



TEST REPORT

For

Applicant : BRAVEN LC

Address : 6001 Oak Canyon, Irvine, CA 92618 USA

Product Name : Braven BRV-XXL Speaker

Model Name : BRV-XXL

Brand Name : BRAVEN

FCC ID : Z7RBXXL

Report No. : MTE/DYY/A15111526

Date of Issue : Nov. 18, 2015

Issued by : Most Technology Service Co., Ltd.

**Address : No.5, 2nd Langshan Road, North District, Hi-tech Industrial
Park, Nanshan, Shenzhen, Guangdong, China**

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Braven BRV-XXL Speaker
Brand Name: BRAVEN
Model Number: BRV-XXL
FCC ID: Z7RBXXL
Applicant: BRAVEN LC
 6001 Oak Canyon, Irvine, CA 92618 USA
Manufacturer: Plastoform Electronics (Shenzhen) Company Limited.
 Building No. 16, 21 B Zone, The 1st Industrial Zone, Gonghe
 Community, Shajing Street, Baoan District, Shenzhen City,
 Guangdong, P.R.C
Technical Standards: 47 CFR Part 15 Subpart C
File Number: MTE/DYY/A15111526
Date of test: Nov. 06-10, 2015
Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Prepared by (+ signature): *Daisy*
 Daisy Yu Oct. 10-16, 2015
 Review by (+ signature): *Henry*
 Henry Chen  Oct. 19, 2015
 Approved by (+ signature): *[Signature]*
 Yvette Zhou(Manager) Oct. 19, 2015

2. GENERAL INFORMATION

2.1 Product Information

Product	Braven BRV-XXL Speaker	
Brand Name	BRAVEN	
Model Number	BRV-XXL	
Series Model Name:	N/A	
Series Model Difference description:	N/A	
Power Supply	1. DC 18V by Switching Adaptor 2. DC 11.1V by Battery	
Frequency Range	2402MHz -2480MHz	
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK	
Modulation Technique	FHSS	
Channel Number	79	
Antenna Type	Chip Antenna, 2.66 dBi	
Temperature Range	-10°C ~ +50°C	
Adapter	Model No.	FJ-SW1803500D
	Manufacturer	Shenzhen Fujia Appliance CO., Ltd.
		Bldg. B1#, Xujingchang Technology Ind. Park, Haoye Road, Xinghe Village, Fuyong Town, Baoan District, Shenzhen, Guangdong 518103, P.R. China

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to FCC Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices
2	DA00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

2.3 Test Standards and Results

No.	Section	Test Items	Result	Date of Test
1	FCC 15.247 (i)	RF EXPOSURE	PASS	2015-11-09
2	FCC 15.203	Antenna Requirement	PASS	2015-11-10
3	FCC15.207 (a)	AC Power Line Conducted Emission	PASS	2015-11-10
4	FCC15.209, 15.247(d)	Radiated Emission	PASS	2015-11-06
5	FCC 15.247 (b)(1)	Conducted Peak Output Power	PASS	2015-11-06
6	FCC 15.247 (a)(1)	20dB Emission Bandwidth	PASS	2015-11-09
7	FCC 15.247 (a)(1)	Carrier Frequency Separation	PASS	2015-11-06
8	FCC 15.247 (a)(1)(iii)	Number of Hopping Channel	PASS	2015-11-09
9	FCC 15.247 (a)(1) (iii)	Dwell Time	PASS	2015-11-09
10	FCC15.247(d)	Band Edge and Conducted Spurious Emissions	PASS	2015-11-09
11	FCC15.247(d)	Restricted Frequency Bands	PASS	2015-11-09

Remark: N/A means not applicable

Note: 1. The test result judgment is decided by the limit of measurement standard
 2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

3. TEST METHODOLOGY

3.1 TEST FACILITY

Test Site:	Most Technology Service Co., Ltd
Location:	No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR 16 requirements. The FCC Registration Number is 490827 . The IC Registration Number is 7103A-1 .
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument	All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16
Tolerance:	requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 8.3.1 of ANSI C63.4:2009.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.3 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Input	Output
---	---	---	---	---	---

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10	1 Year
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2015/03/14	1 Year
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2015/03/10	1 Year
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07	1 Year
5	Terminator	Hubersuhner	50Ω	No.1	2015/03/07	1 Year
6	RF Cable	SchwarzBeck	N/A	No.1	2015/03/07	1 Year
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2015/03/10	1 Year
8	Bilog Antenna	Sunol	JB3	A121206	2015/03/14	1 Year
9	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2015/03/14	1 Year
10	Horn Antenna	Penn Engineering	9034	8376	2015/03/14	1 Year
11	Cable	Resenberger	N/A	NO.1	2015/03/07	1 Year
12	Cable	SchwarzBeck	N/A	NO.2	2015/03/07	1 Year
13	Cable	SchwarzBeck	N/A	NO.3	2015/03/07	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2015/03/07	1 Year
15	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10	1 Year
16	Loop antenna	ARA	PLA-1030/B	1039	2015/03/14	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C Requirements

5.1 RF EXPOSURE

5.1.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission’s guideline.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density; According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

5.1.2 Result:

Mode	Frequency (MHz)	Antenna Gain		Conducted Power		Evaluation Distance(cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
GFSK	2480	2.66	1.85	-0.036	0.9917	20	0.000365	1
π /4-DQPSK	2480	2.66	1.85	-0.596	0.8718	20	0.000321	1
8DPSK	2480	2.66	1.85	-0.424	0.9070	20	0.000334	1

Note: To maintain compliance with the FCC’s RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

5.2 ANTENNA REQUIREMENT

5.2.1 Applicable Standard

According to FCC § 15.203 , 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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2.2 Evaluation Criteria

(a) Antenna must be permanently attached to the unit.

(b) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.2.3 Result: Compliance.

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is 2.66dBi, fulfill the requirement of this section.

5.3 AC Power Line Conducted Emission

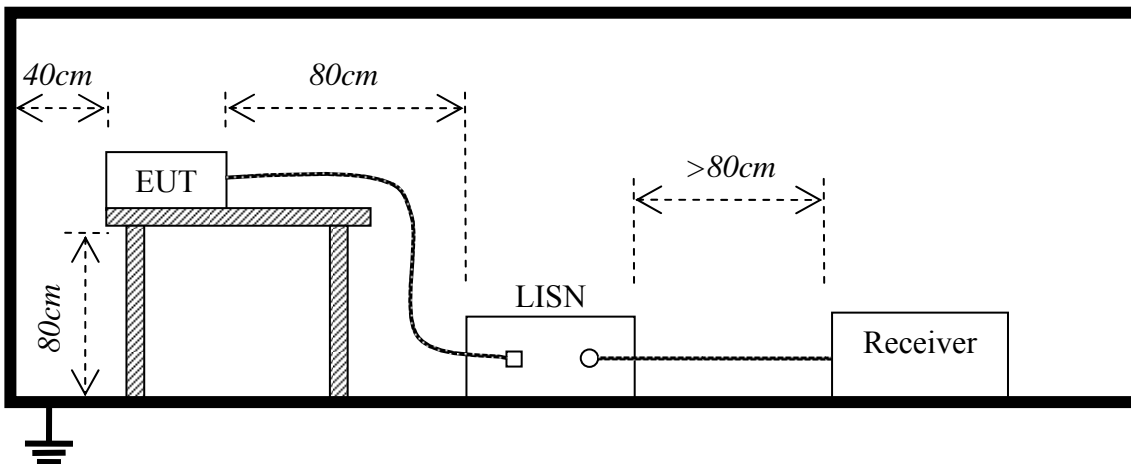
5.3.1 Requirement

A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the and 150 kHz-30 MHz, shall not exceed the limits in the following table:

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

****Note:** 1. the lower limit shall apply at the band edges.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.2 Block Diagram of Test Setup



5.3.3 Test procedure

1. 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.
2. Exploratory measurements were made to identify the frequency of the emission that has the highest amplitude relative to the limit;
3. 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).
4. 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: 2009 on conducted measurement.
5. The bandwidth of test receiver (ESCI) set at 9 KHz.
6. All data was recorded in the Quasi-peak and average detection mode.

5.3.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86026850 Fax: 0755-26013350

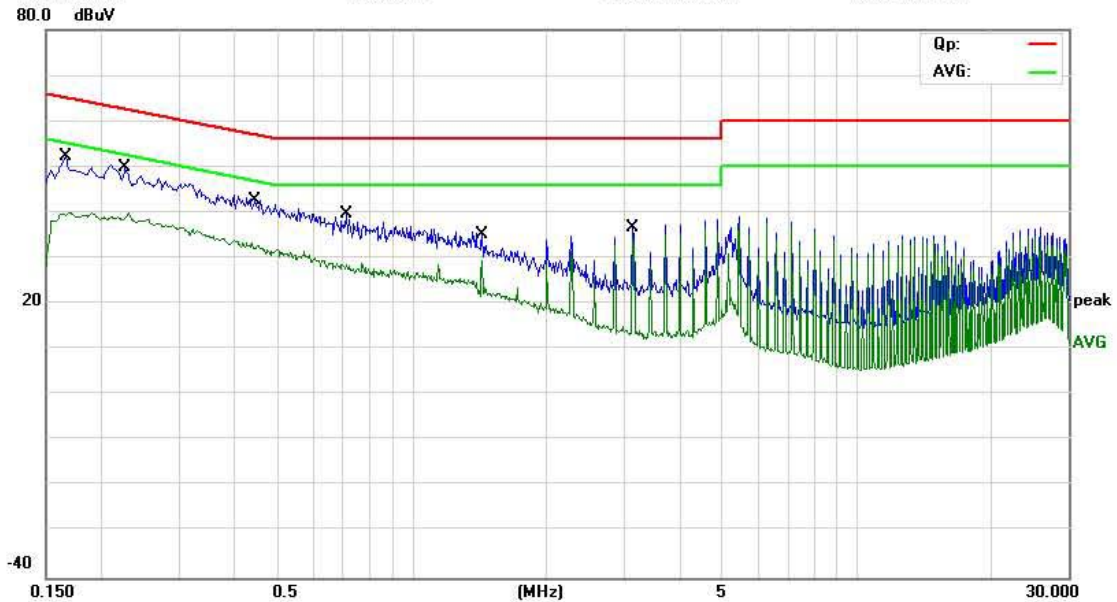
Conducted Emission Measurement

File: BRVXXL

Data: #35

Date: 2015/11/10

Time: 18:29:35



Site: MOST #1

Phase: **L1**

Temperature: 23.4

Limit: FCC Part15 B Class B QP

Power: DC 18V by Switching Adaptor

Humidity: 52.7 %

EUT: Braven BRV-XXL Speaker

M/N: BRV-XXL

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1660	42.15	9.96	52.11	65.16	-13.05	QP	
2		0.1660	29.54	9.96	39.50	55.16	-15.66	AVG	
3		0.2260	37.98	11.83	49.81	62.60	-12.79	QP	
4		0.2260	26.89	11.83	38.72	52.60	-13.88	AVG	
5		0.4460	32.36	10.36	42.72	56.95	-14.23	QP	
6		0.4460	21.71	10.36	32.07	46.95	-14.88	AVG	
7		0.7020	26.62	10.00	36.62	56.00	-19.38	QP	
8		0.7020	18.21	10.00	28.21	46.00	-17.79	AVG	
9		1.4340	25.59	9.57	35.16	56.00	-20.84	QP	
10		1.4340	19.75	9.57	29.32	46.00	-16.68	AVG	
11	*	3.1540	24.15	10.15	34.30	46.00	-11.70	AVG	
12		3.1580	24.62	10.16	34.78	56.00	-21.22	QP	

*:Maximum data x:Over limit l:over margin

Engineer Signature: FLY



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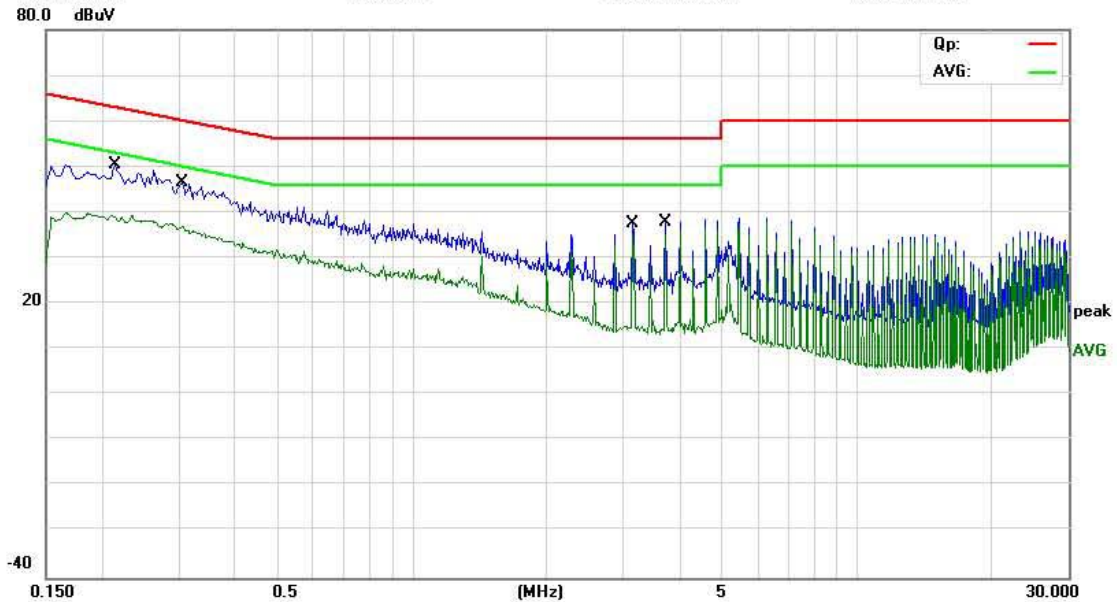
Conducted Emission Measurement

File: BRVXXL

Data: #36

Date: 2015/11/10

Time: 18:31:19



Site: MOST #1

Phase: **N**

Temperature: 23.4

Limit: FCC Part15 B Class B QP

Power: DC 18V by Switching Adaptor

Humidity: 52.7 %

EUT: Braven BRV-XXL Speaker

M/N: BRV-XXL

Mode: GFSK-CH0

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2127	37.68	11.92	49.60	63.10	-13.50	QP	
2		0.2127	27.27	11.92	39.19	53.10	-13.91	AVG	
3		0.3034	35.08	11.31	46.39	60.15	-13.76	QP	
4		0.3034	25.47	11.31	36.78	50.15	-13.37	AVG	
5		3.1540	27.42	10.15	37.57	56.00	-18.43	QP	
6	*	3.1540	24.71	10.15	34.86	46.00	-11.14	AVG	
7		3.7540	14.74	10.75	25.49	56.00	-30.51	QP	
8		3.7540	4.96	10.75	15.71	46.00	-30.29	AVG	

*:Maximum data x:Over limit l:over margin

Engineer Signature: FLY

5.4 Radiated Emission

5.4.1 Requirement

According to FCC section 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC section 15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3-meter)	Test Distance (m)	Field Strength ($\text{dB}\mu\text{V}/\text{m}$ at 3-meter)
0.009 - 0.490	2400/F(kHz)	300	
0.490 - 1.705	24000/F(kHz)	30	
1.705-30	30	30	
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Note:

1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

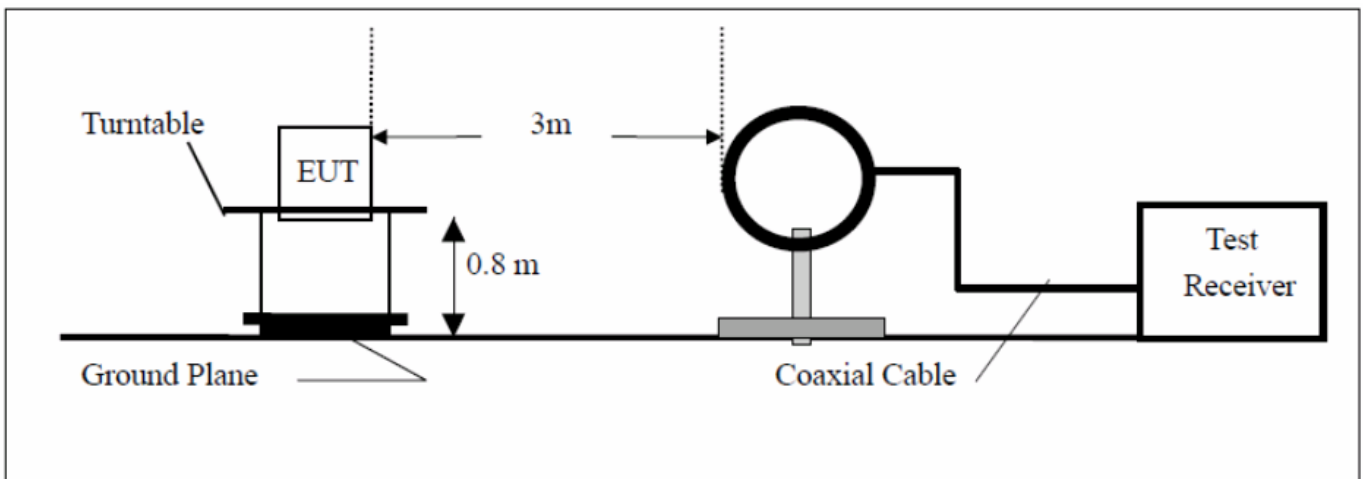
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

