



TEST REPORT

FCC ID: 2AGQ6-ULTRA

Applicant : Dspread Technology (Beijing) Inc
Address : Jingxin Building, 2045 Suite, Chaoyang District, Beijing P-100027, China

Equipment under Test (EUT):

Name	:	mPOS
Model	:	QPOS ultra
Trademark	:	N/A

Standards : FCC PART 15, SUBPART C : 2015 (Section 15.247)
ANSI C63.4:2014

Report No. : T1851648 07

Date of Test : October 29, 2015 – November 27, 2015

Date of Issue : November 30, 2015

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above
Authorized Signature

(Mark Zhu)

Manager

The manufacturer should ensure that all the products in series production are in conformity with the product sample detailed in this report. 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. Any mention of Shenzhen Alpha Product Testing Co., Ltd. Or test done by Shenzhen Alpha Product Testing Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd. Approvals in writing

TABLE OF CONTENT

Description	
Page	
1. General Information	4
1.1. Description of Device (EUT)	4
1.2. Accessories of device (EUT)	5
1.3. Test Lab information	5
2. Summary of test	6
2.1. Summary of test result	6
2.2. Assistant equipment used for test.....	6
2.3. Block Diagram	7
2.4. Test mode	7
2.5. Test Conditions.....	8
2.6. Measurement Uncertainty (95% confidence levels, k=2).....	8
2.7. Test Equipment.....	9
3. Maximum Peak Output power	10
3.1. Limit.....	10
3.2. Test Procedure.....	10
3.3. Test Setup	10
3.4. Test Result	10
4. Bandwidth.....	11
4.1. Limit.....	11
4.2. Test Procedure.....	11
4.3. Test Result	11
5. Carrier Frequency Separation	17
5.1. Limit.....	17
5.2. Test Procedure.....	17
5.3. Test Result	17
6. Number Of Hopping Channel	20
6.1. Limit.....	20
6.2. Test Procedure.....	20
6.3. Test Result	20
7. Dwell Time	23
7.1. Test limit	23
7.2. Test Procedure.....	23
7.3. Test Results	23
8. Radiated emissions.....	30
8.1. Limit.....	30
8.2. Block Diagram of Test setup	31
8.3. Test Procedure	32
8.4. Test Result	32
9. Band Edge Compliance.....	44

9.1.	Block Diagram of Test Setup	44
9.2.	Limit.....	44
9.3.	Test Procedure.....	44
9.4.	Test Result.....	44
10.	Power Line Conducted Emissions	63
10.1.	Block Diagram of Test Setup	63
10.2.	Limit.....	63
10.3.	Test Procedure.....	63
10.4.	Test Result.....	64
11.	Antenna Requirements.....	67
11.1.	Limit.....	67
11.2.	Result.....	67
12.	Test setup photo	68
12.1.	Photos of Radiated emission	68
12.2.	Photos of Conducted Emission test.....	69
13.	Photos of EUT.....	70

1. General Information

1.1. Description of Device (EUT)

EUT : mPOS

Model No. : QPOS ultra

Trade mark : N/A

Power supply : DC 3.7V From battery or DC 5V from USB for charge

Radio Technology : Bluetooth 3.0 + EDR

Operation frequency : 2402-2480MHz

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

Antenna Type : Integrated Antenna, max gain 0Bi.

Adapter : N/A

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Manufacturer : Dspread Technology (Beijing) Inc

Address : Jingxin Building, 2045 Suite, Chaoyang District, Beijing P-100027, China

1.2. Accessories of device (EUT)

Accessories : Cable

Type : N/A

1.3. Test Lab information

Shenzhen Alpha Product Testing Co., Ltd.

2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China

FCC Registered No.: 203110

2. Summary of test

2.1. Summary of test result

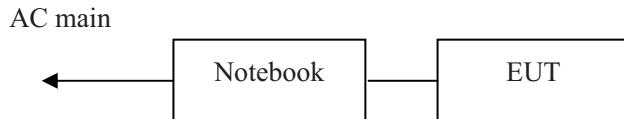
Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.4 :2014	PASS
Bandwidth	FCC Part 15: 15.215 ANSI C63.4 :2014	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.4 :2014	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2014	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2014	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4 :2014	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.4 :2014	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4 :2014	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: Test with the test procedure Blue tool.		

2.2. Assistant equipment used for test

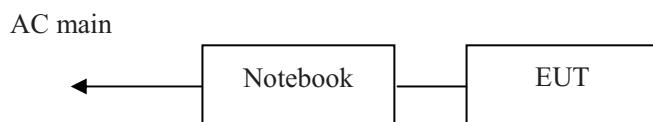
Description	:	Notebook
Manufacturer	:	ACER
Model No.	:	ZQT
Remark: FCC DOC approved		

2.3. Block Diagram

1, For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was set into BT test mode by ISRT.exe software before test.



2, For Power Line Conducted Emissions Test: EUT was connected to notebook by 0.6m USB line



2.4. Test mode

The test software “Bluetool.exe” was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
$\pi /4$ DQPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
8- DPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

2.5. Test Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.70dB	
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.90dB	Polarize: V
	3.92dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.28dB	Polarize: H
	4.26dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

2.7. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Cal. Due day	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2016.01.19	1Year
Spectrum analyzer	Agilent	E4407B	MY49510055	2016.01.19	1Year
Receiver	R&S	ESCI	101165	2016.01.19	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2016.01.21	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2016.01.21	2Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	2016.01.21	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2016.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	2016.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	309972/4	2016.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	329112/4	2016.01.19	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2016.01.19	1Year
L.I.S.N.#2	ROHDE&SCHWABE RZ	ENV216	101043	2016.01.19	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	2016.01.19	1Year
Power sensor	Anritsu	ML2491A	32516	2016.01.19	1Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2016.01.19	1Year
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2016.01.19	1Year

3. Maximum Peak Output power

3.1. Limit

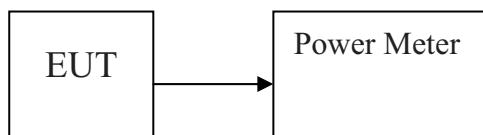
Please refer section 15.247.

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

EUT: mPOS M/N: QPOS ultra					
Test date: 2015-11-27		Test site: RF site		Tested by: Reak	
Mode	Freq (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Margin (dB)
GFSK	2402	-2.409	0.57	21	23.41
	2441	-2.120	0.61	21	23.12
	2480	-1.912	0.64	21	22.91
$\pi/4$ DQPSK,	2402	-2.316	0.59	21	23.32
	2441	-2.001	0.63	21	23.00
	2480	-1.796	0.66	21	22.80
8- DPSK	2402	-2.312	0.59	21	23.31
	2441	-1.969	0.64	21	22.97
	2480	-1.793	0.66	21	22.79
Conclusion: PASS					

4. Bandwidth

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.
Peak detector is used .

