.18	74.00	-24.82	Horizontal
Т	est channel	•	Lowest		Level:		Average	
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	39.47	35.99	6.80	41.81	40.45	54.00	-13.55	Vertical
4804.00	39.61	35.99	6.80	41.81	40.59	54.00	-13.41	Horizontal

Test channel:			Middle		Le	vel:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	r Loss Factor		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	49.26	36.38	6.86	41.84	50.66	74.00	-23.34	Vertical
4884.00	48.69	36.38	6.86	41.84	50.09	74.00	-23.91	Horizontal
Т	est channel		Middle		Level:		Average	
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	40.03	36.38	6.86	41.84	41.43	54.00	-12.57	Vertical
4884.00	39.48	36.38	6.86	41.84	40.88	54.00	-13.12	Horizontal

Test channel:			Highest		Le	vel:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Factor Loss		Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	48.76	36.71	6.91	41.87	50.51	74.00	-23.49	Vertical
4960.00	49.01	36.71	6.91	41.87	50.76	74.00	-23.24	Horizontal
Т	est channel	• •	Highest		Level:		Average	
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	39.47	36.71	6.91	41.87	41.22	54.00	-12.78	Vertical
4960.00	40.25	36.71	6.91	41.87	42.00	54.00	-12.00	Horizontal

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.