

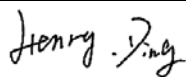

FCC PART 15.247  
MEASUREMENT AND TEST REPORT

For

**Verykool USA Inc**

4350 Executive Dr. #100, San Diego, CA 92121, United States

**FCC ID: WA6I605**

<b>Report Type:</b> Original Report	<b>Product Type:</b> GSM Mobile Phone
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Report Number: RSZ120104002-00B	
Report Date: 2012-02-22	
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\* This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

## **TABLE OF CONTENTS**

<b>GENERAL INFORMATION.....</b>	<b>4</b>
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....	4
OBJECTIVE .....	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY .....	5
TEST FACILITY .....	5
<b>SYSTEM TEST CONFIGURATION.....</b>	<b>6</b>
DESCRIPTION OF TEST CONFIGURATION .....	6
EUT EXERCISE SOFTWARE .....	6
EQUIPMENT MODIFICATIONS .....	6
SUPPORT EQUIPMENT LIST AND DETAILS .....	6
EXTERNAL I/O CABLE.....	6
BLOCK DIAGRAM OF TEST SETUP .....	7
<b>SUMMARY OF TEST RESULTS .....</b>	<b>8</b>
<b>FCC §15.247 (I) AND §2.1093 – RF EXPOSURE .....</b>	<b>9</b>
APPLICABLE STANDARD .....	9
<b>FCC §15.203 - ANTENNA REQUIREMENT.....</b>	<b>11</b>
APPLICABLE STANDARD .....	11
ANTENNA CONNECTOR CONSTRUCTION .....	11
<b>FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS .....</b>	<b>12</b>
APPLICABLE STANDARD .....	12
MEASUREMENT UNCERTAINTY.....	12
EUT SETUP.....	12
EMI TEST RECEIVER SETUP.....	13
TEST PROCEDURE .....	13
TEST EQUIPMENT LIST AND DETAILS.....	13
TEST RESULTS SUMMARY .....	13
TEST DATA .....	13
<b>FCC §15.209, §15.205 &amp; §15.247(d) - SPURIOUS EMISSIONS.....</b>	<b>16</b>
APPLICABLE STANDARD .....	16
MEASUREMENT UNCERTAINTY .....	16
EUT SETUP .....	16
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP .....	17
TEST PROCEDURE .....	17
TEST EQUIPMENT LIST AND DETAILS.....	17
CORRECTED AMPLITUDE & MARGIN CALCULATION .....	17
TEST RESULTS SUMMARY .....	18
TEST DATA .....	18
<b>FCC §15.247(a) (1) - CHANNEL SEPARATION TEST .....</b>	<b>20</b>
APPLICABLE STANDARD .....	20
TEST EQUIPMENT LIST AND DETAILS.....	20
TEST PROCEDURE .....	20
TEST DATA .....	20
<b>FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING .....</b>	<b>27</b>

APPLICABLE STANDARD .....	27
TEST PROCEDURE .....	27
TEST EQUIPMENT LIST AND DETAILS.....	27
TEST DATA .....	27
<b>FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST .....</b>	<b>34</b>
APPLICABLE STANDARD .....	34
TEST PROCEDURE .....	34
TEST EQUIPMENT LIST AND DETAILS.....	34
TEST DATA .....	34
<b>FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....</b>	<b>38</b>
APPLICABLE STANDARD .....	38
TEST PROCEDURE .....	38
TEST EQUIPMENT LIST AND DETAILS.....	38
TEST DATA .....	38
<b>FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT .....</b>	<b>54</b>
APPLICABLE STANDARD .....	54
TEST PROCEDURE .....	54
TEST EQUIPMENT LIST AND DETAILS.....	54
TEST DATA .....	54
<b>FCC §15.247(d) - BAND EDGES TESTING .....</b>	<b>61</b>
APPLICABLE STANDARD .....	61
TEST PROCEDURE .....	61
TEST EQUIPMENT LIST AND DETAILS.....	61
TEST DATA .....	62
<b>DECLARATION LETTER.....</b>	<b>66</b>

## GENERAL INFORMATION

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### Product Description for Equipment under Test (EUT)

The *Verykool USA INC.*'s product, model number: *I605 (FCC ID: WA6I605)* (the "EUT") in this report was a *GSM Mobile Phone*, which was measured approximately: 10.0 cm (L) x 5.5 cm (W) x 1.5 cm (H), rated input voltage: DC 3.7V Lithium battery or DC 5.0V from adapter for charging.

#### Adapter Information

Model: KTC-08USB-D

Input: AC100-240V 50/60 Hz 0.15A MAX

Output: DC5.0V 500mA

#### Frequency Range:

Cellular Band: 824-849 MHz (Tx), 869-894 MHz (Rx)

PCS Band: 1850-1910 MHz (Tx), 1930-1990 MHz (Rx)

Bluetooth: 2402-2480 MHz (Tx/ Rx)

Modulation Mode: GMSK (Cellular/PCS); GFSK,  $\pi/4$ -DQPSK, 8DPSK (Bluetooth)

#### Transmitter Output Power:

Cellular Band: 32.31 (Conducted output power)

PCS Band: 29.56dBm (Conducted output power)

Bluetooth: 4.82dBm (Conducted output power)

*Note : the series product, model I605 and I604 are electrically identical, only different in model number, and model I605 was selected for fully testing by BACL, which was explained in the attached declaration.*

*\* All measurement and test data in this report was gathered from production sample serial number: 1201002 (Assigned by BACL, Shenzhen). The EUT was received on 2012-01-04.*

### Objective

This report is prepared on behalf of *Verykool USA INC.* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine the compliance of EUT with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

### Related Submittal(s)/Grant(s)

FCC Part 22H&24E PCE and Part 15B JBP submissions with FCC ID: WA6I605.

## Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

The uncertainty of any RF tests which use conducted method measurement is  $\pm 0.96$  dB, the uncertainty of any radiation on emissions measurement is  $\pm 4.0$  dB

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp.(Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in a testing mode which was controlled by the equipment bluetooth tester.

### EUT Exercise Software

No exercise software.

### Equipment Modifications

No modification was made to the EUT tested.

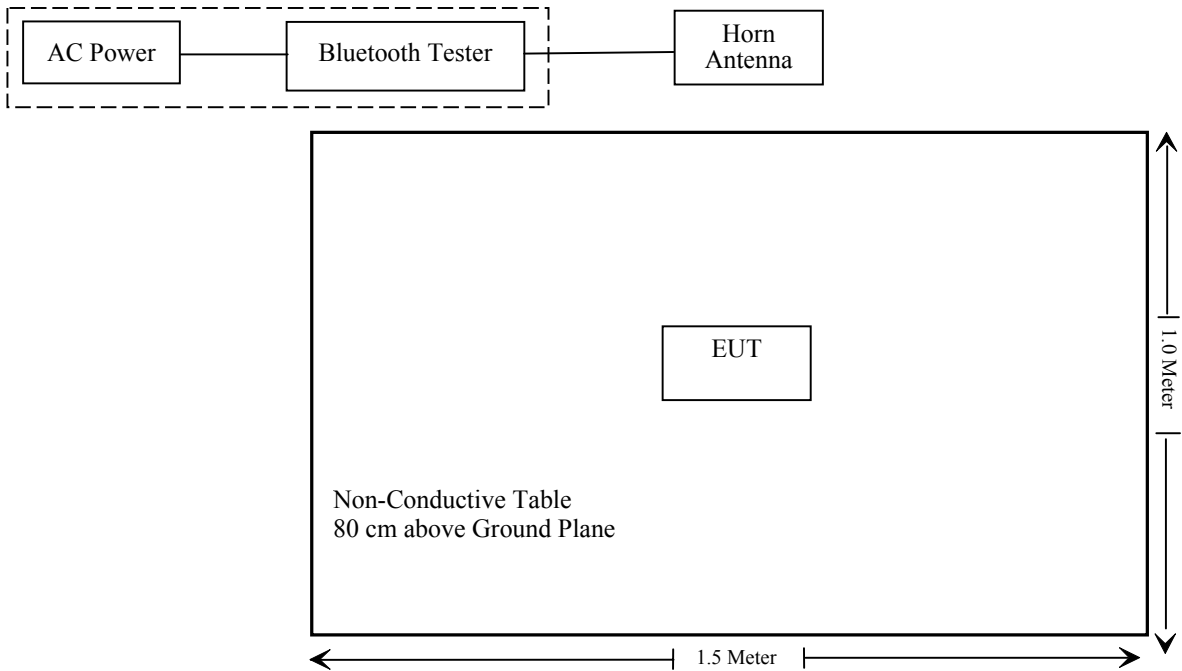
### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
TESCOM	Bluetooth Tester	TC-3000B	3000B650083

### External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Detachable DC Power Cable	1.0	EUT	LISN

Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Emissions	Compliance
§15.247 (a)(1)	20 dB Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	Peak Output Power Measurement	Compliance
§15.247(d)	Band Edges	Compliance



## FCC §15.247 (I) AND §2.1093 – RF EXPOSURE

### Applicable Standard

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

**Table 2 – Summary of SAR Evaluation Requirements for a Cell Phone with Multiple Transmitters**

	Individual Transmitter	Simultaneous Transmission
Licensed Transmitters	<u>Routine evaluation required</u>	<b>SAR not required:</b> <u>Unlicensed only</u> <ul style="list-style-type: none"> <li>when stand-alone 1-g SAR is not required and antenna is <math>\geq 5</math> cm from other antennas</li> </ul> <b>Licensed &amp; Unlicensed</b> <ul style="list-style-type: none"> <li>when the sum of the 1-g SAR is <math>&lt; 1.6</math> W/kg for all simultaneous transmitting antennas</li> <li>when SAR to peak location separation ratio of simultaneous transmitting antenna pair is <math>&lt; 0.3</math></li> </ul> <b>SAR required:</b> <u>Licensed &amp; Unlicensed</u> antenna pairs with SAR to peak location separation ratio $\geq 0.3$ ; test is only required for the configuration that results in the highest SAR in stand-alone configuration for each wireless mode and exposure condition <b>Note: simultaneous transmission exposure conditions for head and body can be different for different style phones; therefore, different test requirements may apply</b>
Unlicensed Transmitters	<p><b>When there is no simultaneous transmission –</b></p> <ul style="list-style-type: none"> <li>output <math>\leq 60</math> f: SAR not required</li> <li>output <math>&gt; 60</math> f: stand-alone SAR required</li> </ul> <p><b>When there is simultaneous transmission –</b> <u>Stand-alone SAR not required when</u></p> <ul style="list-style-type: none"> <li>output <math>\leq 2 \cdot P_{Ref}</math> and antenna is <math>\geq 5.0</math> cm from other antennas</li> <li>output <math>\leq P_{Ref}</math> and antenna is <math>\geq 2.5</math> cm from other antennas</li> <li>output <math>\leq P_{Ref}</math> and antenna is <math>&lt; 2.5</math> cm from other antennas, each with either output power <math>\leq P_{Ref}</math> or 1-g SAR <math>&lt; 1.2</math> W/kg</li> </ul> <p><u>Otherwise stand-alone SAR is required</u></p> <p><b>When stand-alone SAR is required</b></p> <ul style="list-style-type: none"> <li>test SAR on highest output channel for each wireless mode and exposure condition</li> <li>if SAR for highest output channel is <math>&gt; 50\%</math> of SAR limit, evaluate all channels according to normal procedures</li> </ul>	
Jaw, Mouth and Nose	<u>Flat phantom SAR required</u> <ul style="list-style-type: none"> <li>when measurement is required in tight regions of SAM and it is not feasible or the results can be questionable due to probe tilt, calibration, positioning and orientation issues</li> <li>position rectangular and clam-shell phones according to flat phantom procedures and conduct SAR measurements for these specific locations</li> </ul>	When simultaneous transmission SAR testing is required, contact the FCC Laboratory for interim guidance.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

- 1) GSM can transmit simultaneously with Bluetooth.
- 2) The distance between BT and GSM antenna is  $3.1\text{cm} > 2.5\text{cm}$ . The max output power of Bluetooth antenna is  $4.82(\text{dBm}) = 3.03\text{ mW} < P_{\text{Ref}} (12\text{mW})$ . According to KDB648474, stand-alone SAR is not required for BT antenna and simultaneous SAR evaluation is not required for Bluetooth and GSM antennas.

**Result:** Compliance

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## **FCC §15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

According to §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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following 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, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

### **Antenna Connector Construction**

The EUT has an integral antenna of bluetooth (PIFA Antenna), the gain is -3.0 dBi, which is in accordance to section 15.203, please refer to the internal photos.

**Result:** Compliance.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

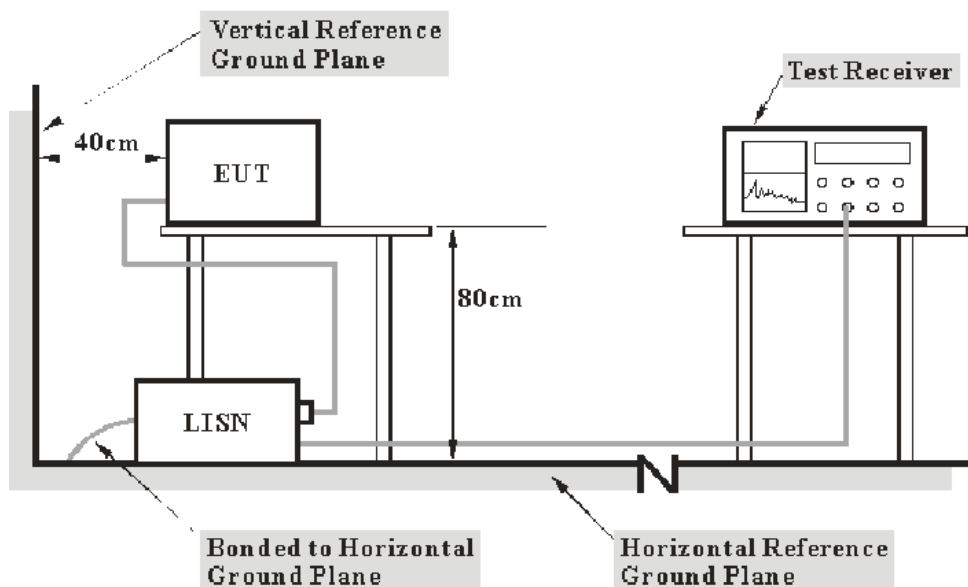
FCC §15.207

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratory Corp. (Shenzhen) is 2.4 dB(k=2, 95% level of confidence).

### EUT Setup



- Note: 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

## EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<b><i>Frequency Range</i></b>	<b><i>IF B/W</i></b>
150 kHz – 30 MHz	9 kHz

## Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

## Test Equipment List and Details

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2011-03-03	2012-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-03-09	2012-03-08

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

**18.78 dB at 27.120 MHz in the Line conducted mode**

## Test Data

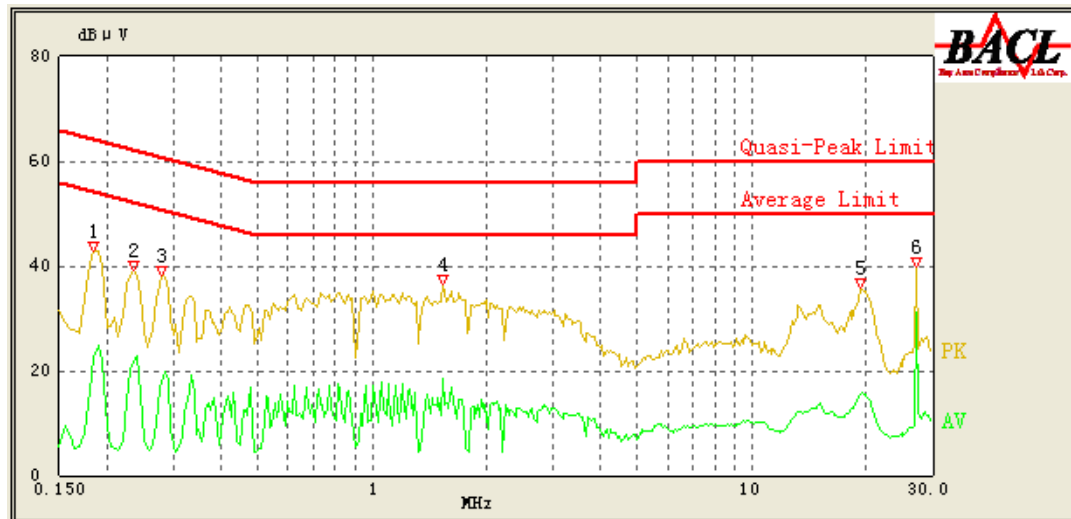
### Environmental Conditions

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	100.0kPa

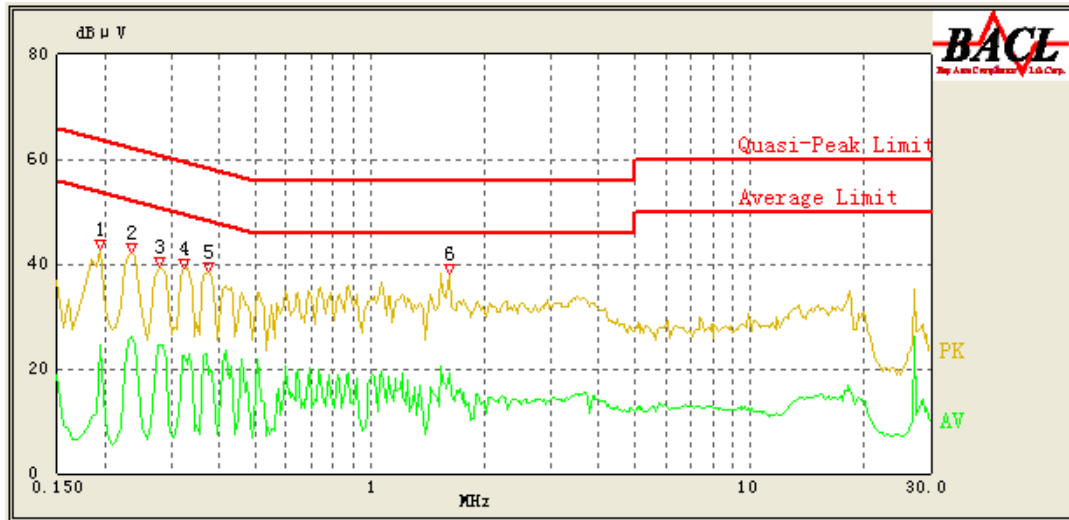
\* *The testing was performed by Henry Ding on 2012-01-12.*

Test Mode: Adapter Charging & Transmitting

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
27.120	31.22	10.10	50.00	18.78	Ave.
27.120	35.10	10.10	60.00	24.90	QP
1.535	30.77	10.10	56.00	25.23	QP
0.185	39.47	10.10	65.00	25.53	QP
1.540	18.35	10.10	46.00	27.65	Ave.
0.235	35.71	10.10	63.57	27.86	QP
0.280	33.59	10.10	62.29	28.70	QP
0.235	21.37	10.10	53.57	32.20	Ave.
0.185	22.55	10.10	55.00	32.45	Ave.
19.375	27.43	10.10	60.00	32.57	QP
19.245	15.52	10.10	50.00	34.48	Ave.
0.280	17.71	10.10	52.29	34.58	Ave.

