



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 15.247

TEST REPORT

For

MPOW TECHNOLOGY CO., LIMITED

RM 603, 6/F, HANG PONT COMM BLDG 31 TONKIN ST CHEUNG SHA WAN KL HK China

FCC ID: 2AMH2-BH217A

Report Type: Original Report	Product Name: Wireless Earphone
Report Number: RDG181210003-00A	
Report Date: 2018-12-20	
Reviewed By: Allen Qiao RF Supervisor	<i>Allen Qiao</i>
Test Laboratory: Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn	

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). This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA* or any agency of the Federal Government. * This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk **.

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
MEASUREMENT UNCERTAINTY	4
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	6
SUPPORT CABLE LIST AND DETAILS	6
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS	8
FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE.....	9
APPLICABLE STANDARD	9
FCC §15.203 - ANTENNA REQUIREMENT.....	10
APPLICABLE STANDARD	10
ANTENNA CONNECTOR CONSTRUCTION	10
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	11
APPLICABLE STANDARD	11
EUT SETUP	11
EMI TEST RECEIVER SETUP.....	11
TEST PROCEDURE	11
CORRECTED AMPLITUDE & MARGIN CALCULATION	12
TEST EQUIPMENT LIST AND DETAILS.....	12
TEST DATA	12
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	15
APPLICABLE STANDARD	15
EUT SETUP	15
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	16
TEST PROCEDURE	16
TEST EQUIPMENT LIST AND DETAILS.....	16
CORRECTED AMPLITUDE & MARGIN CALCULATION	17
TEST DATA	17
FCC §15.247(a) (1) - CHANNEL SEPARATION TEST	25
APPLICABLE STANDARD	25
TEST EQUIPMENT LIST AND DETAILS.....	25
TEST PROCEDURE	25
TEST DATA	25
FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING.....	31
APPLICABLE STANDARD	31
TEST PROCEDURE	31
TEST EQUIPMENT LIST AND DETAILS.....	31

TEST DATA	31
FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST	37
APPLICABLE STANDARD	37
TEST PROCEDURE	37
TEST EQUIPMENT LIST AND DETAILS.....	37
TEST DATA	37
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....	41
APPLICABLE STANDARD	41
TEST PROCEDURE	41
TEST EQUIPMENT LIST AND DETAILS.....	41
TEST DATA	41
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	57
APPLICABLE STANDARD	57
TEST PROCEDURE	57
TEST EQUIPMENT LIST AND DETAILS.....	57
TEST DATA	57
FCC §15.247(d) - BAND EDGES TESTING	59
APPLICABLE STANDARD	59
TEST PROCEDURE	59
TEST EQUIPMENT LIST AND DETAILS.....	59
TEST DATA	60

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	Wireless Earphone
EUT Model:	BH217A
FCC ID:	2AMH2-BH217A
Rated Input Voltage:	DC 3.7V from battery or DC 5V from USB port
External Dimension:	65mm(L)*14mm(W)*25mm(H)
Serial Number:	181210003
EUT Received Date:	2018-12-10

Objective

This report is prepared on behalf of *MPOW TECHNOLOGY CO., 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 15C DTS submissions with FCC ID: 2AMH2-BH217A.

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". and KDB 558074 D01 15.247 Meas Guidance v05.

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

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB, 1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±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.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

EUT Exercise Software

Test software: ' Blue Test 3 ' was used in test, the system configured maximum power level as below setting:

Test Software Version	Blue Test 3		
Test Frequency	2402MHz	2441MHz	2480MHz
GFSK	50	50	50
$\pi/4$ -DQPSK	50	50	50
8DPSK	50	50	50

Equipment Modifications

No modification was made to the EUT.

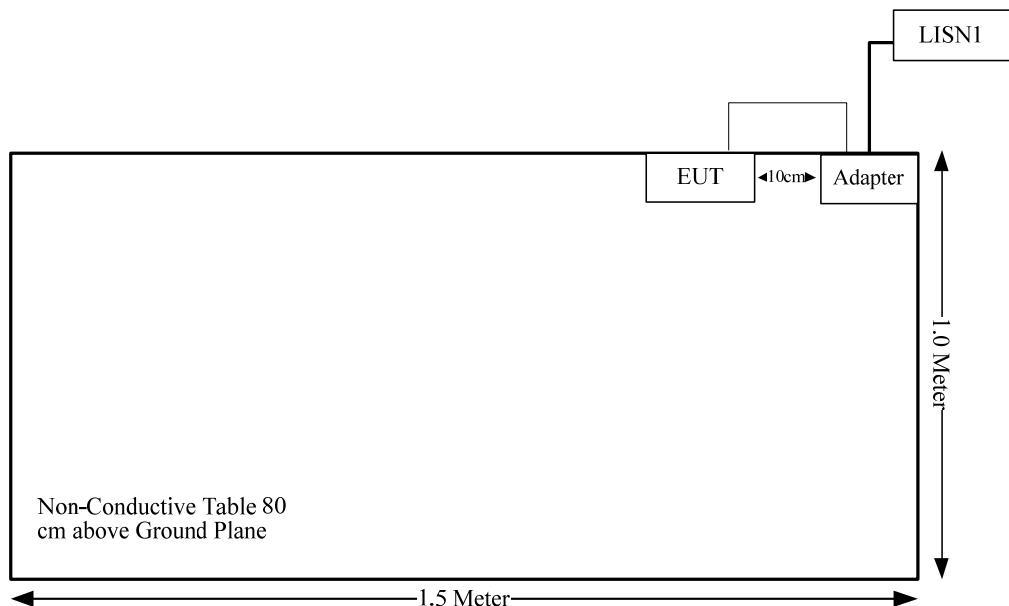
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
unkonwn	adapter	M4	/

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	To
USB cable	No	No	1	adapter	EUT

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ 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 1.5 dBm (1.41 mW).
 $[(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 1.41 / 5 * (\sqrt{2.480}) = 0.4 < 3.0$

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 2.5 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

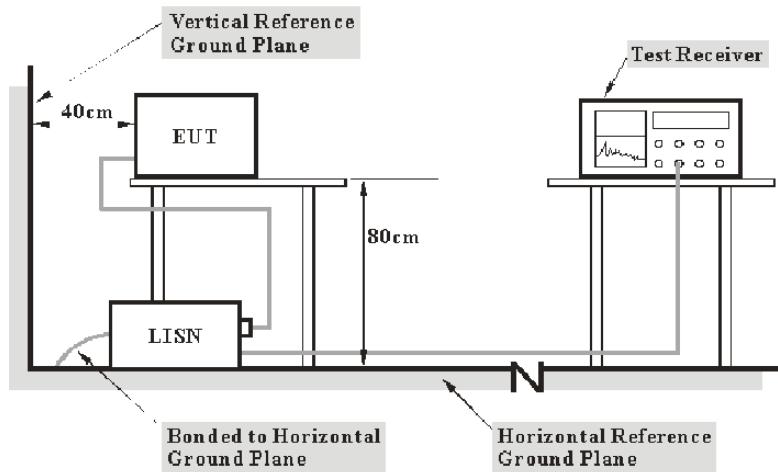
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a)

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMIN) 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	2018-12-10	2019-12-10
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2018-09-05	2019-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2018-12-10	2019-12-10

* **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

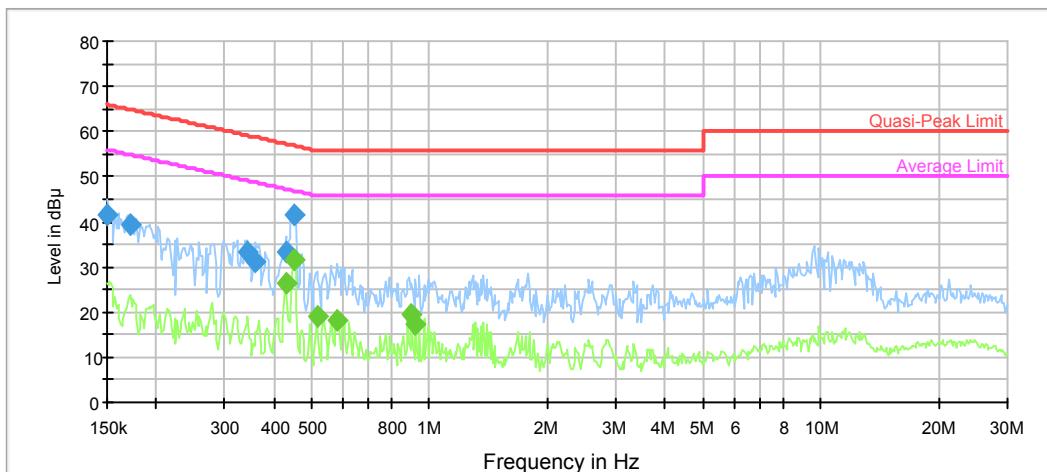
Environmental Conditions

Temperature:	24.5 °C
Relative Humidity:	41 %
ATM Pressure:	99.9 kPa

The testing was performed by Lily Xie on 2018-12-15.

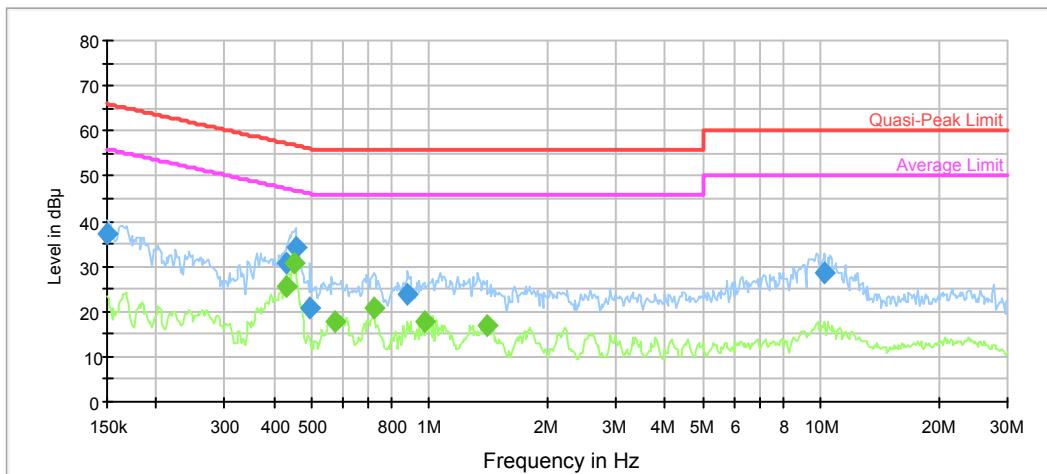
Test Mode: Transmitting

AC120V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	41.3	9.000	L1	11.2	24.7	66.0	Compliance
0.171759	39.3	9.000	L1	10.9	25.6	64.9	Compliance
0.343548	33.4	9.000	L1	10.0	25.7	59.1	Compliance
0.360371	31.2	9.000	L1	10.0	27.5	58.7	Compliance
0.429420	33.4	9.000	L1	9.9	23.9	57.3	Compliance
0.450448	41.7	9.000	L1	9.9	15.2	56.9	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.429420	26.2	9.000	L1	9.9	21.1	47.3	Compliance
0.450448	31.8	9.000	L1	9.9	15.1	46.9	Compliance
0.515791	19.0	9.000	L1	9.9	27.0	46.0	Compliance
0.581275	18.3	9.000	L1	9.8	27.7	46.0	Compliance
0.900972	19.6	9.000	L1	9.8	26.4	46.0	Compliance
0.922769	17.4	9.000	L1	9.8	28.6	46.0	Compliance

AC120V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	37.2	9.000	N	11.2	28.8	66.0	Compliance
0.429420	30.7	9.000	N	9.9	26.6	57.3	Compliance
0.454052	34.0	9.000	N	9.9	22.8	56.8	Compliance
0.495646	20.9	9.000	N	9.9	35.2	56.1	Compliance
0.879690	23.9	9.000	N	9.8	32.1	56.0	Compliance
10.237020	28.7	9.000	N	9.8	31.3	60.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.429420	25.7	9.000	N	9.9	21.6	47.3	Compliance
0.450448	30.9	9.000	N	9.9	16.0	46.9	Compliance
0.576662	17.5	9.000	N	9.8	28.5	46.0	Compliance
0.720803	20.6	9.000	N	9.8	25.4	46.0	Compliance
0.967957	17.7	9.000	N	9.8	28.3	46.0	Compliance
1.396499	16.9	9.000	N	9.8	29.1	46.0	Compliance

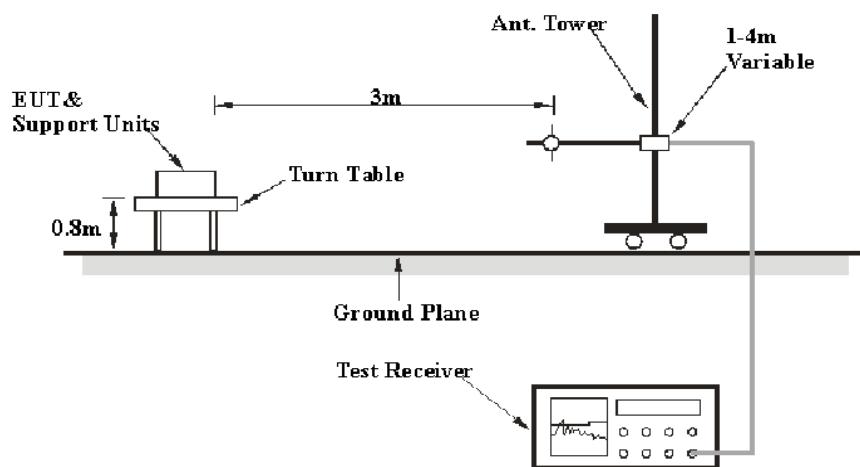
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

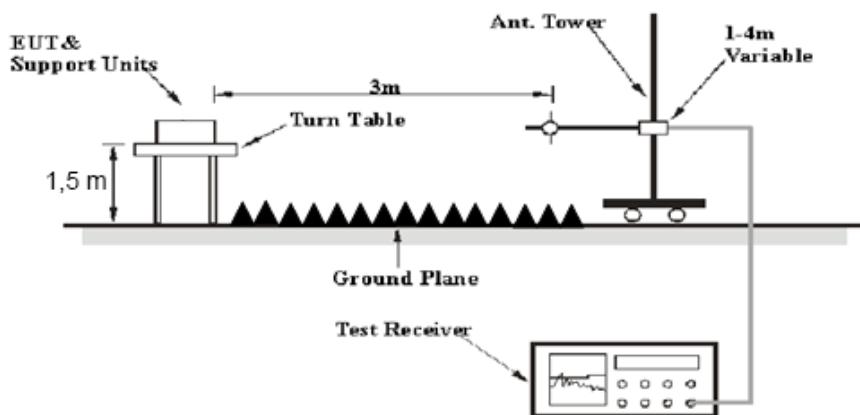
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 10 meters chamber test site for the range 30MHz to 1GHz and the 3 meters chamber B test site for above 1GHz, 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.

According to FCC public notice: DA-00-705, 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	Measurement
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	100035	2018-08-03	2019-08-03
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-3	2017-07-21	2019-07-21
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2018-09-24	2019-09-24
Sonoma	Amplifier	310N	185914	2018-10-13	2019-10-13
R&S	Spectrum Analyzer	FSP 38	100478	2018-12-10	2019-12-10
TDK RF	Horn Antenna	HRN-0118	130 084	2016-01-05	2019-01-04
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2016-11-18	2019-11-18
MICRO-COAX	Coaxial Cable	UFA147-1-2362-100100	64639 231029-001	2018-02-24	2019-02-28
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2018-09-05	2019-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2018-06-27	2019-06-27
E-Microwave	Band-stop Filters	OBSF-2400-2483.5-S	OE01601525	2018-06-16	2019-06-16
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2018-06-16	2019-06-16

* **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

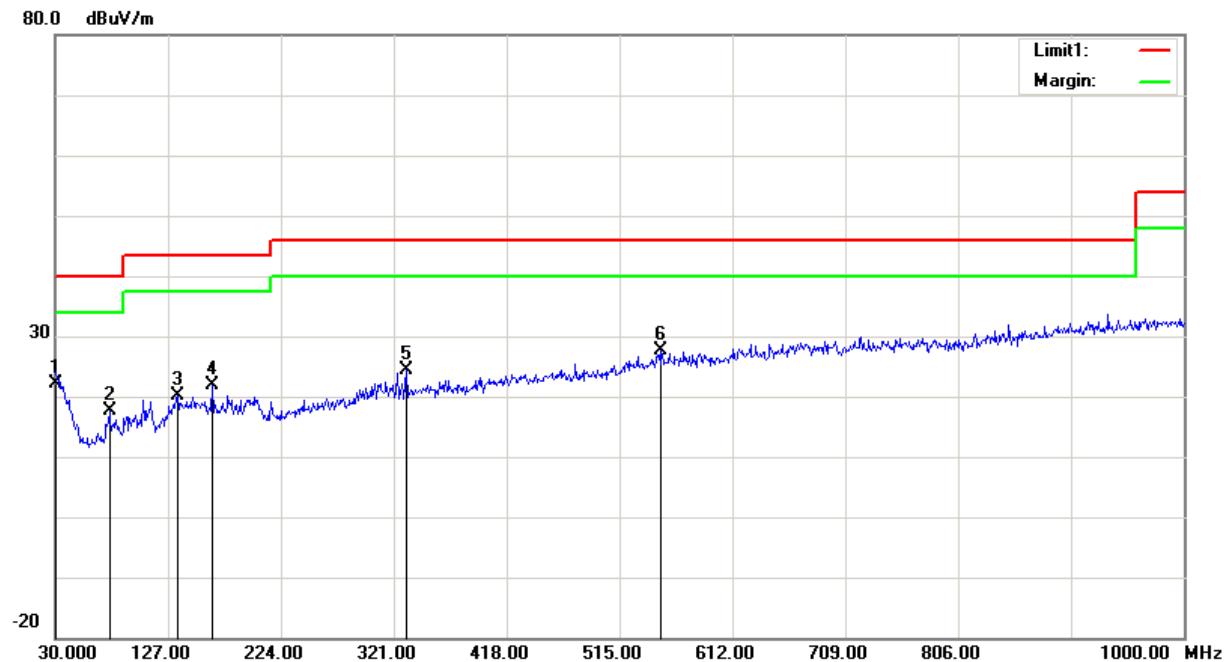
Temperature:	19.6°C
Relative Humidity:	52 %
ATM Pressure:	99.8 kPa

* The testing was performed by Sunny Cen & Vern Shen on 2018-12-17.

