

## FCC PART 15.247

## TEST REPORT

For

### Posh Mobile Limited

1011A, 10/F., Harbour Centre Tower 1, No. 1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

**FCC ID: 2ABN6L700**

<b>Report Type:</b> Original Report	<b>Product Type:</b> Equal Pro LTE
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<b>Report Number:</b> RDG160304003-00A	
<b>Report Date:</b> 2016-03-14	
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**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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## GENERAL INFORMATION

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

The *Posh Mobile Limited*'s product, model number: *L700A* (FCC ID: 2ABN6L700) (the "EUT") in this report was a *Equal Pro LTE*, which was measured approximately: 19.21 cm (L) x 10.15 cm (W) x 0.85 cm (H), rated input voltage: DC3.8V rechargeable Li-ion battery or DC5.0V charging from adapter.

Adapter information:

Model: A31-501000

Input: AC100-240V, 50/60 Hz 0.2A

Output: DC 5.0V, 1A

*Note: The series product, model L700A and L700 are electrically identical, the difference between them was explained in the attached declaration letter, we selected L700A for fully testing.*

*All measurement and test data in this report was gathered from production sample serial number: 160304003 (Assigned by BACL, Dongguan). The EUT was received on 2016-03-04.*

### Objective

This report is prepared on behalf of *Posh Mobile Limited* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules

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

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

FCC Part 15B JBP submissions with FCC ID: 2ABN6L700.

FCC Part 15C DTS submissions with FCC ID: 2ABN6L700.

FCC Part 22H, 24E, 27 PCE submissions with FCC ID: 2ABN6L700.

### Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications 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 February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in engineering mode.

### EUT Exercise Software

The engineering mode configured the maximum power as default setting.

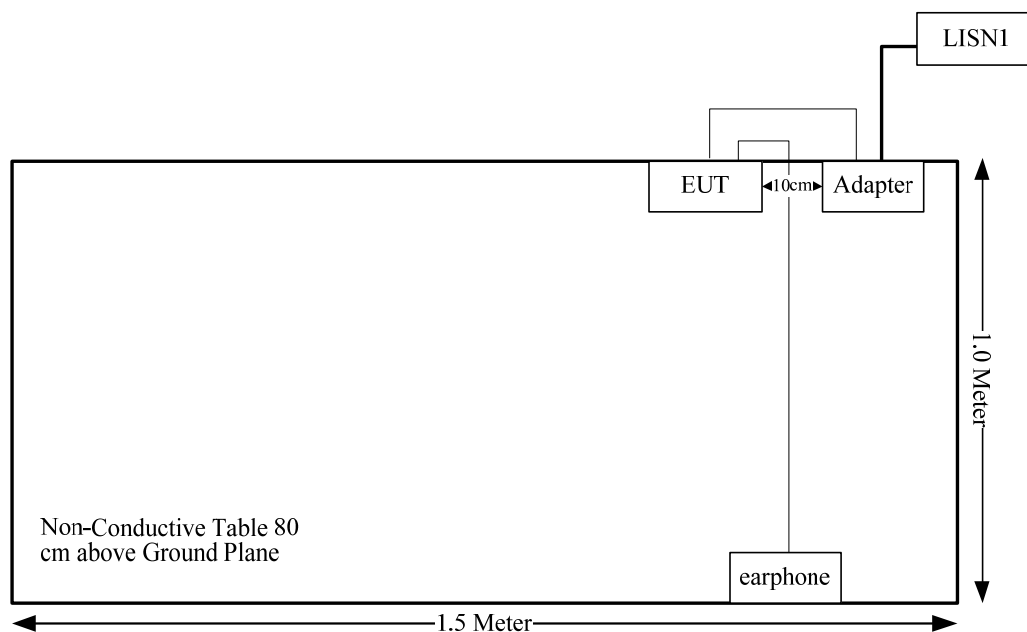
### Equipment Modifications

No modification was made to the EUT.

### External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	no	no	0.82	USB Port of Adater	EUT
Earphone Cable	no	no	1.5	Audio Port of EUT	Earphone

### Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
FCC §15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious 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

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**FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE**

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**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.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$   
 $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

**Measurement Result**

The maximum target peak output power= 6.20 dBm (4.17 mW)

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$   
 $= 4.17/5 \cdot (\sqrt{2.480}) = 1.3 < 3.0$

**So the stand-alone SAR evaluation is not necessary.**

**FCC §15.203 - ANTENNA REQUIREMENT**

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**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.

**Antenna Connector Construction**

The EUT has one internal antenna arrangement for WiFi/BT, and the antenna gain is -0.5 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

**Result:** Compliance.



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

### Applicable Standard

FCC§15.207

### Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{lab}$  is less than or equal to  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{lab}$  is greater than  $U_{cispr}$  of Table 1, then:

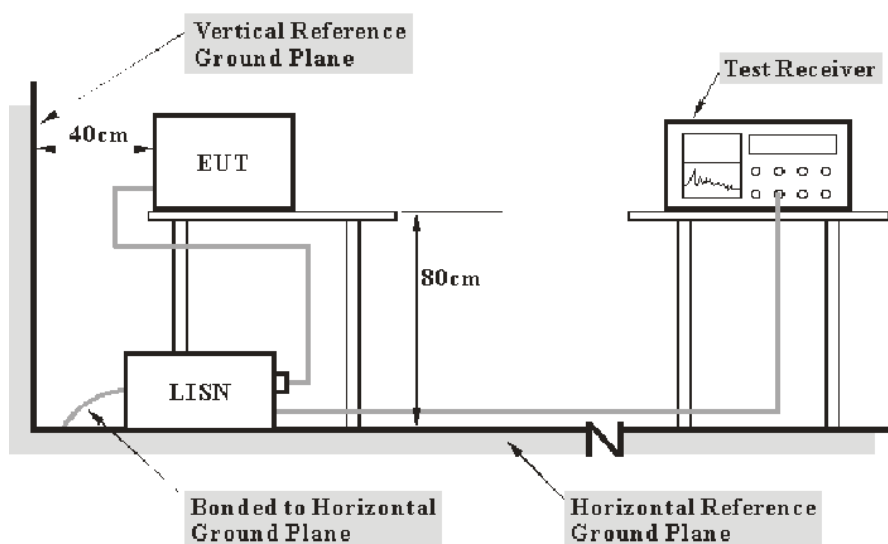
- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz).

Table 1 – Values of  $U_{cispr}$

Measurement	$U_{cispr}$
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

### 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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

### 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:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

### Test Procedure

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

### Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

$V_C$ : corrected voltage amplitude

$V_R$ : reading voltage amplitude

$A_C$ : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

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

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

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2015-10-20	2016-10-20
R&S	L.I.S.N	ESH2-Z5	892107/021	2015-07-16	2016-07-15
R&S	Two-line V-network	ENV 216	3560.6550.12	2015-11-26	2016-11-25
N/A	Coaxial Cable	1.8m	N/A	2015-05-06	2016-05-06
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**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:

**5.90 dB at 0.756101 MHz in the Neutral conducted mode**

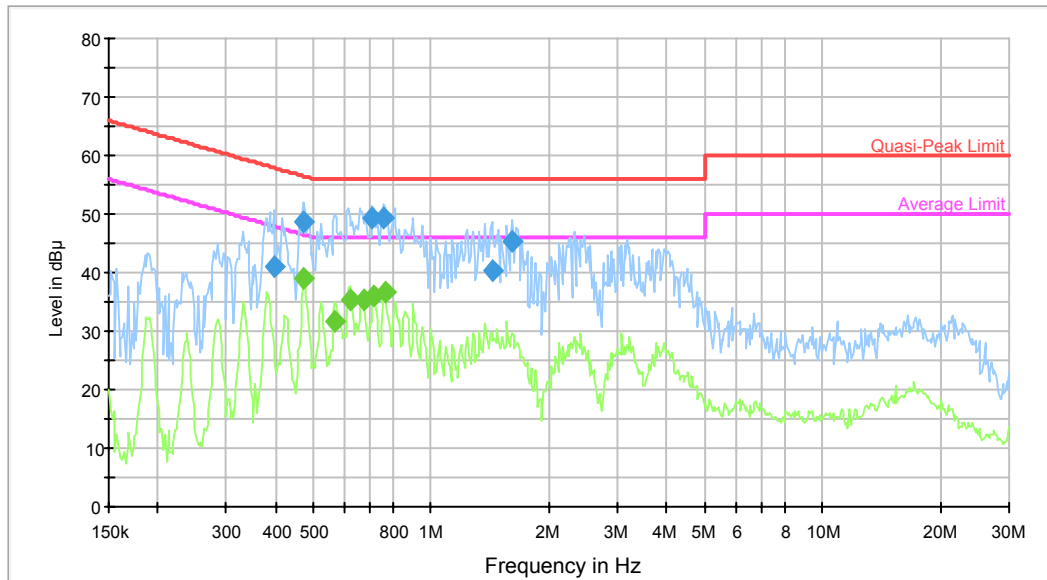
**Test Data****Environmental Conditions**

<b>Temperature:</b>	25.9°C
<b>Relative Humidity:</b>	65 %
<b>ATM Pressure:</b>	100.6 kPa

*The testing was performed by Dean Liu on 2016-03-09.*

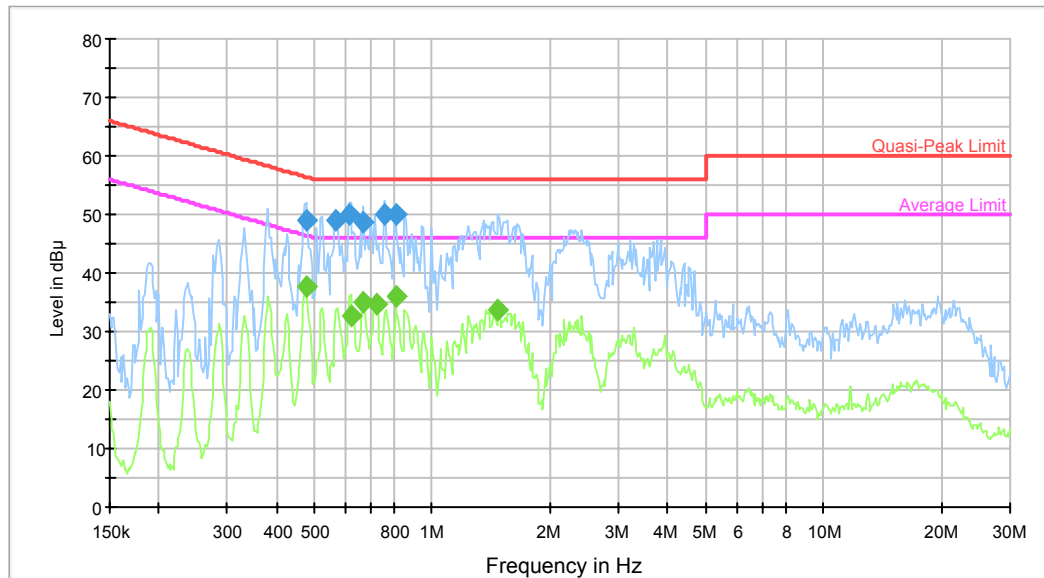
Test Mode: Transmitting

AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.396530	41.0	9.000	L1	9.8	16.9	57.9	Compliance
0.472507	48.8	9.000	L1	9.8	7.7	56.5	Compliance
0.709407	49.2	9.000	L1	9.8	6.8	56.0	Compliance
0.756101	49.2	9.000	L1	9.8	6.8	56.0	Compliance
1.430284	40.2	9.000	L1	9.8	15.8	56.0	Compliance
1.611870	45.4	9.000	L1	9.8	10.6	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.472507	39.0	9.000	L1	9.8	7.5	46.5	Compliance
0.567545	31.6	9.000	L1	9.8	14.4	46.0	Compliance
0.619536	35.2	9.000	L1	9.8	10.8	46.0	Compliance
0.670921	35.4	9.000	L1	9.8	10.6	46.0	Compliance
0.715082	36.0	9.000	L1	9.8	10.0	46.0	Compliance
0.762149	36.8	9.000	L1	9.8	9.2	46.0	Compliance

**AC120 V, 60 Hz, Neutral:**

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.476287	48.9	9.000	N	9.7	7.5	56.4	Compliance
0.567545	49.0	9.000	N	9.7	7.0	56.0	Compliance
0.614619	50.0	9.000	N	9.7	6.0	56.0	Compliance
0.665597	48.8	9.000	N	9.7	7.2	56.0	Compliance
0.756101	50.1	9.000	N	9.7	5.9	56.0	Compliance
0.805868	49.8	9.000	N	9.7	6.2	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.476287	37.8	9.000	N	9.7	8.6	46.4	Compliance
0.619536	32.7	9.000	N	9.7	13.3	46.0	Compliance
0.665597	34.9	9.000	N	9.7	11.1	46.0	Compliance
0.720803	34.6	9.000	N	9.7	11.4	46.0	Compliance
0.805868	36.1	9.000	N	9.7	9.9	46.0	Compliance
1.476605	33.7	9.000	N	9.8	12.3	46.0	Compliance

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

### Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

### Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If  $U_{lab}$  is less than or equal to  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{lab}$  is greater than  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

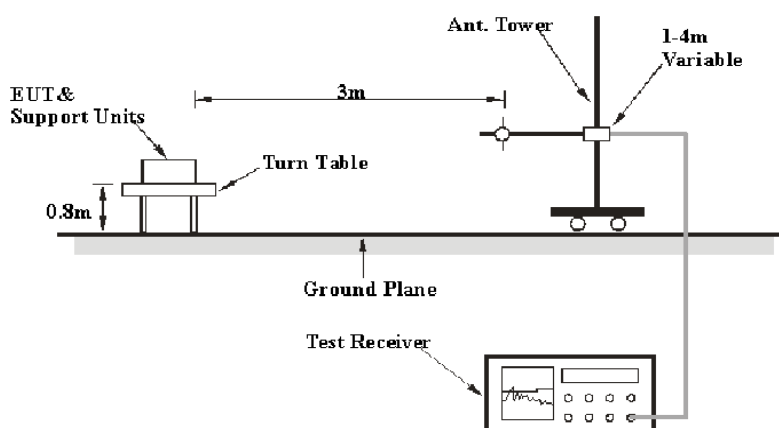
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB.

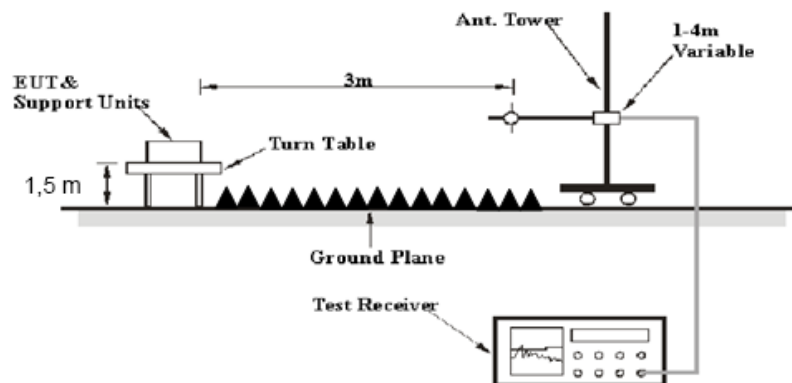
Table 2 – Values of  $U_{cispr}$

Measurement	$U_{cispr}$
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

### EUT Setup

#### Below 1GHz:



**Above 1GHz:**

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. 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.

The spacing between the peripherals was 10 cm.

**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:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	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 frequencies above 1 GHz.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2015-11-23	2016-11-22
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2015-09-06	2016-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### 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, and section 15.205, 15.209 and 15.247, with the worst margin reading of:

**8.0 dB at 236.6 MHz in the Horizontal polarization**

### Test Data

#### Environmental Conditions

Temperature:	22.8 °C
Relative Humidity:	75 %
ATM Pressure:	101 kPa

\* The testing was performed by Dean Liu on 2016-03-06.



Test Mode: Transmitting

BDR Mode (GFSK):

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC 15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	67.13	PK	H	25.65	3.66	0.00	96.44	N/A	N/A
2402	56.52	AV	H	25.65	3.66	0.00	85.83	N/A	N/A
2402	63.61	PK	V	25.65	3.66	0.00	92.92	N/A	N/A
2402	53.11	AV	V	25.65	3.66	0.00	82.42	N/A	N/A
2400	29.51	PK	H	25.64	3.65	0.00	58.80	74.00	15.20
2400	16	AV	H	25.64	3.65	0.00	45.29	54.00	8.71
4804	30.78	PK	H	30.59	5.06	27.41	39.02	74.00	34.98
4804	17.62	AV	H	30.59	5.06	27.41	25.86	54.00	28.14
7206	32.3	PK	H	34.09	6.61	25.91	47.09	74.00	26.91
7206	19.19	AV	H	34.09	6.61	25.91	33.98	54.00	20.02
9608	29.49	PK	H	35.96	8.53	27.55	46.43	74.00	27.57
9608	16.21	AV	H	35.96	8.53	27.55	33.15	54.00	20.85
2130	35.06	PK	H	24.94	3.20	27.36	35.84	74.00	38.16
2130	23.08	AV	H	24.94	3.20	27.36	23.86	54.00	30.14
236.6	45.2	QP	H	12.13	1.85	21.48	37.70	46.00	8.30
Middle Channel: 2441 MHz									
2441	67.37	PK	H	25.75	3.76	0.00	96.88	N/A	N/A
2441	56.81	AV	H	25.75	3.76	0.00	86.32	N/A	N/A
2441	63.83	PK	V	25.75	3.76	0.00	93.34	N/A	N/A
2441	53.27	AV	V	25.75	3.76	0.00	82.78	N/A	N/A
4882	30.9	PK	H	30.79	5.19	27.42	39.46	74.00	34.54
4882	17.77	AV	H	30.79	5.19	27.42	26.33	54.00	27.67
7323	32.55	PK	H	34.38	6.75	25.88	47.80	74.00	26.20
7323	19.43	AV	H	34.38	6.75	25.88	34.68	54.00	19.32
9764	29.53	PK	H	36.33	8.62	27.20	47.28	74.00	26.72
9764	16.26	AV	H	36.33	8.62	27.20	34.01	54.00	19.99
2130	35.29	PK	H	24.94	3.20	27.36	36.07	74.00	37.93
2130	22.97	AV	H	24.94	3.20	27.36	23.75	54.00	30.25
3117	32.11	PK	H	27.57	6.89	27.44	39.13	74.00	34.87
3117	19.86	AV	H	27.57	6.89	27.44	26.88	54.00	27.12
236.6	45.5	QP	H	12.13	1.85	21.48	38.00	46.00	8.00
High Channel: 2480 MHz									
2480	67.57	PK	H	25.85	3.68	0.00	97.10	N/A	N/A
2480	56.88	AV	H	25.85	3.68	0.00	86.41	N/A	N/A
2480	64.06	PK	V	25.85	3.68	0.00	93.59	N/A	N/A
2480	53.38	AV	V	25.85	3.68	0.00	82.91	N/A	N/A
2483.5	26.69	PK	H	25.86	3.67	0.00	56.22	74.00	17.78
2483.5	13.48	AV	H	25.86	3.67	0.00	43.01	54.00	10.99
4960	31.01	PK	H	31.00	5.34	27.43	39.92	74.00	34.08
4960	17.93	AV	H	31.00	5.34	27.43	26.84	54.00	27.16
7440	32.82	PK	H	34.66	6.89	25.97	48.40	74.00	25.60
7440	19.67	AV	H	34.66	6.89	25.97	35.25	54.00	18.75
9920	29.57	PK	H	36.71	8.71	26.66	48.33	74.00	25.67
9920	16.3	AV	H	36.71	8.71	26.66	35.06	54.00	18.94
2130	35.33	PK	H	24.94	3.20	27.36	36.11	74.00	37.89
2130	23.01	AV	H	24.94	3.20	27.36	23.79	54.00	30.21
236.6	45.1	OP	H	12.13	1.85	21.48	37.60	46.00	8.40

