

FCC PART 15.247

TEST REPORT

For

MAXWEST INTERNATIONAL LIMITED.

No.1,Longgang Road,Buji, Longgang, Shenzhen,China

FCC ID: 2AEN3UNOM6

Report Type: Original Report	Product Name: Mobile Phone
Report Number: RDG170830001-00B	
Report Date: 2017-09-21	
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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 **MAXWEST INTERNATIONAL LIMITED.**'s product, model number: **UNO M6 (FCC ID: 2AEN3UNOM6)** (the "EUT") in this report was a **Mobile Phone**, which was measured approximately: 11.6 cm (L) x 4.8 cm (W) x 1.5 cm (H), rated input voltage: DC3.7V from Battery or DC 5V from adapter.

Adapter Information:

INPUT: AC 100-240V, 50/60Hz

OUTPUT: DC 5V $\pm$ 5 %, 350mA

**All measurement and test data in this report was gathered from production sample serial number: 170830001 (Assigned by BACL,Dongguan). The EUT was received on 2017-08-30.*

Objective

This report is prepared on behalf of **MAXWEST INTERNATIONAL LIMITED.** in accordance with Part 2, Subpart J, Part 15, Subparts A 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 Rules 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: 2AEN3UNOM6.

FCC Part 22H, 24E PCE submissions with FCC ID: 2AEN3UNOM6.

Test Methodology

All measurements detailed in this Test Report were performed in accordance 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).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 0.61\text{dB}$
Unwanted Emissions, radiated	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~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	$\pm 1.5\text{dB}$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

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 Industry Area, Tangxia, Dongguan, Guangdong, China

Bay Area Compliance Laboratories Corp. (Dongguan) has been accredited to ISO 17025 by CNAS(Lab code: L5662). And accredited to ISO 17025 by NVLAP(Test Laboratory Accreditation Certificate Number 500069-0), the FCC Designation No. CN5002 under the KDB 974614 D01.

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.

Bay Area Compliance Laboratories Corp. (Dongguan) was registered with ISED Canada under ISED Canada Registration Number 3062D.

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 level as default setting.

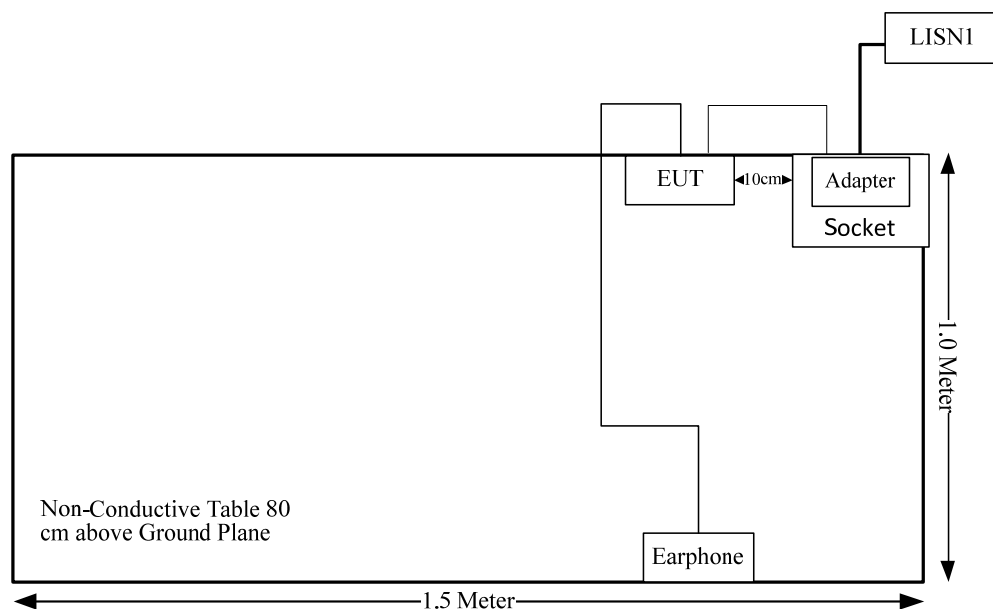
Equipment Modifications

No modification was made to the EUT.

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	To
USB Cable	yes	no	0.5	Adapter	EUT
Earphone Cable	no	no	1.2	EUT	Earphone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§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

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

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 ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
 ≤ 3.0 for 1-g SAR and ≤ 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 ≤ 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 max conducted power including tune-up tolerance is 2.0 dBm (1.58 mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 1.58/5 \cdot (\sqrt{2.480}) = 0.5 < 3.0$

So the stand-alone SAR evaluation is not necessary.

FCC §15.203 - ANTENNA REQUIREMENT

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 BT, and the antenna gain is 1.0dBi, 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(a)

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 the main LISN with a 120 V/60 Hz AC 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 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	2016-12-08	2017-12-08
R&S	L.I.S.N	ESH2-Z5	892107/021	2017-09-01	2018-09-01
R&S	Two-line V-network	ENV 216	3560.6550.12	2016-12-08	2017-12-08
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
Unknown	Coaxial Cable	2m	Con-1	2016-09-05	2017-09-05

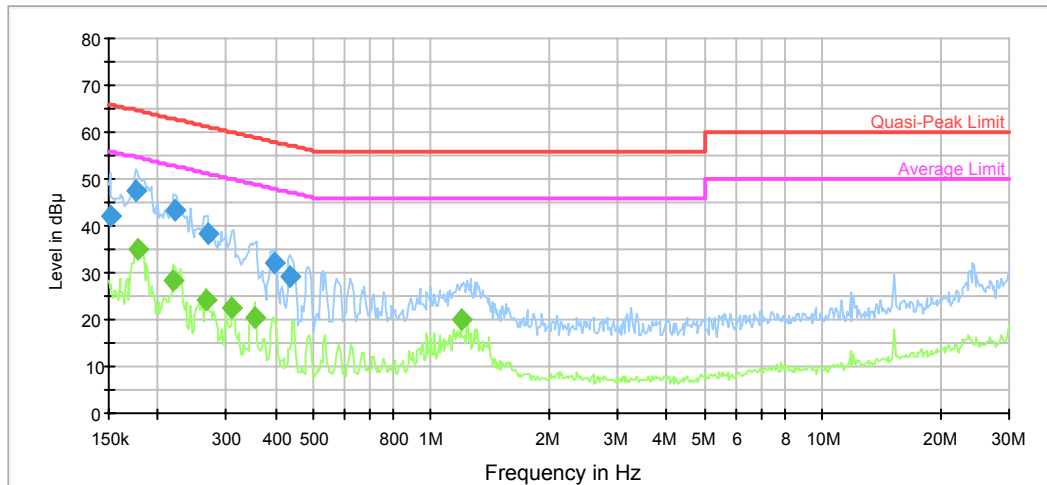
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

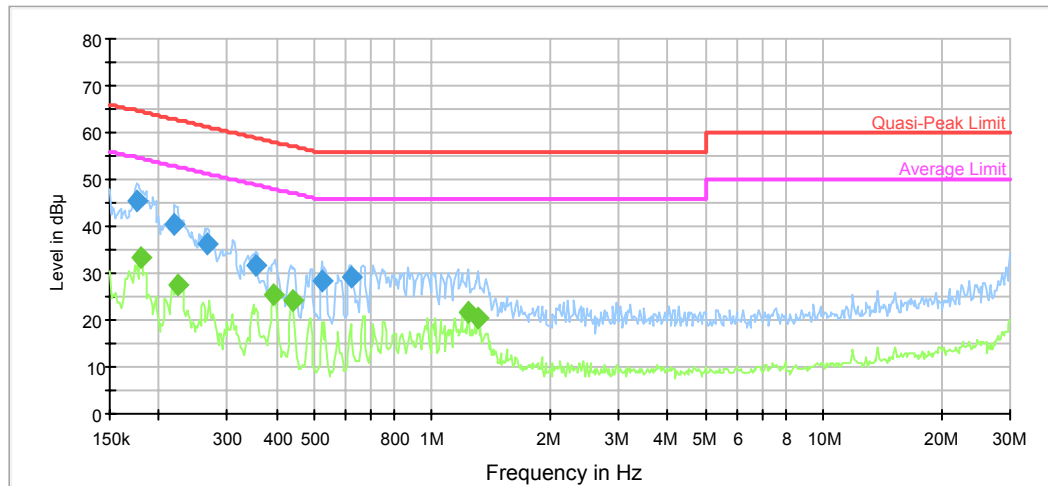
Temperature:	27.3 °C
Relative Humidity:	50 %
ATM Pressure:	99.8 kPa

The testing was performed by Alex You on 2017-09-04.

Test Mode: Transmitting**AC120V, 60 Hz, Line:**

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.151200	42.0	9.000	L1	11.2	23.9	65.9	Compliance
0.175915	47.7	9.000	L1	10.8	17.0	64.7	Compliance
0.221645	43.2	9.000	L1	10.5	19.6	62.8	Compliance
0.268355	38.2	9.000	L1	10.2	23.0	61.2	Compliance
0.399703	32.1	9.000	L1	10.0	25.8	57.9	Compliance
0.436318	29.1	9.000	L1	9.9	28.0	57.1	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.178741	35.0	9.000	L1	10.8	19.5	54.5	Compliance
0.219886	28.4	9.000	L1	10.5	24.4	52.8	Compliance
0.266226	24.2	9.000	L1	10.3	27.0	51.2	Compliance
0.309742	22.3	9.000	L1	10.1	27.7	50.0	Compliance
0.354674	20.4	9.000	L1	10.0	28.5	48.9	Compliance
1.190776	19.8	9.000	L1	9.7	26.2	46.0	Compliance

AC120V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.175915	45.6	9.000	N	10.8	19.1	64.7	Compliance
0.219886	40.5	9.000	N	10.5	22.3	62.8	Compliance
0.266226	36.5	9.000	N	10.3	24.7	61.2	Compliance
0.354674	31.5	9.000	N	10.0	27.4	58.9	Compliance
0.524077	28.4	9.000	N	9.9	27.6	56.0	Compliance
0.619536	29.1	9.000	N	9.8	26.9	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.180171	33.4	9.000	N	10.8	21.1	54.5	Compliance
0.225205	27.4	9.000	N	10.5	25.2	52.6	Compliance
0.393383	25.3	9.000	N	10.0	22.7	48.0	Compliance
0.439808	24.3	9.000	N	9.9	22.8	47.1	Compliance
1.239175	21.6	9.000	N	9.7	24.4	46.0	Compliance
1.310256	20.5	9.000	N	9.7	25.5	46.0	Compliance

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

Applicable Standard

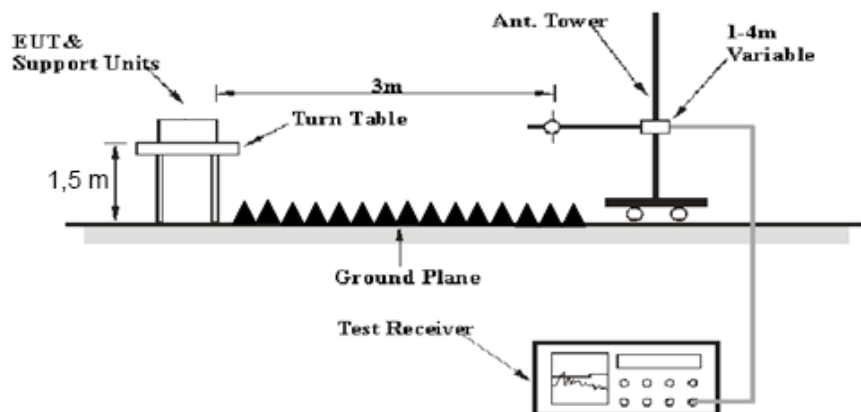
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission Below 1GHz tests were performed in the 3 meters chamber test site, above 1GHz tests were performed in the 3 meters chamber 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	/	AV

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	2017-09-01	2018-08-31
Sunol Sciences	Antenna	JB3	A060611-1	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2017-09-01	2018-09-01
R&S	Spectrum Analyzer	FSU 26	200256	2016-12-08	2017-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-06-16	2020-06-15
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2016-09-05	2017-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2016-09-06	2017-09-06
Unknown	Coaxial Cable	Chamber A-1	4m	2016-09-05	2017-09-05
Unknown	Coaxial Cable	Chamber B-1	0.75m	2016-09-05	2017-09-05
Unknown	Coaxial Cable	Chamber A-2	10m	2016-09-05	2017-09-05
Unknown	Coaxial Cable	Chamber B-2	8m	2016-09-05	2017-09-05
Farad	Test Software	EZ-EMC	V1.1.4.2	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).

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:

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

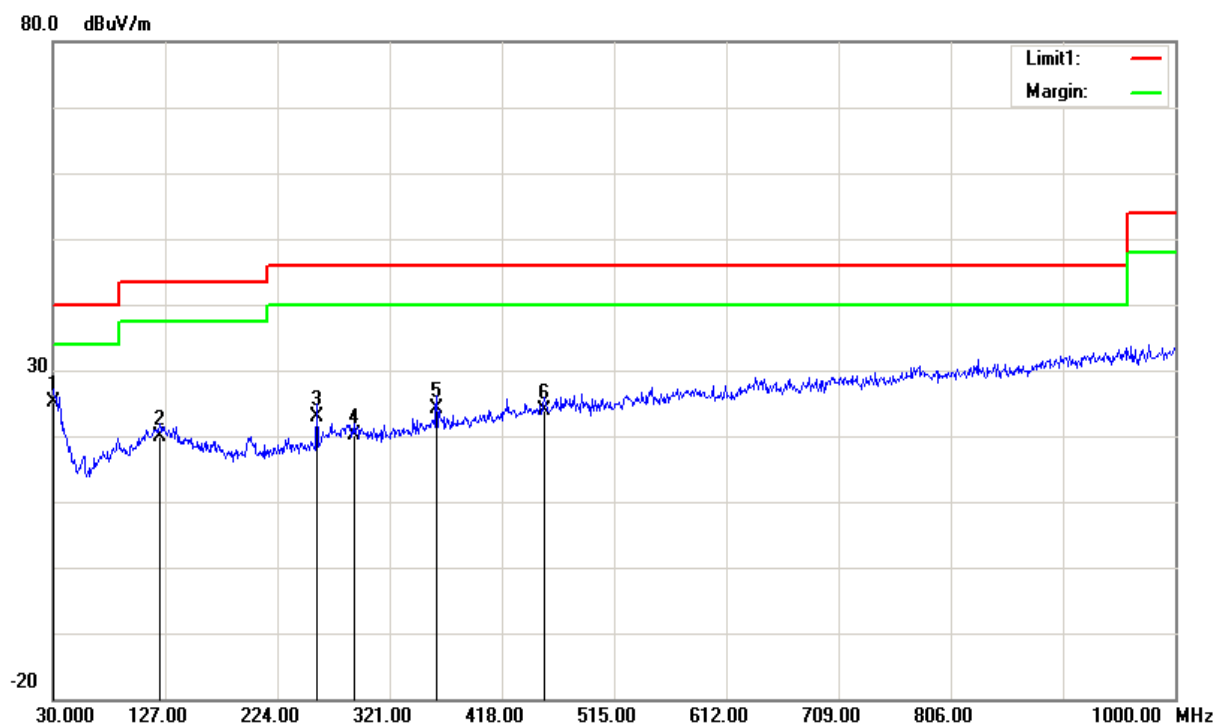
Test Data

Environmental Conditions

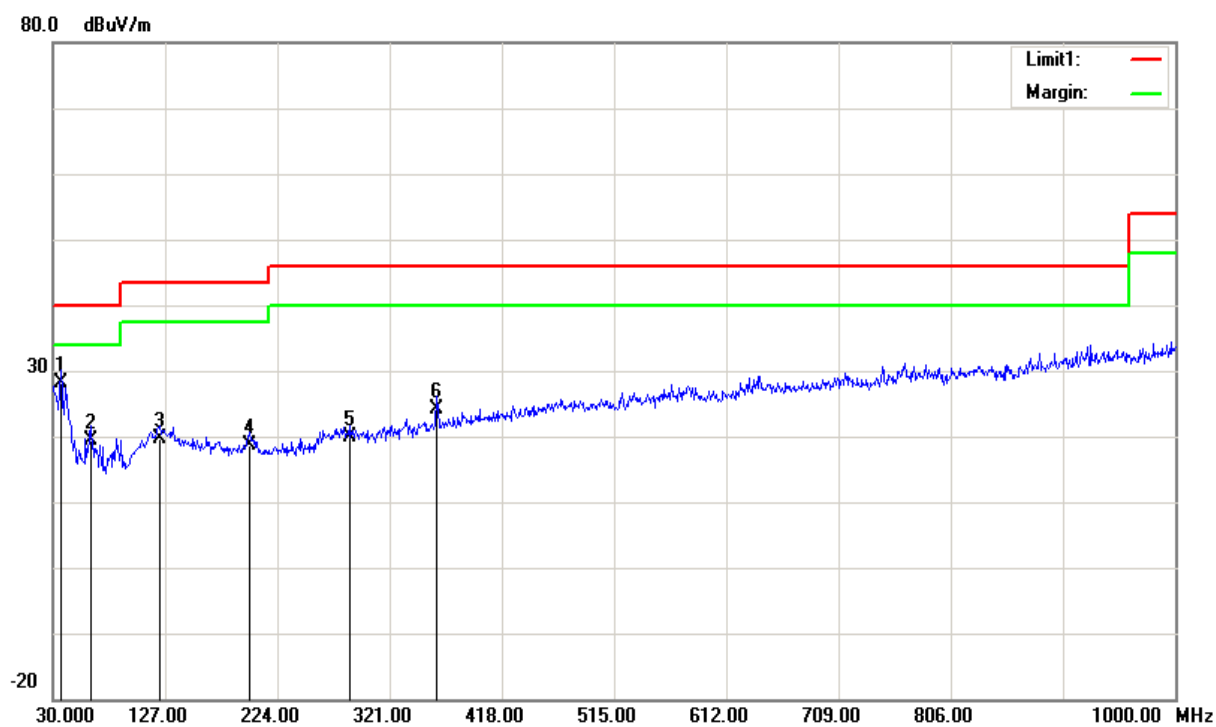
Temperature:	29.1 °C
Relative Humidity:	44 %
ATM Pressure:	99.8 kPa

** The testing was performed by Tony Zeng on 2017-09-04.*

Test Mode: Transmitting

1) 30MHz-1GHz(8DPSK Low channel was the worst)**Horizontal:**

Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.0000	24.13	QP	1.07	25.20	40.00	14.80
122.1500	24.63	QP	-4.73	19.90	43.50	23.60
257.9500	28.72	QP	-5.82	22.90	46.00	23.10
289.9600	24.15	QP	-4.05	20.10	46.00	25.90
361.7400	27.16	QP	-3.06	24.10	46.00	21.90
454.8600	25.26	QP	-1.46	23.80	46.00	22.20

Vertical:

Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
36.7900	32.01	QP	-3.91	28.10	40.00	11.90
62.9800	31.65	QP	-12.15	19.50	40.00	20.50
122.1500	24.43	QP	-4.73	19.70	43.50	23.80
199.7500	25.02	QP	-6.32	18.70	43.50	24.80
286.0800	23.82	QP	-4.02	19.80	46.00	26.20
361.7400	27.16	QP	-3.06	24.10	46.00	21.90