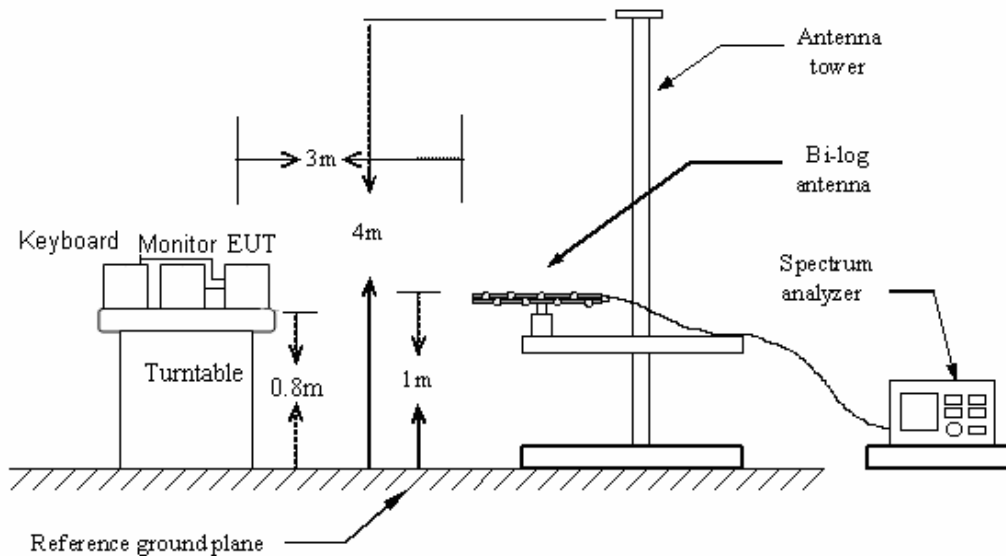
5.4.2 Test Configuration

Test Setup:

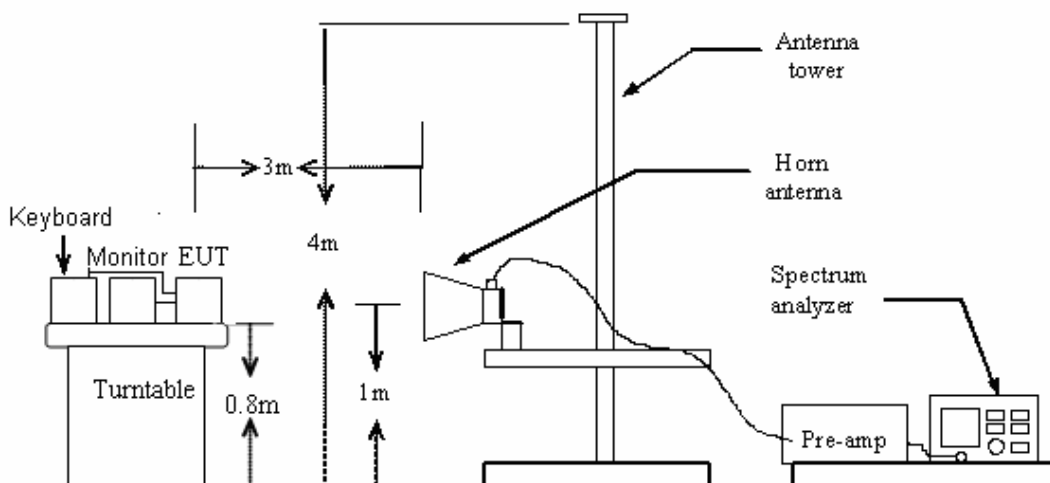
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz

**5.4.3 Test Procedure:**

1. For frequencies above 1GHz, the frequencies of maximum emission was recorded by manually positioning the antenna close to the EUT and by moving the antenna over all sides of the EUT while observing a spectral display.
2. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
3. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
4. 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.
5. 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 rote table was turned from 0 degrees to 360 degrees to find the maximum reading.

6. For frequencies above 1GHz, horn antenna mouth should face to the EUT all the time when rise or fall.
7. Set the spectrum analyzer in the following setting as:

Below 1GHz: PEAK: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO QP: RBW=120 kHz / Sweep=AUTO
Above 1GHz: (a)PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b)AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

8. 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.

5.4.4 Test Result

Pass

Remark:

1. During the test, pre-scan the GFSK, $\pi/4$ -QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case in above 1GHz and the GFSK Low channel modulation which it is worse case in below 1GHz.
 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
- Please refer the following pages.

Below 1GHz:



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
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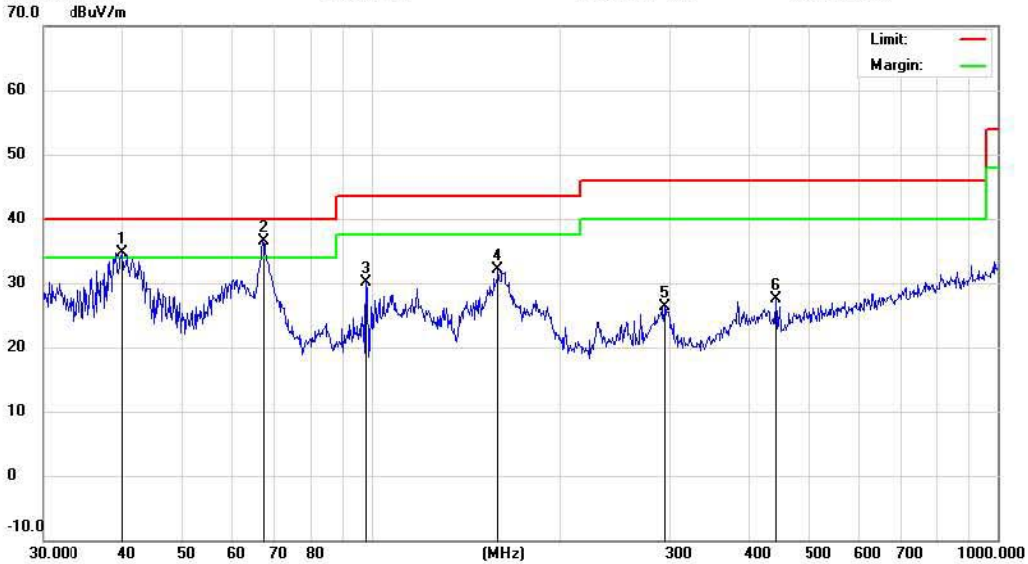
Radiated Emission Measurement

File: BRVXXL

Data: #262

Date: 2015-11-6

Time: 8:43:57



Site: Chamber #1
 Limit: FCC Part15 B 3M Radiation
 EUT: Braven BRV-XXL Speaker
 M/N: BRV-XXL
 Mode: GFSK-CH0
 Note:

Polarization: **Vertical**
 Power: DC 11.1V by Battery
 Distance: 3m

Temperature: 24
 Humidity: 50.5 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	I	40.1347	18.81	15.92	34.73	40.00	-5.27	QP			
2	*	67.2022	24.99	11.44	36.43	40.00	-3.57	QP			
3		98.1418	17.30	12.86	30.16	43.50	-13.34	QP			
4		159.7844	14.76	17.28	32.04	43.50	-11.46	QP			
5		294.1136	6.91	19.36	26.27	46.00	-19.73	QP			
6		441.7425	7.20	20.27	27.47	46.00	-18.53	QP			

*:Maximum data x:Over limit I:over margin

Engineer Signature: Deft



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 Guangdong, China
 Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: BRVXXL Data: #263 Date: 2015-11-6 Time: 8:54:35



Site: Chamber #1 Polarization: **Horizontal** Temperature: 24
 Limit: FCC Part15 B 3M Radiation Power: DC 11.1V by Battery Humidity: 50.5 %
 EUT: Braven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH0
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Detector	Comment
1	I	67.6751	26.08	11.49	37.57	40.00	-2.43			QP	
2	*	98.1419	28.69	12.86	41.55	43.50	-1.95			QP	
3		120.2766	19.77	17.51	37.28	43.50	-6.22			QP	
4		173.8135	18.31	17.01	35.32	43.50	-8.18			QP	
5		251.1804	18.52	17.42	35.94	46.00	-10.06			QP	
6		292.0583	20.14	19.38	39.52	46.00	-6.48			QP	

*:Maximum data x:Over limit I:over margin

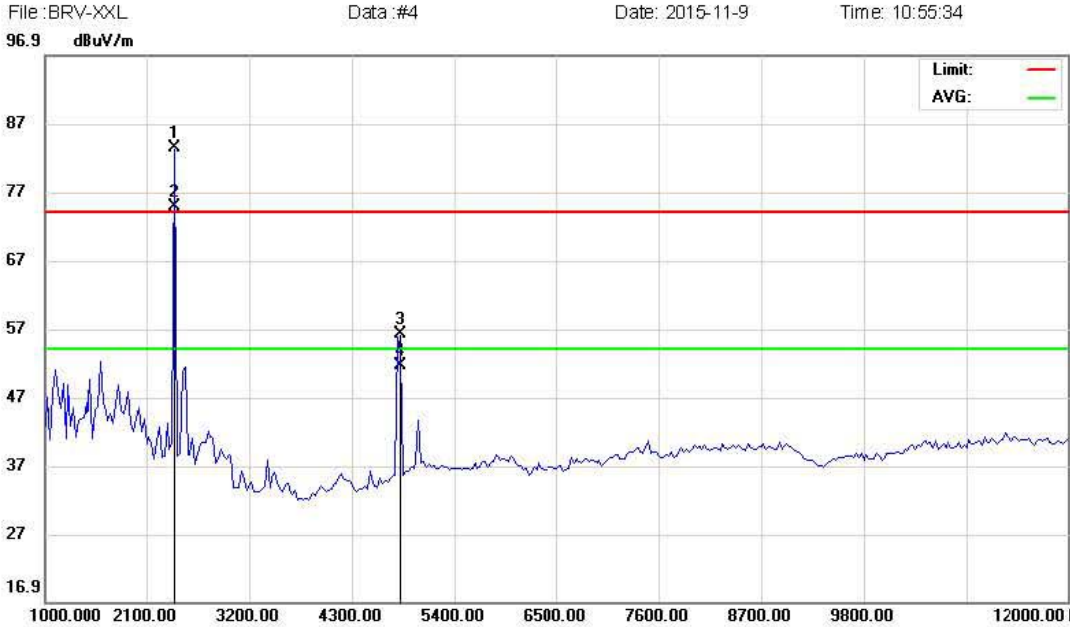
Engineer Signature: Deft

Above 1GHz:



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Radiated Emission Measurement



Site: site #1 Polarization: **Horizontal** Temperature: 24
 Limit: FCC 1-12G PEAK Power: DC 11.1V by Battery Humidity: 50.5 %
 EUT: Brsven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH0
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	X	2402.160	91.80	-8.43	83.37	74.00	9.37			peak
2	*	2402.160	83.20	-8.43	74.77	54.00	20.77			AVG
3		4804.050	62.26	-6.15	56.11	74.00	-17.89			peak
4		4804.050	57.69	-6.15	51.54	54.00	-2.46			AVG

*:Maximum data x:Over limit l:over margin

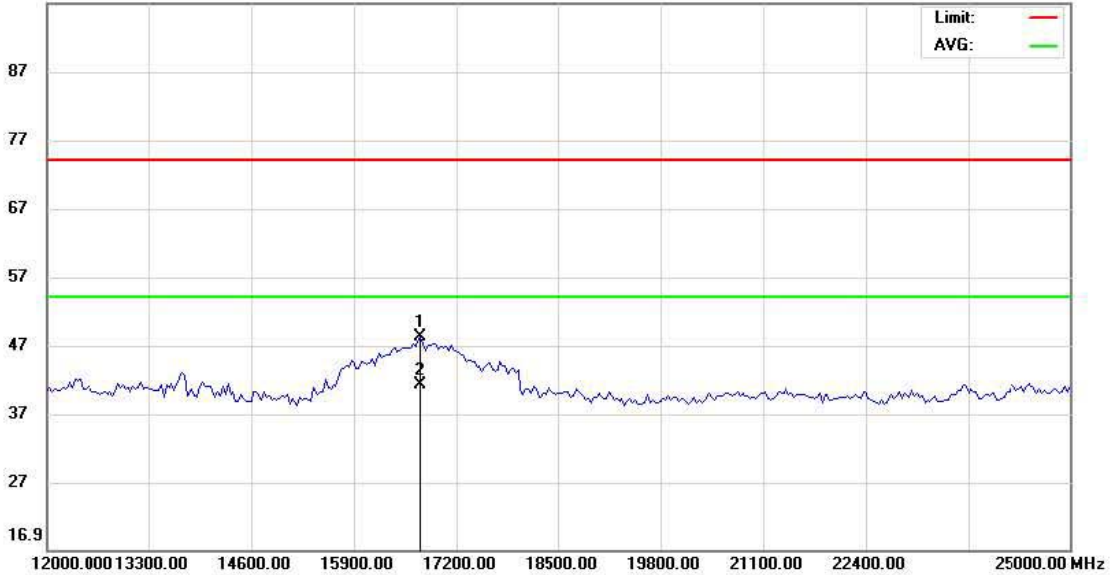
Engineer Signature: Deft



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 Guangdong, China
 Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: BRV-XXL Data: #1 Date: 2015-11-9 Time: 10:05:18



Site site #1 Polarization: **Horizontal** Temperature: 24.9
 Limit: FCC 12-25G PEAK Power: DC 11.1V by Battery Humidity: 51.7 %
 EUT: Brsven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH0
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		16745.00	42.14	6.08	48.22	74.00	-25.78	peak		
2	*	16745.00	35.04	6.08	41.12	54.00	-12.88	AVG		

*:Maximum data x:Over limit l:over margin

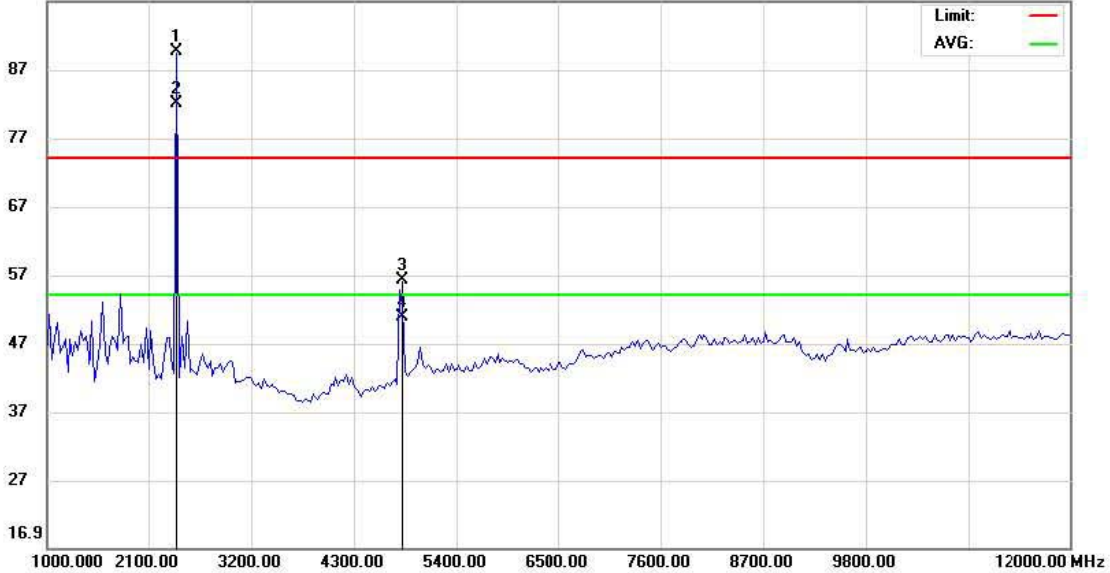
Engineer Signature: Deft



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 Guangdong, China
 Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: BRV-XXL Data: #3 Date: 2015-11-9 Time: 10:27:15