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

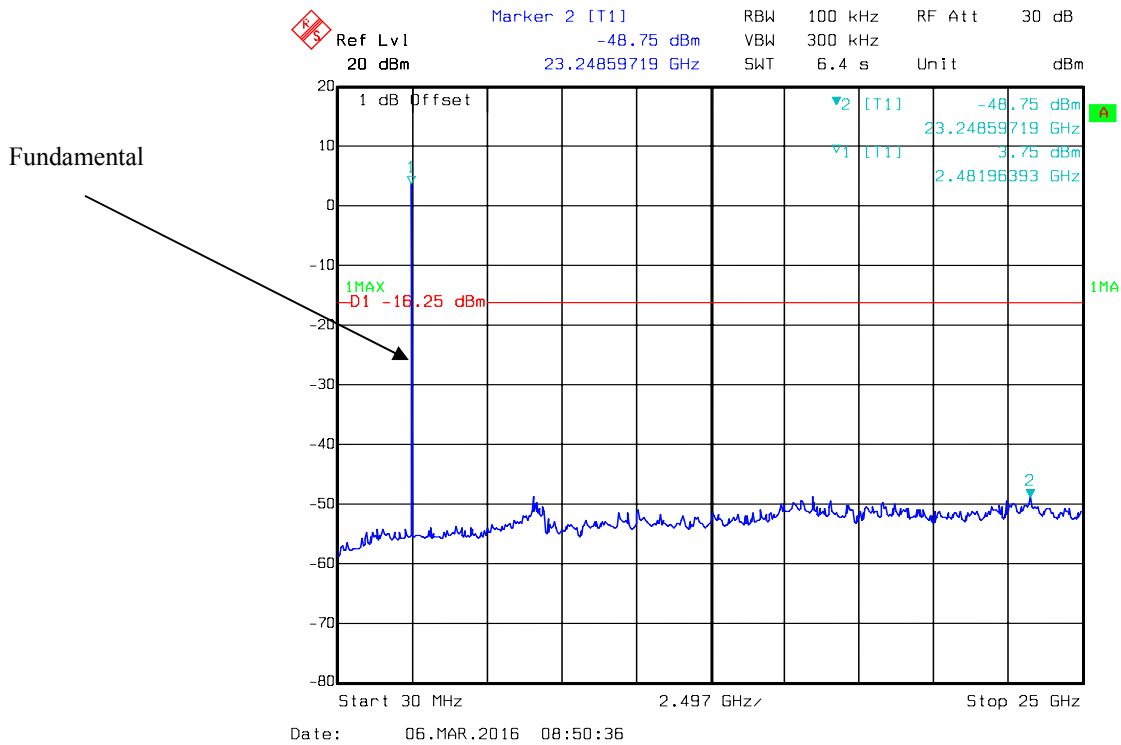
Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC 15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	65.26	PK	H	25.65	3.66	0.00	94.57	N/A	N/A
2402	53.81	AV	H	25.65	3.66	0.00	83.12	N/A	N/A
2402	61.74	PK	V	25.65	3.66	0.00	91.05	N/A	N/A
2402	50.31	AV	V	25.65	3.66	0.00	79.62	N/A	N/A
2400	33.09	PK	H	25.64	3.65	0.00	62.38	74.00	11.62
2400	14.71	AV	H	25.64	3.65	0.00	44.00	54.00	10.00
4804	30.4	PK	H	30.59	5.06	27.41	38.64	74.00	35.36
4804	17.13	AV	H	30.59	5.06	27.41	25.37	54.00	28.63
7206	31.29	PK	H	34.09	6.61	25.91	46.08	74.00	27.92
7206	18.25	AV	H	34.09	6.61	25.91	33.04	54.00	20.96
9608	29.31	PK	H	35.96	8.53	27.55	46.25	74.00	27.75
9608	16.08	AV	H	35.96	8.53	27.55	33.02	54.00	20.98
2130	35.2	PK	H	24.94	3.20	27.36	35.98	74.00	38.02
2130	22.97	AV	H	24.94	3.20	27.36	23.75	54.00	30.25
236.6	44.5	QP	H	12.13	1.85	21.48	37.00	46.00	9.00
Middle Channel: 2441 MHz									
2441	65.36	PK	H	25.75	3.76	0.00	94.87	N/A	N/A
2441	54	AV	H	25.75	3.76	0.00	83.51	N/A	N/A
2441	61.84	PK	V	25.75	3.76	0.00	91.35	N/A	N/A
2441	50.45	AV	V	25.75	3.76	0.00	79.96	N/A	N/A
4882	30.53	PK	H	30.79	5.19	27.42	39.09	74.00	34.91
4882	17.3	AV	H	30.79	5.19	27.42	25.86	54.00	28.14
7323	31.57	PK	H	34.38	6.75	25.88	46.82	74.00	27.18
7323	18.49	AV	H	34.38	6.75	25.88	33.74	54.00	20.26
9764	29.37	PK	H	36.33	8.62	27.20	47.12	74.00	26.88
9764	16.13	AV	H	36.33	8.62	27.20	33.88	54.00	20.12
2130	35.18	PK	H	24.94	3.20	27.36	35.96	74.00	38.04
2130	22.72	AV	H	24.94	3.20	27.36	23.50	54.00	30.50
3117	32.25	PK	H	27.57	6.89	27.44	39.27	74.00	34.73
3117	19.67	AV	H	27.57	6.89	27.44	26.69	54.00	27.31
236.6	44.3	QP	H	12.13	1.85	21.48	36.80	46.00	9.20
High Channel: 2480 MHz									
2480	65.41	PK	H	25.85	3.68	0.00	94.94	N/A	N/A
2480	53.85	AV	H	25.85	3.68	0.00	83.38	N/A	N/A
2480	61.9	PK	V	25.85	3.68	0.00	91.43	N/A	N/A
2480	50.31	AV	V	25.85	3.68	0.00	79.84	N/A	N/A
2483.5	26.93	PK	H	25.86	3.67	0.00	56.46	74.00	17.54
2483.5	13.51	AV	H	25.86	3.67	0.00	43.04	54.00	10.96
4960	30.65	PK	H	31.00	5.34	27.43	39.56	74.00	34.44
4960	17.48	AV	H	31.00	5.34	27.43	26.39	54.00	27.61
7440	31.82	PK	H	34.66	6.89	25.97	47.40	74.00	26.60
7440	18.71	AV	H	34.66	6.89	25.97	34.29	54.00	19.71
9920	29.43	PK	H	36.71	8.71	26.66	48.19	74.00	25.81
9920	16.16	AV	H	36.71	8.71	26.66	34.92	54.00	19.08
2130	35.28	PK	H	24.94	3.20	27.36	36.06	74.00	37.94
2130	22.94	AV	H	24.94	3.20	27.36	23.72	54.00	30.28
236.6	44.2	QP	H	12.13	1.85	21.48	36.70	46.00	9.30

*EDR Mode (8-DPSK):*

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	FCC 15.247	
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)				Limit (dBμV/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	65.53	PK	H	25.65	3.66	0.00	94.84	N/A	N/A
2402	53.15	AV	H	25.65	3.66	0.00	82.46	N/A	N/A
2402	62.01	PK	V	25.65	3.66	0.00	91.32	N/A	N/A
2402	49.65	AV	V	25.65	3.66	0.00	78.96	N/A	N/A
2400	32.82	PK	H	25.64	3.65	0.00	62.11	74.00	11.89
2400	13.92	AV	H	25.64	3.65	0.00	43.21	54.00	10.79
4804	30.79	PK	H	30.59	5.06	27.41	39.03	74.00	34.97
4804	17.6	AV	H	30.59	5.06	27.41	25.84	54.00	28.16
7206	32.05	PK	H	34.09	6.61	25.91	46.84	74.00	27.16
7206	19	AV	H	34.09	6.61	25.91	33.79	54.00	20.21
9608	29.6	PK	H	35.96	8.53	27.55	46.54	74.00	27.46
9608	16.34	AV	H	35.96	8.53	27.55	33.28	54.00	20.72
2130	35.3	PK	H	24.94	3.20	27.36	36.08	74.00	37.92
2130	23.09	AV	H	24.94	3.20	27.36	23.87	54.00	30.13
236.6	44.1	QP	H	12.13	1.85	21.48	36.60	46.00	9.40
Middle Channel: 2441 MHz									
2441	65.66	PK	H	25.75	3.76	0.00	95.17	N/A	N/A
2441	53.27	AV	H	25.75	3.76	0.00	82.78	N/A	N/A
2441	62.2	PK	V	25.75	3.76	0.00	91.71	N/A	N/A
2441	49.73	AV	V	25.75	3.76	0.00	79.24	N/A	N/A
4882	30.93	PK	H	30.79	5.19	27.42	39.49	74.00	34.51
4882	17.72	AV	H	30.79	5.19	27.42	26.28	54.00	27.72
7323	32.27	PK	H	34.38	6.75	25.88	47.52	74.00	26.48
7323	19.23	AV	H	34.38	6.75	25.88	34.48	54.00	19.52
9764	29.76	PK	H	36.33	8.62	27.20	47.51	74.00	26.49
9764	16.52	AV	H	36.33	8.62	27.20	34.27	54.00	19.73
2130	35.57	PK	H	24.94	3.20	27.36	36.35	74.00	37.65
2130	22.83	AV	H	24.94	3.20	27.36	23.61	54.00	30.39
3117	32.07	PK	H	27.57	6.89	27.44	39.09	74.00	34.91
3117	20.03	AV	H	27.57	6.89	27.44	27.05	54.00	26.95
236.6	44.2	QP	H	12.13	1.85	21.48	36.70	46.00	9.30
High Channel: 2480 MHz									
2480	65.7	PK	H	25.85	3.68	0.00	95.23	N/A	N/A
2480	53.33	AV	H	25.85	3.68	0.00	82.86	N/A	N/A
2480	62.23	PK	V	25.85	3.68	0.00	91.76	N/A	N/A
2480	49.84	AV	V	25.85	3.68	0.00	79.37	N/A	N/A
2483.5	27.38	PK	H	25.86	3.67	0.00	56.91	74.00	17.09
2483.5	13.47	AV	H	25.86	3.67	0.00	43.00	54.00	11.00
4960	31.07	PK	H	31.00	5.34	27.43	39.98	74.00	34.02
4960	17.87	AV	H	31.00	5.34	27.43	26.78	54.00	27.22
7440	32.51	PK	H	34.66	6.89	25.97	48.09	74.00	25.91
7440	19.52	AV	H	34.66	6.89	25.97	35.10	54.00	18.90
9920	29.93	PK	H	36.71	8.71	26.66	48.69	74.00	25.31
9920	16.68	AV	H	36.71	8.71	26.66	35.44	54.00	18.56
2130	35.27	PK	H	24.94	3.20	27.36	36.05	74.00	37.95
2130	23.09	AV	H	24.94	3.20	27.36	23.87	54.00	30.13
236.6	44.8	OP	H	12.13	1.85	21.48	37.30	46.00	8.70

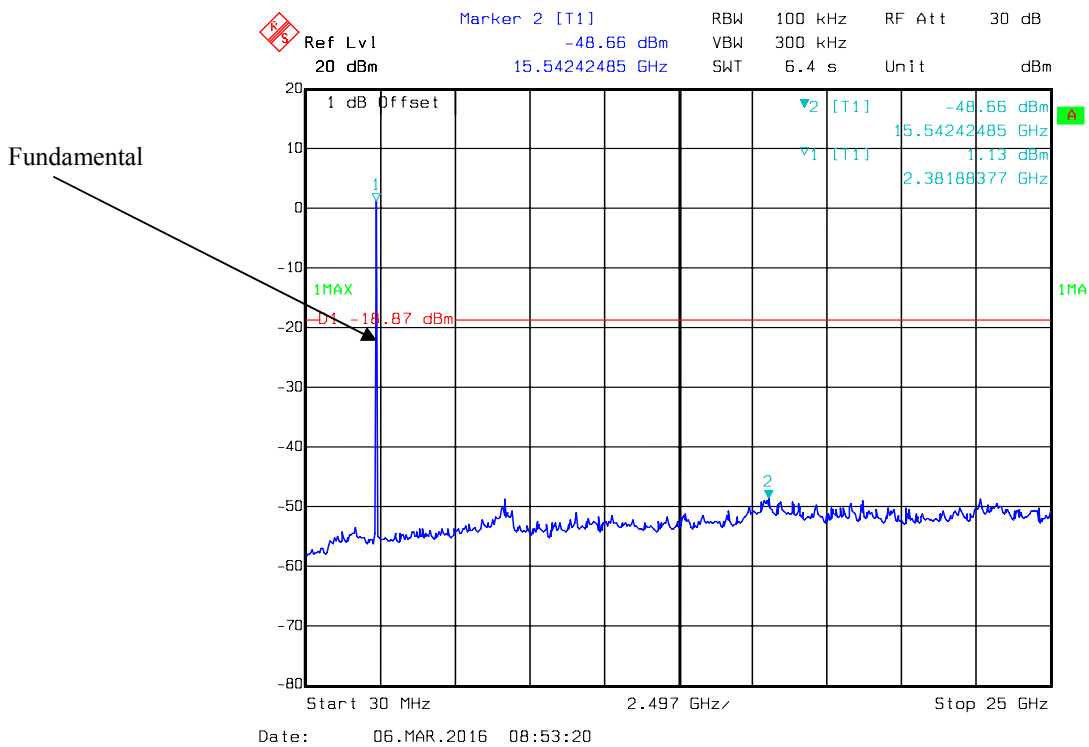


### High Channel

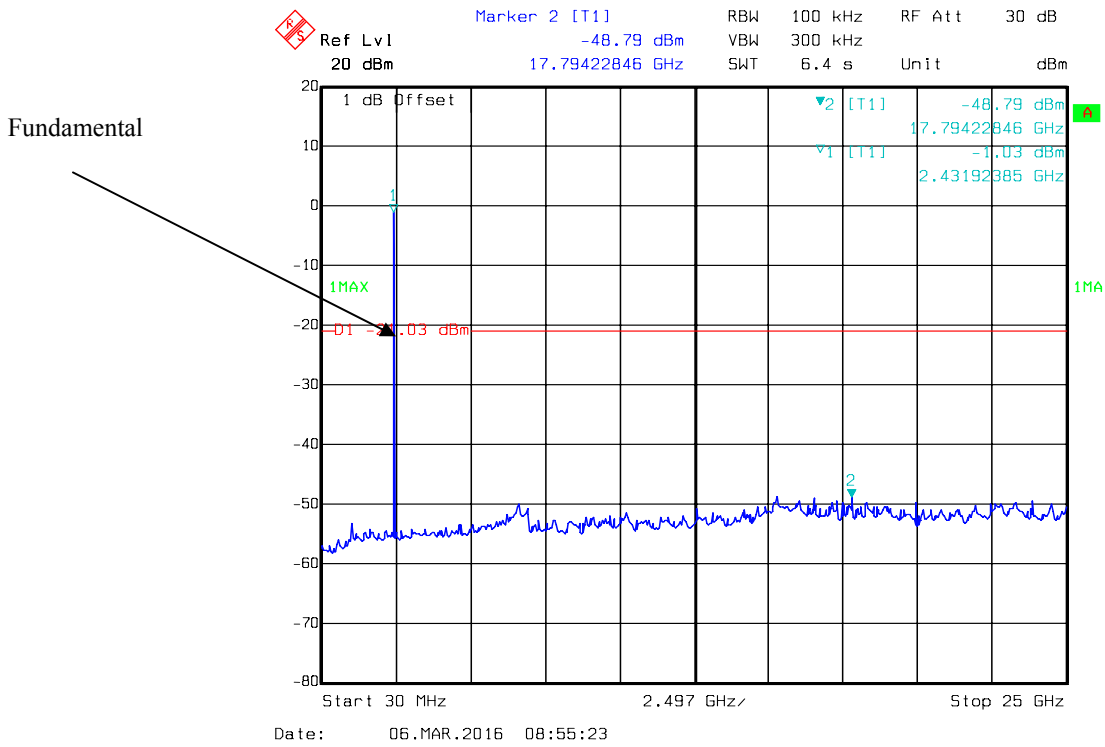


EDR Mode ( $\pi/4$ -DQPSK):

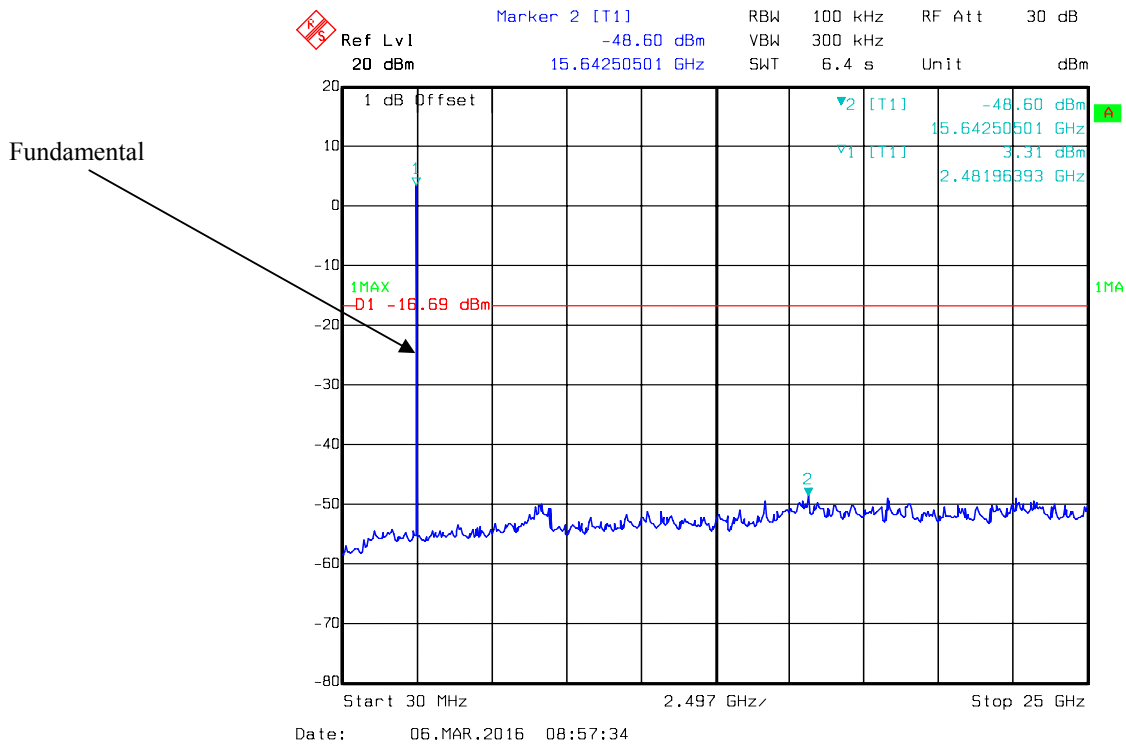
### Low Channel



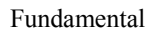
### Middle Channel



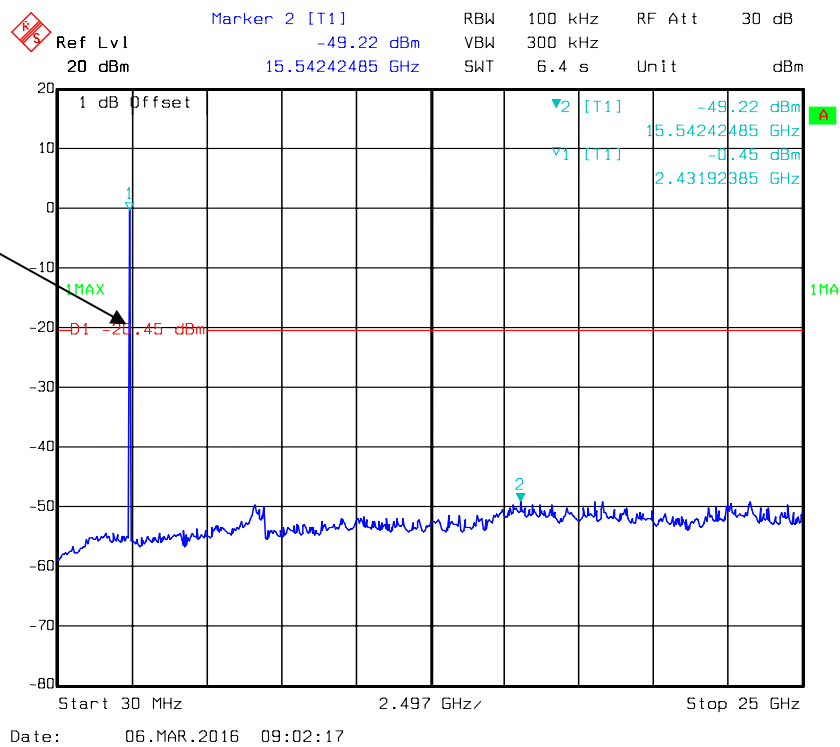
### High Channel



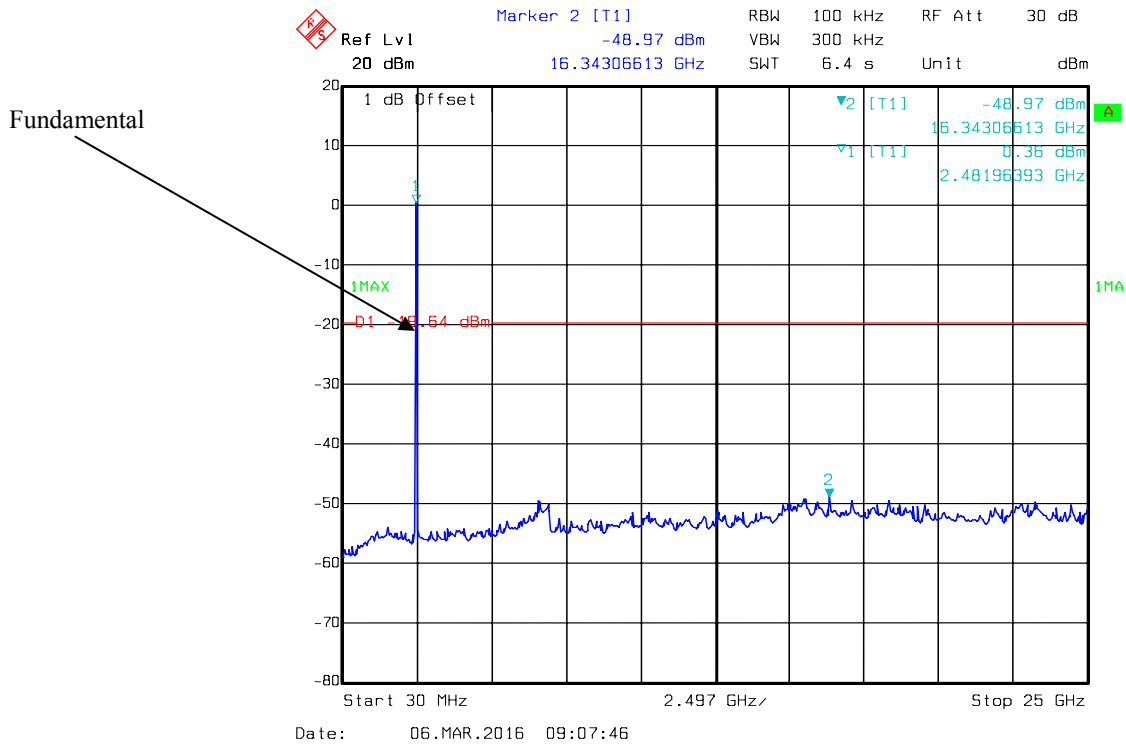
## Low Channel



## Fundamental



### High Channel





## 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
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### 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.