**AC 120V/60 Hz, Neutral**

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/ QP/Ave.)
1.615	31.97	10.10	56.00	24.03	QP
0.195	40.10	10.10	64.71	24.61	QP
0.375	34.11	10.10	59.57	25.46	QP
0.235	38.07	10.10	63.57	25.50	QP
0.325	35.21	10.10	61.00	25.79	QP
0.280	35.48	10.10	62.29	26.81	QP
1.615	19.12	10.10	46.00	26.88	Ave.
0.235	26.27	10.10	53.57	27.30	Ave.
0.280	24.41	10.10	52.29	27.88	Ave.
0.325	22.52	10.10	51.00	28.48	Ave.
0.195	24.40	10.10	54.71	30.31	Ave.
0.375	18.80	10.10	49.57	30.77	Ave.

## FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

### Applicable Standard

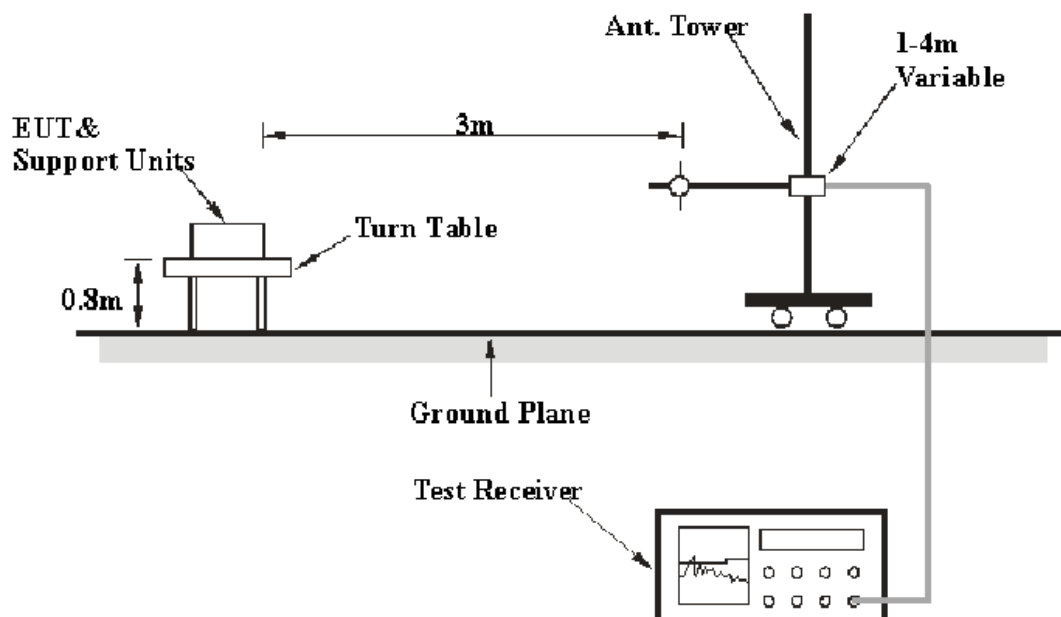
FCC §15.247 (d); §15.209; §15.205;

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB(k=2, 95% level of confidence).

### EUT Setup



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.



## EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>	<i>Detector</i>
30 MHz – 1000 MHz	100 kHz	300 kHz	QP
1000 MHz – 25 GHz	1 MHz	3 MHz	PK
1000 MHz – 25 GHz	1 MHz	10 Hz	Ave.

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequency above 1 GHz.

## Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04
Mini-Circuits	Amplifier	ZVA-213+	T-E27H	2011-03-08	2012-03-07
Sunol Sciences	Horn Antenna	DRH-118	A052604	2011-05-04	2012-05-03
Electro-Mechanics	Horn Antenna	3116	9510-2270	2011-10-11	2012-10-10
Rohde & Schwarz	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247, with the worst margin reading of:

**6.23 dB at 7440 MHz in the Horizontal polarization in high channel (2480MHz)**

## Test Data

### Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

*The testing was performed by Henry Ding on 2012-01-12.*

*Test Mode: Transmitting*

**30MHz-25 GHz (8DPSK mode was the worst case)**

Indicated		Detector (PK/Ave.)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247/15.209			
Frequency (MHz)	S.A. Reading (dBμV)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Comment
Low Channel (2402 MHz)												
2402	87.65	PK	150	1.5	H	30.5	3.03	26.83	94.35	/	/	Fund.
2402	65.46	Ave.	150	1.5	H	30.5	3.03	26.83	72.16	/	/	Fund.
2402	86.98	PK	240	2.0	V	30.5	3.03	26.83	93.68	/	/	Fund.
2402	65.13	Ave.	240	2.0	V	30.5	3.03	26.83	71.83	/	/	Fund.
7206	27.52	Ave.	120	1.2	H	39.2	5.164	26.64	45.24	54	8.76	harmonic
7206	28.51	Ave.	190	1.5	V	37.9	5.164	26.64	44.93	54	9.07	harmonic
4804	27.51	Ave.	310	1.6	V	35.2	4.28	26.73	40.26	54	13.74	harmonic
2389.1	33.19	Ave.	75	1.9	V	30.5	2.98	26.83	39.84	54	14.16	Spurious
2389.1	31.26	Ave.	120	1.2	H	30.4	2.98	26.83	37.81	54	16.19	Spurious
4804	23.24	Ave.	250	2.1	H	36.3	4.28	26.73	37.09	54	16.91	harmonic
7206	39.32	PK	120	1.2	H	39.2	5.164	26.64	57.04	74	16.96	harmonic
7206	38.52	PK	190	1.9	V	37.8	5.164	26.64	54.84	74	19.16	harmonic
2389.1	45.72	PK	75	1.9	V	30.5	2.98	26.83	52.37	74	21.63	Spurious
2389.1	43.34	PK	120	1.2	H	30.4	2.98	26.83	49.89	74	24.11	Spurious
4804	35.52	PK	310	1.6	V	35.2	4.28	26.73	48.27	74	25.73	harmonic
4804	33.35	PK	250	2.1	H	36.3	4.28	26.73	47.20	74	26.8	harmonic
Middle Channel (2441 MHz)												
2441	89.33	PK	150	1.5	H	30.6	3.11	26.83	96.21	/	/	Fund.
2441	67.28	Ave.	150	1.5	H	30.6	3.11	26.83	74.16	/	/	Fund.
2441	87.64	PK	260	1.2	V	30.6	3.11	26.83	94.52	/	/	Fund.
2441	65.83	Ave.	260	1.2	V	30.6	3.11	26.83	72.71	/	/	Fund.
4882	30.4	Ave.	180	1.8	V	35.4	4.37	26.75	43.42	54	10.58	harmonic
4882	28.52	Ave.	170	1.2	H	36.6	4.37	26.75	42.74	54	11.26	harmonic
7323	22.57	Ave.	190	1.3	H	39.1	5.09	26.64	40.12	54	13.88	harmonic
7323	21.56	Ave.	240	1.7	V	37.8	5.09	26.64	37.81	54	16.19	harmonic
7323	38.76	PK	190	1.3	H	39.1	5.09	26.64	56.31	74	17.69	harmonic
7323	37.49	PK	240	1.7	V	37.8	5.09	26.64	53.74	74	20.26	harmonic
4882	37.52	PK	180	1.8	V	35.4	4.37	26.75	50.54	74	23.46	harmonic
4882	35.52	PK	170	1.2	H	36.6	4.37	26.75	49.74	74	24.26	harmonic
High Channel (2480 MHz)												
2480	88.92	PK	230	2.1	H	30.6	3.11	26.81	95.82	/	/	Fund.
2480	66.03	Ave.	230	2.1	H	30.6	3.11	26.81	72.93	/	/	Fund.
2480	89.79	PK	150	1.5	V	30.6	3.11	26.81	96.69	/	/	Fund.
2480	67.11	Ave.	150	1.5	V	30.6	3.11	26.81	74.01	/	/	Fund.
7440	30.21	Ave.	250	2.1	H	39.0	5.20	26.64	47.77	54	6.23	harmonic
7440	30.24	Ave.	180	1.2	V	37.7	5.20	26.64	46.50	54	7.50	harmonic
4960	30.23	Ave.	170	2.4	H	36.6	4.37	26.75	44.45	54	9.55	harmonic
4960	29.22	Ave.	180	1.6	V	35.4	4.37	26.75	42.24	54	11.76	harmonic
2479.3	31.92	Ave.	360	1.2	V	30.6	3.11	26.83	38.80	54	15.20	Spurious
2479.3	31.59	Ave.	230	1.1	V	30.6	3.11	26.83	38.47	54	15.53	Spurious
7440	39.23	PK	250	2.1	H	39.0	5.20	26.64	56.79	74	17.21	harmonic
7440	38.51	PK	180	1.2	V	37.7	5.20	26.64	54.77	74	19.23	harmonic
4960	38.25	PK	170	2.4	H	36.6	4.37	26.75	52.47	74	21.53	harmonic
2479.3	44.61	PK	360	1.2	V	30.6	3.11	26.83	51.49	74	22.51	Spurious
2479.3	44.29	PK	230	1.1	V	30.6	3.11	26.83	51.17	74	22.83	Spurious
4960	37.56	PK	180	1.6	V	35.4	4.37	26.75	50.58	74	23.42	harmonic

**FCC §15.247(a) (1) - CHANNEL SEPARATION TEST****Applicable Standard**

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.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

**Test Procedure**

1. Set the EUT in transmitting mode, RBW was set at 30 kHz; maxhold the channel.
2. Set the adjacent channel of the EUT maxhold another truce
3. Measure the channel separation.

**Test Data****Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.9kPa

\* The testing was performed by Henry Ding on 2012-01-13.

**Test Result:** Compliance.

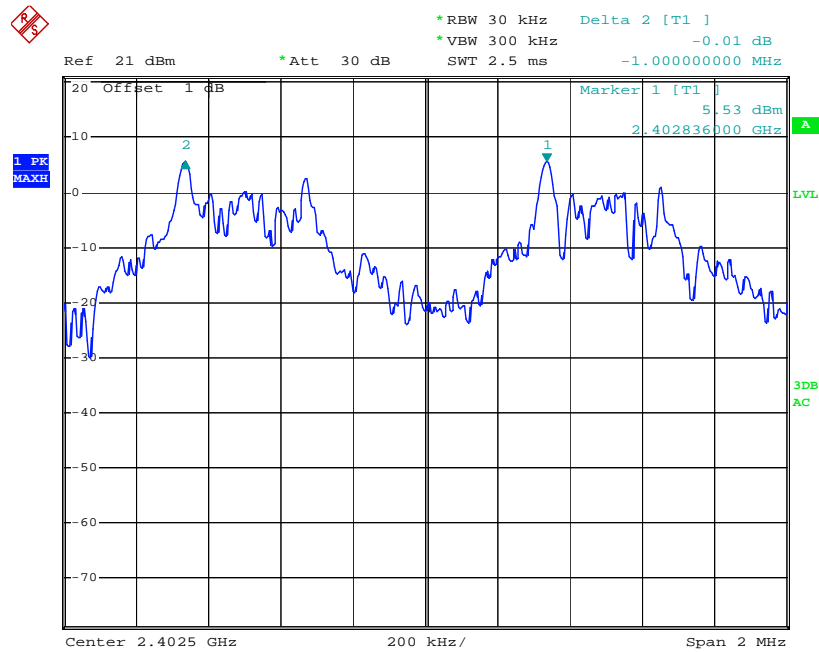
Please refer to following tables and plots

Test Mode: Transmitting

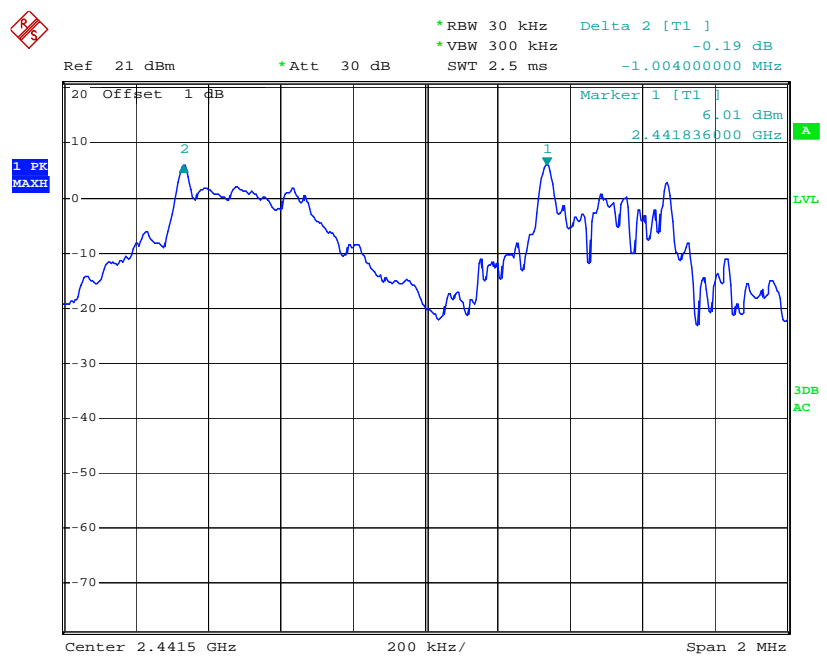
BDR Mode (GFSK):

Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low	2402	1.000	0.619	Pass
Adjacent	2403			
Middle	2441	1.004	0.619	Pass
Adjacent	2442			
High	2480	1.000	0.619	Pass
Adjacent	2479			

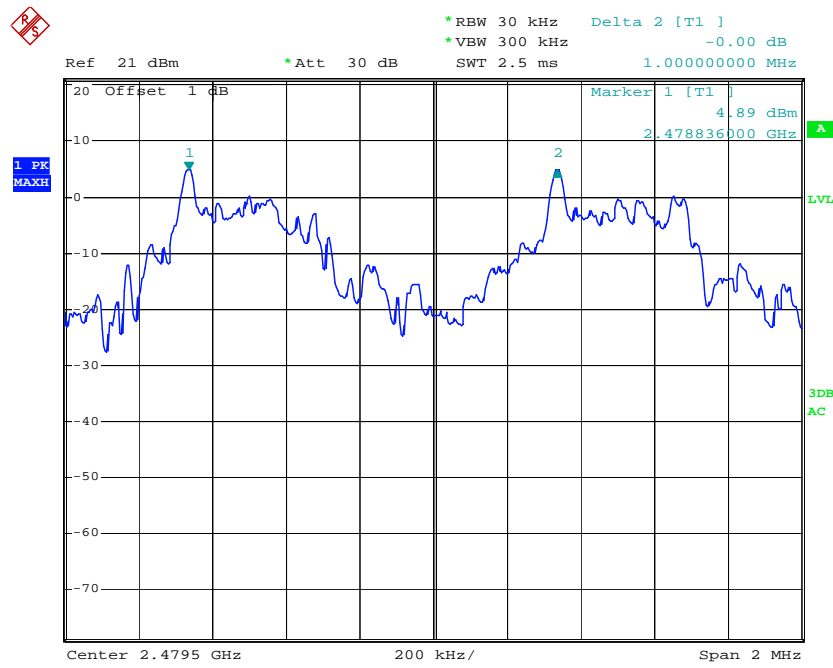
### Low Channel



Middle Channel



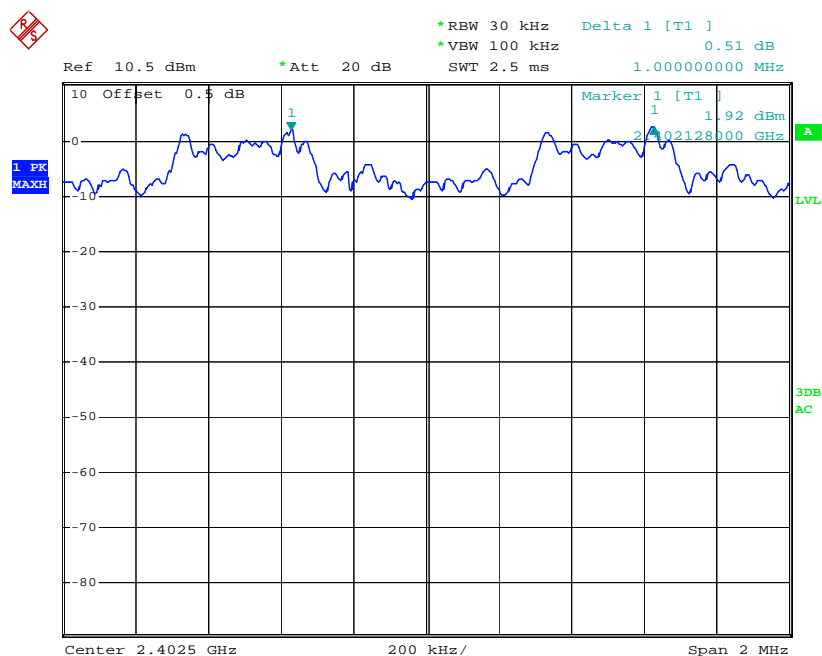
High Channel



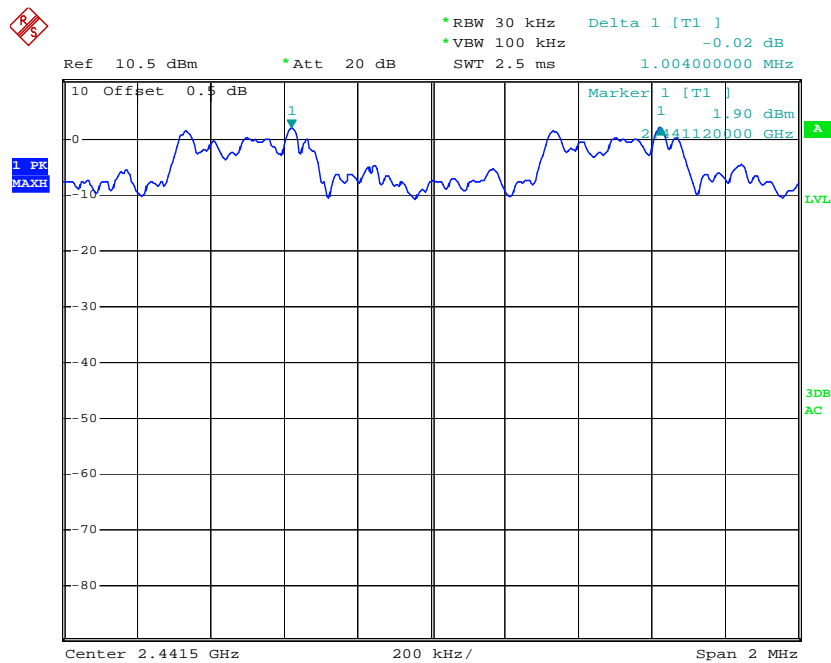
EDR Mode ( $\pi/4$ -DQPSK):

Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low	2402	1.000	0.840	Pass
Adjacent	2403			
Middle	2441	1.004	0.843	Pass
Adjacent	2442			
High	2480	1.044	0.832	Pass
Adjacent	2479			

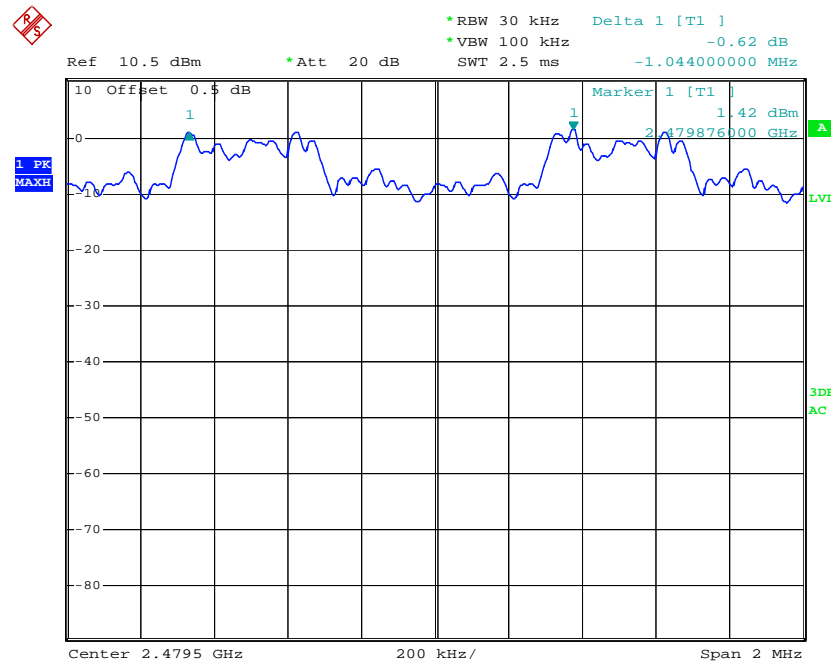
## Low Channel



Middle Channel



High Channel

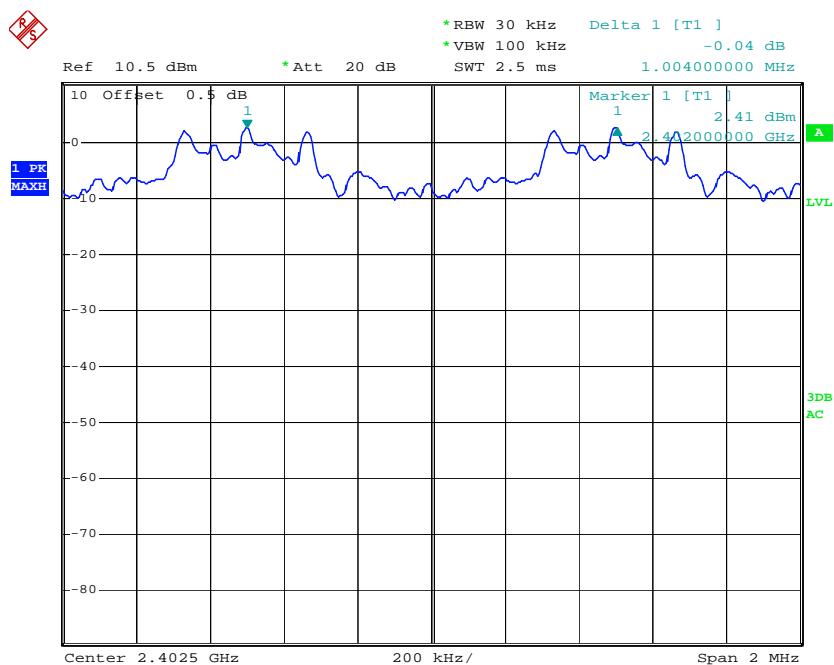




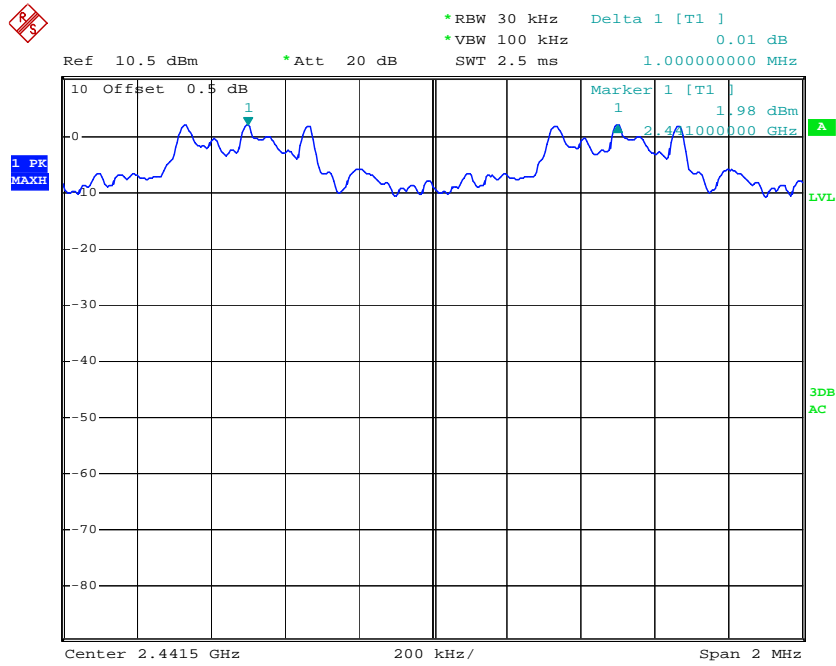
EDR Mode (8DPSK):

Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low	2402	1.004	0.821	Pass
Adjacent	2403			
Middle	2441	1.000	0.821	Pass
Adjacent	2442			
High	2480	1.048	0.816	Pass
Adjacent	2479			

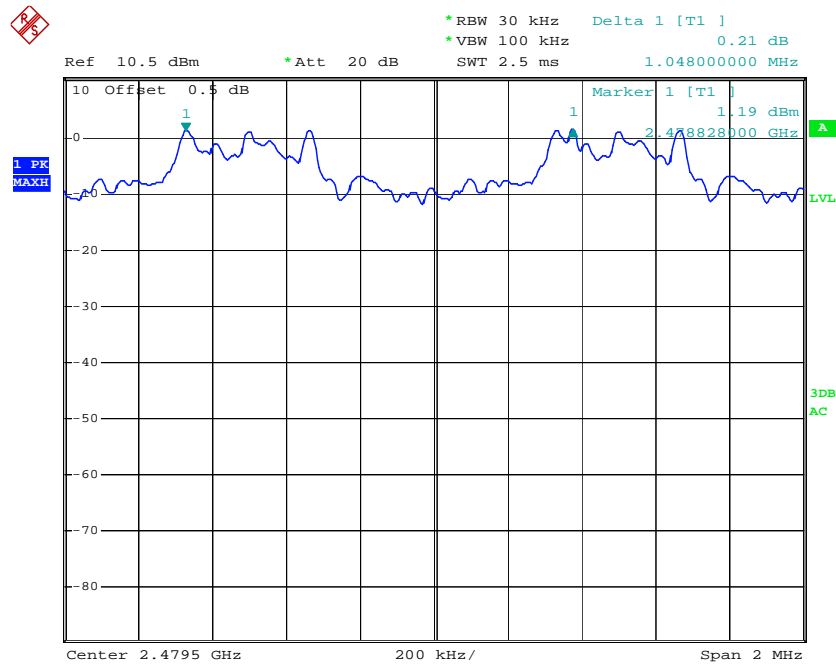
## Low Channel



### Middle Channel



### High Channel



**FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING****Applicable Standard**

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.

**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.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

**Test Data****Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.9kPa

\* The testing was performed by Henry Ding on 2012-01-13.

**Test Result:** Compliance.

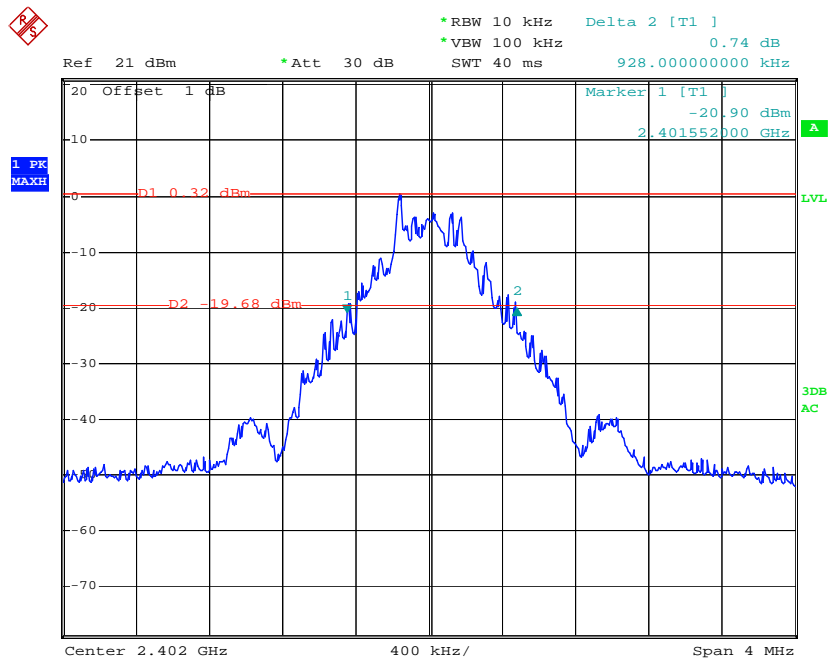
Please refer to following tables and plots

*Test Mode: Transmitting*

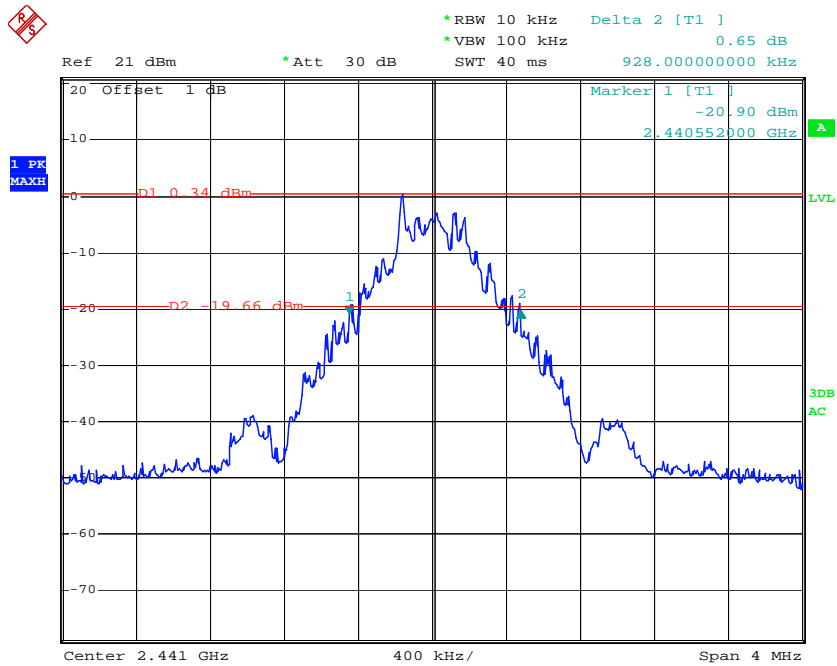
*BDR Mode (GFSK):*

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	0.928
Middle	2441	0.928
High	2480	0.928

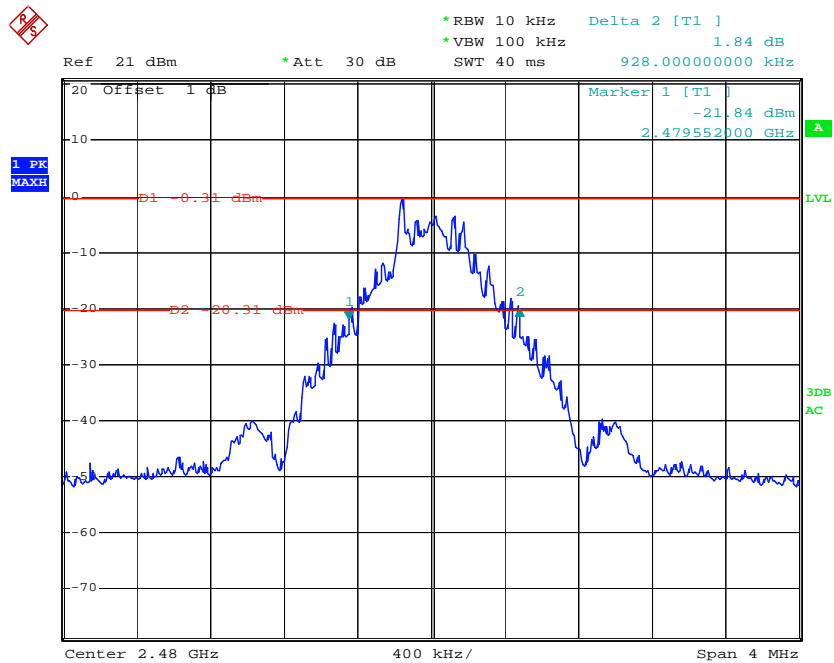
### Low Channel



### Middle Channel



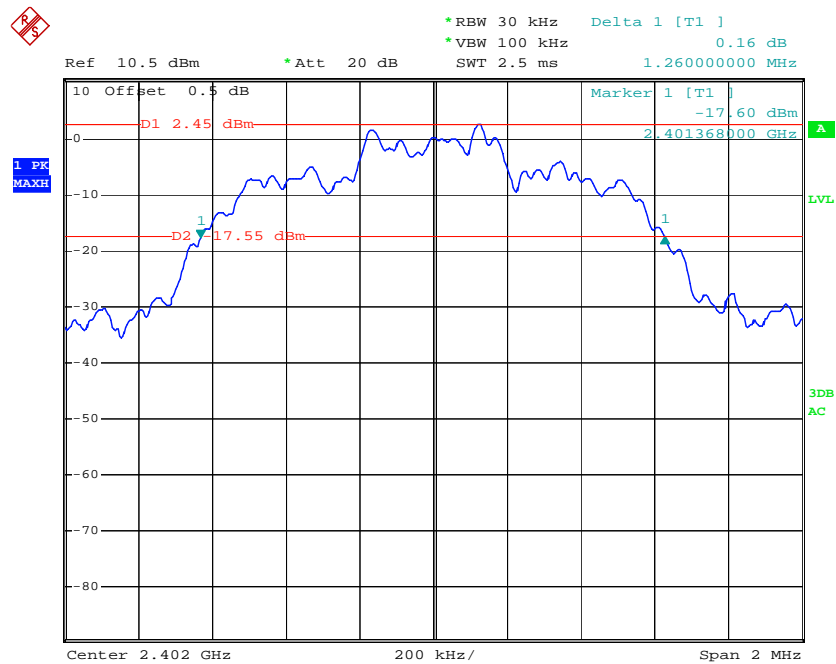
### High Channel



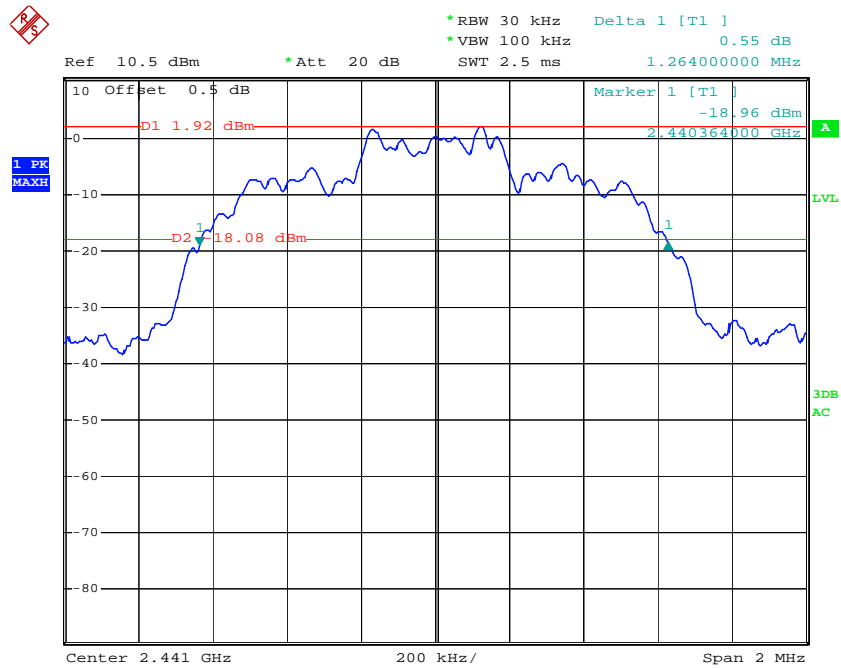
EDR Mode(  $\pi/4$ -DQPSK):

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.260
Middle	2441	1.264
High	2480	1.248

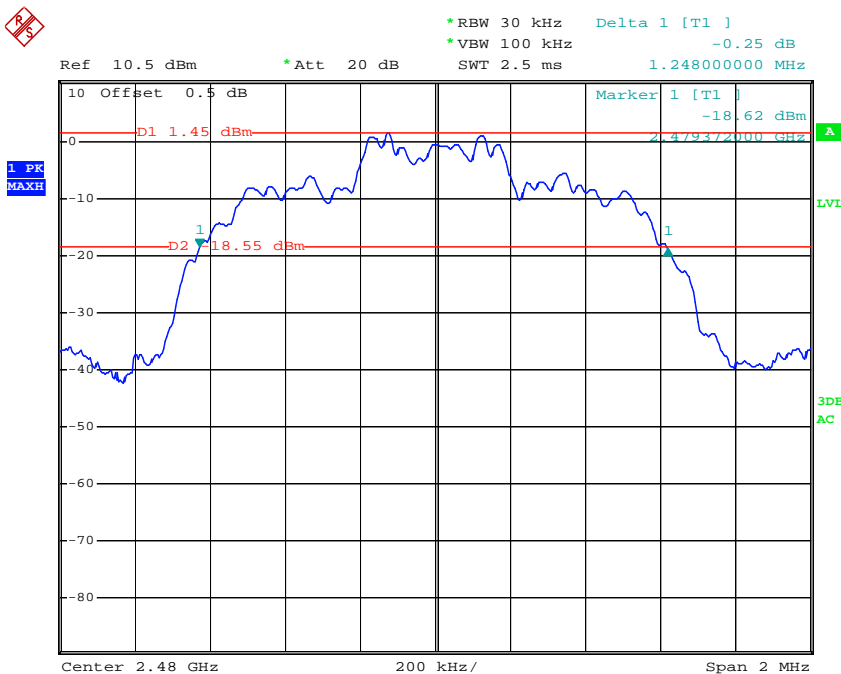
### Low Channel



### Middle Channel



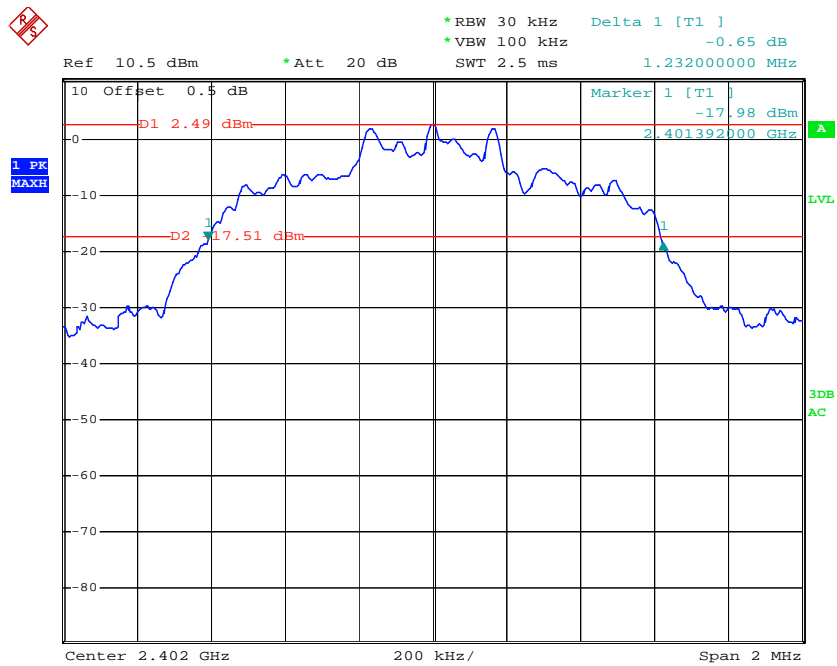
### High Channel



EDR Mode(8DPSK):

