

Report No:CCISE160702403

FCC REPORT

(Bluetooth)

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-8 PLUS

Trade mark: @mobile

FCC ID: XZO-IMT-8PLUS

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

Date of sample receipt: 07 July., 2016

Date of Test: 07 July., to 16 Aug., 2016

Date of report issued: 16 Aug., 2016

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 CCISproduct 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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Report No: CCISE160702403

2 Version

Version No.	Date	Description
00	16 Aug., 2016	Original

Tested by: Date: 16 Aug., 2016

Test Engineer

Reviewed by: Date: 16 Aug., 2016

Project Engineer





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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)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

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

Project No.:CCISE1607024



Report No: CCISE160702403

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-8 PLUS			
Operation Frequency:	2402MHz~2480MHz			
Transfer rate:	1/2/3 Mbits/s			
Number of channel:	79			
Modulation type:	GFSK, π/4-DQPSK, 8DPSK			
Modulation technology:	FHSS			
Antenna Type:	Internal Antenna			
Antenna gain:	2.04dBi			
Power supply:	Rechargeable Li-ion Battery DC10.8V-3400mAh			
AC adapter:	Input: AC100-240V 50/60Hz 1.4A Output: DC 16.0V, 4.07A			

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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

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5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with worst case data rate.
Remark	GFSK (1 Mbps) is the worst case mode.

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 with a fresh battery, 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.

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 andfully describedin 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 Project No.: CCISE1607024

Report No: CCISE160702403



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5.7 Test Instruments list

Radia	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	4 Pre-amplifier HP (10kHz-1.3GHz)		8447D	CCIS0003	04-01-2016	03-31-2017				
5	5 Pre-amplifier Compliance Direction (1GHz-18GHz) Systems Inc.		PAP-1G18	CCIS0011	04-01-2016	03-31-2017				
6	6 Pre-amplifier Rohde & Sch		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	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				

Cond	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				

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6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:

FCC Part15 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 Bluetoothantenna is anintegral antenna which permanently attached, and the best case gain of the antenna is 2.04dBi.







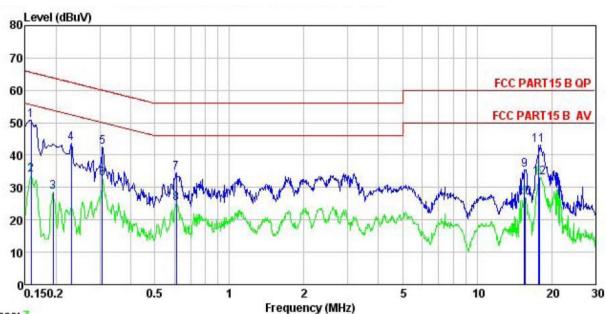
6.2 Conducted Emissions

<u> </u>								
	Test Requirement:	FCC Part15 C Section 15.207						
	Test Method:	ANSI C63.4:2014						
	Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz					
	Class / Severity:	Class B						
	Receiver setup:	RBW=9kHz, VBW=30kHz, Sweep time=auto						
	Limit:	Frequency range Limit (dBuV)						
		(MHz)	Quasi-peak	Average				
		0.15-0.5	56 to 46*					
		0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46						
		5-30 60 50						
		* Decreases with the log	arithm of the frequency.					
	Test setup:	Reference	Plane					
		AUX Equipment E.U.T EMI Receiver Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
	Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). This 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 Instruments:	Refer to section 5.7 for d	letails					
	Test mode:	Bluetooth (Continuous tr	ansmitting) mode					
	Test results:	Pass						
_	-	-						



Measurement Data:

Line:



Trace: 7

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : Tablet P.C Site Condition

EUT : IMT-8 Plus Model Test Mode : BT mode Power Rating : AC120/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Peter

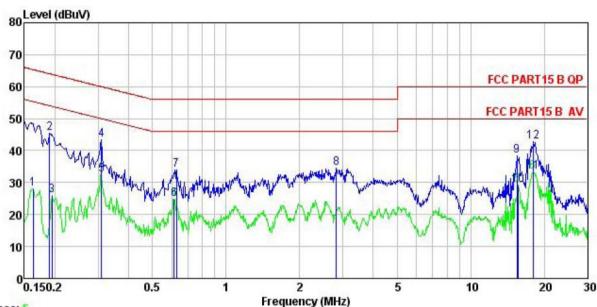
emark	•					20000	024155.0	
	-	Read		Cable		Limit	Over	D 1
	Freq	rever	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	₫B	₫B	dBu₹	dBu∀	dB	
1	0.158	39.92	0.14	10.78	50.84	65.56	-14.72	QP
2	0.158	23.16	0.14	10.78	34.08	55.56	-21.48	Average
3	0.194	17.65	0.15	10.76	28.56	53.84	-25.28	Average
4	0.230	32.72	0.15	10.75	43.62	62.44	-18.82	QP
2 3 4 5 6 7 8	0.307	31.51	0.17	10.74	42.42		-17.64	
6	0.307	21.78	0.17	10.74	32.69	50.06	-17.37	Average
7	0.611	23.53	0.29	10.77	34.59	56.00	-21.41	QP
8	0.611	14.15	0.29	10.77	25.21	46.00	-20.79	Average
9	15.552	24.23	0.26	10.90	35.39	60.00	-24.61	QP
10	15.635	15.65	0.26	10.91	26.82	50.00	-23.18	Average
11	17.755	31.85	0.30	10.90	43.05	60.00	-16.95	QP
12	17.849	21.75	0.30	10.90	32.95	50.00	-17.05	Average

Notes:

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



Neutral:



Trace: 5

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition EUT : Tablet P.C

: IMT-8 Plus Model Test Mode : BT mode Power Rating : AC120/60Hz

Environment : Temp: 23 °C Huni: 56% Atmos: 101KPa

Test Engineer: Peter

Remark

Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBu∀	dB	āB	dBu₹	dBu√	<u>dB</u>	
0.162	17.26	0.13	10.77	28.16	55.34	-27.18	Average
0.190	34.55	0.14	10.76	45.45	64.02	-18.57	QP
0.194	15.07	0.15	10.76	25.98	53.84	-27.86	Average
0.310	32.34	0.19	10.74	43.27	59.97	-16.70	QP
0.310	21.52	0.19	10.74	32.45	49.97	-17.52	Average
0.614	13.86	0.30	10.77	24.93	46.00	-21.07	Average
0.627	22.89	0.30	10.77	33.96	56.00	-22.04	QP
2.824	23.26	0.30	10.93	34.49	56.00	-21.51	QP
15.470	27.07	0.26	10.90	38.23	60.00	-21.77	QP
15.635	17.92	0.26	10.91	29.09	50.00	-20.91	Average
17.944	22.25	0.27	10.90	33.42	50.00	-16.58	Average
18.039	31.52	0.27	10.90	42.69	60.00	-17.31	QP
	Freq 0.162 0.190 0.194 0.310 0.614 0.627 2.824 15.470 15.635 17.944	Read Level MHz dBuV 0.162 17.26 0.190 34.55 0.194 15.07 0.310 32.34 0.310 21.52 0.614 13.86 0.627 22.89 2.824 23.26 15.470 27.07 15.635 17.92 17.944 22.25	Read LISN Freq Level Factor MHz dBuV dB 0.162 17.26 0.13 0.190 34.55 0.14 0.194 15.07 0.15 0.310 32.34 0.19 0.310 21.52 0.19 0.614 13.86 0.30 0.627 22.89 0.30 2.824 23.26 0.30 15.470 27.07 0.26 15.635 17.92 0.26 17.944 22.25 0.27	Read LISN Cable Level Factor Loss MHz dBuV dB dB	Read LISN Loss Cable Level Freq Level Factor Loss Level MHz dBuV dB dB dB dBuV 0.162 17.26 0.13 10.77 28.16 0.190 34.55 0.14 10.76 45.45 0.194 15.07 0.15 10.76 25.98 0.310 32.34 0.19 10.74 43.27 0.310 21.52 0.19 10.74 32.45 0.614 13.86 0.30 10.77 24.93 0.627 22.89 0.30 10.77 33.96 2.824 23.26 0.30 10.93 34.49 15.470 27.07 0.26 10.90 38.23 15.635 17.92 0.26 10.91 29.09 17.944 22.25 0.27 10.90 33.42	Read LISN Cable Limit	Read LISN Cable Limit Over Level Factor Loss Level Line Limit MHz dBuV dB dB dBuV dBuV dB 0.162 17.26 0.13 10.77 28.16 55.34 -27.18 0.190 34.55 0.14 10.76 45.45 64.02 -18.57 0.194 15.07 0.15 10.76 25.98 53.84 -27.86 0.310 32.34 0.19 10.74 43.27 59.97 -16.70 0.310 21.52 0.19 10.74 43.27 59.97 -17.52 0.614 13.86 0.30 10.77 24.93 46.00 -21.07 0.627 22.89 0.30 10.77 33.96 56.00 -22.04 2.824 23.26 0.30 10.93 34.49 56.00 -21.51 15.470 27.07 0.26 10.90 38.23 60.00 -21.77 15.635 17.92 0.26 10.91 29.09 50.00 -20.91 17.944 22.25 0.27 10.90 33.42 50.00 -16.58

Notes:

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



6.3 Conducted Output Power

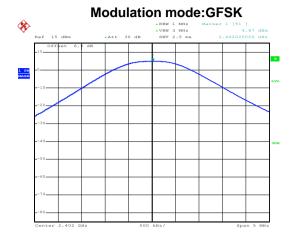
Test Requirement:	FCC Part15 C Section 15.247 (b)(1)		
Test Method:	ANSI C63.10:2013and DA00-705		
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=3MHz, VBW=10MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)		
Limit:	125 mW(21 dBm)		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Non-hopping mode		
Test results:	Pass		

Measurement Data:

GFSK mode					
Test channel	Peak Output Power (dBm) Limit (dBm) F		Result		
Lowest	4.87	21.00	Pass		
Middle	4.96	21.00	Pass		
Highest	4.83	21.00	Pass		
	π/4-DQPSK	mode			
Test channel	Peak Output Power (dBm) Limit (dBm) R		Result		
Lowest	4.36	21.00	Pass		
Middle	4.54	21.00	Pass		
Highest	4.36	21.00	Pass		
	8DPSK mo	ode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	4.42	21.00	Pass		
Middle	4.66	21.00	Pass		
Highest	4.48	21.00	Pass		

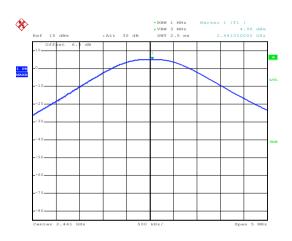


Test plot as follows:



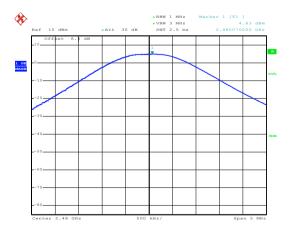
Date: 9.AUG.2016 01:29:53

Lowest channel



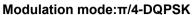
Date: 9.AUG.2016 01:30:29

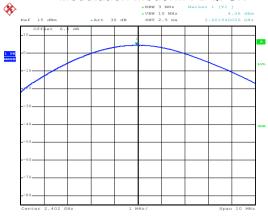
Middle channel



Date: 9.AUG.2016 01:30:57

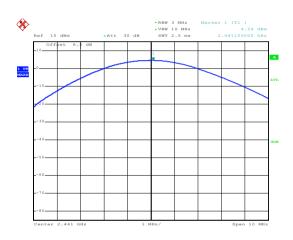






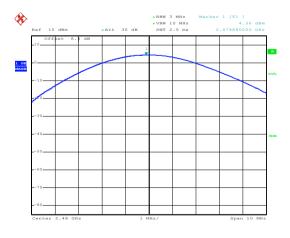
Date: 9.AUG.2016 01:33:18

Lowest channel



Date: 9.AUG.2016 01:35:38

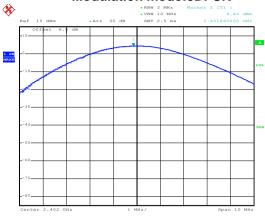
Middle channel



Date: 9.AUG.2016 01:36:12

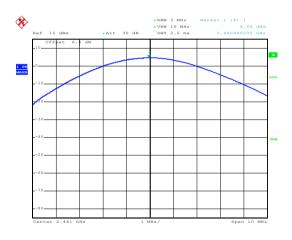






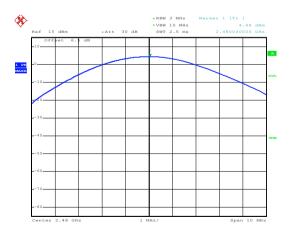
Date: 9.AUG.2016 01:41:05

Lowest channel



Date: 9.AUG.2016 01:40:45

Middle channel



Date: 9.AUG.2016 01:38:02



6.4 20dB Occupy Bandwidth

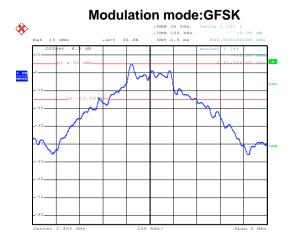
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2013 and DA00-705	
Receiver setup:	RBW=30kHz, VBW=100kHz, detector=Peak	
Limit:	NA	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Non-hopping mode	
Test results:	Pass	

Measurement Data:

Toot shannel	20dB Occupy Bandwidth (kHz)			
Test channel	GFSK	π/4-DQPSK	8DPSK	
Lowest	840	1116	1168	
Middle	836	1120	1172	
Highest	840	1120	1172	

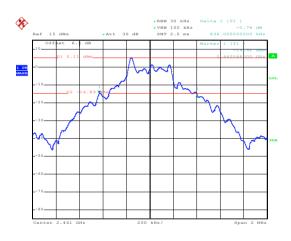


Test plot as follows:



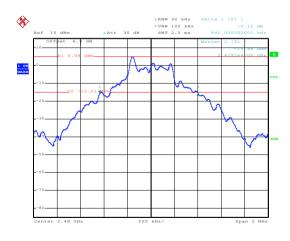
Date: 9.AUG.2016 01:58:43

Lowest channel



Date: 9.AUG.2016 02:01:39

Middle channel



Date: 9.AUG.2016 02:03:52

Highest channel

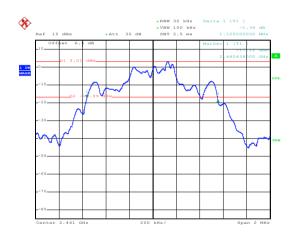






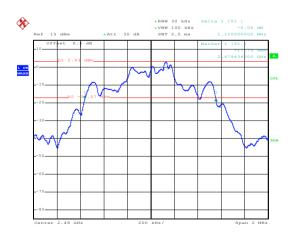
Date: 9.AUG.2016 01:55:52

Lowest channel



Date: 9.AUG.2016 01:55:05

Middle channel

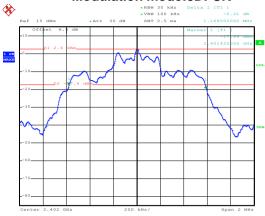


Date: 9.AUG.2016 01:50:31

Highest channel

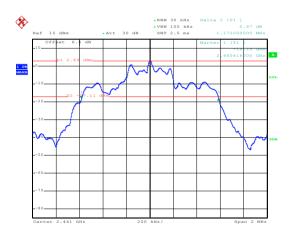






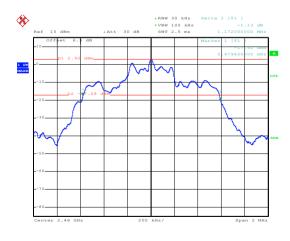
Date: 9.AUG.2016 01:44:03

Lowest channel



Date: 9.AUG.2016 01:46:03

Middle channel



Date: 9.AUG.2016 01:48:12





6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 and DA00-705		
Receiver setup:	RBW=100kHz, VBW=300kHz, detector=Peak		
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Project No.:CCISE1607024





Measurement Data:

GFSK mode				
Test channel	Carrier Frequencies Separation (kHz)			
Lowest	1004	560.00	Pass	
Middle	1004	560.00	Pass	
Highest	1004	560.00	Pass	
	π/4-DQPSK mo	de		
Test channel	Carrier Frequencies Separation (kHz)	I I I I I I I I I I I I I I I I I I I		
Lowest	1004	746.67	Pass	
Middle	1004	746.67	Pass	
Highest	1000	746.67	Pass	
	8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result	
Lowest	1004	781.33	Pass	
Middle	1004	781.33	Pass	
Highest	st 1000 781.33 Pass		Pass	

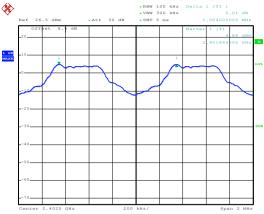
Note: According to section 6.4

Mode	20dB bandwidth (kHz)	Limit (kHz)
Wode	(worse case)	(Carrier Frequencies Separation)
GFSK	840	560.00
π/4-DQPSK	1120	746.67
8DPSK	1172	781.33



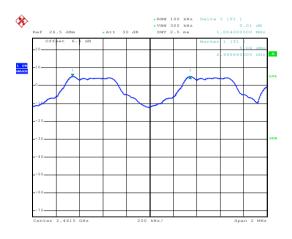
Test plot as follows:





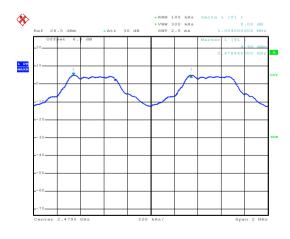
Date: 9.AUG.2016 03:01:55

Lowest channel



Date: 9.AUG.2016 03:10:37

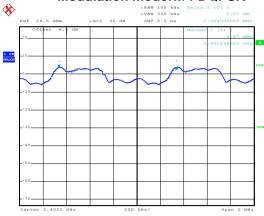
Middle channel



Date: 9.AUG.2016 03:11:27







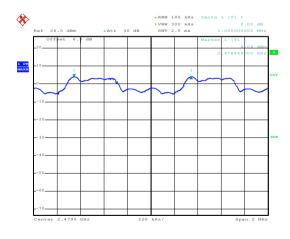
Date: 9.AUG.2016 03:14:21

Lowest channel



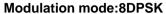
Date: 9.AUG.2016 03:13:19

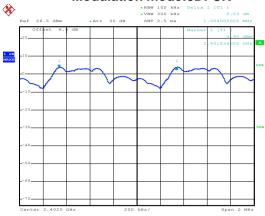
Middle channel



Date: 9.AUG.2016 03:12:25

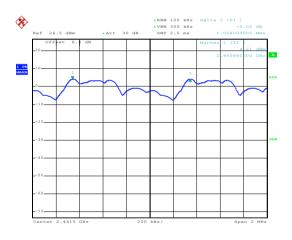






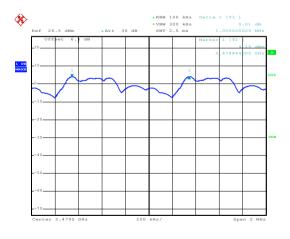
Date: 9.AUG.2016 03:15:52

Lowest channel



Date: 9.AUG.2016 03:26:42

Middle channel



Date: 9.AUG.2016 03:33:19



6.6 Hopping Channel Number

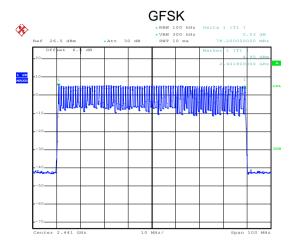
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2013 and DA00-705	
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak	
Limit:	15 channels	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.7 for details	
Test mode:	Hopping mode	
Test results:	Pass	

Measurement Data:

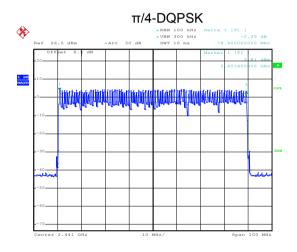
Mode	Hopping channel numbers	Limit	Result
GFSK, π/4-DQPSK, 8DPSK	79	15	Pass



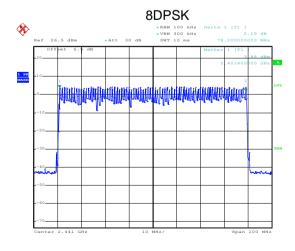
Test plot as follows:



Date: 9.AUG.2016 02:49:29



Date: 9.AUG.2016 02:37:40



Date: 9.AUG.2016 02:32:48



6.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 and KDB DA00-705		
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak		
Limit:	0.4 Second		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Hopping mode		
Test results:	Pass		

Measurement Data (Worse case):