### Test Data

#### Environmental Conditions

Temperature:	22.8 °C
Relative Humidity:	75 %
ATM Pressure:	101 kPa

\* The testing was performed by Dean Liu on 2016-03-06.

**Test Result:** Compliance.

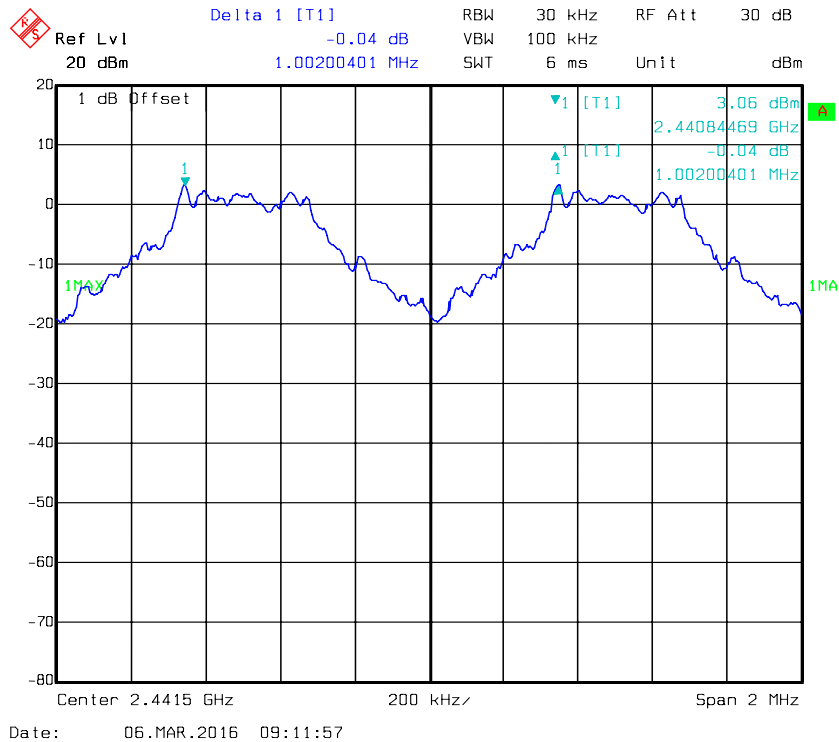
Please refer to following tables and plots

Mode	Channel	Frequency	Channel Separation	Limit	Result
		MHz	MHz	MHz	
<i>BDR</i> ( <i>GFSK</i> )	Low	2402	1.006	0.63	Compliance
	Middle	2441	1.002		
	High	2480	1.002		
<i>EDR</i> ( $\pi/4$ - <i>DQPSK</i> )	Low	2402	1.002	0.84	Compliance
	Middle	2441	1.006		
	High	2480	1.002		
<i>EDR</i> ( <i>8DPSK</i> )	Low	2402	1.006	0.85	Compliance
	Middle	2441	1.002		
	High	2480	1.002		

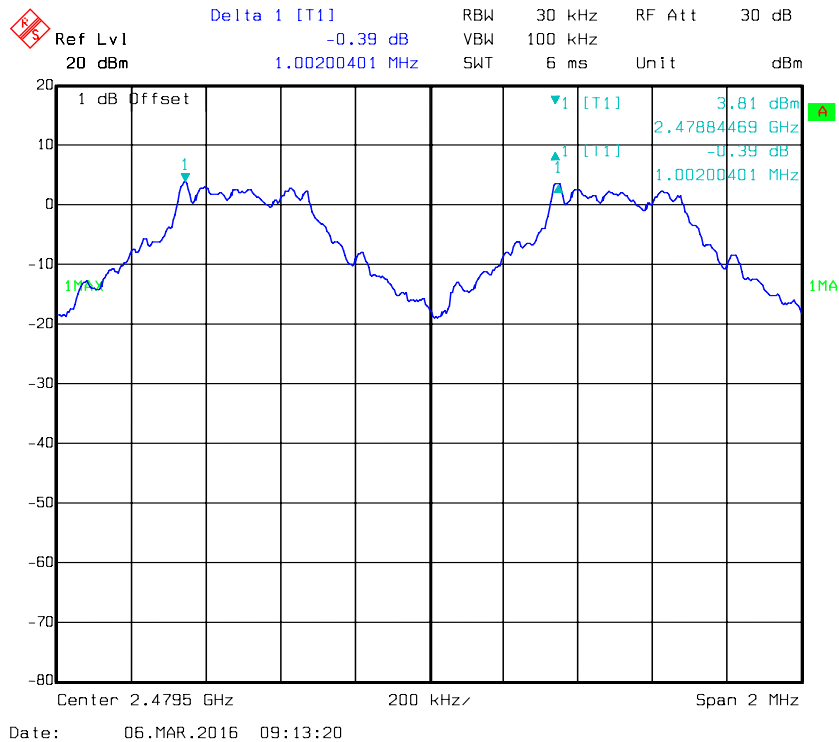
*BDR Mode (GFSK):*



### Middle Channel

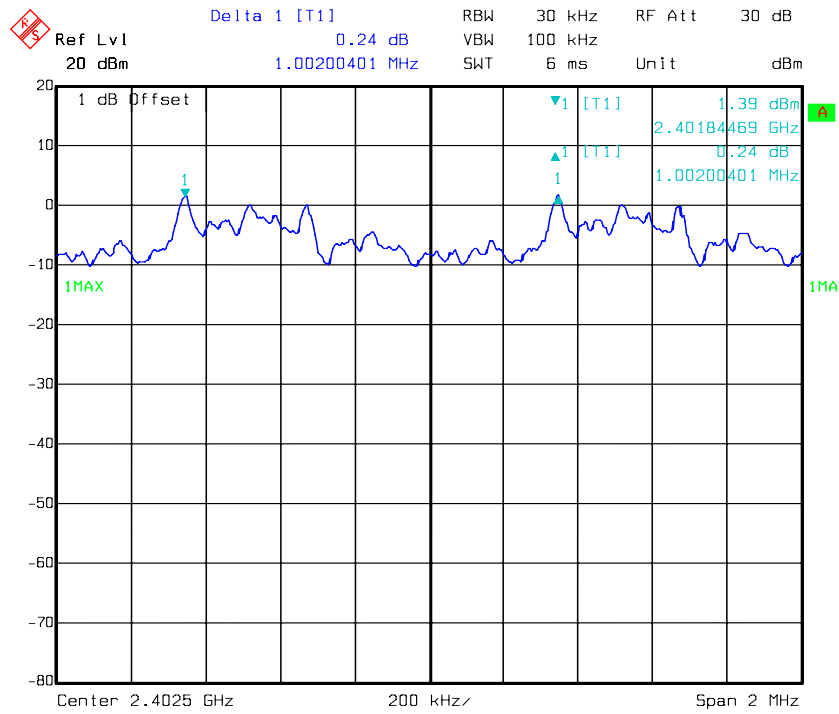


### High Channel

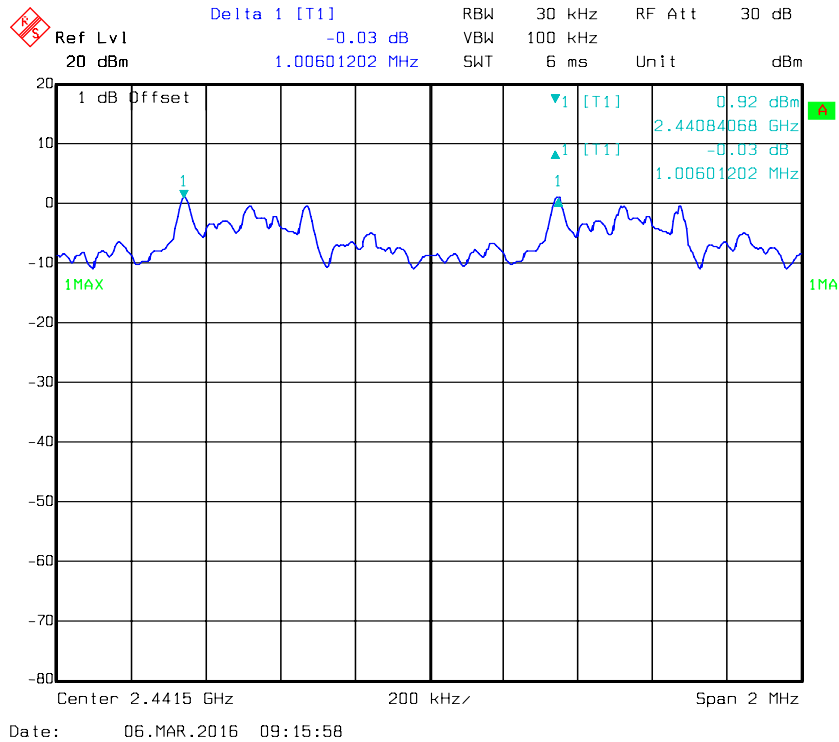


EDR Mode ( $\pi/4$ -DQPSK):

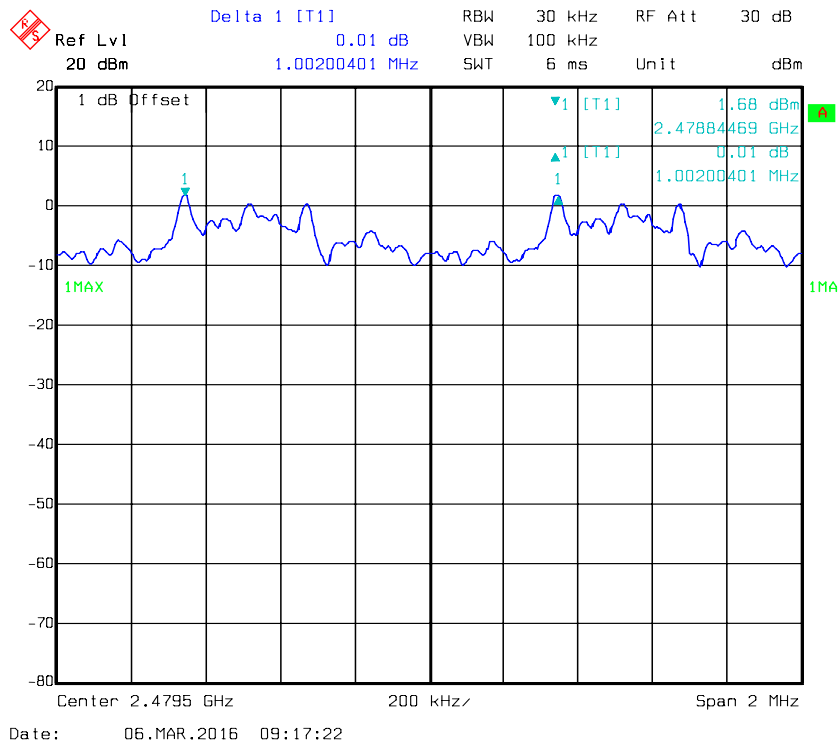
### Low Channel



### Middle Channel

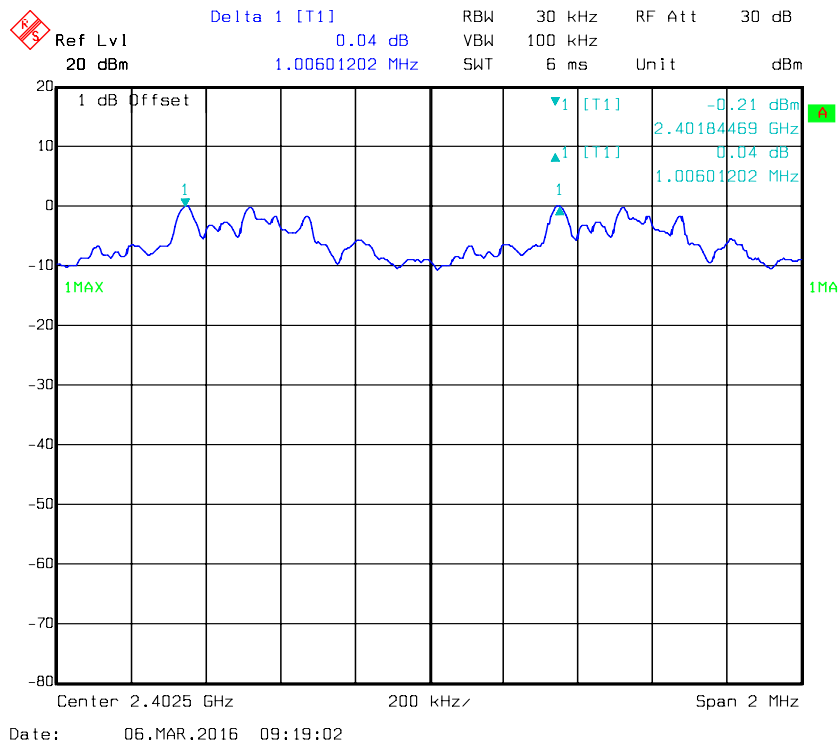


### High Channel

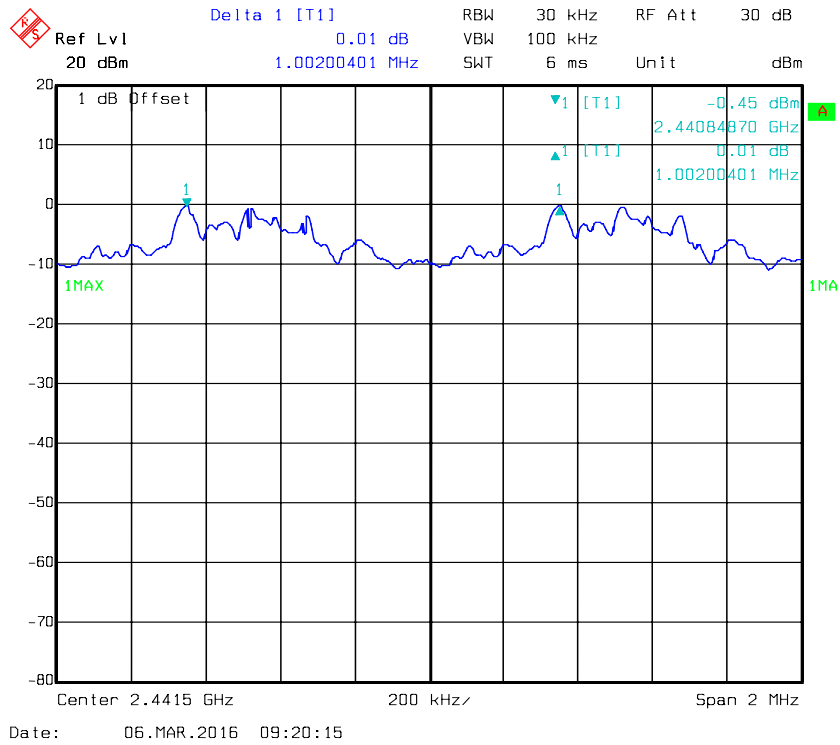


EDR Mode (8-DPSK):

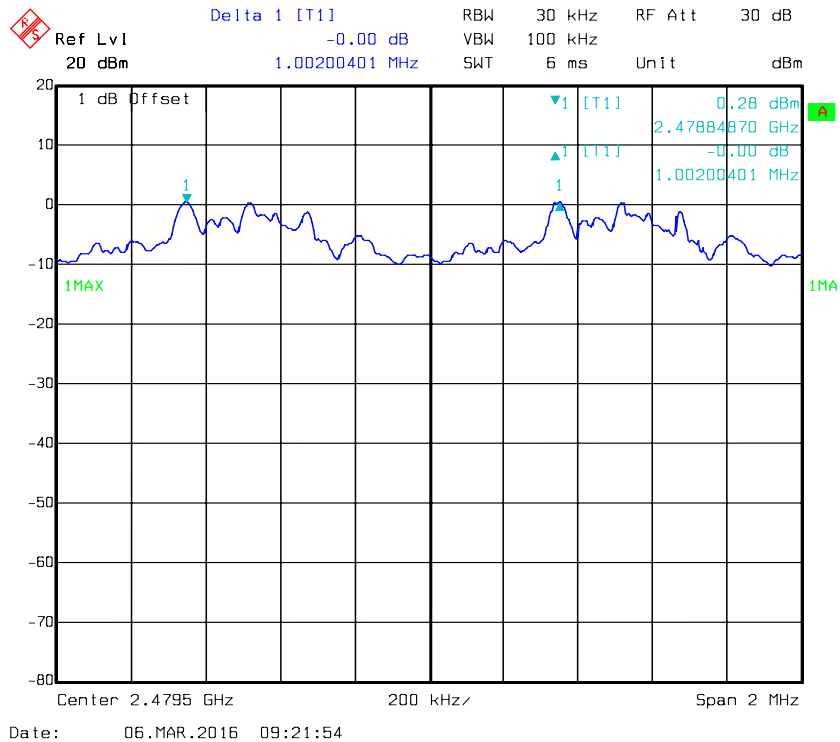
### Low Channel



### 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
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	22.8 °C
<b>Relative Humidity:</b>	75 %
<b>ATM Pressure:</b>	101 kPa

\* The testing was performed by Dean Liu on 2016-03-06.

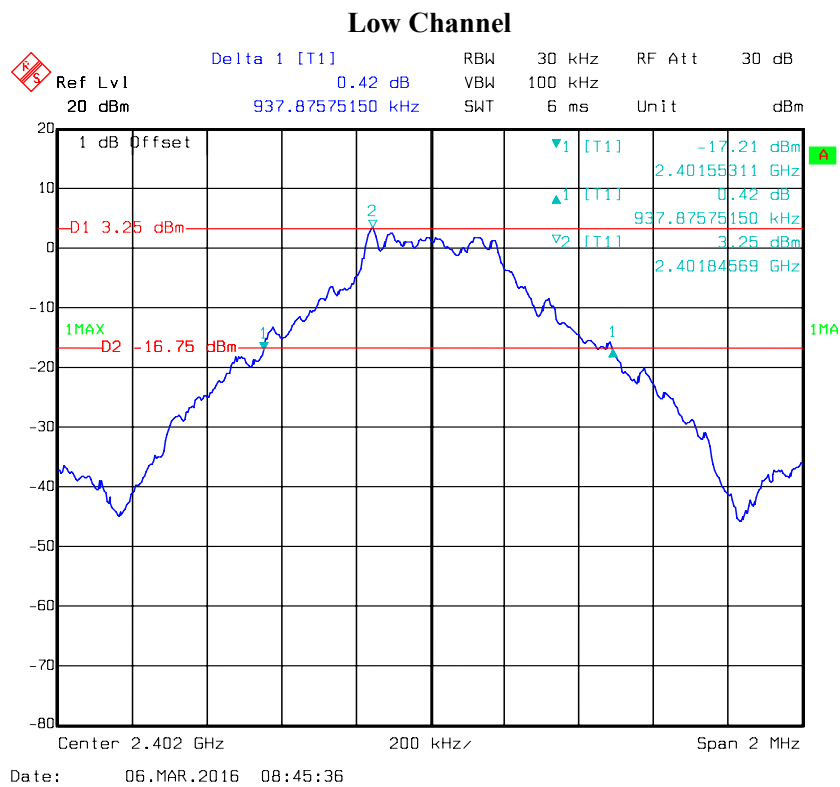
**Test Result:** Compliance.