2) 1GHz-25GHz:*BDR Mode (GFSK):*

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	67.44	PK	H	28.10	3.11	0.00	98.65	N/A	N/A
2402	51.09	AV	H	28.10	3.11	0.00	82.30	N/A	N/A
2402	59.95	PK	V	28.10	3.11	0.00	91.16	N/A	N/A
2402	46.87	AV	V	28.10	3.11	0.00	78.08	N/A	N/A
2390	25.36	PK	H	28.08	3.10	0.00	56.54	74.00	17.46
2390	13.52	AV	H	28.08	3.10	0.00	44.70	54.00	9.30
4804	45.53	PK	H	32.91	4.30	35.48	47.26	74.00	26.74
4804	32.15	AV	H	32.91	4.30	35.48	33.88	54.00	20.12
7206	50.57	PK	H	35.74	5.45	35.97	55.79	74.00	18.21
7206	40.12	AV	H	35.74	5.45	35.97	45.34	54.00	8.66
3748	45.58	PK	H	31.85	3.77	35.20	46.00	74.00	28.00
3748	32.61	AV	H	31.85	3.77	35.20	33.03	54.00	20.97
Middle Channel: 2441 MHz									
2441	68.15	PK	H	28.18	3.11	0.00	99.44	N/A	N/A
2441	52.73	AV	H	28.18	3.11	0.00	84.02	N/A	N/A
2441	58.76	PK	V	28.18	3.11	0.00	90.05	N/A	N/A
2441	47.61	AV	V	28.18	3.11	0.00	78.90	N/A	N/A
4882	45.21	PK	H	33.06	4.40	35.54	47.13	74.00	26.87
4882	32.26	AV	H	33.06	4.40	35.54	34.18	54.00	19.82
7323	50.26	PK	H	36.04	5.53	35.98	55.85	74.00	18.15
7323	40.07	AV	H	36.04	5.53	35.98	45.66	54.00	8.34
3917	45.59	PK	H	32.22	3.83	35.31	46.33	74.00	27.67
3917	32.37	AV	H	32.22	3.83	35.31	33.11	54.00	20.89
4125	45.67	PK	H	32.38	4.00	35.33	46.72	74.00	27.28
4125	32.19	AV	H	32.38	4.00	35.33	33.24	54.00	20.76
High Channel: 2480 MHz									
2480	68.44	PK	H	28.26	3.10	0.00	99.80	N/A	N/A
2480	52.22	AV	H	28.26	3.10	0.00	83.58	N/A	N/A
2480	59.27	PK	V	28.26	3.10	0.00	90.63	N/A	N/A
2480	47.95	AV	V	28.26	3.10	0.00	79.31	N/A	N/A
2483.5	40.25	PK	H	28.27	3.10	0.00	71.62	74.00	2.38
2483.5	14.23	AV	H	28.27	3.10	0.00	45.60	54.00	8.40
4960	45.74	PK	H	33.22	4.42	35.60	47.78	74.00	26.22
4960	32.96	AV	H	33.22	4.42	35.60	35.00	54.00	19.00
7440	50.24	PK	H	36.34	5.60	35.99	56.19	74.00	17.81
7440	40.01	AV	H	36.34	5.60	35.99	45.96	54.00	8.04
3585	45.58	PK	H	31.49	3.72	35.09	45.70	74.00	28.30
3585	32.51	AV	H	31.49	3.72	35.09	32.63	54.00	21.37

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

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	68.16	PK	H	28.10	3.11	0.00	99.37	N/A	N/A
2402	51.84	AV	H	28.10	3.11	0.00	83.05	N/A	N/A
2402	59.72	PK	V	28.10	3.11	0.00	90.93	N/A	N/A
2402	47.45	AV	V	28.10	3.11	0.00	78.66	N/A	N/A
2390	26.35	PK	H	28.08	3.10	0.00	57.53	74.00	16.47
2390	14.25	AV	H	28.08	3.10	0.00	45.43	54.00	8.57
4804	46.32	PK	H	32.91	4.30	35.48	48.05	74.00	25.95
4804	32.61	AV	H	32.91	4.30	35.48	34.34	54.00	19.66
7206	50.54	PK	H	35.74	5.45	35.97	55.76	74.00	18.24
7206	40.31	AV	H	35.74	5.45	35.97	45.53	54.00	8.47
3514	45.58	PK	H	31.33	3.68	35.05	45.54	74.00	28.46
3514	32.47	AV	H	31.33	3.68	35.05	32.43	54.00	21.57
Middle Channel: 2441 MHz									
2441	67.84	PK	H	28.18	3.11	0.00	99.13	N/A	N/A
2441	52.88	AV	H	28.18	3.11	0.00	83.17	N/A	N/A
2441	58.69	PK	V	28.18	3.11	0.00	89.98	N/A	N/A
2441	45.63	AV	V	28.18	3.11	0.00	76.92	N/A	N/A
4882	45.98	PK	H	33.06	4.40	35.54	47.90	74.00	26.10
4882	32.57	AV	H	33.06	4.40	35.54	34.49	54.00	19.51
7323	50.28	PK	H	36.04	5.53	35.98	55.87	74.00	18.13
7323	39.98	AV	H	36.04	5.53	35.98	45.57	54.00	8.43
4517	45.74	PK	H	32.33	4.13	35.25	46.95	74.00	27.05
4517	32.41	AV	H	32.33	4.13	35.25	33.62	54.00	20.38
3629	45.66	PK	H	31.58	3.73	35.12	45.85	74.00	28.15
3629	32.92	AV	H	31.58	3.73	35.12	33.11	54.00	20.89
High Channel: 2480 MHz									
2480	68.25	PK	H	28.26	3.10	0.00	99.61	N/A	N/A
2480	51.78	AV	H	28.26	3.10	0.00	83.14	N/A	N/A
2480	59.59	PK	V	28.26	3.10	0.00	90.95	N/A	N/A
2480	49.31	AV	V	28.26	3.10	0.00	80.67	N/A	N/A
2483.5	40.64	PK	H	28.27	3.10	0.00	72.01	74.00	1.99
2483.5	13.96	AV	H	28.27	3.10	0.00	45.33	54.00	8.67
4960	45.59	PK	H	33.22	4.42	35.60	47.63	74.00	26.37
4960	32.51	AV	H	33.22	4.42	35.60	34.55	54.00	19.45
7440	50.24	PK	H	36.34	5.60	35.99	56.19	74.00	17.81
7440	40.03	AV	H	36.34	5.60	35.99	45.98	54.00	8.02
3598	45.28	PK	H	31.52	3.73	35.10	45.43	74.00	28.57
3598	32.65	AV	H	31.52	3.73	35.10	32.80	54.00	21.20

EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB)					
Low Channel: 2402 MHz									
2402	67.96	PK	H	28.10	3.11	0.00	99.17	N/A	N/A
2402	52.62	AV	H	28.10	3.11	0.00	83.83	N/A	N/A
2402	59.98	PK	V	28.10	3.11	0.00	91.19	N/A	N/A
2402	49.11	AV	V	28.10	3.11	0.00	80.32	N/A	N/A
2390	25.24	PK	H	28.08	3.10	0.00	56.42	74.00	17.58
2390	13.87	AV	H	28.08	3.10	0.00	45.05	54.00	8.95
4804	45.61	PK	H	32.91	4.30	35.48	47.34	74.00	26.66
4804	32.52	AV	H	32.91	4.30	35.48	34.25	54.00	19.75
7206	51.41	PK	H	35.74	5.45	35.97	56.63	74.00	17.37
7206	40.11	AV	H	35.74	5.45	35.97	45.33	54.00	8.67
3198	47.24	PK	H	30.58	3.55	35.20	46.17	74.00	27.83
3198	33.56	AV	H	30.58	3.55	35.20	32.49	54.00	21.51
Middle Channel: 2441 MHz									
2441	67.79	PK	H	28.18	3.11	0.00	99.08	N/A	N/A
2441	51.59	AV	H	28.18	3.11	0.00	82.88	N/A	N/A
2441	58.74	PK	V	28.18	3.11	0.00	90.03	N/A	N/A
2441	45.76	AV	V	28.18	3.11	0.00	77.05	N/A	N/A
4882	45.69	PK	H	33.06	4.40	35.54	47.61	74.00	26.39
4882	33.21	AV	H	33.06	4.40	35.54	35.13	54.00	18.87
7323	50.24	PK	H	36.04	5.53	35.98	55.83	74.00	18.17
7323	39.58	AV	H	36.04	5.53	35.98	45.17	54.00	8.83
3254	50.12	PK	H	30.71	3.54	35.17	49.20	74.00	24.80
3254	39.06	AV	H	30.71	3.54	35.17	38.14	54.00	15.86
4458	45.38	PK	H	32.31	4.10	35.25	46.54	74.00	27.46
4458	33.08	AV	H	32.31	4.10	35.25	34.24	54.00	19.76
High Channel: 2480 MHz									
2480	67.51	PK	H	28.26	3.10	0.00	98.87	N/A	N/A
2480	51.88	AV	H	28.26	3.10	0.00	83.24	N/A	N/A
2480	58.57	PK	V	28.26	3.10	0.00	89.93	N/A	N/A
2480	46.52	AV	V	28.26	3.10	0.00	77.88	N/A	N/A
2483.5	40.05	PK	H	28.27	3.10	0.00	71.42	74.00	2.58
2483.5	14.21	AV	H	28.27	3.10	0.00	45.58	54.00	8.42
4960	45.36	PK	H	33.22	4.42	35.60	47.40	74.00	26.60
4960	32.61	AV	H	33.22	4.42	35.60	34.65	54.00	19.35
7440	52.04	PK	H	36.34	5.60	35.99	57.99	74.00	16.01
7440	41.28	AV	H	36.34	5.60	35.99	47.23	54.00	6.77
3625	45.25	PK	H	31.58	3.73	35.12	45.44	74.00	28.56
3625	32.71	AV	H	31.58	3.73	35.12	32.90	54.00	21.10

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	FSEM	831259/019	2017-7-18	2018-7-18
Unknown	RF Attenuator	3dB	3dB-1	Each Time	/
Unknown	RF Cable	Unknown	C-2	Each Time	/

* **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:	25.8°C
Relative Humidity:	47 %
ATM Pressure:	100.2 kPa

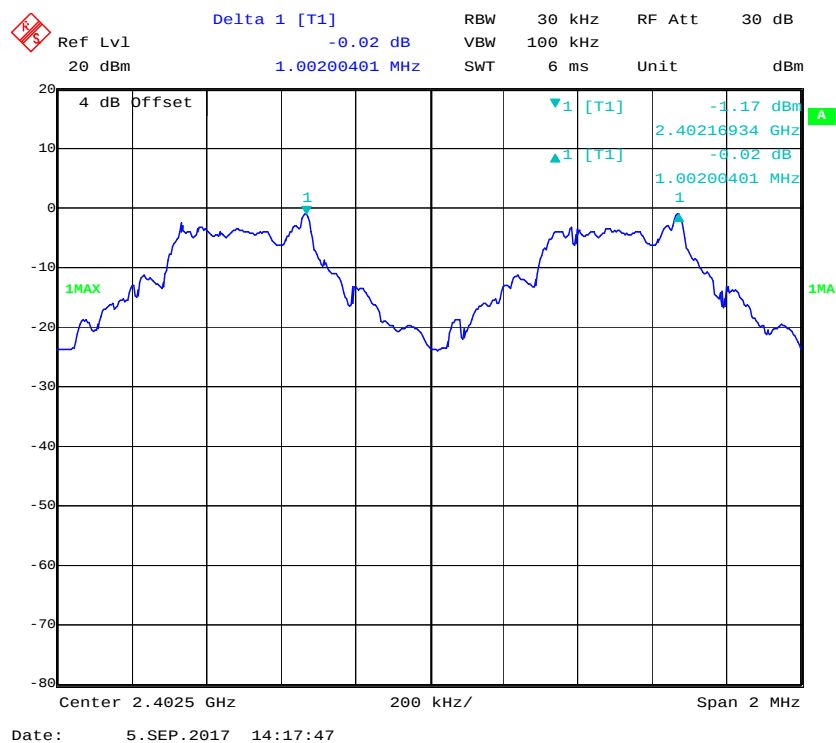
* The testing was performed by Gavin Xu on 2017-09-05.

Test Result: Compliance.

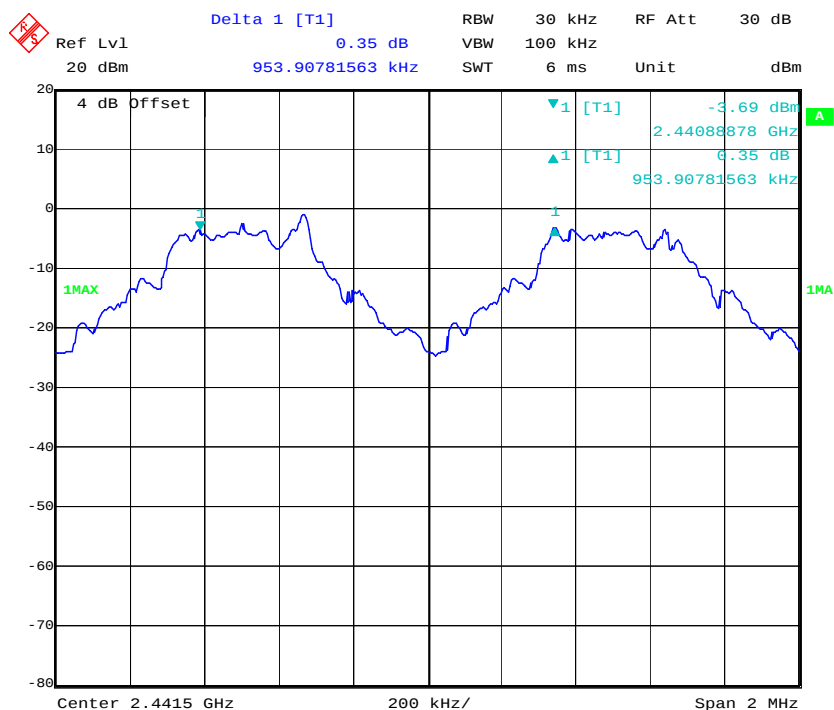
Please refer to following tables and plots