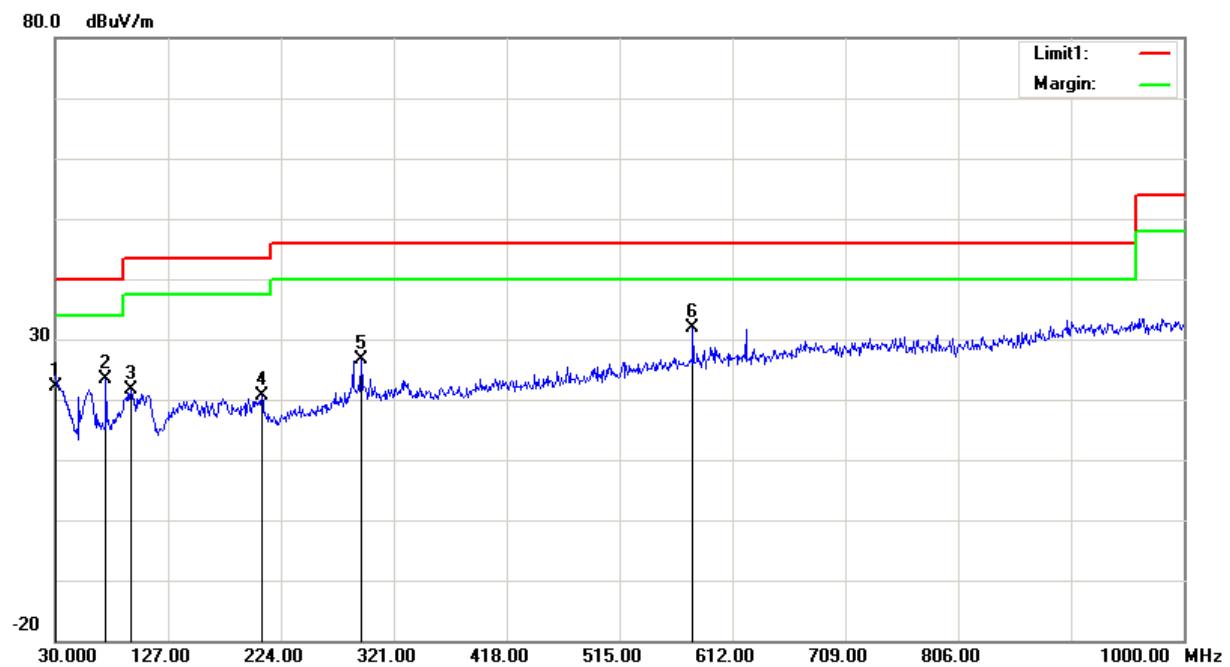
Test Mode: Transmitting

1) 30MHz-1GHz (GFSK High 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)
30.9700	26.98	QP	-4.88	22.10	40.00	17.90
76.5600	33.72	QP	-16.21	17.51	40.00	22.49
135.7300	29.80	QP	-9.59	20.21	43.50	23.29
164.8300	31.55	QP	-9.66	21.89	43.50	21.61
331.6700	31.46	QP	-7.03	24.43	46.00	21.57
549.9200	29.45	QP	-1.79	27.66	46.00	18.34

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)
30.9700	26.98	QP	-4.88	22.10	40.00	17.90
73.6500	39.72	QP	-16.36	23.36	40.00	16.64
94.9900	36.42	QP	-14.70	21.72	43.50	21.78
207.5100	31.63	QP	-10.97	20.66	43.50	22.84
292.8700	34.35	QP	-7.82	26.53	46.00	19.47
578.0500	33.39	QP	-1.45	31.94	46.00	14.06

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

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	63.70	PK	H	24.82	3.34	0.00	91.86	N/A	N/A
2402.00	53.17	AV	H	24.82	3.34	0.00	81.33	N/A	N/A
2402.00	61.57	PK	V	24.82	3.34	0.00	89.73	N/A	N/A
2402.00	51.16	AV	V	24.82	3.34	0.00	79.32	N/A	N/A
2390.00	25.79	PK	H	24.80	3.33	0.00	53.92	74.00	20.08
2390.00	13.21	AV	H	24.80	3.33	0.00	41.34	54.00	12.66
4804.00	46.49	PK	H	29.71	4.58	27.36	53.42	74.00	20.58
4804.00	34.44	AV	H	29.71	4.58	27.36	41.37	54.00	12.63
7206.00	46.35	PK	H	33.93	5.59	27.19	58.68	74.00	15.32
7206.00	31.41	AV	H	33.93	5.59	27.19	43.74	54.00	10.26
Middle Channel: 2441 MHz									
2441.00	67.69	PK	H	24.89	3.36	0.00	95.94	N/A	N/A
2441.00	57.11	AV	H	24.89	3.36	0.00	85.36	N/A	N/A
2441.00	63.50	PK	V	24.89	3.36	0.00	91.75	N/A	N/A
2441.00	52.51	AV	V	24.89	3.36	0.00	80.76	N/A	N/A
4882.00	44.44	PK	H	29.86	4.56	27.56	51.30	74.00	22.70
4882.00	31.64	AV	H	29.86	4.56	27.56	38.50	54.00	15.50
7323.00	50.77	PK	H	34.12	5.69	27.26	63.32	74.00	10.68
7323.00	38.13	AV	H	34.12	5.69	27.26	50.68	54.00	3.32
High Channel: 2480 MHz									
2480.00	72.65	PK	H	24.96	3.38	0.00	100.99	N/A	N/A
2480.00	62.00	AV	H	24.96	3.38	0.00	90.34	N/A	N/A
2480.00	68.64	PK	V	24.96	3.38	0.00	96.98	N/A	N/A
2480.00	58.30	AV	V	24.96	3.38	0.00	86.64	N/A	N/A
2483.50	34.86	PK	H	24.97	3.38	0.00	63.21	74.00	10.79
2483.50	22.76	AV	H	24.97	3.38	0.00	51.11	54.00	2.89
4960.00	45.10	PK	H	30.02	4.58	27.37	52.33	74.00	21.67
4960.00	32.54	AV	H	30.02	4.58	27.37	39.77	54.00	14.23
7440.00	51.06	PK	H	34.30	5.79	27.22	63.93	74.00	10.07
7440.00	38.79	AV	H	34.30	5.79	27.22	51.66	54.00	2.34

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

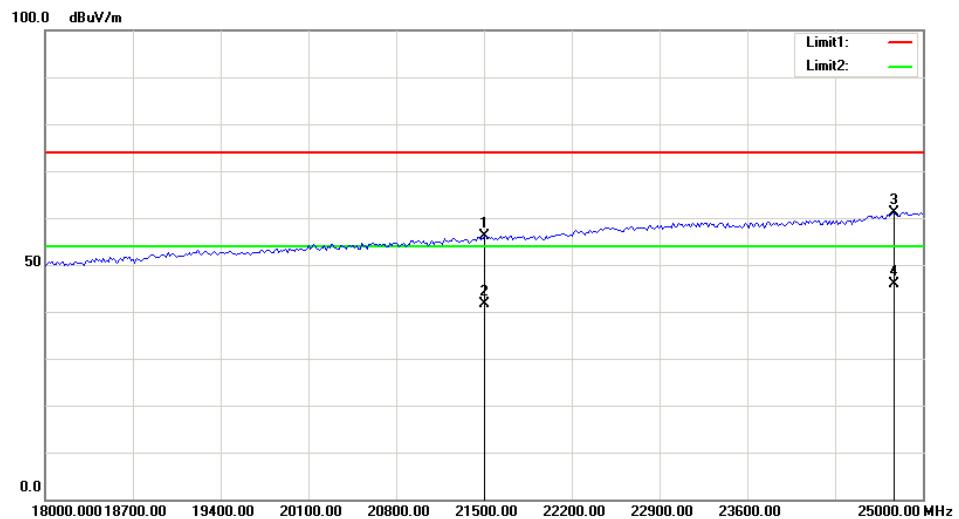
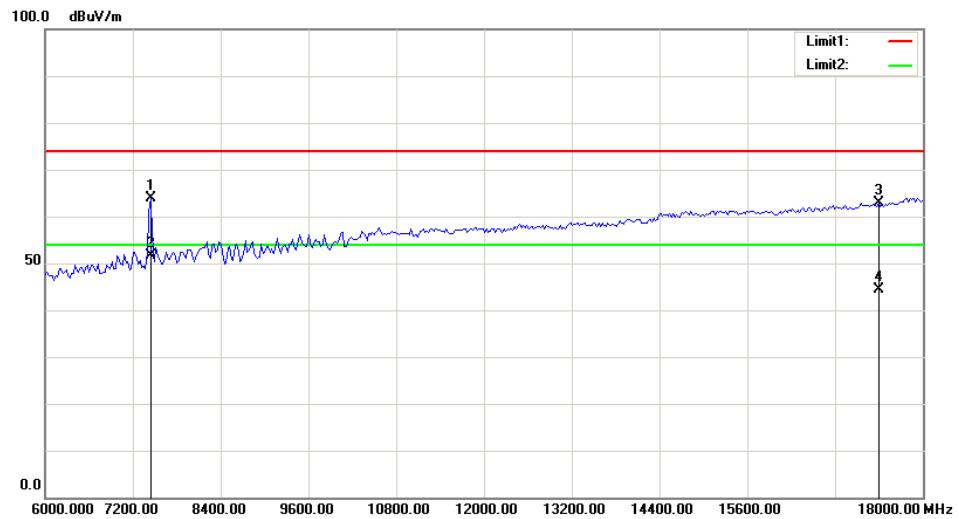
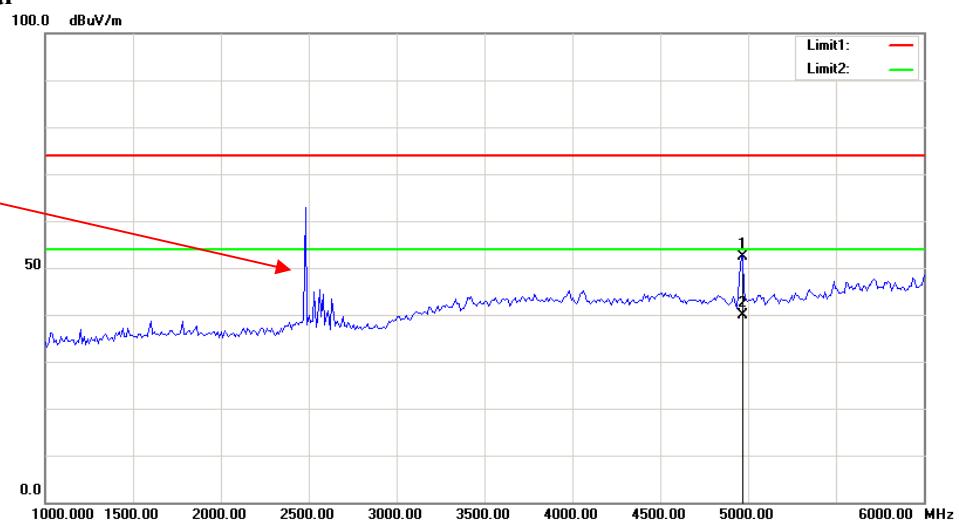
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	58.92	PK	H	24.82	3.34	0.00	87.08	N/A	N/A
2402.00	48.67	AV	H	24.82	3.34	0.00	76.83	N/A	N/A
2402.00	56.91	PK	V	24.82	3.34	0.00	85.07	N/A	N/A
2402.00	46.79	AV	V	24.82	3.34	0.00	74.95	N/A	N/A
2390.00	25.10	PK	H	24.80	3.33	0.00	53.23	74.00	20.77
2390.00	13.21	AV	H	24.80	3.33	0.00	41.34	54.00	12.66
4804.00	43.22	PK	H	29.71	4.58	27.36	50.15	74.00	23.85
4804.00	30.00	AV	H	29.71	4.58	27.36	36.93	54.00	17.07
7206.00	41.23	PK	H	33.93	5.59	27.19	53.56	74.00	20.44
7206.00	27.41	AV	H	33.93	5.59	27.19	39.74	54.00	14.26
Middle Channel: 2441 MHz									
2441.00	66.70	PK	H	24.89	3.36	0.00	94.95	N/A	N/A
2441.00	55.15	AV	H	24.89	3.36	0.00	83.40	N/A	N/A
2441.00	63.32	PK	V	24.89	3.36	0.00	91.57	N/A	N/A
2441.00	53.24	AV	V	24.89	3.36	0.00	81.49	N/A	N/A
4882.00	41.95	PK	H	29.86	4.56	27.56	48.81	74.00	25.19
4882.00	28.48	AV	H	29.86	4.56	27.56	35.34	54.00	18.66
7323.00	45.66	PK	H	34.12	5.69	27.26	58.21	74.00	15.79
7323.00	30.47	AV	H	34.12	5.69	27.26	43.02	54.00	10.98
High Channel: 2480 MHz									
2480.00	70.86	PK	H	24.96	3.38	0.00	99.20	N/A	N/A
2480.00	60.71	AV	H	24.96	3.38	0.00	89.05	N/A	N/A
2480.00	64.12	PK	V	24.96	3.38	0.00	92.46	N/A	N/A
2480.00	54.02	AV	V	24.96	3.38	0.00	82.36	N/A	N/A
2483.50	33.17	PK	H	24.97	3.38	0.00	61.52	74.00	12.48
2483.50	21.17	AV	H	24.97	3.38	0.00	49.52	54.00	4.48
4960.00	40.00	PK	H	30.02	4.58	27.37	47.23	74.00	26.77
4960.00	27.62	AV	H	30.02	4.58	27.37	34.85	54.00	19.15
7440.00	45.48	PK	H	34.30	5.79	27.22	58.35	74.00	15.65
7440.00	30.44	AV	H	34.30	5.79	27.22	43.31	54.00	10.69

EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	59.07	PK	H	24.82	3.34	0.00	87.23	N/A	N/A
2402.00	49.53	AV	H	24.82	3.34	0.00	77.69	N/A	N/A
2402.00	57.05	PK	V	24.82	3.34	0.00	85.21	N/A	N/A
2402.00	47.00	AV	V	24.82	3.34	0.00	75.16	N/A	N/A
2390.00	25.69	PK	H	24.80	3.33	0.00	53.82	74.00	20.18
2390.00	13.20	AV	H	24.80	3.33	0.00	41.33	54.00	12.67
4804.00	44.12	PK	H	29.71	4.58	27.36	51.05	74.00	22.95
4804.00	31.20	AV	H	29.71	4.58	27.36	38.13	54.00	15.87
7206.00	41.53	PK	H	33.93	5.59	27.19	53.86	74.00	20.14
7206.00	28.32	AV	H	33.93	5.59	27.19	40.65	54.00	13.35
Middle Channel: 2441 MHz									
2441.00	66.25	PK	H	24.89	3.36	0.00	94.50	N/A	N/A
2441.00	56.21	AV	H	24.89	3.36	0.00	84.46	N/A	N/A
2441.00	60.25	PK	V	24.89	3.36	0.00	88.50	N/A	N/A
2441.00	50.54	AV	V	24.89	3.36	0.00	78.79	N/A	N/A
4882.00	42.00	PK	H	29.86	4.56	27.56	48.86	74.00	25.14
4882.00	28.78	AV	H	29.86	4.56	27.56	35.64	54.00	18.36
7323.00	46.16	PK	H	34.12	5.69	27.26	58.71	74.00	15.29
7323.00	31.58	AV	H	34.12	5.69	27.26	44.13	54.00	9.87
High Channel: 2480 MHz									
2480.00	71.30	PK	H	24.96	3.38	0.00	99.64	N/A	N/A
2480.00	61.25	AV	H	24.96	3.38	0.00	89.59	N/A	N/A
2480.00	65.89	PK	V	24.96	3.38	0.00	94.23	N/A	N/A
2480.00	55.43	AV	V	24.96	3.38	0.00	83.77	N/A	N/A
2483.50	32.91	PK	H	24.97	3.38	0.00	61.26	74.00	12.74
2483.50	20.14	AV	H	24.97	3.38	0.00	48.49	54.00	5.51
4960.00	40.12	PK	H	30.02	4.58	27.37	47.35	74.00	26.65
4960.00	27.70	AV	H	30.02	4.58	27.37	34.93	54.00	19.07
7440.00	46.06	PK	H	34.30	5.79	27.22	58.93	74.00	15.07
7440.00	32.11	AV	H	34.30	5.79	27.22	44.98	54.00	9.02

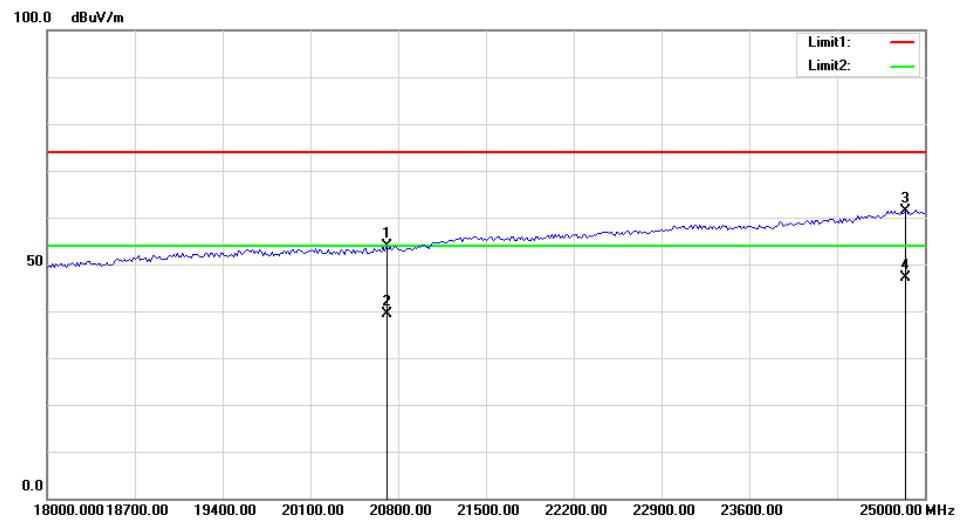
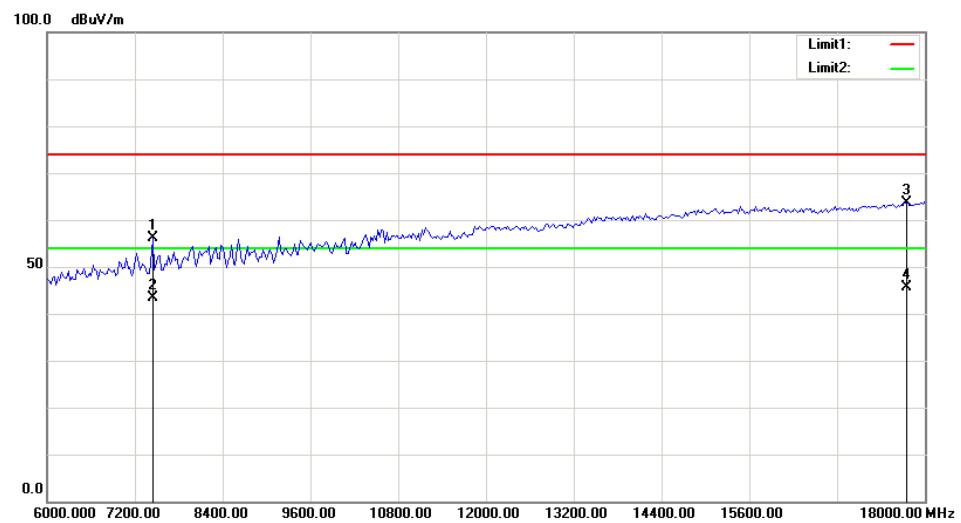
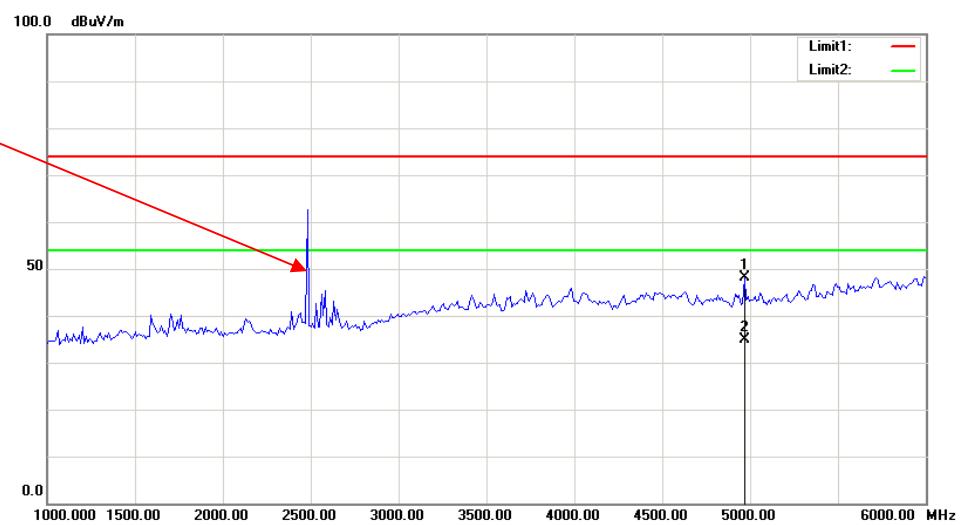
Worst plots (GFSK High channel)**Horizontal**

Fundamental
Test with Band
Rejection Filter



Vertical

Fundamental Test with Band Rejection Filter



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	FSU 26	200256	2018-01-04	2019-01-04
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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 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:	25.6 °C
Relative Humidity:	42 %
ATM Pressure:	99.7 kPa

* The testing was performed by Harry Yang on 2018-12-16.