Please refer to following tables and plots

Test Mode: Transmitting

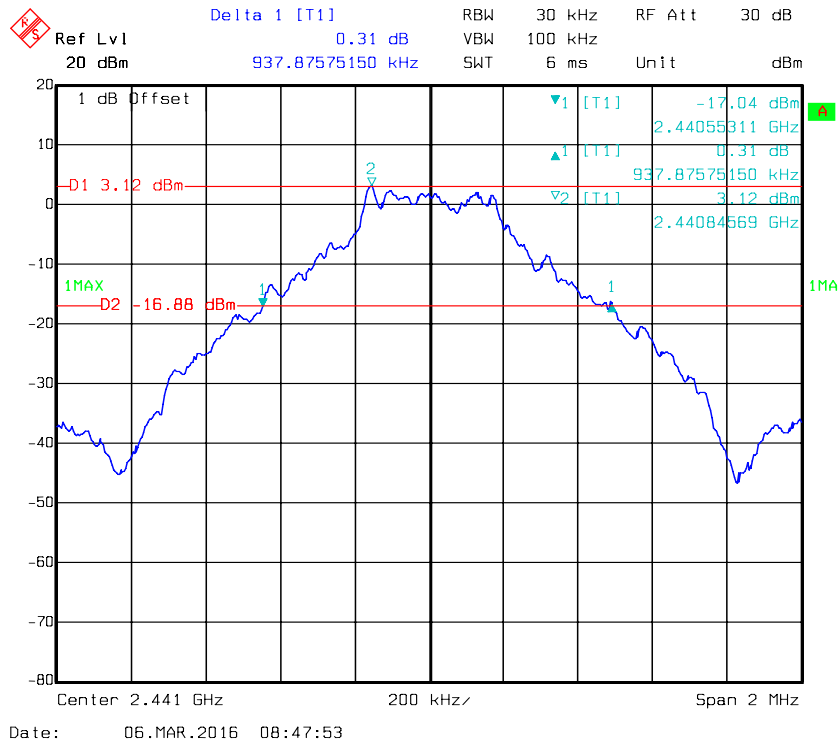
Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.94
	Middle	2441	0.94
	High	2480	0.94
EDR Mode ( $\pi/4$ -DQPSK)	Low	2402	1.26
	Middle	2441	1.26
	High	2480	1.25
EDR Mode (8-DPSK)	Low	2402	1.27
	Middle	2441	1.27
	High	2480	1.27

BDR Mode (GFSK):

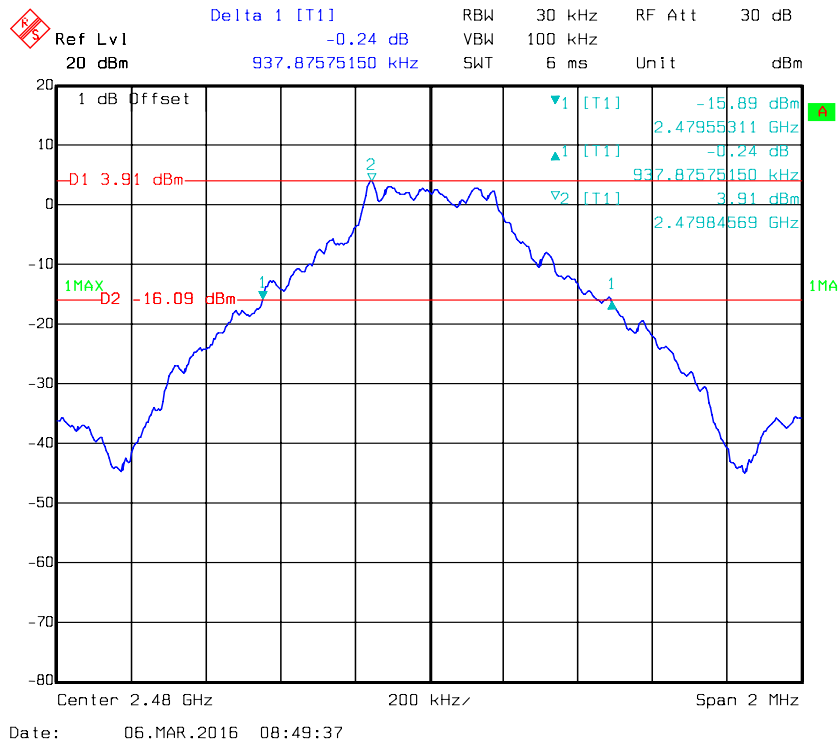




### Middle Channel

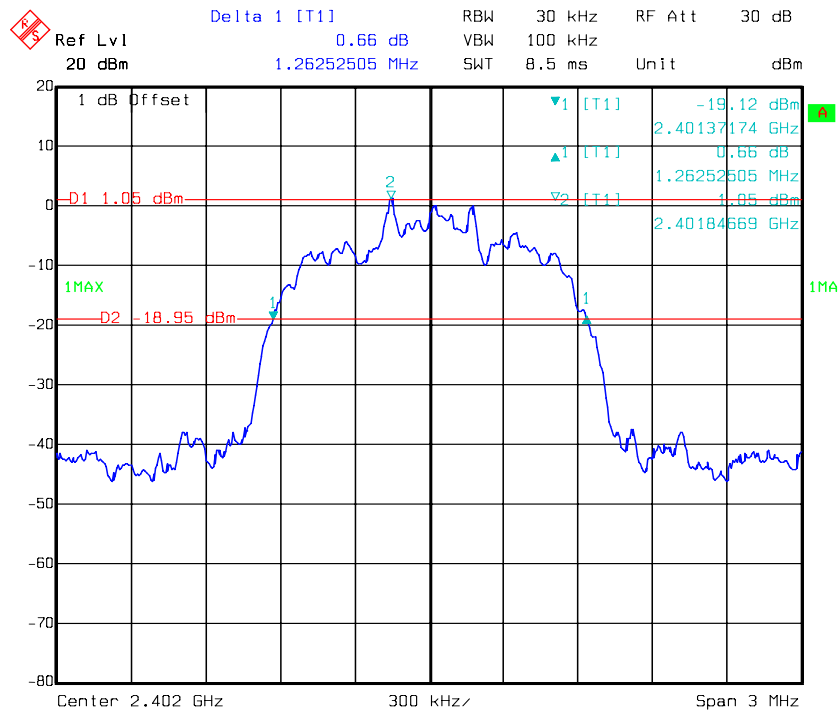


### High Channel



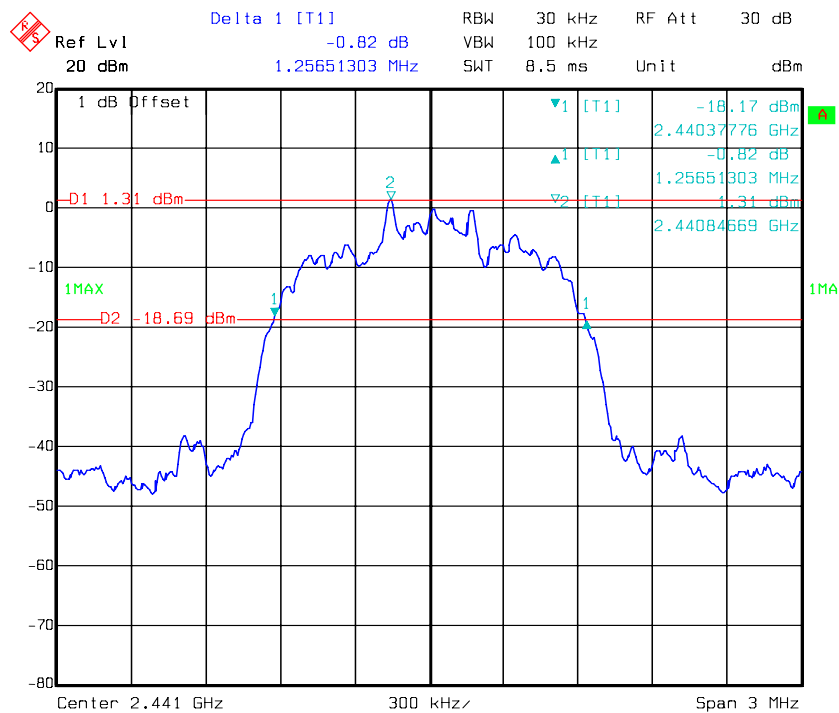
EDR Mode ( $\pi/4$ -DQPSK):

### Low Channel



Date: 06.MAR.2016 08:52:15

### Middle Channel



Date: 06.MAR.2016 08:54:24

Delta 1 [T1] RBW 30 kHz RF Att 30 dB  
 Ref Lvl -0.36 dB VBW 100 kHz  
 20 dBm 1.25050100 MHz SWT 8.5 ms Unit dBm

1 dB Offset  
 -D1 2.1 dBm  
 1MAX  
 -D2 -17.9 dBm  
 1  
 2  
 [T1] -17.40 dBm  
 2.4793776 GHz  
 [T1] -0.36 dB  
 1.25050100 MHz  
 [T1] 2.10 dBm  
 2.47984669 GHz  
 1MAX

Center 2.48 GHz 300 kHz Span 3 MHz

Date: 06.MAR.2016 08:56:09

Date: 06.MAR.2016 08:56:09

Delta 1 [T1] -0.11 dB

Ref Lvl 20 dBm 1.26853707 MHz

RBW 30 kHz RF Att 30 dB

VBW 100 kHz

SWT 0.5 ms Unit dBm

1 dB Offset

D1 -0.09 dBm

D2 -19.91 dBm

1MAX

1 [T1] -19.30 dBm 2.40137776 GHz

2 [T1] -0.11 dBm 1.26853707 MHz

2 [T1] 0.12 dBm 2.40185271 GHz

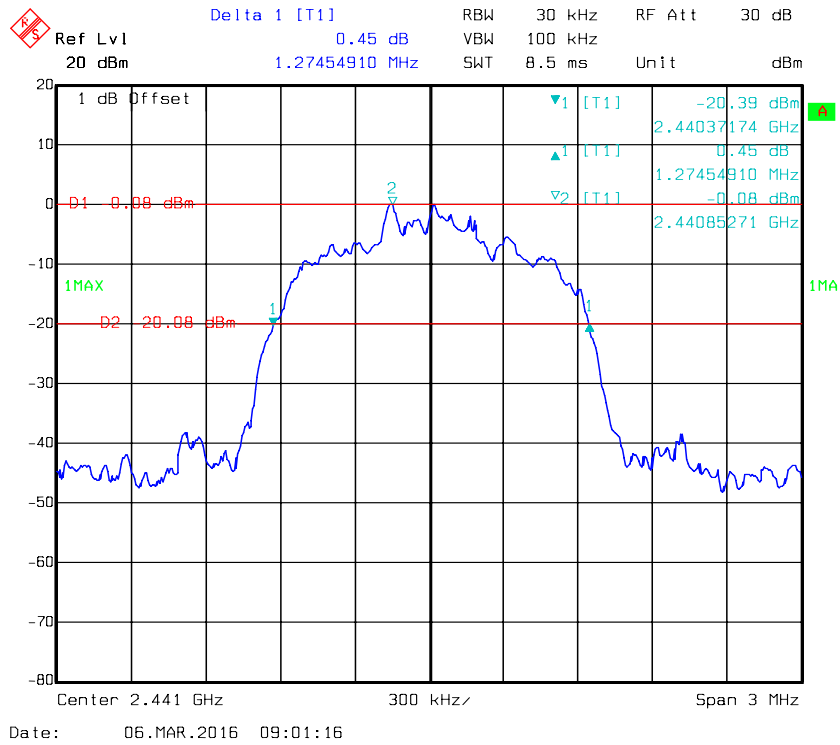
2MAX

Center 2.402 GHz 300 kHz

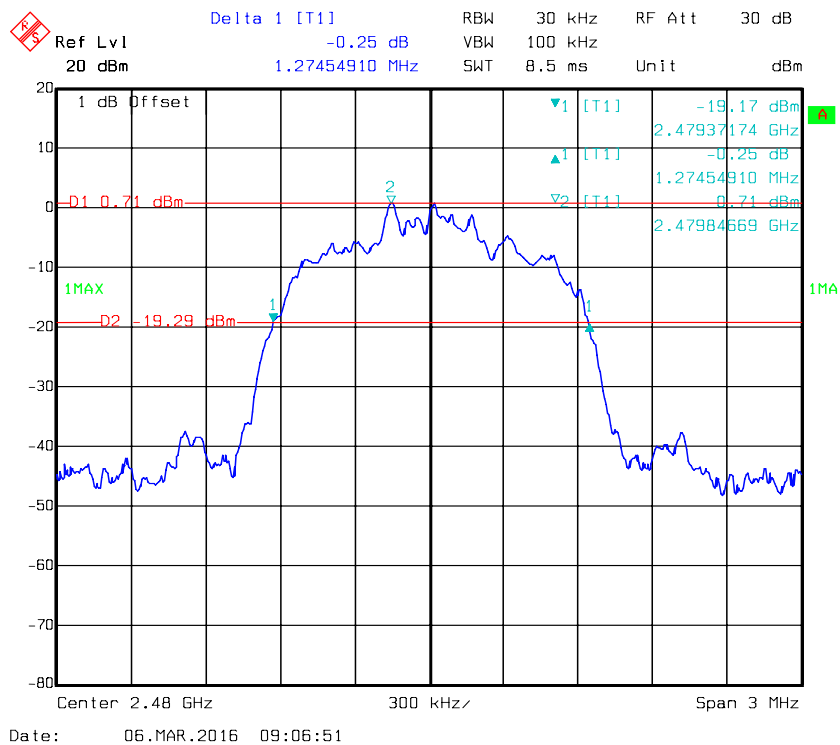
Span 3 MHz

Date: 06.MAR.2016 08:59:05

### 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
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Data

#### Environmental Conditions

<b>Temperature:</b>	22.8 °C
<b>Relative Humidity:</b>	75 %
<b>ATM Pressure:</b>	101 kPa

\* The testing was performed by Dean Liu on 2016-03-06.

**Test Result:** Compliance.

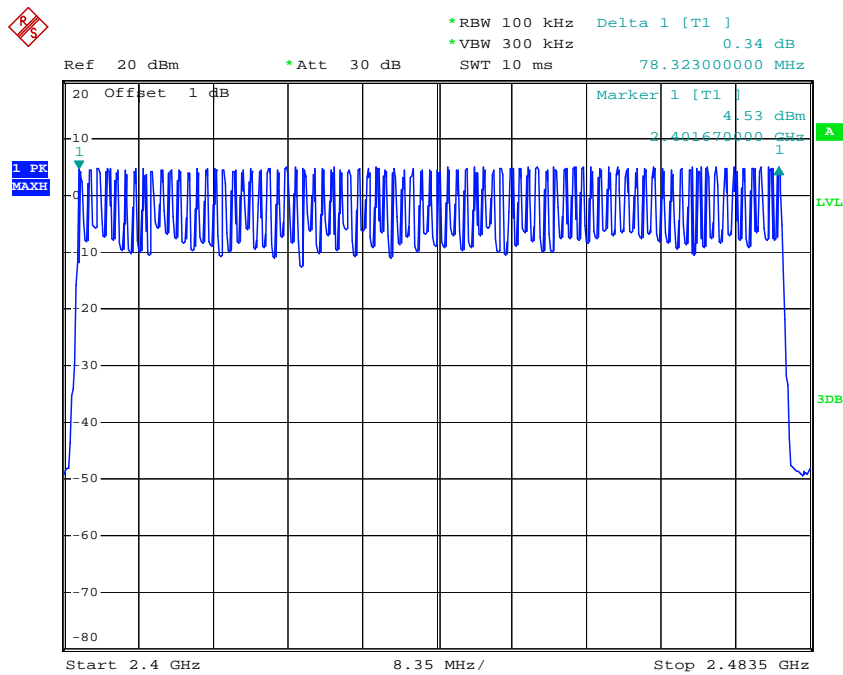
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	$\geq 15$

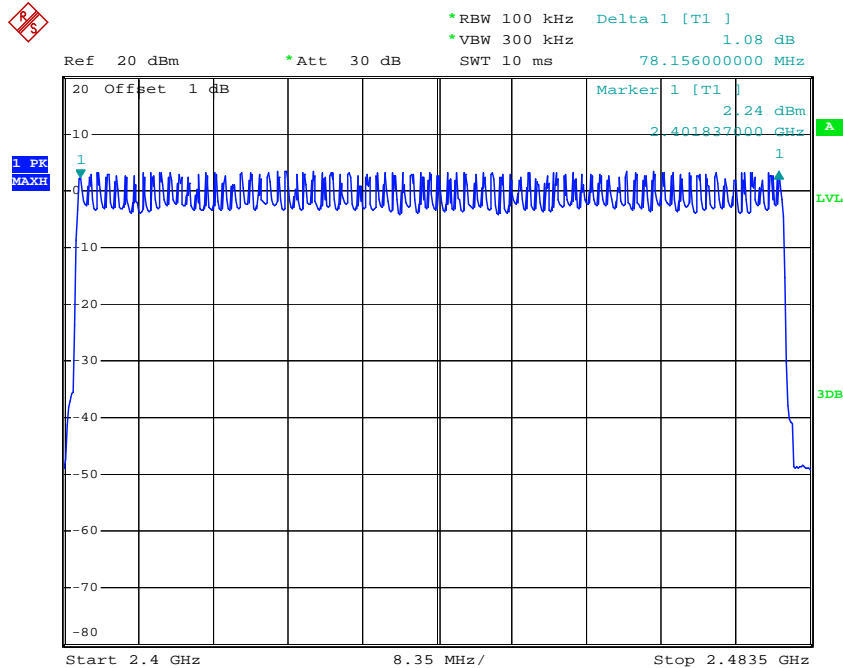
### Number of Hopping Channels



Date: 6.MAR.2016 15:24:40

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

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	$\geq 15$

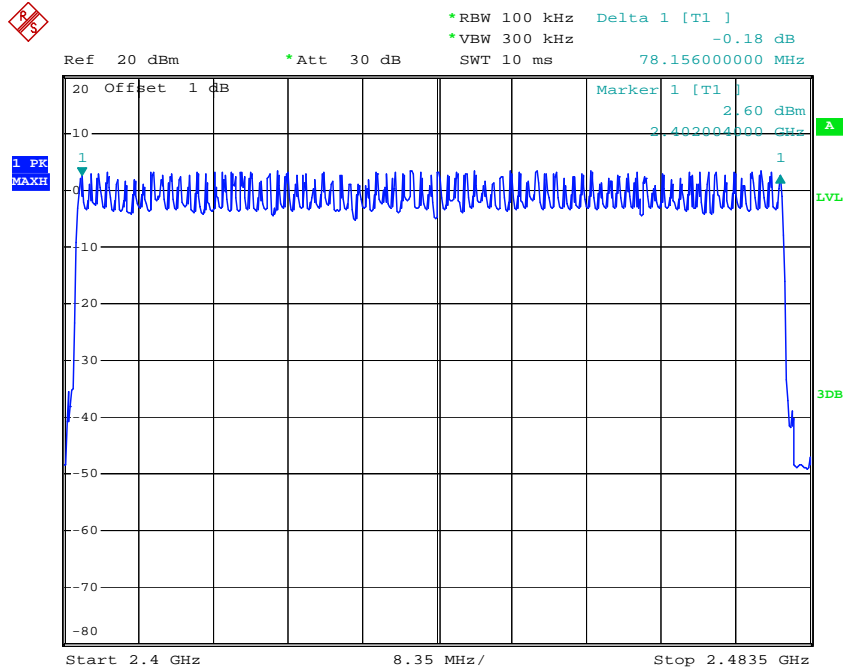
**Number of Hopping Channels**

Date: 6.MAR.2016 15:20:10

EDR Mode (8-DPSK):

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	$\geq 15$

### Number of Hopping Channels



Date: 6.MAR.2016 15:11:53



## 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 \* hope 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
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Data

#### Environmental Conditions

Temperature:	22.8 °C
Relative Humidity:	75 %
ATM Pressure:	101 kPa

\* The testing was performed by Dean Liu on 2016-03-06.