4.3. Test Result

EUT: mPOS		M/N: QPOS ultra		
Test date: 2015-11-27		Test site: RF site	Tested by: Reak	
Mode	Freq (MHz)	20dB Bandwidth (KHz)	Limit (kHz)	Conclusion
GFSK	2402	660.9	/	PASS
	2441	660.4	/	PASS
	2480	692.2	/	PASS
$\pi / 4$ DQPSK	2402	1211	/	PASS
	2441	1210	/	PASS
	2480	1208	/	PASS
8- DPSK	2402	1230	/	PASS
	2441	1237	/	PASS
	2480	1239	/	PASS

Orginal Test data For 20dB bandwidth

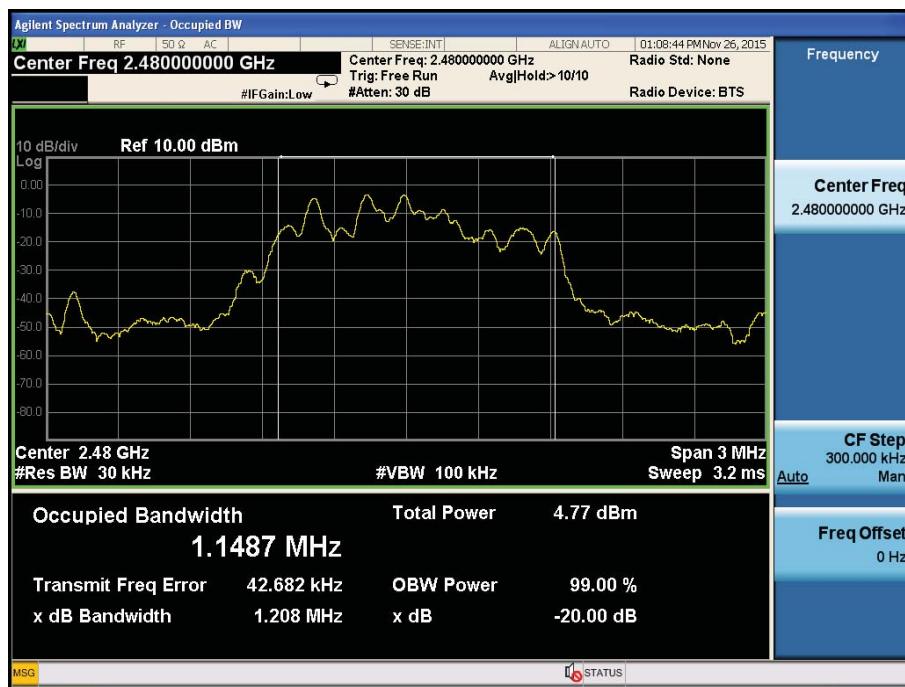
GFSK:





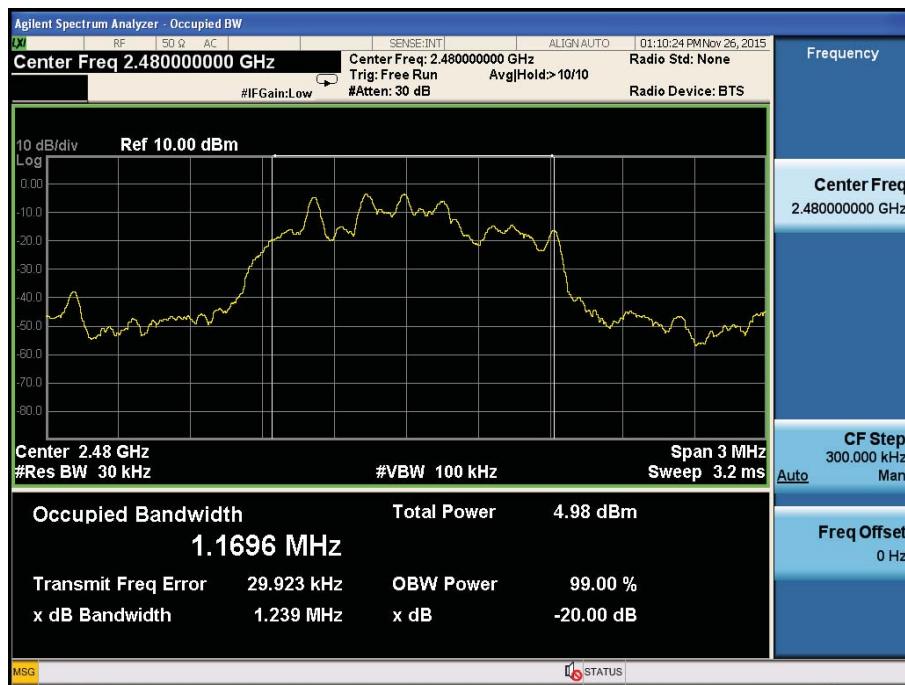
$\pi/4$ DQPSK:





8- DPSK:





5. Carrier Frequency Separation

5.1. Limit

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

5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

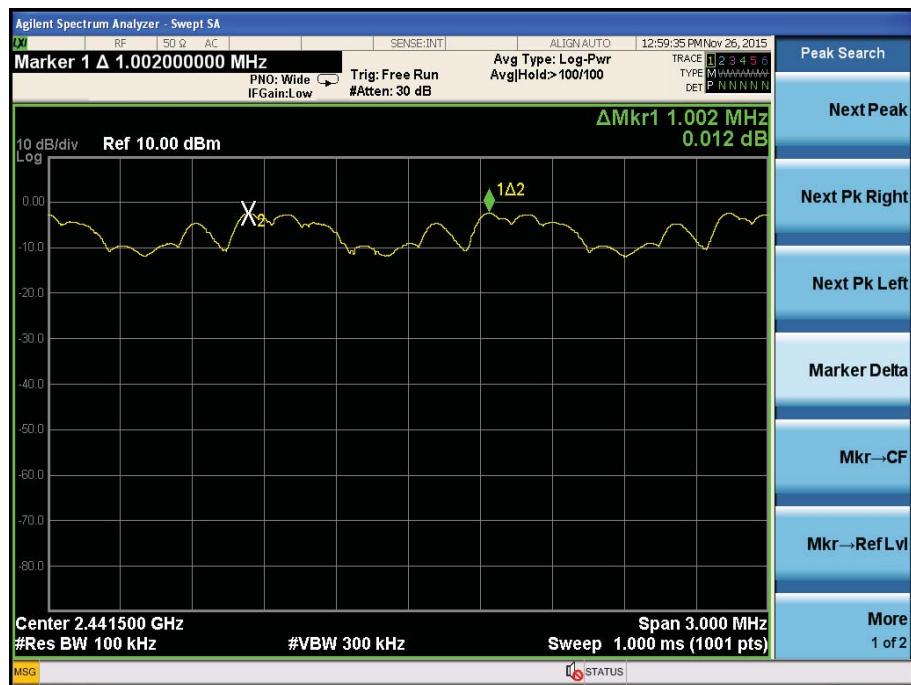
5.3. Test Result

EUT: mPOS M/N: QPOS ultra				
Test date: 2015-11-27		Test site: RF site	Tested by: Reak	
Mode/Channel	Channel separation (MHz)	20dB Bandwidth (KHz)	Limit (KHz) 2/3 20dB bandwidth	Conclusion
GFSK	1.005	692.2	461.5	PASS
$\pi/4$ DQPSK	1.002	1211	807.3	PASS
8- DPSK	1.005	1239	826	PASS