Test Result: Compliance.

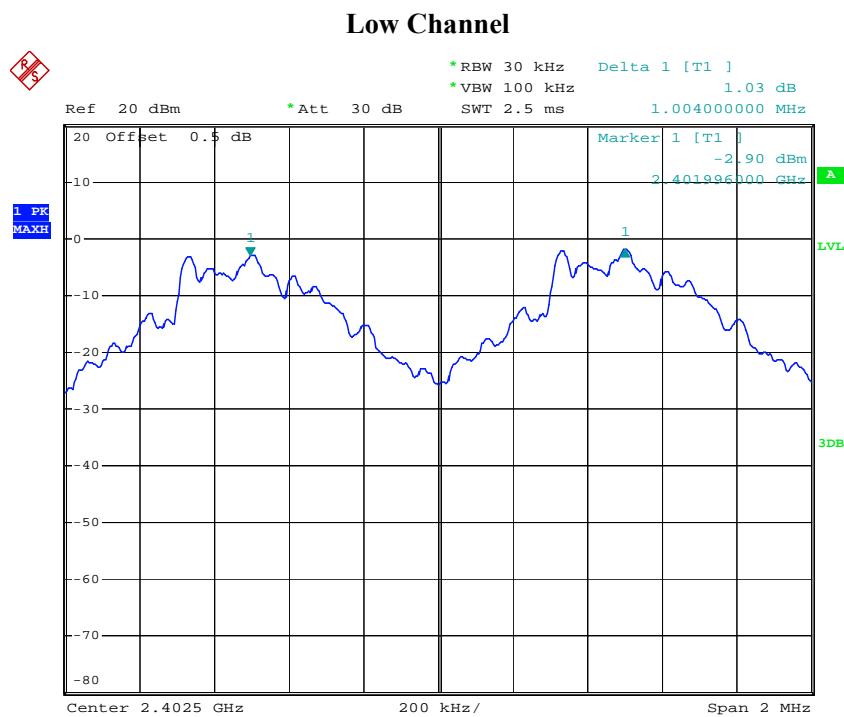
Please refer to following tables and plots

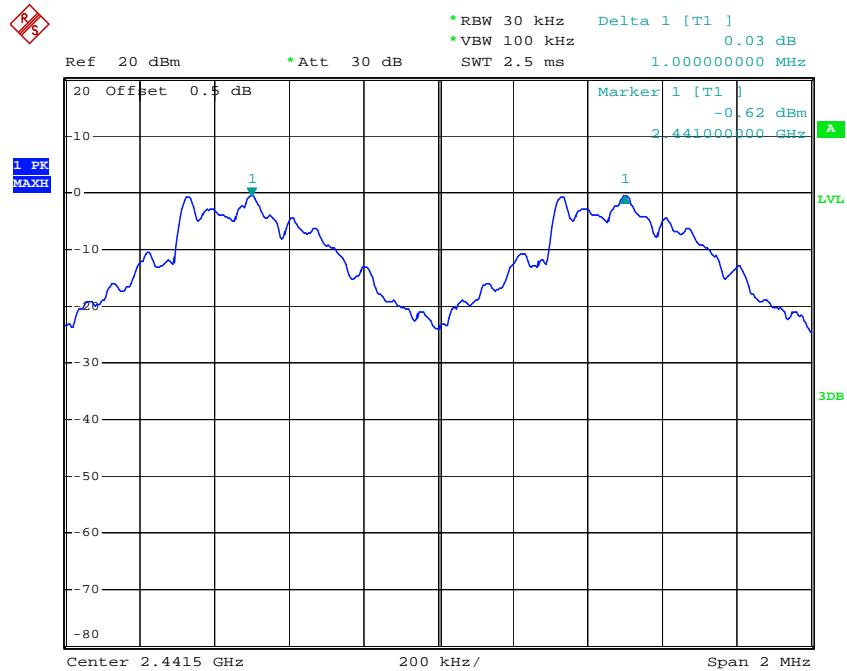
Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
<i>BDR (GFSK)</i>	Low	2402	1.004	0.61
	Middle	2441	1.000	0.59
	High	2480	0.996	0.59
<i>EDR ($\pi/4$-DQPSK)</i>	Low	2402	1.004	0.82
	Middle	2441	1.004	0.81
	High	2480	1.000	0.81
<i>EDR (8DPSK)</i>	Low	2402	1.000	0.80
	Middle	2441	1.000	0.81
	High	2480	1.000	0.81

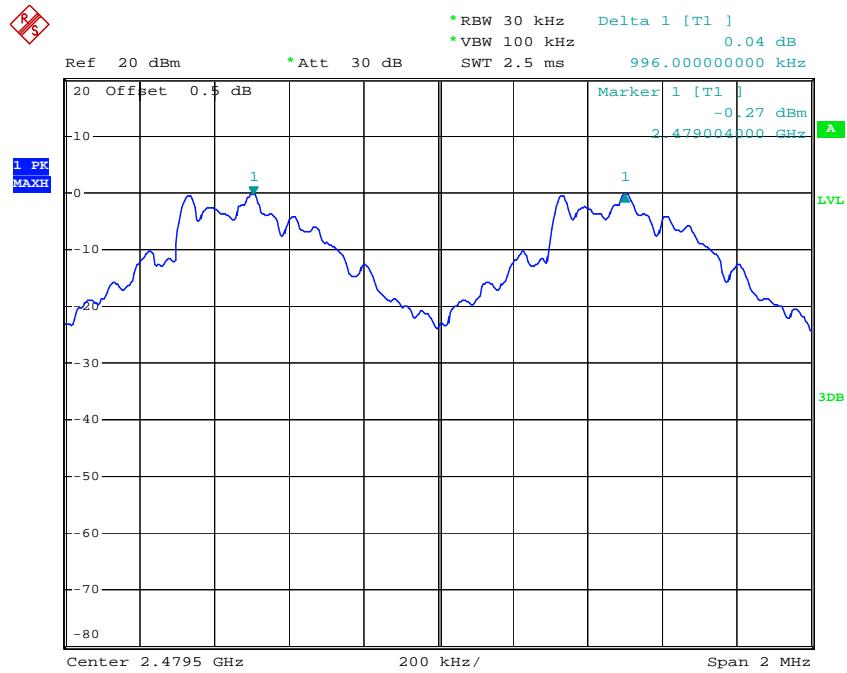
Note: Limit = $(2/3) \times 20\text{dB bandwidth}$

BDR Mode (GFSK):



Middle Channel

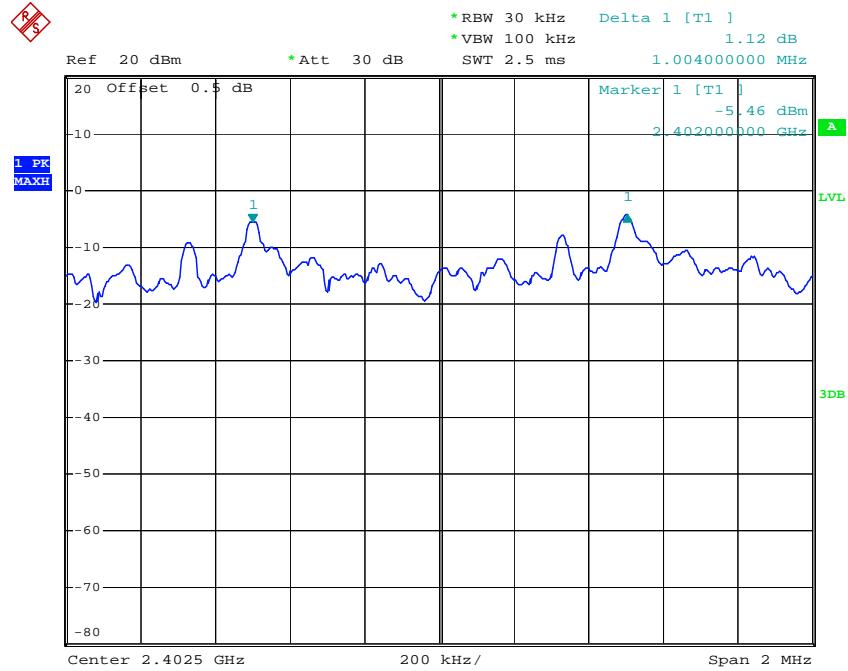
Date: 16.DEC.2018 11:55:05

High Channel

Date: 16.DEC.2018 11:54:20

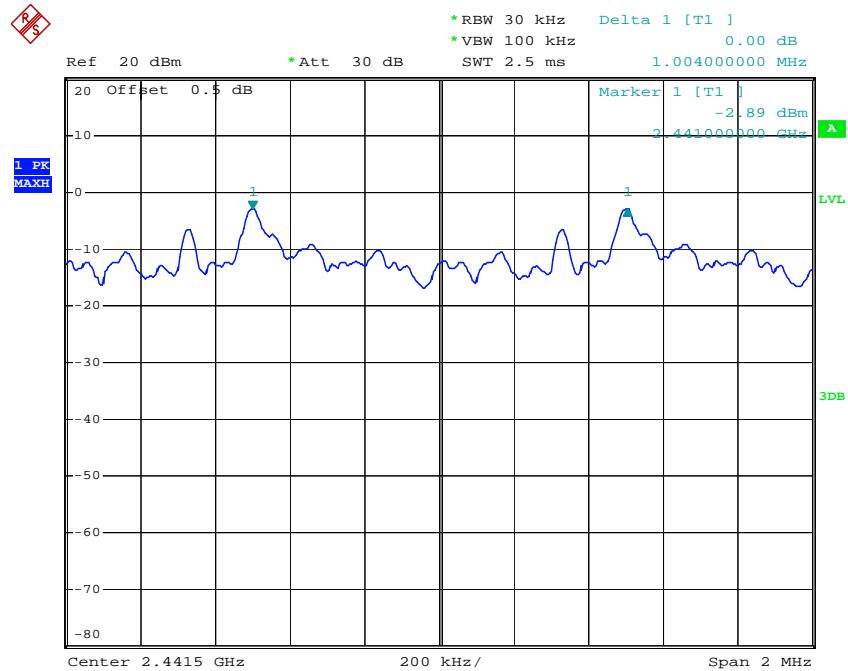
EDR Mode ($\pi/4$ -DQPSK):

Low Channel

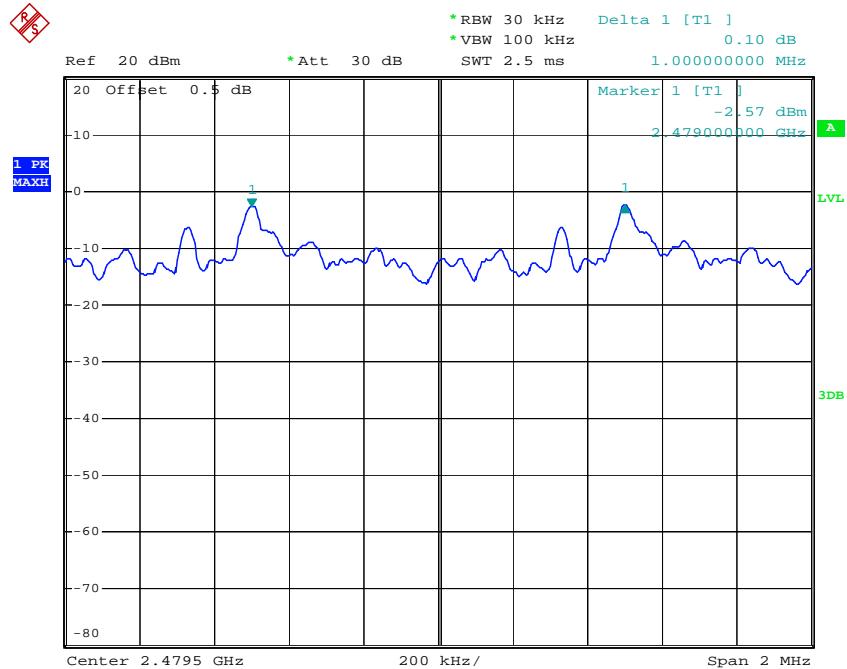


Date: 16.DEC.2018 11:52:17

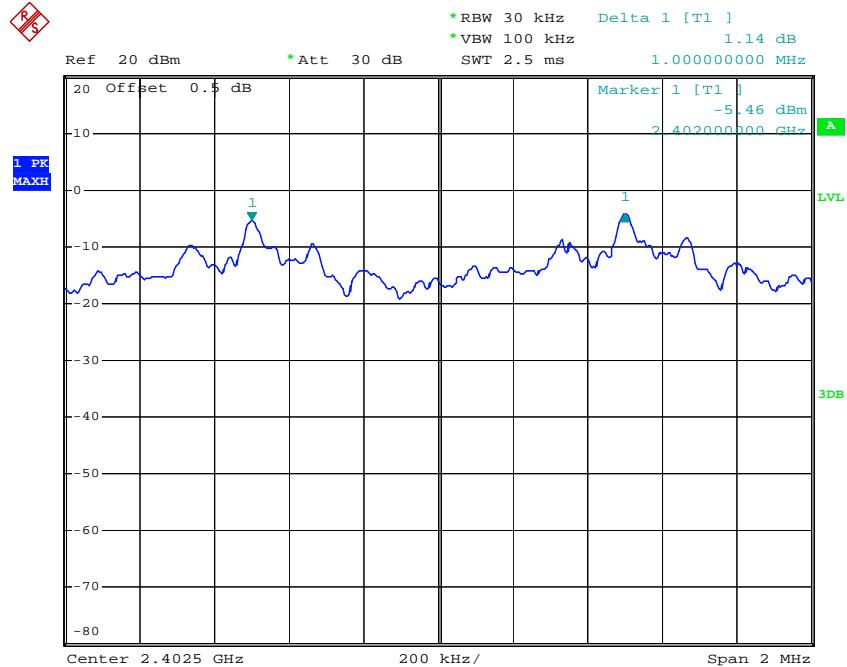
Middle Channel



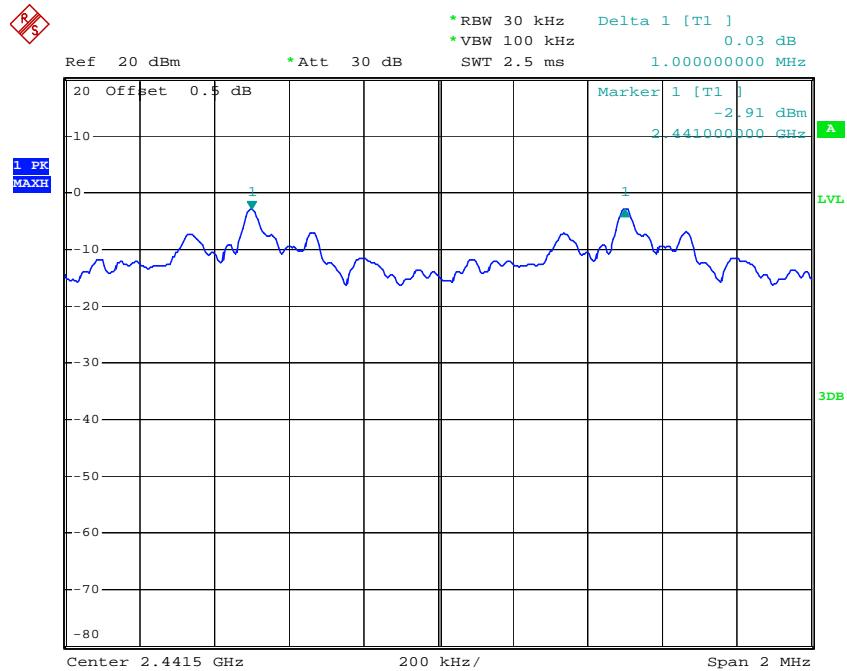
Date: 16.DEC.2018 11:52:50

High Channel

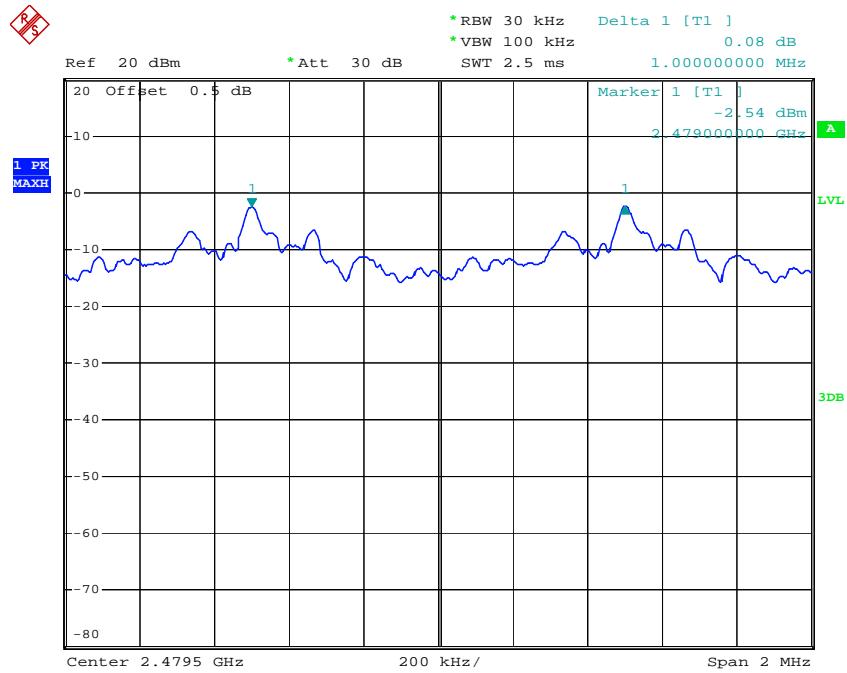
Date: 16.DEC.2018 11:53:23

EDR Mode (8DPSK):**Low Channel**

Date: 16.DEC.2018 11:51:31

Middle Channel

Date: 16.DEC.2018 11:50:58

High Channel

Date: 16.DEC.2018 11:50:18

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	FSU 26	200256	2018-01-04	2019-01-04
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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 Data

Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	42 %
ATM Pressure:	99.7 kPa

* The testing was performed by Harry Yang on 2018-12-16.

Test Result: Compliance.