Note: Limit= $(2/3) \times 20dB$ bandwidth

Low Channel

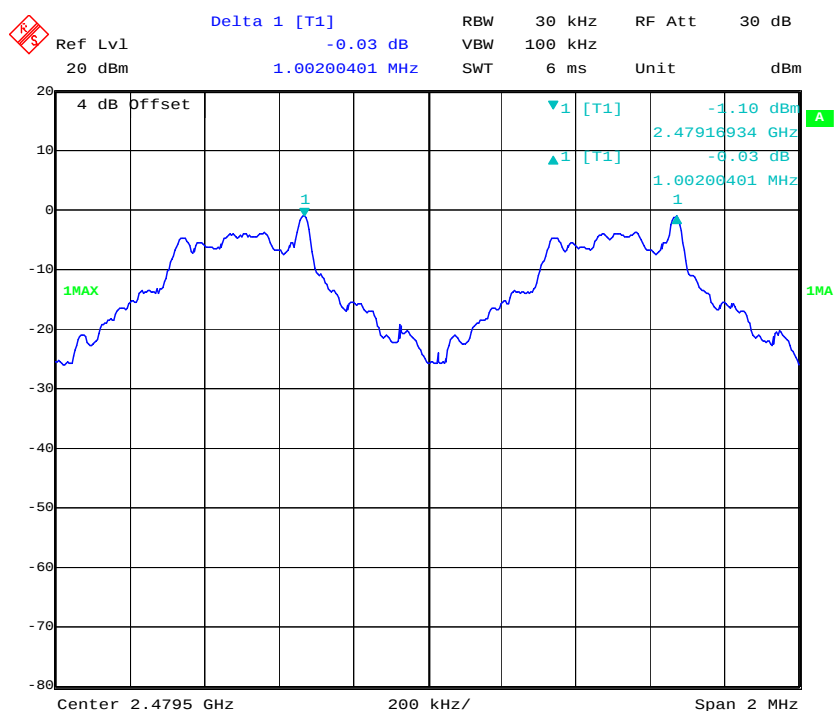


Middle Channel

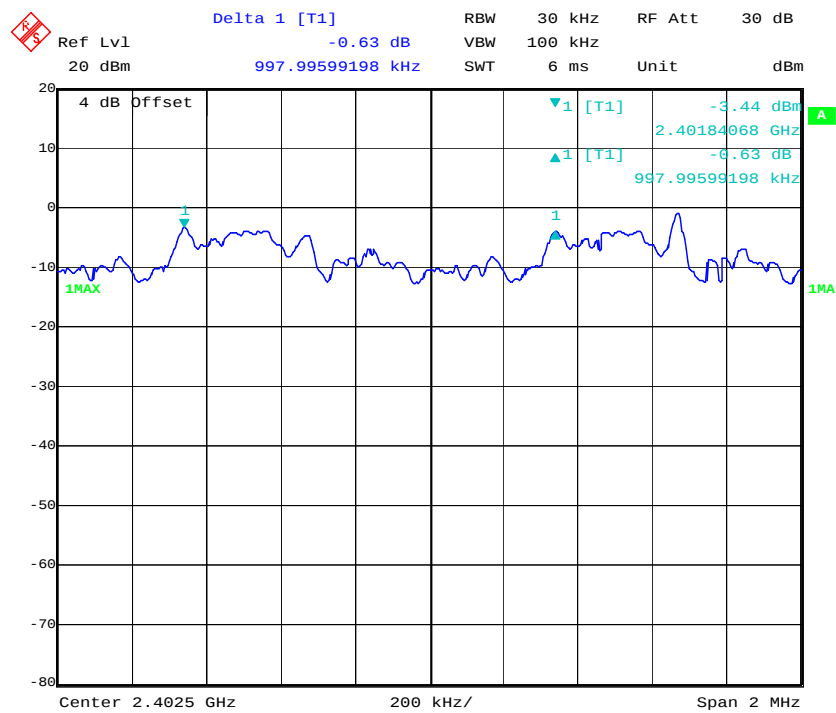


Date: 5.SEP.2017 14:19:07

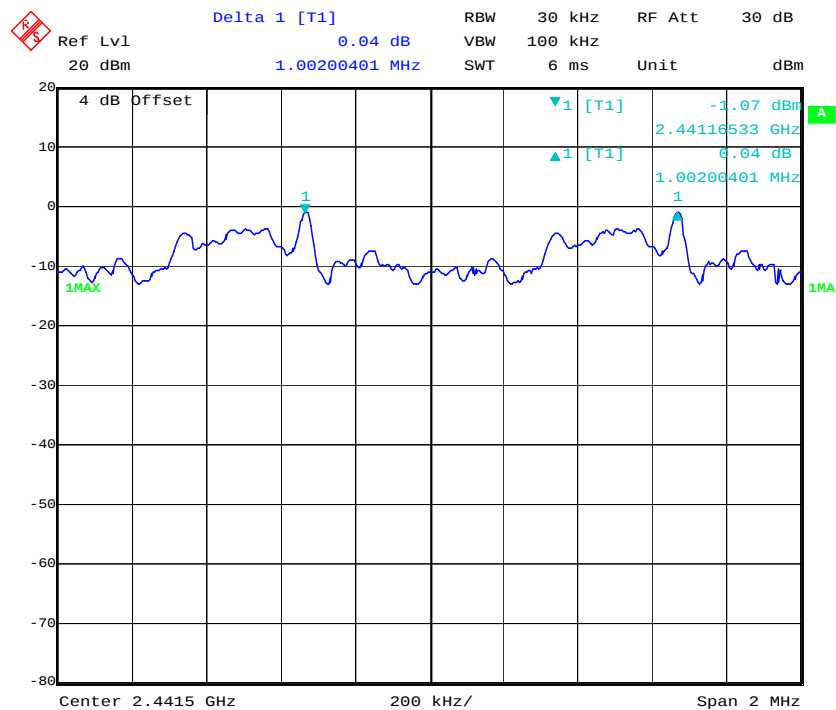
High Channel



Date: 5.SEP.2017 14:20:26

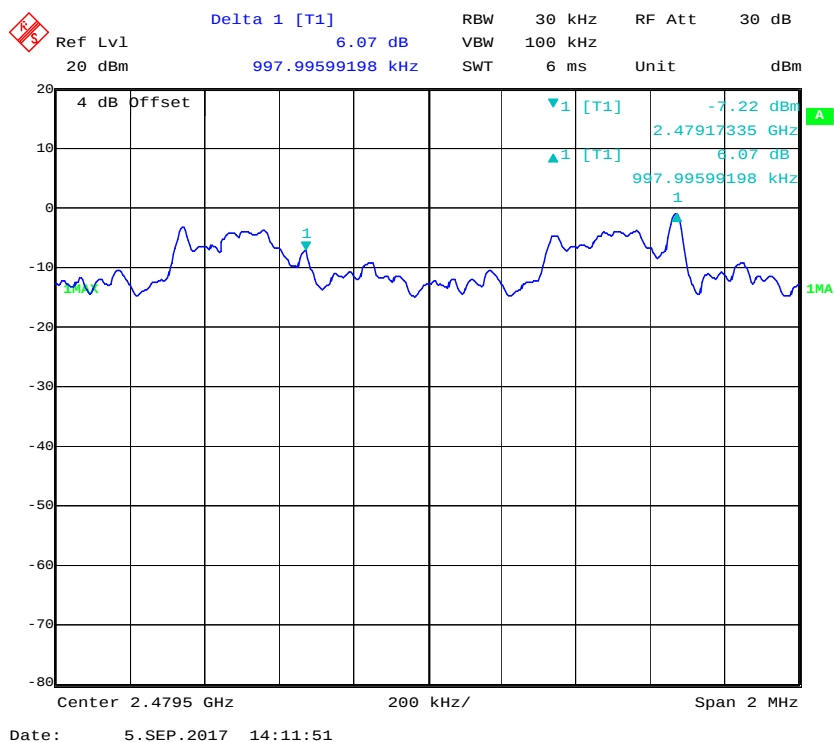
*EDR Mode ($\pi/4$ -DQPSK):***Low Channel**

Date: 5.SEP.2017 14:05:22

Middle Channel

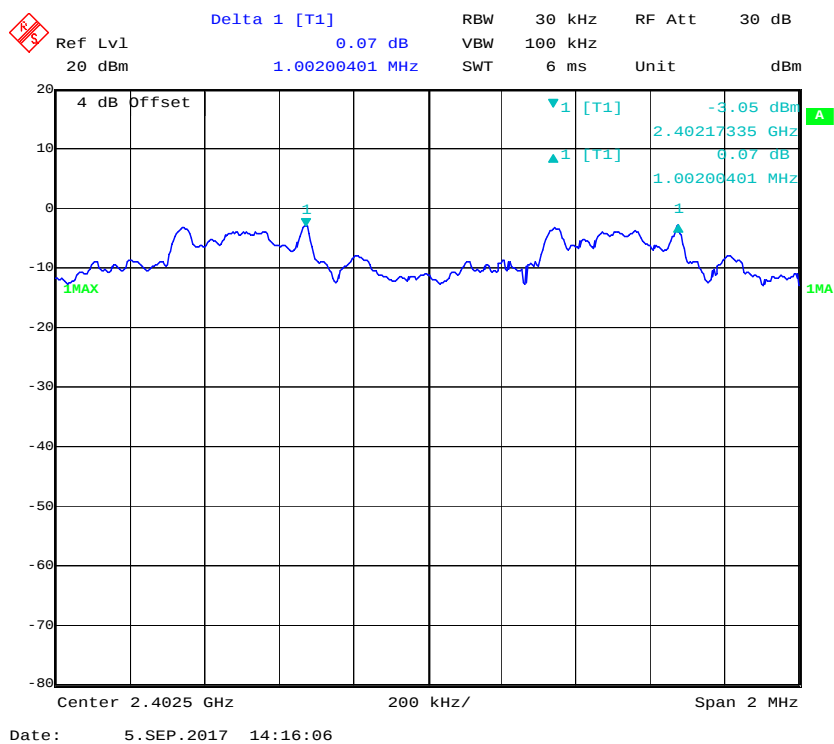
Date: 5.SEP.2017 14:10:30

High Channel

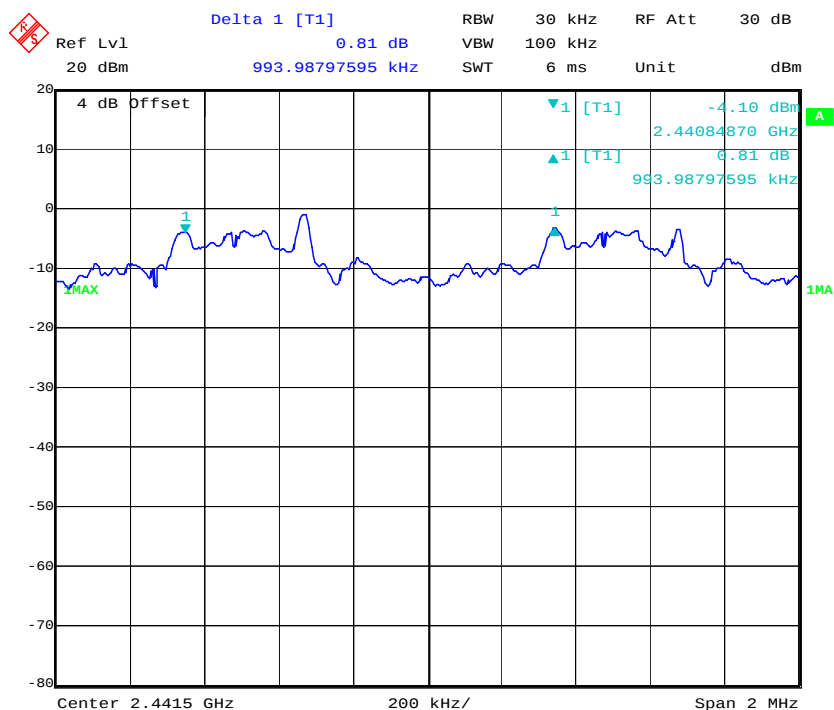


EDR Mode (8DPSK):

Low Channel

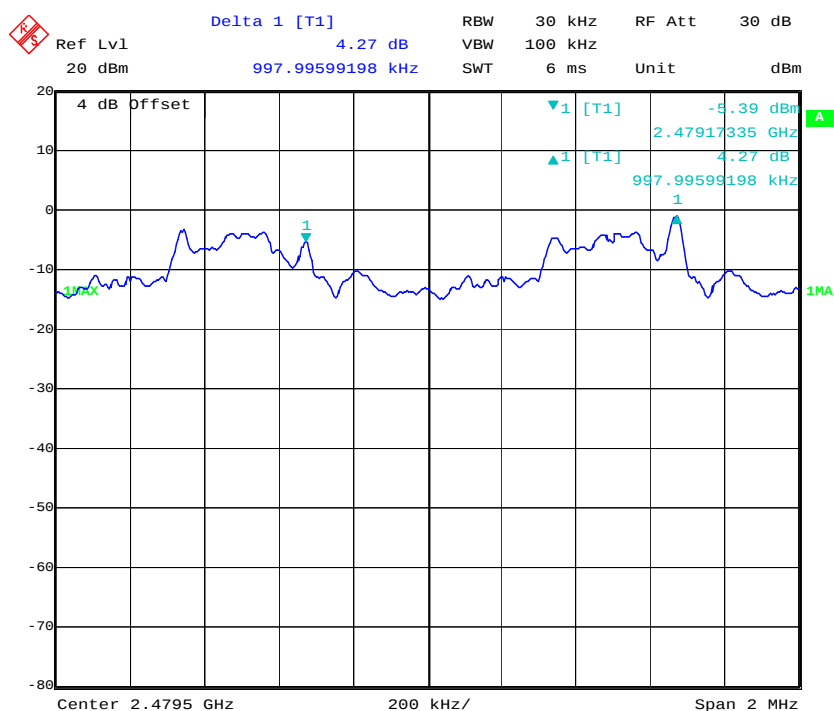


Middle Channel



Date: 5.SEP.2017 14:14:38

High Channel



Date: 5.SEP.2017 14:13:21

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	FSEM	831259/019	2017-7-18	2018-7-18
Unknown	RF Attenuator	3dB	3dB-1	Each Time	/
Unknown	RF Cable	Unknown	C-2	Each Time	/

* **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:	25.8°C
Relative Humidity:	47 %
ATM Pressure:	100.2 kPa

* The testing was performed by Gavin Xu on 2017-09-05.

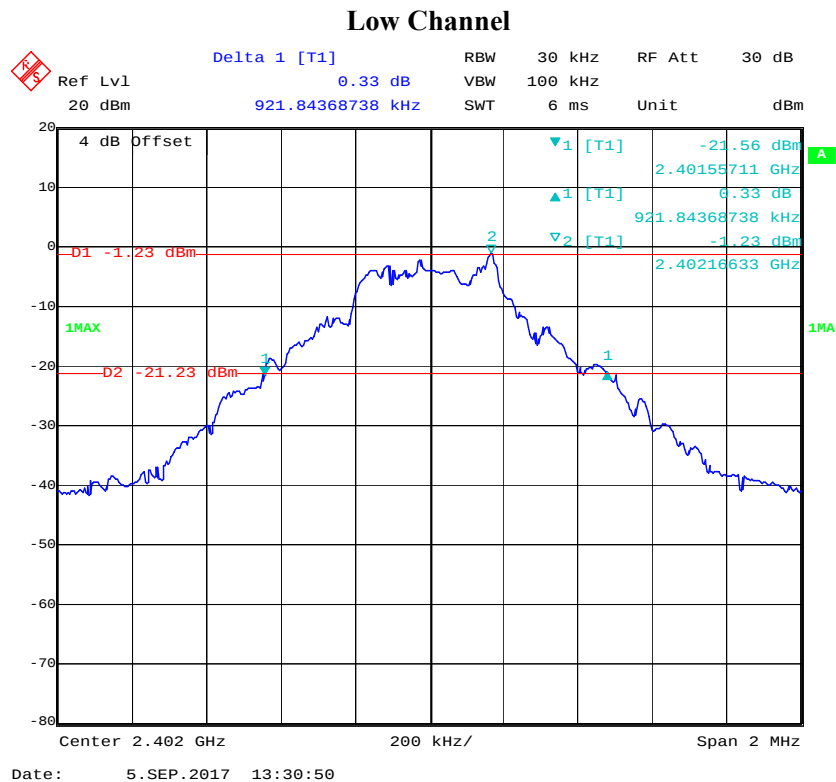
Test Result: Compliance.

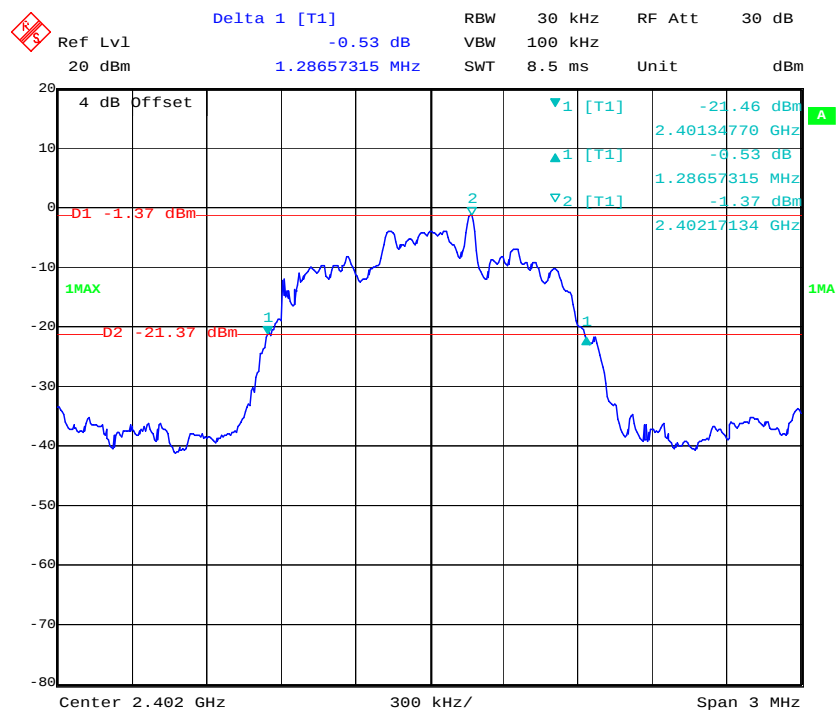
Please refer to following tables and plots

Test Mode: Transmitting

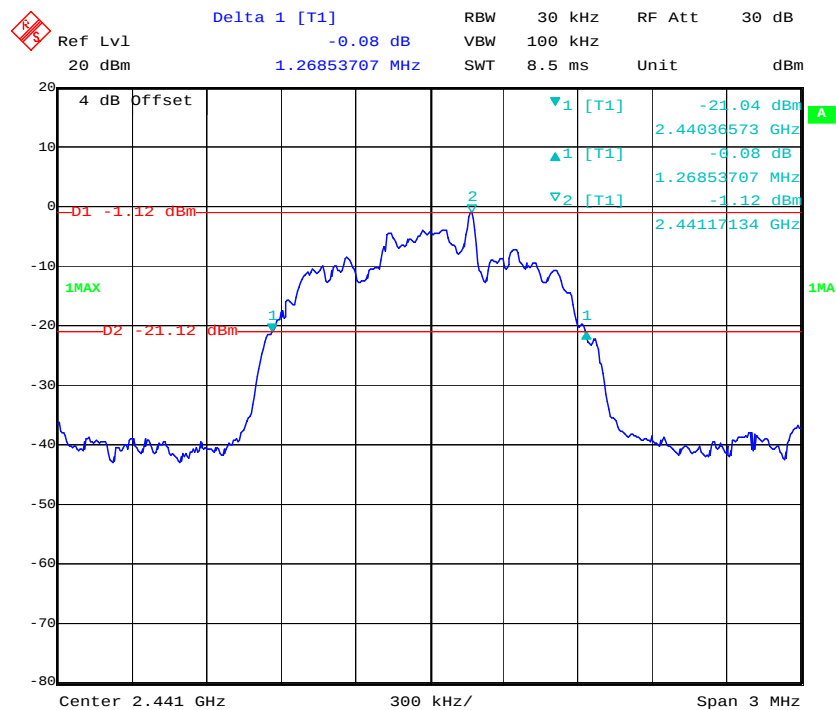
Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.92
	Middle	2441	0.91
	High	2480	0.90
EDR Mode ($\pi/4$ -DQPSK)	Low	2402	1.29
	Middle	2441	1.27
	High	2480	1.21
EDR Mode (8DPSK)	Low	2402	1.24
	Middle	2441	1.24
	High	2480	1.21

BDR Mode (GFSK):



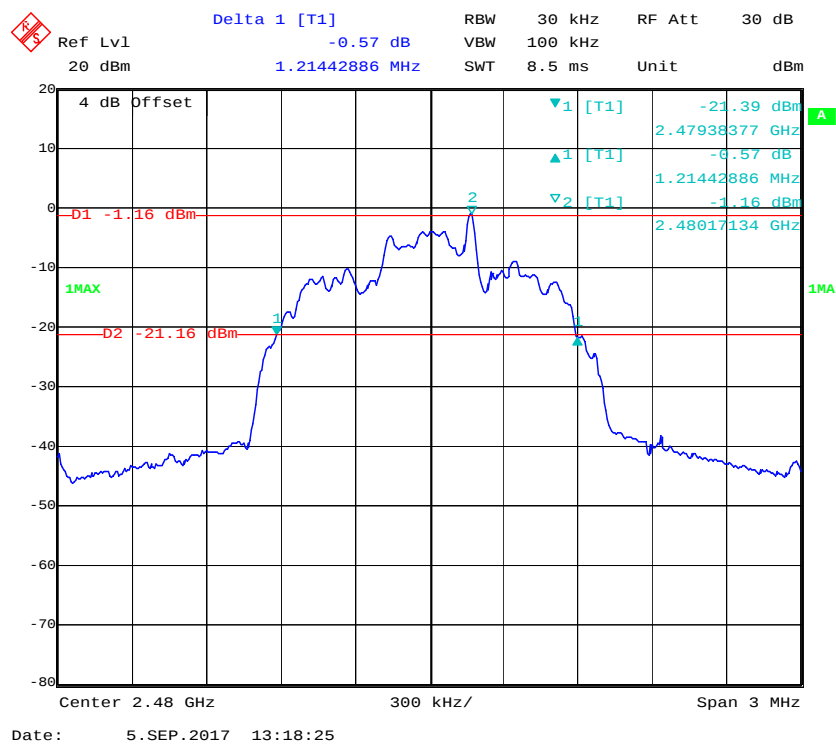
*EDR Mode ($\pi/4$ -DQPSK):***Low Channel**