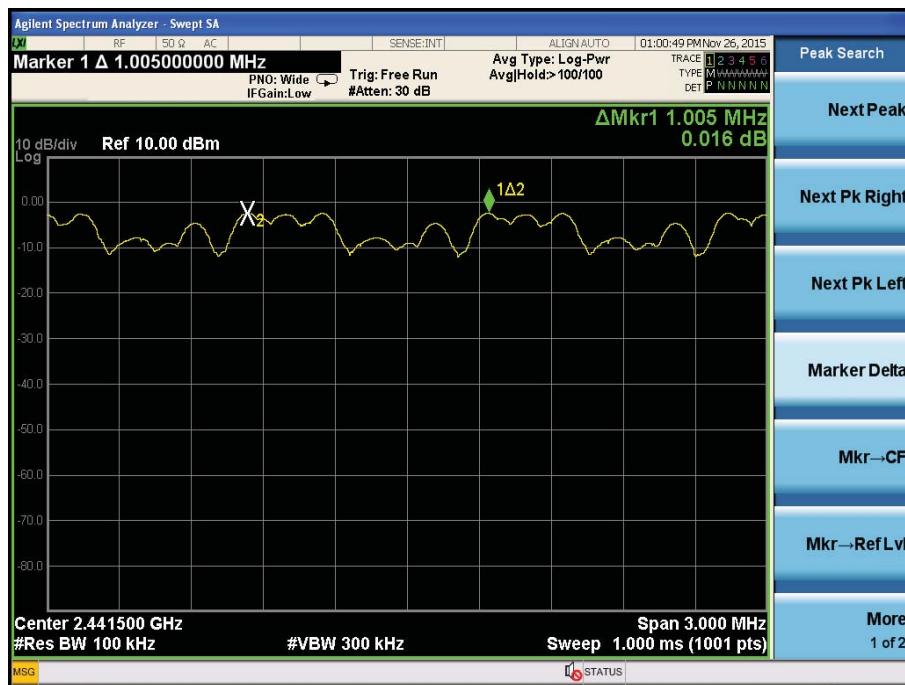
Orginal test data for channel separation
GFSK



$\pi/4$ DQPSK



8- DPSK:



6. Number Of Hopping Channel

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

6.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW.

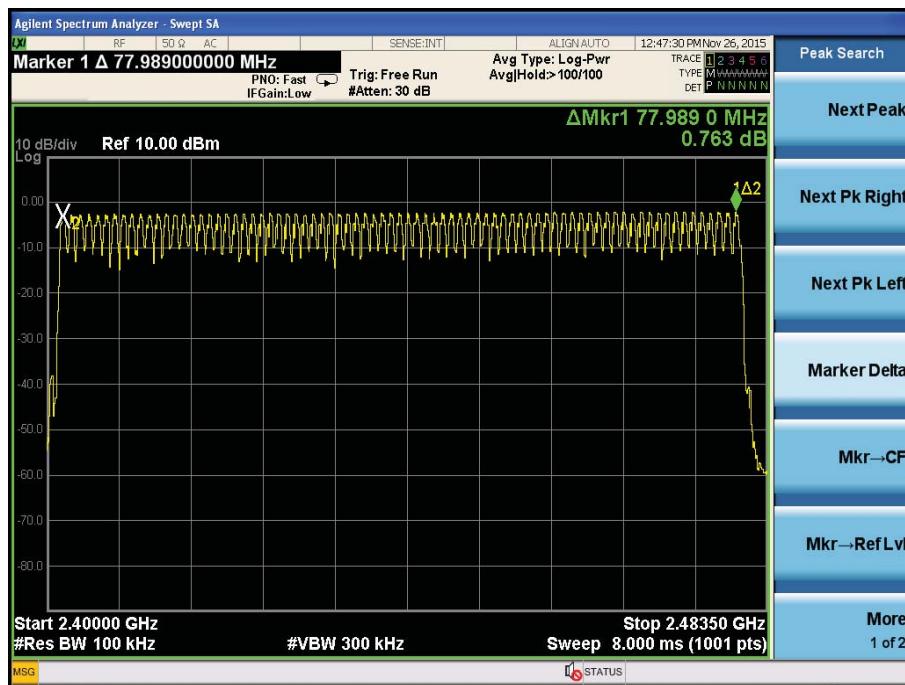
6.3. Test Result

EUT: mPOS M/N: QPOS ultra			
Test date: 2015-11-27		Test site: RF site	Tested by: Reak
Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
$\pi/4$ DQPSK	79	>15	PASS
8- DPSK	79	>15	PASS

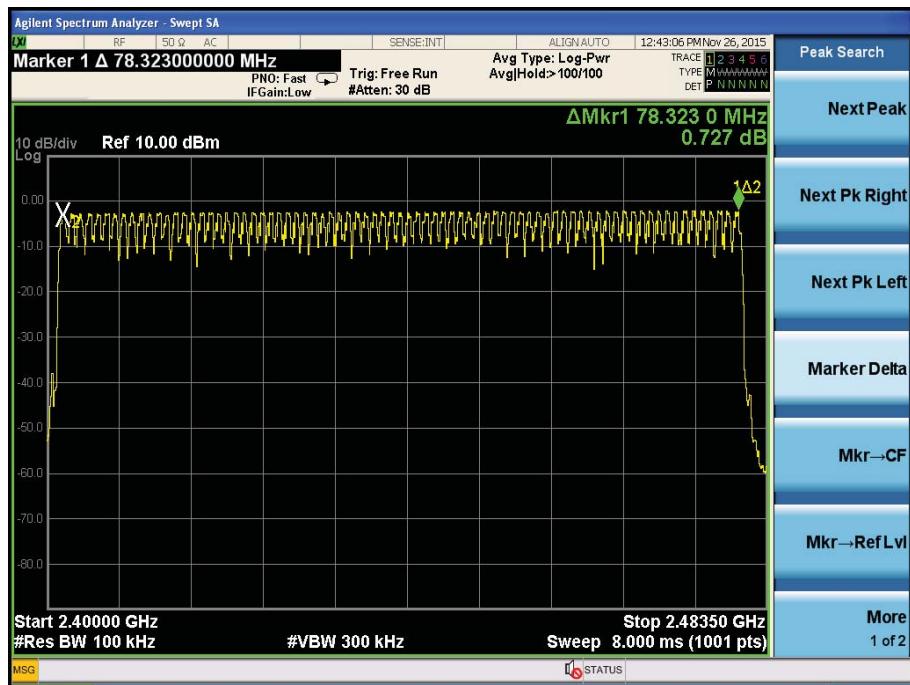
Original test data for hopping channel number
GFSK



$\pi/4$ DQPSK



8- DPSK:



7. Dwell Time

7.1. Test limit

Please refer section 15.247

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

7.2. Test Procedure

- 7.2.1. Place the EUT on the table and set it in transmitting mode.
- 7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 7.2.3. Set center frequency of spectrum analyzer = operating frequency.
- 7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Results

PASS.