Site site #1 Polarization: **Vertical** Temperature: 24
 Limit: FCC 1-12G PEAK Power: DC 11.1V by Battery Humidity: 50.5 %
 EUT: Brsven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH0
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2402.180	97.96	-8.43	89.53	74.00	15.53	peak		
2	*	2402.180	90.53	-8.43	82.10	54.00	28.10	AVG		
3		4804.395	62.34	-6.15	56.19	74.00	-17.81	peak		
4		4804.395	57.00	-6.15	50.85	54.00	-3.15	AVG		

*:Maximum data x:Over limit l:over margin

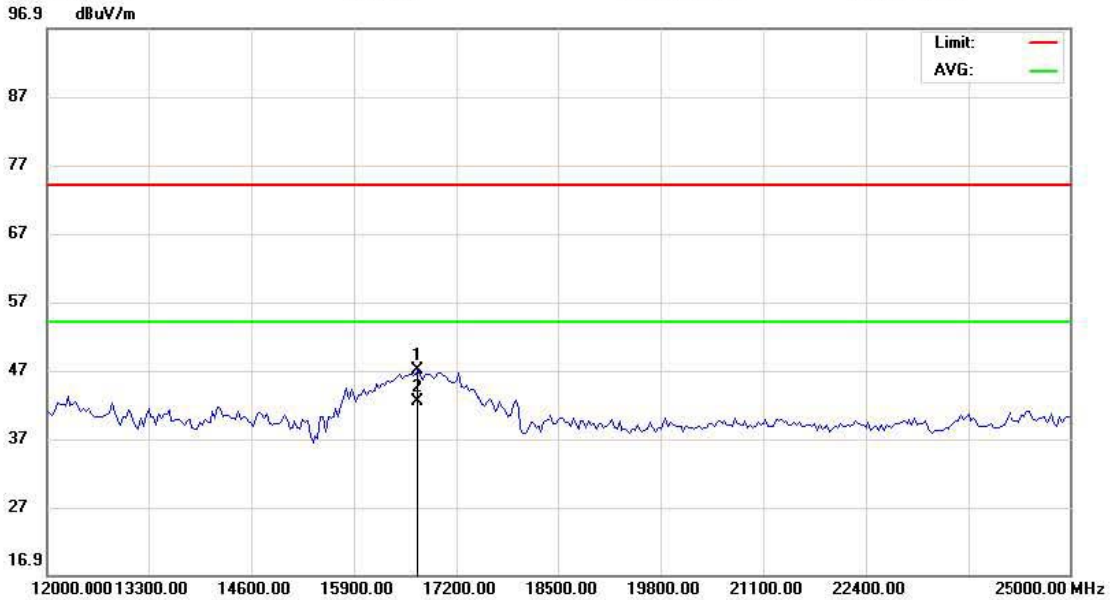
Engineer Signature: Deft



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Radiated Emission Measurement

File: BRV-XXL Data: #2 Date: 2015-11-9 Time: 10:16:25



Site: site #1 Polarization: **Vertical** Temperature: 24.9
 Limit: FCC 12-25G PEAK Power: DC 11.1V by Battery Humidity: 51.7 %
 EUT: Brsven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH0
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		16712.50	41.00	5.98	46.98	74.00	-27.02	peak		
2	*	16712.50	36.42	5.98	42.40	54.00	-11.60	AVG		

*:Maximum data x:Over limit l:over margin

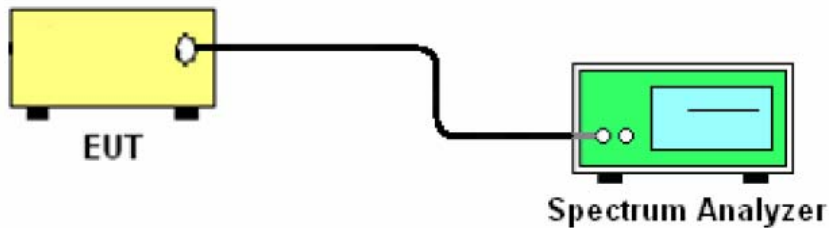
Engineer Signature: Deft

5.5 Conducted Peak Output Power

5.5.1 Requirement

According to FCC Section 15.247(b)(1), 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

5.5.2 Block Diagram of Test Setup



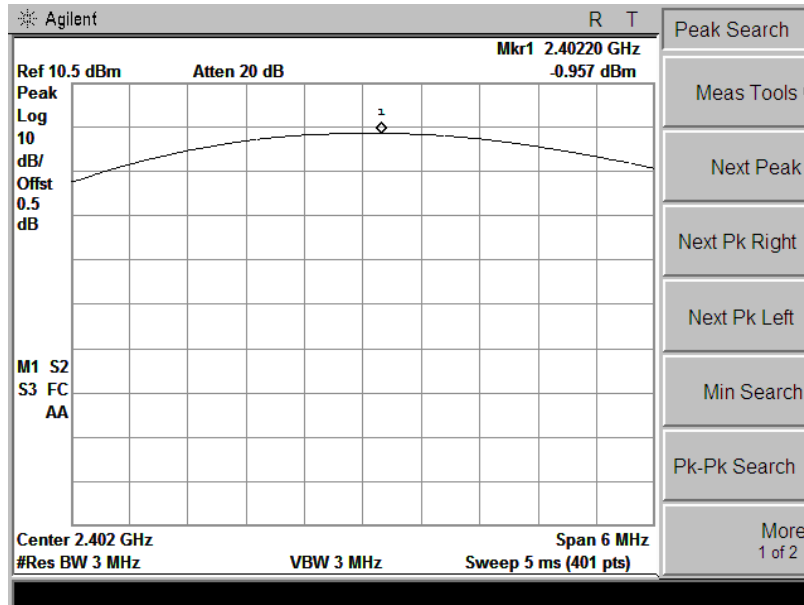
5.5.3 Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI test receiver.
3. Add a correction factor to the display.

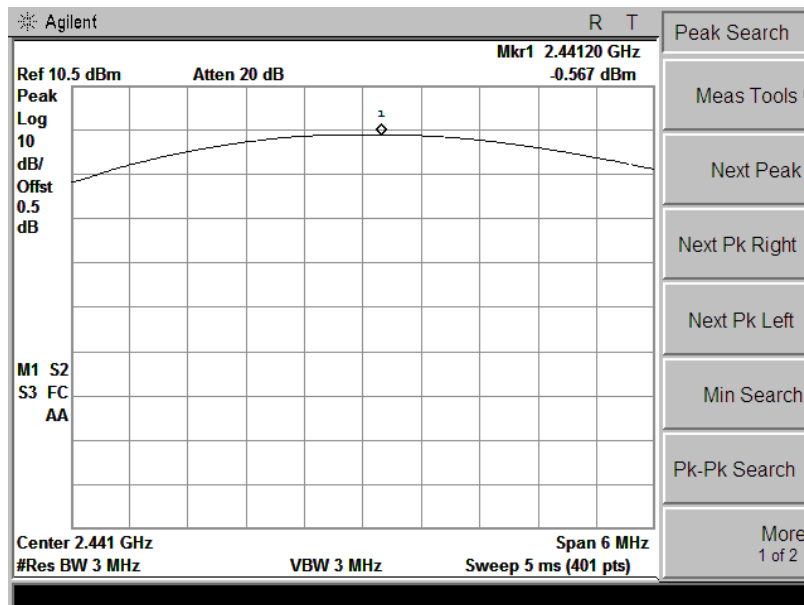
5.5.4 Test Result

Test Item:	Peak Output Power	Temperature :	21°C
Test Engineer:	Kang	Relative Humidity :	59%

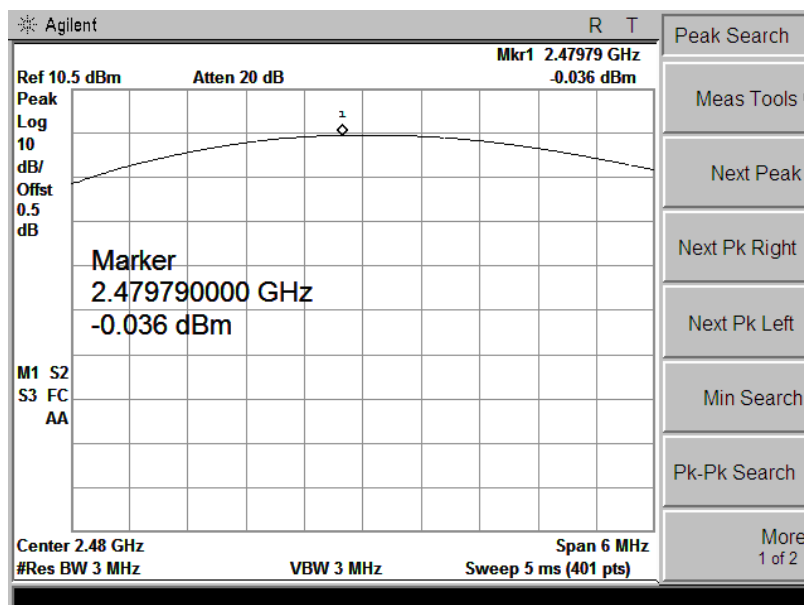
Mode	Channel	Frequency (MHz)	Peak Output Power(dBm)	Limit		Pass/Fail
				(mW)	(dBm)	
BDR (GFSK)	Low	2402	-0.957	125	20.97	Pass
	Middle	2441	-0.567	125	20.97	Pass
	High	2480	-0.036	125	20.97	Pass
EDR ($\pi/4$ -DQPSK)	Low	2402	-1.468	125	20.97	Pass
	Middle	2441	-1.001	125	20.97	Pass
	High	2480	-0.596	125	20.97	Pass
EDR (8DPSK)	Low	2402	-1.349	125	20.97	Pass
	Middle	2441	-0.896	125	20.97	Pass
	High	2480	-0.424	125	20.97	Pass