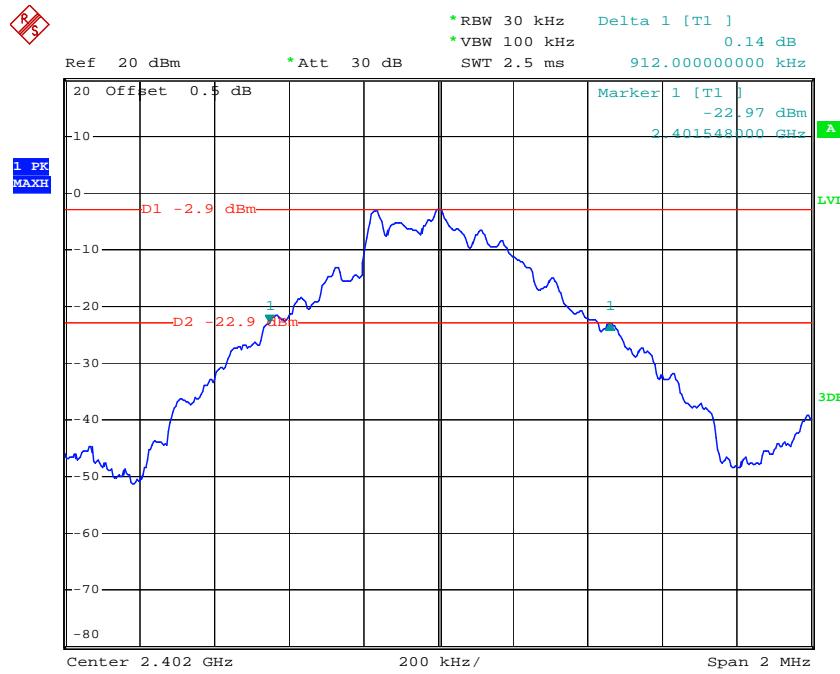
Please refer to following tables and plots

Test Mode: Transmitting

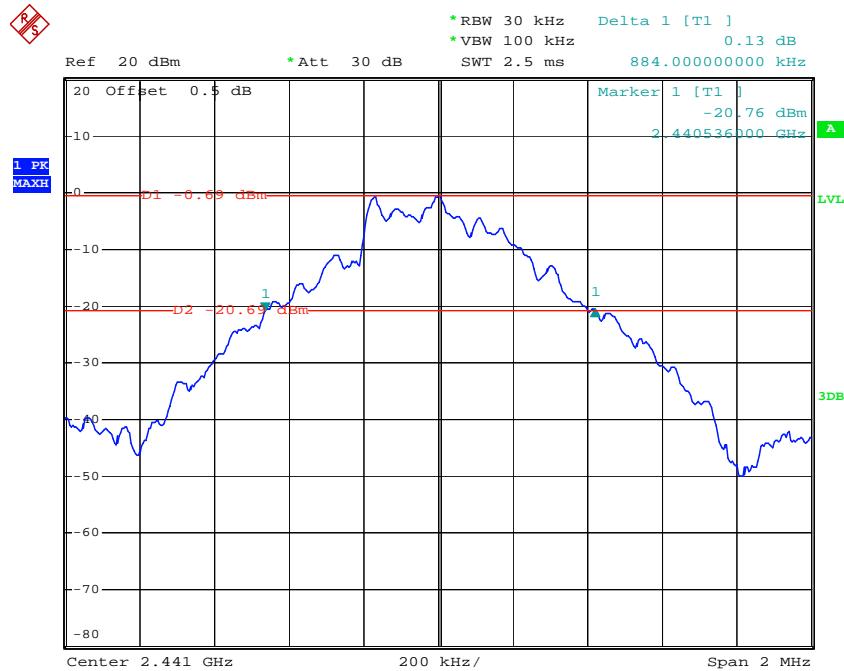
Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.912
	Middle	2441	0.884
	High	2480	0.884
EDR Mode ($\pi/4$ -DQPSK)	Low	2402	1.224
	Middle	2441	1.220
	High	2480	1.220
EDR Mode (8DPSK)	Low	2402	1.200
	Middle	2441	1.208
	High	2480	1.208

BDR Mode (GFSK):

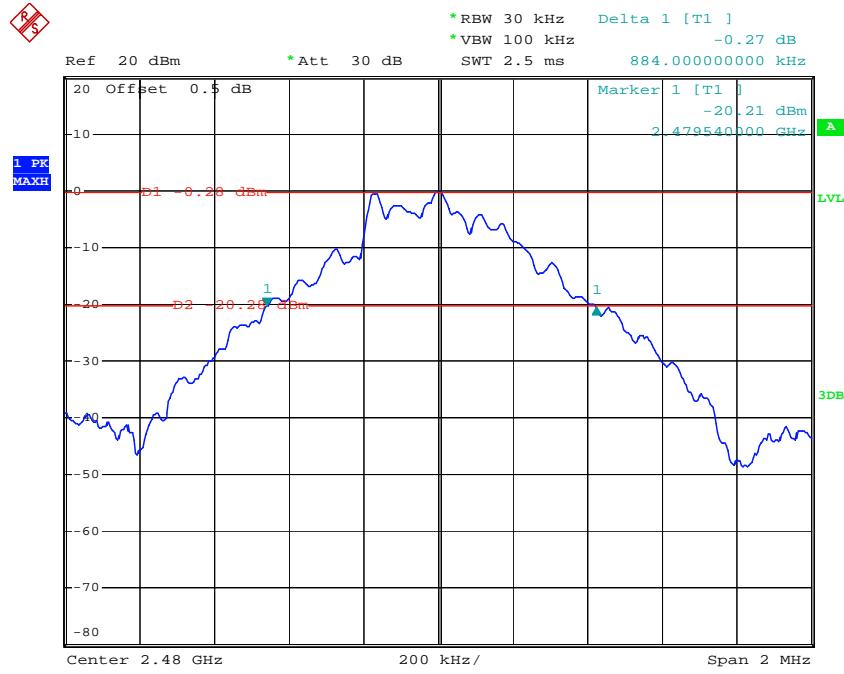
Low Channel



Date: 16.DEC.2018 11:23:31

Middle Channel

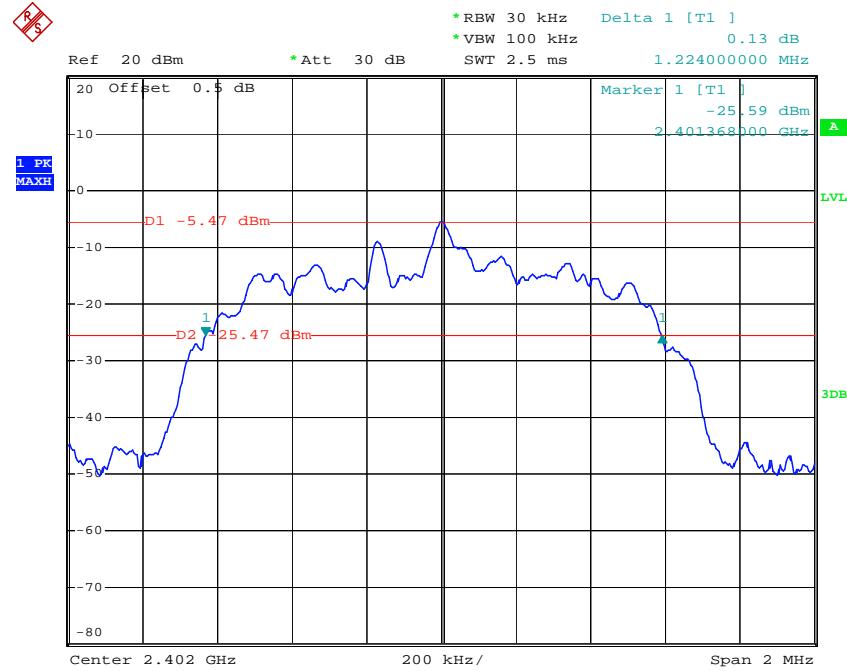
Date: 16.DEC.2018 11:25:56

High Channel

Date: 16.DEC.2018 11:27:47

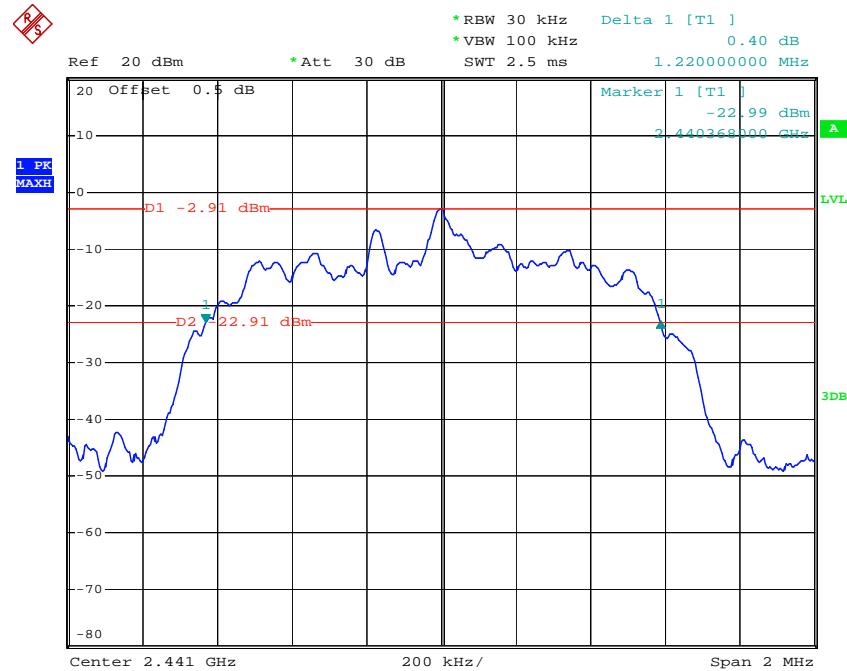
EDR Mode ($\pi/4$ -DQPSK):

Low Channel



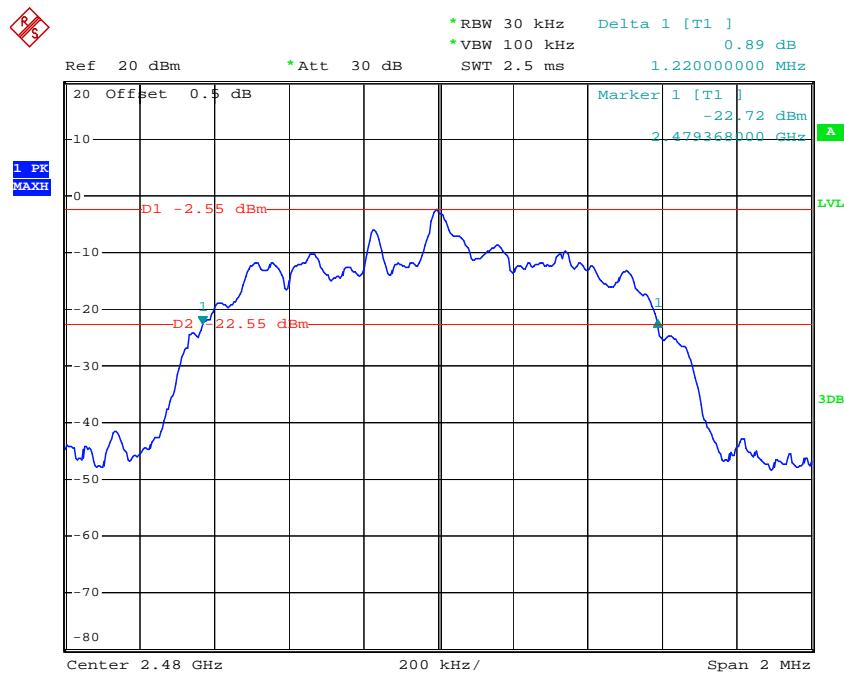
Date: 16.DEC.2018 11:41:15

Middle Channel



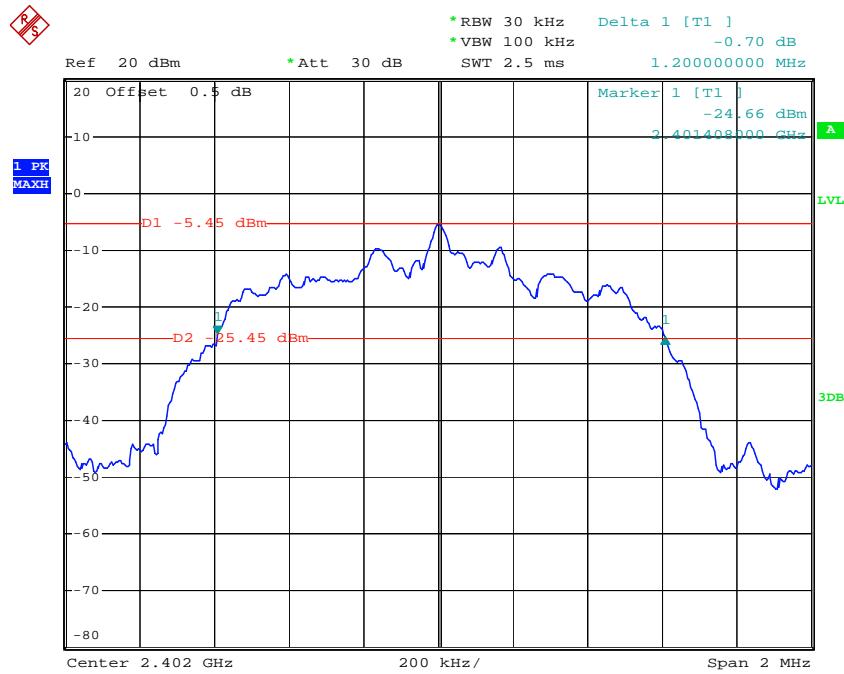
Date: 16.DEC.2018 11:39:43

High Channel

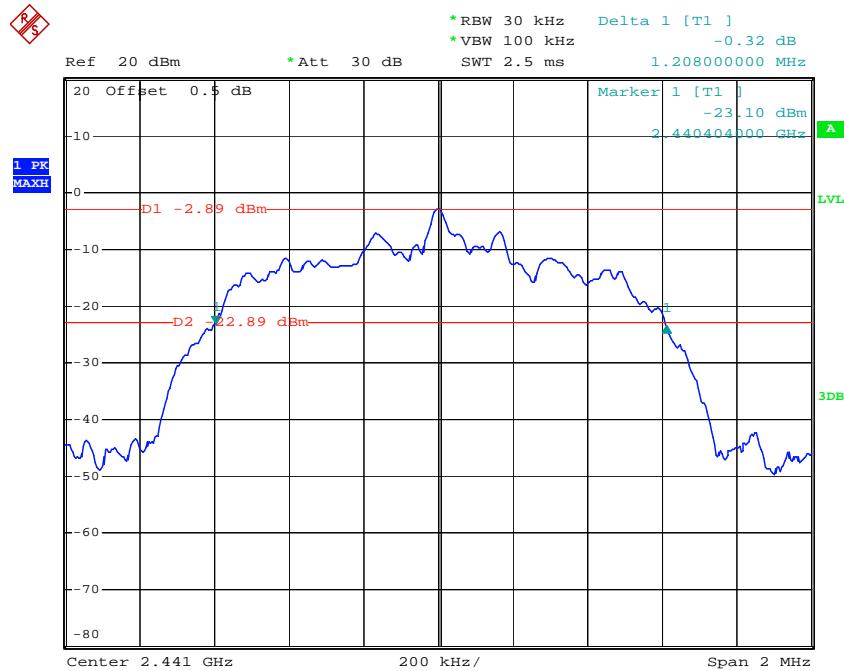


Date: 16.DEC.2018 11:37:51
EDR Mode (8DPSK):

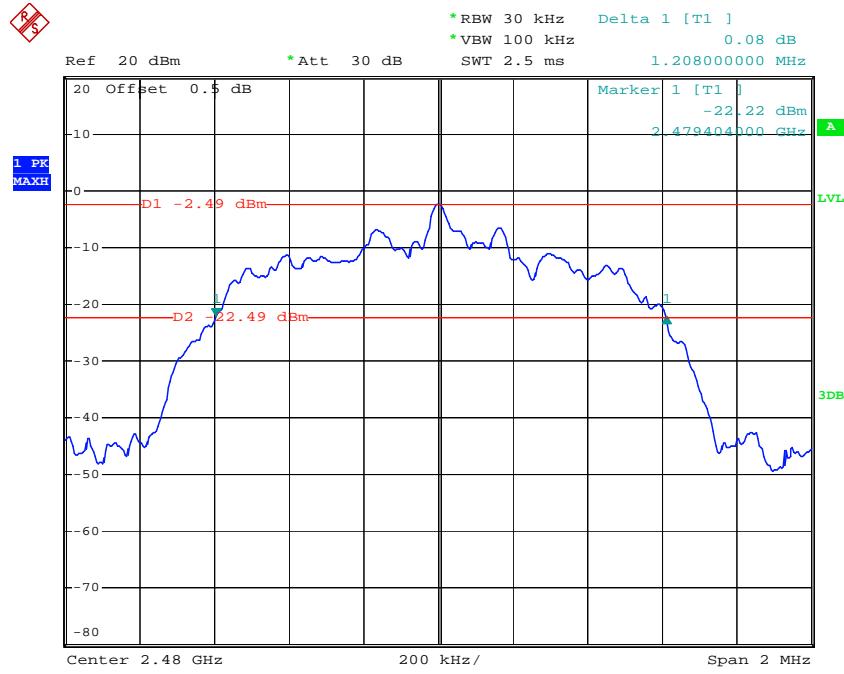
Low Channel



Date: 16.DEC.2018 11:44:38

Middle Channel

Date: 16.DEC.2018 11:46:09

High Channel

Date: 16.DEC.2018 11:47:08

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	FSU 26	200256	2018-01-04	2019-01-04
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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 Data

Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	42 %
ATM Pressure:	99.7 kPa

* The testing was performed by Harry Yang on 2018-12-16.

Test Result: Compliance.

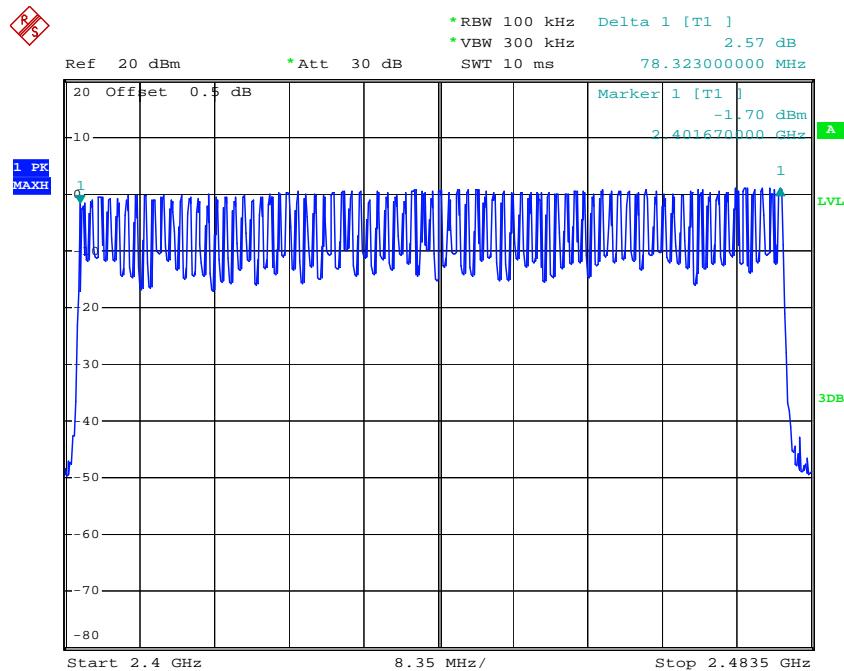
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