Detailed information please see the following page.

EUT: mPOS M/N: QPOS ultra						
Test date: 2015-11-27		Test site: RF site		Tested by: Reak		
Mode	Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Conclusion
GFSK	DH1	2441	0.39	0.250	<0.4	PASS
	DH3	2441	1.647	0.351	<0.4	PASS
	DH5	2441	2.896	0.371	<0.4	PASS
$\pi/4$ DQPSK	DH1	2441	0.4	0.256	<0.4	PASS
	DH3	2441	1.644	0.351	<0.4	PASS
	DH5	2441	2.902	0.371	<0.4	PASS
8- DPSK	DH1	2441	0.407	0.260	<0.4	PASS
	DH3	2441	1.649	0.352	<0.4	PASS
	DH5	2441	2.897	0.371	<0.4	PASS

Note: 1 A period time = 0.4 (s) * 79 = 31.6(s)

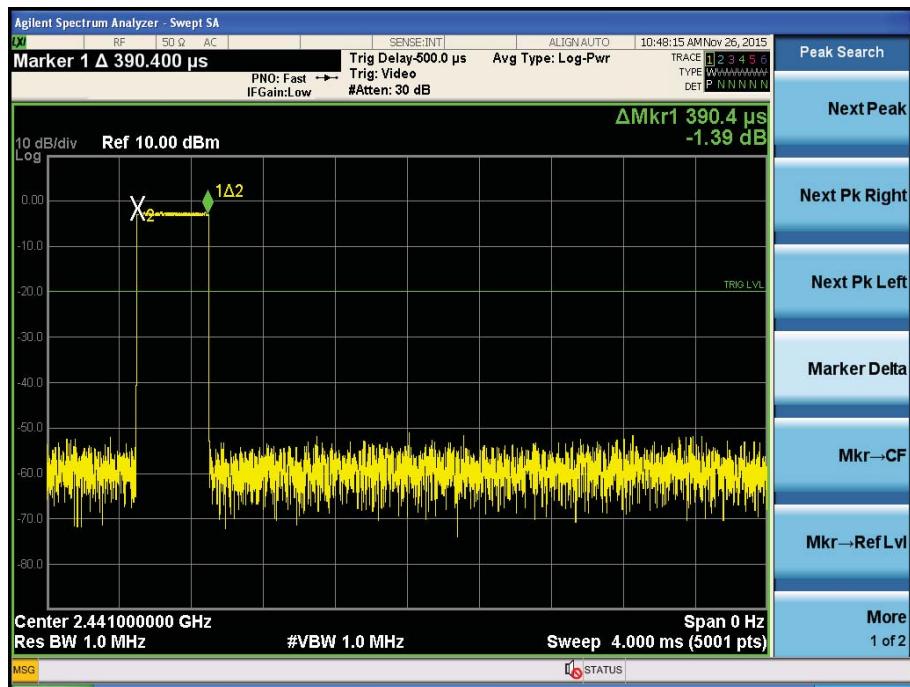
2 DH1 time slot = Pulse Duration * (1600/(1*79)) * A period time/1000

DH3 time slot = Pulse Duration * (1600/(3*79)) * A period time/1000

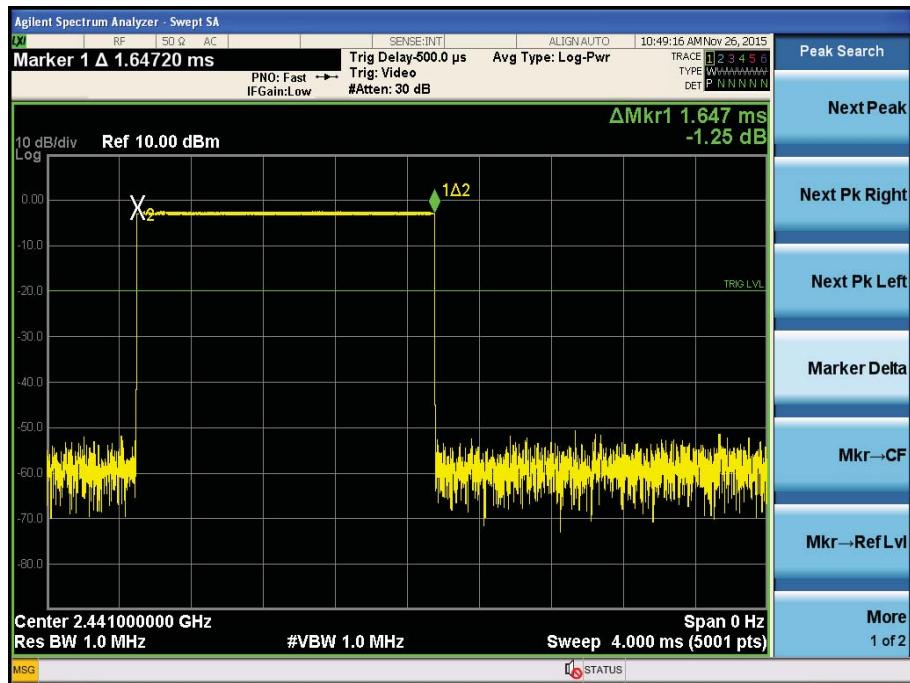
DH5 time slot = Pulse Duration * (1600/(5*79)) * A period time/1000