Date: 5.SEP.2017 13:15:59

Middle Channel

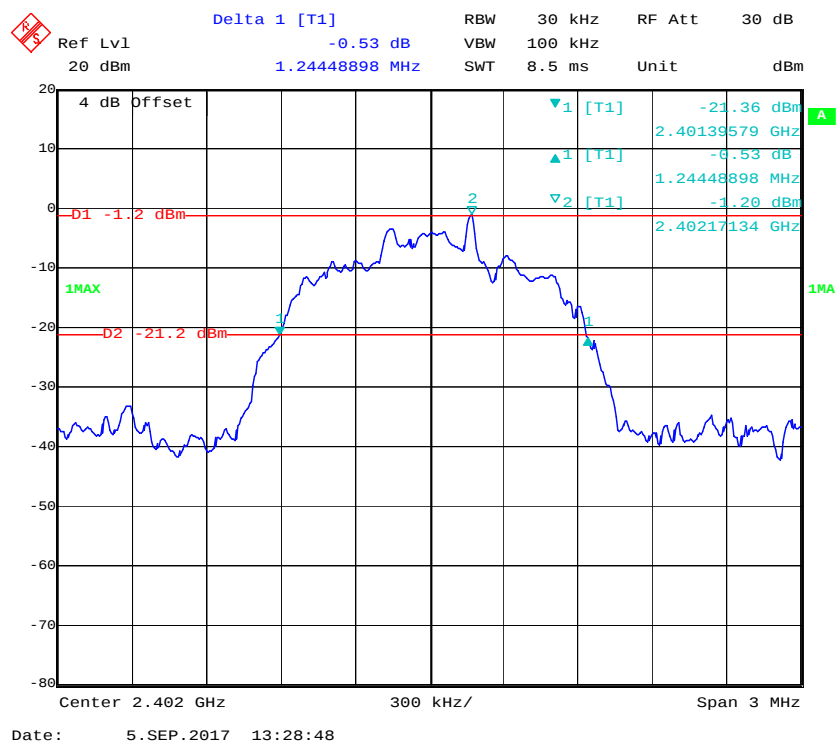
Date: 5.SEP.2017 13:17:12

High Channel

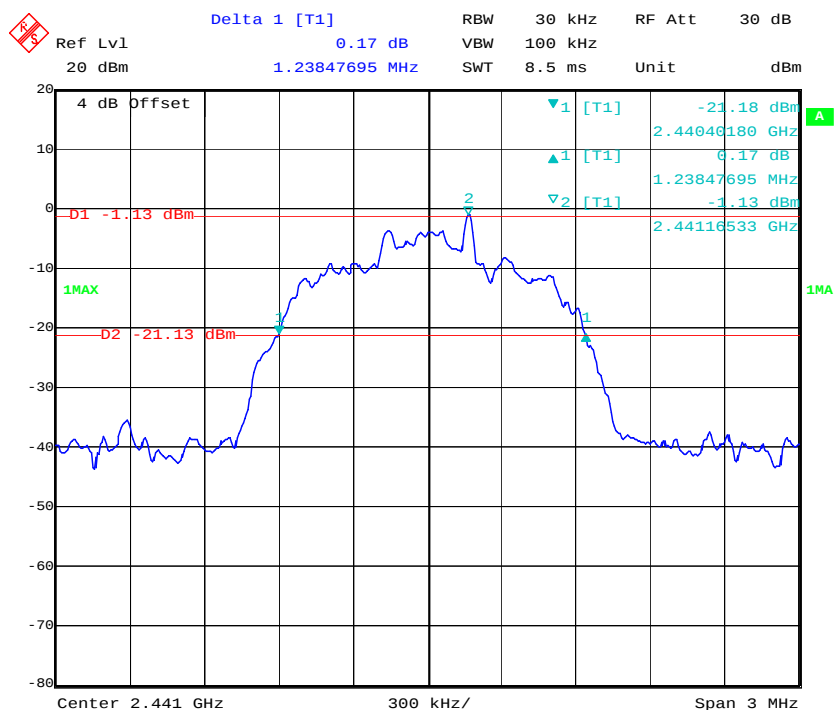


EDR Mode (8DPSK):

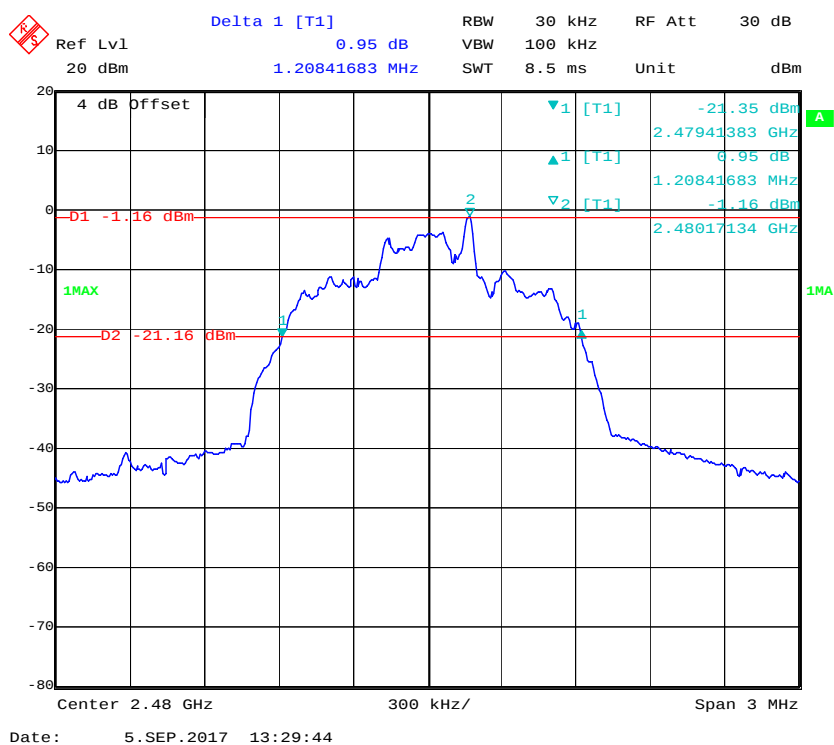
Low Channel



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
R&S	Spectrum Analyzer	FSEM	831259/019	2017-7-18	2018-7-18
Unknown	RF Attenuator	3dB	3dB-1	Each Time	/
Unknown	RF Cable	Unknown	C-2	Each Time	/

* **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:	25.8°C
Relative Humidity:	47 %
ATM Pressure:	100.2 kPa

* The testing was performed by Gavin Xu on 2017-09-05.

Test Result: Compliance.

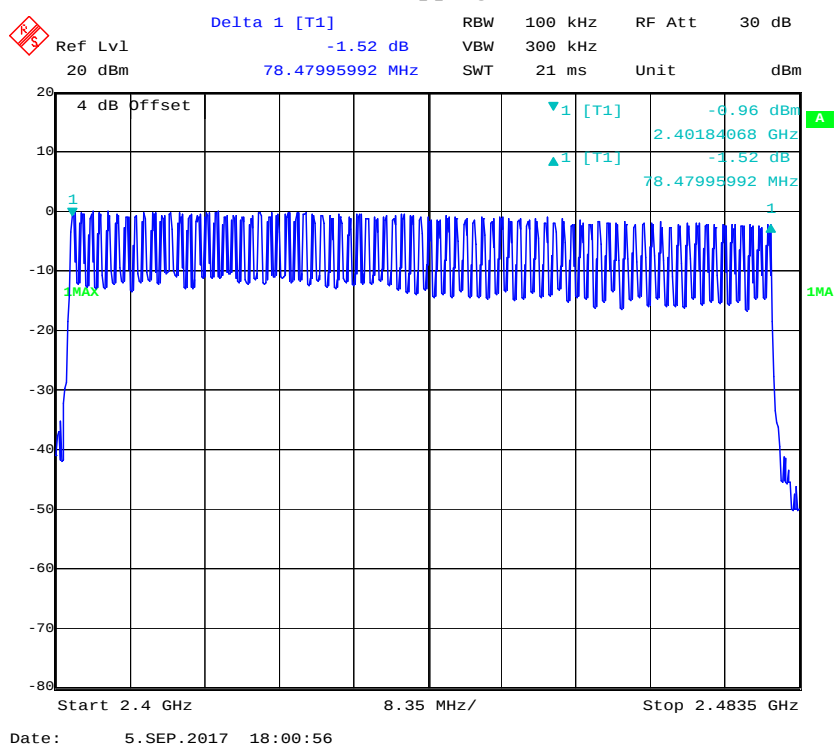
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

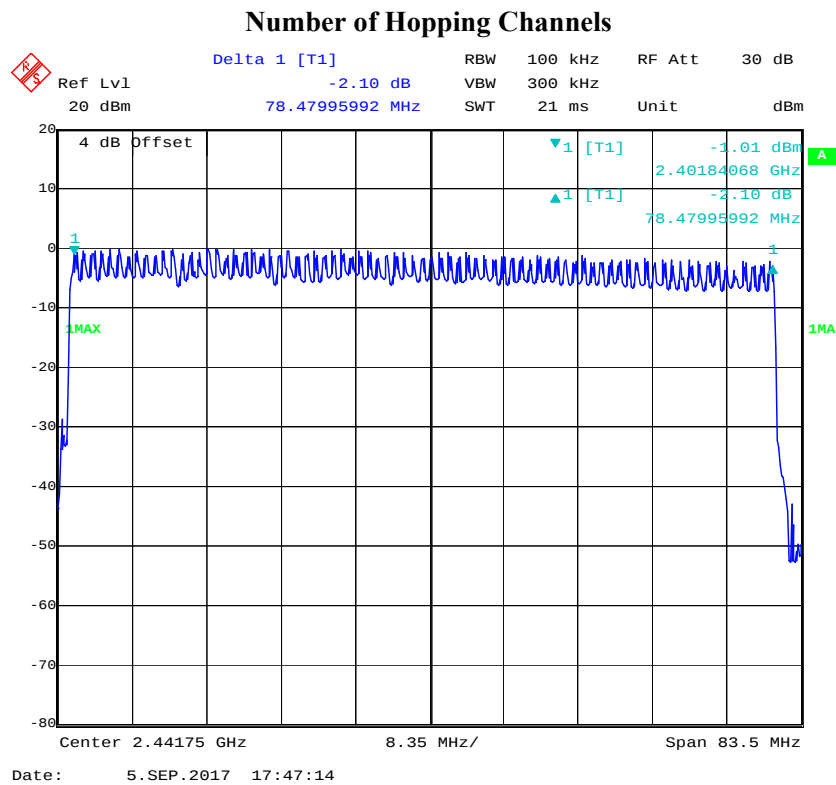
Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	≥15

Number of Hopping Channels



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

Frequency Range (MHz)	Number of Hopping Channel	Limit
2400-2483.5	79	≥ 15



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; the time of single pulses was tested.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	831259/019	2017-7-18	2018-7-18
Unknown	RF Attenuator	3dB	3dB-1	Each Time	/
Unknown	RF Cable	Unknown	C-2	Each Time	/

* **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:	25.8°C
Relative Humidity:	47 %
ATM Pressure:	100.2 kPa

* The testing was performed by Gavin Xu on 2017-09-05.

Test Result: Compliance.

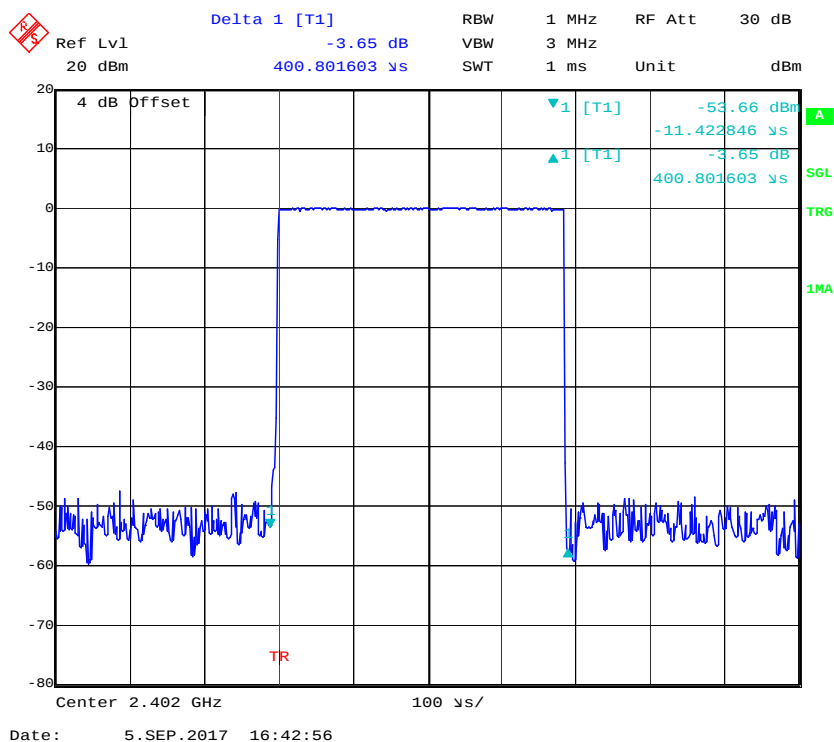
Please refer to following tables and plots

Test Mode: Transmitting

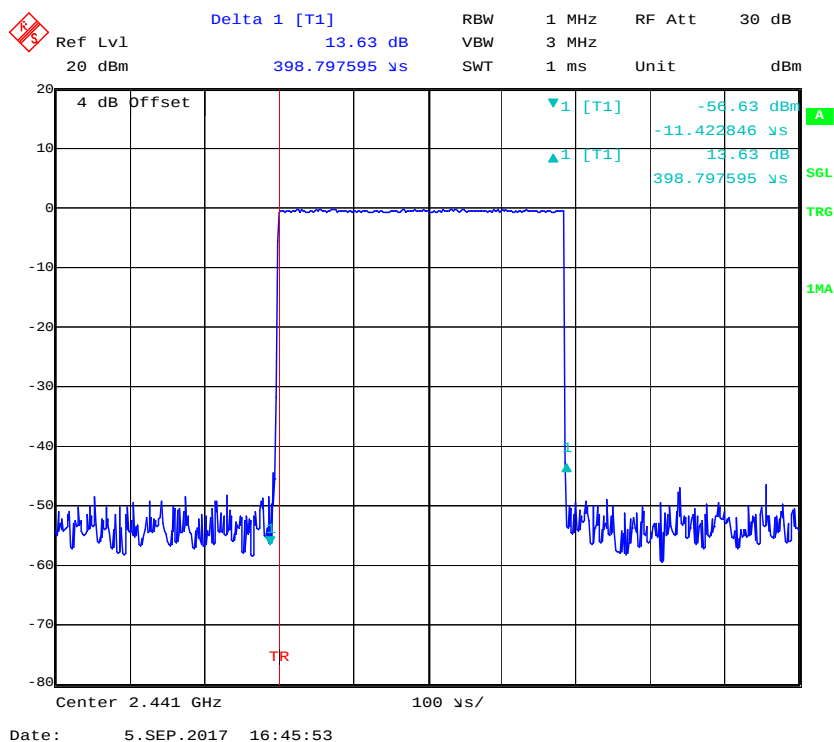
BDR Mode (GFSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.401	0.128	0.4	Compliance
	Middle	0.399	0.127	0.4	Compliance
	High	0.399	0.127	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) × 31.6 s				
DH3	Low	1.673	0.268	0.4	Compliance
	Middle	1.683	0.269	0.4	Compliance
	High	1.673	0.268	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) × 31.6 s				
DH5	Low	2.934	0.313	0.4	Compliance
	Middle	2.924	0.312	0.4	Compliance
	High	2.944	0.314	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) × 31.6 s				