Ch 0

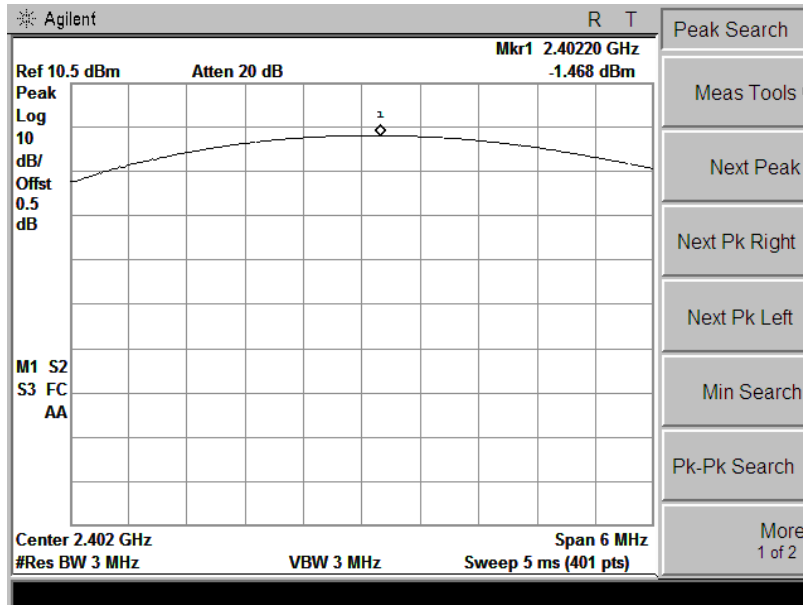


Ch 39

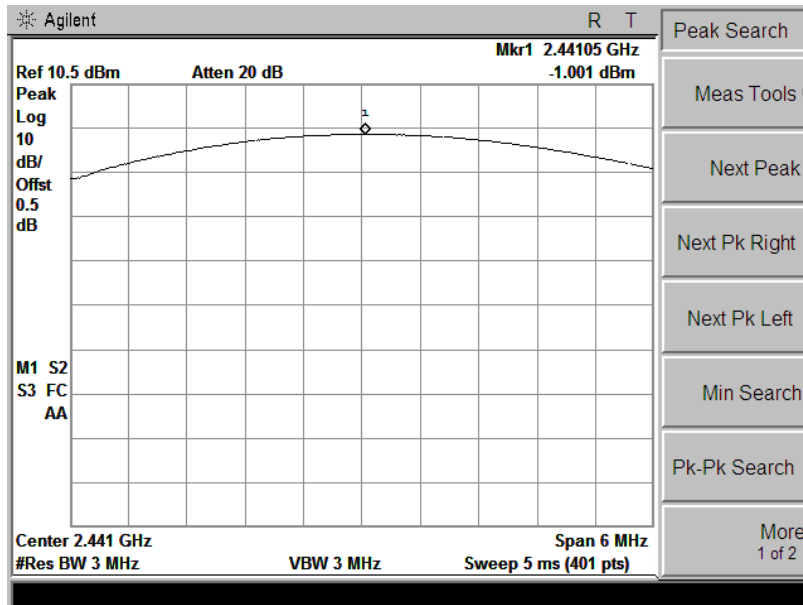


Ch 78

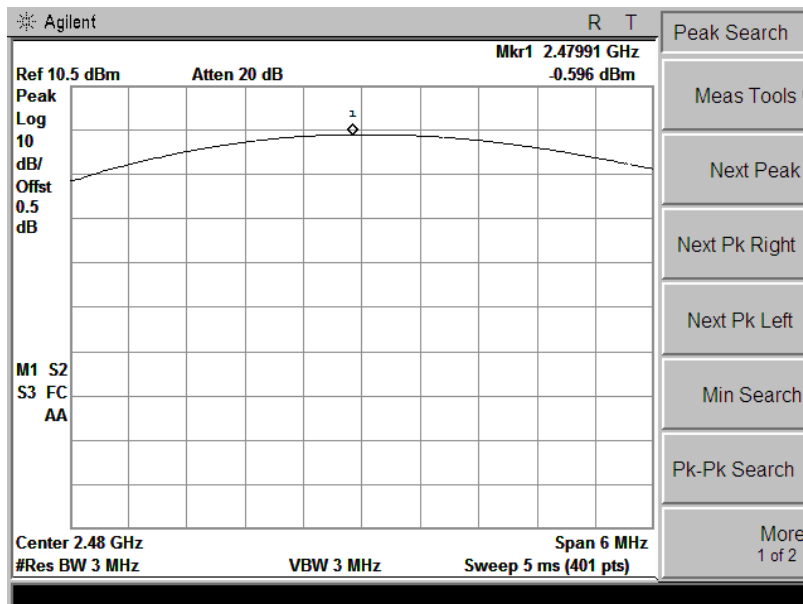
$\pi/4$ -DQPSK Mode



Ch 0

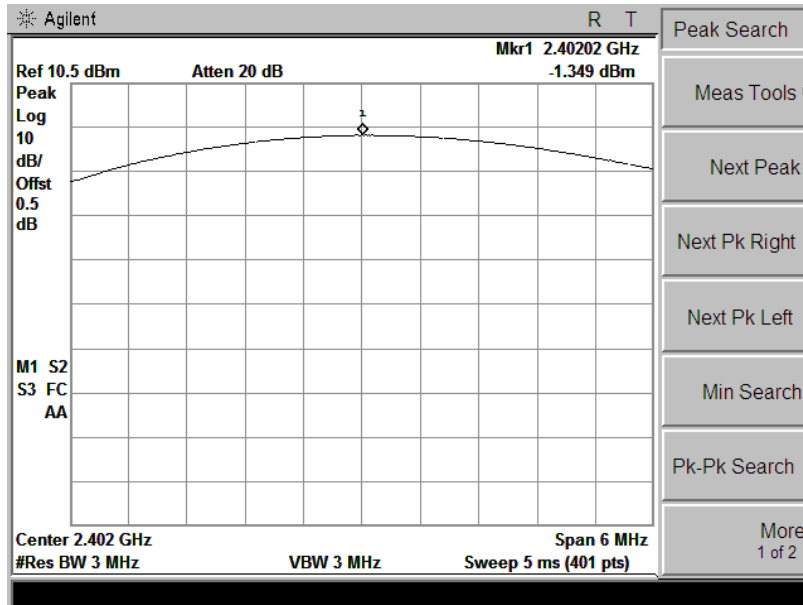


Ch 39

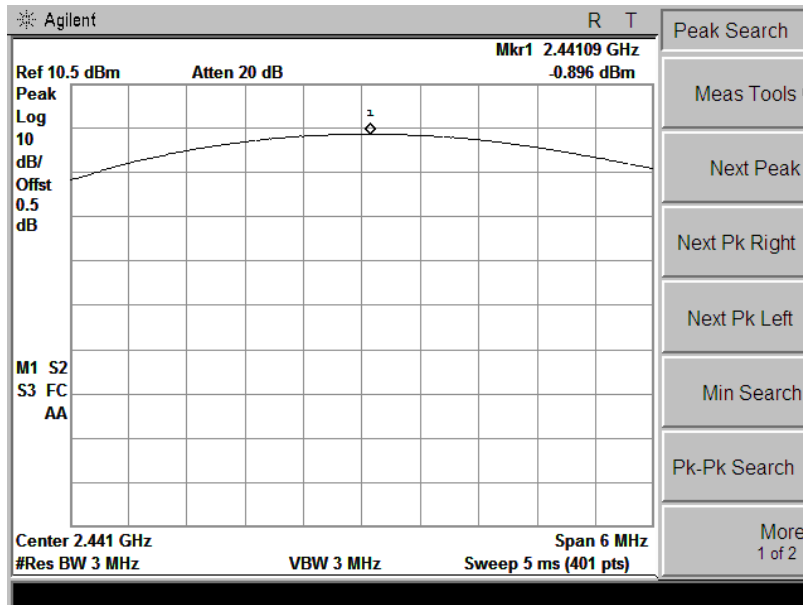


Ch 78

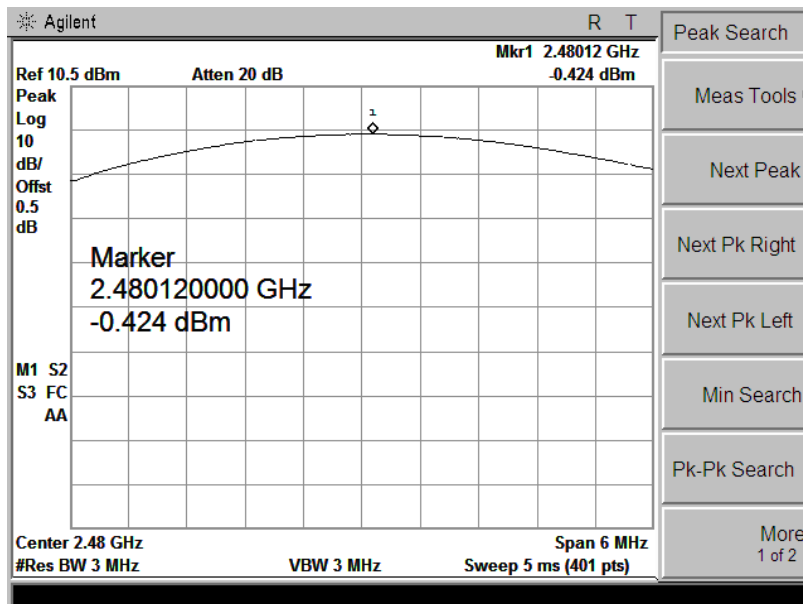
8DPSK Mode



Ch 0



Ch 39



5.6 20dB Emission Bandwidth

5.6.1 Test Requirement

The bandwidth of a frequency hopping channel is the -20 dB emission bandwidth, measured with the hopping stopped.

5.6.2 Test Procedure

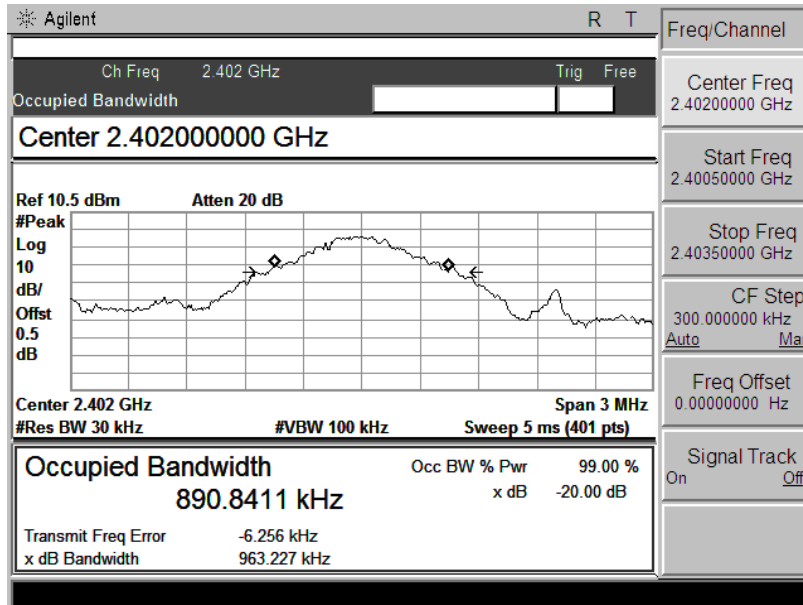
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

5.6.3 Test Result

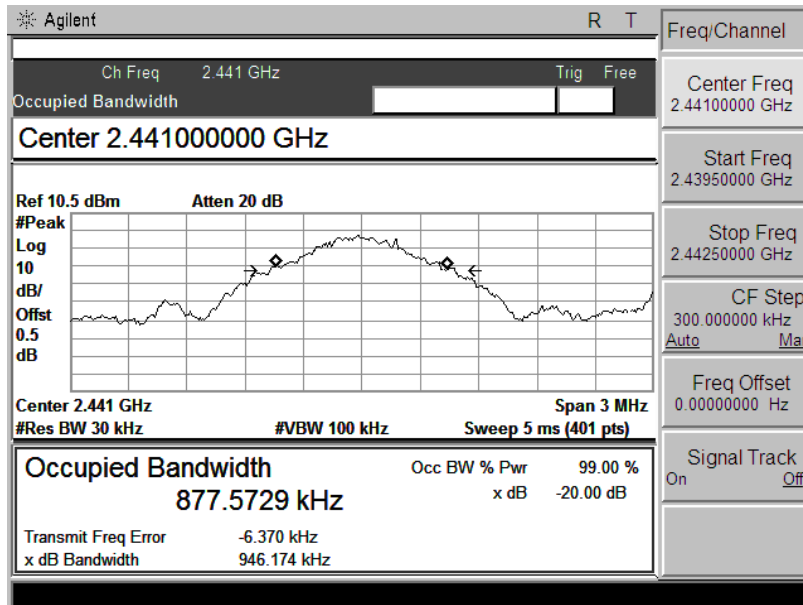
Test Item:	20dB Emission Bandwidth	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

Mode	Channel	Frequency (MHz)	20dB Bandwidth(MHz)
BDR (GFSK)	Low	2402	0.963
	Middle	2441	0.946
	High	2480	0.939
EDR ($\pi/4$ -DQPSK)	Low	2402	1.265
	Middle	2441	1.258
	High	2480	1.299
EDR (8DPSK)	Low	2402	1.281
	Middle	2441	1.310
	High	2480	1.281

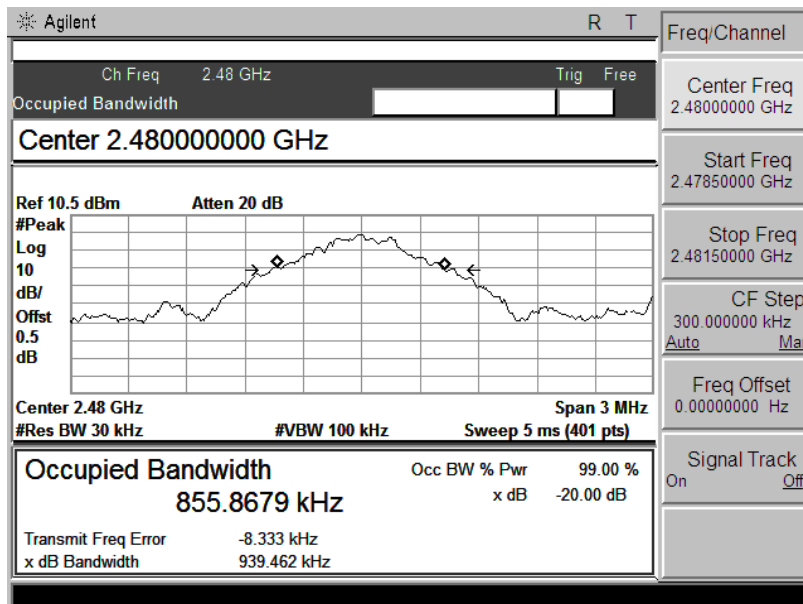
GFSK Mode



Ch 0

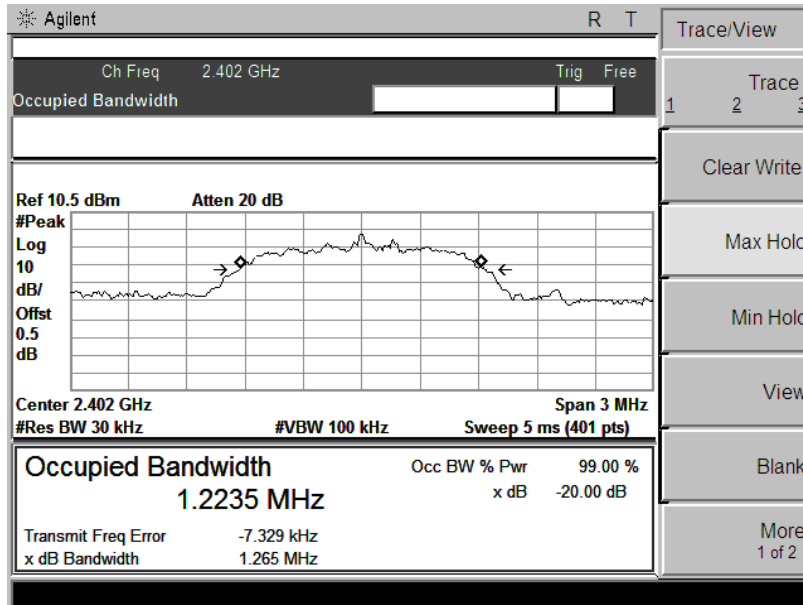


Ch 39

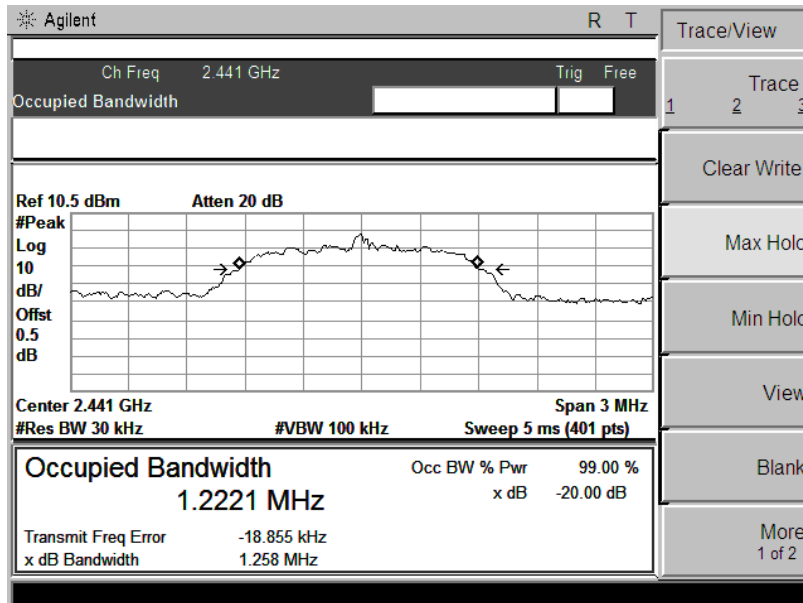


Ch 78

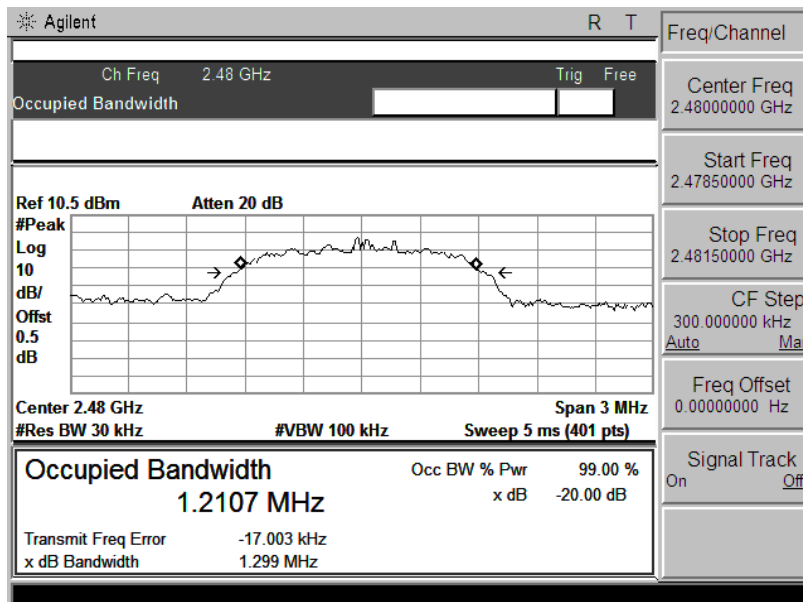
$\pi/4$ -DQPSK Mode



Ch 0

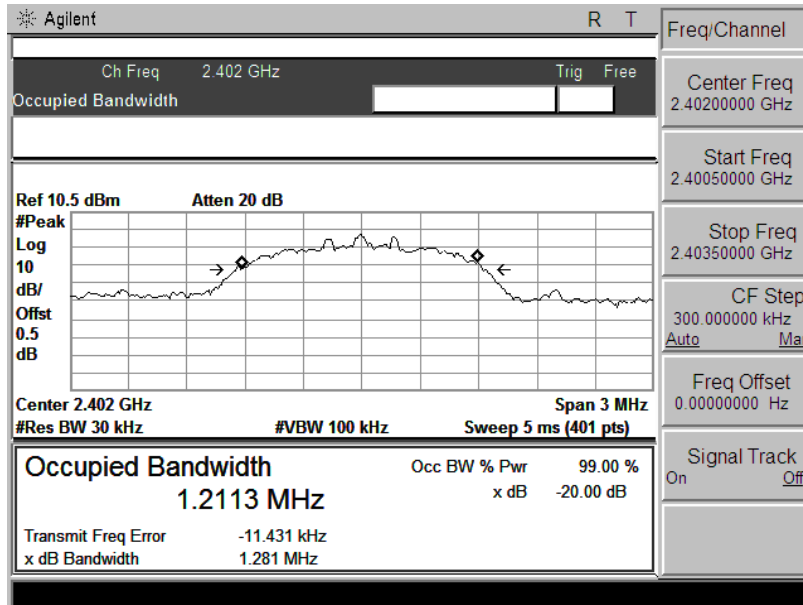


Ch 39

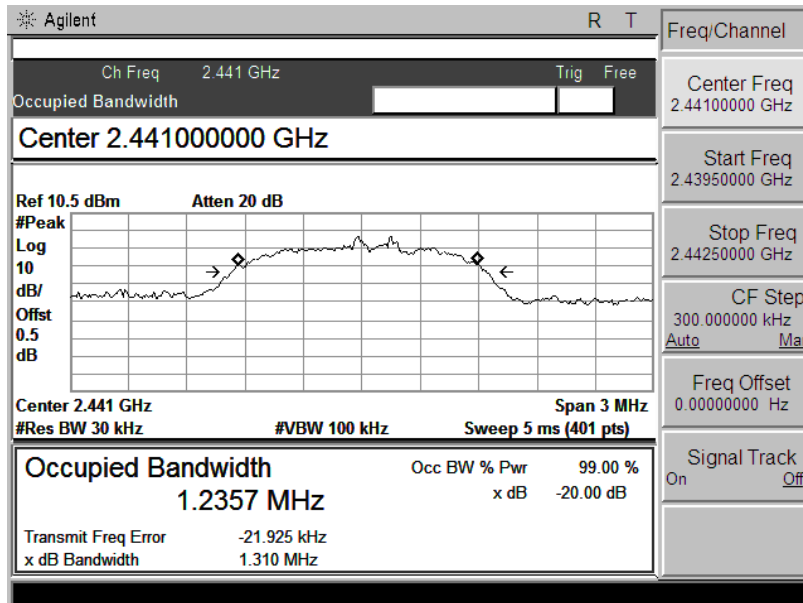


Ch 78

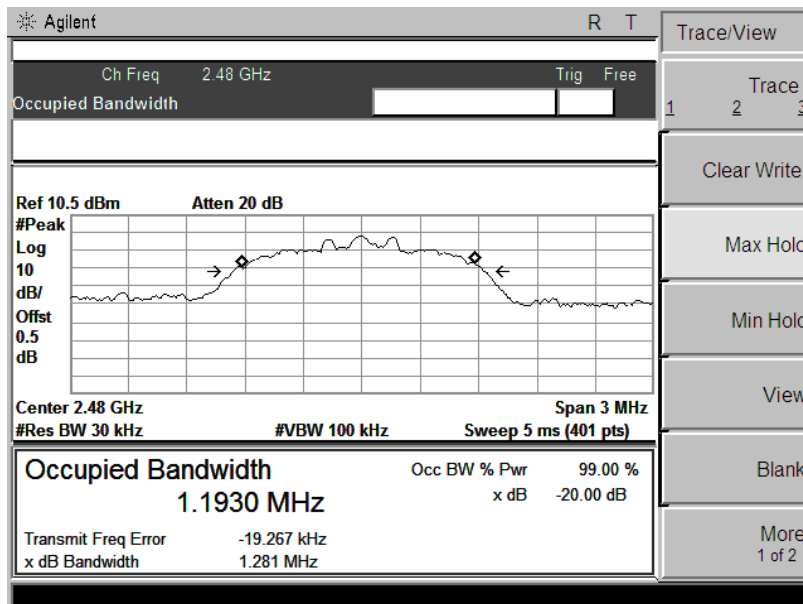
8DPSK Mode



Ch 0



Ch 39



5.7 Carrier Frequency Separation

5.7.1 Test Requirement

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.50 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