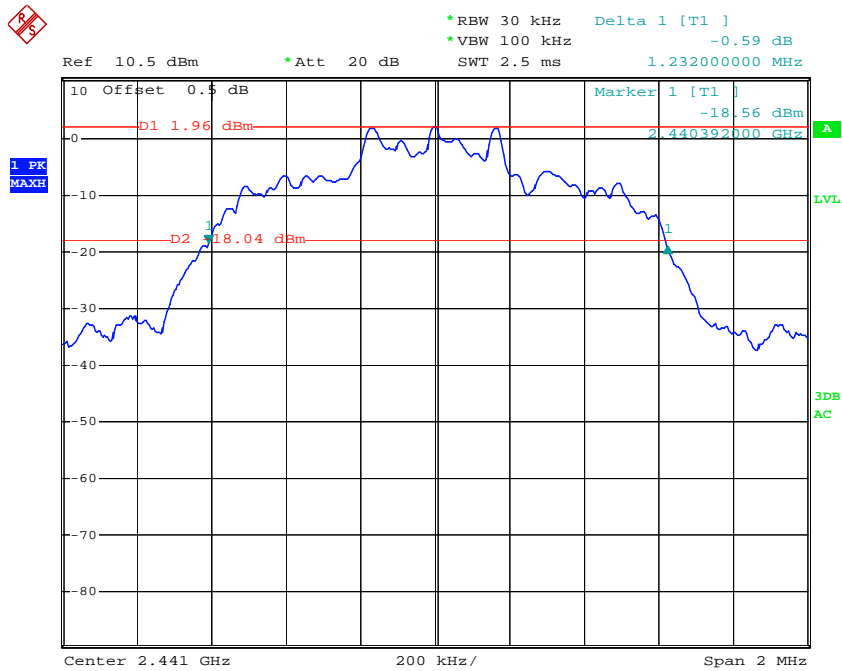
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.232
Middle	2441	1.232
High	2480	1.224

### Low Channel

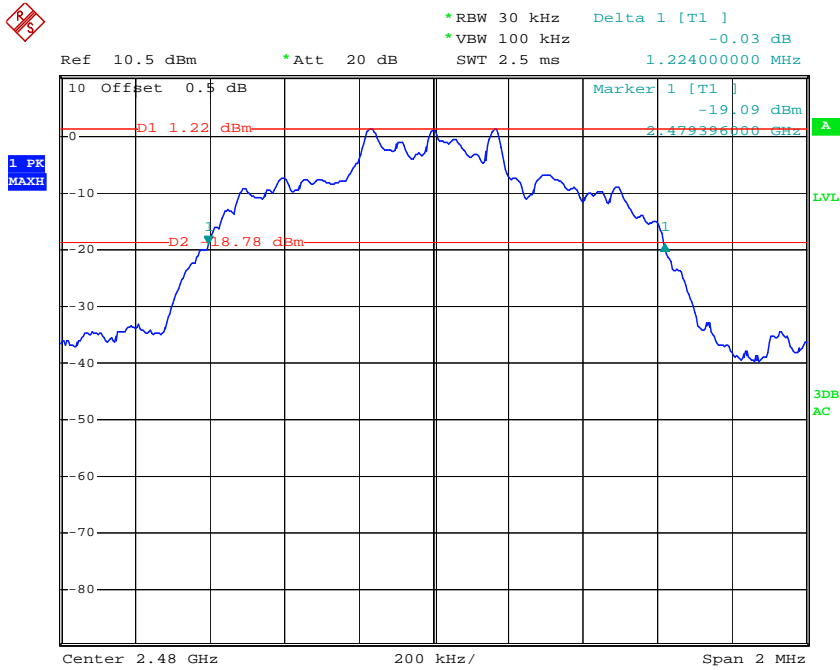




### Middle Channel



### High Channel



**FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST****Applicable Standard**

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.

**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.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

**Test Data****Environmental Conditions**

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	100.9kPa

*The testing was performed by Henry Ding on 2012-01-13.*

**Test Result:** Compliance.

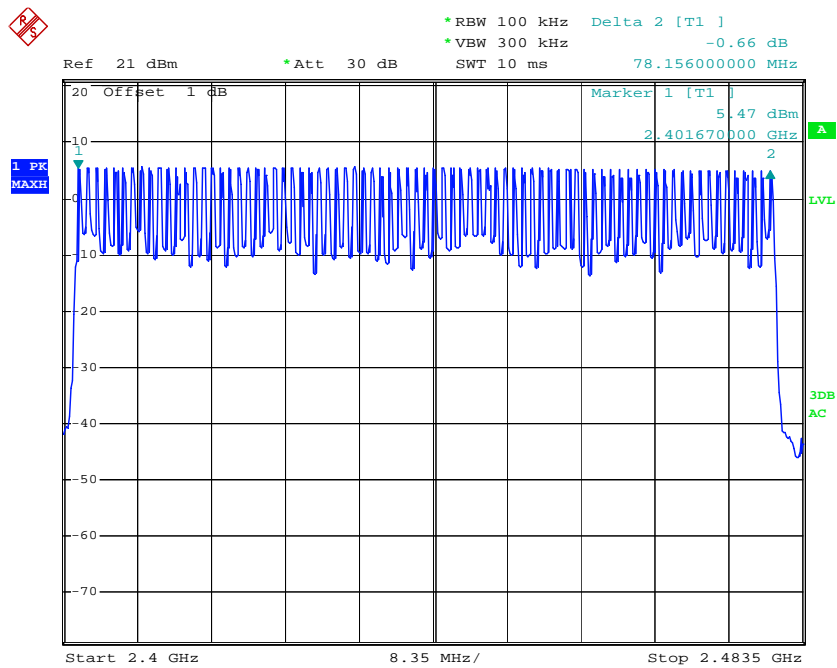
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

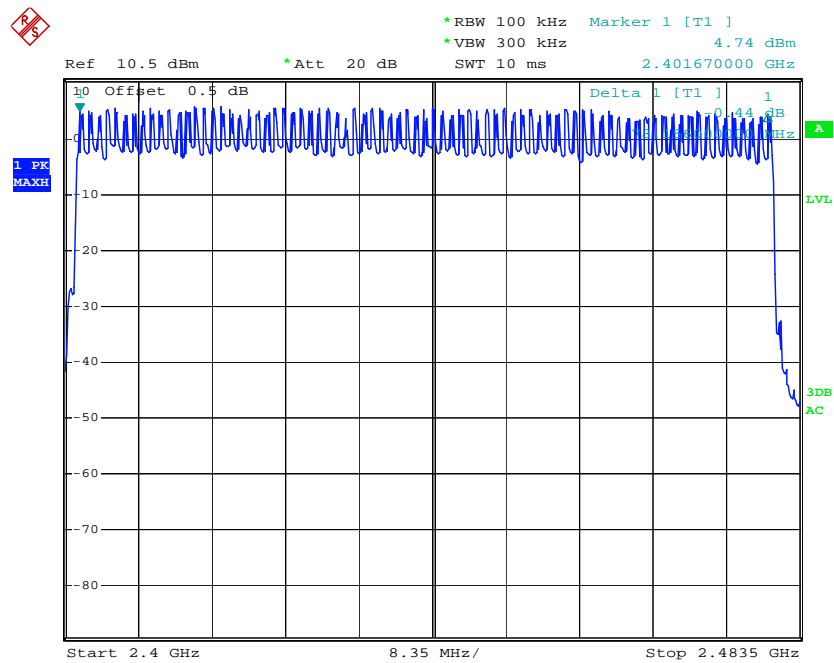
Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.50	79	$\geq 15$

### Number of Hopping Channels



EDR Mode ( $\pi/4$ -DQPSK):

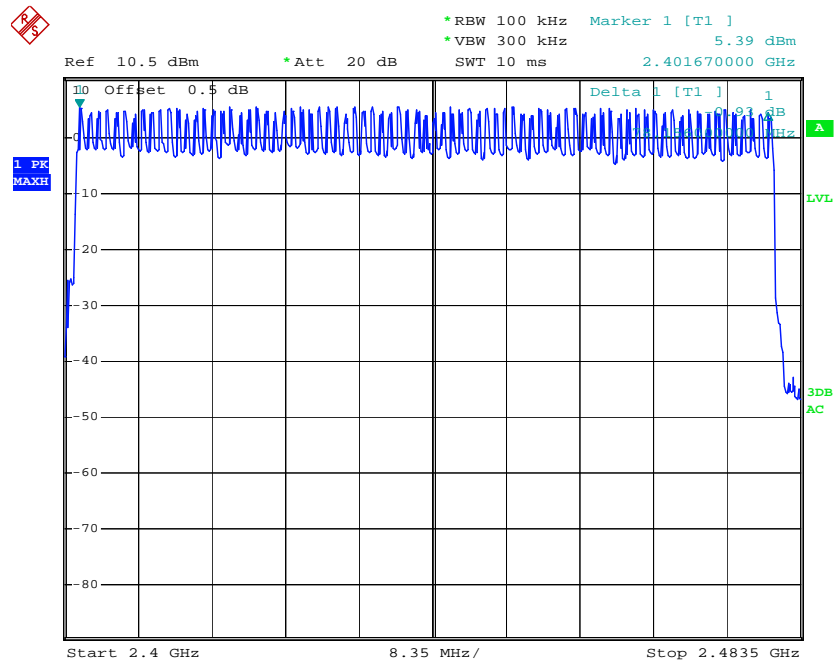
Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.50	79	$\geq 15$

**Number of Hopping Channels**

EDR Mode (8DPSK):

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.50	79	$\geq 15$

### Number of Hopping Channels



**FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)****Applicable Standard**

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.

**Test Procedure**

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

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

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

**Test Data****Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0kPa

\* The testing was performed by Henry Ding on 2012-01-13.

**Test Result:** Compliance.

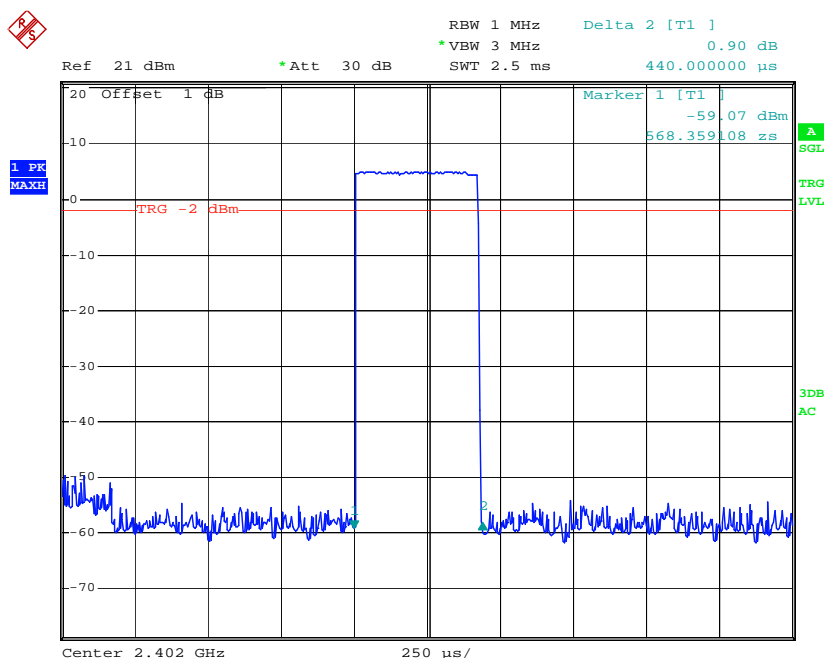
Please refer to following tables and plots

Test Mode: Transmitting

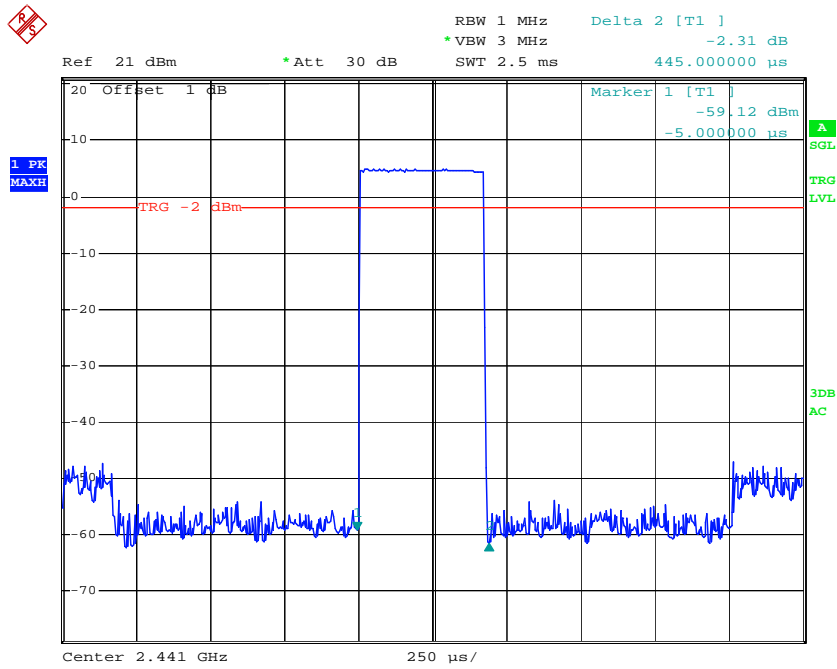
**BDR Mode (GFSK):**

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH 1	Low	0.440	0.1408	0.4	Pass
	Middle	0.445	0.1424	0.4	Pass
	High	0.445	0.1424	0.4	Pass
	Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6s				
DH 3	Low	1.715	0.2744	0.4	Pass
	Middle	1.715	0.2744	0.4	Pass
	High	1.715	0.2744	0.4	Pass
	Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6s				
DH 5	Low	2.979	0.3178	0.4	Pass
	Middle	2.977	0.3175	0.4	Pass
	High	2.977	0.3175	0.4	Pass
	Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6s				