**Test Result:** Compliance.

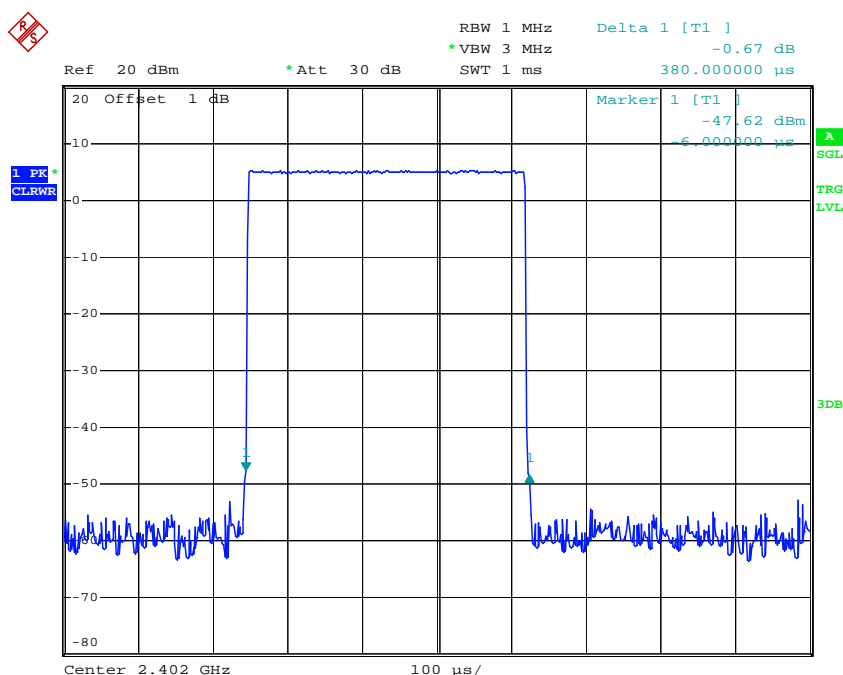
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

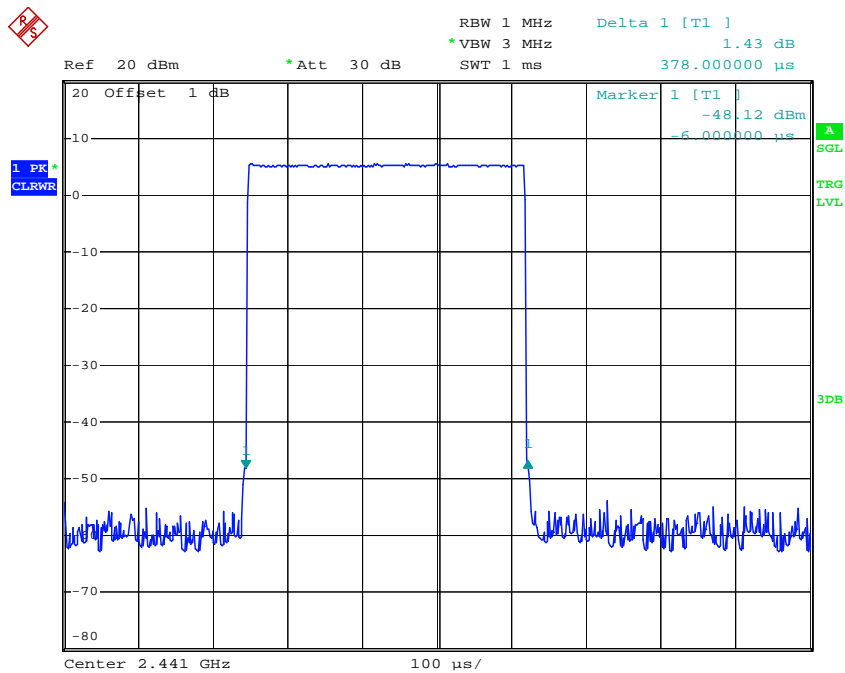
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
<b>DH1</b>	Low	0.380	0.122	0.4	Compliance
	Middle	0.378	0.121	0.4	Compliance
	High	0.378	0.121	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
<b>DH3</b>	Low	1.650	0.264	0.4	Compliance
	Middle	1.650	0.264	0.4	Compliance
	High	1.650	0.264	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
<b>DH5</b>	Low	2.900	0.309	0.4	Compliance
	Middle	2.900	0.309	0.4	Compliance
	High	2.910	0.310	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

### DH1: Low Channel



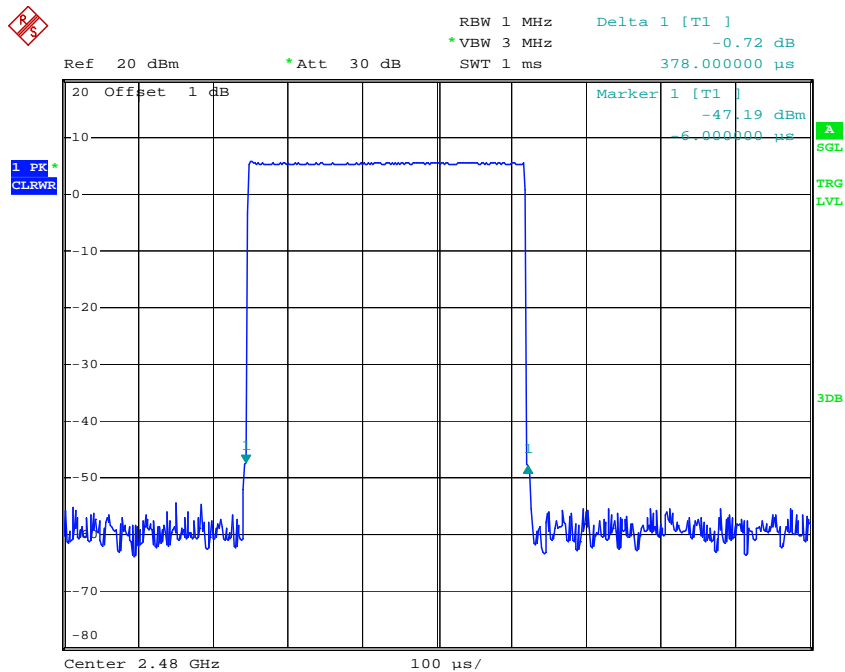
Date: 6.MAR.2016 14:57:21

### DH1: Middle Channel



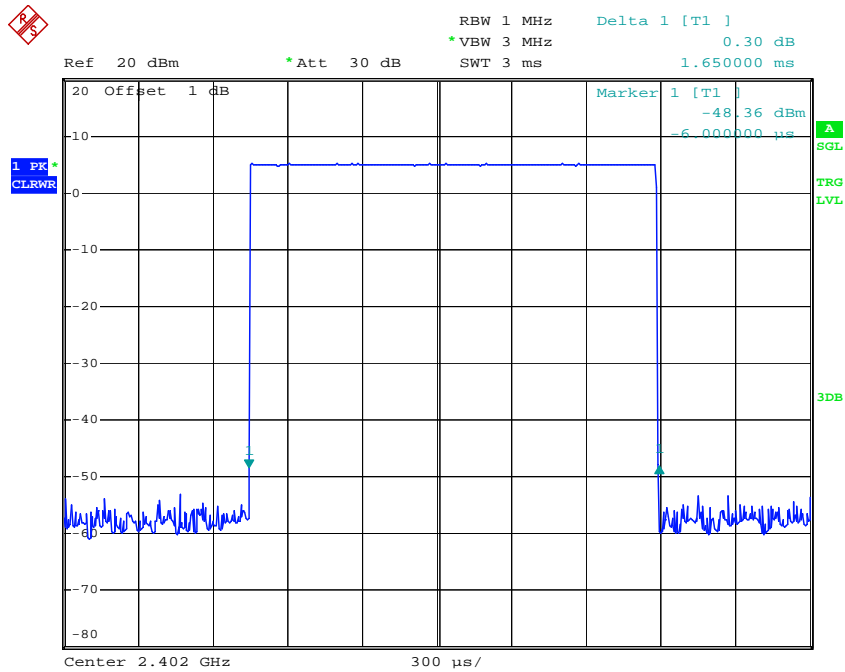
Date: 6.MAR.2016 14:57:34

### DH1: High Channel



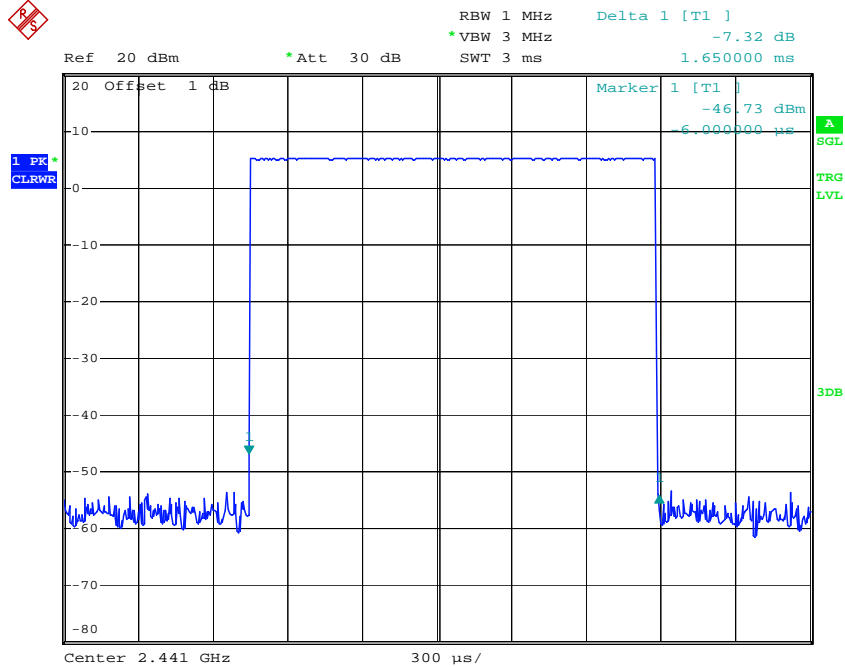
Date: 6.MAR.2016 14:57:45

### DH3: Low Channel



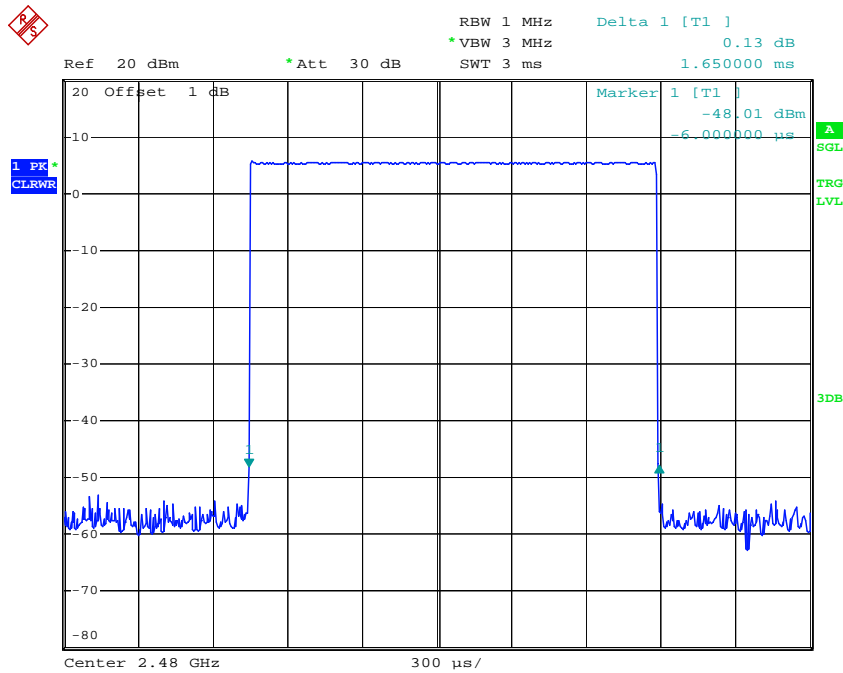
Date: 6.MAR.2016 14:58:23

### DH3: Middle Channel



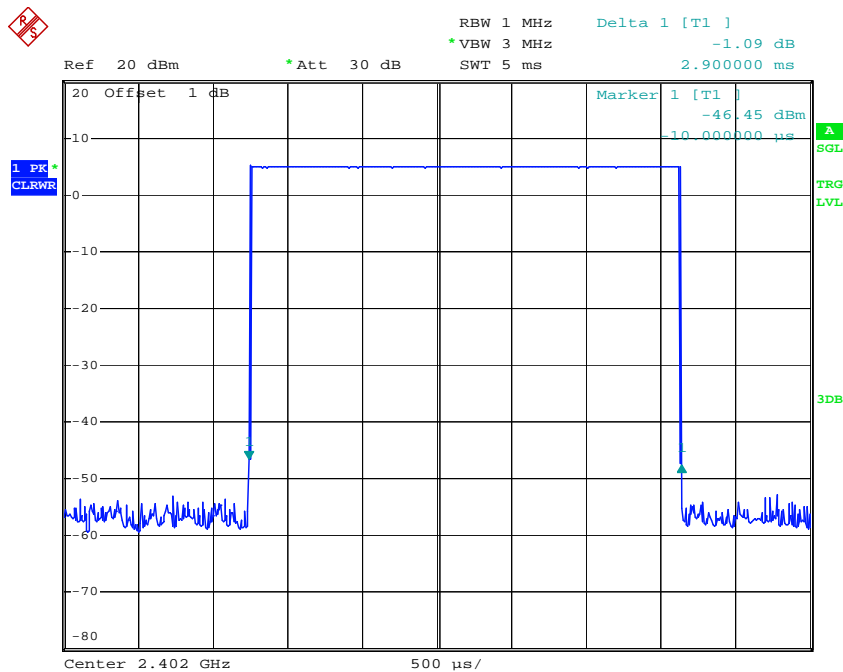
Date: 6.MAR.2016 14:58:34

### DH3: High Channel



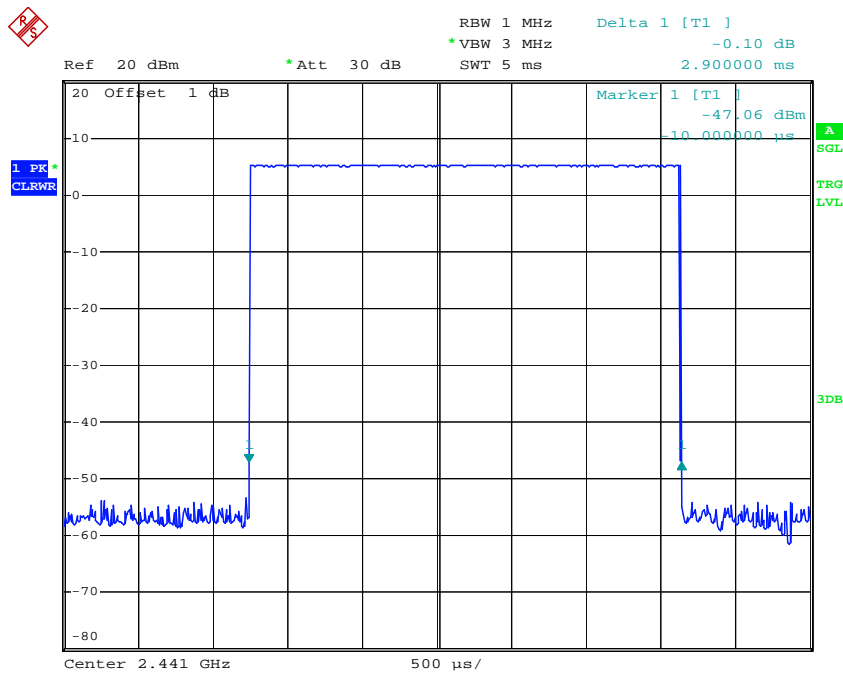
Date: 6.MAR.2016 14:58:46

### DH5: Low Channel



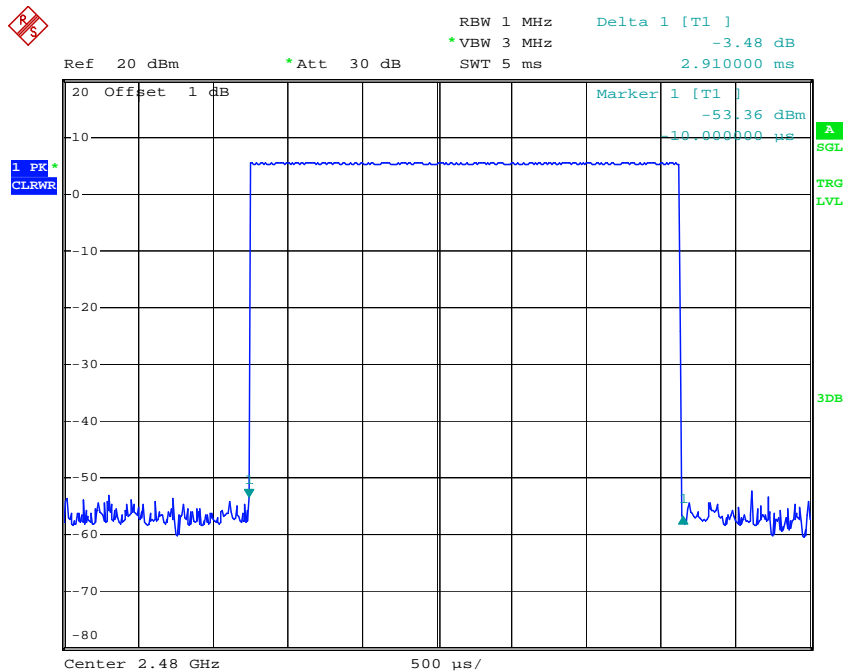
Date: 6.MAR.2016 14:59:16

### DH5: Middle Channel



Date: 6.MAR.2016 14:59:28

### DH5: High Channel

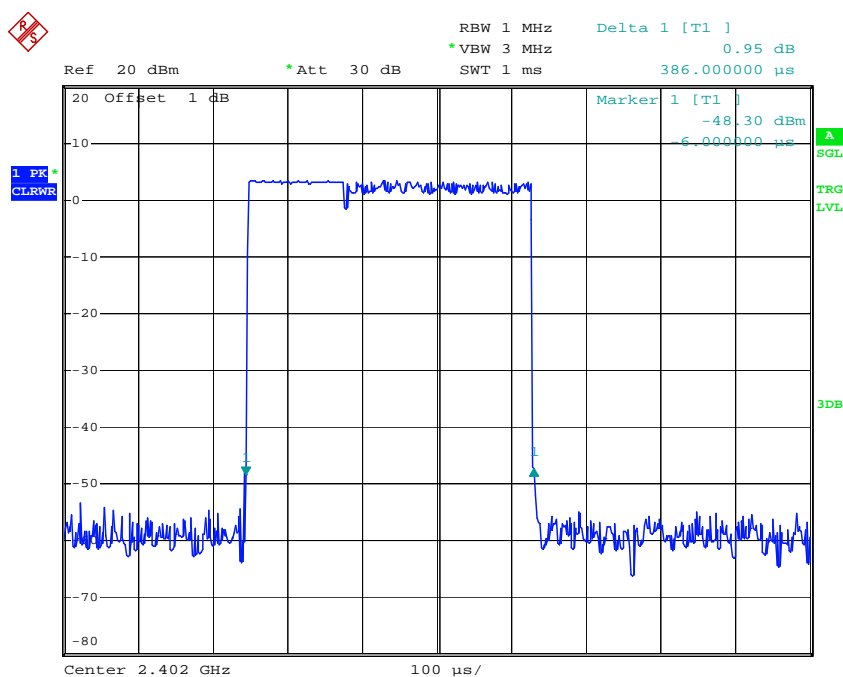


Date: 6.MAR.2016 14:59:39

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

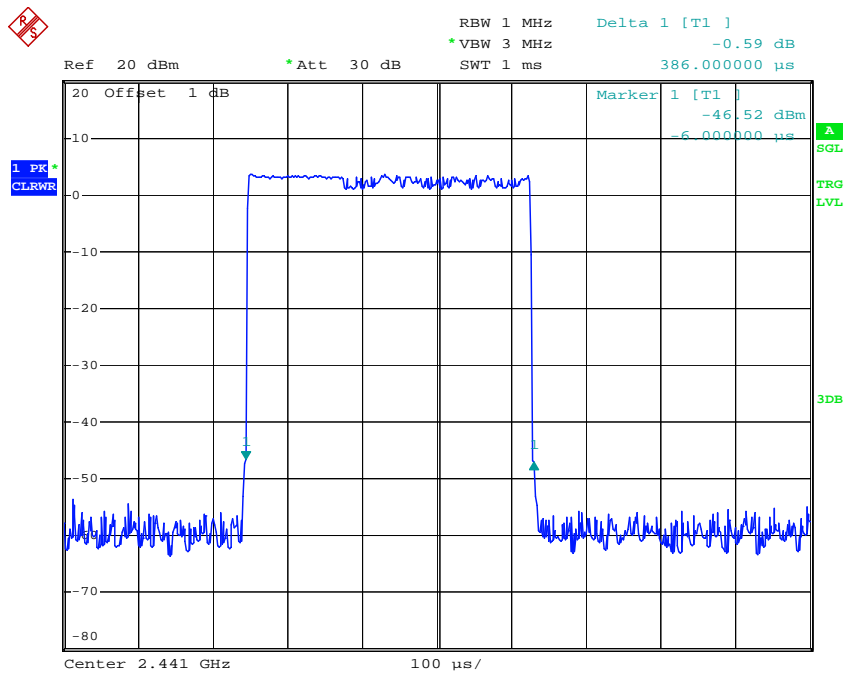
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.386	0.124	0.4	Compliance
	Middle	0.386	0.124	0.4	Compliance
	High	0.388	0.124	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
2DH3	Low	1.650	0.264	0.4	Compliance
	Middle	1.656	0.265	0.4	Compliance
	High	1.656	0.265	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
2DH5	Low	2.910	0.310	0.4	Compliance
	Middle	2.910	0.310	0.4	Compliance
	High	2.910	0.310	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