Mada	Dealest	Devel time (a come)	l ::t /	Danielt
Mode	Packet	Dwell time (second)	Limit (second)	Result
	DH1	0.12480		
GFSK	DH3	0.26496	0.4	Pass
	DH5	0.31317		
	2-DH1	0.12800		
π/4-DQPSK	2-DH3	0.26592	0.4	Pass
	2-DH5	0.31317		
	3-DH1	0.12672		
8DPSK	3-DH3	0.26592	0.4	Pass
	3-DH5	0.31403		

For GFSK, $\pi/4$ -DQPSK and 8DPSK:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

DH1 time slot=0.390*(1600/(2*79))*31.6=124.80ms DH3 time slot=1.656*(1600/(4*79))*31.6=264.96ms DH5 time slot=2.936*(1600/(6*79))*31.6=313.17ms

2-DH1 time slot=0.400 *(1600/ (2*79))*31.6=128.00ms

2-DH3 time slot=1.662*(1600/ (4*79))*31.6=265.92ms

2-DH5 time slot=2.936*(1600/ (6*79))*31.6=313.17ms

3-DH1 time slot=0.396 *(1600/ (2*79))*31.6=126.72ms

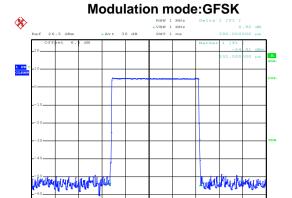
3-DH3 time slot=1.662*(1600/ (4*79))*31.6=265.92ms

3-DH5 time slot=2.944*(1600/ (6*79))*31.6=314.03ms

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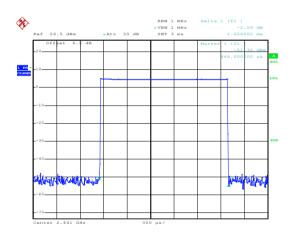


Test plot as follows:



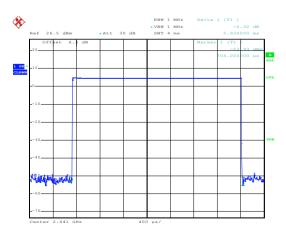
Date: 9.AUG.2016 02:50:35

DH1



Date: 9.AUG.2016 02:51:45

DH3

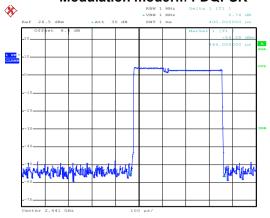


Date: 9.AUG.2016 02:55:14

DH5

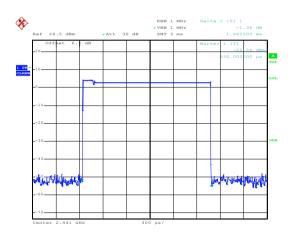






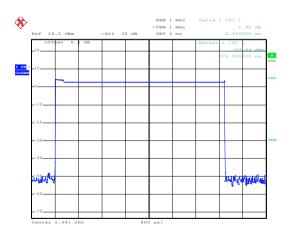
Date: 9.AUG.2016 02:56:00

2-DH1



Date: 9.AUG.2016 02:56:38

2-DH3

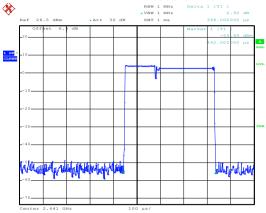


Date: 9.AUG.2016 02:57:31

2-DH5

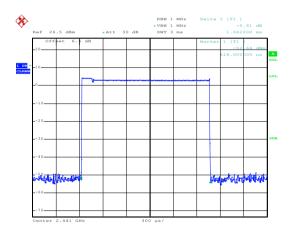






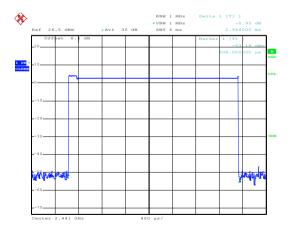
Date: 9.AUG.2016 02:58:13

3-DH1



Date: 9.AUG.2016 02:58:54

3-DH3



Date: 9.AUG.2016 02:59:58

3-DH5

Report No: CCISE160702403

6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

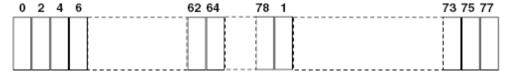
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.



6.9 Band Edge

6.9.1 Conducted Emission Method

Toot Poquiroment:	ECC Part15 C Section 15 247 (d)
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and DA00-705
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak
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:	Non-hopping mode and hopping mode
Test results:	Pass

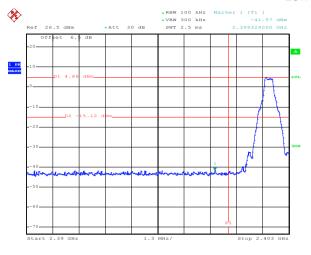
Project No.:CCISE1607024

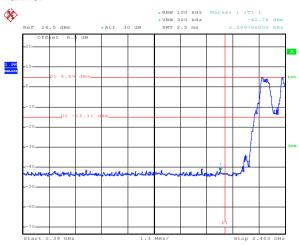


Test plot as follows:

GFSK

Lowest Channel





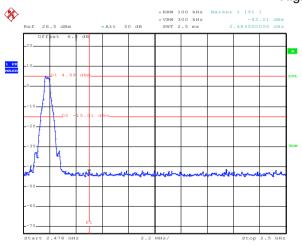
Date: 9.AUG.2016 03:53:01

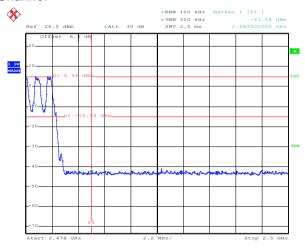
Date: 9.AUG.2016 03:50:27

No-hopping mode

Hopping mode

Highest Channel





Date: 9.AUG.2016 03:54:10

Date: 9.AUG.2016 03:58:39

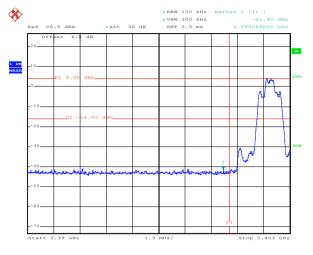
No-hopping mode

Hopping mode

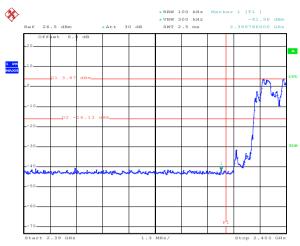


π/4-DQPSK

Lowest Channel



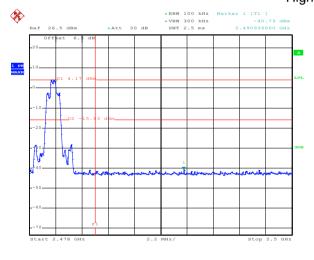
No-hopping mode

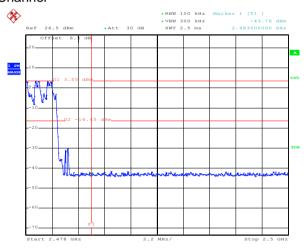


Date: 9.AUG.2016 03:48:16

Hopping mode

Highest Channel





Date: 9.AUG.2016 04:16:22

Date: 9.AUG.2016 04:02:43

Date: 9.AUG.2016 03:44:26

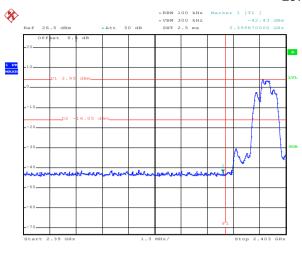
No-hopping mode

Hopping mode

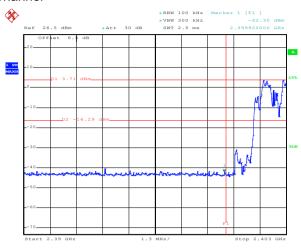


8DPSK

Lowest Channel



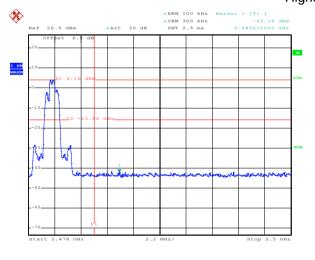
No-hopping mode

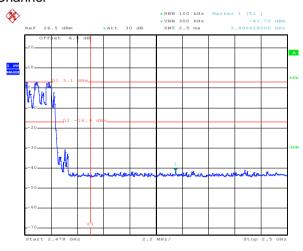


Date: 9.AUG.2016 03:36:16

Hopping mode

Highest Channel





Date: 9.AUG.2016 04:23:38

Date: 9.AUG.2016 04:25:58

Date: 9.AUG.2016 03:38:57

No-hopping mode

Hopping mode



6.9.2 Radiated Emission Method

Test Requirement:	FCC Part15 C	Section 15.209	and 15.205		
Test Method:	ANSI C63.10: 2	2013			
Test Frequency Range:	2.3GHz to 2.50	GHz			
Test site:	Measurement I	Distance: 3m			
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1CHz	Peak	1MHz	3MHz	Peak Value
	Above 1GHz	RMS	1MHz	3MHz	Average Value
Limit:	Frequen	cy Liı	mit (dBuV/m @:	3m)	Remark
	Above 4C	NI I=	54.00	A	Average Value
	Above 1G	PHZ	74.00		Peak Value
	Swarps 1	AE EUT (Turntable)	Ground Reference Plane	n Antenna To	ower .
Test Procedure:	groundat a 3 todetermine 2. The EUT wa antenna, wh tower. 3. The antenna ground to de horizontal armeasureme 4. For each su and thenthe the rotatable maximum re 5. The test-rec SpecifiedBa 6. If the emissi limit specifie EUT would 10dB margin	a meter camber the position of	er. The table wand of the highest race of the highest race of the ed on the top of the ed from one meaning aximum value of the ed on the EUT was set to Peak Maximum Hold Maxi	s rotated 360 diation. interference f a variable-heter to four mof the field stantenna are as arranged as from 1 meters as 360 degree Detect Functioned was 100 ped and the phissions that the using pear	eters above the rength. Both e set to make the to its worst case er to 4 meters and s to find the etion and dB lower than the beak values of the did not have ak, quasi-peak or
Test Instruments:	Refer to section				
Test mode:	Non-hopping m				
Test results:	Passed				
Pomark:					

Remark:

- 1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8DPSK, and all data were shown in report.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.

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 Project No.:CCISE1607024

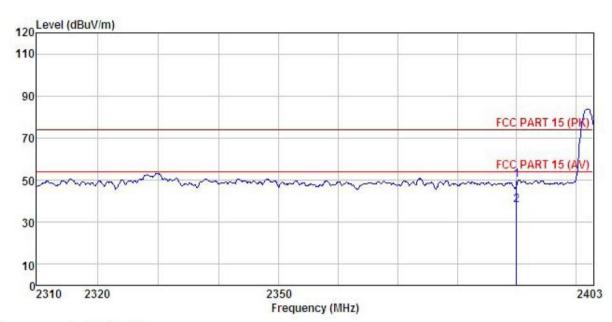




GFSK mode

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet P.C Condition

EUT Model : IMT-8 Plus
Test mode : DH1-L Mode
Power Rating : AC120V/60Hz

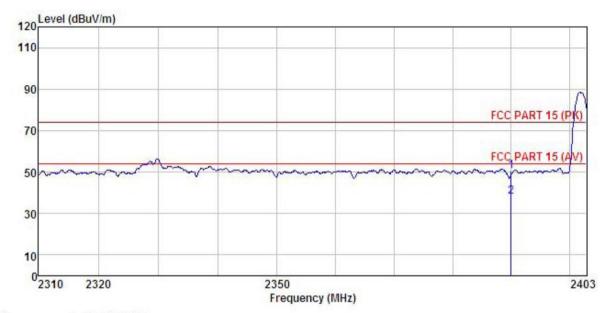
Environment : Temp: 25.5°C Huni:55%

Test Engineer: MT REMARK :

	Freq		Antenna Factor							
	MHz	dBu∜		<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B		
1	2390.000									
2	2390.000	7.55	23.68	6.63	0.00	37.86	54.00	-16.14	Average	







Site Condition : 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

: Tablet P.C : IMT-8 Plus : DH1-L Mode EUT Model Test mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C

Huni:55%

Test Engineer: MT

REMARK

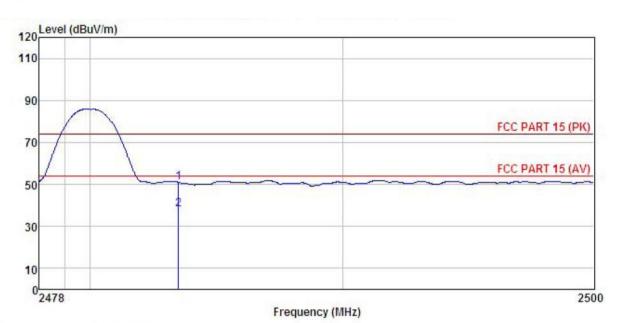
	F		Antenna							
	Freq	revel	ractor	Loss	ractor	rever	Line	Limit	Remark	
	MHz	dBu∜	dB/m	dB	₫B	dBuV/m	dBuV/m	dB		_
1 2	2390.000 2390.000									





Test channel:Highest

Horizontal:



Site Condition

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet P.C : IMT-8 Plus : DH1-H Mode EUT Model Test mode

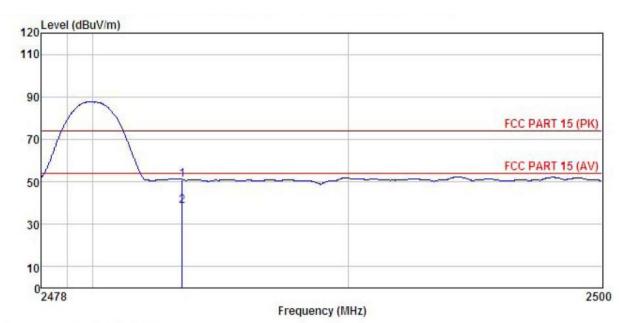
Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: MT REMARK :