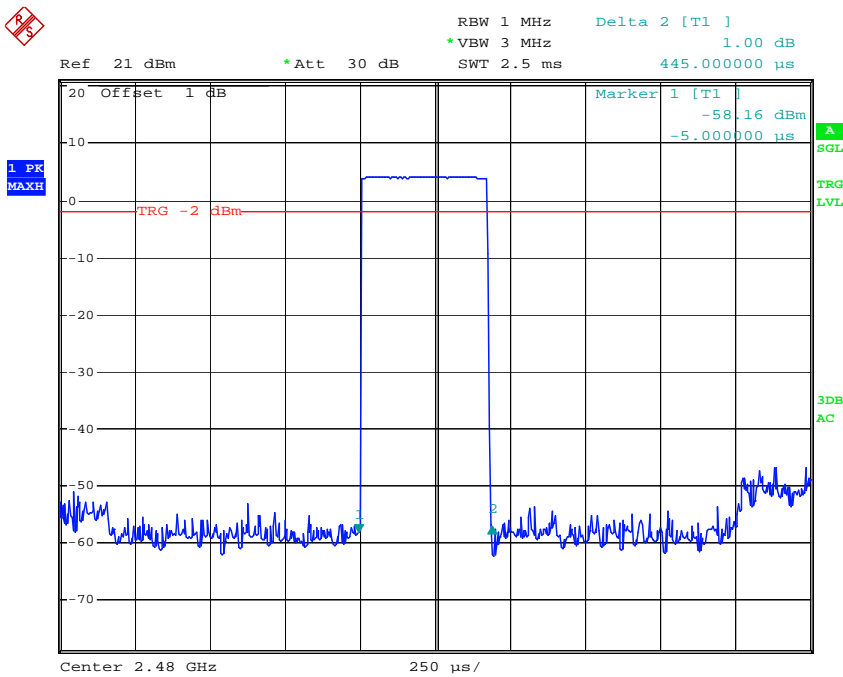
### Low Channel for DH1



### Middle Channel for DH1

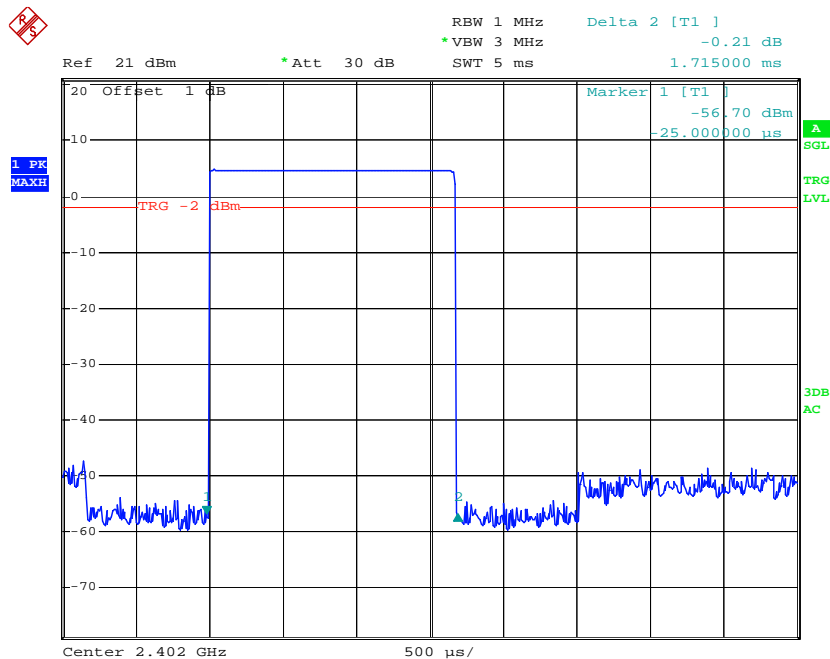


### High Channel for DH1

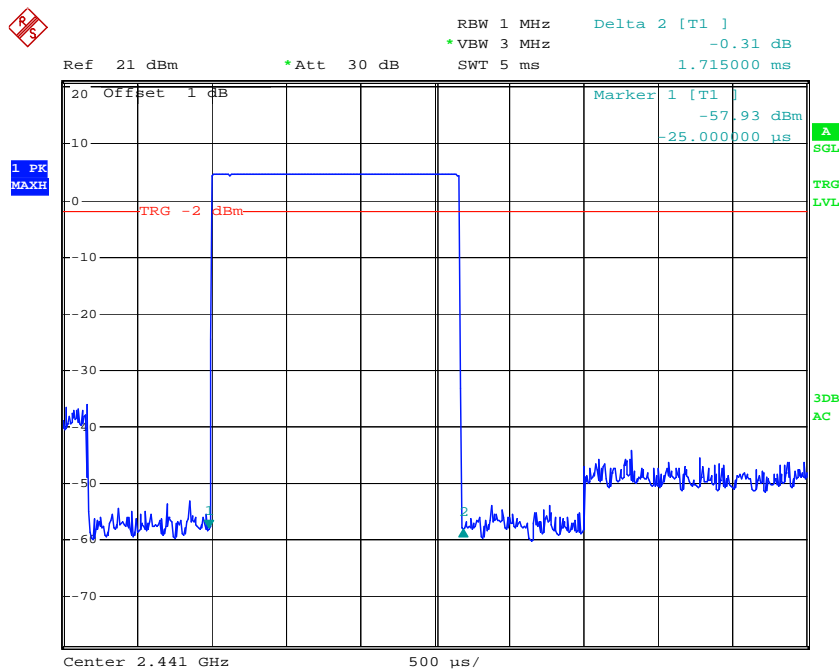




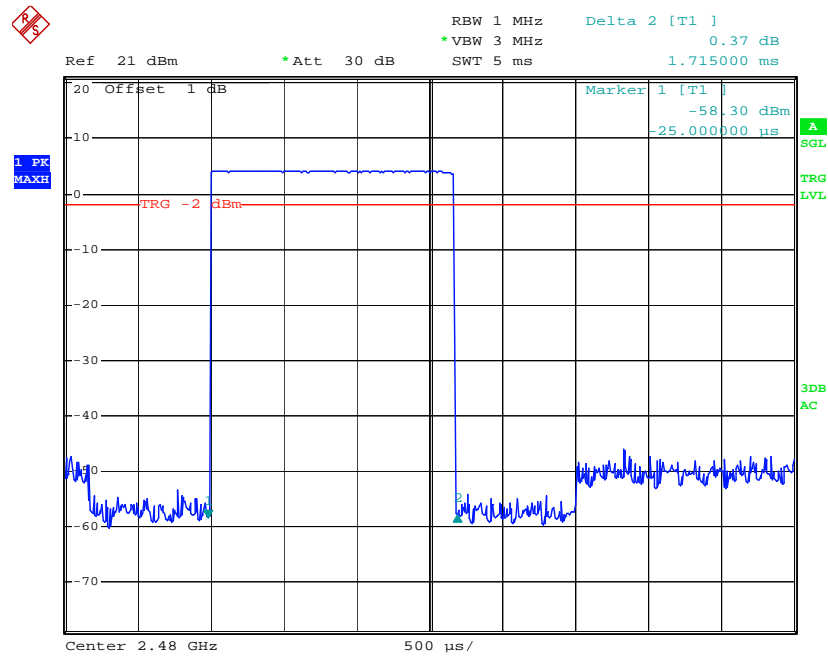
Low Channel for DH3



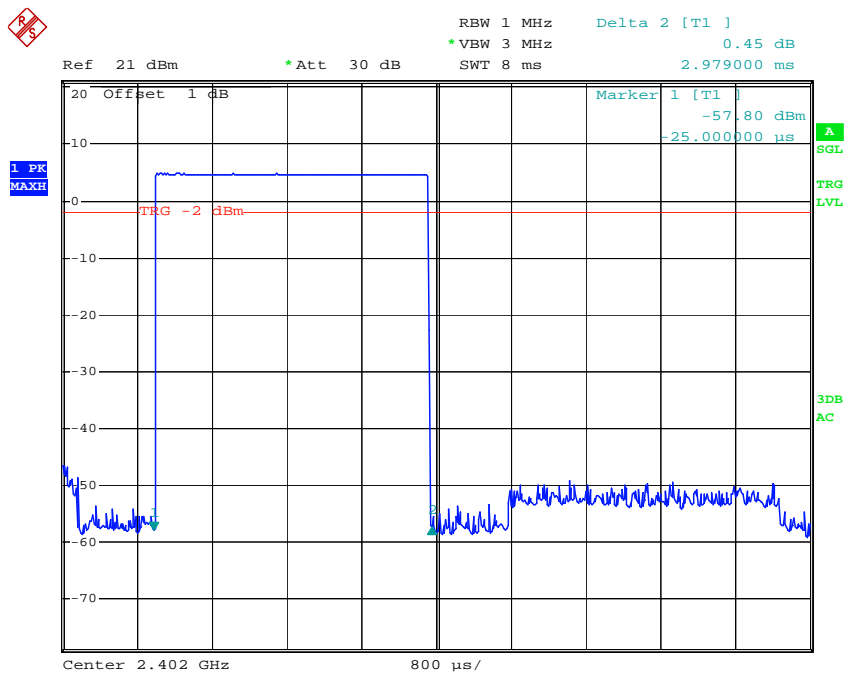
Middle Channel for DH3



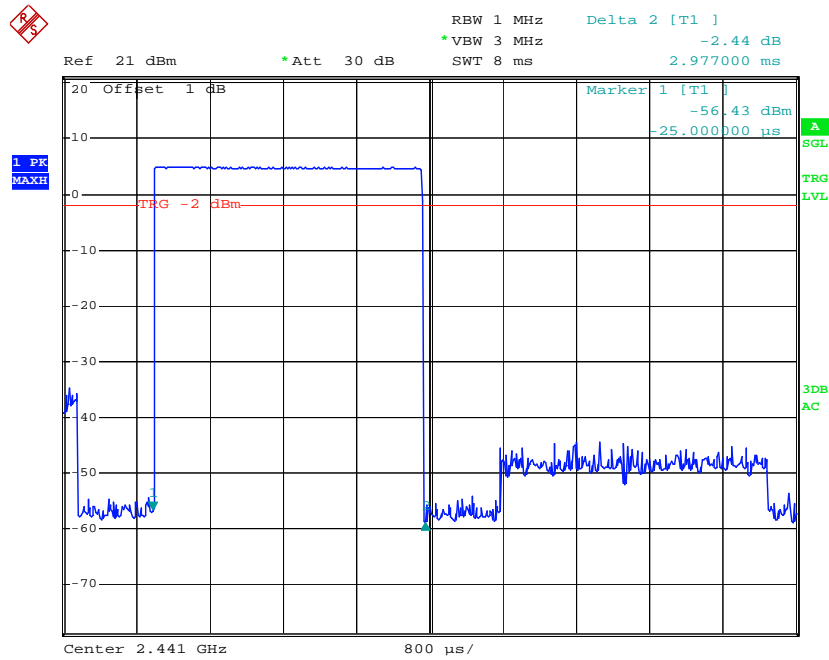
### High Channel for DH3



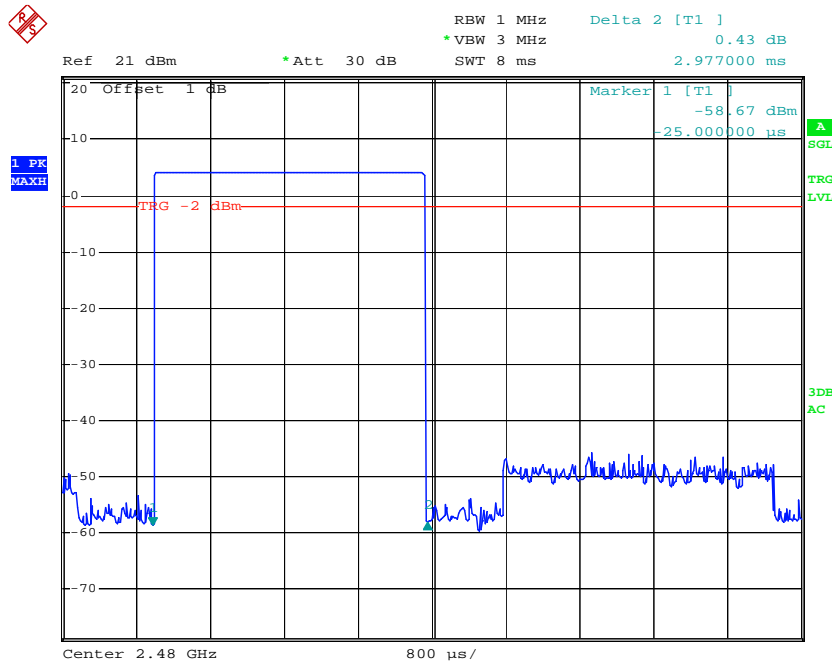
### Low Channel for DH5



### Middle Channel for DH5

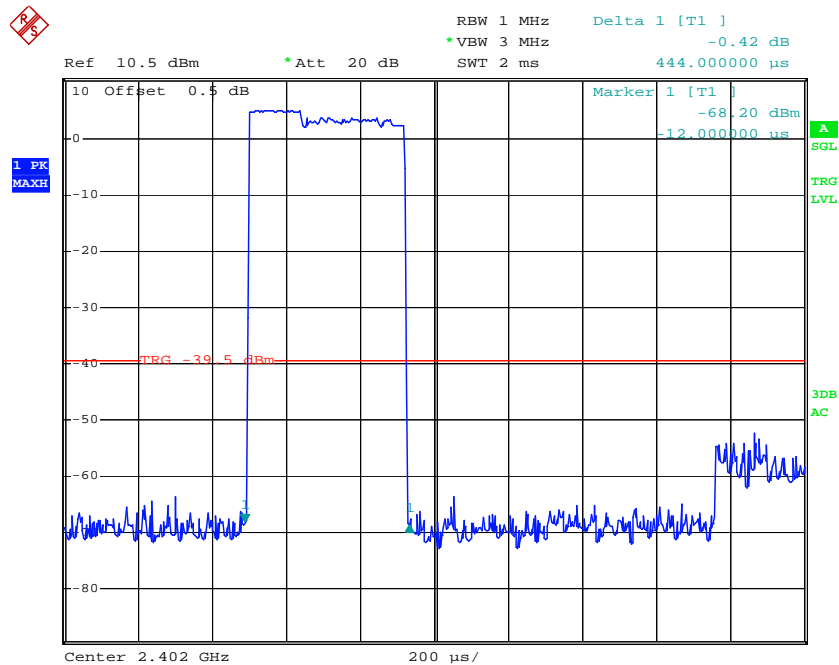


### High Channel for DH5

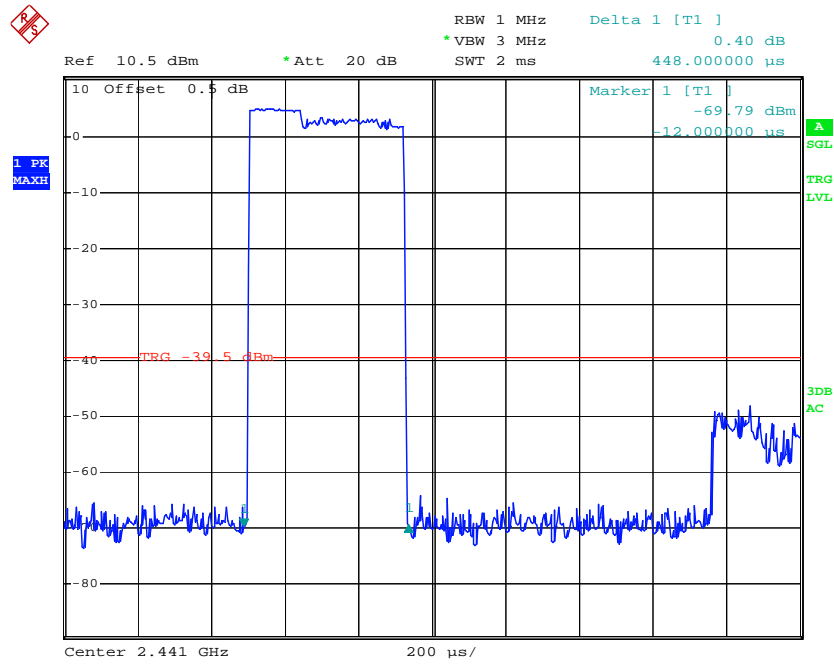


**EDR Mode ( $\pi/4$ -DQPSK):**

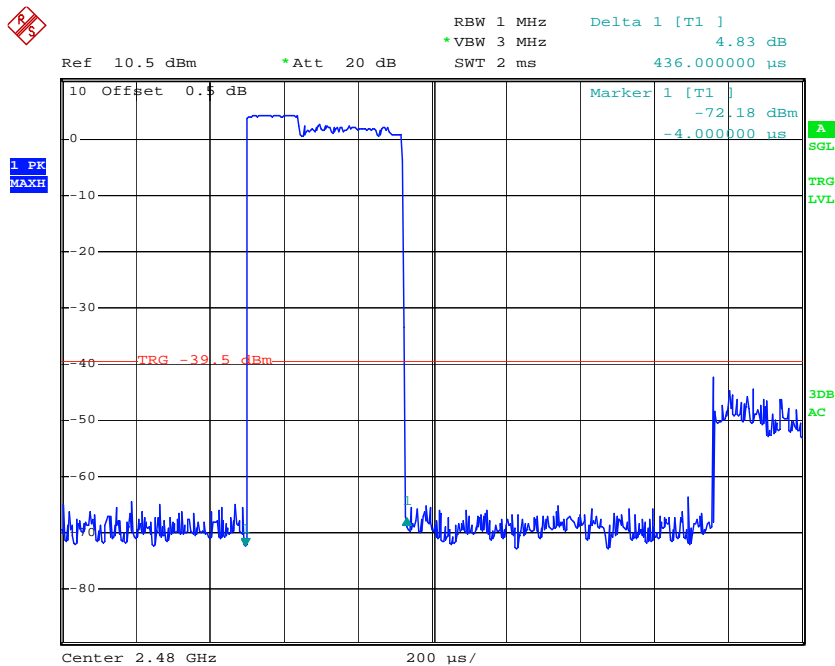
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH 1	Low	0.444	0.1421	0.4	Pass
	Middle	0.448	0.1434	0.4	Pass
	High	0.436	0.1395	0.4	Pass
	Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6s				
DH 3	Low	1.720	0.2752	0.4	Pass
	Middle	1.710	0.2736	0.4	Pass
	High	1.710	0.2736	0.4	Pass
	Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6s				
DH 5	Low	2.964	0.3162	0.4	Pass
	Middle	2.964	0.3162	0.4	Pass
	High	2.964	0.3162	0.4	Pass
	Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6s				