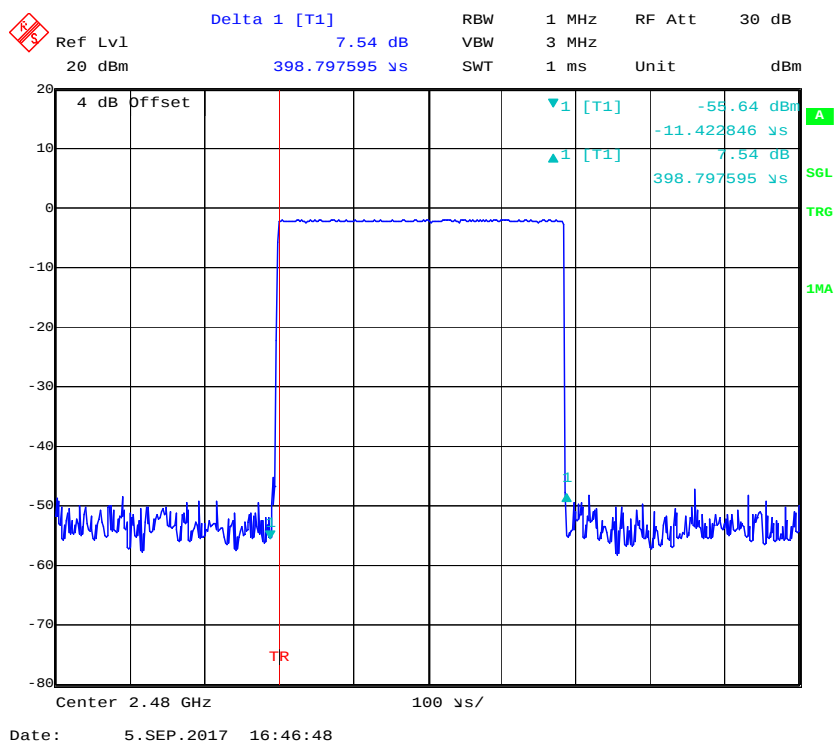
DH1: Low Channel



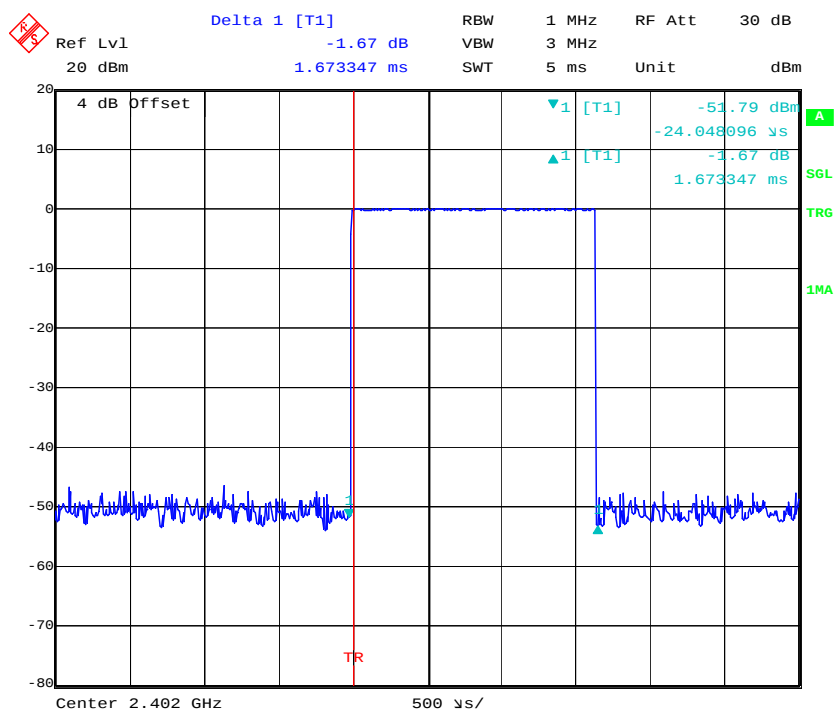
DH1: Middle Channel



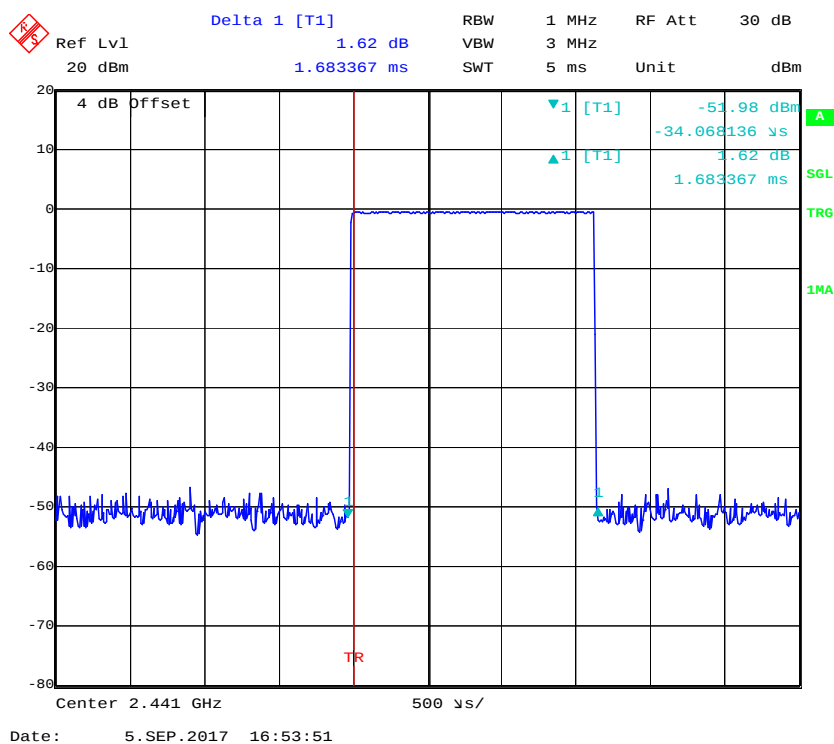
DH1: High Channel

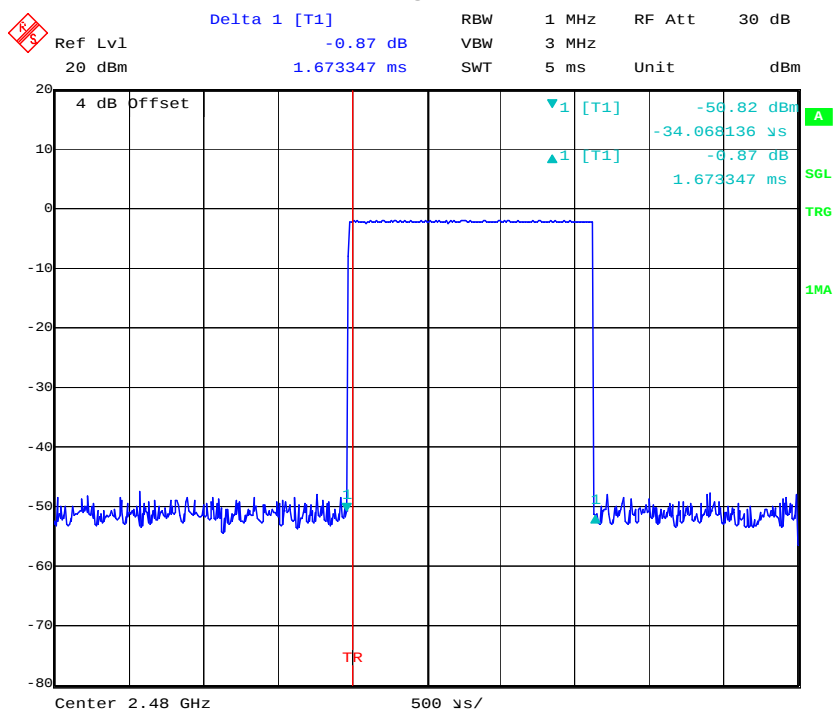


DH3: Low Channel

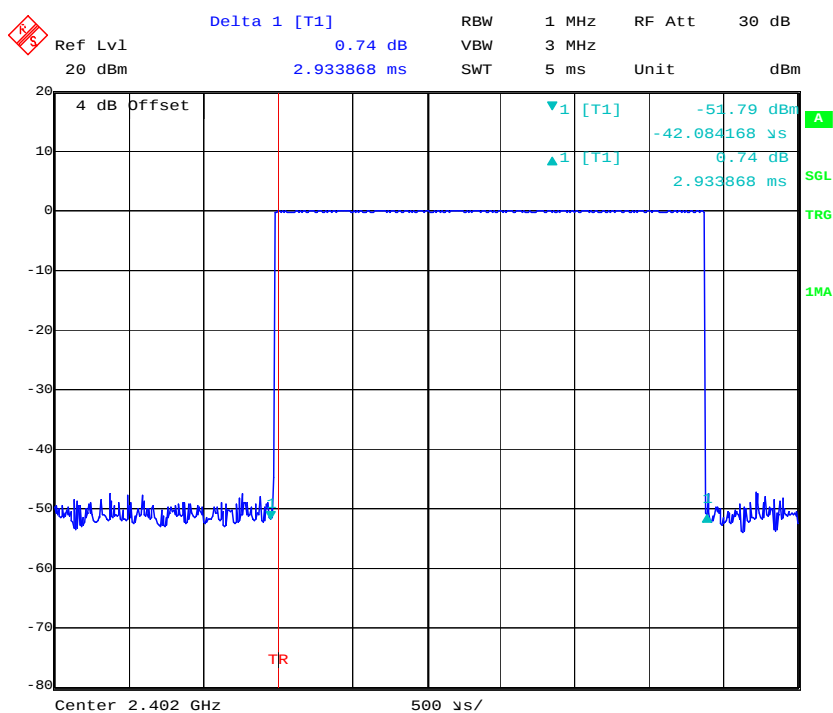


DH3: Middle Channel

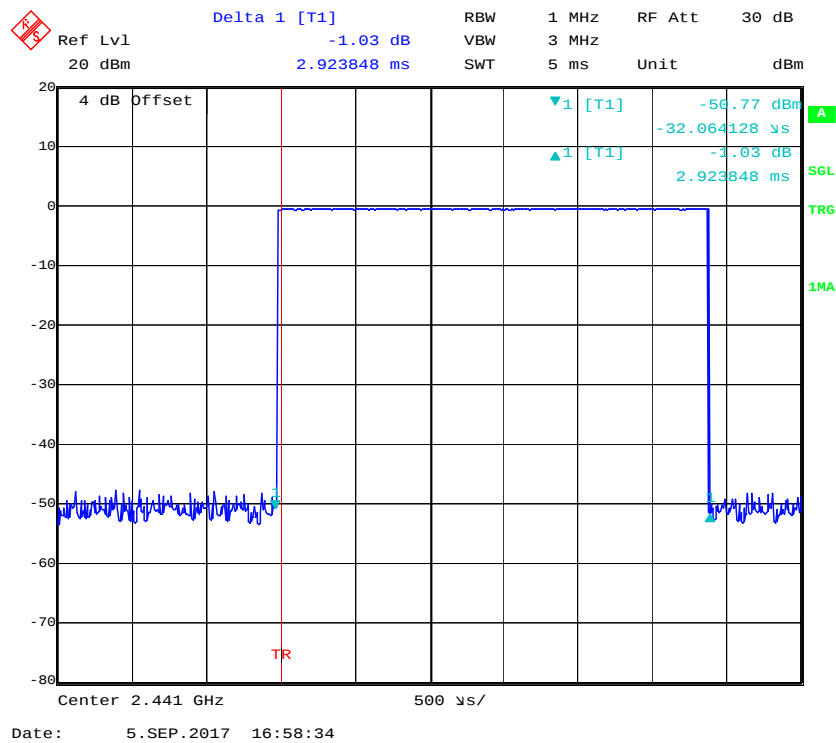
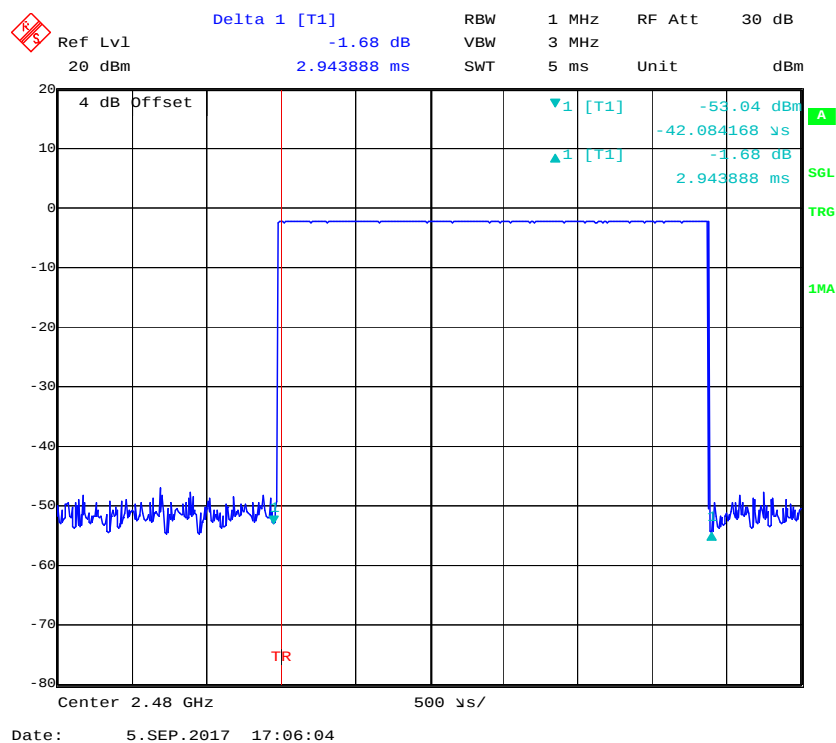


DH3: High Channel

Date: 5.SEP.2017 16:53:09

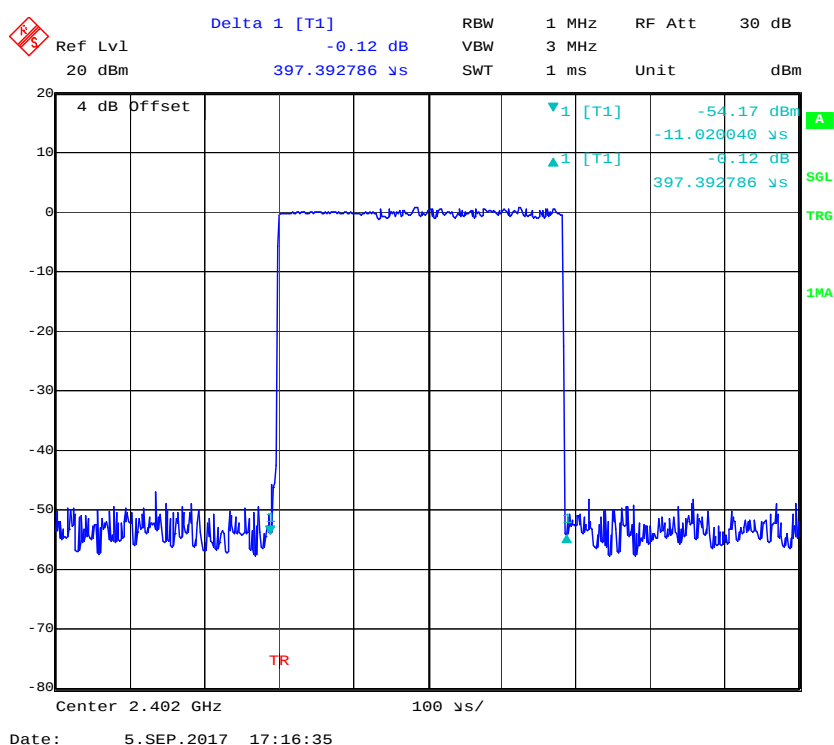
DH5: Low Channel

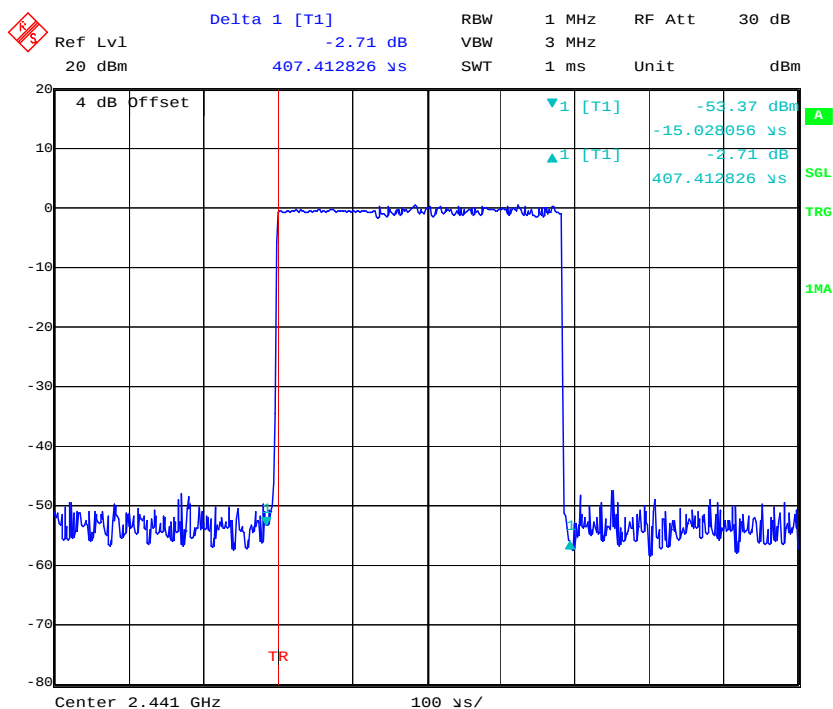
Date: 5.SEP.2017 16:57:56

DH5: Middle Channel**DH5: High Channel**

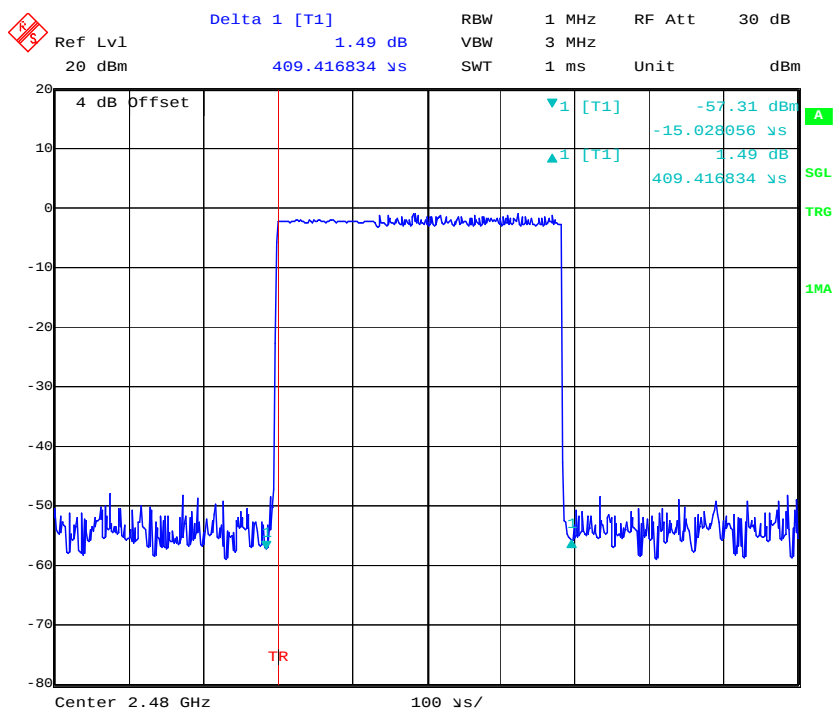
EDR Mode ($\pi/4$ -DQPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.397	0.127	0.4	Compliance
	Middle	0.407	0.130	0.4	Compliance
	High	0.409	0.131	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
2DH3	Low	1.702	0.272	0.4	Compliance
	Middle	1.702	0.272	0.4	Compliance
	High	1.672	0.268	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
2DH5	Low	2.924	0.312	0.4	Compliance
	Middle	2.924	0.312	0.4	Compliance
	High	2.914	0.311	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

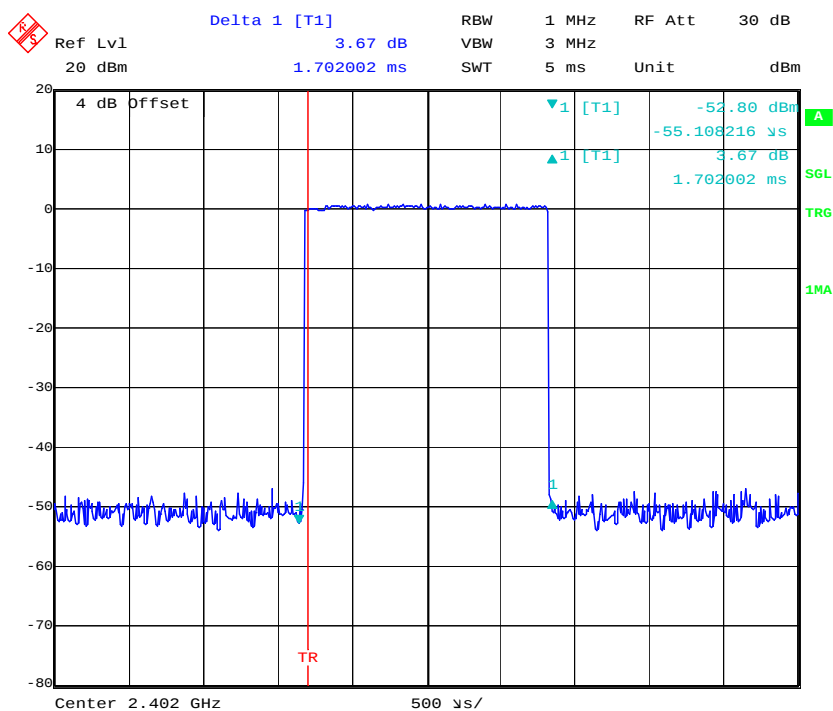
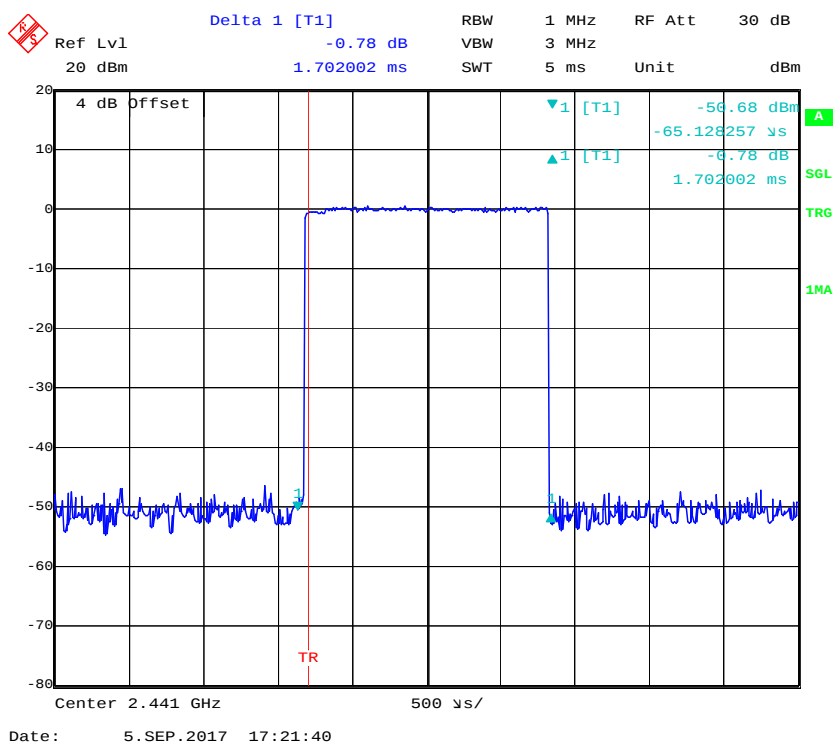
2DH1: Low Channel