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

Number of Hopping Channels

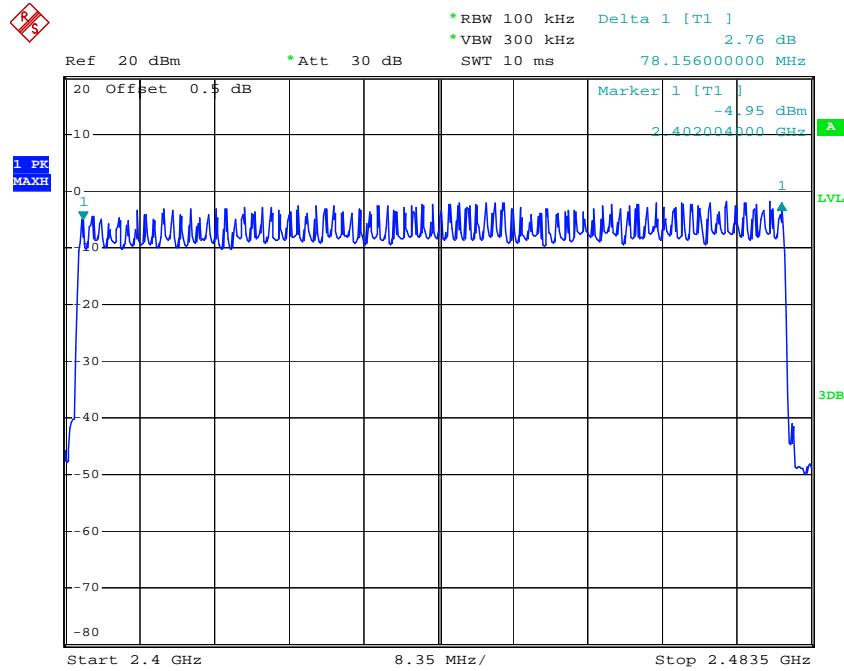


Date: 16.DEC.2018 11:58:26

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

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

Number of Hopping Channels

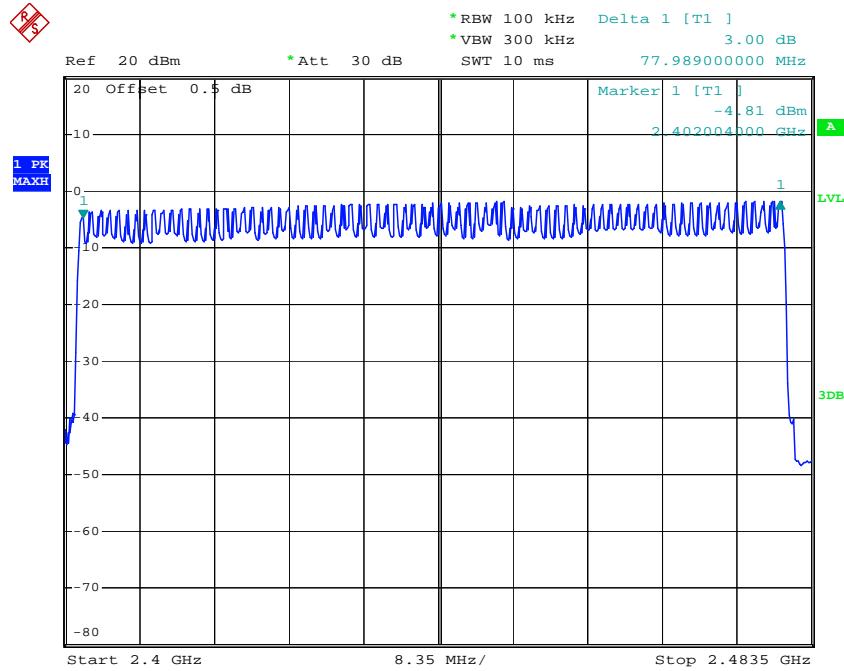


Date: 16.DEC.2018 12:00:58

EDR Mode (8DPSK):

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

Number of Hopping Channels



Date: 16.DEC.2018 12:38:07

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	FSU 26	200256	2018-01-04	2019-01-04
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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 Data**Environmental Conditions**

Temperature:	25.6 °C
Relative Humidity:	42 %
ATM Pressure:	99.7 kPa

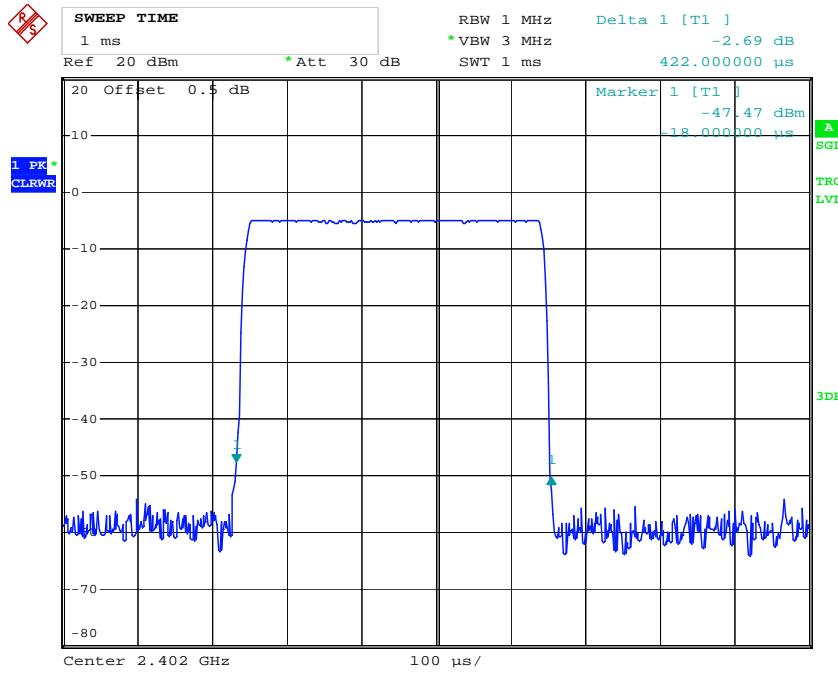
* The testing was performed by Harry Yang on 2018-12-16.

Test Mode: Transmitting

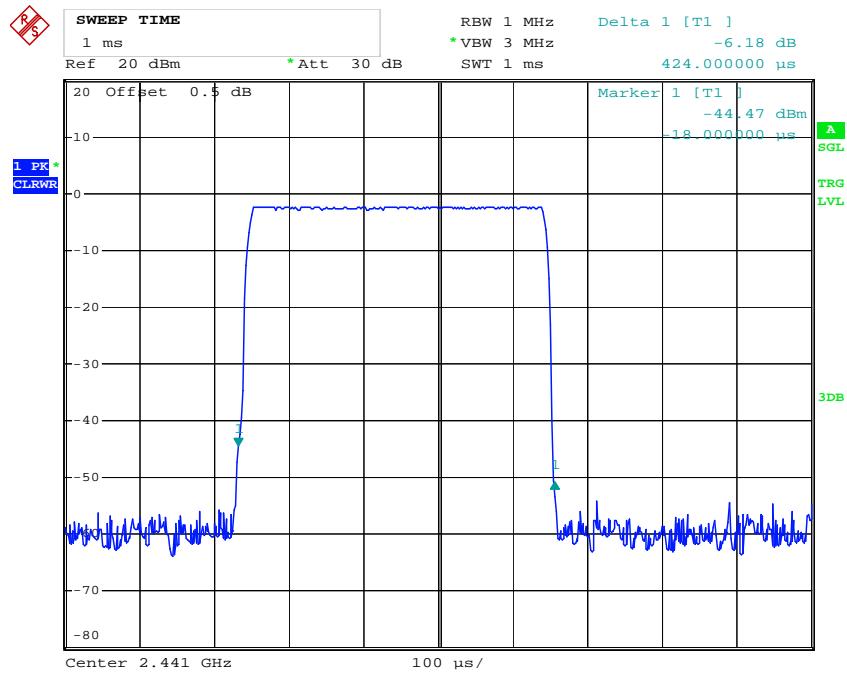
BDR Mode (GFSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.422	0.135	0.4	Compliance
	Middle	0.424	0.136	0.4	Compliance
	High	0.426	0.136	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s				
DH3	Low	1.692	0.271	0.4	Compliance
	Middle	1.692	0.271	0.4	Compliance
	High	1.692	0.271	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s				
DH5	Low	2.940	0.314	0.4	Compliance
	Middle	2.950	0.315	0.4	Compliance
	High	2.940	0.314	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