**Low Channel for DH1**

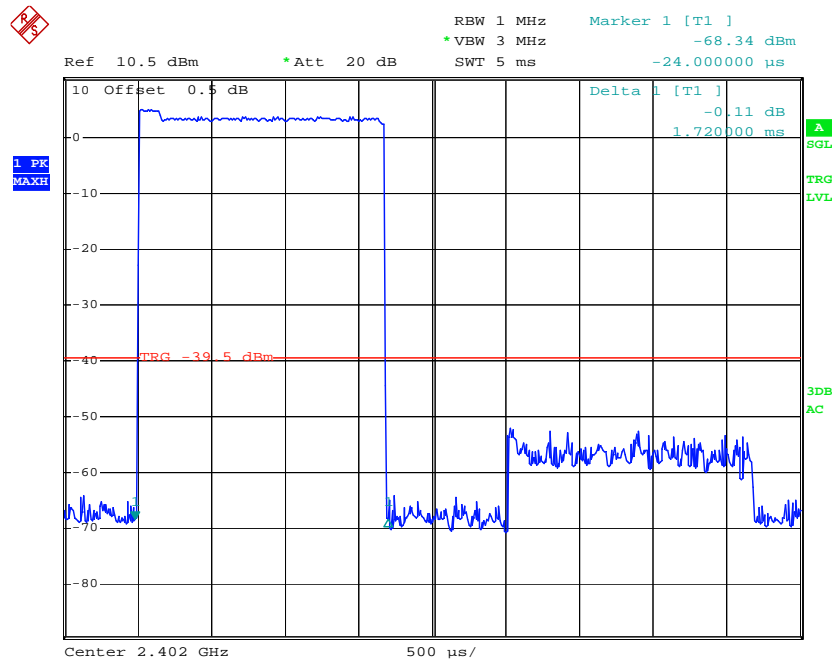
### Middle Channel for DH1



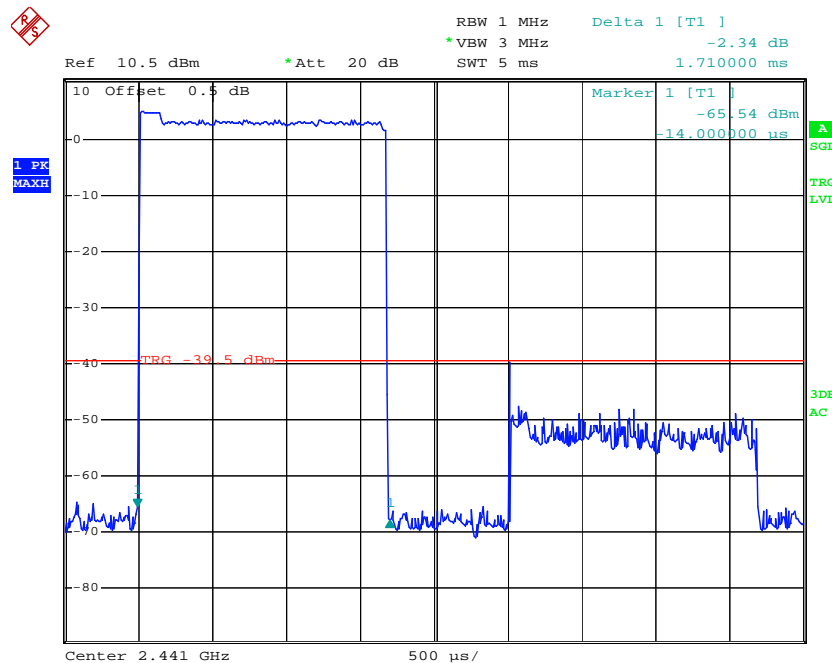
### High Channel for DH1



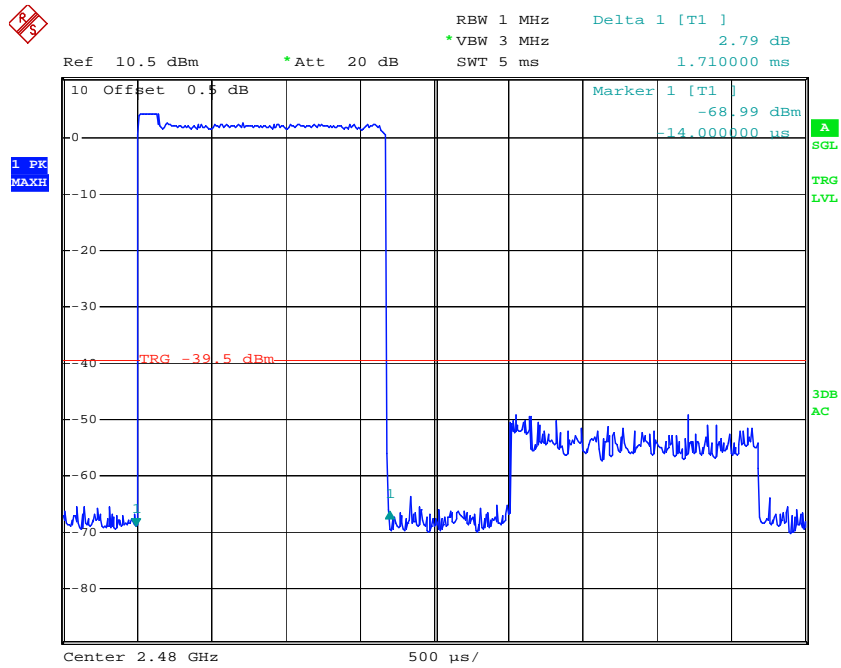
### Low Channel for DH3



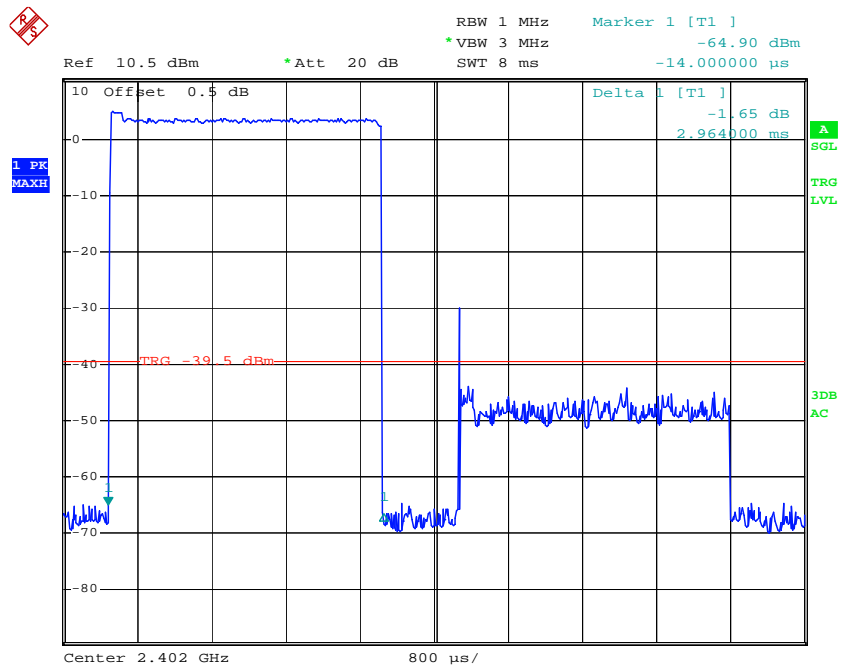
### Middle Channel for DH3



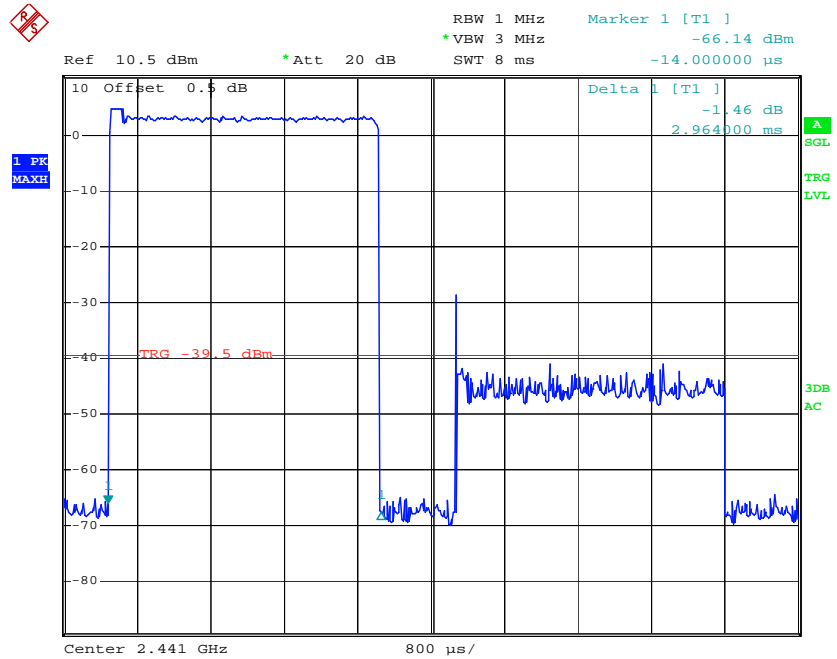
### High Channel for DH3



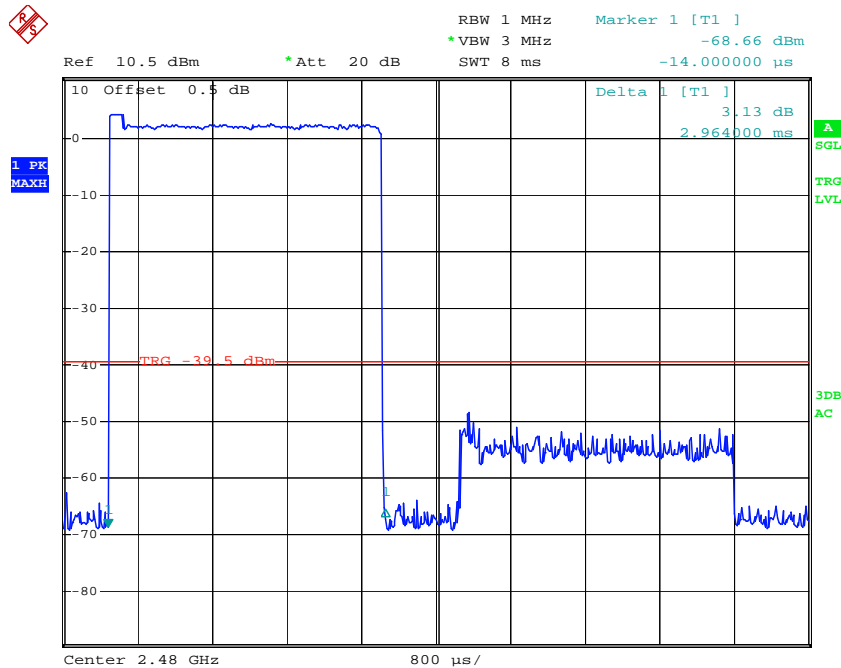
### Low Channel for DH5



### Middle Channel for DH5



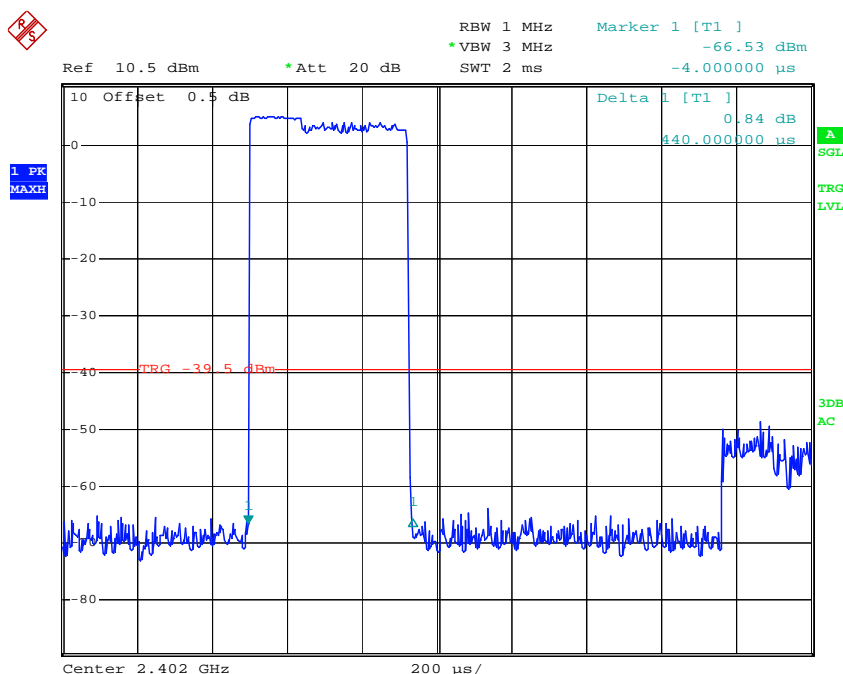
### High Channel for DH5



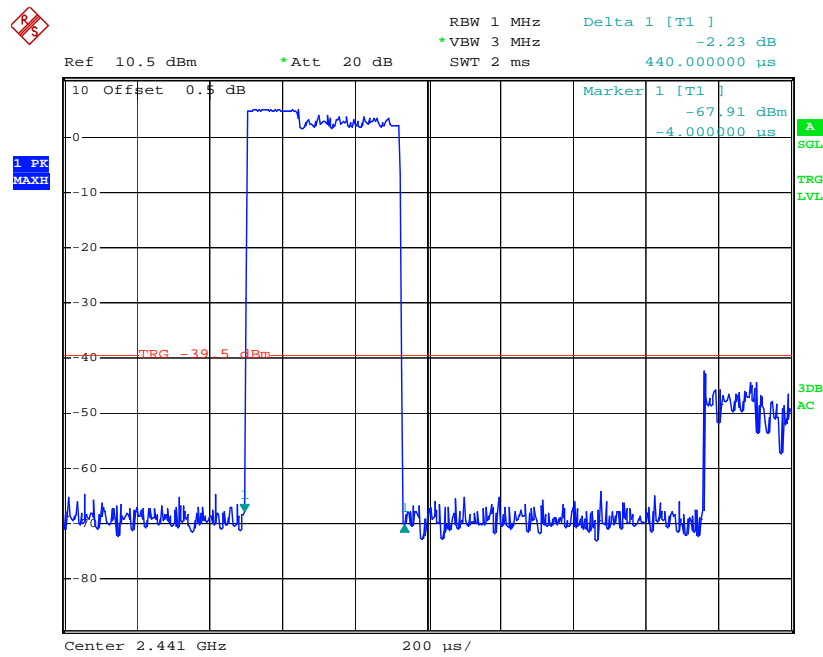


**EDR Mode (8DPSK):**

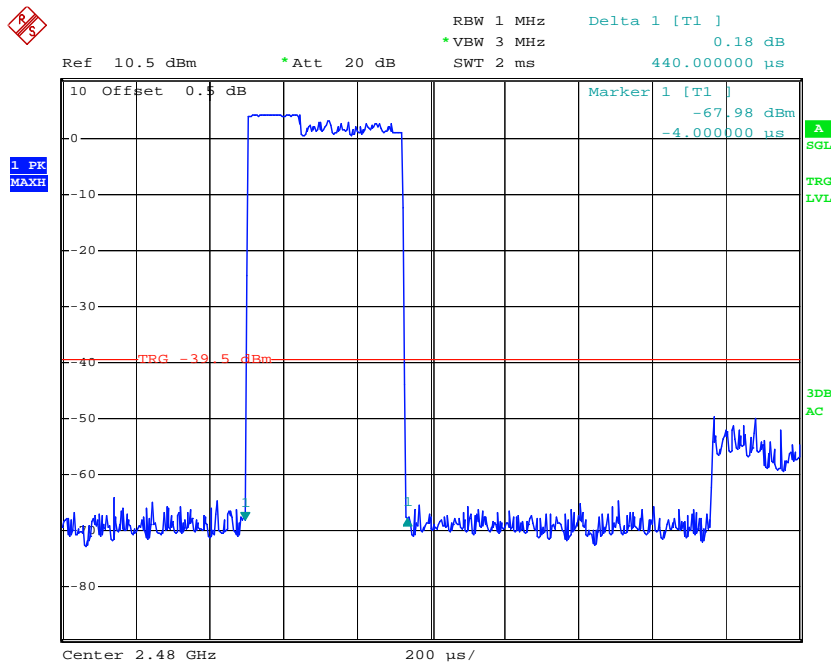
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH 1	Low	0.440	0.1408	0.4	Pass
	Middle	0.440	0.1408	0.4	Pass
	High	0.440	0.1408	0.4	Pass
	Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6s				
DH 3	Low	1.700	0.2720	0.4	Pass
	Middle	1.720	0.2752	0.4	Pass
	High	1.710	0.2736	0.4	Pass
	Note: DH3:Dwell time = Pulse time*(1600/4/79)*31.6s				
DH 5	Low	2.964	0.3162	0.4	Pass
	Middle	2.964	0.3162	0.4	Pass
	High	2.964	0.3162	0.4	Pass
	Note: DH5:Dwell time = Pulse time*(1600/6/79)*31.6s				