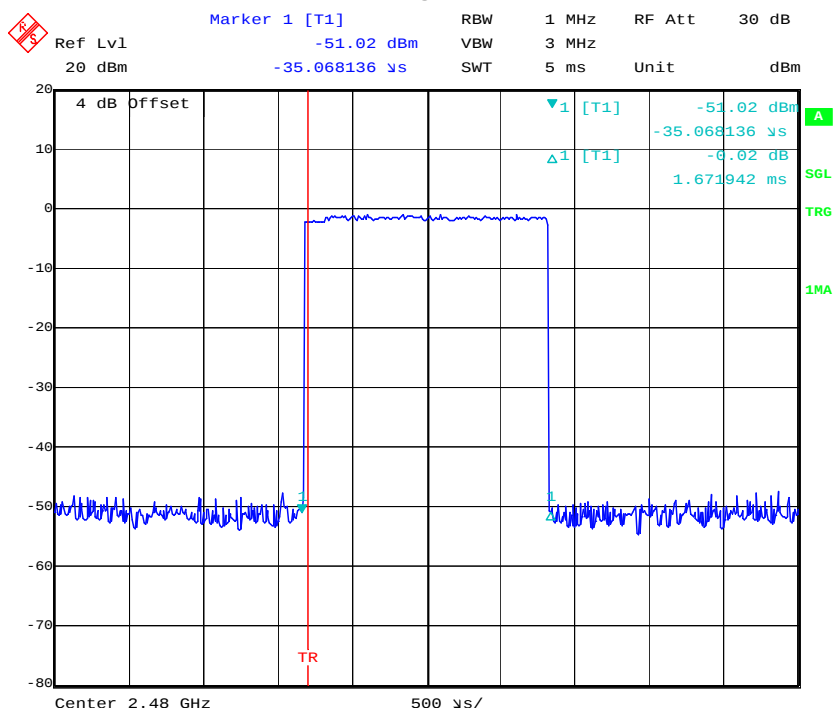
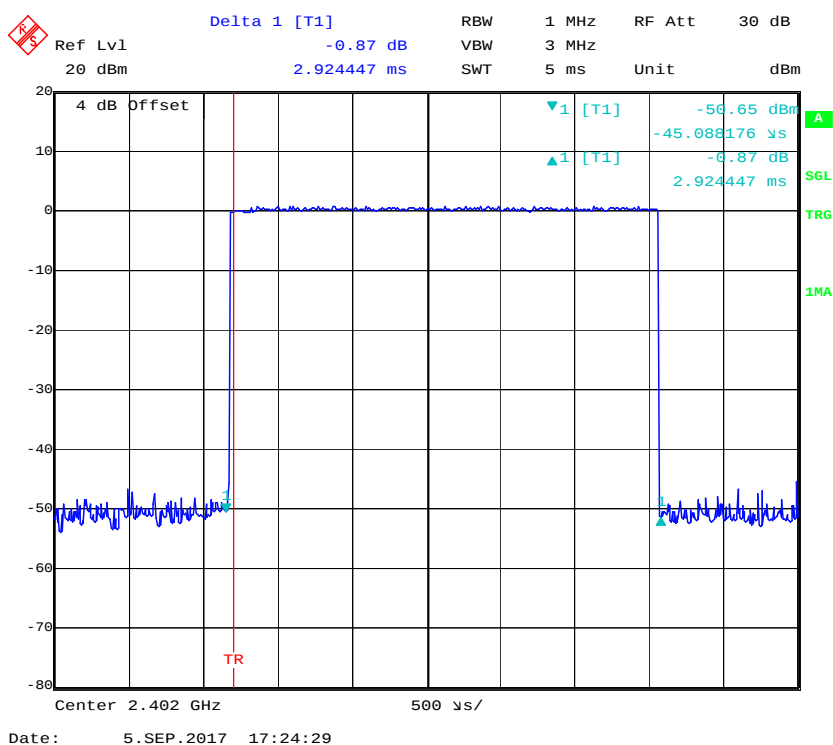
2DH1: Middle Channel

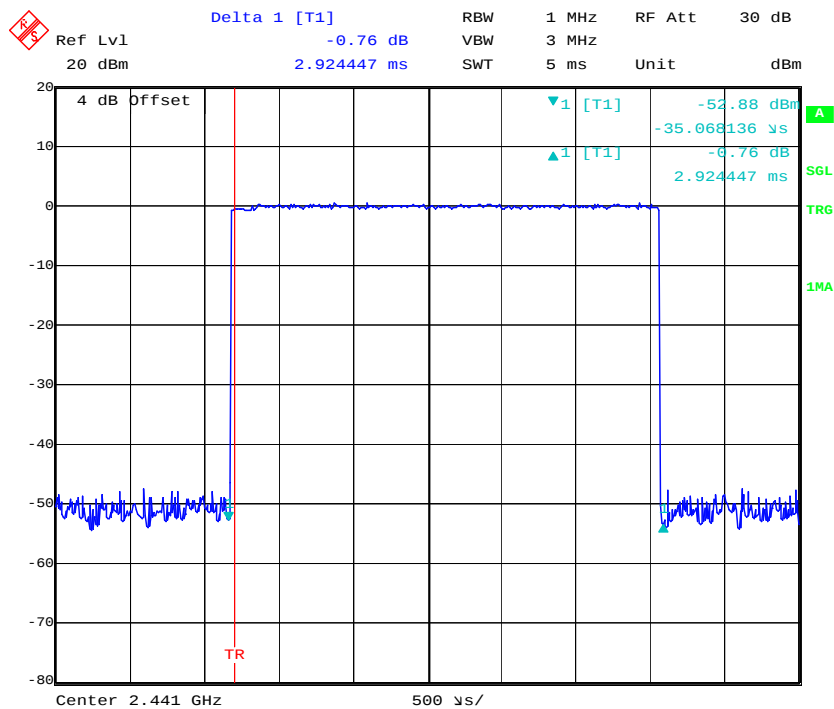
Date: 5.SEP.2017 17:17:20

2DH1: High Channel

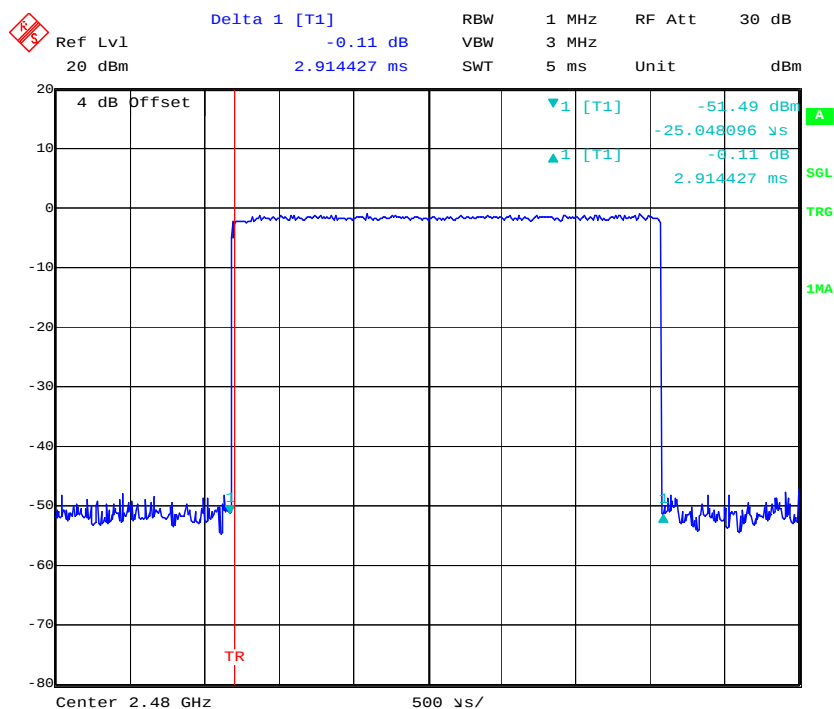
Date: 5.SEP.2017 17:18:20

2DH3: Low Channel**2DH3: Middle Channel**

2DH3: High Channel**2DH5: Low Channel**

2DH5: Middle Channel

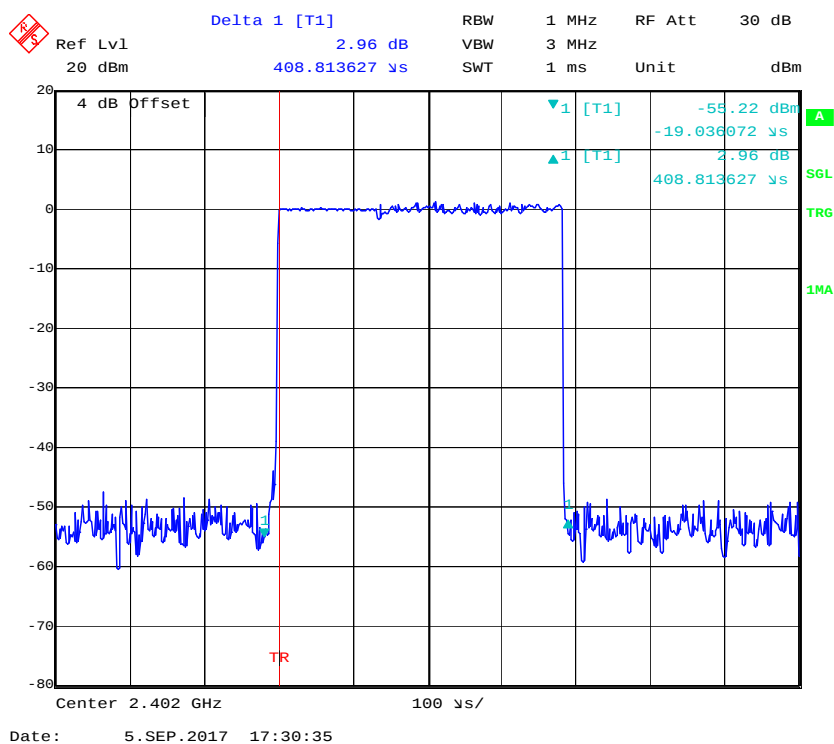
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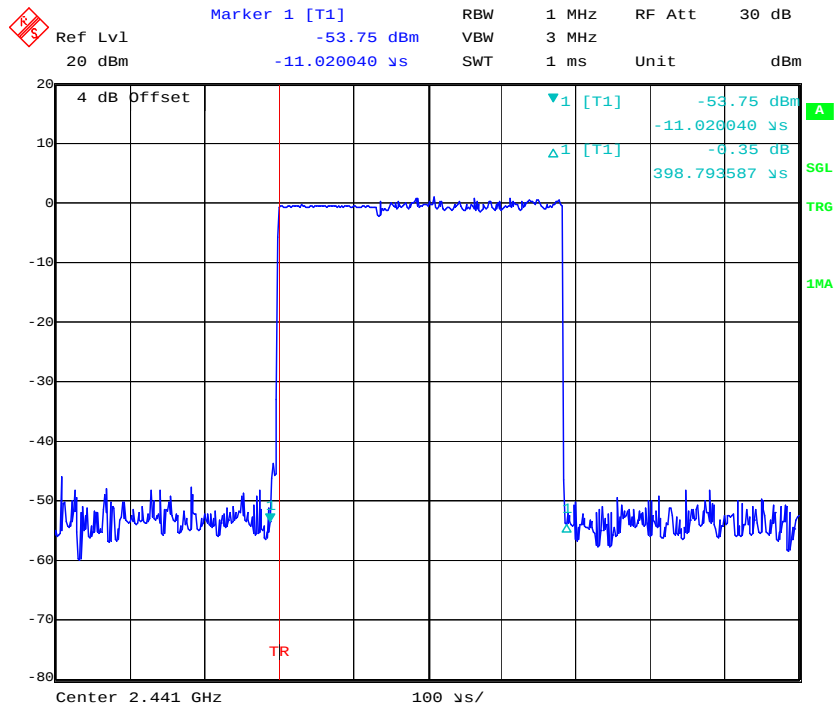
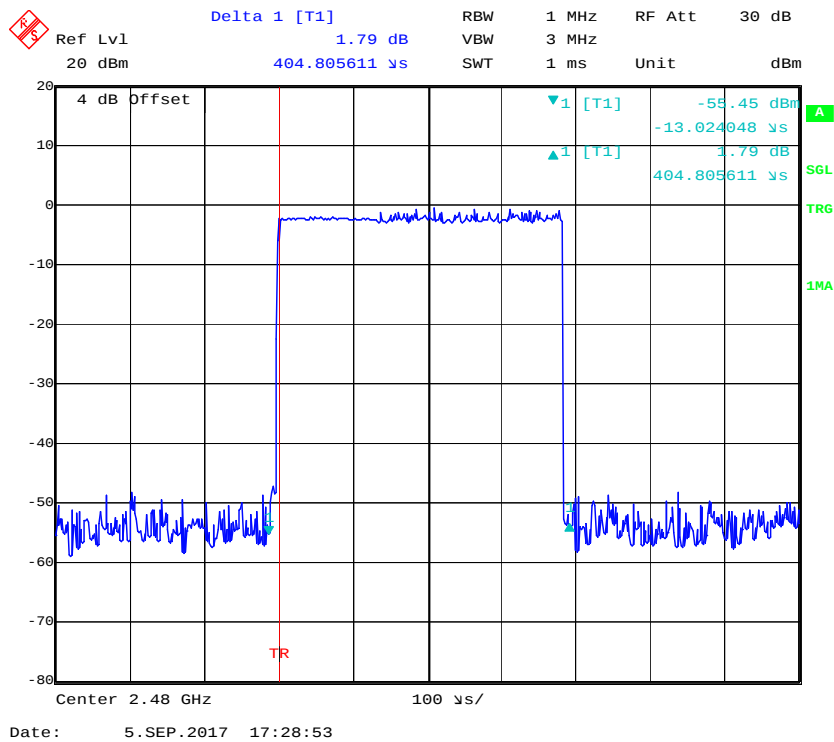
2DH5: High Channel

Date: 5.SEP.2017 17:26:04

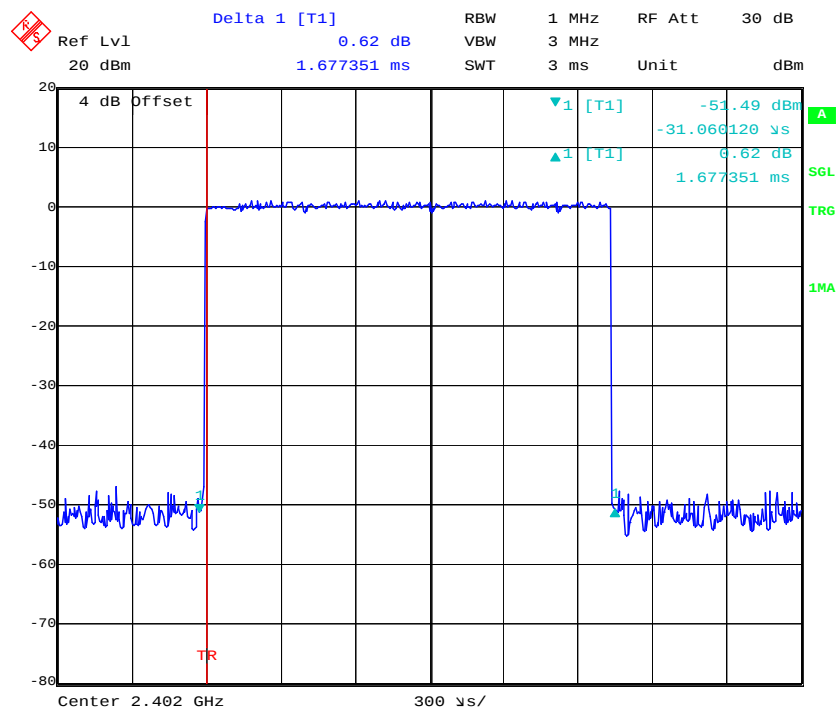
EDR Mode (8DPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
3DH1	Low	0.409	0.131	0.4	Compliance
	Middle	0.399	0.127	0.4	Compliance
	High	0.405	0.129	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) × 31.6 s				
3DH3	Low	1.677	0.268	0.4	Compliance
	Middle	1.659	0.265	0.4	Compliance
	High	1.659	0.265	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) × 31.6 s				
3DH5	Low	2.933	0.313	0.4	Compliance
	Middle	2.933	0.313	0.4	Compliance
	High	2.923	0.312	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) × 31.6 s				

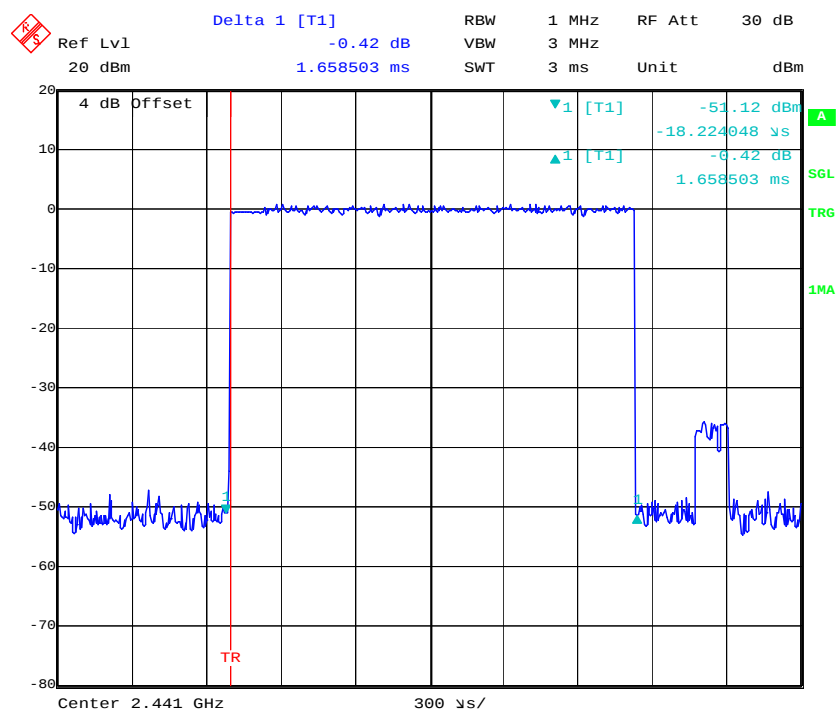
3DH1: Low Channel

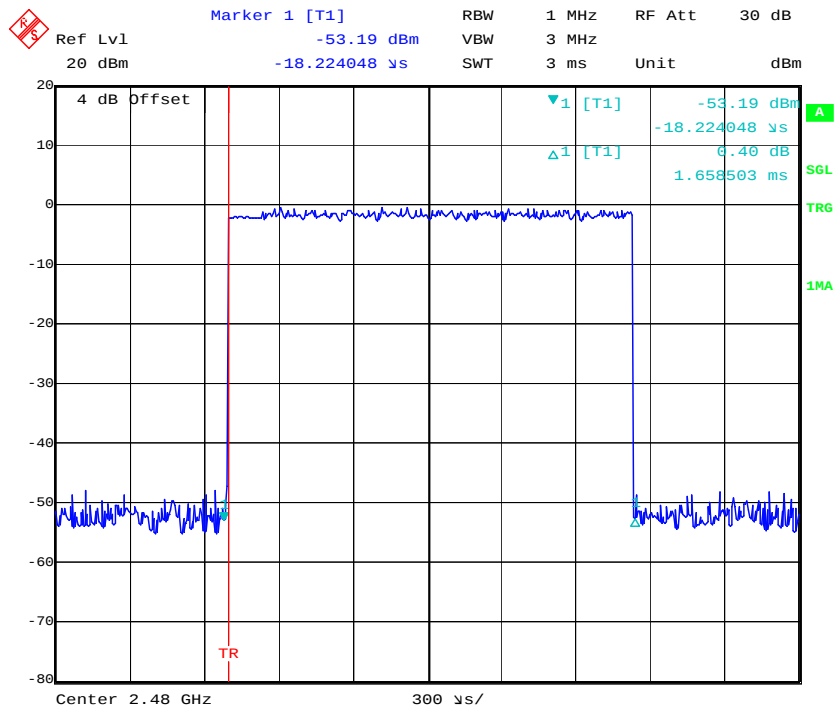
3DH1: Middle Channel**3DH1: High Channel**