GFSK

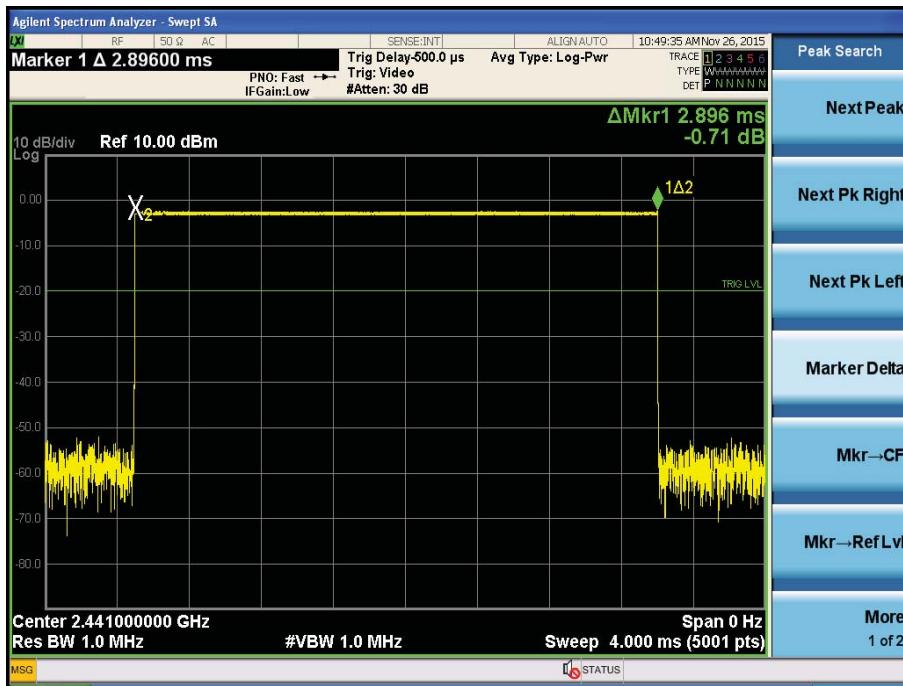
DH1:



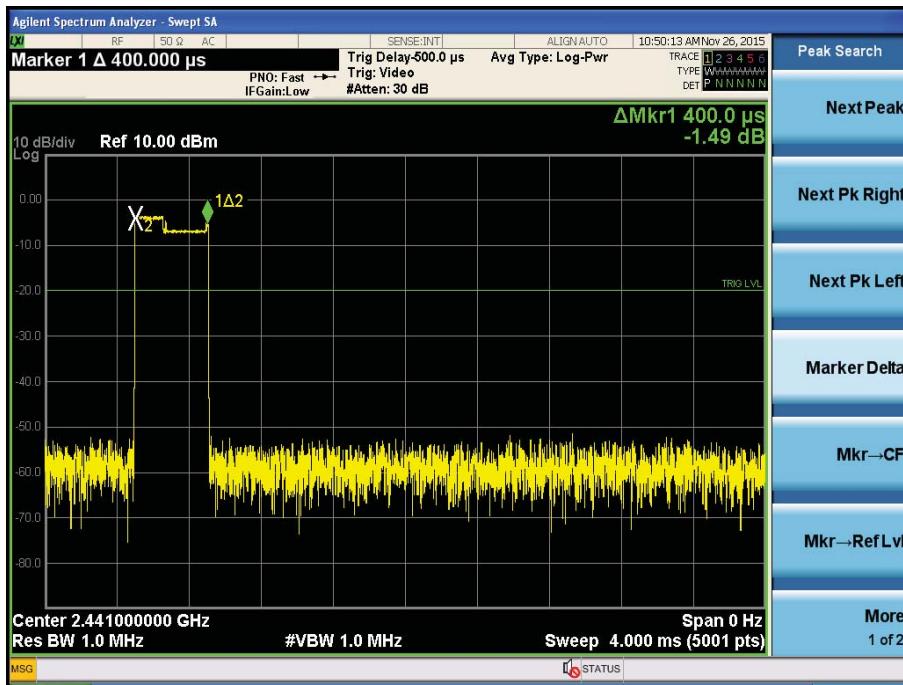
DH3:



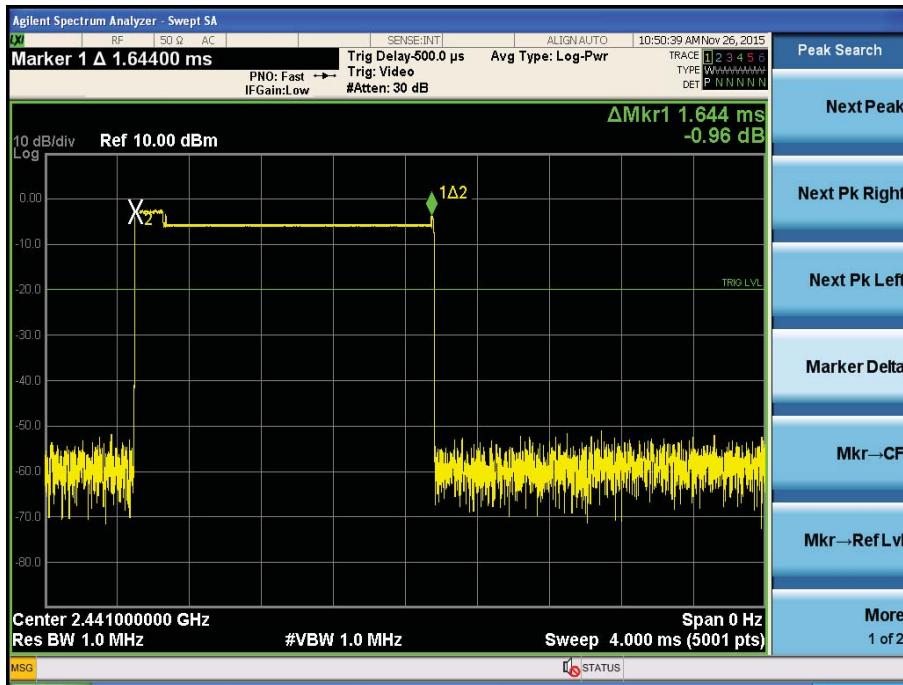
DH5



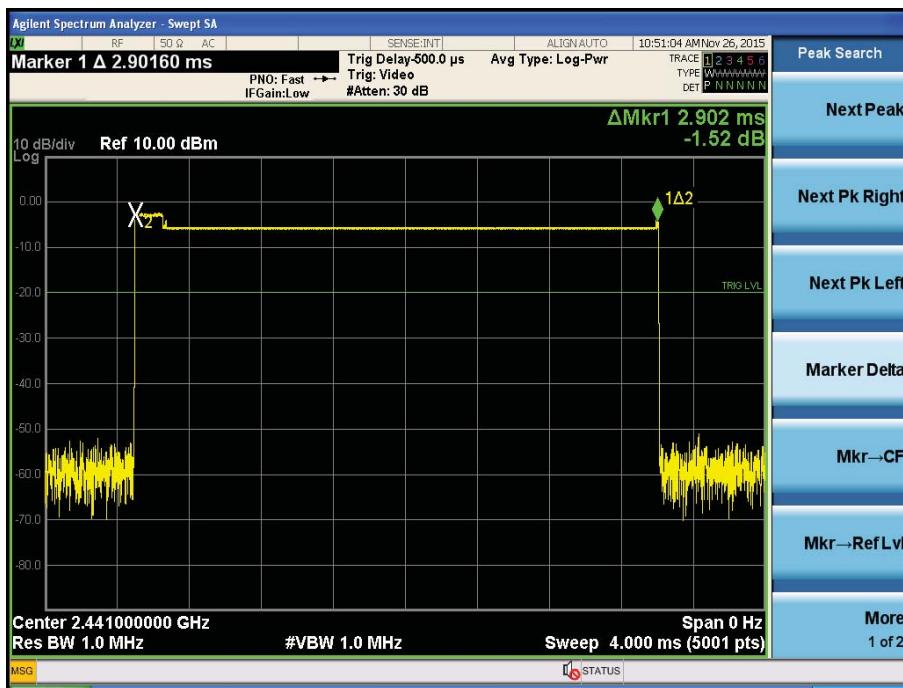
$\pi/4$ DQPSK
DH1



DH3

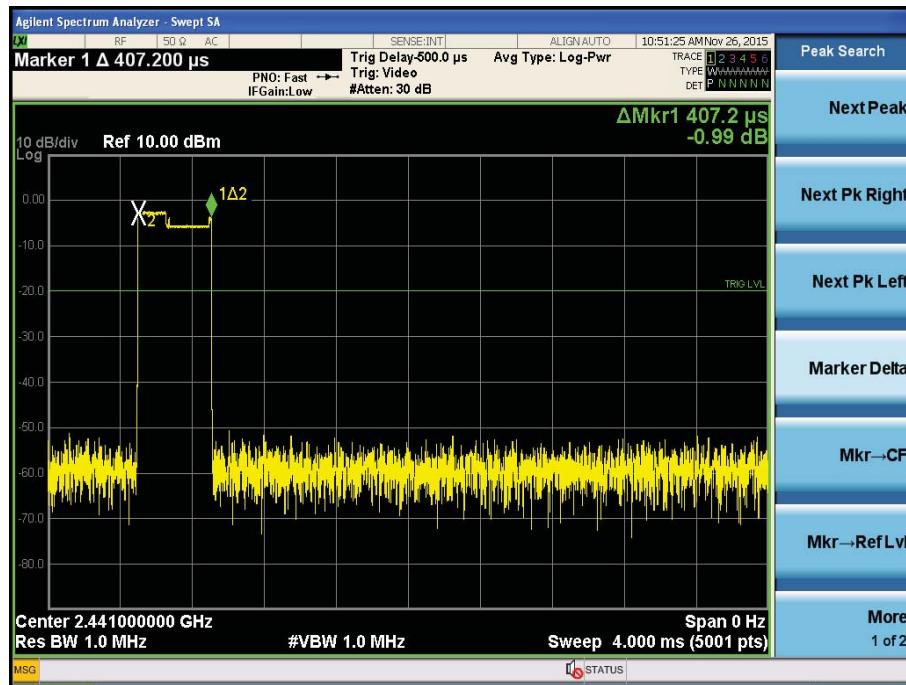


DH5

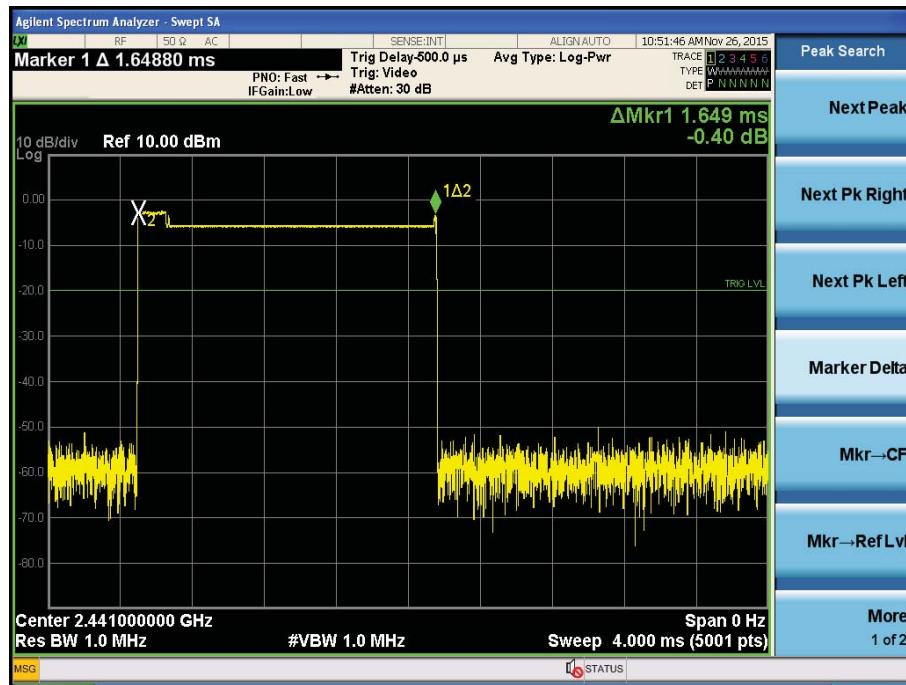


8- DPSK:

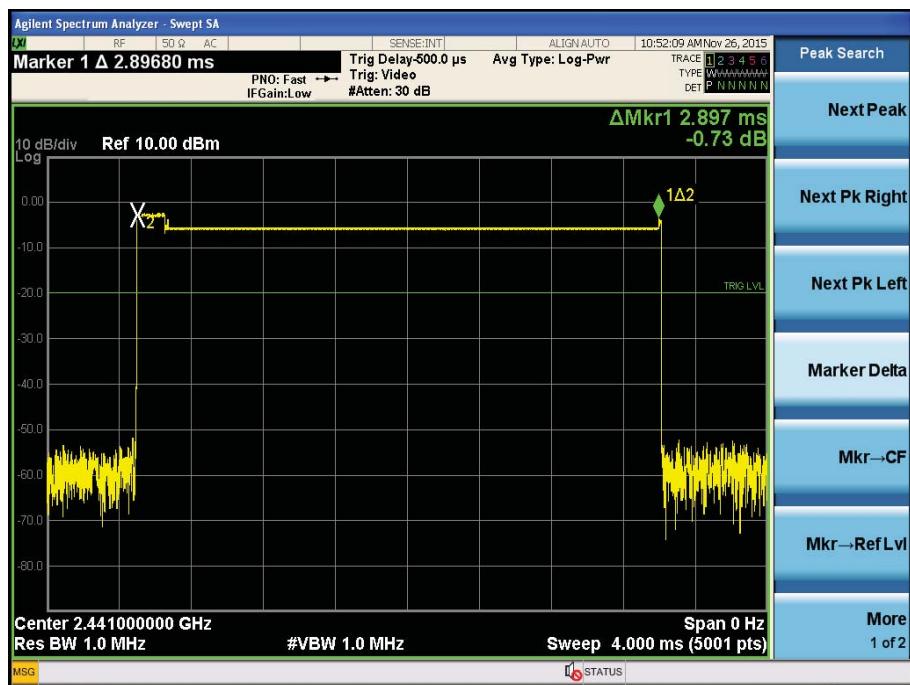
DH1:



DH3:



DH5:



8. Radiated emissions

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

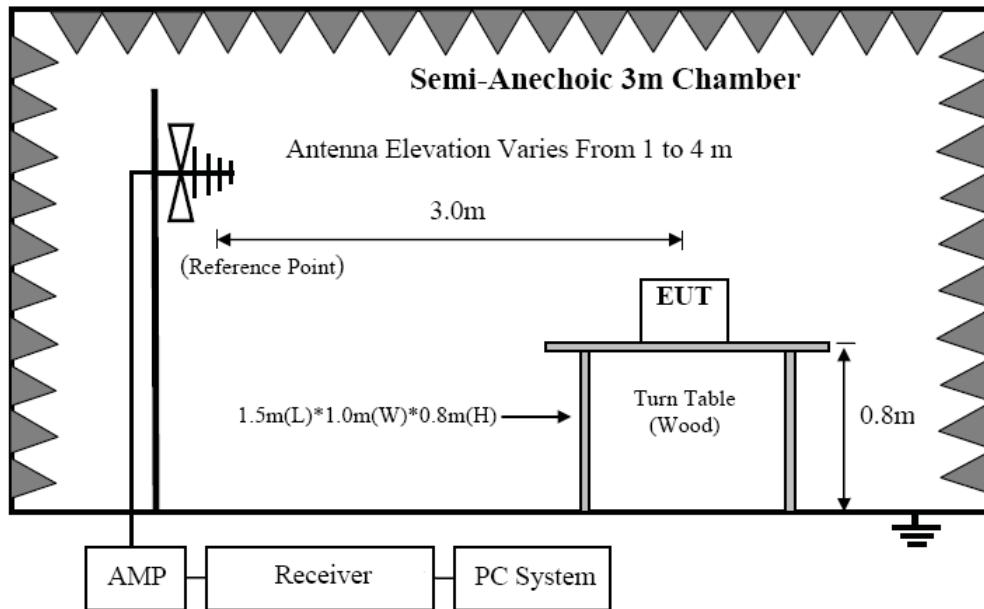
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

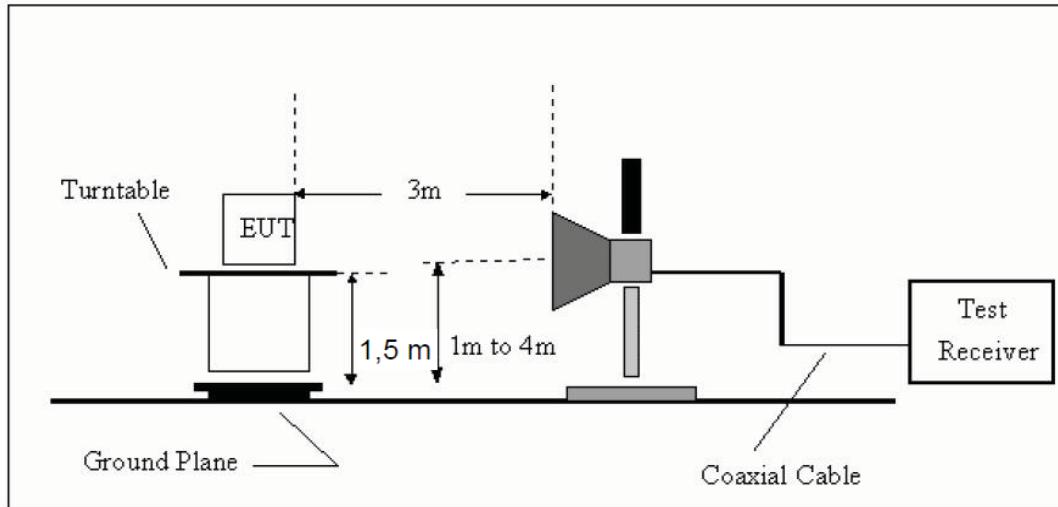
FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above	1000	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

8.2. Block Diagram of Test setup

8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 :2014 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

8.4. Test Result

We have scanned the 10th harmonic from 9KHz to the EUT.

Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

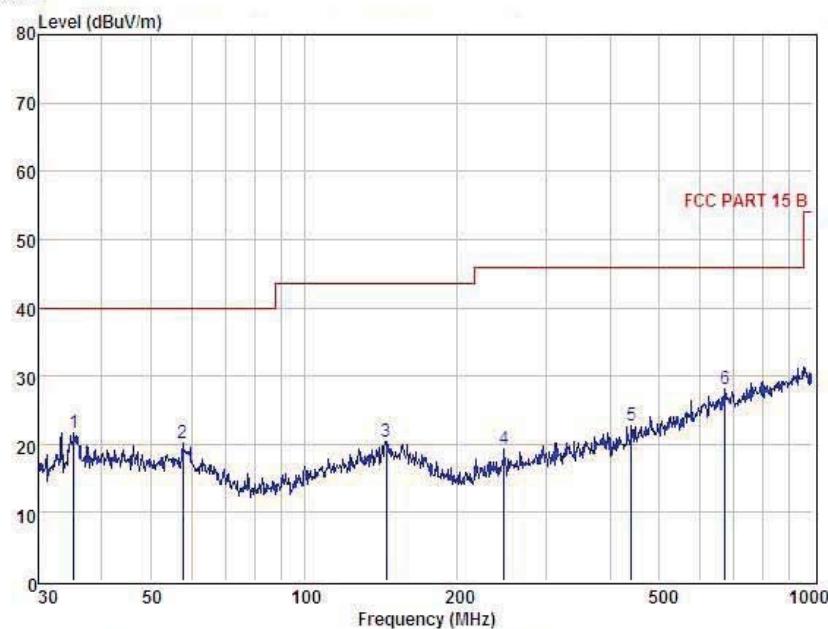
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1000MHz: Conclusion: PASS



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Tel: +86-755-29766001 FAX: +86-755-86375565
Website <http://www.a-lab.cn> Email service@a-lab.cn

Data: 7



Condition : FCC PART 15 B 3m POL: HORIZONTAL

EUT :

Model No :

Test Mode :

Power :

Test Engineer :

Remark :