**Low Channel for DH1**

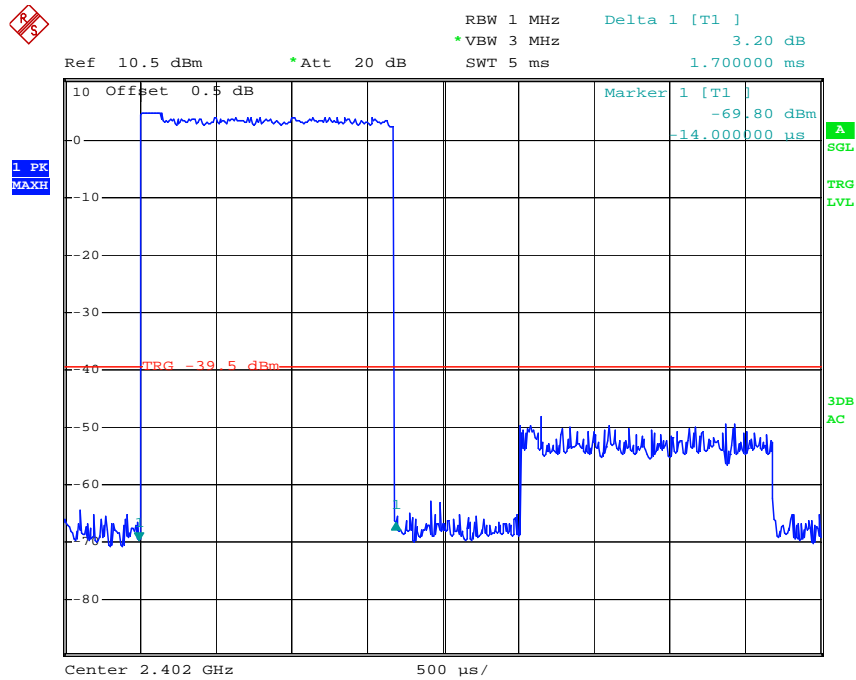
### Middle Channel for DH1



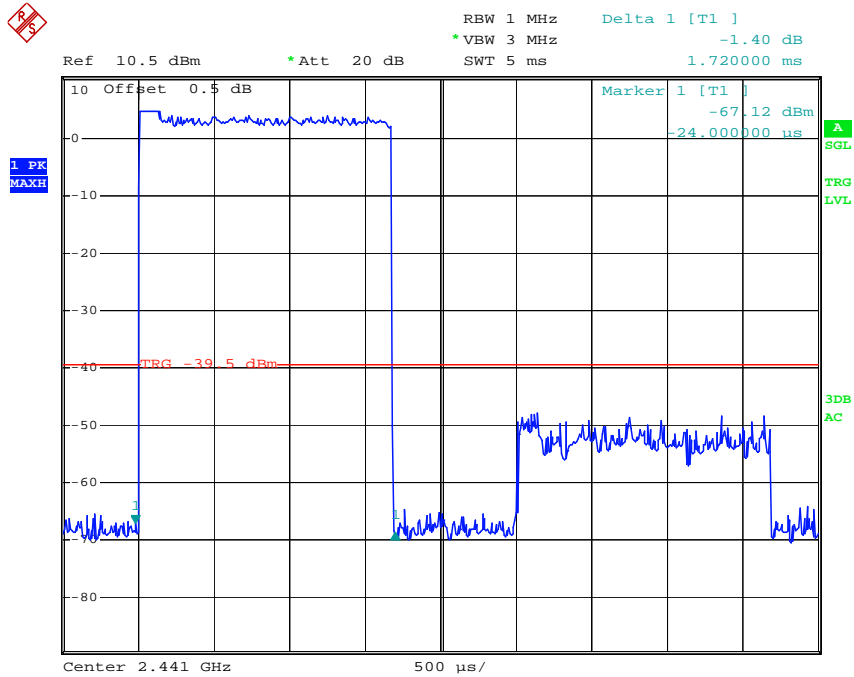
### High Channel for DH1



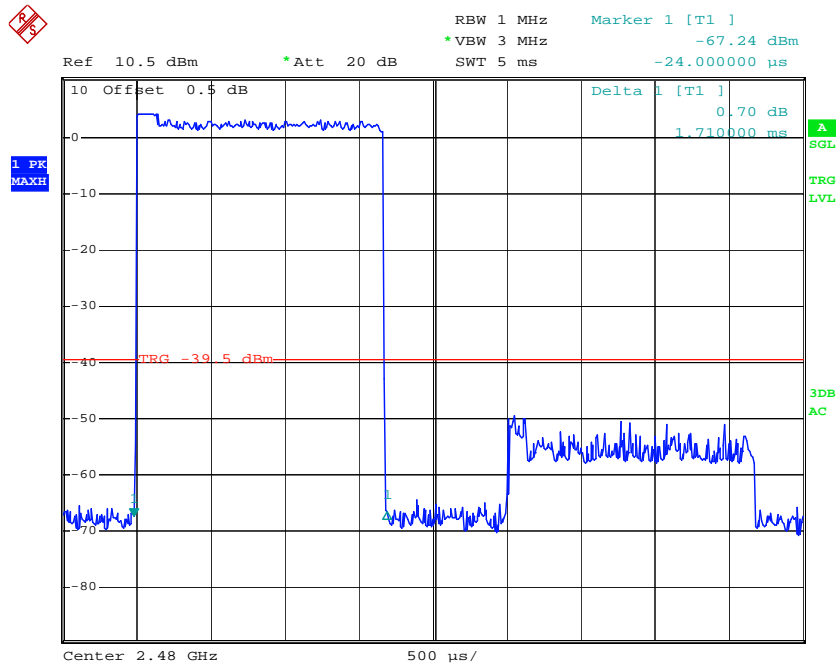
### Low Channel for DH3



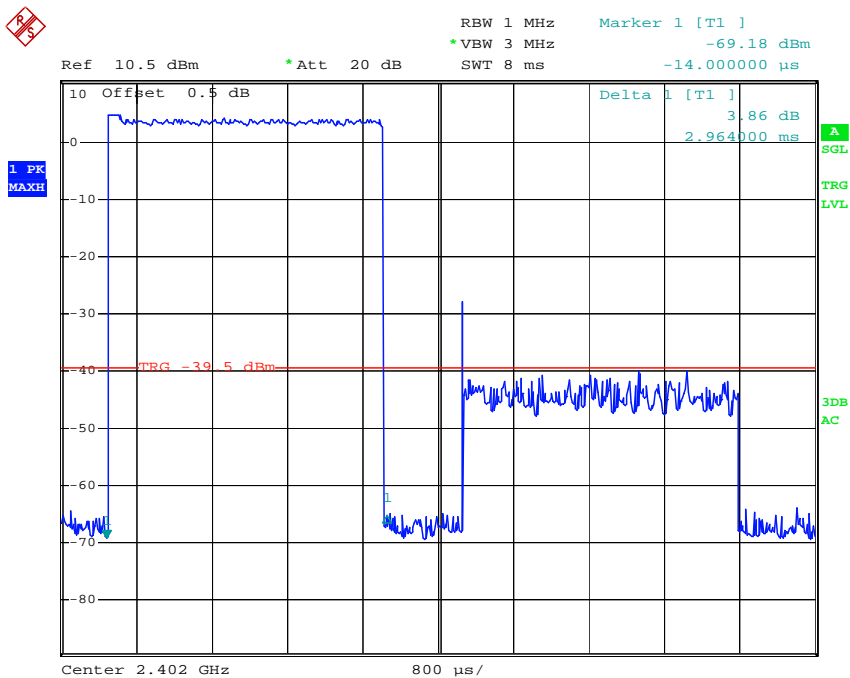
### Middle Channel for DH3



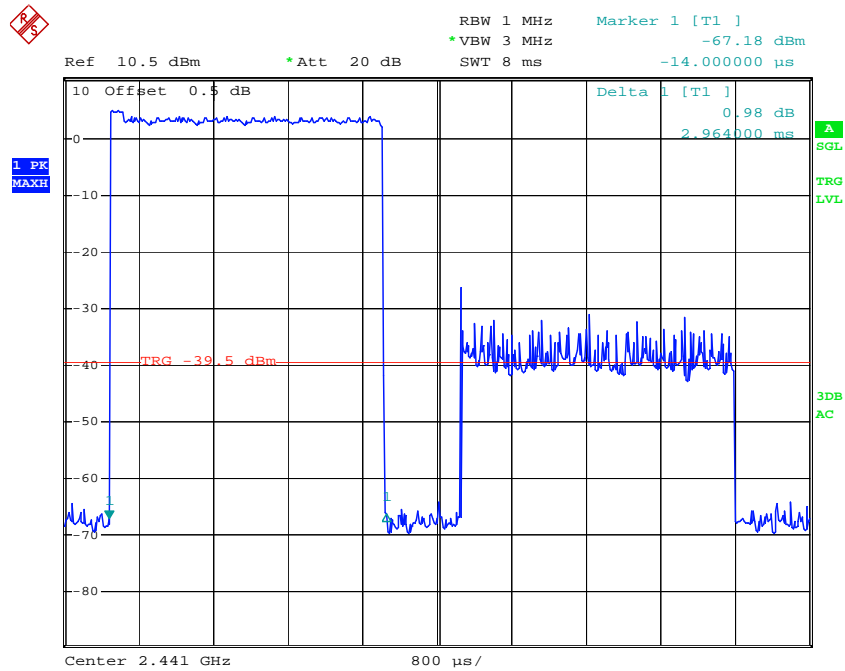
### High Channel for DH3



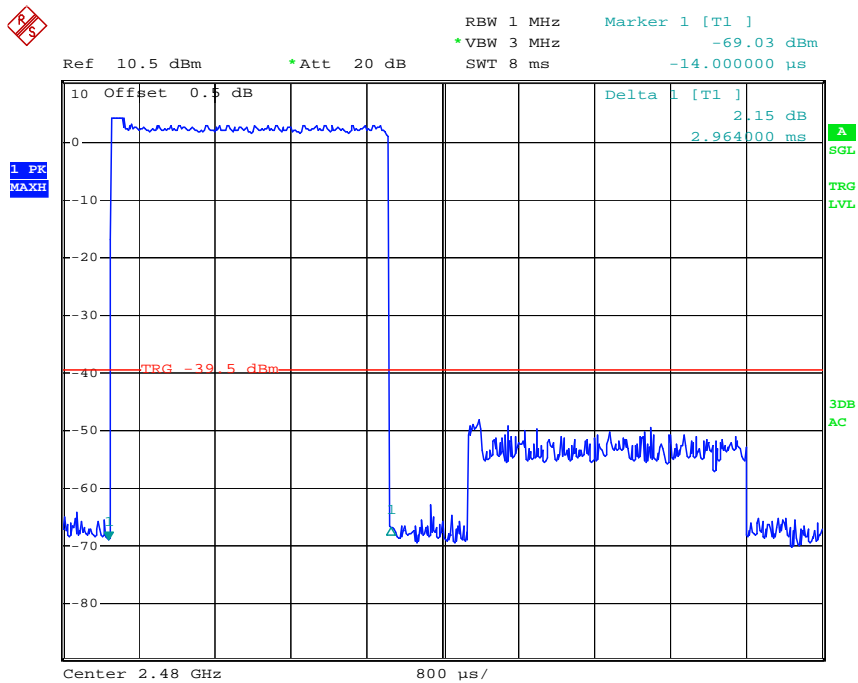
### Low Channel for DH5



### Middle Channel for DH5



### High Channel for DH5

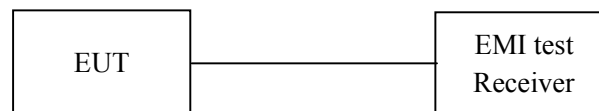


**FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT****Applicable Standard**

According to §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.

**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.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

**Test Data****Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.9kPa

\* The testing was performed by Henry Ding on 2012-01-13.

**Test Result:** Compliance.

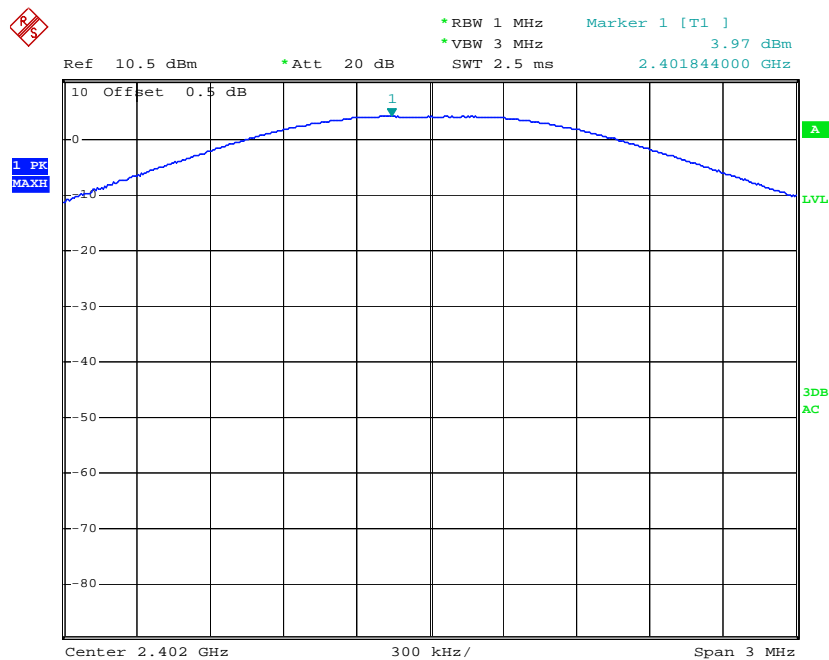
*Test Mode: Transmitting*

**BDR Mode (GFSK):**

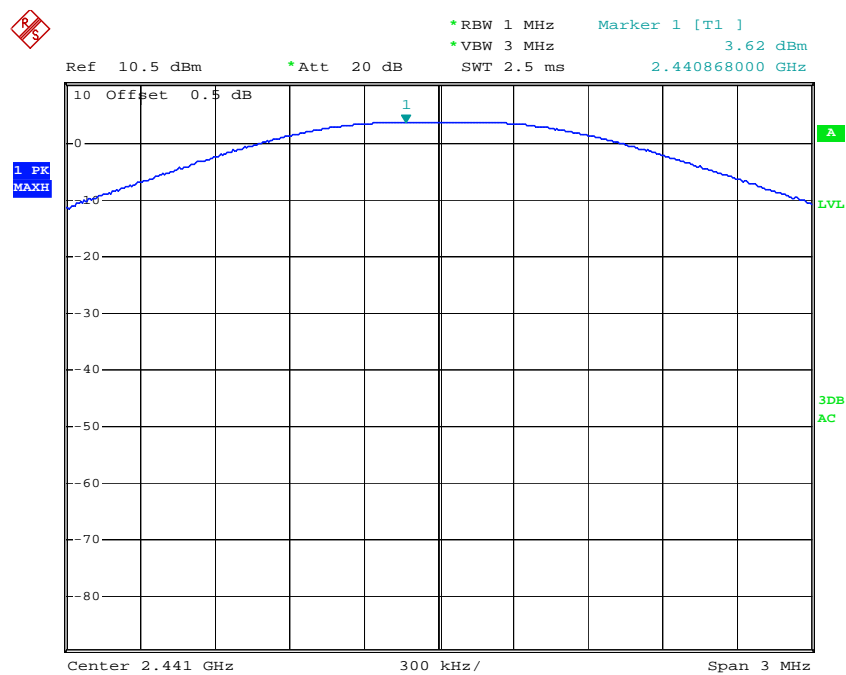
channel	Channel frequency (MHz)	Reading output power (dBm)	Output Power (mW)	Limit (mW)
Low channel	2402	3.97	2.49	1000
Middle channel	2441	3.62	2.30	1000
High channel	2480	3.21	2.09	1000

Note: The data above was tested in conducted mode.

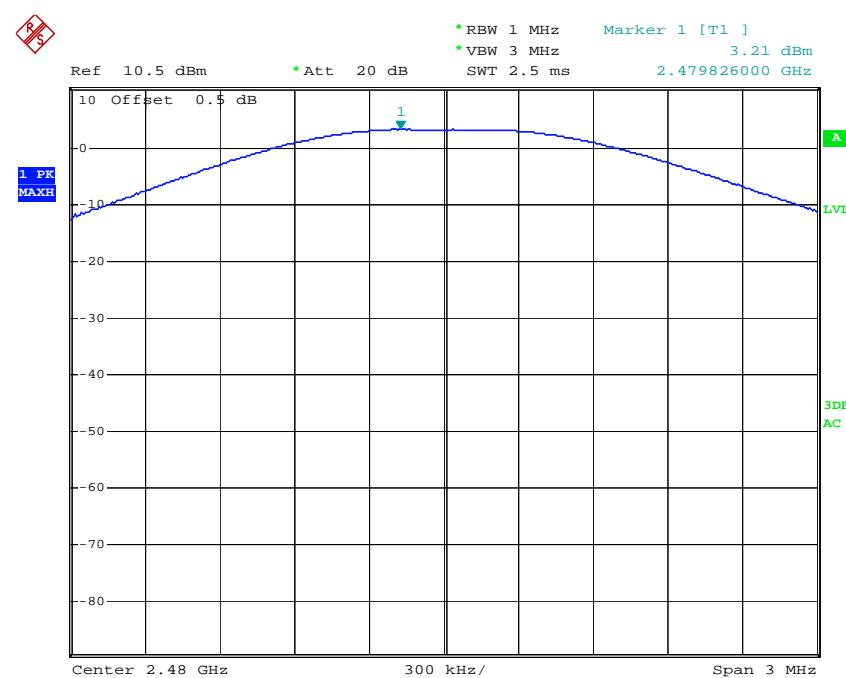
### Low Channel



Middle Channel



High Channel

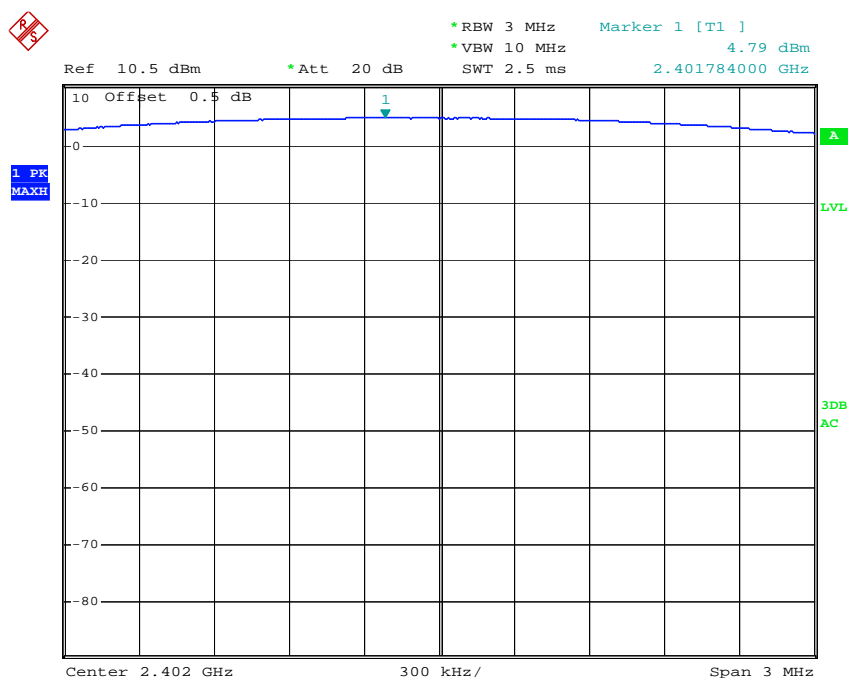




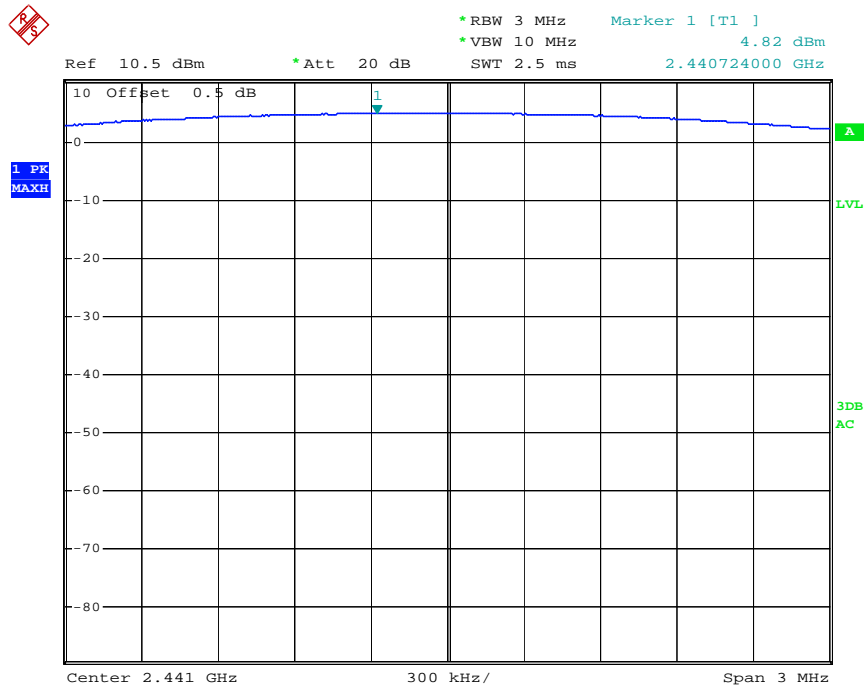
**EDR Mode ( $\pi/4$ -DQPSK):**

channel	Channel frequency (MHz)	Reading output power (dBm)	Output Power (mW)	Limit (mW)
Low channel	2402	4.79	3.013	1000
Middle channel	2441	4.82	3.034	1000
High channel	2480	4.27	2.673	1000

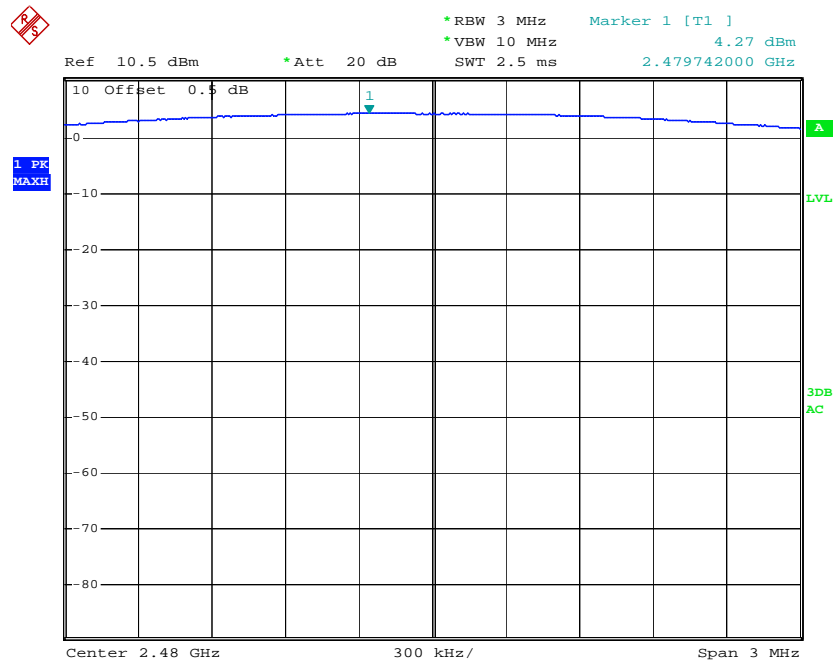
Note: The data above was tested in conducted mode.