3DH3: Low Channel

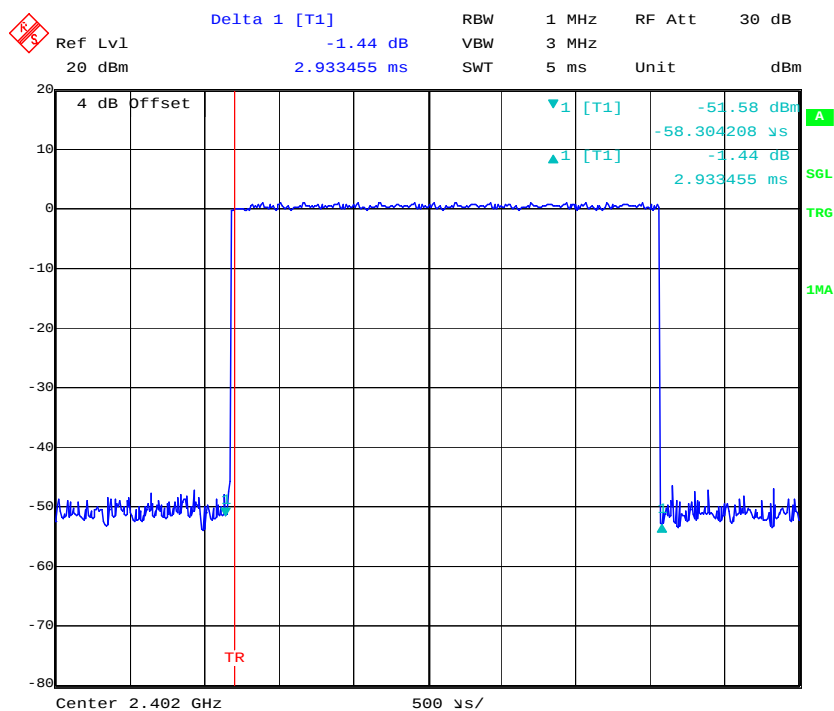


3DH3: Middle Channel

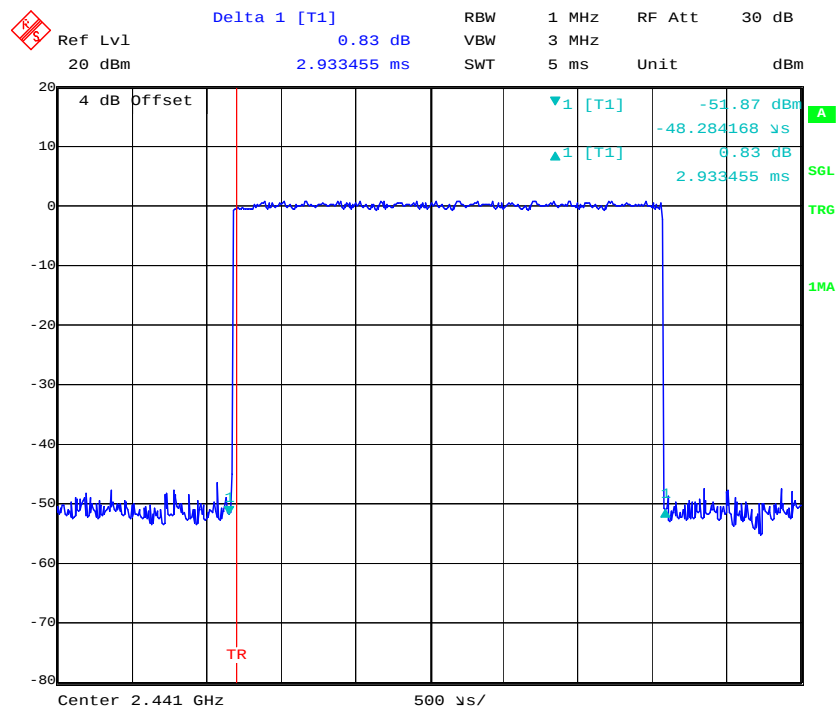


3DH3: High Channel

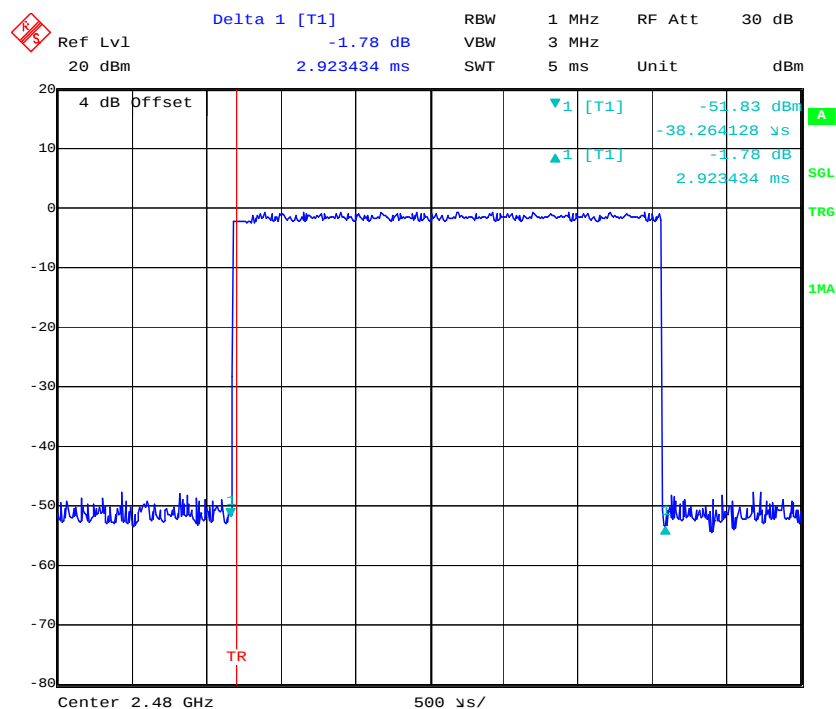
Date: 5.SEP.2017 17:36:43

3DH5: Low Channel

Date: 5.SEP.2017 17:40:08

3DH5: Middle Channel

Date: 5.SEP.2017 17:39:31

3DH5: High Channel

Date: 5.SEP.2017 17:38:58

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	FSEM	831259/019	2017-7-18	2018-7-18
Unknown	RF Attenuator	3dB	3dB-1	Each Time	/
Unknown	RF Cable	Unknown	C-2	Each Time	/

* **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:	25.8°C
Relative Humidity:	47 %
ATM Pressure:	100.2 kPa

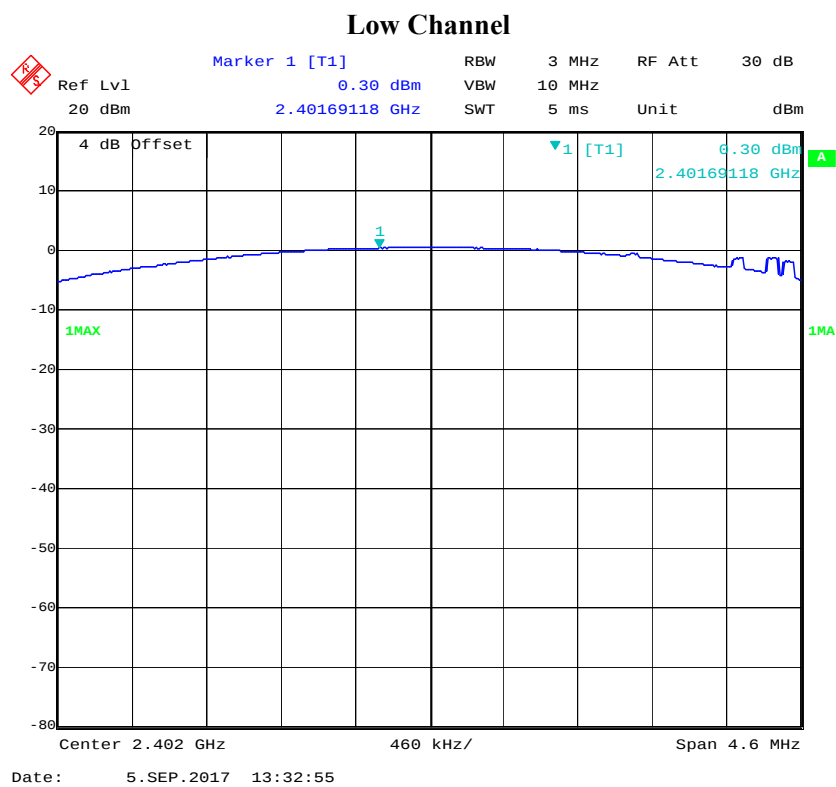
* The testing was performed by Gavin Xu on 2017-09-05.

Test Result: Compliance.

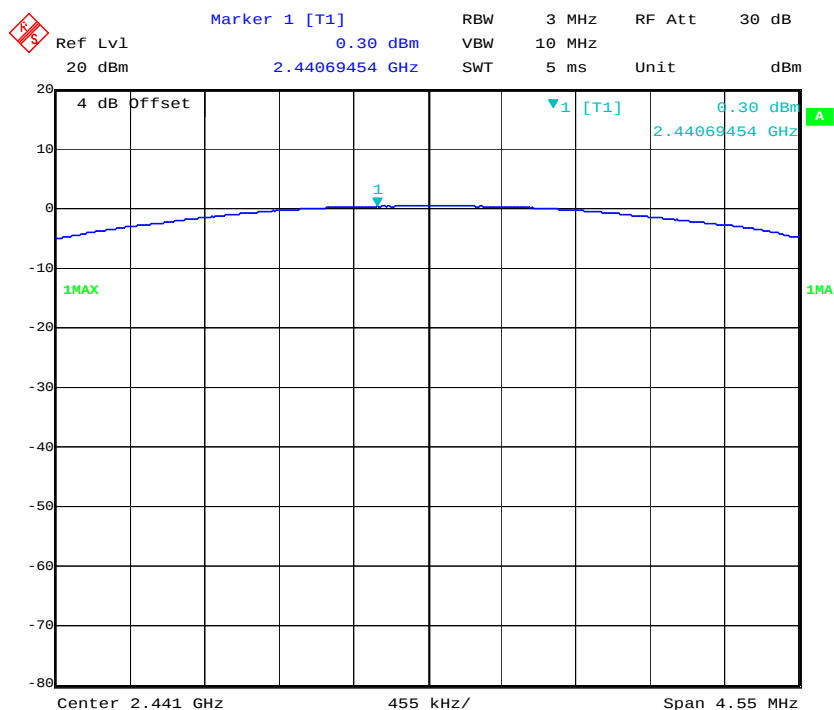
Test Mode: Transmitting

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	0.30	30
	2441	0.30	30
	2480	0.17	30
EDR Mode ($\pi/4$ -DQPSK)	2402	1.30	30
	2441	1.06	30
	2480	0.30	30
EDR Mode (8DPSK)	2402	1.55	30
	2441	1.30	30
	2480	0.17	30

Note: The data above was tested in conducted mode.

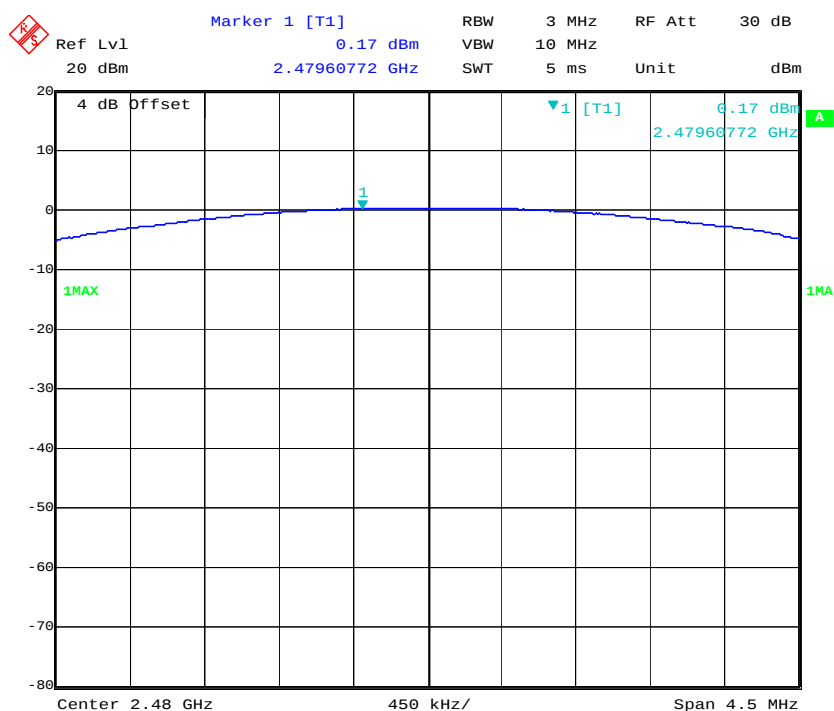
BDR Mode (GFSK):

Middle Channel

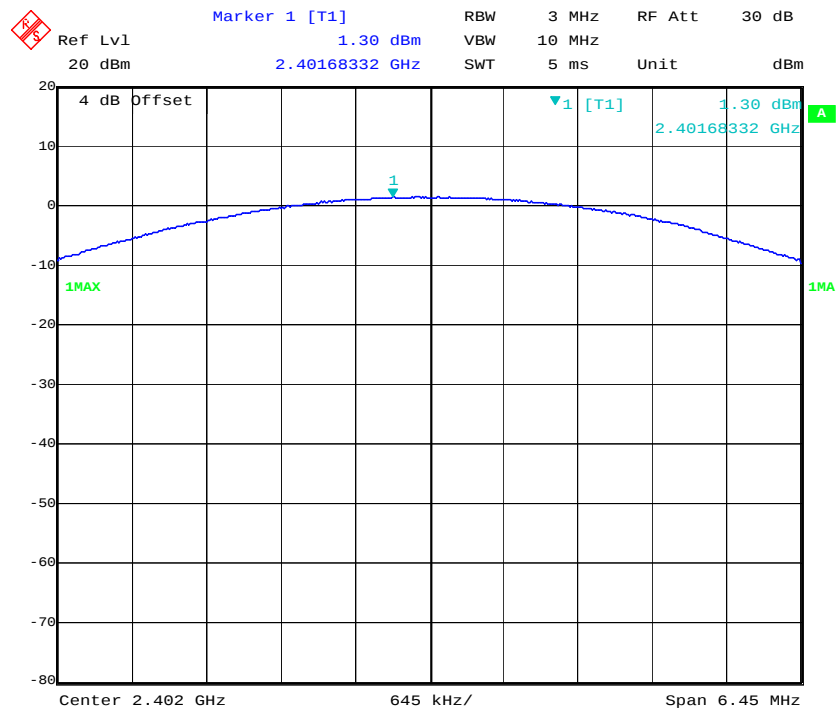
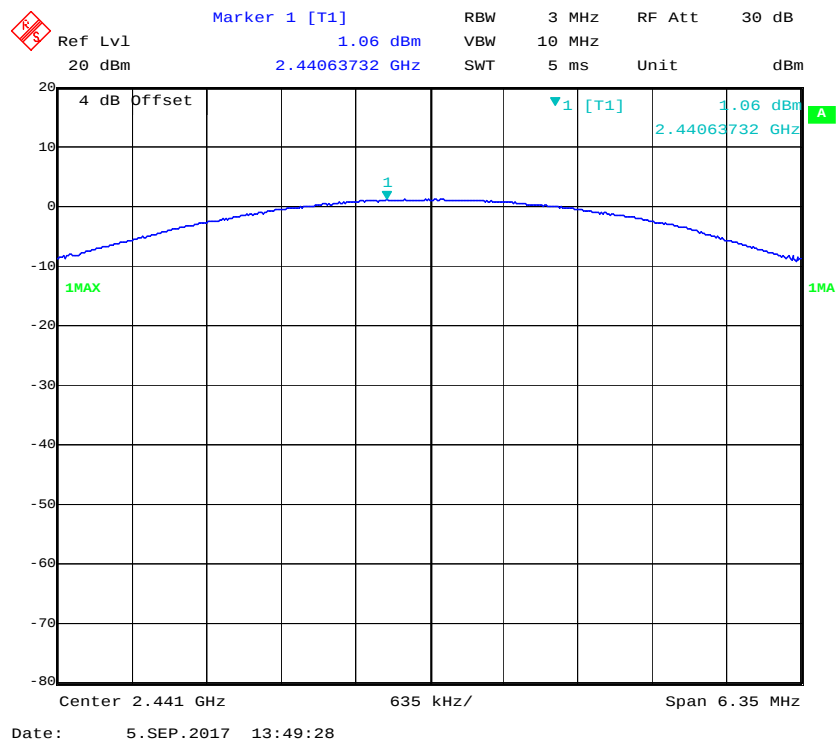