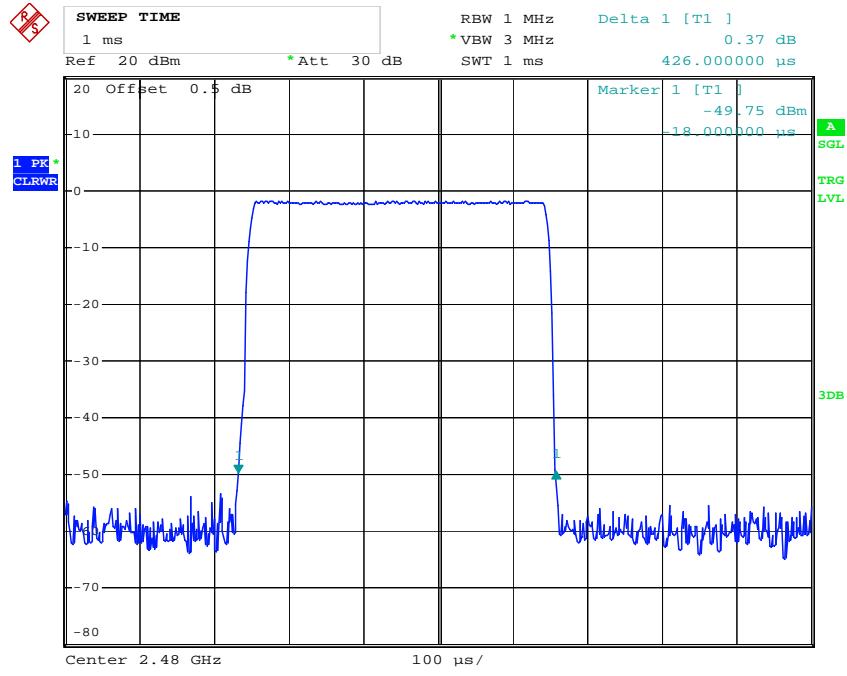
DH1: Low Channel



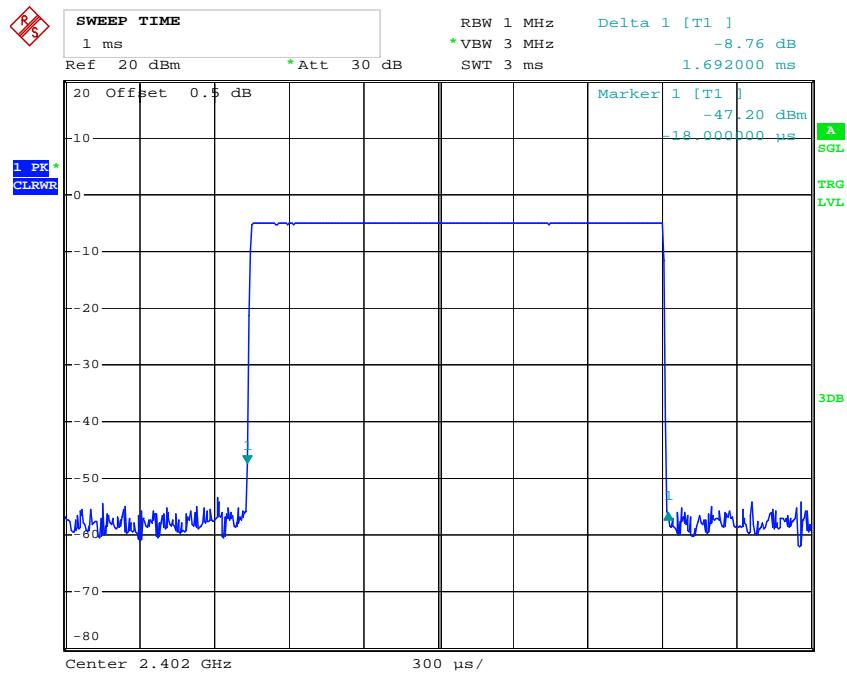
Date: 16.DEC.2018 12:47:09

DH1: Middle Channel

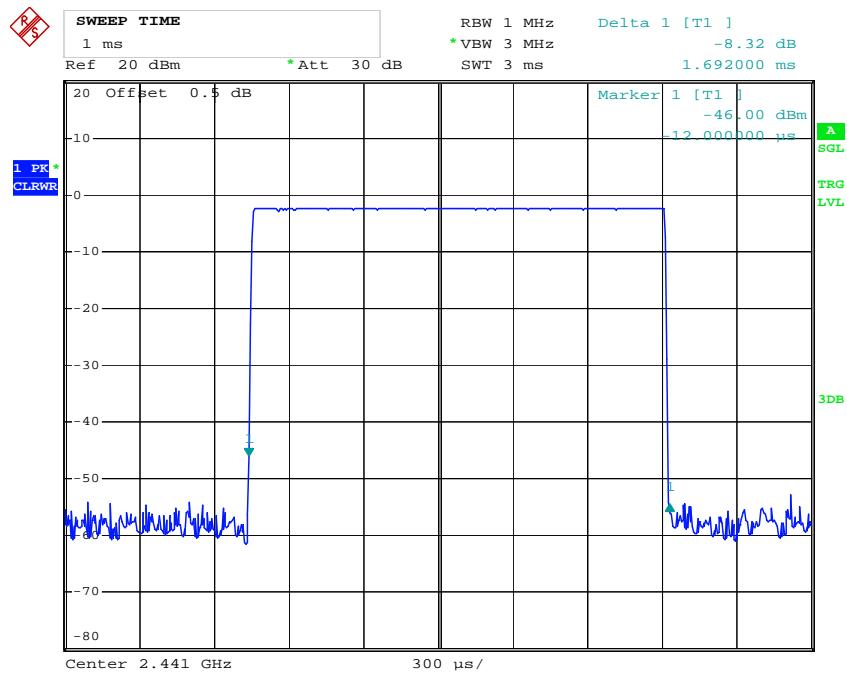
Date: 16.DEC.2018 12:47:15

DH1: High Channel

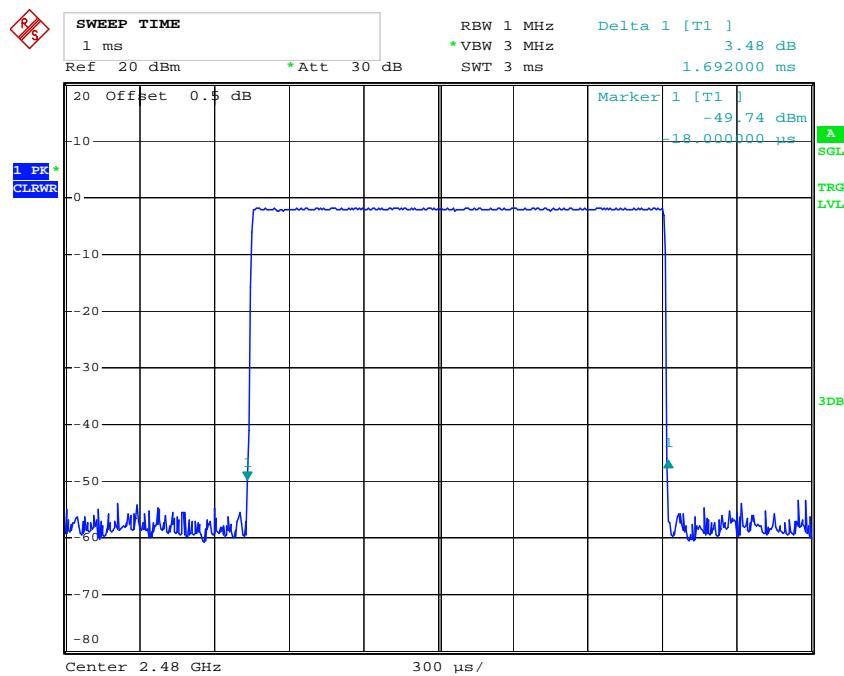
Date: 16.DEC.2018 12:47:20

DH3: Low Channel

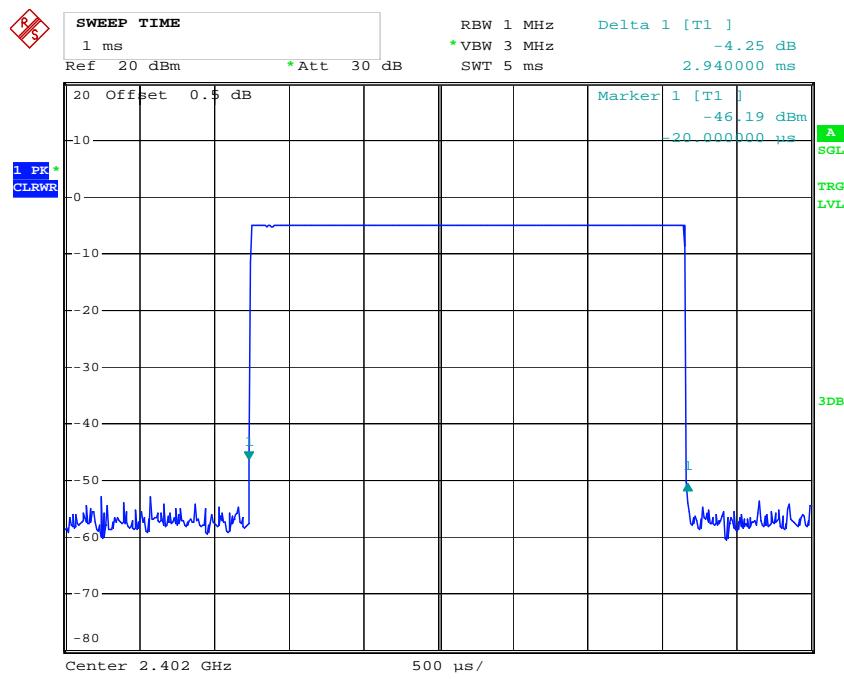
Date: 16.DEC.2018 12:47:41

DH3: Middle Channel

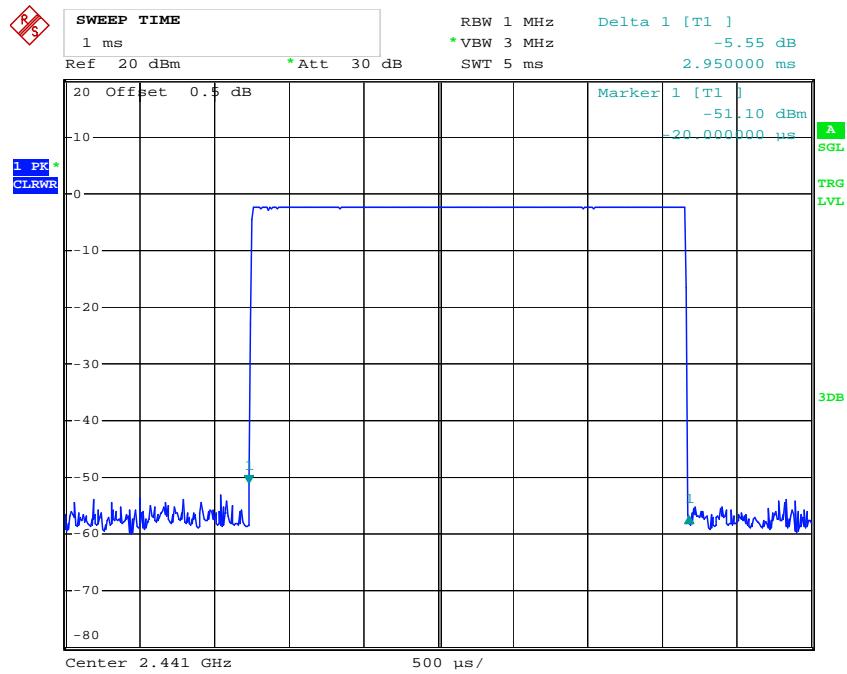
Date: 16.DEC.2018 12:47:46

DH3: High Channel

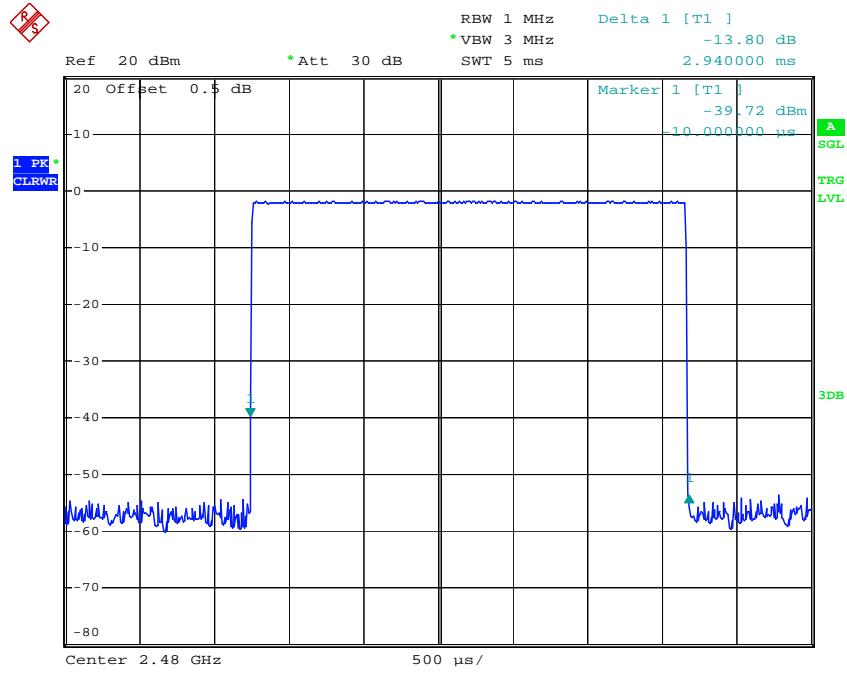
Date: 16.DEC.2018 12:47:52

DH5: Low Channel

Date: 16.DEC.2018 12:48:17

DH5: Middle Channel

Date: 16.DEC.2018 12:48:22

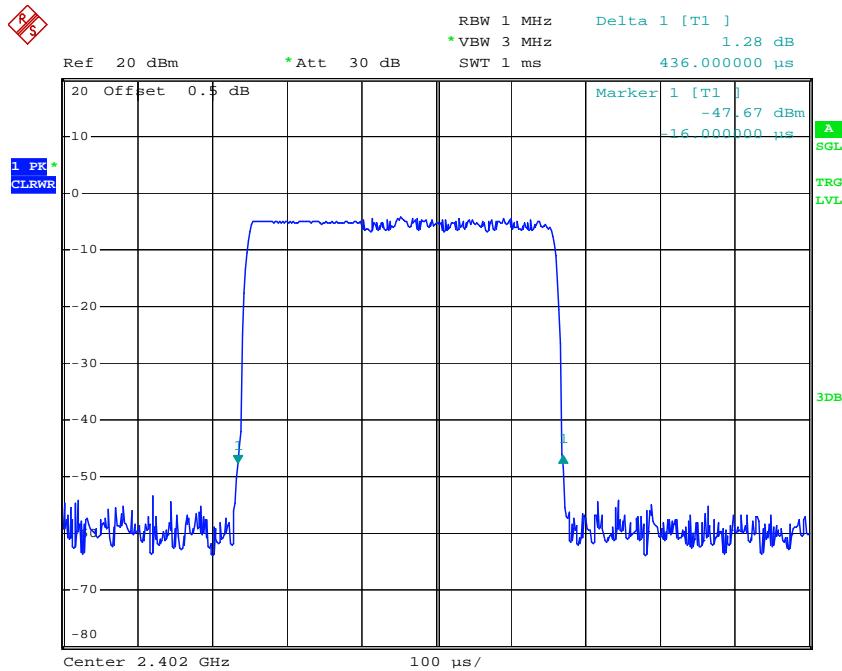
DH5: High Channel

Date: 16.DEC.2018 12:48:43

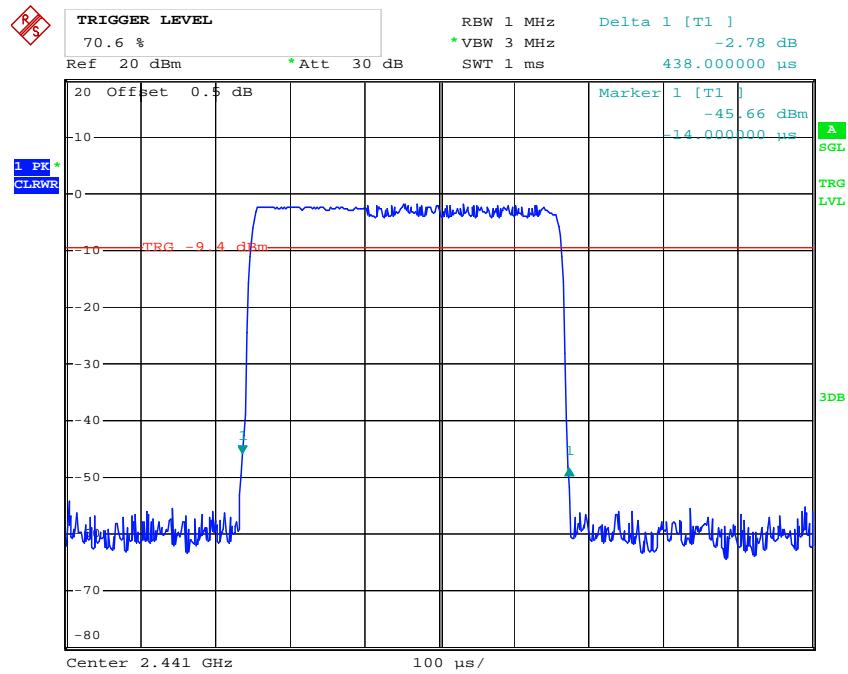
EDR Mode ($\pi/4$ -DQPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.436	0.14	0.4	Compliance
	Middle	0.438	0.14	0.4	Compliance
	High	0.438	0.14	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/2/79) \times 31.6 s				
2DH3	Low	1.704	0.273	0.4	Compliance
	Middle	1.704	0.273	0.4	Compliance
	High	1.698	0.272	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s				
2DH5	Low	2.960	0.316	0.4	Compliance
	Middle	2.960	0.316	0.4	Compliance
	High	2.960	0.316	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/6/79) \times 31.6 s				