## 2DH1: Low Channel



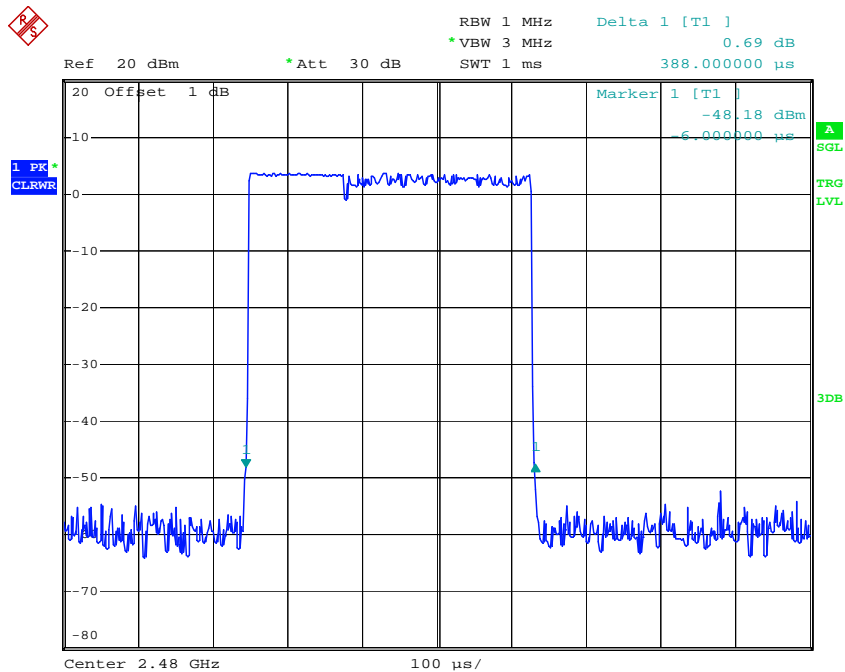
Date: 6.MAR.2016 15:00:17

### 2DH1: Middle Channel



Date: 6.MAR.2016 15:00:29

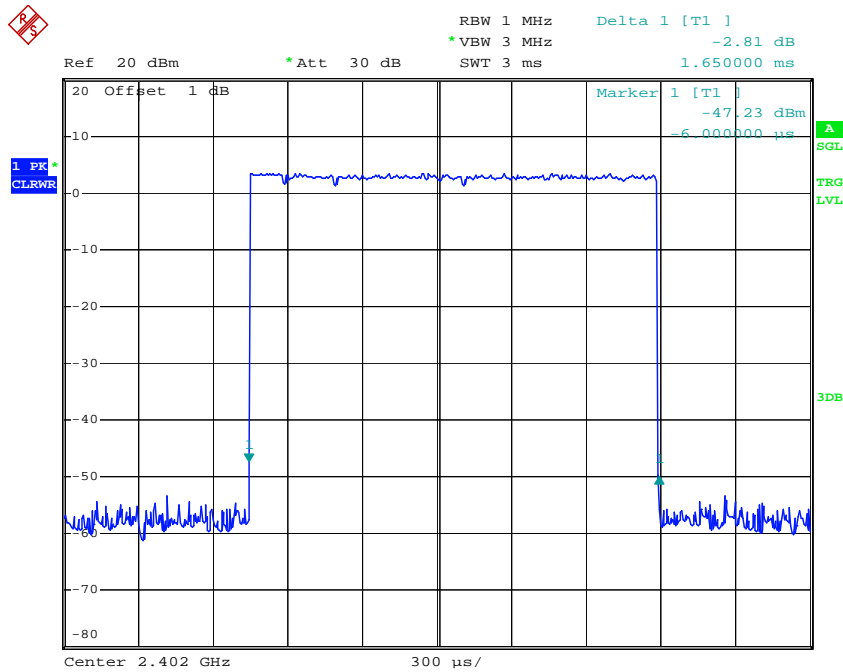
### 2DH1: High Channel



Date: 6.MAR.2016 15:00:40

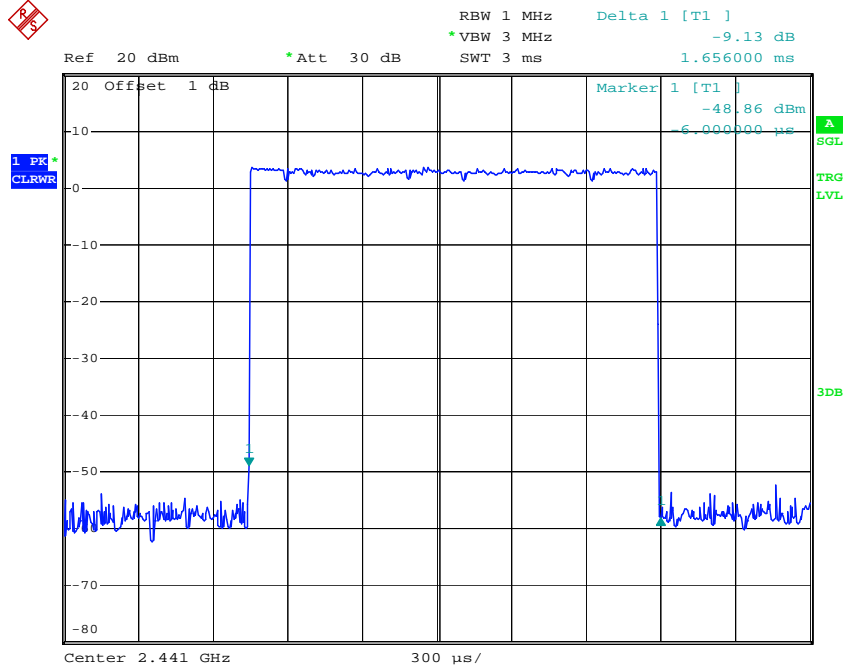


### 2DH3: Low Channel



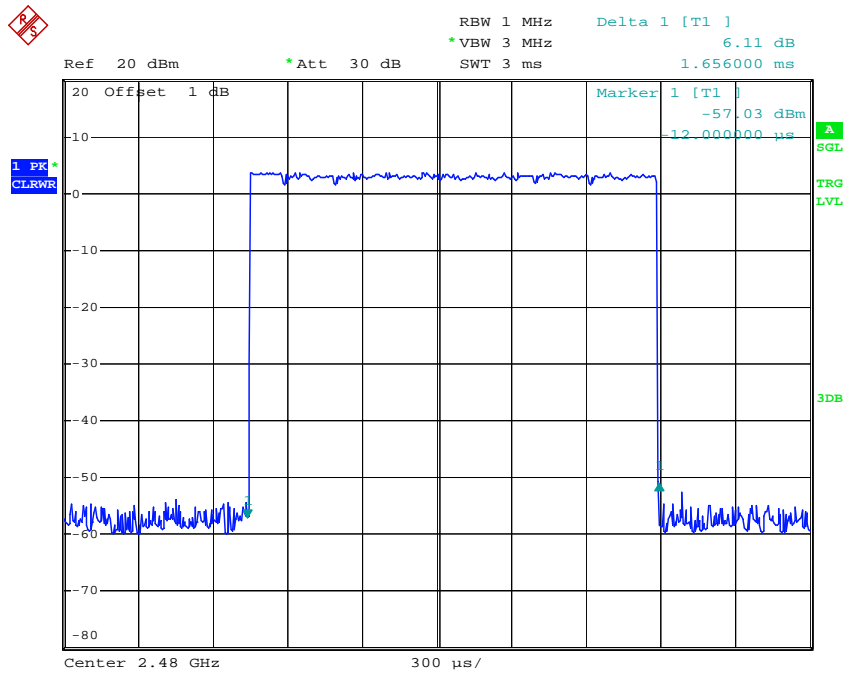
Date: 6.MAR.2016 15:01:17

### 2DH3: Middle Channel



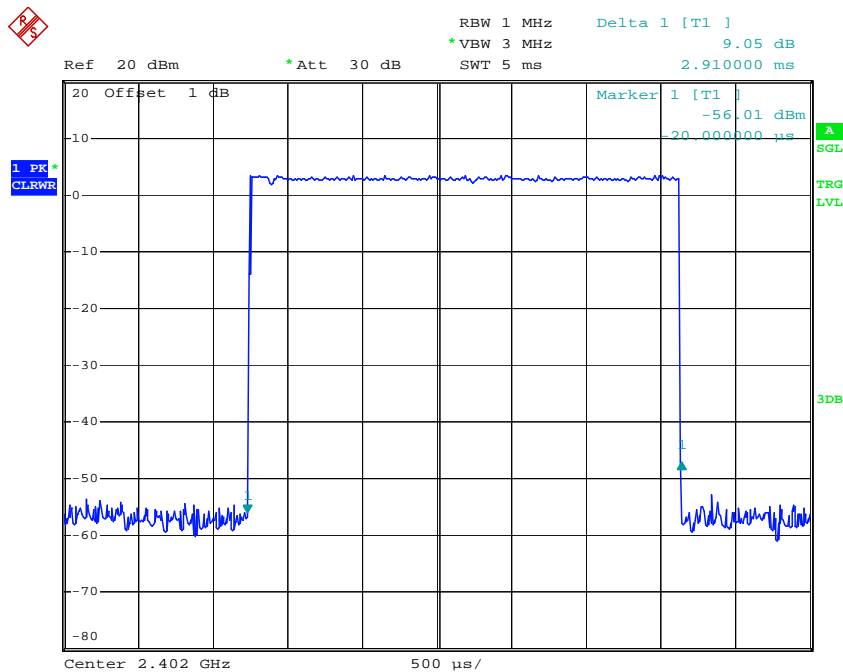
Date: 6.MAR.2016 15:01:28

### 2DH3: High Channel



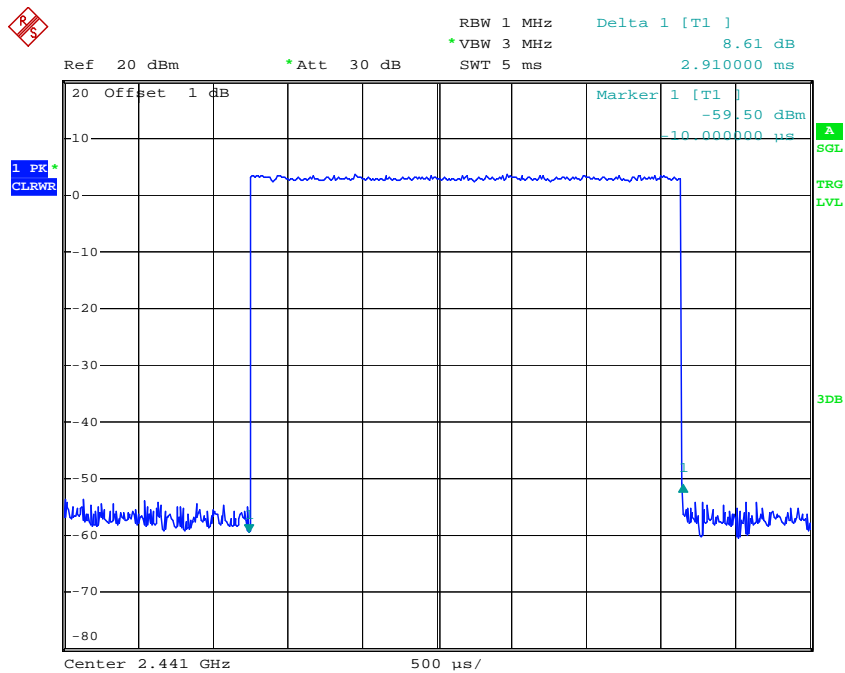
Date: 6.MAR.2016 15:01:39

### 2DH5: Low Channel



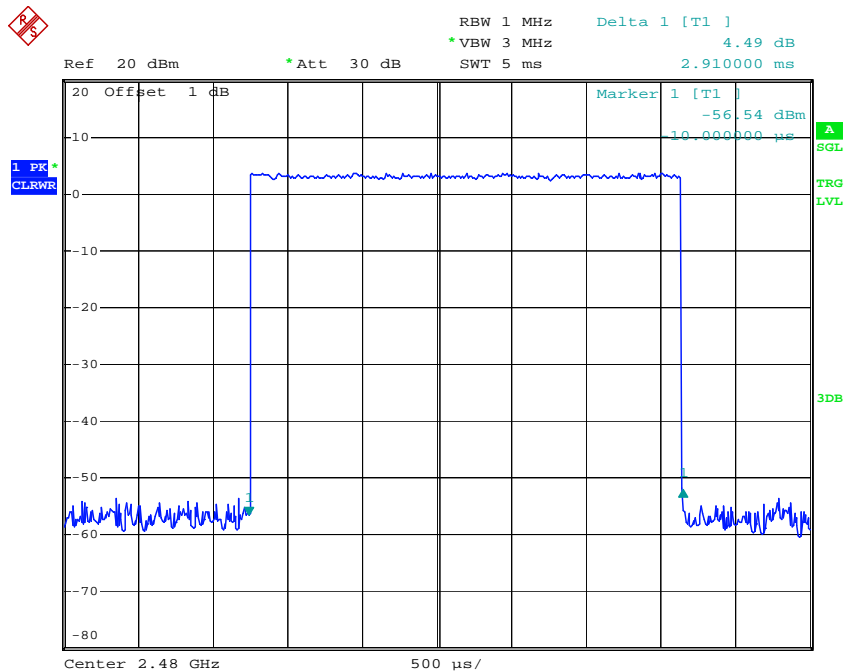
Date: 6.MAR.2016 15:02:19

### 2DH5: Middle Channel



Date: 6.MAR.2016 15:02:32

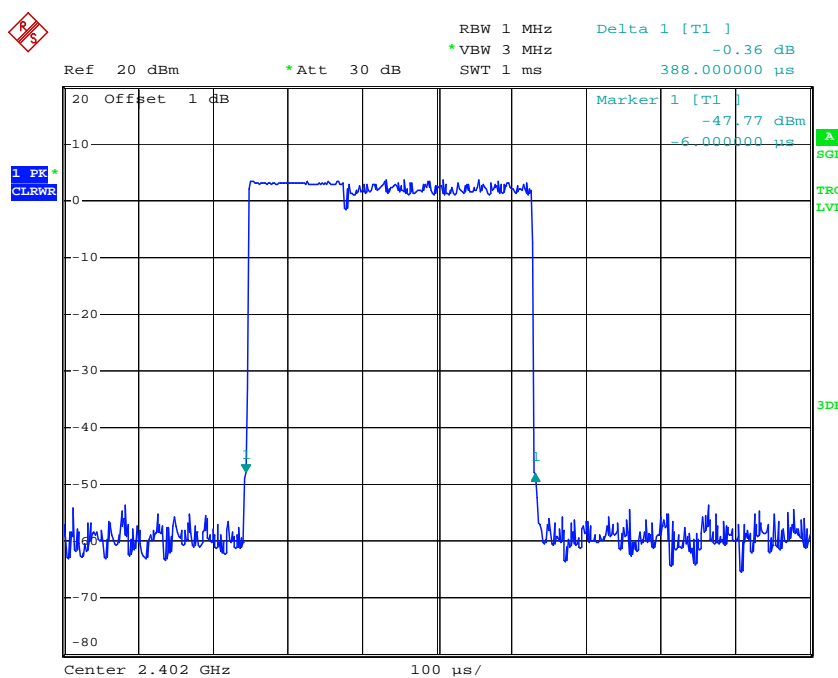
### 2DH5: High Channel



Date: 6.MAR.2016 15:02:43

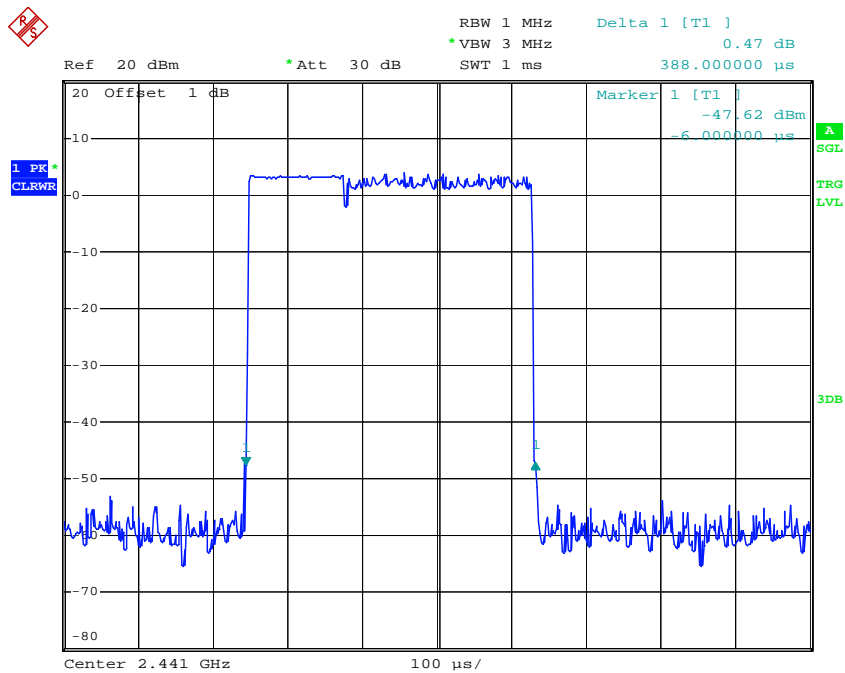
*EDR Mode (8-DPSK):*

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
<b>3DH1</b>	Low	0.388	0.124	0.4	Compliance
	Middle	0.388	0.124	0.4	Compliance
	High	0.388	0.124	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) × 31.6 s				
<b>3DH3</b>	Low	1.650	0.264	0.4	Compliance
	Middle	1.650	0.264	0.4	Compliance
	High	1.650	0.264	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) × 31.6 s				
<b>3DH5</b>	Low	2.910	0.310	0.4	Compliance
	Middle	2.910	0.310	0.4	Compliance
	High	2.910	0.310	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) × 31.6 s				