5.7.2 Test Procedure

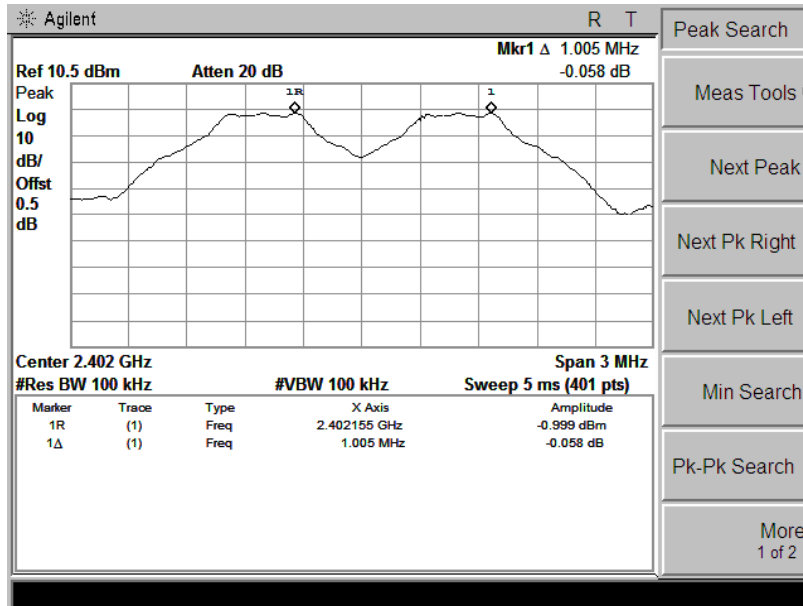
1. Set the EUT in transmitting mode, spectrum Bandwidth was set at 30 kHz, maxhold the channel.
2. Set the adjacent channel of the EUT maxhold another trace
3. Measure the channel separation.

5.7.3 Test Result

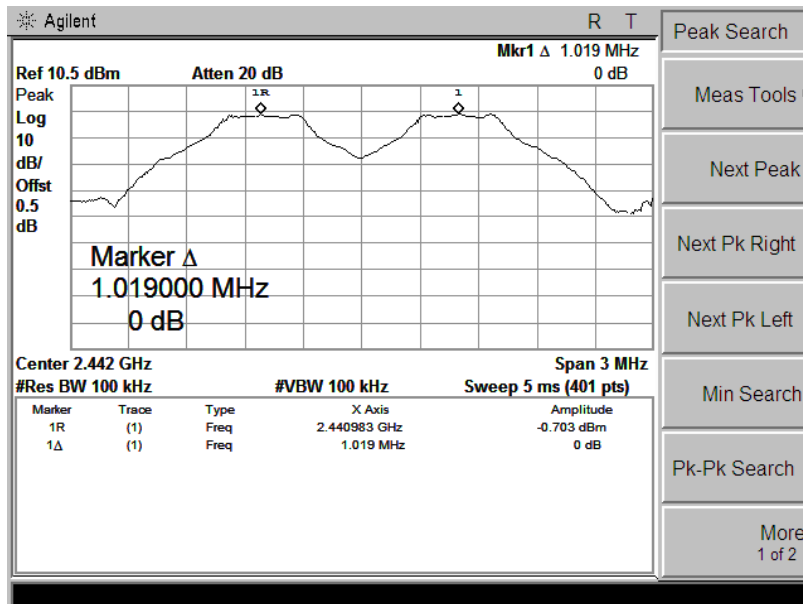
Test Item:	Carrier Frequency Separation	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
BDR (GFSK)	Low	2402	1.005	0.642	Pass
	Middle	2441	1.019	0.631	Pass
	High	2480	1.005	0.626	Pass
EDR ($\pi/4$ -DQPSK)	Low	2402	1.013	0.843	Pass
	Middle	2441	1.005	0.839	Pass
	High	2480	1.020	0.866	Pass
EDR (8DPSK)	Low	2402	1.013	0.854	Pass
	Middle	2441	0.998	0.873	Pass
	High	2480	1.013	0.854	Pass

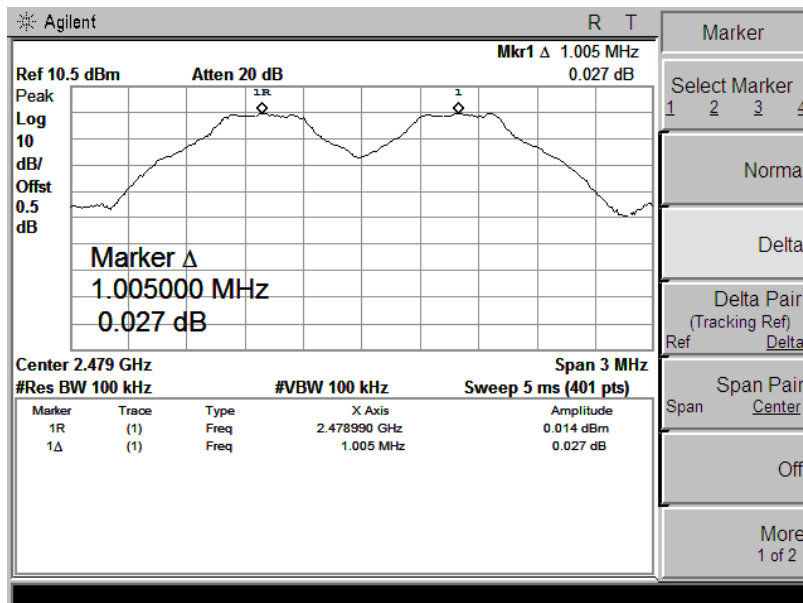
GFSK Mode



Ch 0

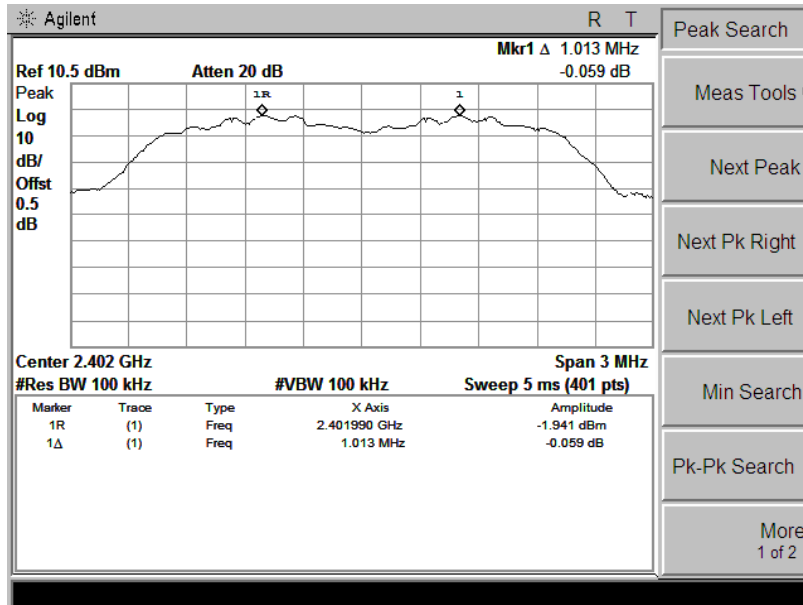


Ch 39

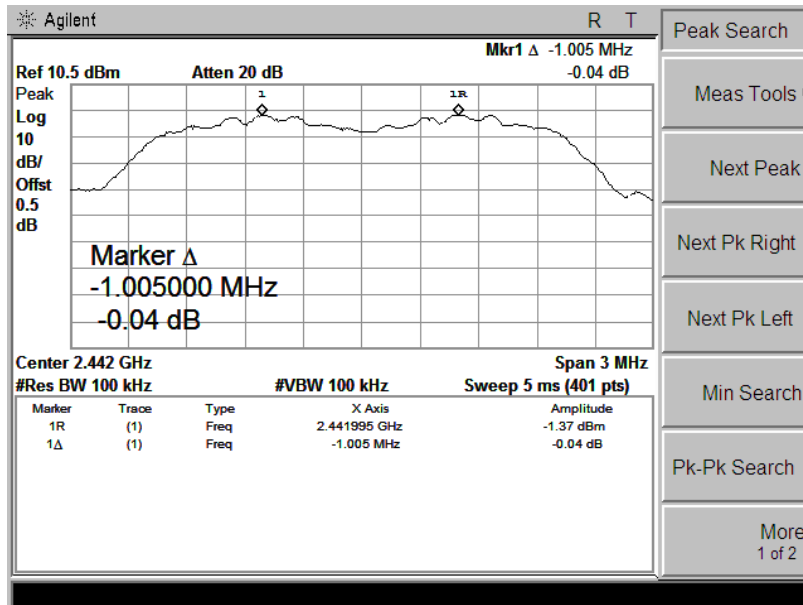


Ch 78

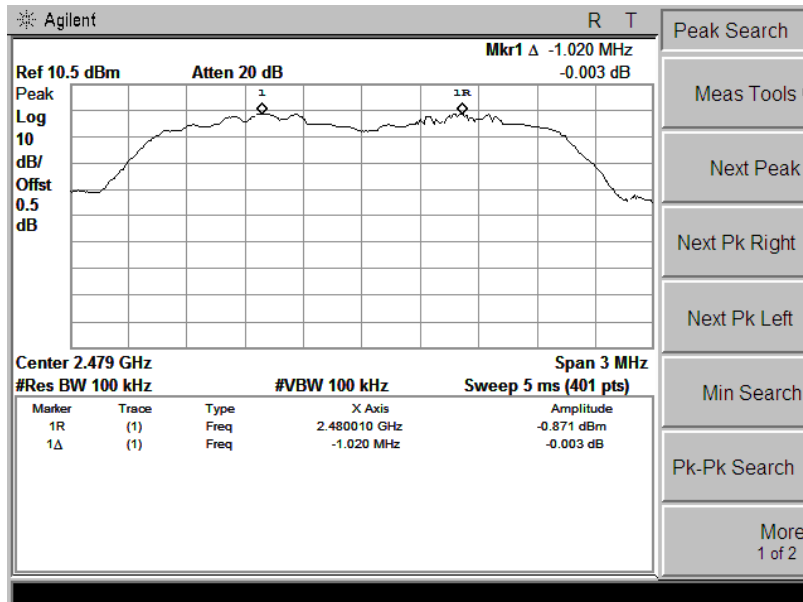
$\pi/4$ -DQPSK Mode



Ch 0

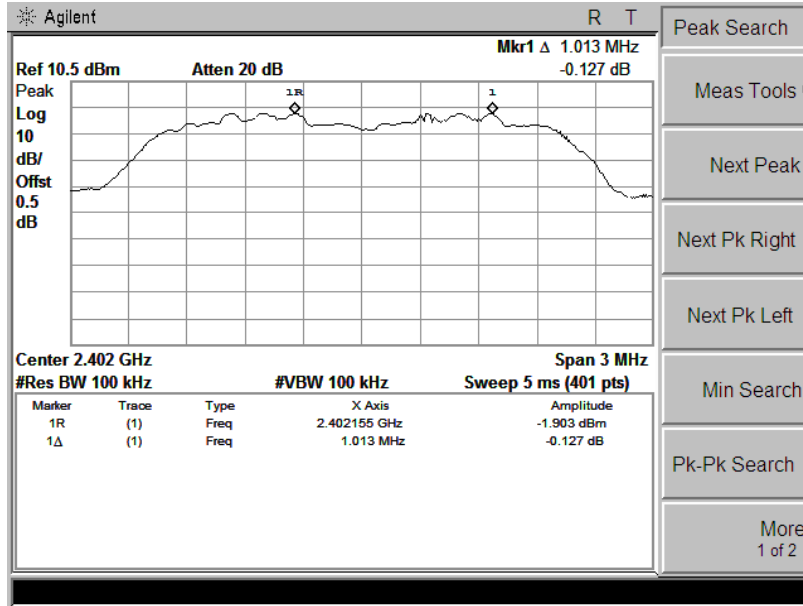


Ch 39

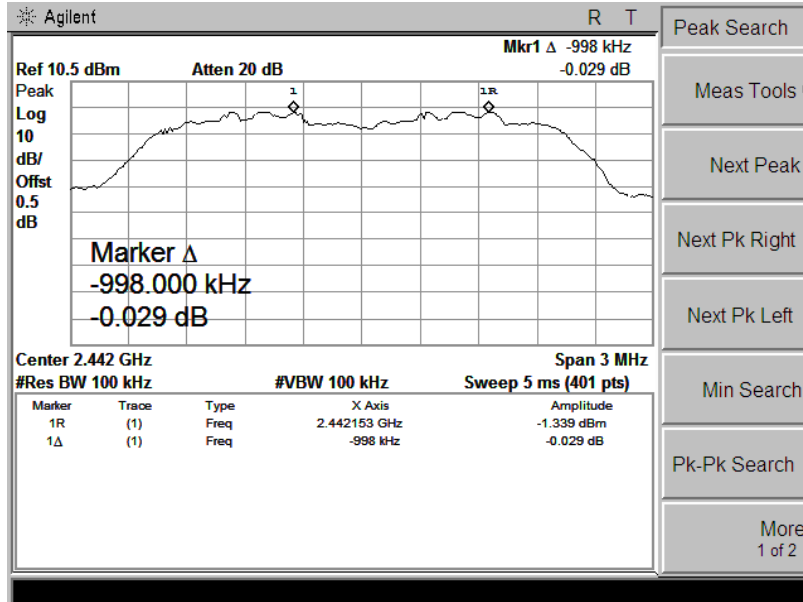


Ch 78

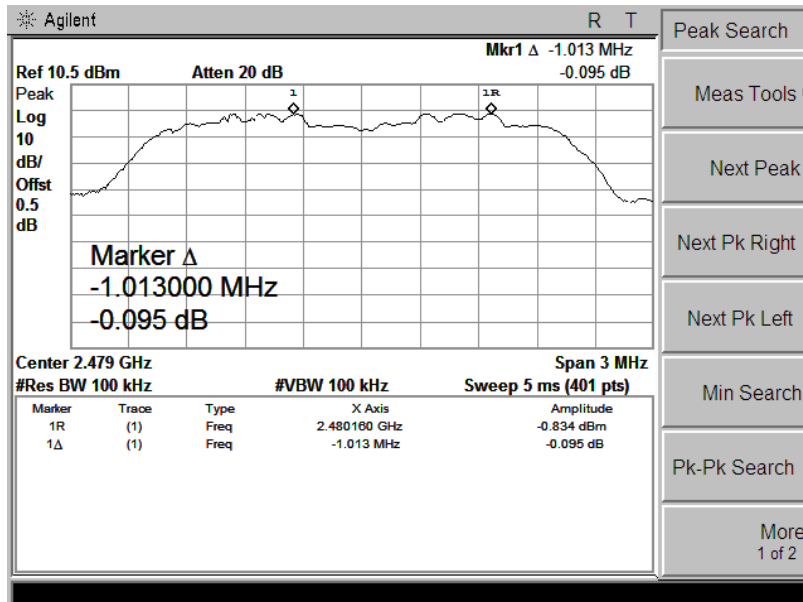
8DPSK Mode



Ch 0



Ch 39



Ch 78

5.8 Number of Hopping Channel

5.8.1 Test Requirement

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

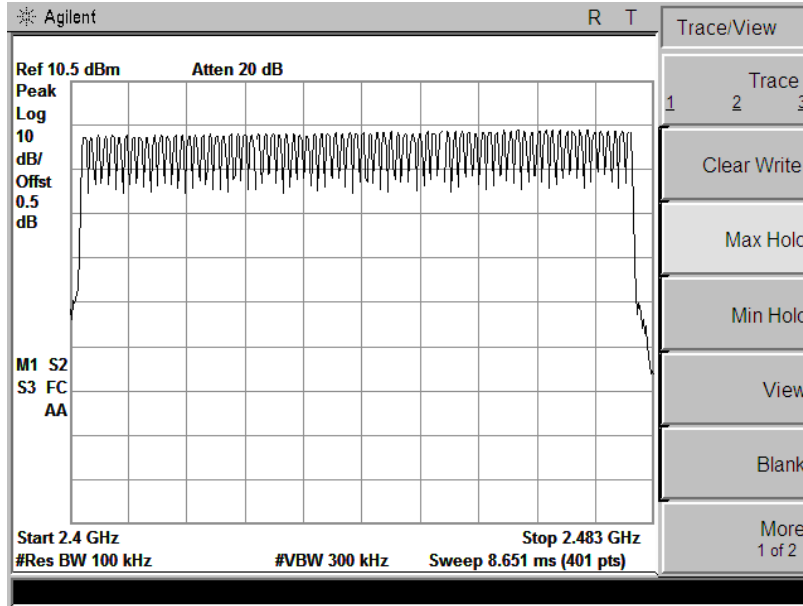
5.8.2 Test Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the Max-Hold function record the Quantity of the channel.