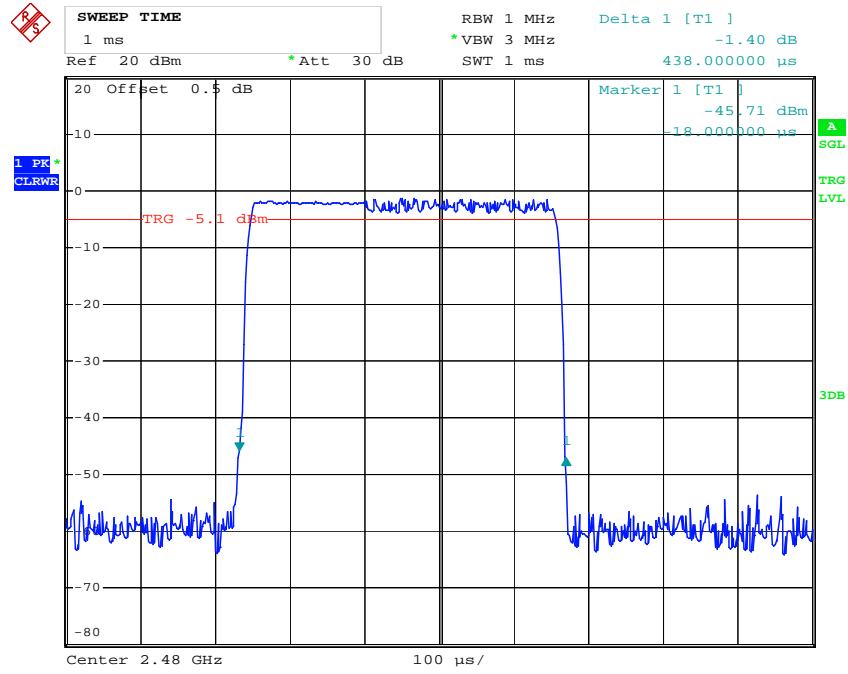
2DH1: Low Channel



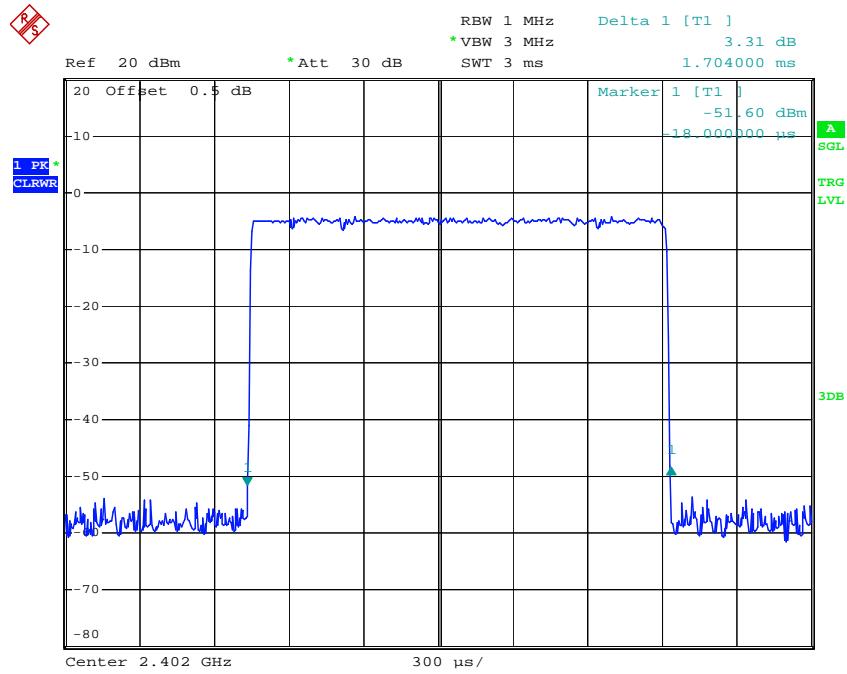
Date: 16.DEC.2018 12:45:46

2DH1: Middle Channel

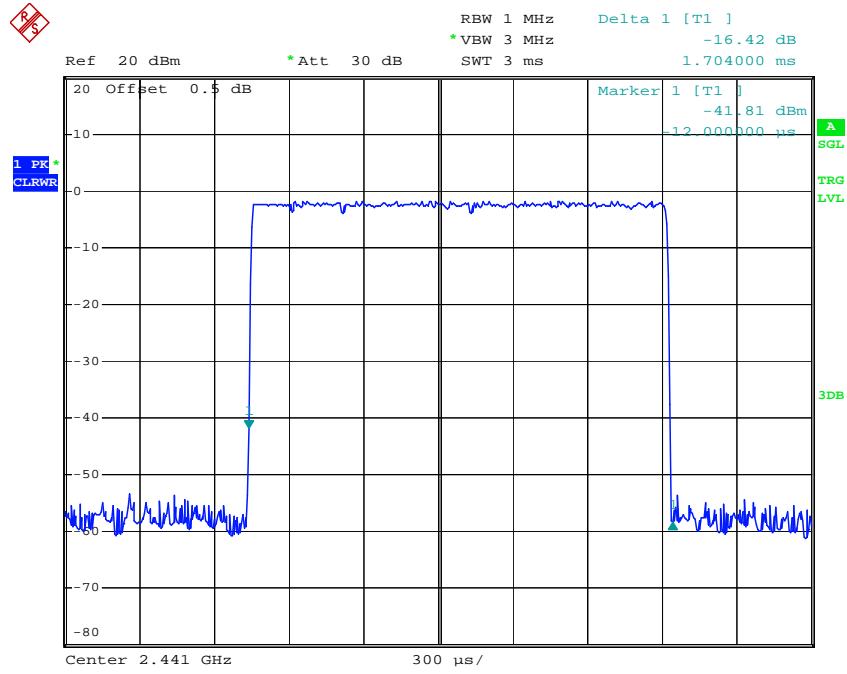
Date: 16.DEC.2018 12:46:33

2DH1: High Channel

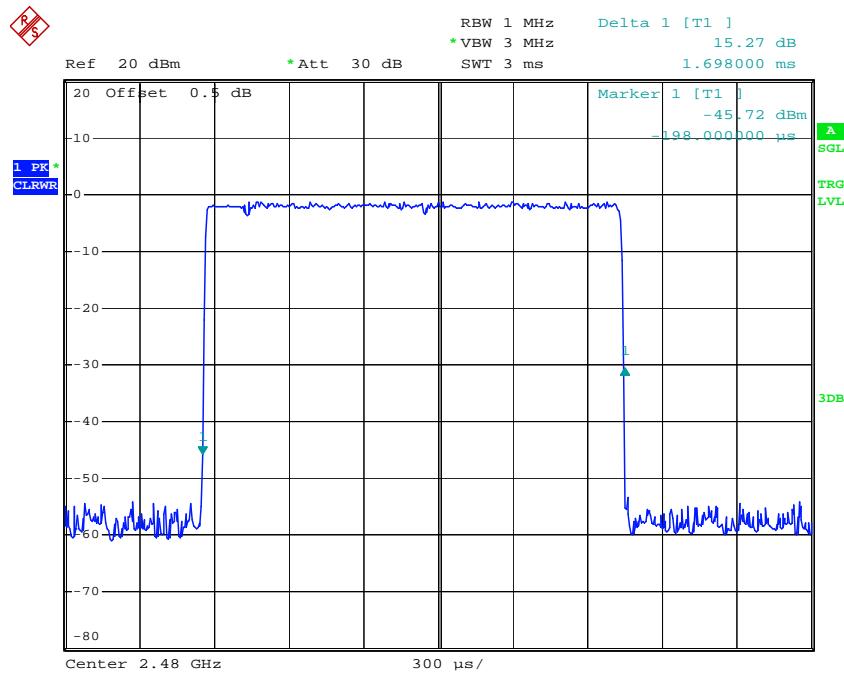
Date: 16.DEC.2018 12:46:49

2DH3: Low Channel

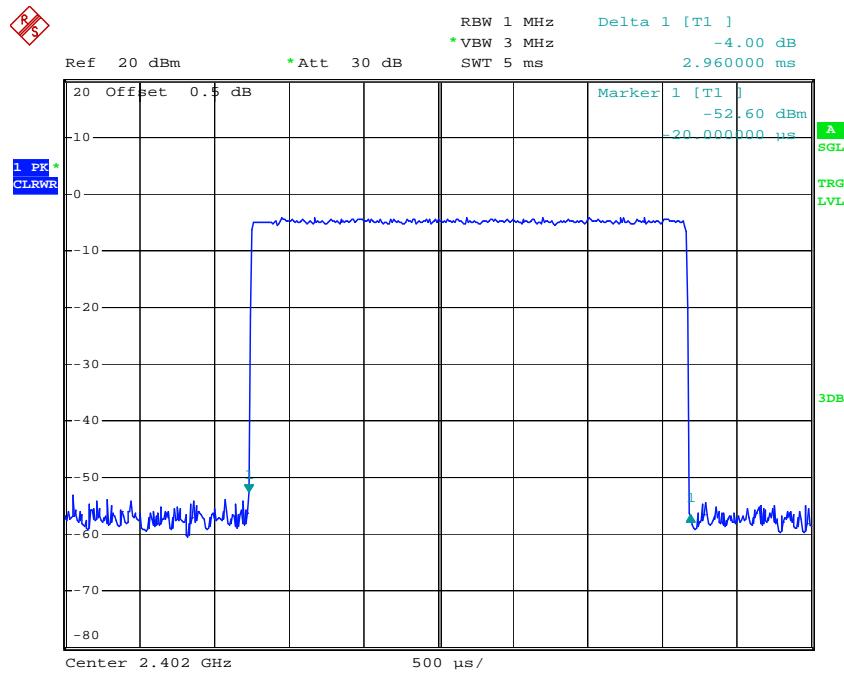
Date: 16.DEC.2018 12:44:36

2DH3: Middle Channel

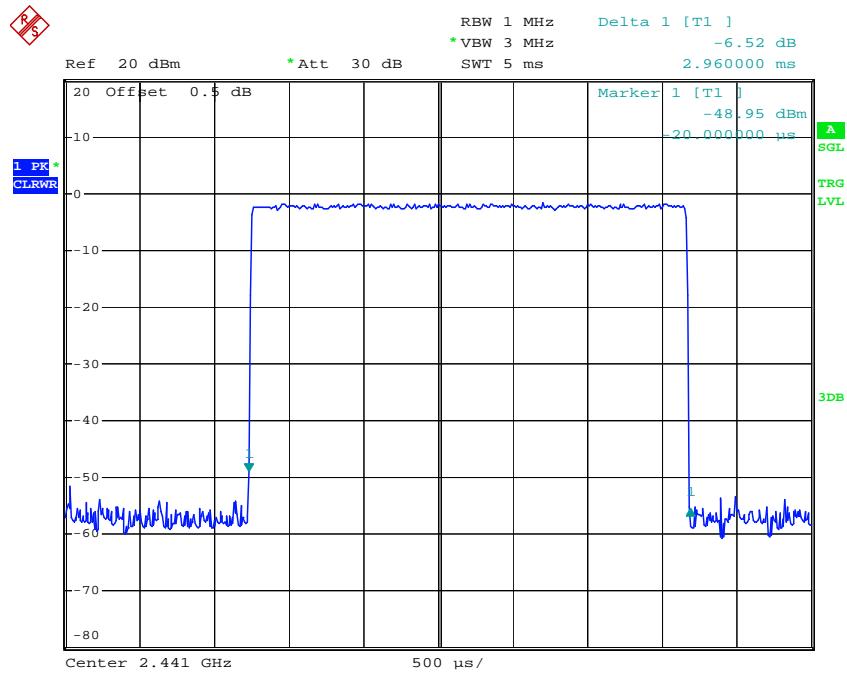
Date: 16.DEC.2018 12:44:41

2DH3: High Channel

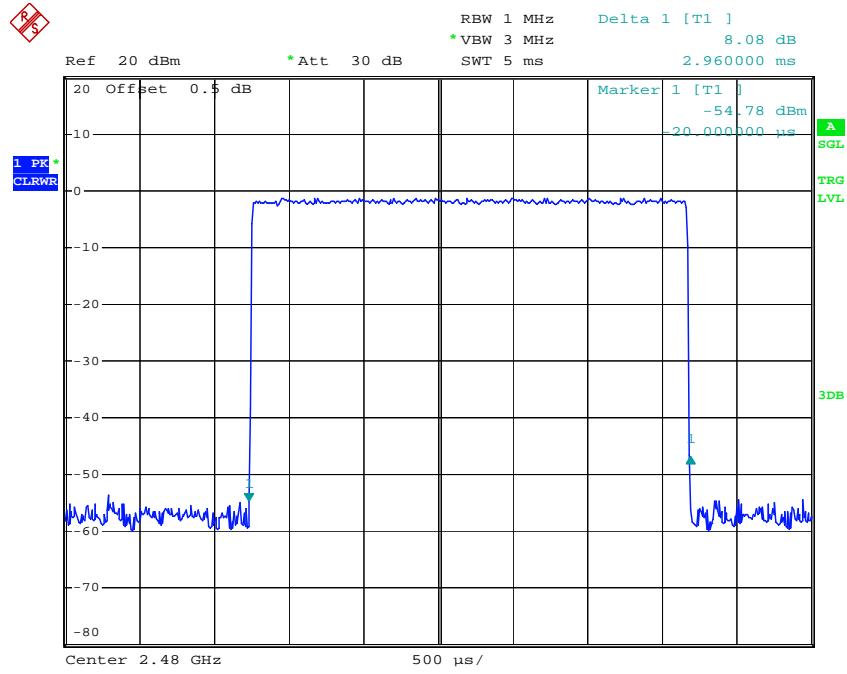
Date: 16.DEC.2018 12:45:17

2DH5: Low Channel

Date: 16.DEC.2018 12:43:30

2DH5: Middle Channel

Date: 16.DEC.2018 12:43:36

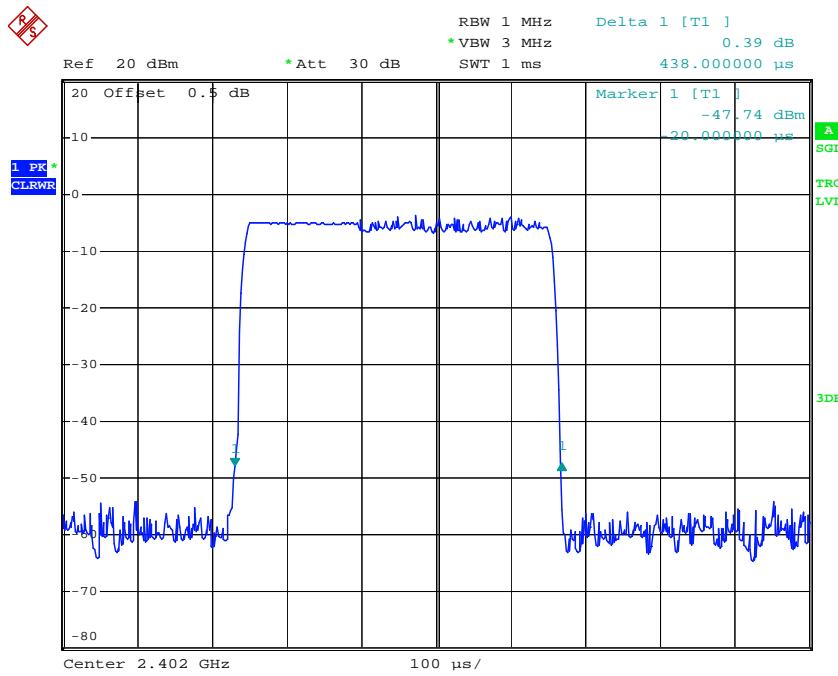
2DH5: High Channel

Date: 16.DEC.2018 12:43:41

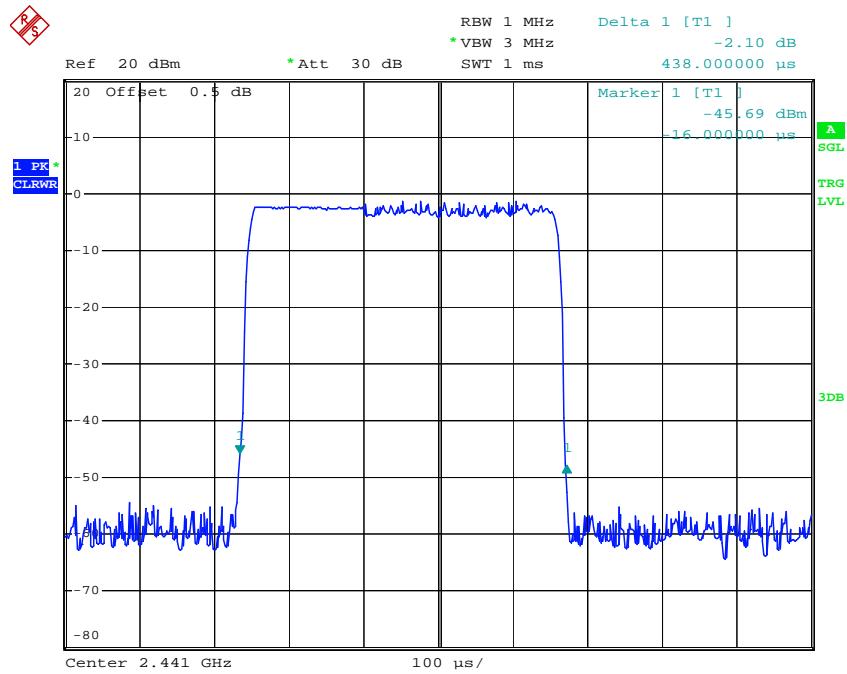
EDR Mode (8DPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
3DH1	Low	0.438	0.14	0.4	Compliance
	Middle	0.438	0.14	0.4	Compliance
	High	0.438	0.14	0.4	Compliance
Note: Dwell time=Pulse time (ms) × (1600/2/79) × 31.6 s					
3DH3	Low	1.698	0.272	0.4	Compliance
	Middle	1.698	0.272	0.4	Compliance
	High	1.698	0.272	0.4	Compliance
Note: Dwell time=Pulse time (ms) × (1600/4/79) × 31.6 s					
3DH5	Low	2.960	0.316	0.4	Compliance
	Middle	2.960	0.316	0.4	Compliance
	High	2.960	0.316	0.4	Compliance
Note: Dwell time=Pulse time (ms) × (1600/6/79) × 31.6 s					

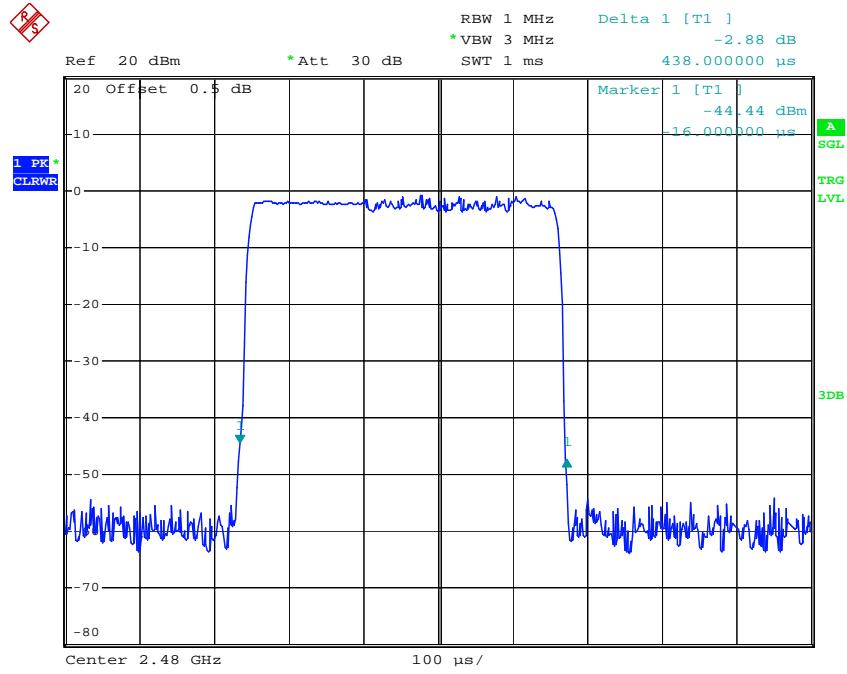
3DH1: Low Channel



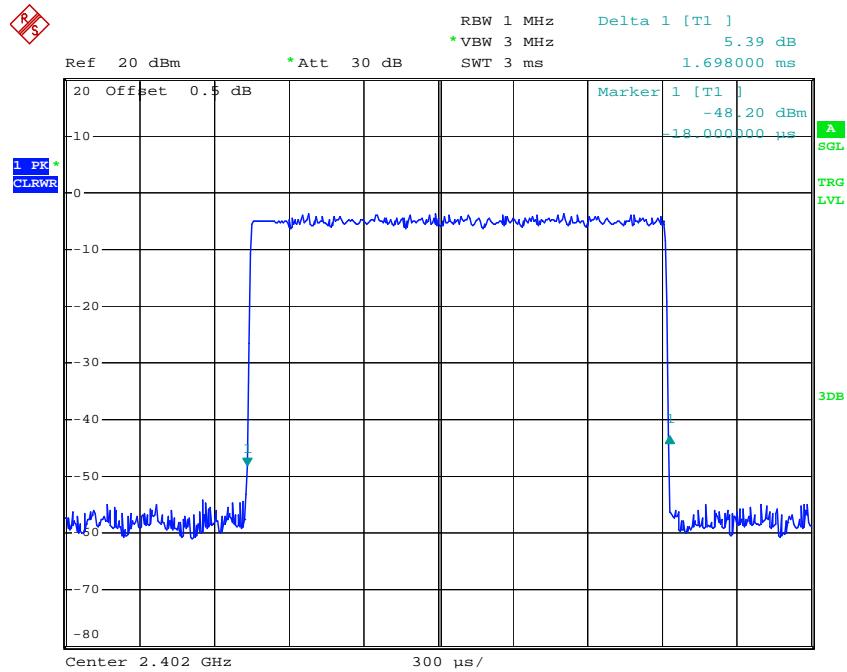
Date: 16.DEC.2018 12:39:02

3DH1: Middle Channel

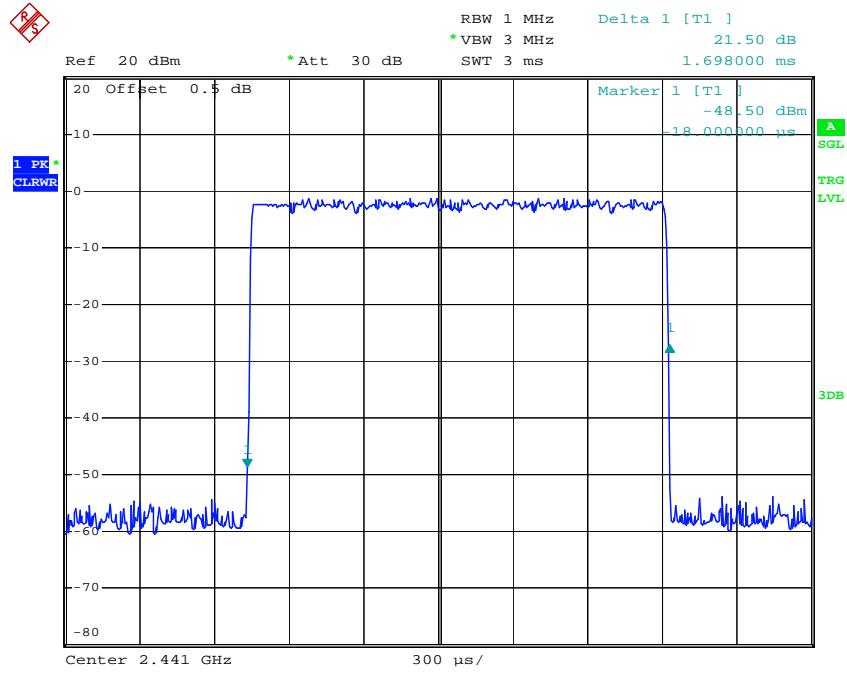
Date: 16.DEC.2018 12:39:07

3DH1: High Channel

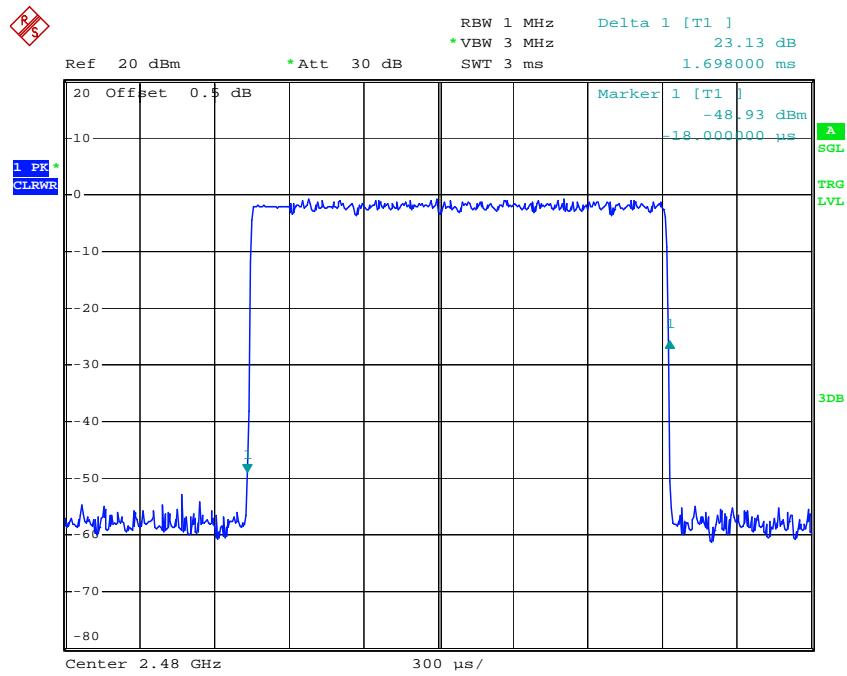
Date: 16.DEC.2018 12:39:12

3DH3: Low Channel

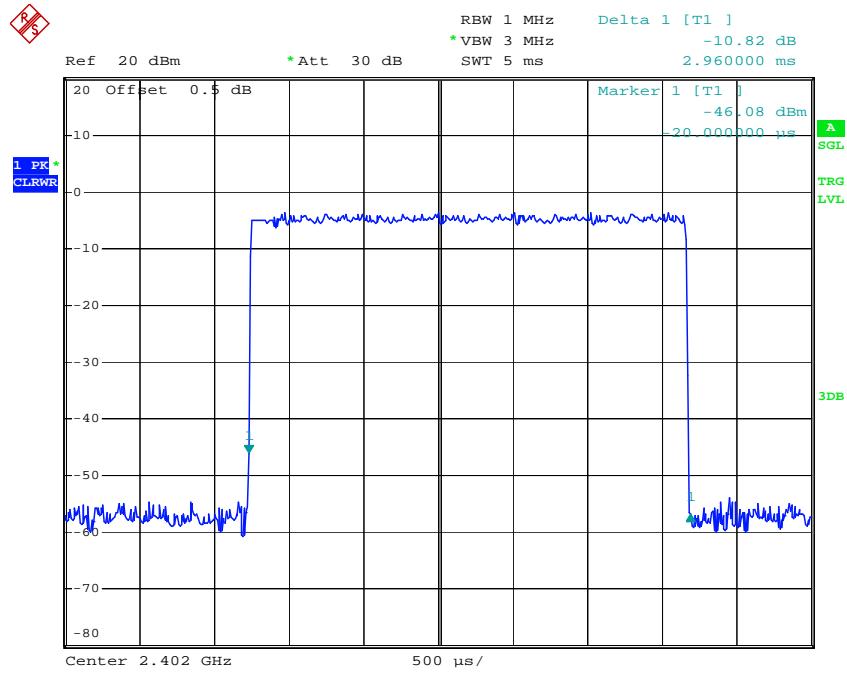
Date: 16.DEC.2018 12:39:40

3DH3: Middle Channel

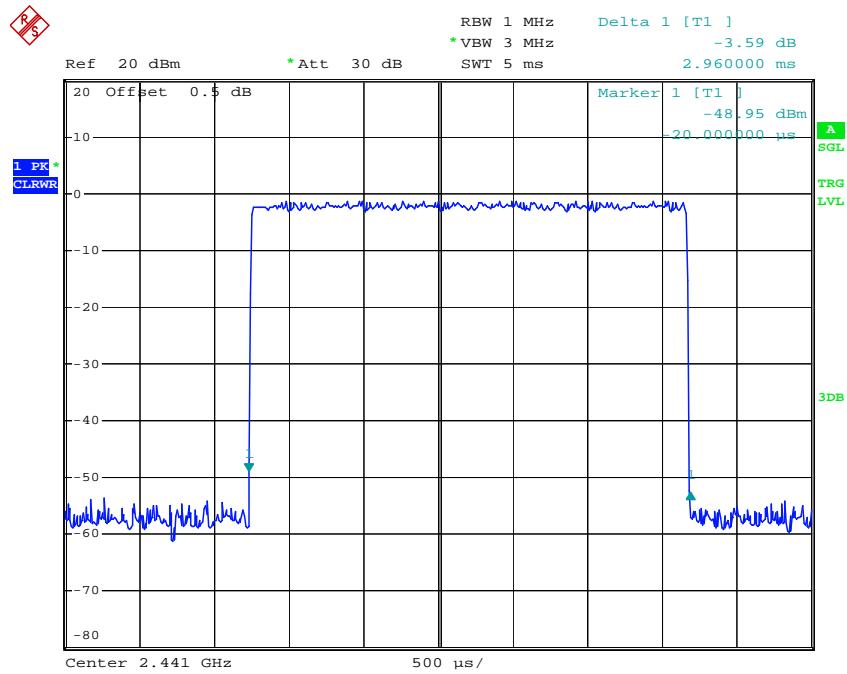
Date: 16.DEC.2018 12:40:14

3DH3: High Channel

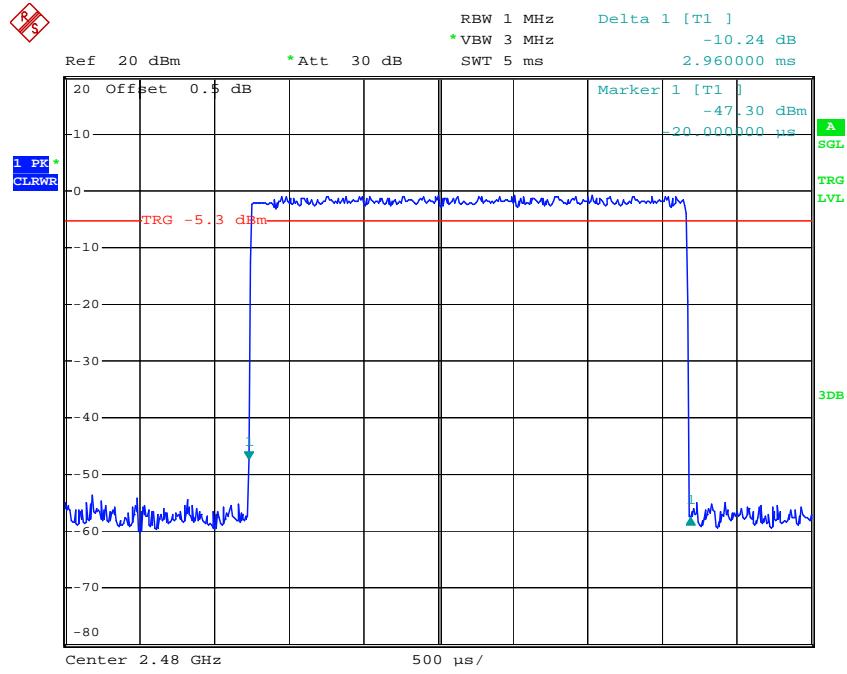
Date: 16.DEC.2018 12:40:40

3DH5: Low Channel

Date: 16.DEC.2018 12:41:05

3DH5: Middle Channel

Date: 16.DEC.2018 12:41:10

3DH5: High Channel

Date: 16.DEC.2018 12:42:12

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
Agilent	USB Wideband Power Sensor	U2022XA	MY5417006	2018-12-10	2019-12-10
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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 Data

Environmental Conditions

Temperature:	27 °C
Relative Humidity:	54 %
ATM Pressure:	100.6 kPa

* The testing was performed by Harry Yang on 2018-12-16.

Test Result: Compliance.

Test Mode: Transmitting

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	-1.21	21
	2441	0.89	21
	2480	1.23	21
EDR Mode ($\pi/4$ -DQPSK)	2402	-3.38	21
	2441	-0.91	21
	2480	-0.57	21
EDR Mode (8DPSK)	2402	-2.77	21
	2441	-0.45	21
	2480	-0.11	21

Note: The data above was tested in conducted mode.

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	FSU 26	200256	2018-01-04	2019-01-04
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	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 Data

Environmental Conditions

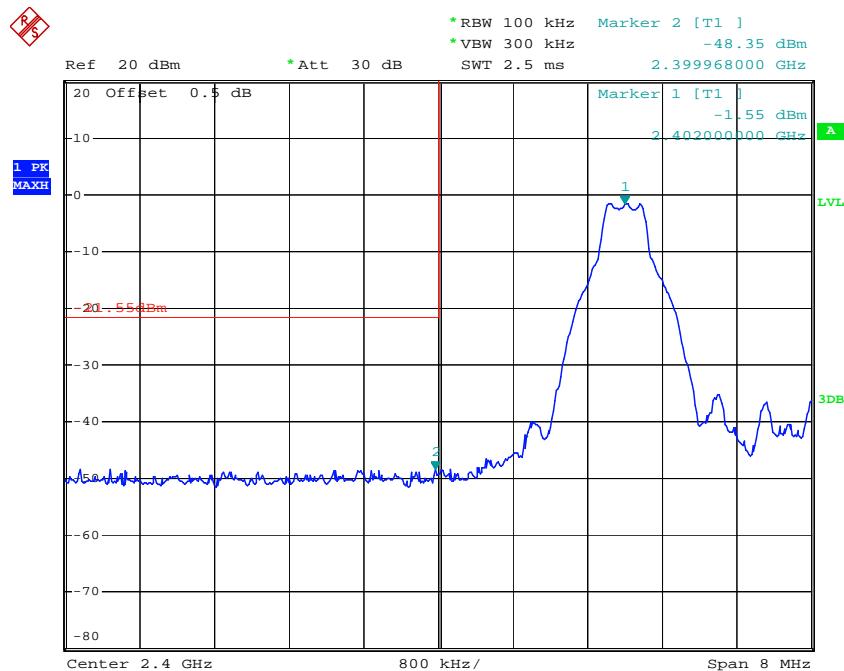
Temperature:	27 °C
Relative Humidity:	54 %
ATM Pressure:	100.6 kPa

* The testing was performed by Harry Yang on 2018-12-16.