**Low Channel**

### Middle Channel



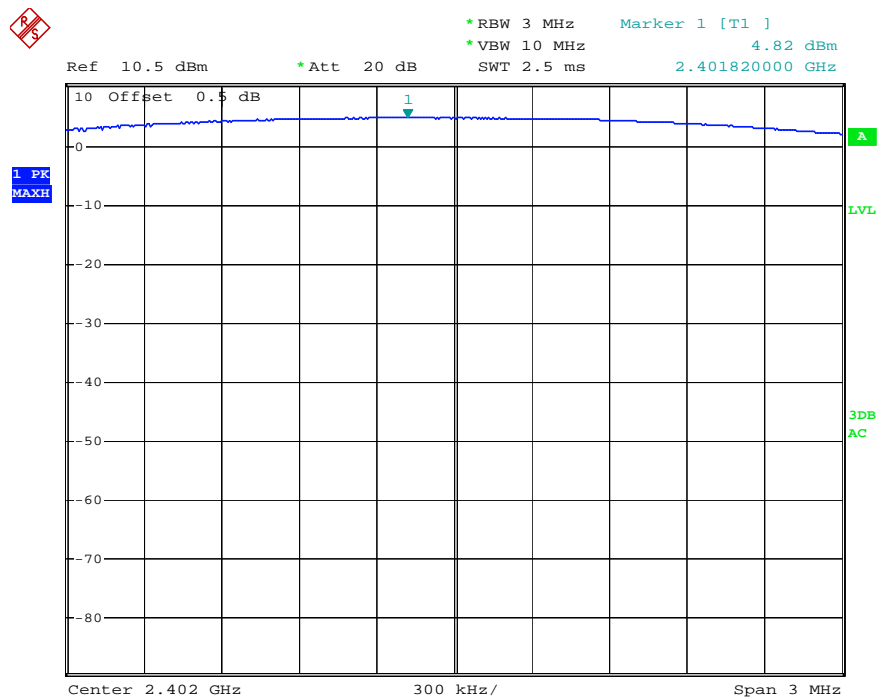
### High Channel



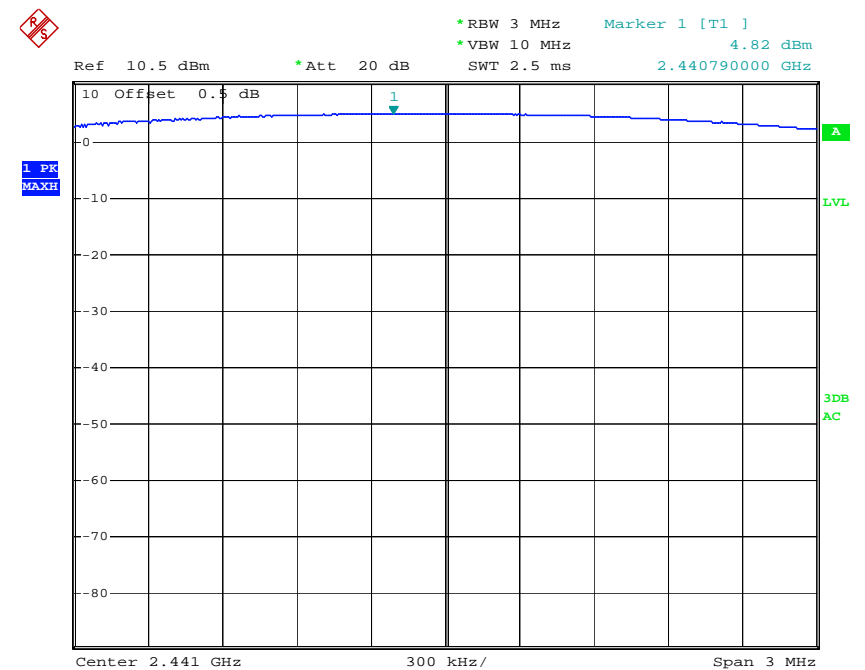
**EDR Mode (8DPSK):**

channel	Channel frequency (MHz)	Reading output power (dBm)	Output Power (mW)	Limit (mW)
Low channel	2402	4.82	3.034	1000
Middle channel	2441	4.82	3.034	1000
High channel	2480	4.21	2.636	1000

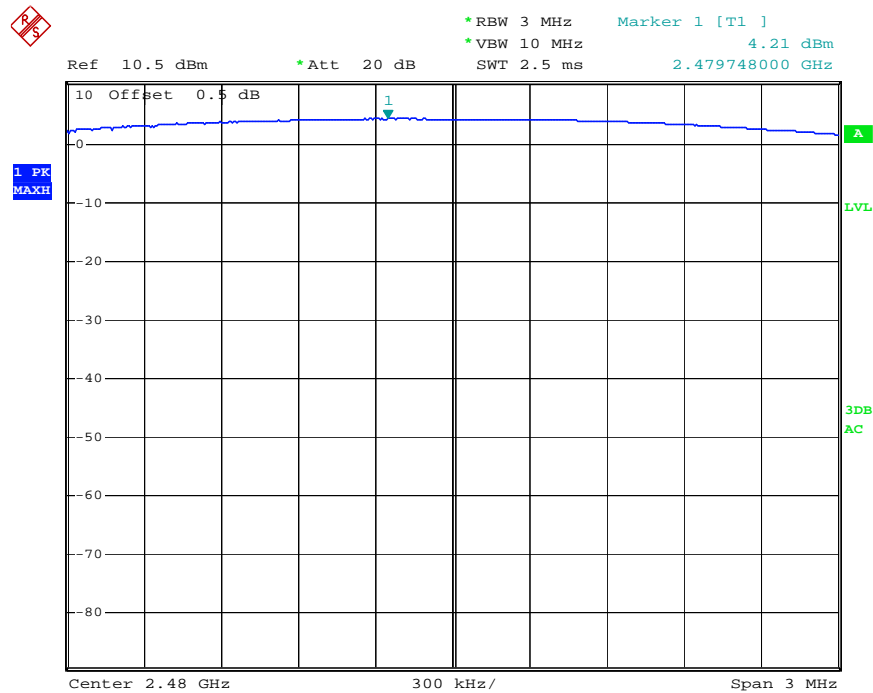
Note: The data above was tested in conducted mode.

**Low Channel**

Middle Channel



High Channel



## FCC §15.247(d) - BAND EDGES TESTING

### Applicable Standard

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. 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)).

### 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 an 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 RBW to 100 kHz and VBW to 300 kHz with a convenient frequency span.
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.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

**Test Data****Environmental Conditions**

<b>Temperature:</b>	26 °C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	100.9 kPa

*\*The testing was performed by Henry Ding on 2012-01-13.*

**Test Result:** Compliant

Please refer to the following table and plots.

*Test Mode: Transmitting*

**BDR Mode (GFSK):**

<b>BAND EDGES</b>	<b>Delta Peak to Band Emission (dBc)</b>	<b>Delta Limit (dBc)</b>
Left side	45.41	$\geq 20$
Right side	48.87	$\geq 20$

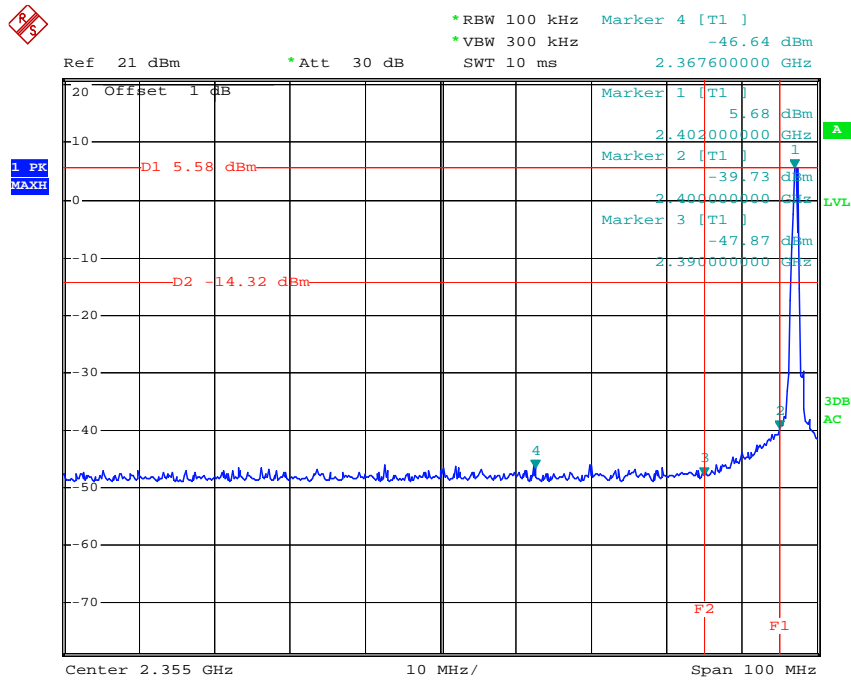
**EDR Mode ( $\pi/4$ -DQPSK):**

<b>BAND EDGES</b>	<b>Delta Peak to Band Emission (dBc)</b>	<b>Delta Limit (dBc)</b>
Left side	46.32	$\geq 20$
Right side	48.60	$\geq 20$

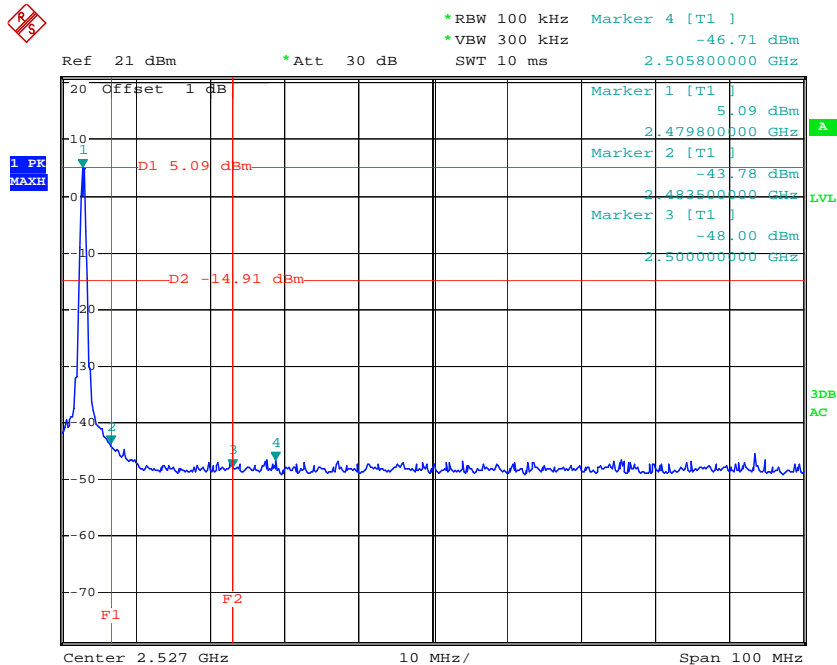
**EDR Mode (8DPSK):**

<b>BAND EDGES</b>	<b>Delta Peak to Band Emission (dBc)</b>	<b>Delta Limit (dBc)</b>
Left side	44.33	$\geq 20$
Right side	50.49	$\geq 20$

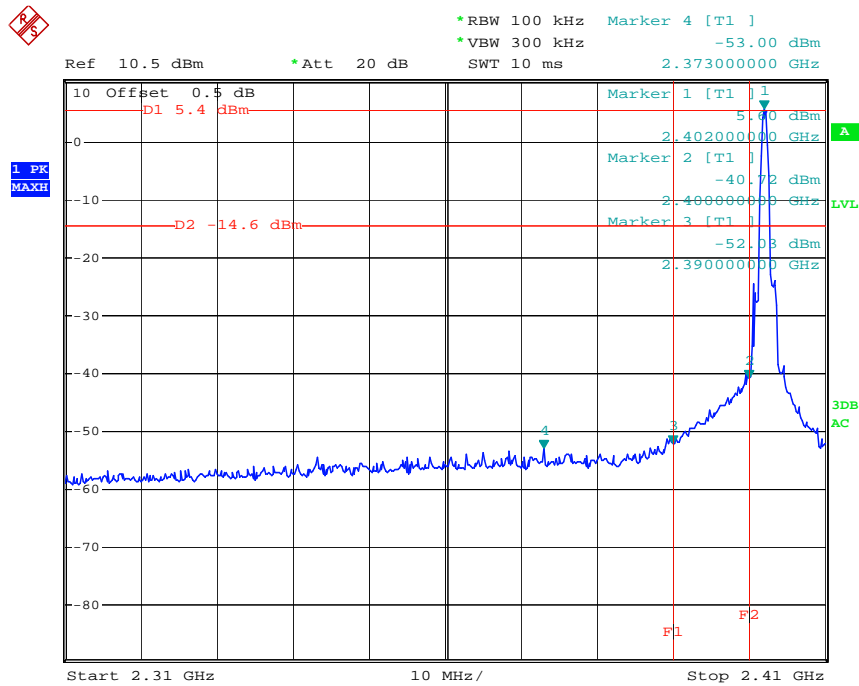
### GFSK - Band Edge: Left Side



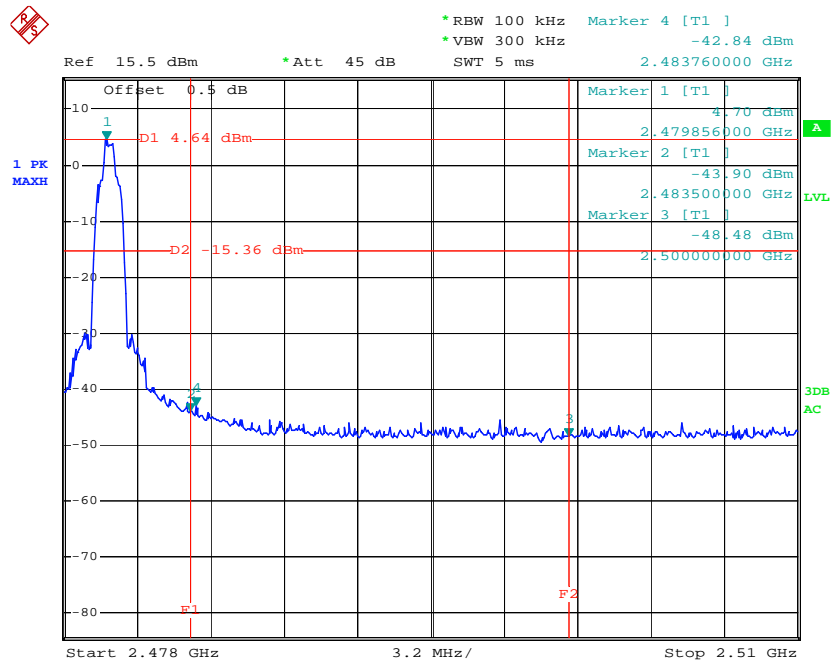
### GFSK - Band Edge: Right Side



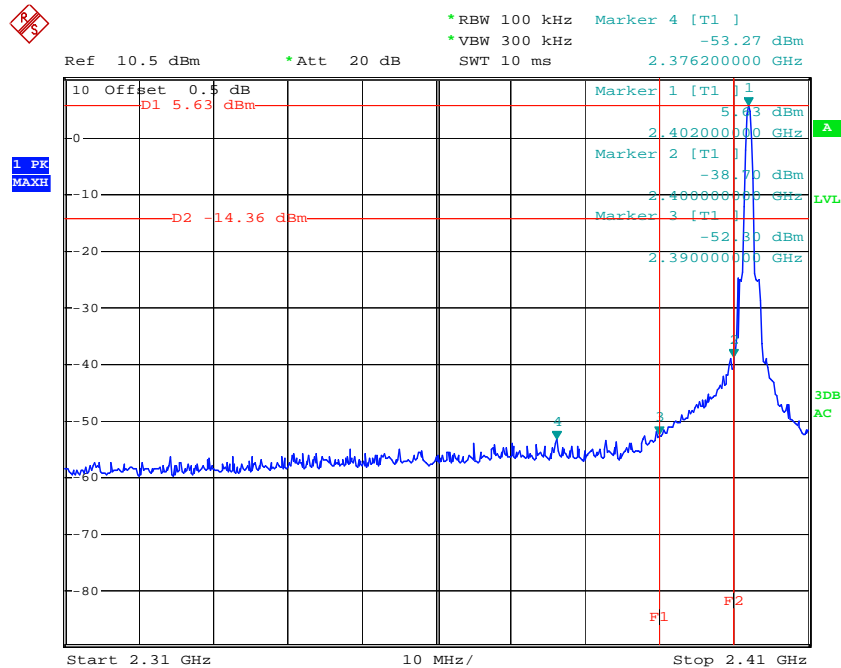
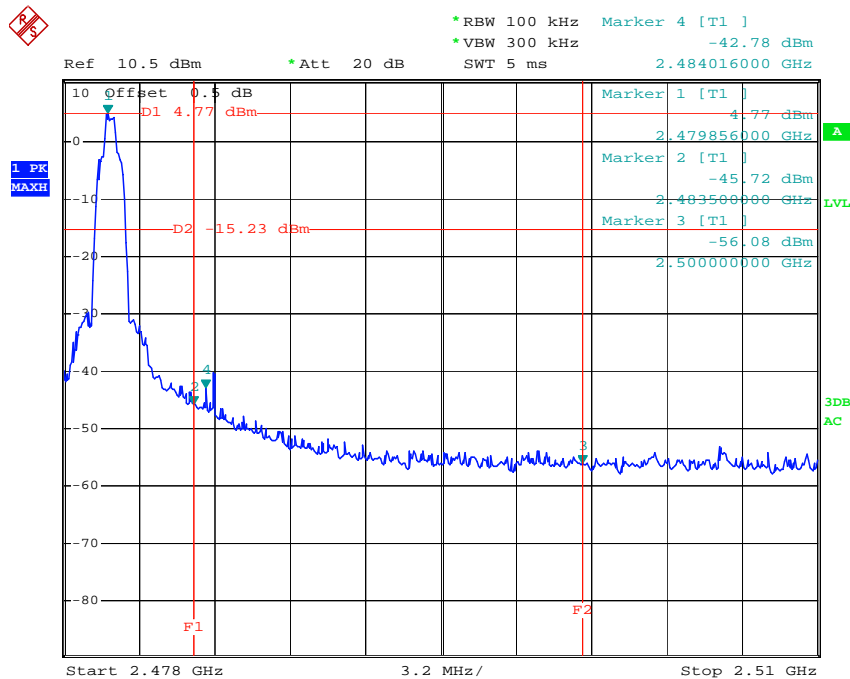
### $\pi/4$ -DQPSK - Band Edge: Left Side



### $\pi/4$ -DQPSK - Band Edge: Right Side





**8DPSK - Band Edge: Left Side****8DPSK - Band Edge: Right Side**

## **DECLARATION LETTER**

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**verykool**

Verykool USA INC.  
4350 Executive Dr.100 San Diego, CA 92121  
Tel: 001 858 373 1635  
Fax: 001 858 373 1505  
Date: 2012-01-04


### **Declaration of Similarity**

To:  
Bay Area Compliance Laboratories Corp. (Shenzhen)  
6/F, the 3rd Phase of Wan Li Industrial Bldg., Shihua Rd.,  
FuTian Free Trade Zone, Shenzhen, China  
Phone: +86 755 33320018, Fax: +86 755 33320008  
<http://www.baclcorp.com.cn>

We, Verykool USA INC. hereby declare that our product : GSM Mobile Phone, Model: I605 and I604. These two models are electrically and mechanically identical, share the same PCB Layout and components and the trade name. And the differences between them are the model number. Model: I605 was tested by BACL.

Sincerely,

Signature:  
sunny choi  
product management director



**\*\*\*\*\* END OF REPORT \*\*\*\*\***