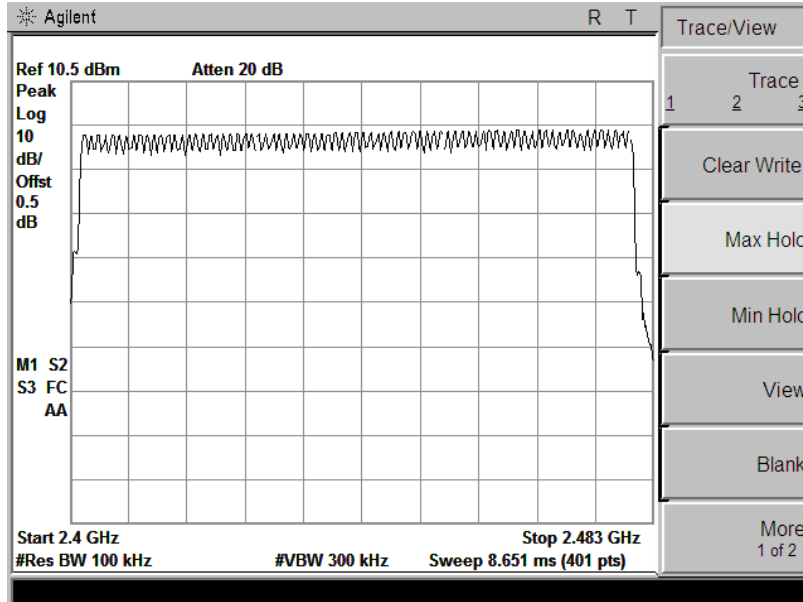
5.8.3 Test Result

Test Item:	Number of Hopping Channel	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

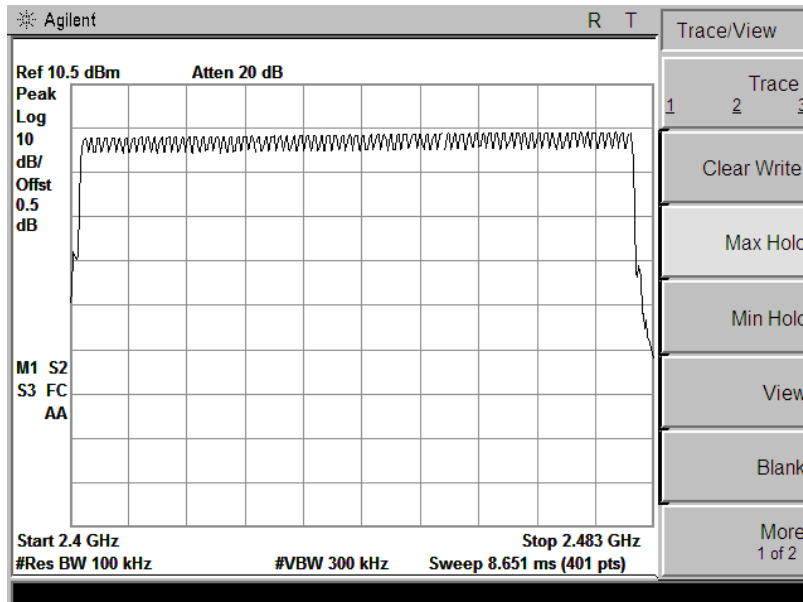
Mode	Frequency Range (MHz)	Number of Hopping Channel	Limit
GFSK	2400-2483.5	79	≥15
$\pi/4$ -DQPSK	2400-2483.5	79	≥15
8DPSK	2400-2483.5	79	≥15



GFSK Mode



$\pi/4$ -DQPSK



8DPSK Mode

5.9 Dwell Time

5.9.1 Test Requirement

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.9.2 Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 * channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Dwell Time= time slot length * hope rate/ number of hopping channels * 31.6s Hop rate=1600/s

5.9.3 Test Result

Test Item:	Dwell Time	Temperature :	25°C
Test Engineer:	Henry	Relative Humidity :	65%

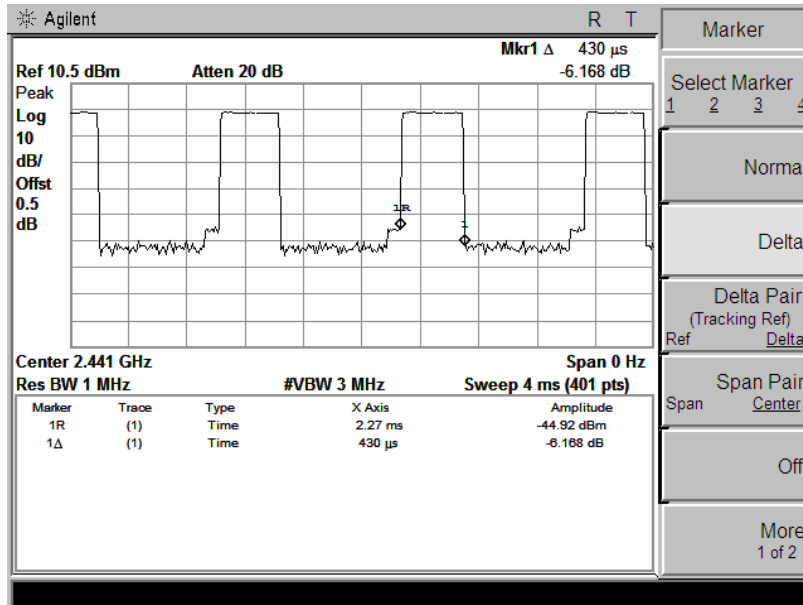
Mode	Packet	Pulse Time (ms)	Dwell Time(ms)	Limit(ms)	Result
GFSK	DH1	0.43	137.6	400	Pass
	DH3	1.70	272.0	400	Pass
	DH5	2.94	313.6	400	Pass
π /4DQPSK	2DH1	0.45	144.0	400	Pass
	2DH3	1.70	272.0	400	Pass
	2DH5	2.95	314.8	400	Pass
8DPSK	3DH1	0.45	144.0	400	Pass
	3DH3	1.70	272.0	400	Pass
	3DH5	2.95	314.8	400	Pass

Note: DH1/2DH1/3DH1: Dwell Time=Pulse Time(ms) \times [(1600/2/79) \times 31.6]

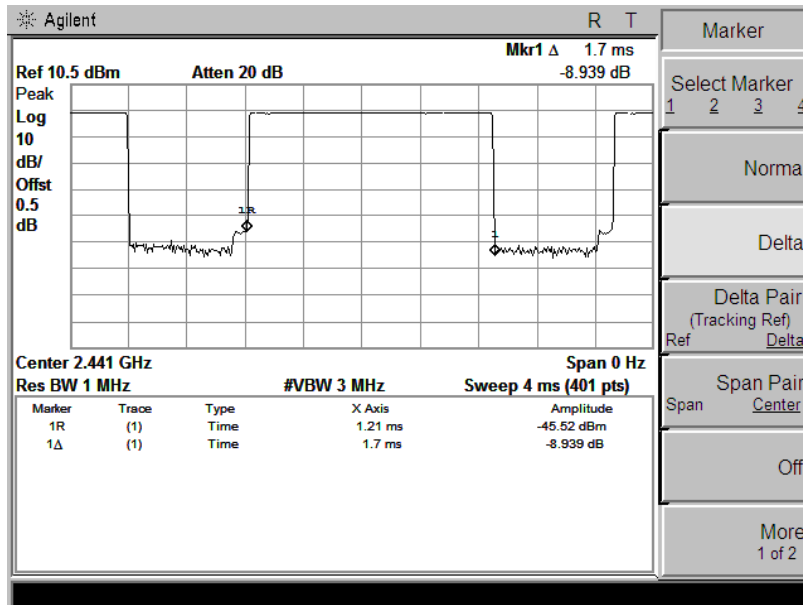
DH3/2DH3/3DH3: Dwell Time= Pulse Time(ms) \times [(1600/4/79) \times 31.6]

DH5/2DH5/3DH5: Dwell Time= Pulse Time(ms) \times [(1600/6/79) \times 31.6]