**3DH1: Low Channel**

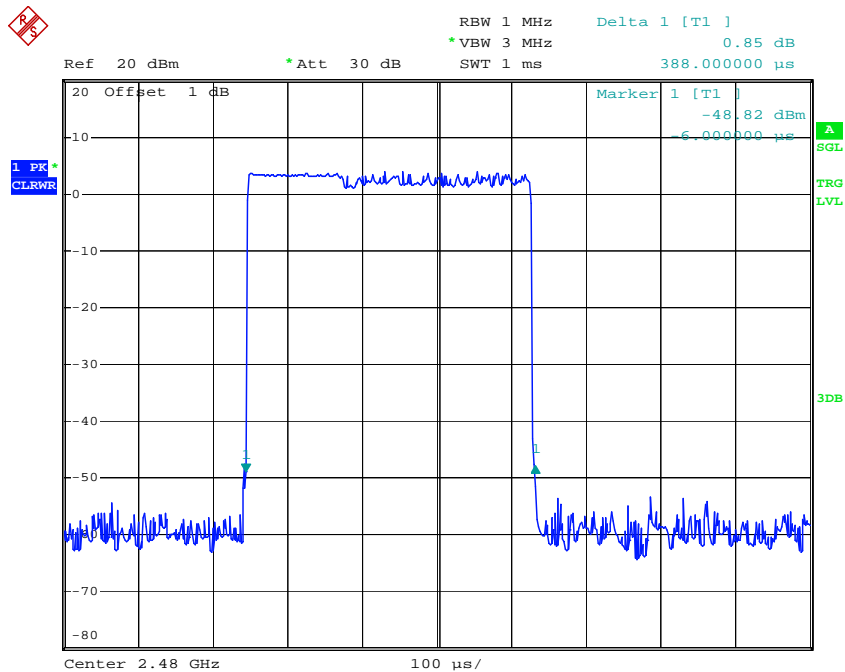
Date: 6.MAR.2016 15:03:29

### 3DH1: Middle Channel



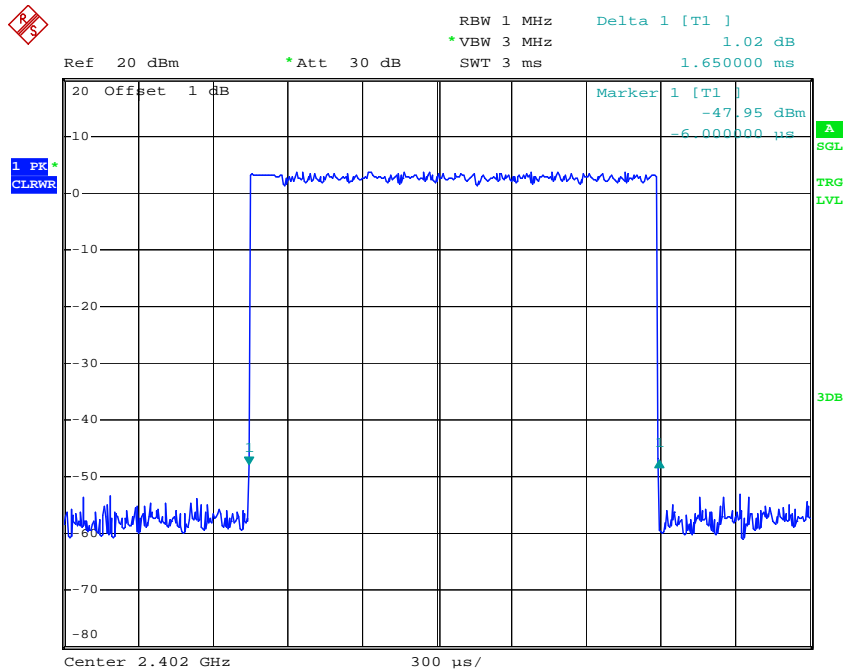
Date: 6.MAR.2016 15:03:41

### 3DH1: High Channel



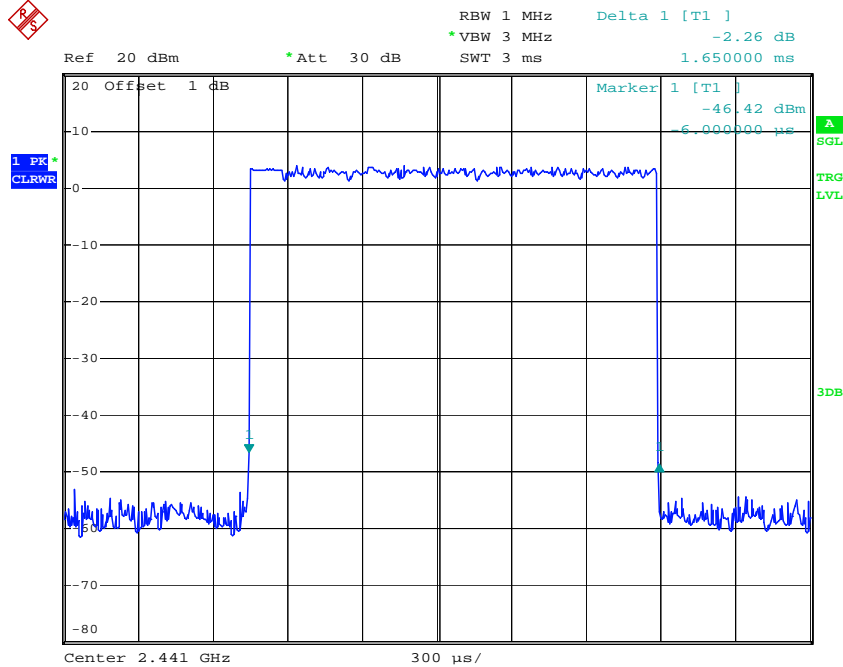
Date: 6.MAR.2016 15:03:52

### 3DH3: Low Channel



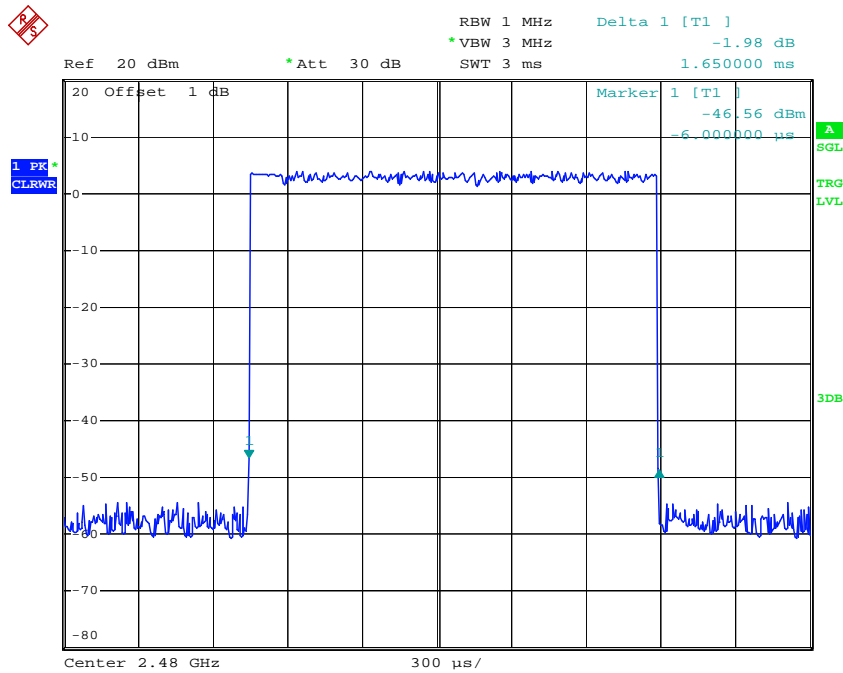
Date: 6.MAR.2016 15:04:29

### 3DH3: Middle Channel



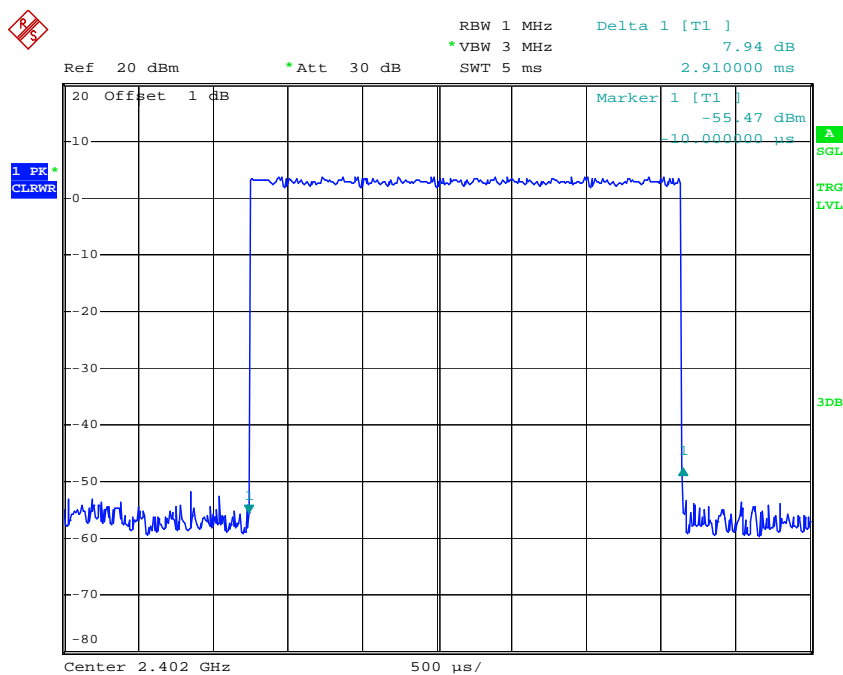
Date: 6.MAR.2016 15:04:42

### 3DH3: High Channel



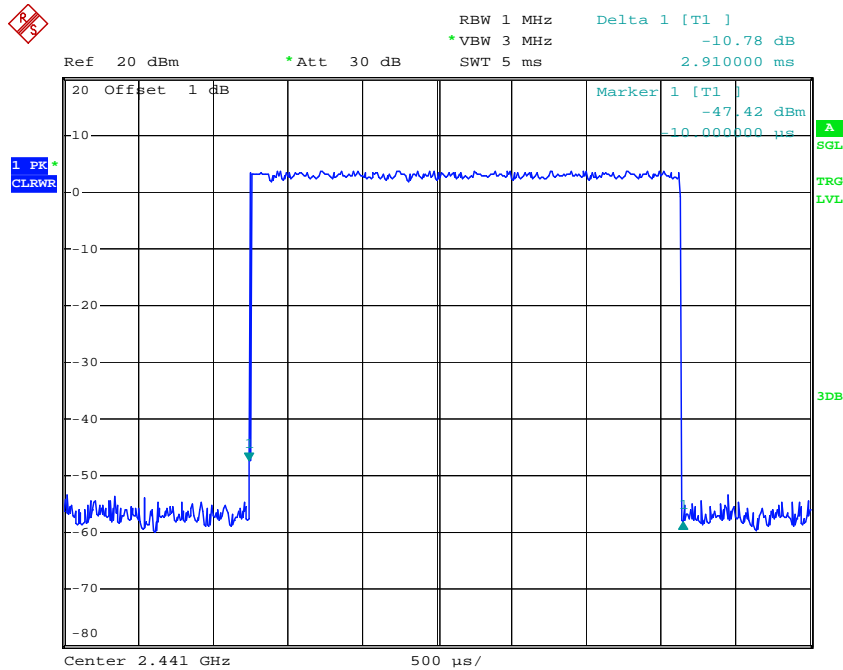
Date: 6.MAR.2016 15:04:53

### 3DH5: Low Channel



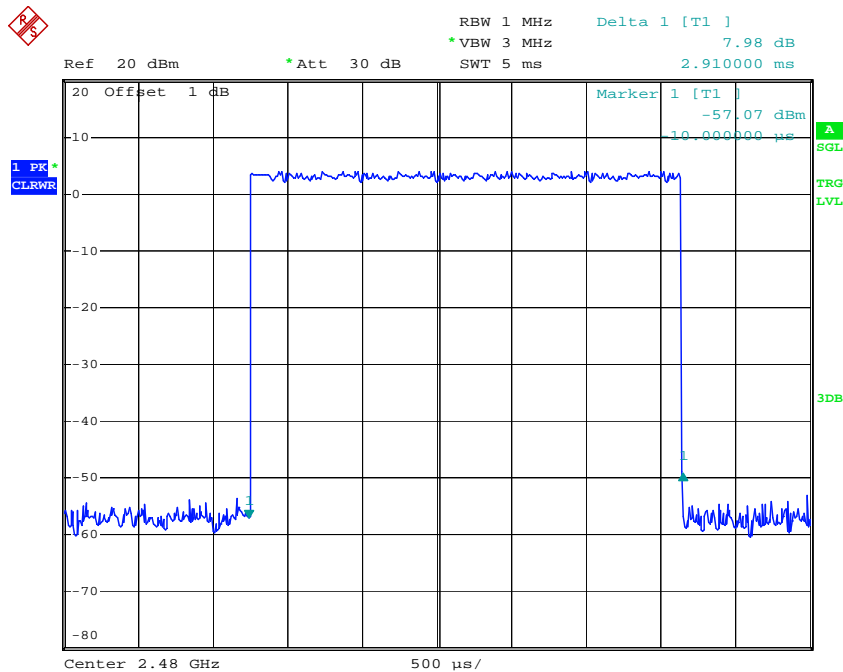
Date: 6.MAR.2016 15:05:29

### 3DH5: Middle Channel



Date: 6.MAR.2016 15:05:40

### 3DH5: High Channel



Date: 6.MAR.2016 15:05:52



**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 one test equipment.
3. Add a correction factor to the display.

**Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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

Temperature:	22.8 °C
Relative Humidity:	75 %
ATM Pressure:	101 kPa

\* The testing was performed by Dean Liu on 2016-03-06.

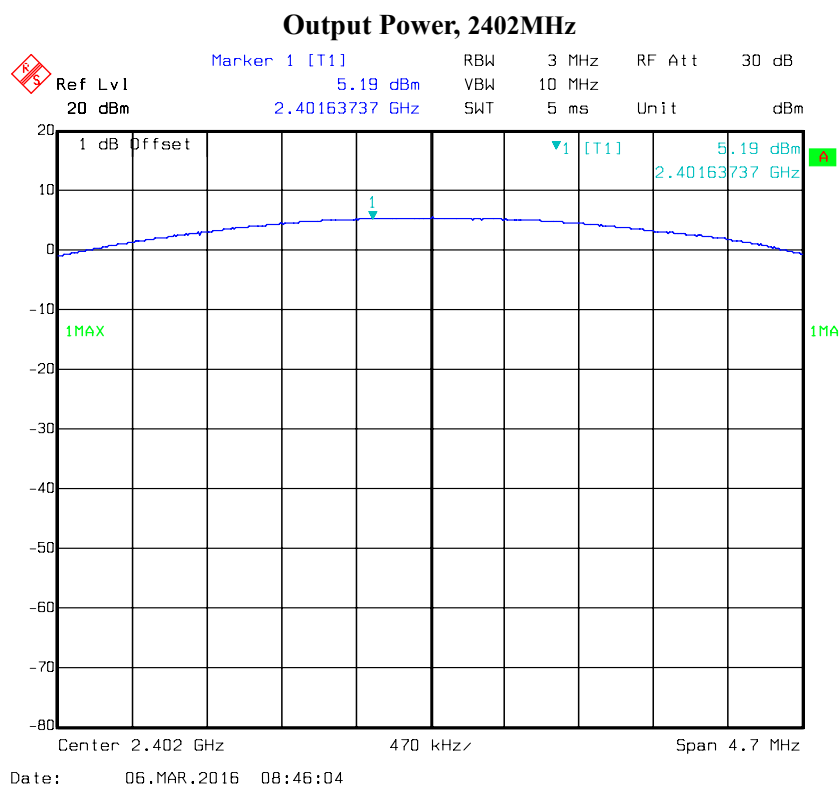
**Test Result:** Compliance.

Test Mode: Transmitting

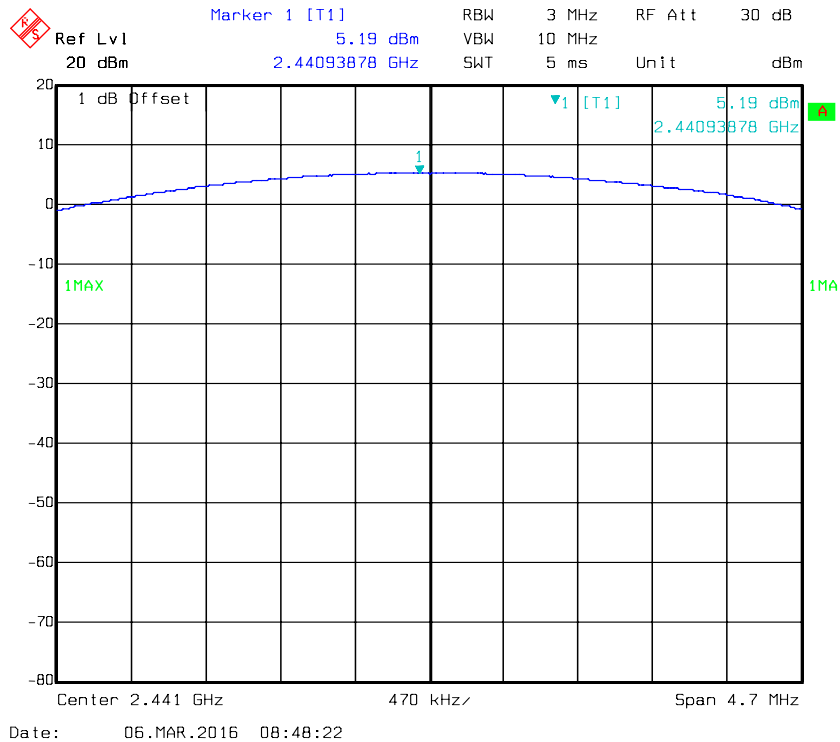
Mode	Frequency (MHz)	Peak Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	5.19	30
	2441	5.19	30
	2480	6.06	30
EDR Mode ( $\pi/4$ -DQPSK)	2402	4.10	30
	2441	3.98	30
	2480	4.47	30
EDR Mode (8-DPSK)	2402	4.47	30
	2441	4.23	30
	2480	5.08	30

Note: The data above was tested in conducted mode.

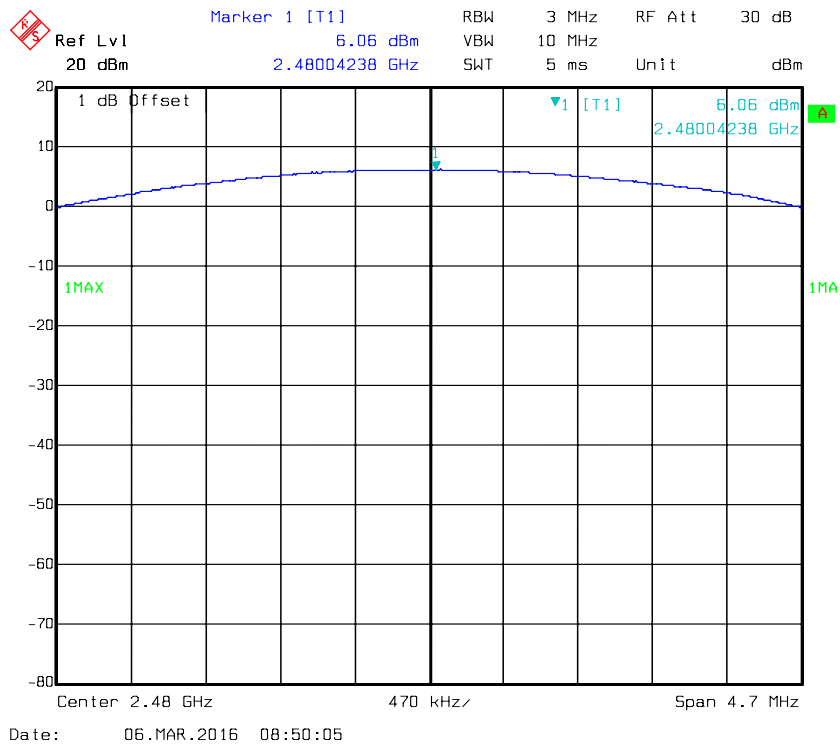
BDR Mode (GFSK):



### Output Power, 2441MHz

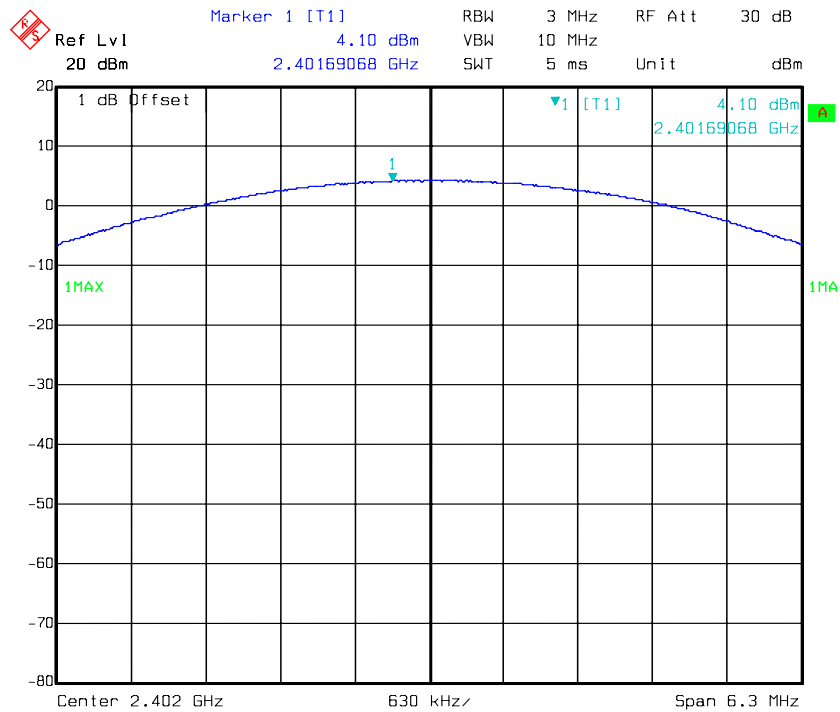


### Output Power, 2480MHz



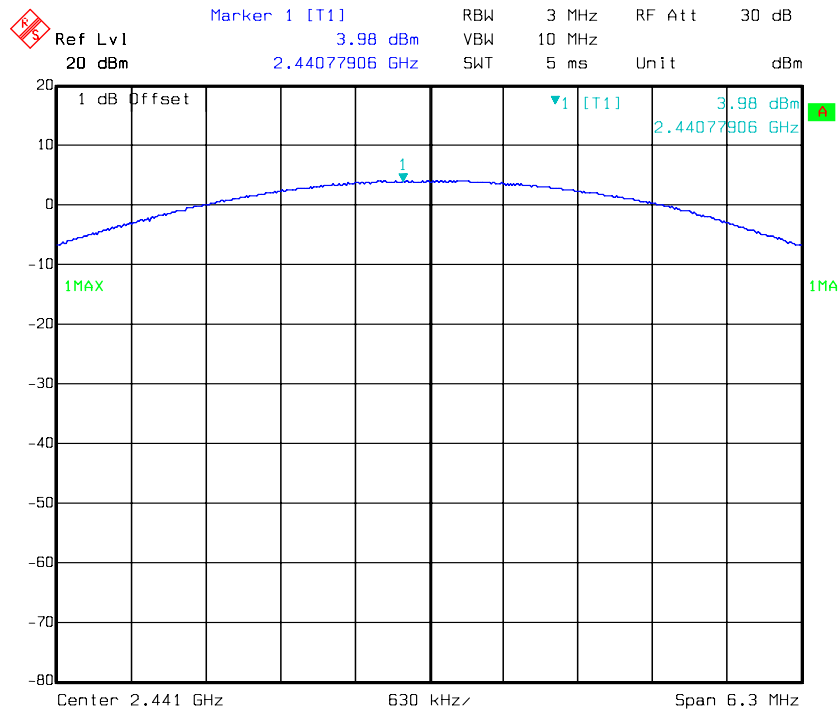
EDR Mode ( $\pi/4$ -DQPSK):