Temp : 24.2°C

Hum : 54%

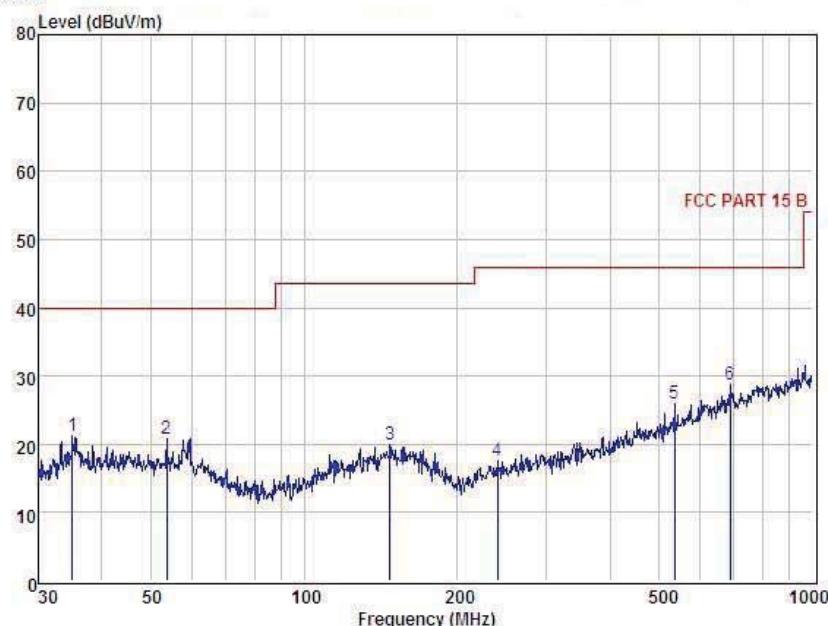
Item	Freq	Read	Antenna	Preamp	Cable	Level	Limit	Margin	Remark
		Level	Factor	Factor	Cable	dBuV	dBuV	dBuV	
	MHz	dBuV	dB	dB	Loss				
1	35.25	40.13	13.39	31.94	0.13	21.71	40.00	-18.29	Peak
2	57.80	38.88	12.91	31.77	0.23	20.25	40.00	-19.75	Peak
3	144.84	37.43	13.77	31.21	0.46	20.45	43.50	-23.05	Peak
4	247.68	37.91	11.55	30.72	0.58	19.32	46.00	-26.68	Peak
5	440.20	36.30	15.72	30.10	0.88	22.80	46.00	-23.20	Peak
6	672.84	36.71	19.38	29.31	1.22	28.00	46.00	-18.00	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Data: 8



Condition : FCC PART 15 B 3m POL: VERTICAL

EUT :

Model No. :

Test Mode :

Power :

Test Engineer :

Remark :

Temp : 24.2 °C

Hum : 54%

Item	Freq	Read	Antenna	Preamp	Cable	Level	Limit	Margin	Remark
		Level	Factor	Factor	Cable	dBuV	dBuV	dBuV	
	MHz	dBuV	dB	dB	Loss				
1	35.00	39.62	13.39	31.94	0.13	21.20	40.00	-18.80	Peak
2	53.69	39.25	13.22	31.79	0.22	20.90	40.00	-19.10	Peak
3	147.40	36.84	13.30	31.20	0.37	19.91	43.50	-23.59	Peak
4	239.99	36.40	11.45	30.75	0.53	17.63	46.00	-28.37	Peak
5	535.71	37.25	17.13	29.53	1.03	25.88	46.00	-20.12	Peak
6	689.56	37.24	19.54	29.29	1.33	26.82	46.00	-17.18	Peak

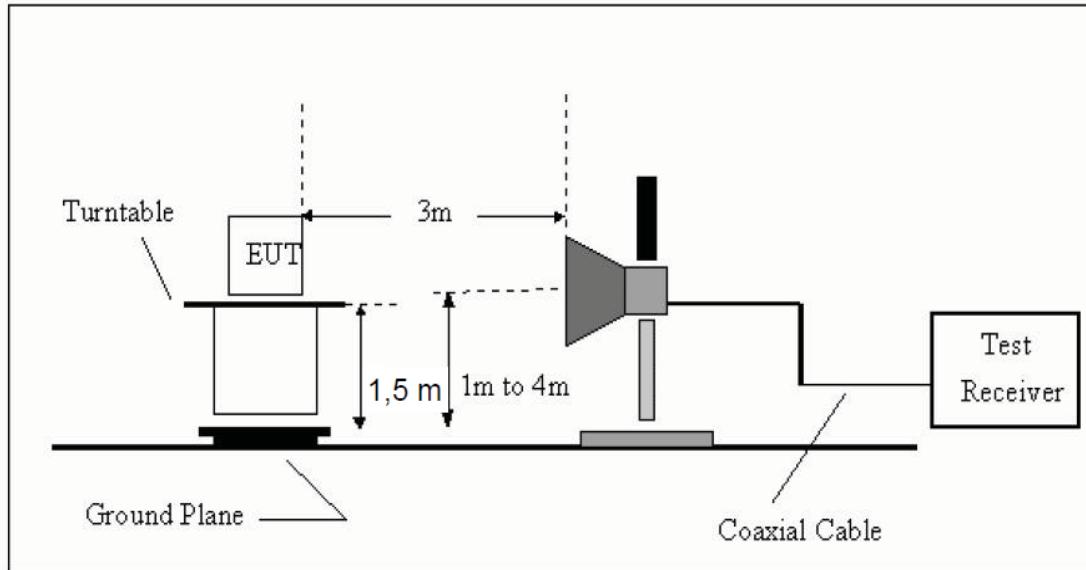
Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Remark: All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.

1GHz—25GHz Radiated emission Test result																
EUT: mPOS		M/N: QPOS ultra														
Power: DC 3.7V From Battery																
Test date: 2015-11-25			Test site: 3m Chamber		Tested by: Reak											
Test mode: GFSK Tx CH79 2480MHz																
Antenna polarity: Vertical																
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
1	4960	44.65	33.98	10.22	34.25	54.6	74	19.4	PK							
2	4960	35.61	33.98	10.22	34.25	45.56	54	8.44	AV							
3	7440	/														
4	9920	/														
5	12400	/														
Antenna Polarity: Horizontal																
1	4960	46.1	33.98	10.22	34.25	56.05	74	17.95	PK							
2	4960	35.98	33.98	10.22	34.25	45.93	54	8.07	AV							
3	7440	/														
4	9920	/														
5	12400	/														

9. Band Edge Compliance

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

All restriction band and non-restriction band have been tested, only worse case is reported.

9.4. Test Result

PASS. (See below detailed test data)

Radiated Method

GFSK (CH Low)

GFSK (CH High)

GFSK (Hopping Low)

GFSK (Hopping High)

$\pi/4$ DQPSK (CH Low)

$\pi/4$ DQPSK (CH High)