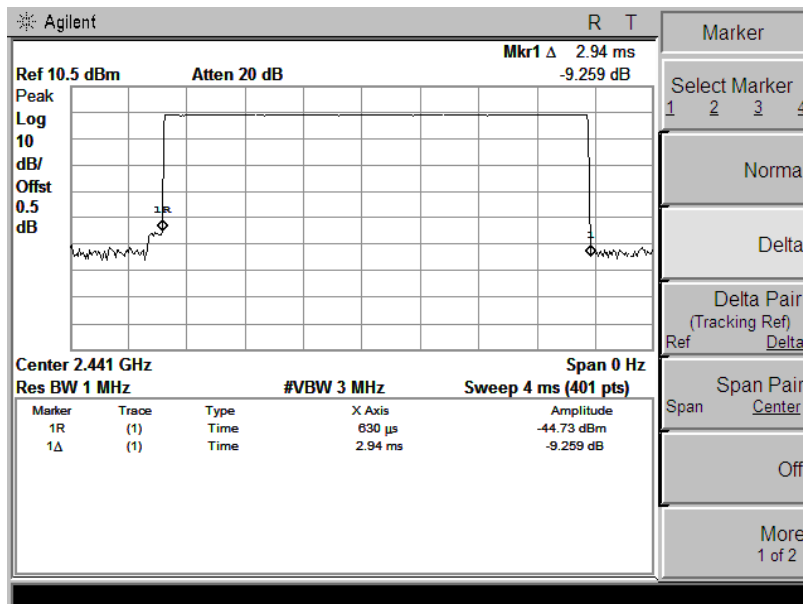
GFSK Mode



DH1

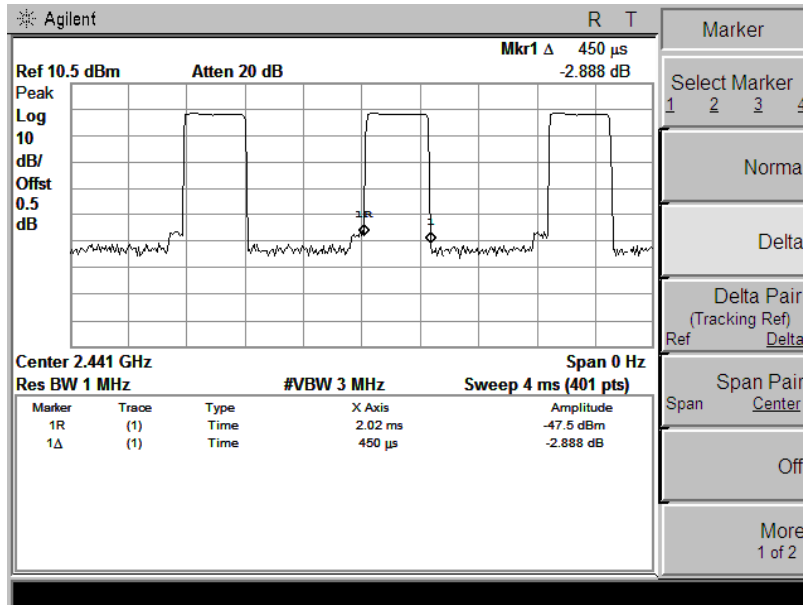


DH3

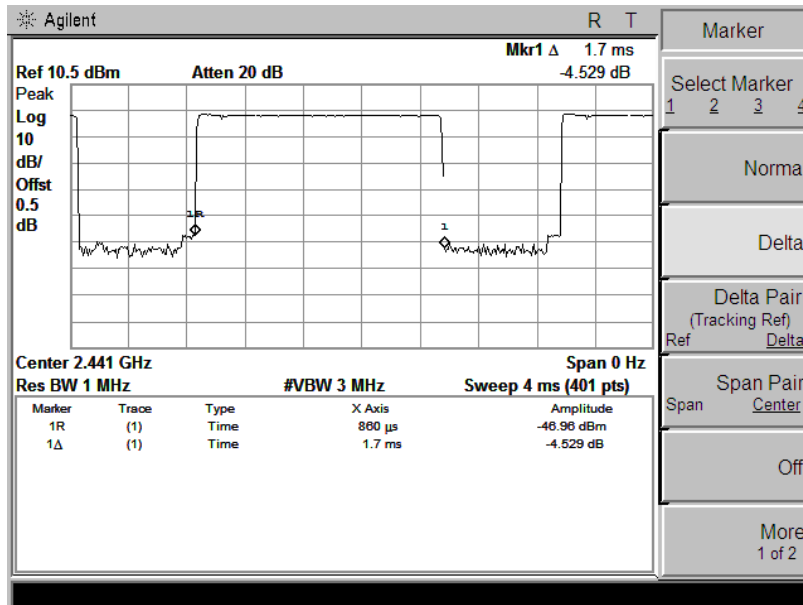


DH5

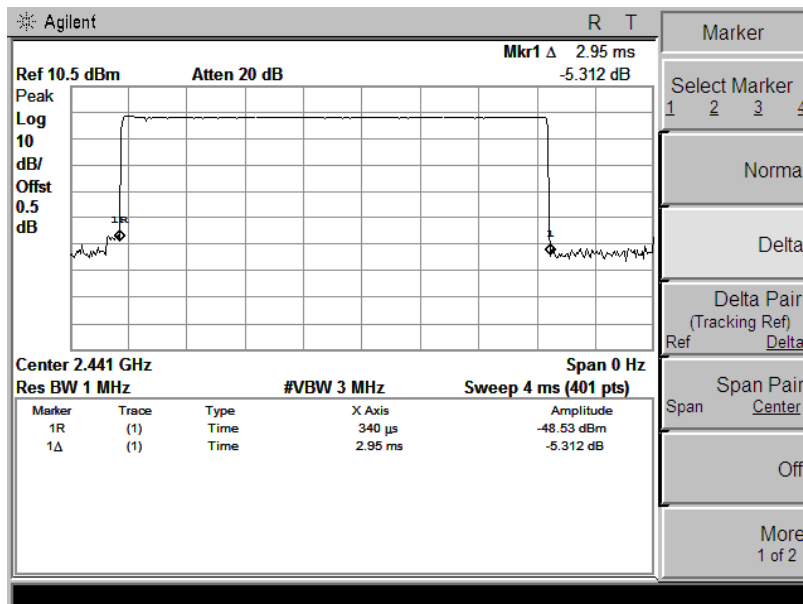
$\pi/4$ -DQPSK Mode



DH1

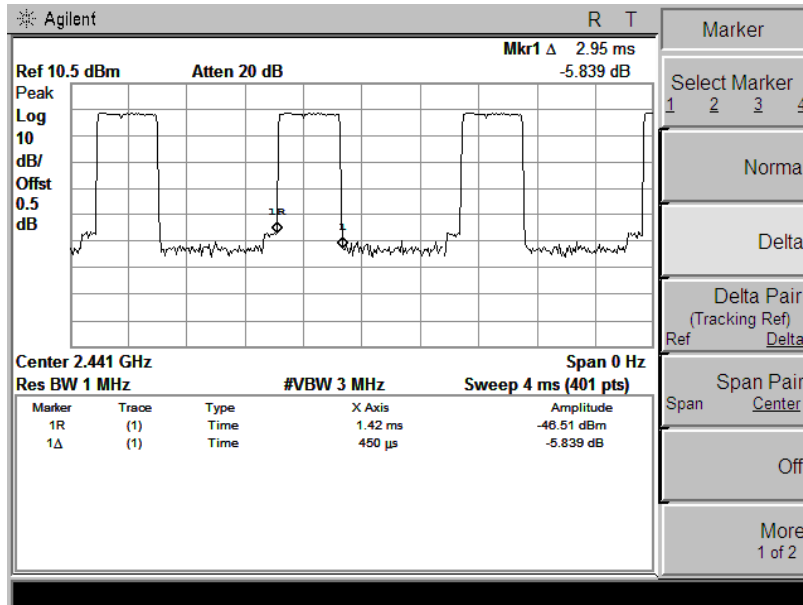


DH3

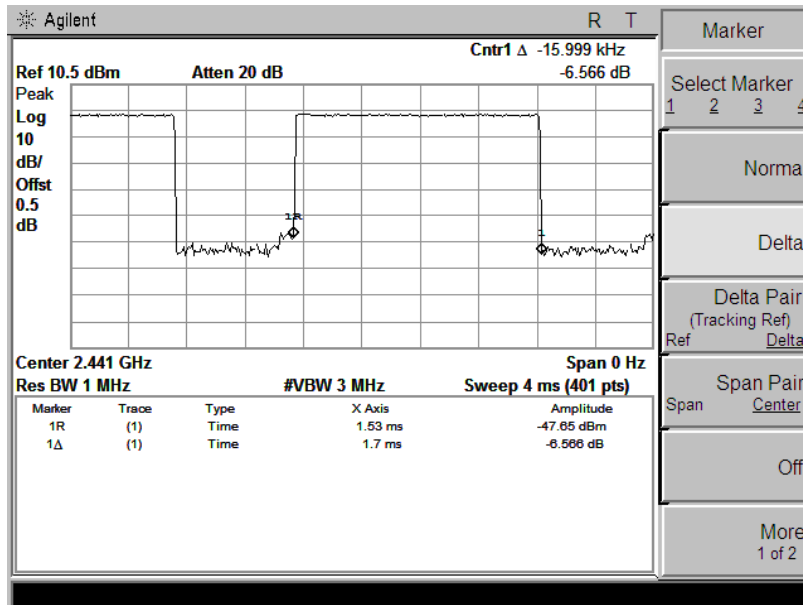


DH5

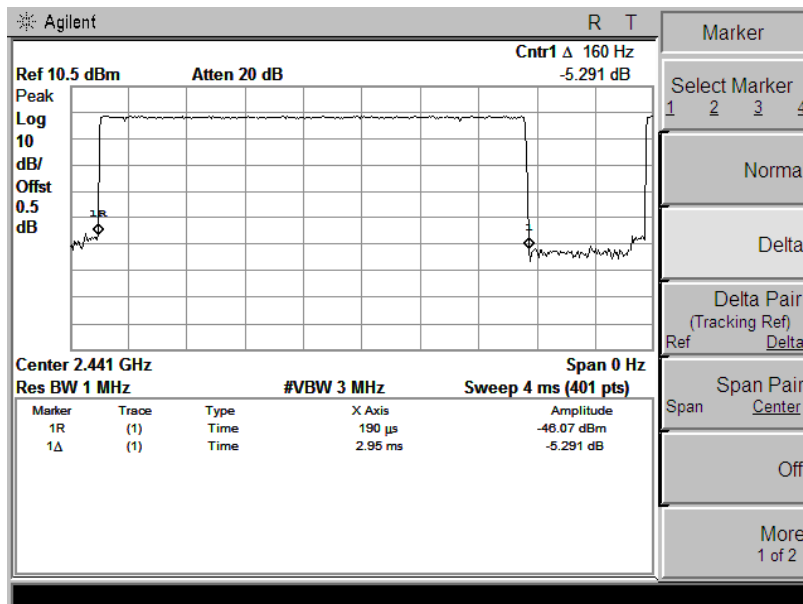
8DPSK Mode



DH1



DH3



DH5

5.9 Band Edge and Conducted Spurious Emissions

5.9.1 Test Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

5.9.2 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

5.9.3 Test Result

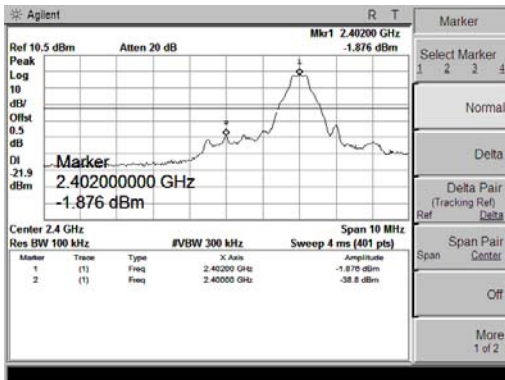
Pass

Remark:

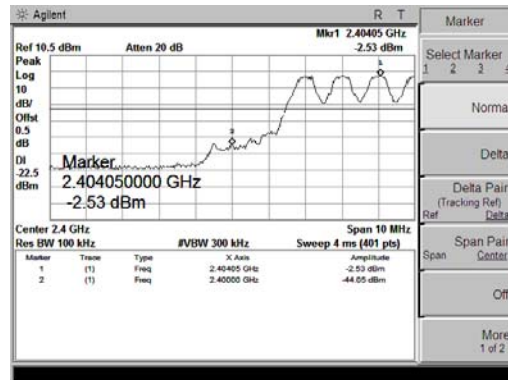
During the Conducted Spurious Emissions test, pre-scan the GFSK, $\pi/4$ -QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.

Test Item:	Band Edge	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%

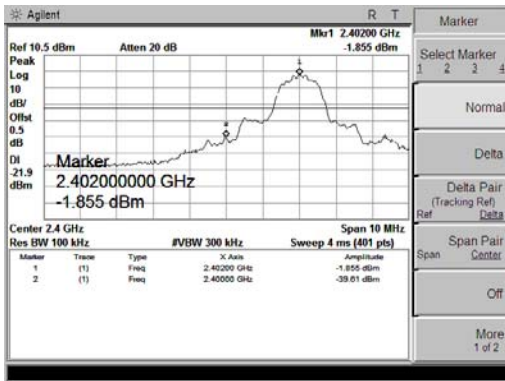
Band Edge, Left Side



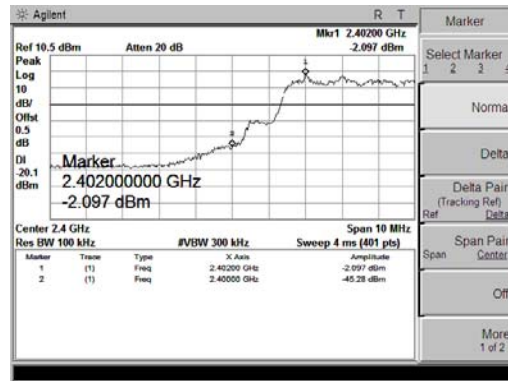
GFSK Mode, Non-Hopping



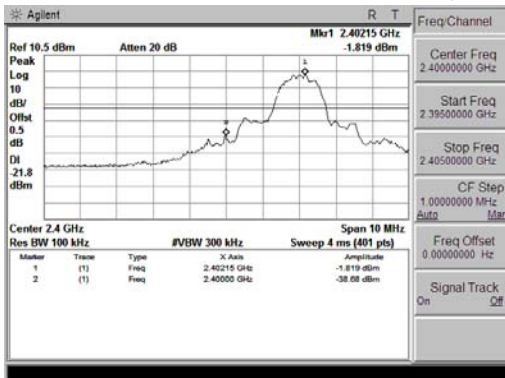
GFSK Mode, Hopping



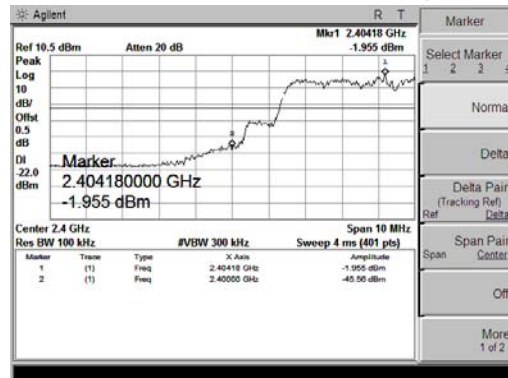
$\pi/4$ -DQPSK Mode, Non-Hopping



$\pi/4$ -DQPSK Mode, Hopping

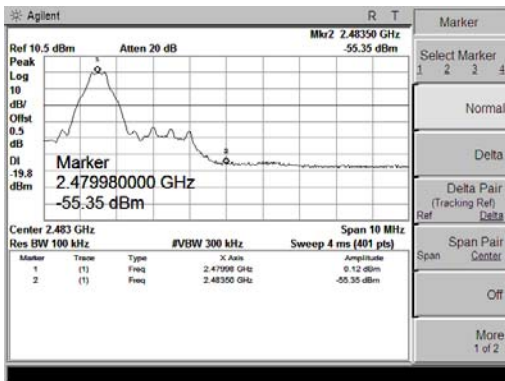


8DPSK Mode, Non-Hopping

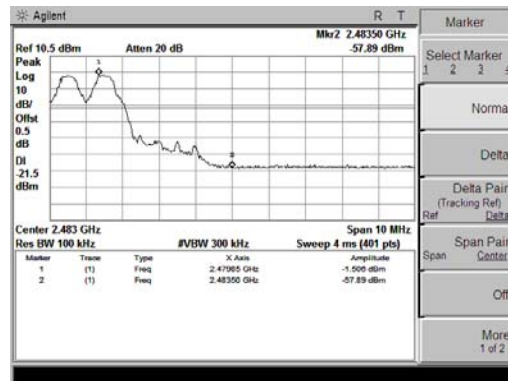


8DPSK Mode, Hopping

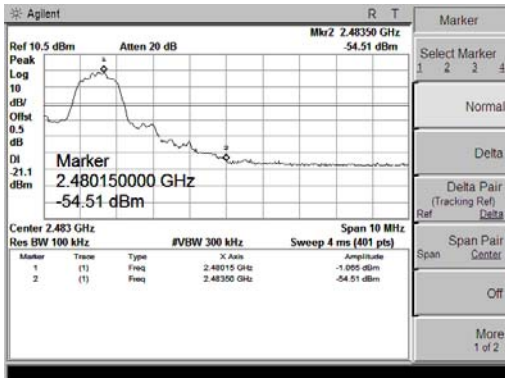
Band Edge, Right Side



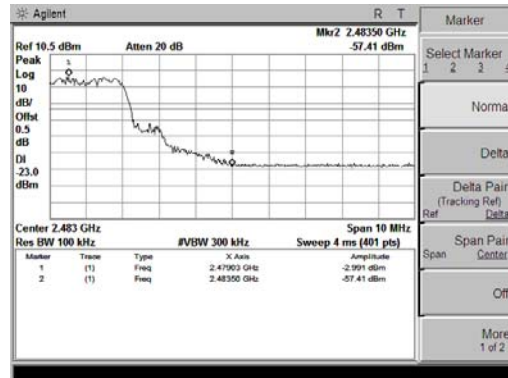
GFSK Mode, Non-Hopping



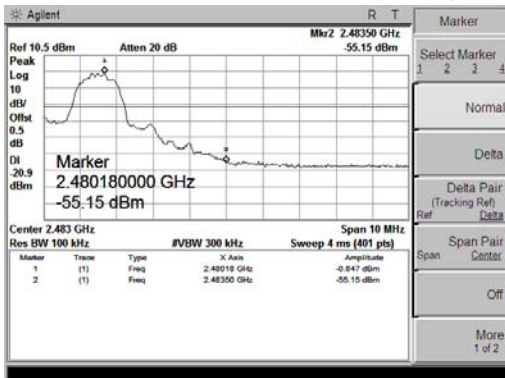
GFSK Mode, Hopping



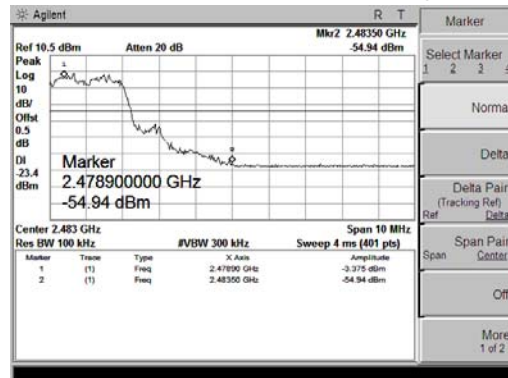
$\pi/4$ -DQPSK Mode, Non-Hopping



$\pi/4$ -DQPSK Mode, Hopping

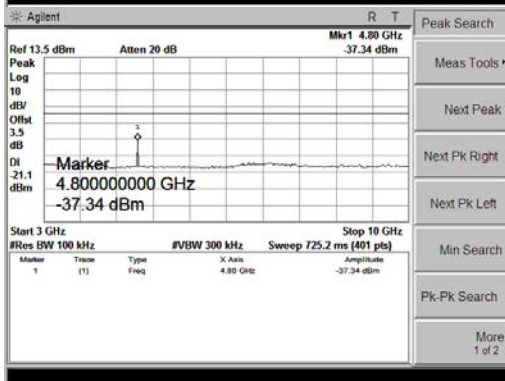
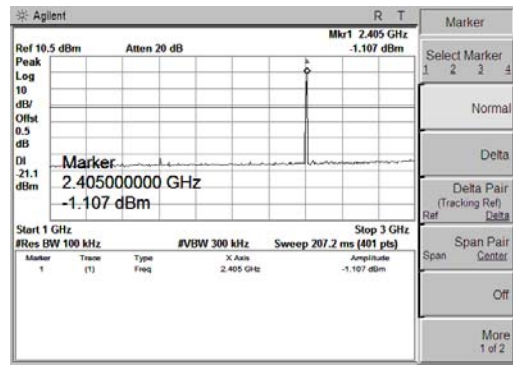
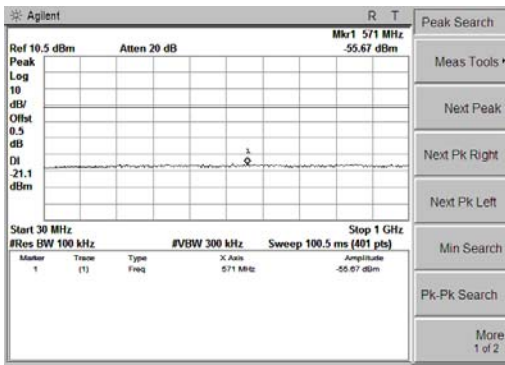


8DPSK Mode, Non-Hopping

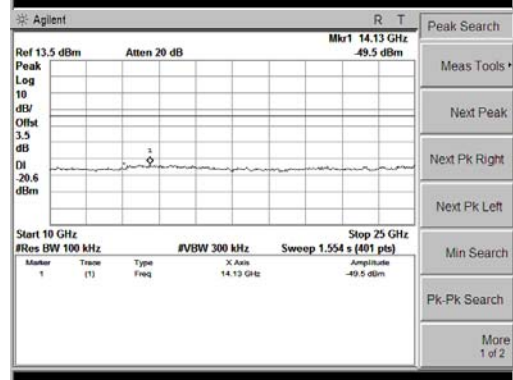
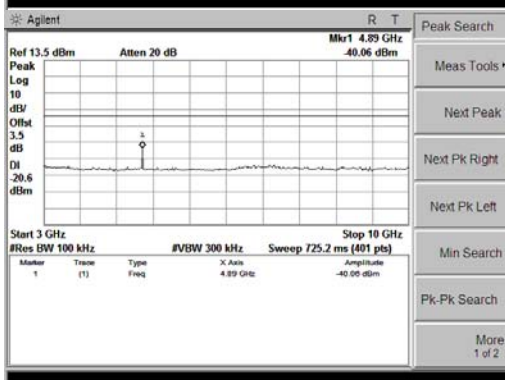
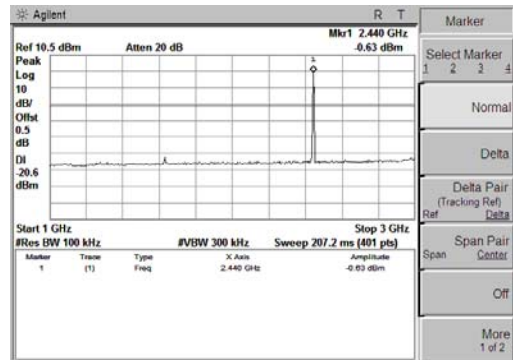
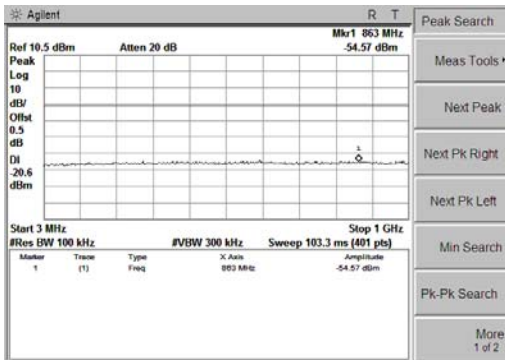