### Output Power, 2402MHz



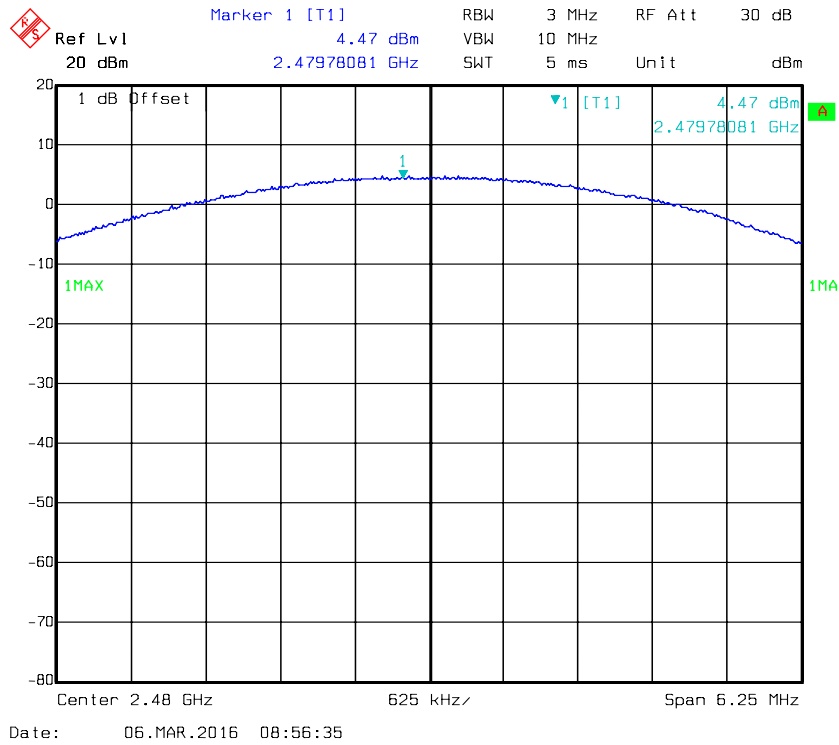
Date: 06.MAR.2016 08:52:42

### Output Power, 2441MHz



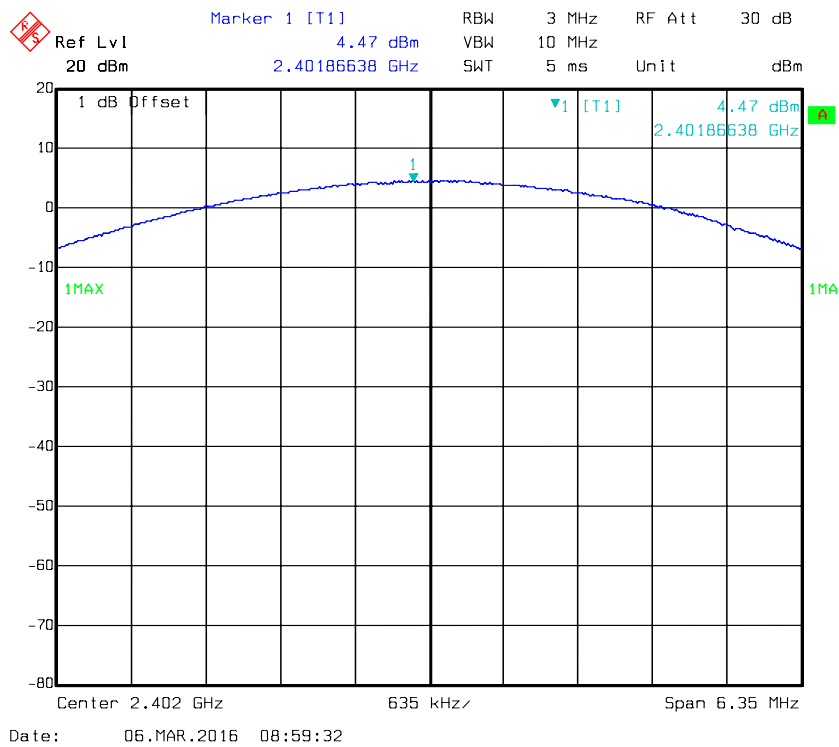
Date: 06.MAR.2016 08:54:50

### Output Power, 2480MHz

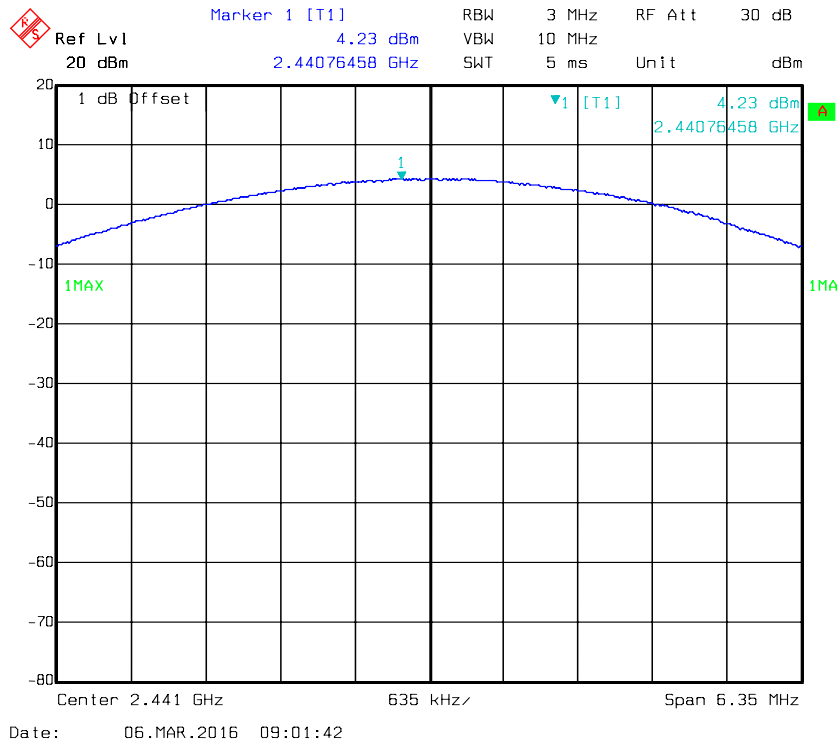


EDR Mode (8-DPSK):

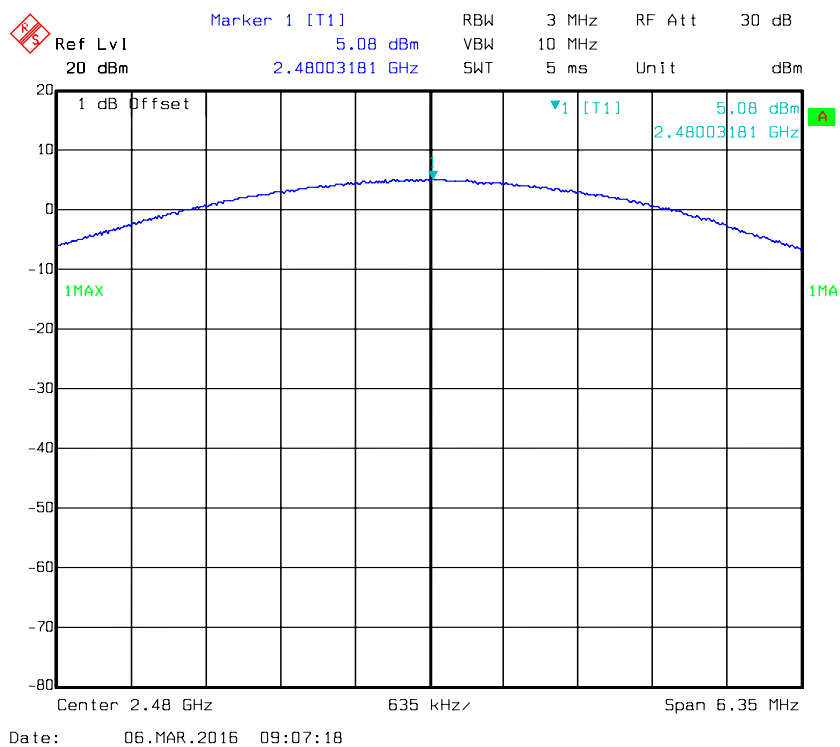
### Output Power, 2402MHz



### Output Power, 2441MHz



### Output Power, 2480MHz



## 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 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.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

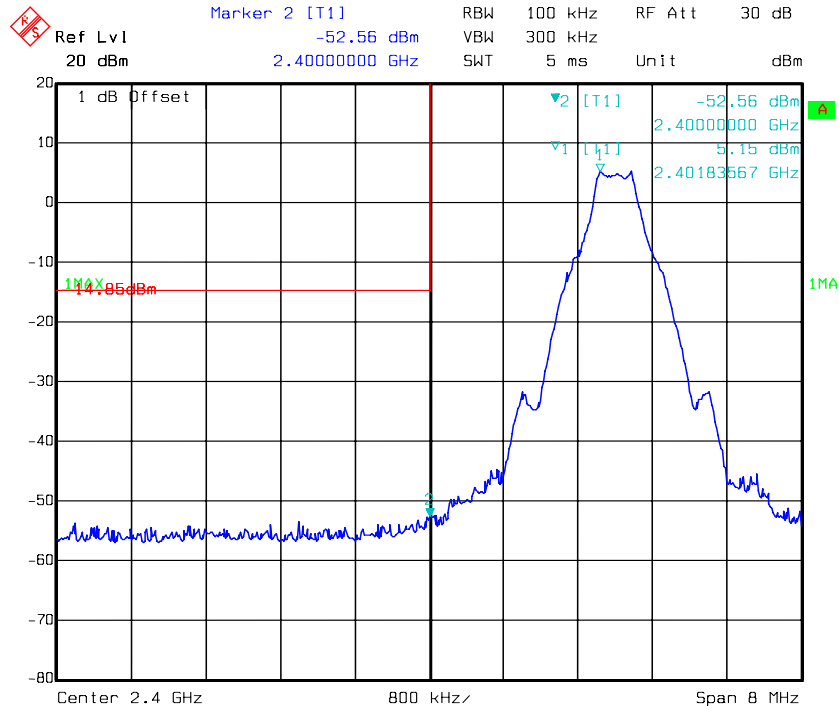
\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Data

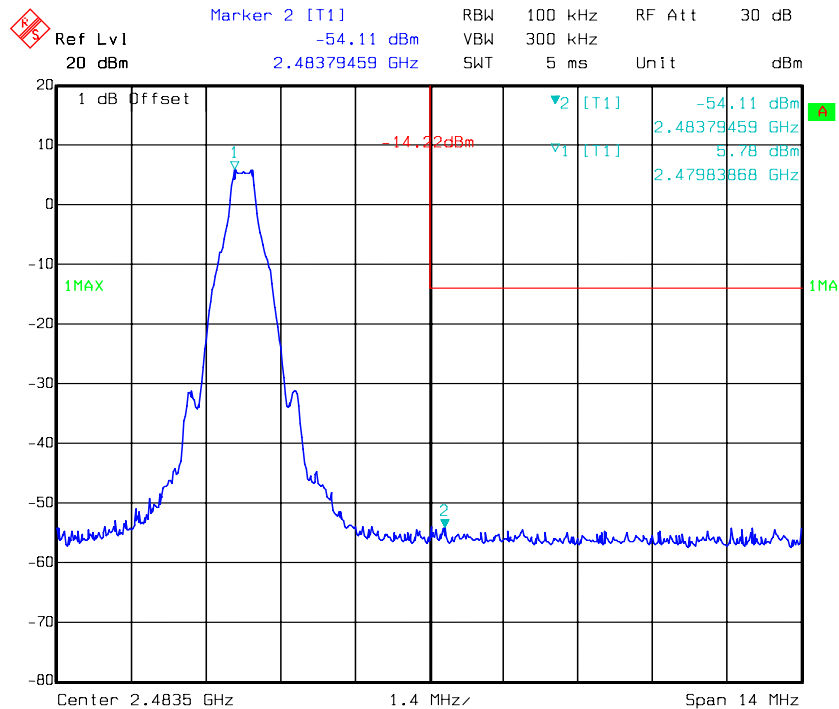
#### Environmental Conditions

<b>Temperature:</b>	22.8 °C
<b>Relative Humidity:</b>	75 %
<b>ATM Pressure:</b>	101 kPa

\* The testing was performed by Dean Liu on 2016-03-06.

**Test Result: Compliance***BDR Mode (GFSK):***Band Edge, Left Side**

Date: 06.MAR.2016 08:47:03

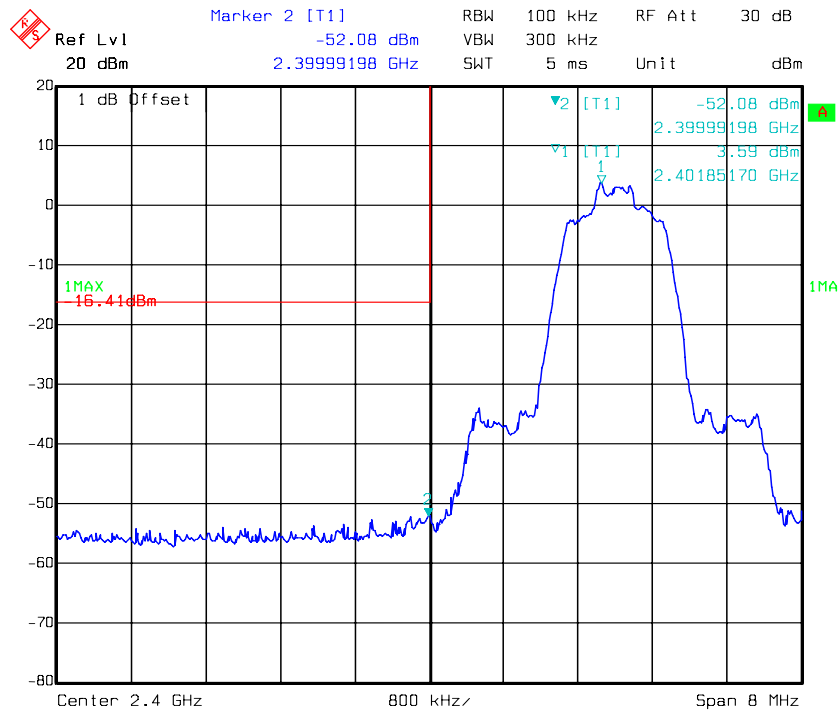
**Band Edge, Right Side**

Date: 06.MAR.2016 08:51:04

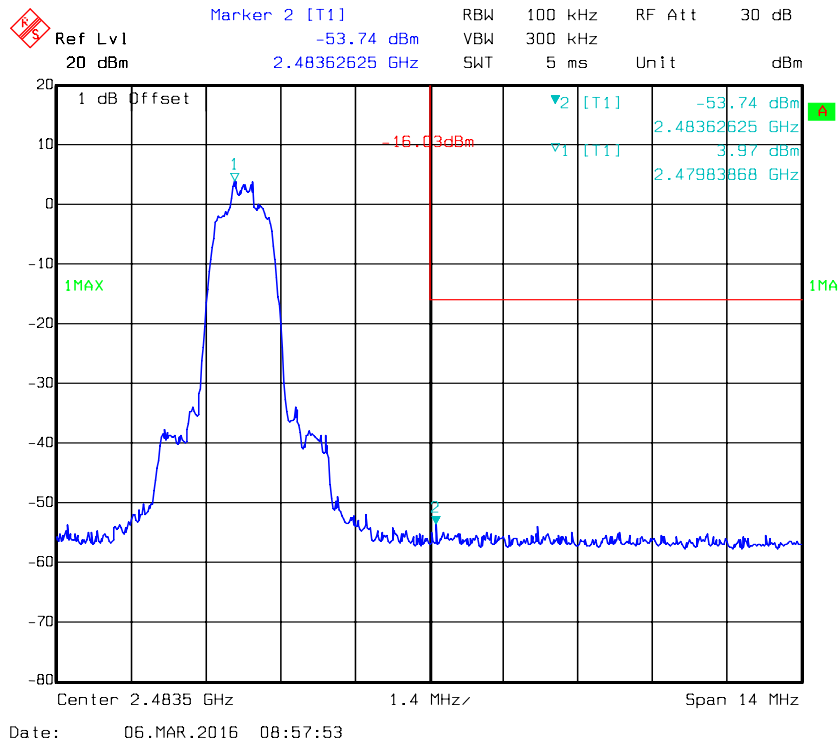


EDR Mode ( $\pi/4$ -DQPSK):

### Band Edge, Left Side

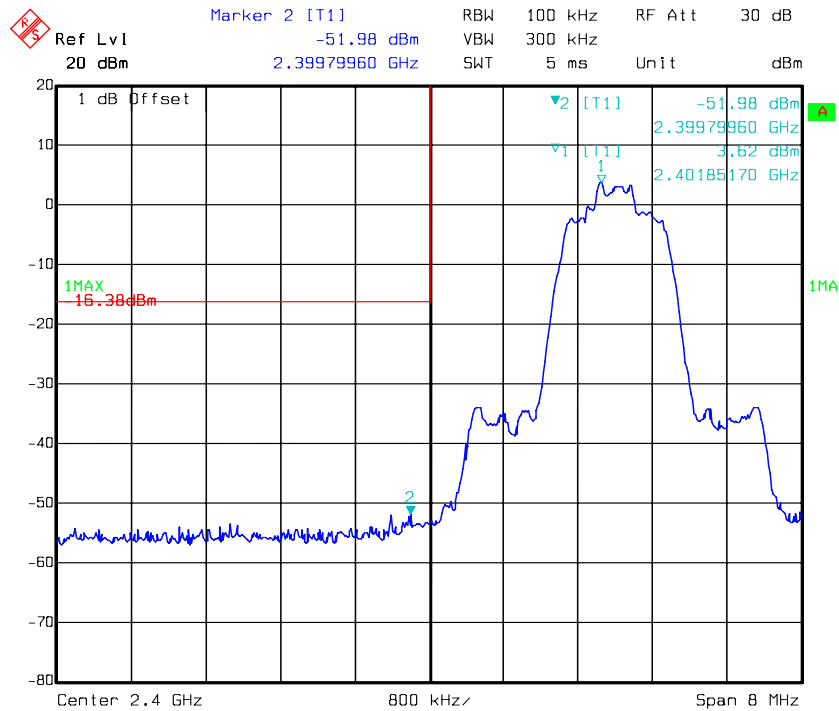


### Band Edge, Right Side

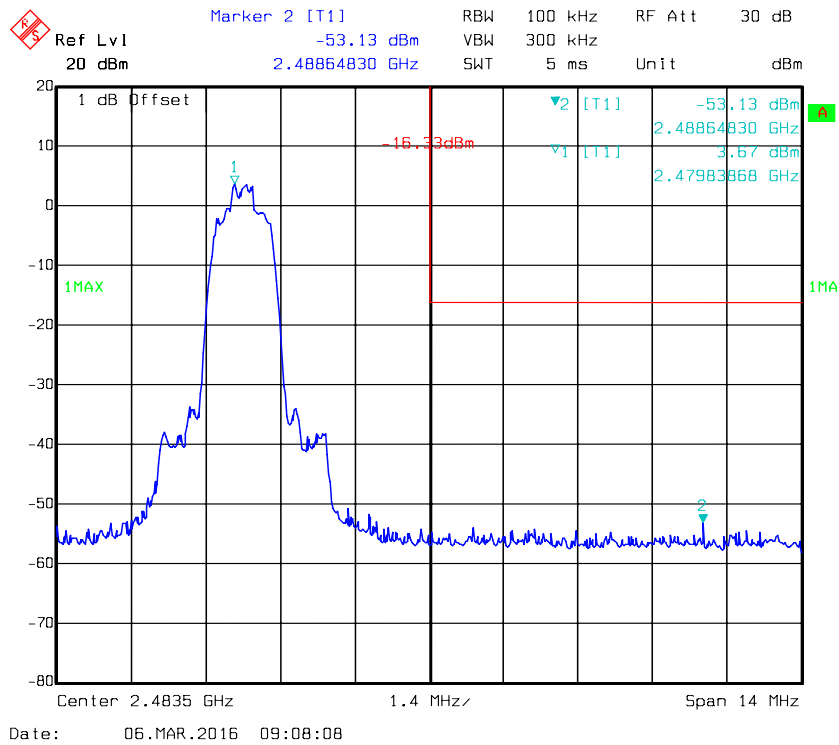


EDR Mode (8-DPSK):

## Band Edge, Left Side



## Band Edge, Right Side



## DECLARATION LETTER



Posh Mobile Limited

Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom,  
Kowloon, Hong Kong

Tel: 0085221229685

Fax: 0085239044979

### DECLARATION OF SIMILARITY

Date: 2016-3-4

FEDERAL COMMUNICATIONS COMMISSION

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046

Dear Sir or Madam:

We, Posh Mobile Limited, hereby authorize Bay Area Compliance Laboratories Corp.  
to act as a laboratory for testing and test report generation for the following project(s):

(Product name: Equal Pro LTE FCC ID: 2ABN6L700)

The detail information, please check the reports. hereby declare that the model: L700 is  
electrically identical with the model: L700A which was tested by BACL with the  
same electromagnetic emissions and electromagnetic compatibility characteristics.  
The results of which are featured in BACL projects: RDG160304003,  
RDG160304003-20

A description of the differences between the two models and that are declared similar  
are as follows:

They are same motherboard, and just have the different model name, and L700A has  
Band4, L700 no has Band4.

The detail information, please check the reports.

Sincerely,

K.N.Chong

Manager

E-mail: poshmobileltd@yahoo.com

Tel: 0085221229685

Add: 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom,  
Kowloon, Hong Kong



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