Linuit	-		Antenna Factor				Limit Line		
	MHz	dBu∜	<u>dB</u> /m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500				0.00 0.00				







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

: Tablet P.C : IMT-8 Plus EUT Model Test mode : DH1-H Mode

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

	Freq		ReadAntenna Level Factor		Cable Preamp Loss Factor			14701174174	
-	MHz	dBu₹	$-\overline{dB/m}$	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500				A 1 20 TO THE R. P. LEWIS CO., LANSING, MICH. 40 TO 12 YEAR AND ADDRESS.	50.95 38.32			

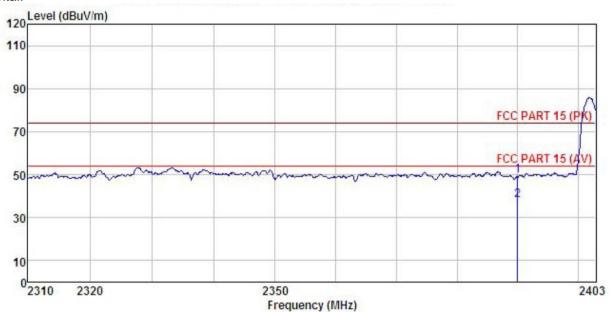




π/4-DQPSK mode

Test channel: Lowest

Horizontal:



Site

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

EUT : Tablet P.C Model : IMT-8 Plus Test mode : 2DH1-L Mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C

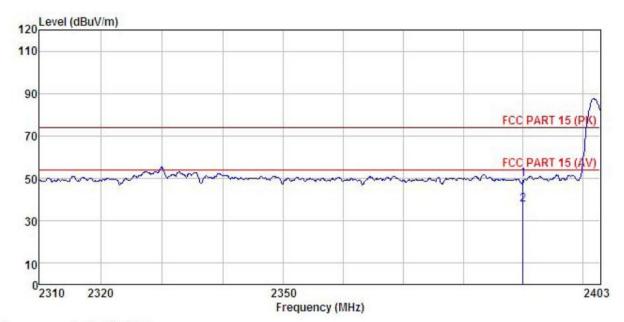
Huni:55%

Test Engineer: MT REMARK :

	9 (5)		Antenna Factor						Remark
	MHz	dBu₹	dB/m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000		C332202 275-285					100000000000000000000000000000000000000	







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

: Tablet P.C

Model : IMT-8 Plus
Test mode : 2DH1-L Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK :

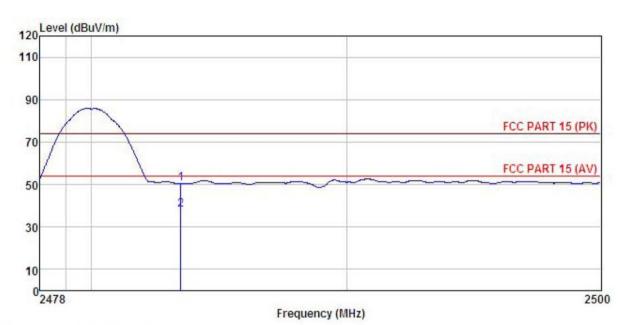
	Freq		Antenna Factor						Remark
-	MHz	dBu∀	dB/m	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1 2	2390.000 2390.000								





Test channel:Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet P.C : IMT-8 P.U. Condition

EUT Model : 2DH1-H Mode Test mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

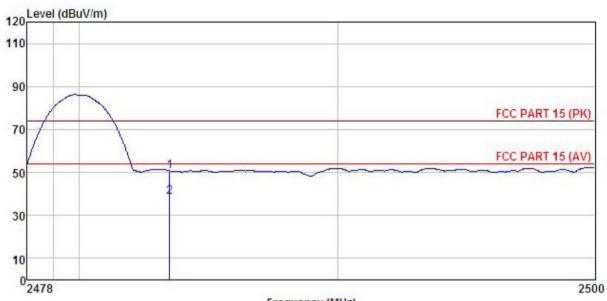
Test Engineer: MT REMARK :

1 2

IU	Freq		Antenna Factor						
	MHz	dBu₹	$-\overline{dB/m}$	<u>dB</u>	dB	dBuV/m	dBuV/m	<u>dB</u>	
			23.70 23.70			50.56 38.28			Peak Average







Frequency (MHz)

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Tablet P.C Site Condition

Tablet P.C

Model : IMT-8 Plus

Test mode : 2DH1-H Mode

Power Rating : AC120V/60Hz

Environment : Temp:25.5°C

Test Engineer: MT

REMARK EUT

Huni:55%

WAL!	v :									
	Even		Antenna Factor						Panaula	
	rreq	rever	ractor	LOSS	ractor	rever	Line	LIMIC	Kemark	
	MHz	dBu∜	dB/m	d₿	dB	dBu√/m	dBu√/m	dB		
1	2483.500	19.97	23.70	6.85	0.00	50.52	74.00	-23.48	Peak	
2	2483,500	7.84	23.70	6.85	0.00	38.39	54.00	-15.61	Average	

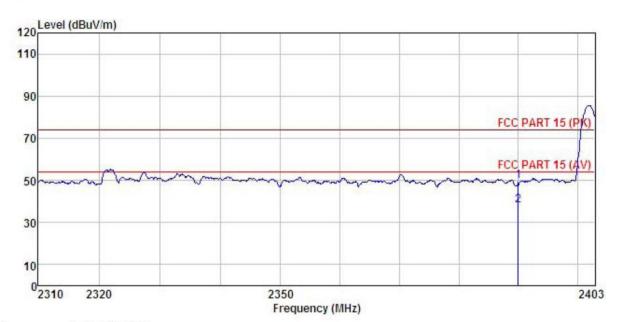




8DPSK mode

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL : Tablet_P.C Condition

EUT Model : IMT-8 Plus
Test mode : 3DH1-L Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C
Test Engineer: MT
RFMARK

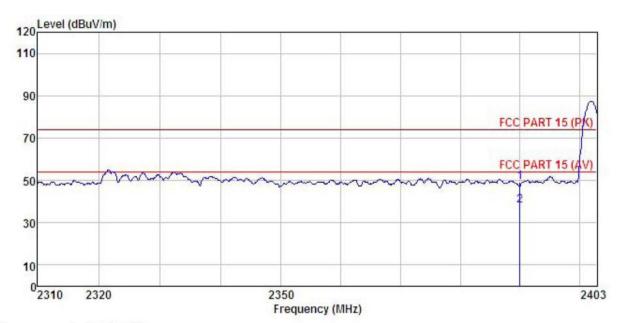
Huni:55%

REMARK

	Freq		Antenna Factor						
-	MHz	dBu∜	dB/m	dB	<u>dB</u>	dBuV/m	dBu√/m	dB	
	2390.000 2390.000								







Site Condition EUT : 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : Tablet P.C