8DPSK Mode, Hopping

Conducted Spurious Emissions

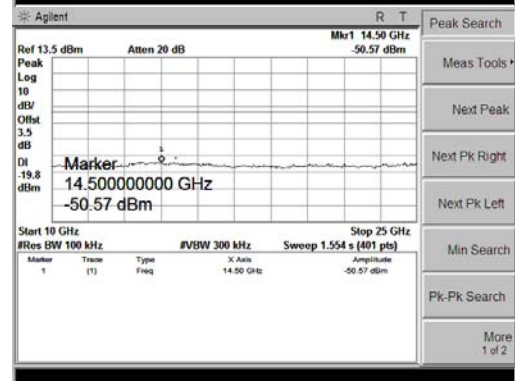
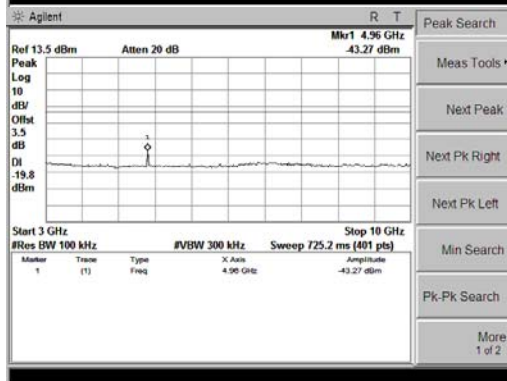
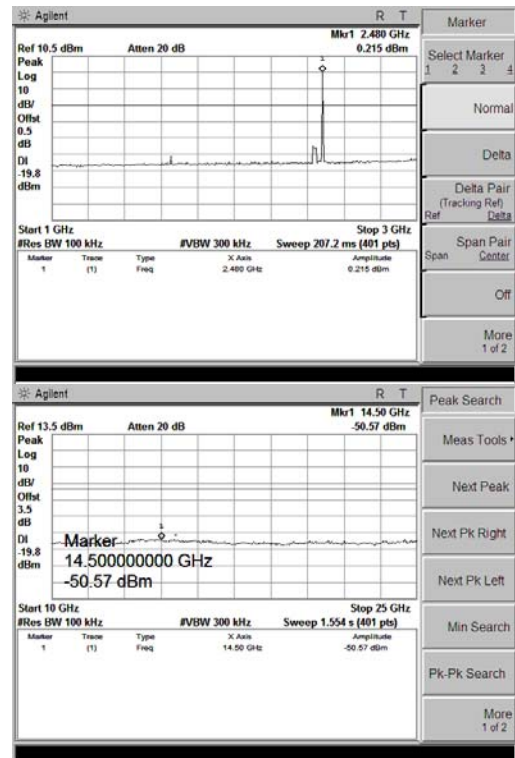
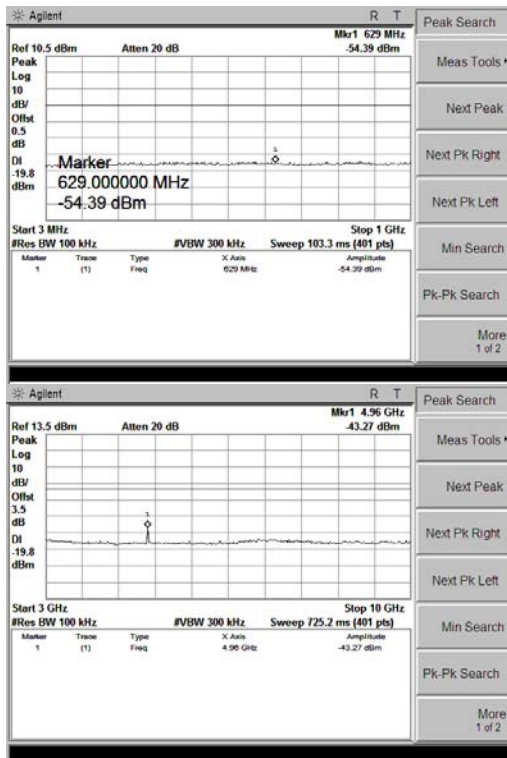


GFSK Mode, Ch0



GFSK Mode, Ch39

Conducted Spurious Emissions



GFSK Mode, Ch78

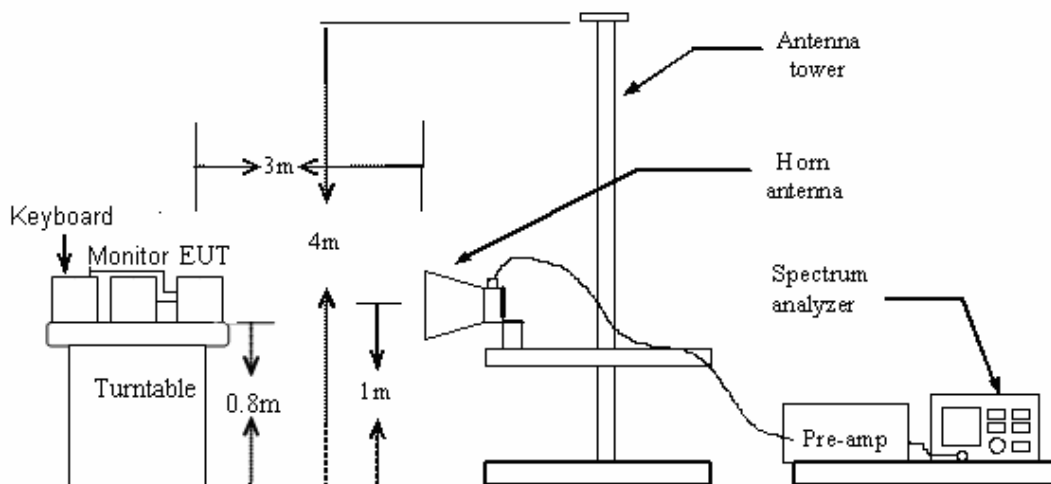
5.10 Restricted Frequency Bands

5.10.1 Test Requirement

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.10.2 Test Configuration

Test Setup:



5.10.3 Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.

5.10.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following plots.

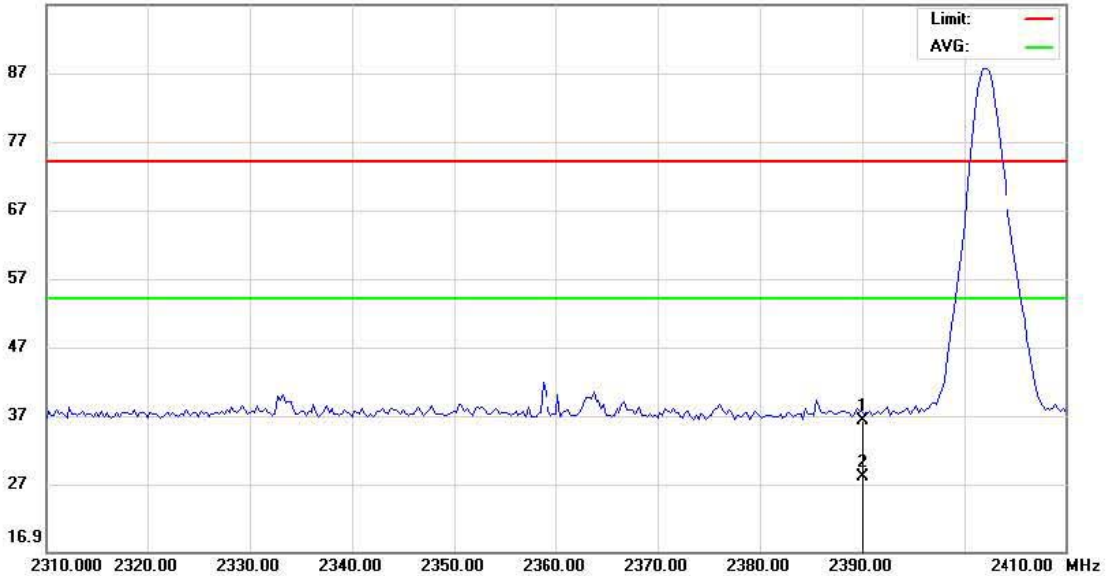


Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: BRV-XXL Data: #5 Date: 2015-11-9 Time: 14:01:53

96.9 dBuV/m



Site site #1 Polarization: **Vertical** Temperature: 24
 Limit: FCC RF LIMIT PEAK Power: DC 11.1V by Battery Humidity: 50.5 %
 EUT: Brsven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH0
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2390.000	44.73	-8.43	36.30	74.00	-37.70	peak		
2	*	2390.000	36.51	-8.43	28.08	54.00	-25.92	AVG		

*:Maximum data x:Over limit l:over margin

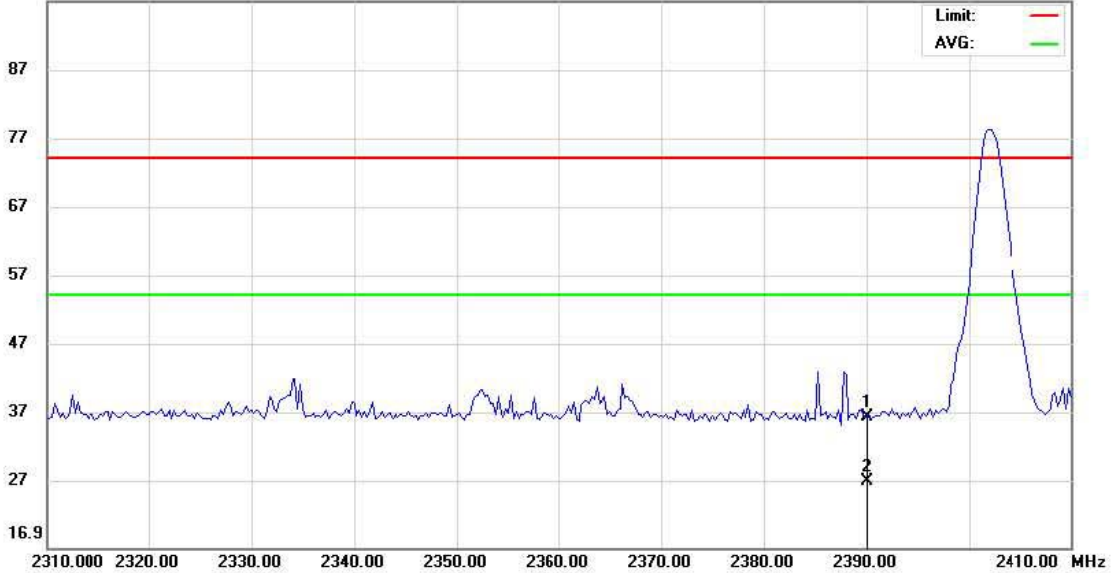
Engineer Signature: Deft



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: BRV-XXL Data: #6 Date: 2015-11-9 Time: 14:25:08



Site site #1 Polarization: **Horizontal** Temperature: 24
 Limit: FCC RF LIMIT PEAK Power: DC 11.1V by Battery Humidity: 50.5 %
 EUT: Brsven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH0
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2390.000	44.71	-8.43	36.28	74.00	-37.72	peak		
2	*	2390.000	35.23	-8.43	26.80	54.00	-27.20	AVG		

*:Maximum data x:Over limit l:over margin

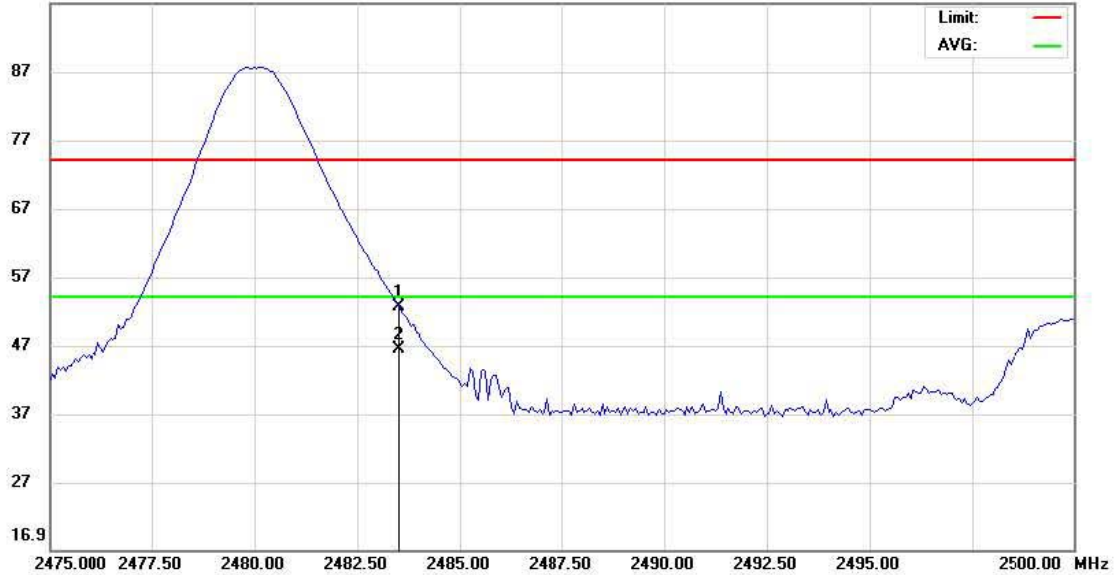
Engineer Signature: Deft



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: BRV-XXL Data: #7 Date: 2015-11-9 Time: 14:33:26
 96.9 dBuV/m



Site site #1 Polarization: **Vertical** Temperature: 24
 Limit: FCC RF LIMIT PEAK Power: DC 11.1V by Battery Humidity: 50.5 %
 EUT: Brsven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH78
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2483.500	60.80	-8.29	52.51	74.00	-21.49	peak		
2	*	2483.500	54.79	-8.29	46.50	54.00	-7.50	AVG		

*:Maximum data x:Over limit l:over margin

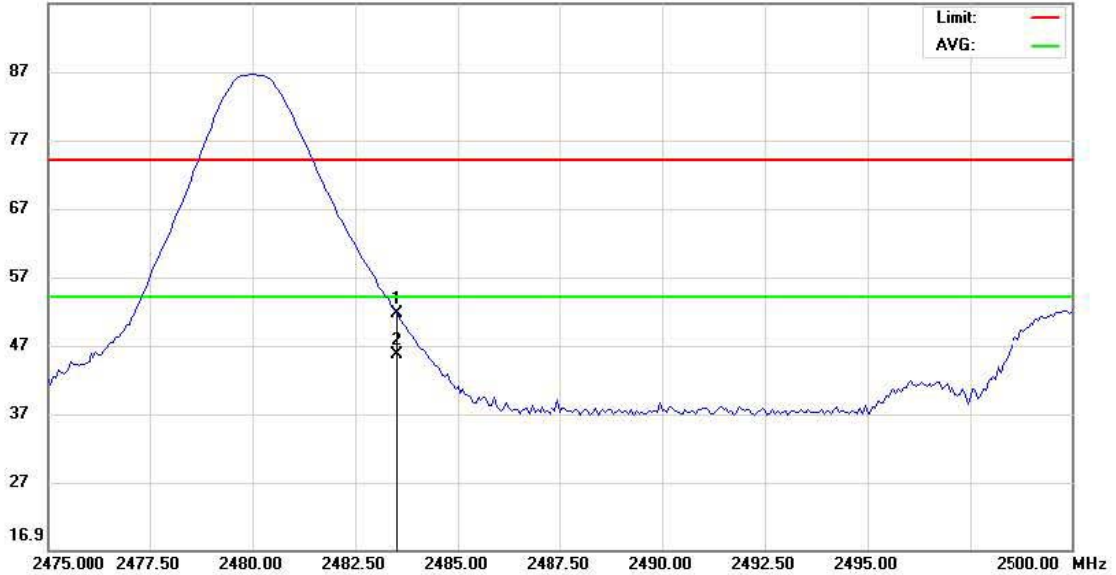
Engineer Signature: Deft



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: BRV-XXL Data: #8 Date: 2015-11-9 Time: 14:42:00
 96.9 dBuV/m



Site site #1 Polarization: **Horizontal** Temperature: 24
 Limit: FCC RF LIMIT PEAK Power: DC 11.1V by Battery Humidity: 50.5 %
 EUT: Brsven BRV-XXL Speaker Distance: 3m
 M/N: BRV-XXL
 Mode: GFSK-CH78
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	59.99	-8.29	51.70	74.00	-22.30	peak		
2	*	2483.500	53.90	-8.29	45.61	54.00	-8.39	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: Deft

End of Report