Date: 5.SEP.2017 13:44:52

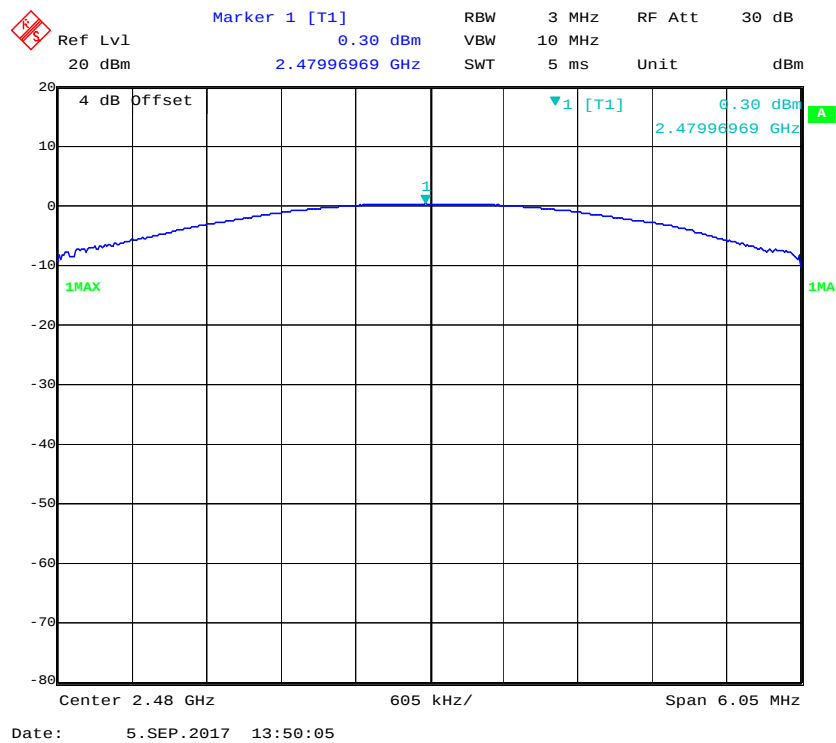
High Channel



Date: 5.SEP.2017 13:35:09

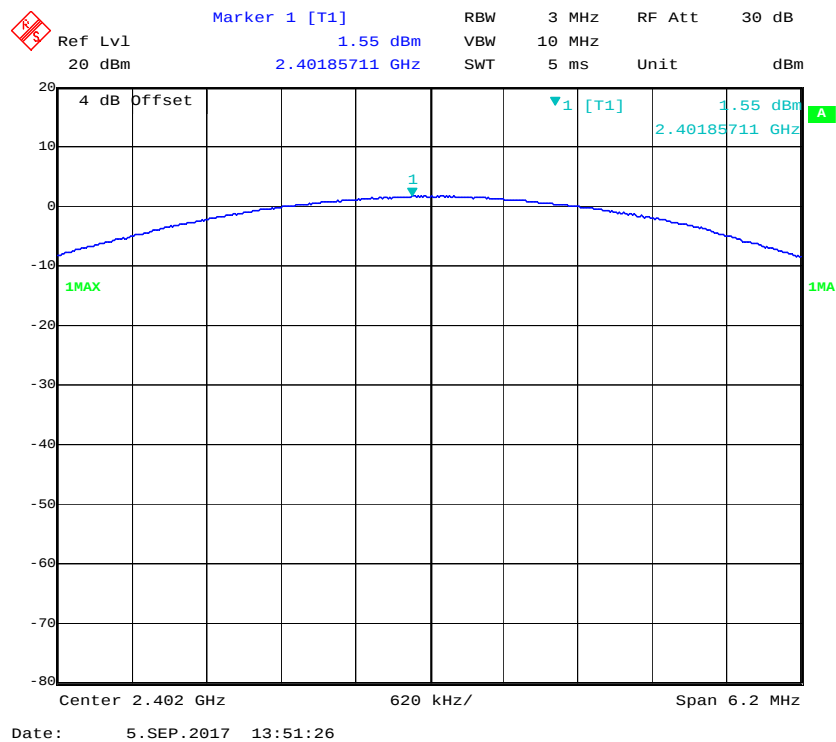
EDR Mode ($\pi/4$ -DQPSK):**Low Channel****Middle Channel**

High Channel

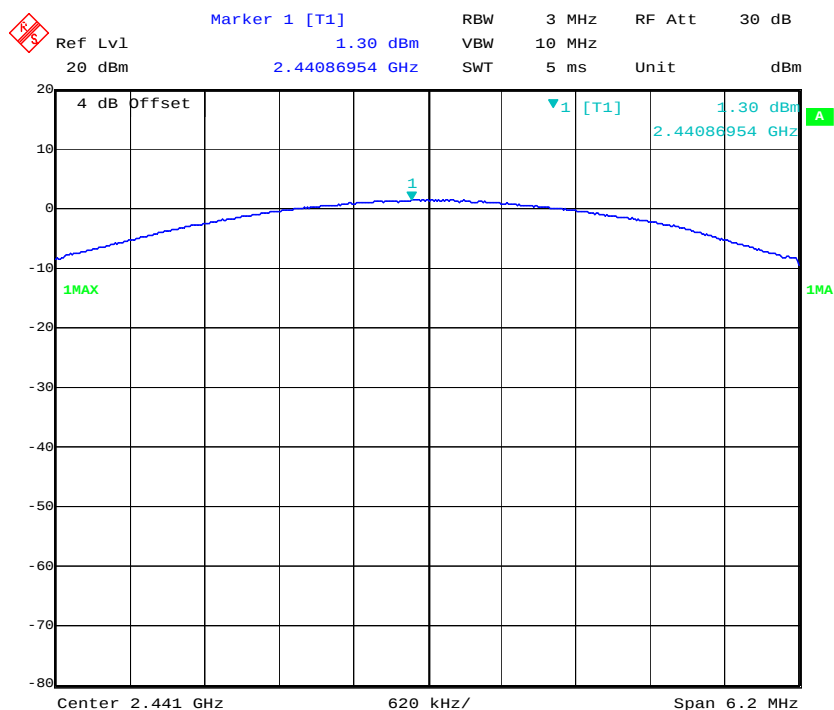


EDR Mode (8DPSK):

Low Channel

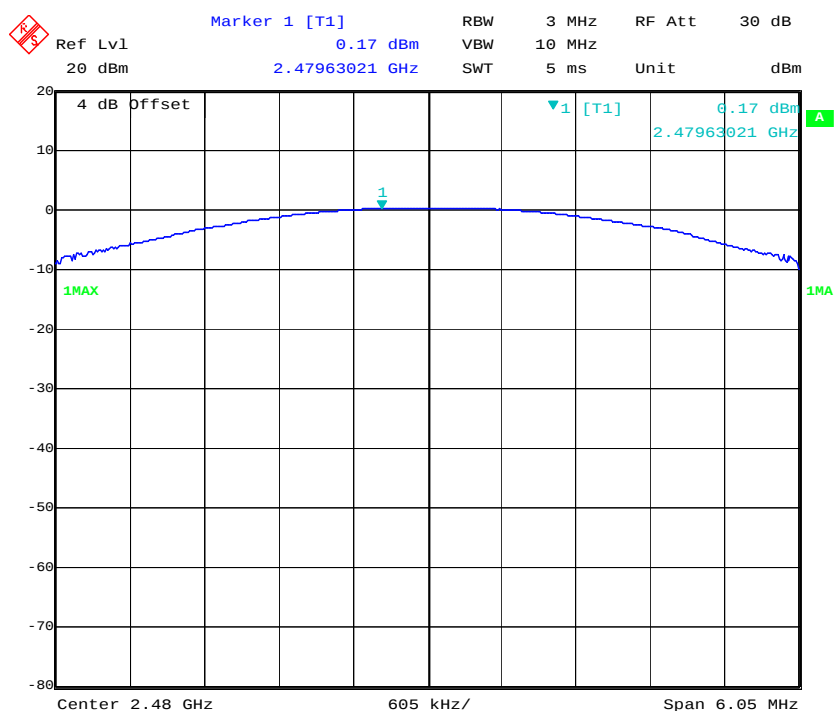


Middle Channel



Date: 5.SEP.2017 13:52:41

High Channel



Date: 5.SEP.2017 13:46:08

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 RBW/ VBW of spectrum analyzer to 100/300 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	FSEM	831259/019	2017-7-18	2018-7-18
Unknown	RF Attenuator	3dB	3dB-1	Each Time	/
Unknown	RF Cable	Unknown	C-2	Each Time	/

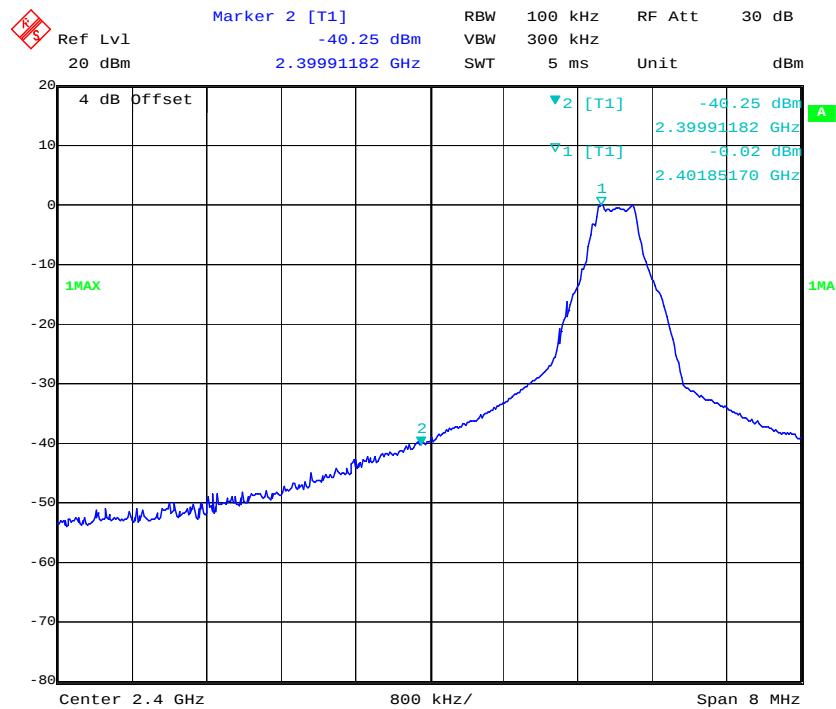
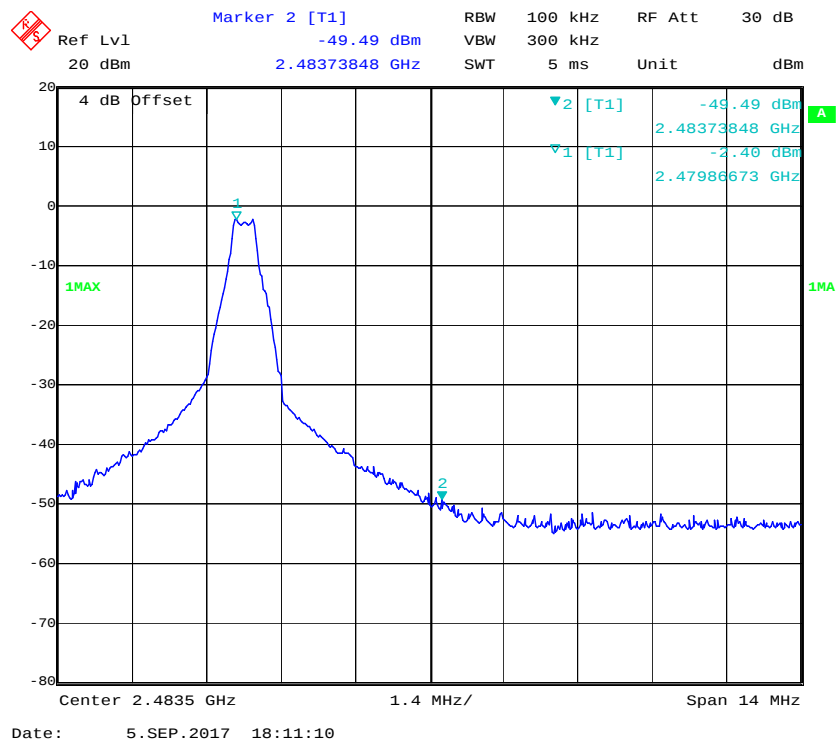
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

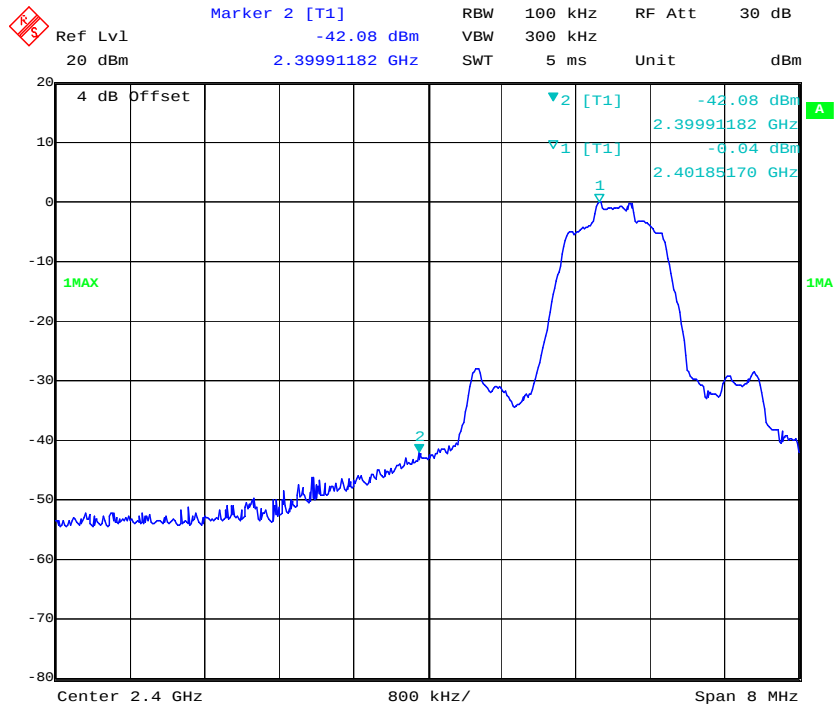
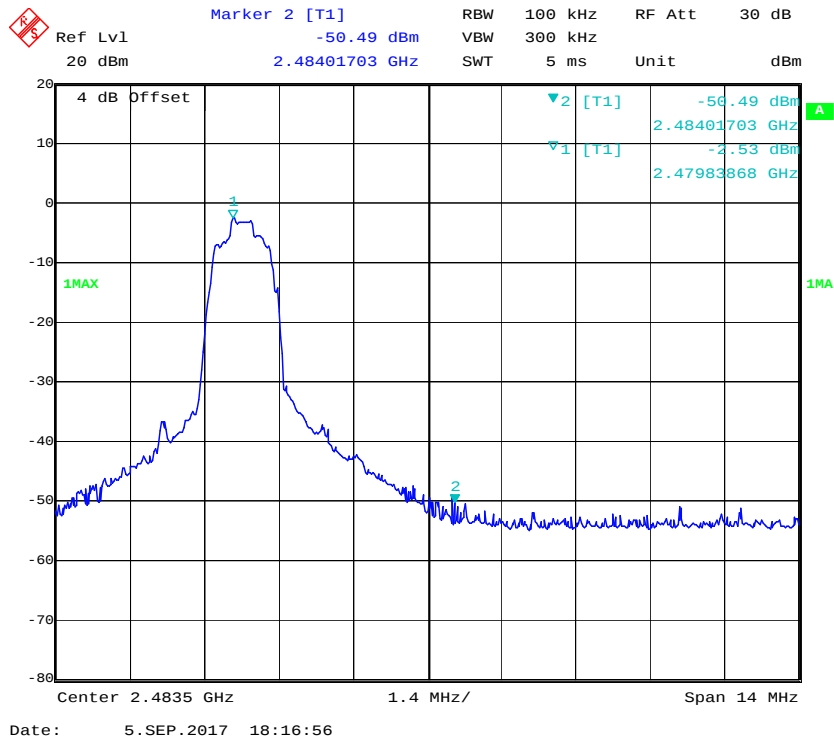
Test Data**Environmental Conditions**

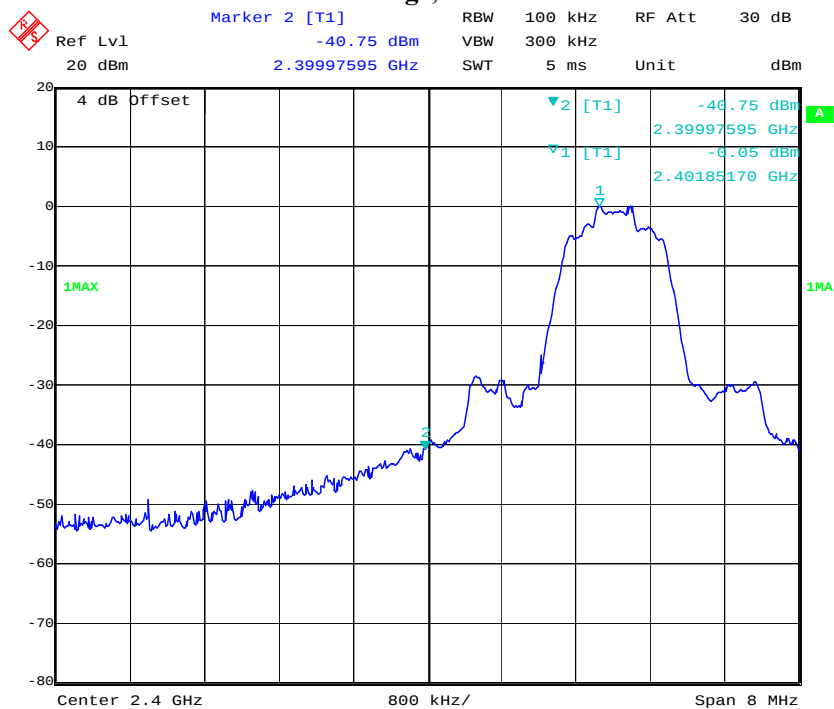
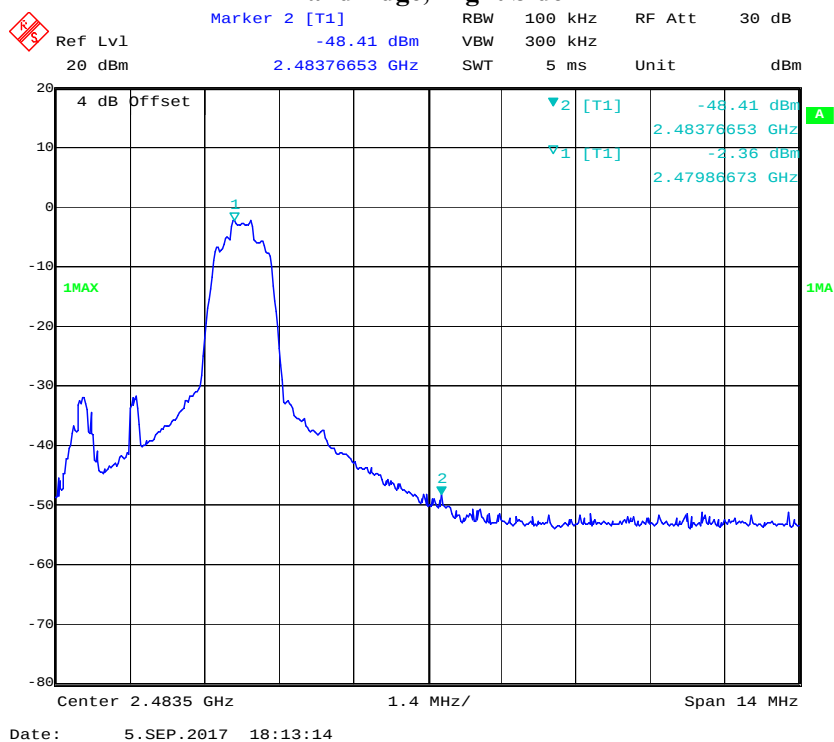
Temperature:	25.8°C
Relative Humidity:	47 %
ATM Pressure:	100.2 kPa

** The testing was performed by Gavin Xu on 2017-09-05.*

Test Result: Compliance

*BDR Mode (GFSK):***Band Edge, Left Side****Band Edge, Right Side**

*EDR Mode ($\pi/4$ -DQPSK):***Band Edge, Left Side****Band Edge, Right Side**

*EDR Mode (8DPSK):***Band Edge, Left Side****Band Edge, Right Side********* END OF REPORT *******