Model : IMT-8 Plus Test mode : 3DH1-L Mode Power Rating : AC120V/60Hz Environment : Temp:25.5 C

Huni:55%

Test Engineer: MT REMARK :

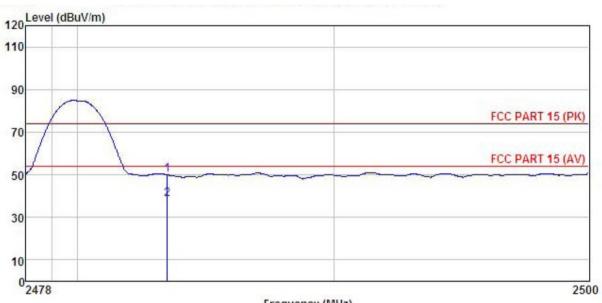
			Antenna						
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark
-	MHz	dBu₹	$\overline{-dB/m}$	<u>d</u> B	dB	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	2390.000	18.71	23.68	6.63	0.00	49.02	74.00	-24.98	Peak
2	2390.000	7.68	23.68	6.63	0.00	37.99	54.00	-16.01	Average





Test channel:Highest

Horizontal:



Frequency (MHz)

Site

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

: Tablet P.C : IMT-8 Plus EUT Model : 3DH1-H Mode Test mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C

Huni:55%

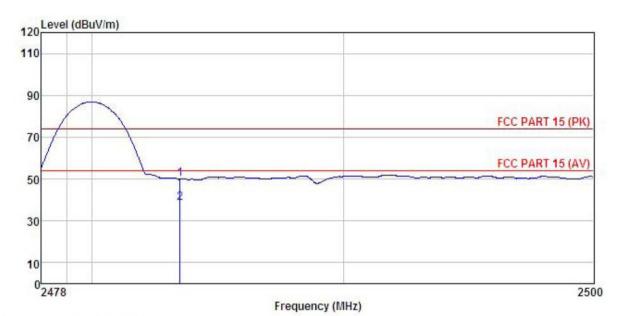
Test Engineer: MT

REMARK

		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
•	MHz	dBu₹	dB/m	<u>dB</u>	dB	dBu√/m	dBu√/m	<u>d</u> B	
1	2483.500	19.27	23.70	6.85	0.00	49.82	74.00	-24.18	Peak
2	2483.500	7.97	23.70	6.85	0.00	38.52	54.00	-15.48	Average







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

: Tablet P.C : IMT-8 Plus EUT : IMT-8 Plus
lest mode : 3DH1-H Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C
Test Engineer: MT
REMARK

Huni:55%

1 2

		Antenna Factor						
MHz	dBu∜	$\overline{dB/m}$	dB	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	dB	
2483.500 2483.500								



6.10 Spurious Emission

6.10.1 Conducted Emission Method

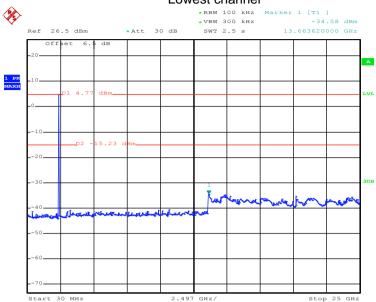
Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and DA00-705						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall 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:	Non-hopping mode						
Test results:	Pass						

Project No.:CCISE1607024



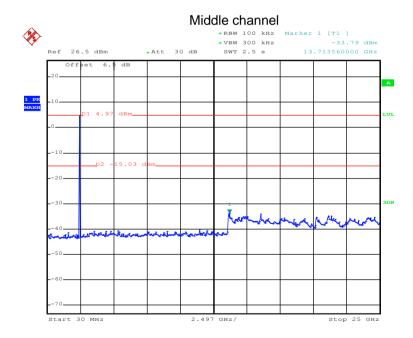
Test plot as follows:





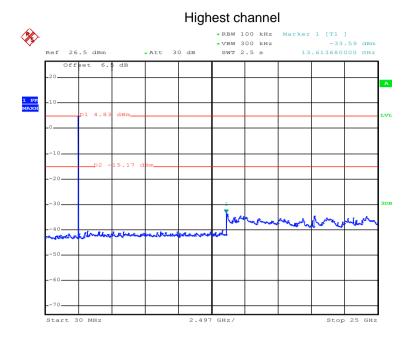
Date: 9.AUG.2016 02:10:15

30MHz~25GHz



Date: 9.AUG.2016 02:09:06





Date: 9.AUG.2016 02:07:11

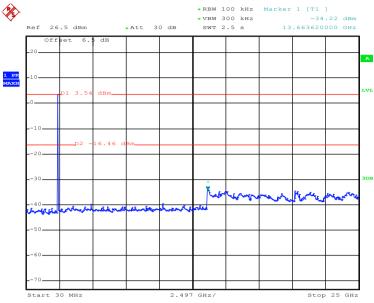
30MHz~25GHz

Project No.:CCISE1607024



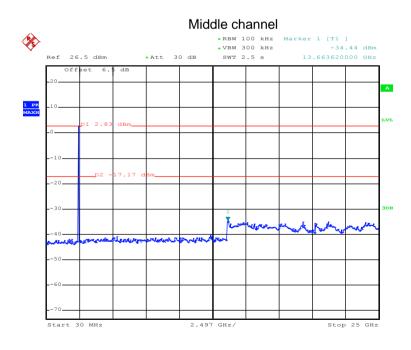
π/4-DQPSK

Lowest channel



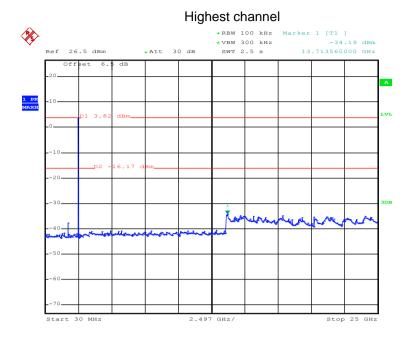
Date: 9.AUG.2016 02:14:30

30MHz~25GHz



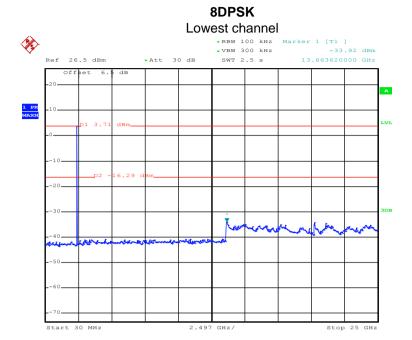
Date: 9.AUG.2016 02:16:00





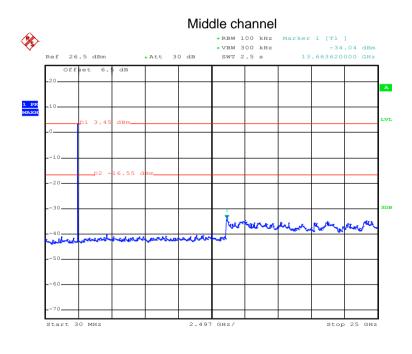
Date: 9.AUG.2016 02:18:59





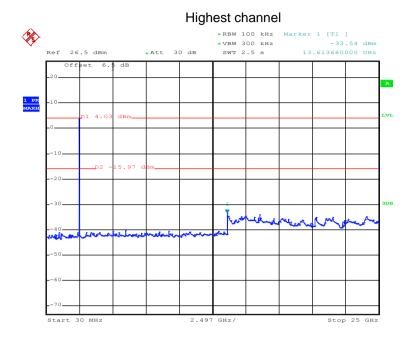
Date: 9.AUG.2016 02:27:42

30MHz~25GHz



Date: 9.AUG.2016 02:24:10





Date: 9.AUG.2016 02:21:57





6.10.2 Radiated Emission Method

6.10.2 Radiated Emission M	ethod									
Test Requirement:										
Test Method:	ANSI C63.10: 2013									
Test Frequency Range:	9kHz to 25GHz									
Test site:	Measurement Distance: 3m									
Receiver setup:	Frequency Detector RBW VBW Remark									
	30MHz-1GHz Quasi-peak 120kHz 300kHz Quasi-peak									
	Above 1GHz Peak 1MHz 3MHz Peak Value									
	ABOVE TOTIZ	RMS		1MHz	ЗМН	z	Average Value			
Limit:	Frequenc	;y	Lim	it (dBuV/m @	⊉3m)		Remark			
	30MHz-88N	ИHz		40.0		(Quasi-peak Value			
	88MHz-216	MHz		43.5		(Quasi-peak Value			
	216MHz-960	MHz		46.0		(Quasi-peak Value			
	960MHz-10	SHz		54.0		(Quasi-peak Value			
	Above 1GI	Hz -		54.0			Average Value			
	7 1.50 7 0 1			74.0			Peak Value			
							Search Antenna Test ceiver			



Report No: CCISE160702403

Test Procedure:	 The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the groundat a 3 meter chamber. 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, whichwas 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 thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB 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 10dB 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 Instruments:	Refer to section 5.7 for details
Test mode:	Non-hopping mode
Test results:	Pass

Remark:

- 1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.
- 3. 9 kHz to 30 MHz is noise floor, so only shows the data of above 30MHz in this report.

Project No.:CCISE1607024

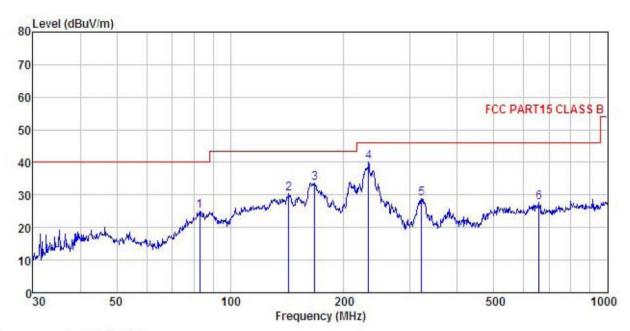




Measurement data:

Below 1GHz

Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL : Tablet P.C : IMT-8 Plus : BT Mode Condition

EUT Model Test mode Power Rating: AC120V/60Hz Environment: Temp:25.5 C Test Engineer: MT REMARK:

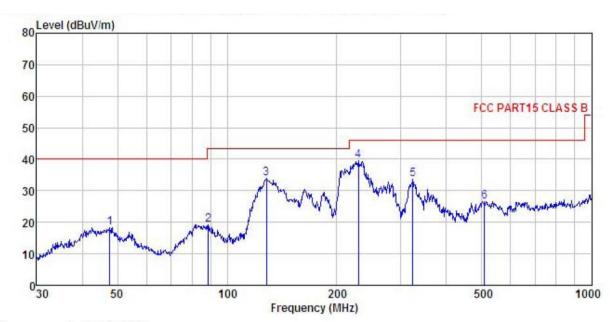
Huni:55%

LMARK									
	Freq		Antenna Factor				Limit Line		Remark
_	MHz	——dBu∜	<u>d</u> B/m		<u>ab</u>	dBuV/m	dBu∀/m	<u>d</u> B	
1	82.938	45.92	7.12	1.76	29.62	25.18	40.00	-14.82	QP
2	142.824	45.75	11.41	2.43	29.26	30.33	43.50	-13.17	QP
3	167.237	50.40	9.83	2.64	29.07	33.80	43.50	-9.70	QP
4	232.532	54.35	11.66	2.83	28.64	40.20	46.00	-5.80	QP
5	321.061	40.95	13.34	3.01	28.50	28.80	46.00	-17.20	QP
6	658.836	33.61	18.88	3.92	28.76	27.65	46.00	-18.35	QP





Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL : Tablet P.C : INT-8 Plus Condition

EUT : IMT-8 Plus
Test mode : BT Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT
REMARK :

munut									
	Freq		Antenna Factor						Remark
-	MHz	dBu₹	$\overline{dB/m}$		dB	dBuV/m	dBuV/m	<u>dB</u>	
1	47.659	30.65	16.22	1.27	29.84	18.30	40.00	-21.70	QP
2	88.652	38.78	7.98	2.00	29.58	19.18	43.50	-24.32	QP
2	128.113	48.83	12.21	2.26	29.34	33.96	43.50	-9.54	QP
4	229.293	53.63	11.60	2.83	28.65	39.41	46.00	-6.59	QP
4 5	323.320	45.83	13.38	3.02	28.50	33.73	46.00	-12.27	QP
6	508, 258	35, 01	16, 99	3, 66	28, 98	26, 68	46,00	-19.32	ΩP



Above 1GHz:

Te	st channel		Lowest		Le	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	46.12	35.99	10.57	40.24	52.44	74.00	-21.56	Vertical	
4804.00	45.28	35.99	10.57	40.24	51.60	74.00	-22.40	Horizontal	
Te	st channel		Low	vest	Level:		Ave	erage	
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	36.43	35.99	10.57	40.24	42.75	54.00	-11.25	Vertical	
4804.00	35.58	35.99	10.57	40.24	41.90	54.00	-12.10	Horizontal	

Te	st channel	:	Middle		Le	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	
4882.00	45.69	36.38	10.66	40.15	52.58	74.00	-21.42	Vertical	
4882.00	46.01	36.38	10.66	40.15	52.90	74.00	-21.10	Horizontal	
Te	st 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	
4882.00	35.71	36.38	10.66	40.15	42.60	54.00	-11.40	Vertical	
4882.00	35.58	36.38	10.66	40.15	42.47	54.00	-11.53	Horizontal	

Te	st channel	:	Highest		Le	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	
4960.00	46.23	36.71	10.73	40.03	53.64	74.00	-20.36	Vertical	
4960.00	45.71	36.71	10.73	40.03	53.12	74.00	-20.88	Horizontal	
Te	st 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	35.69	36.71	10.73	40.03	43.10	54.00	-10.90	Vertical	
4960.00	36.01	36.71	10.73	40.03	43.42	54.00	-10.58	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.