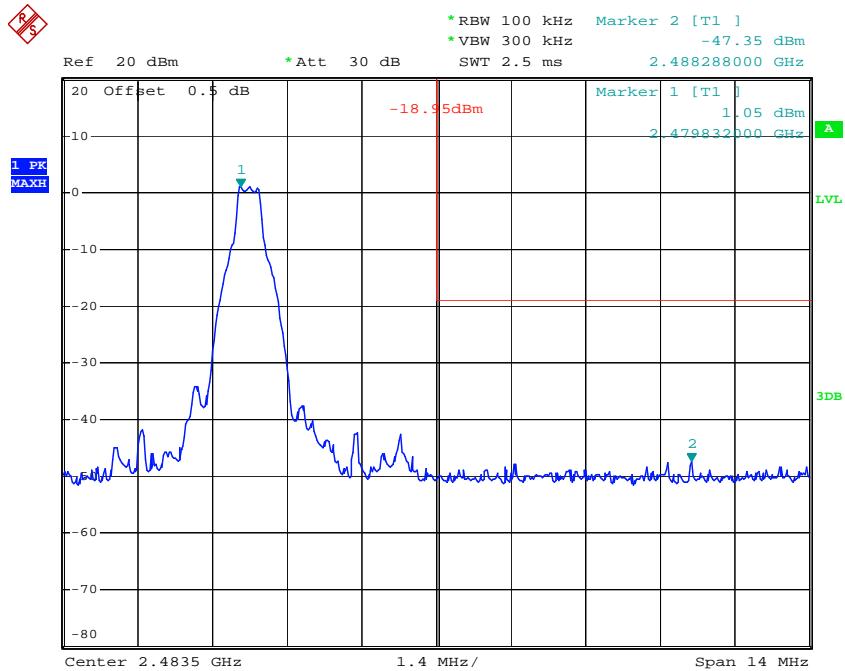
Test Result: Compliance

Single mode:
BDR Mode (GFSK):

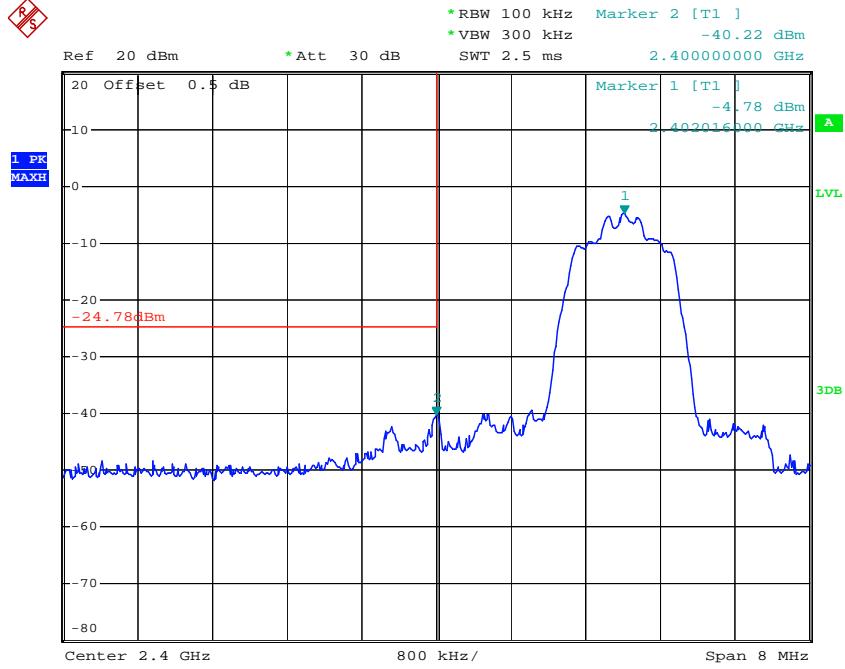
Band Edge, Left Side



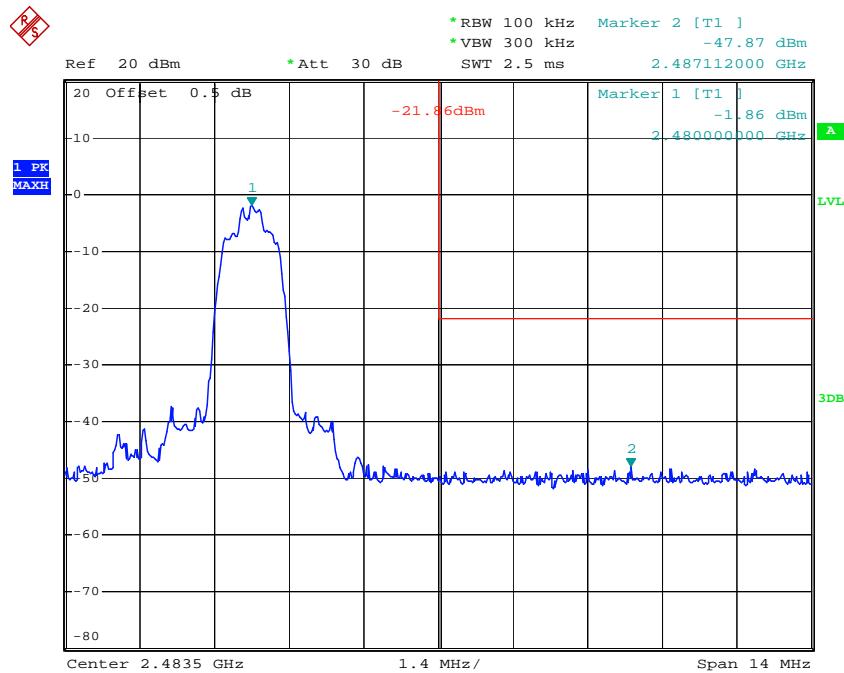
Date: 16.DEC.2018 11:24:36

Band Edge, Right Side

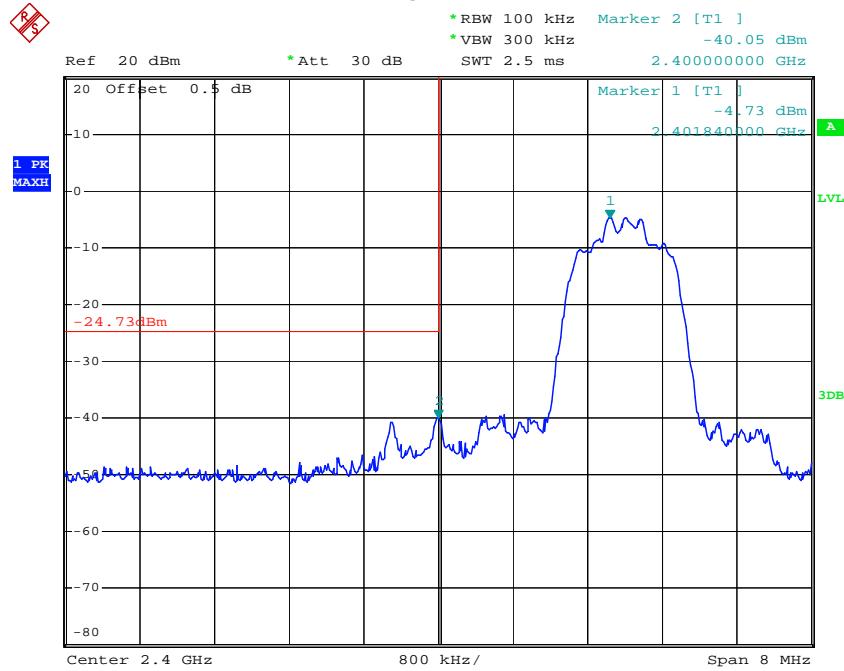
Date: 16.DEC.2018 11:28:41

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

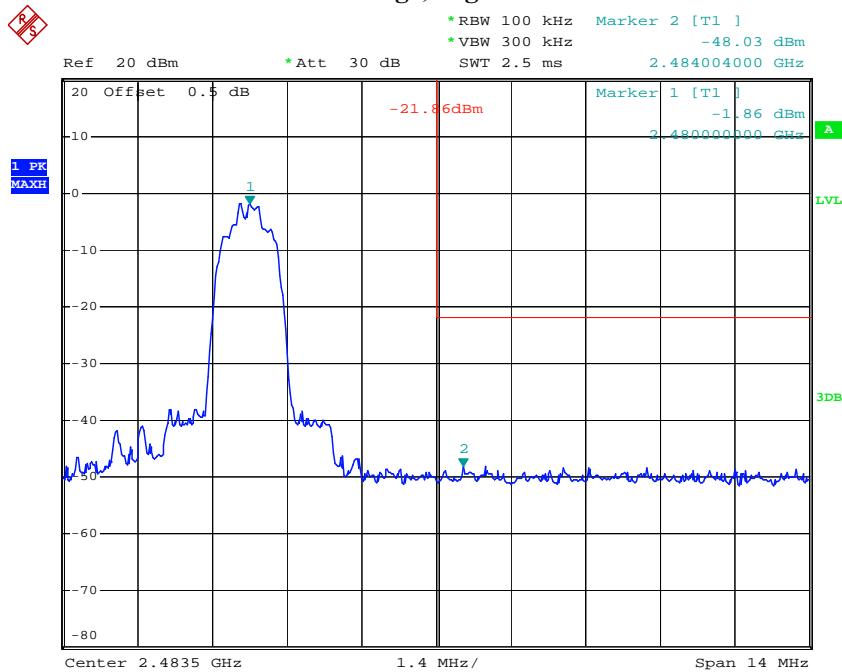
Date: 16.DEC.2018 11:42:19

Band Edge, Right Side

Date: 16.DEC.2018 11:38:49

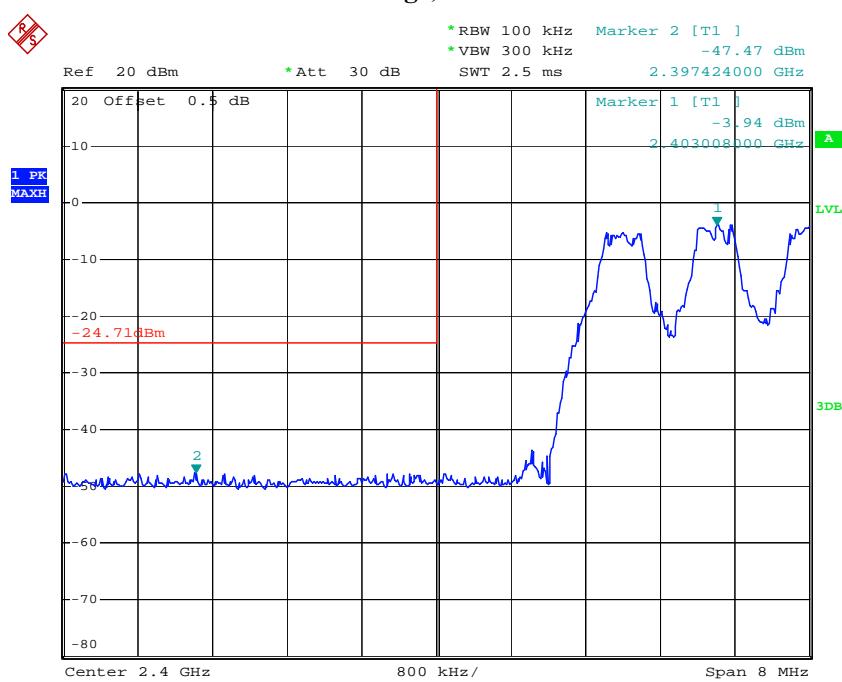
EDR Mode (8DPSK):**Band Edge, Left Side**

Date: 16.DEC.2018 11:45:45

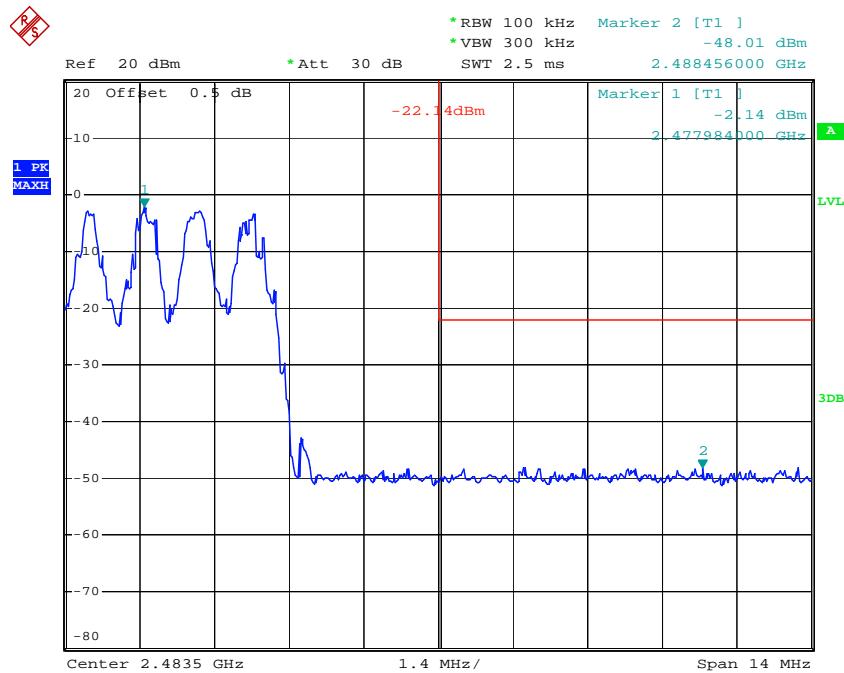
Band Edge, Right Side

Date: 16.DEC.2018 11:48:06

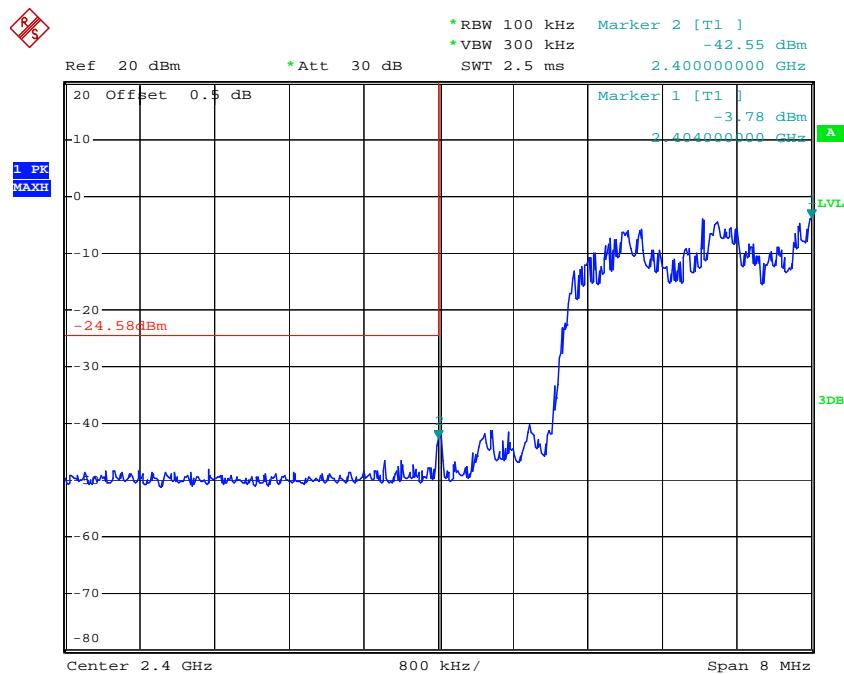
*Hopping mode: (All emissions of band edge are at 20dB below the fundamental)
 BDR Mode (GFSK):*

Band Edge, Left Side

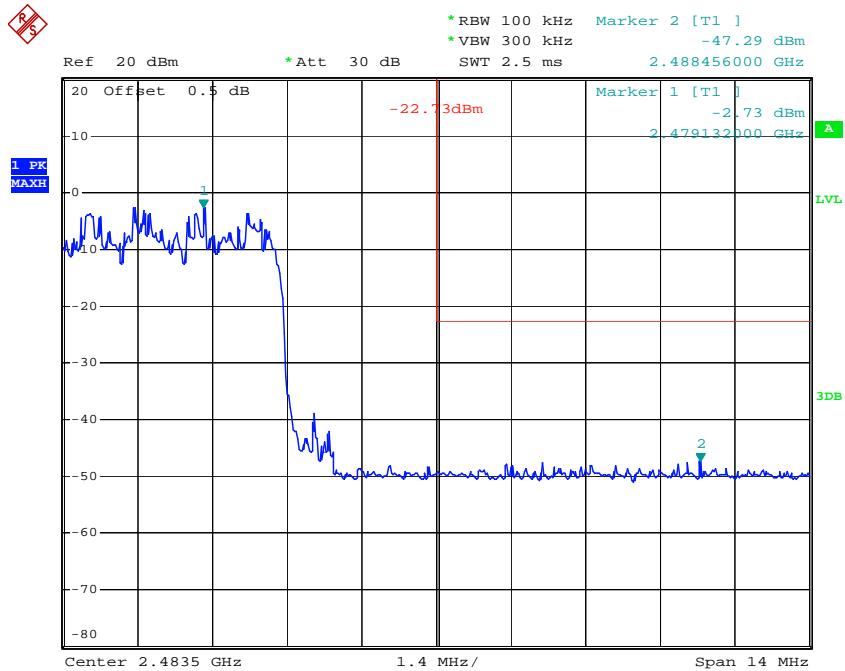
Date: 16.DEC.2018 12:51:14

Band Edge, Right Side

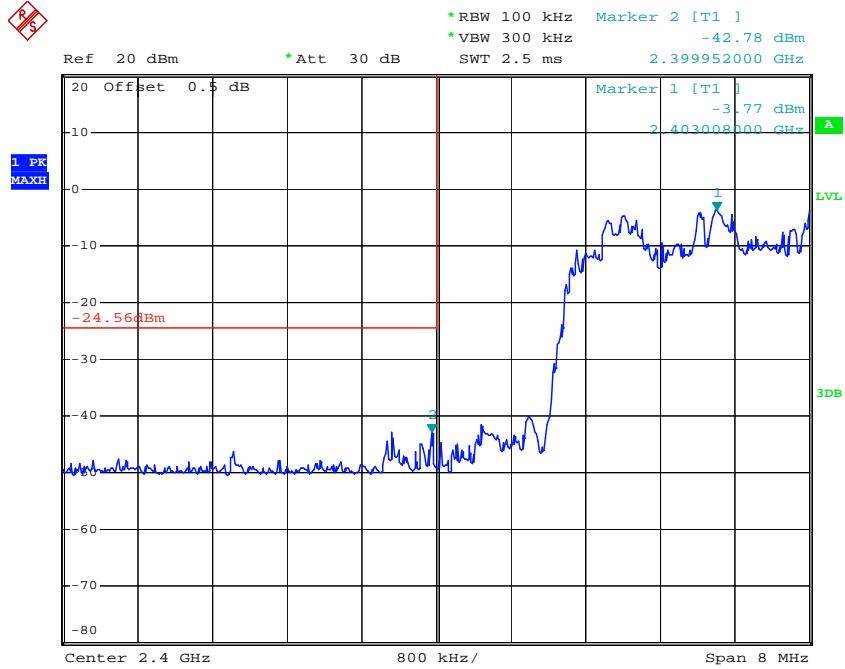
Date: 16.DEC.2018 12:51:56

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

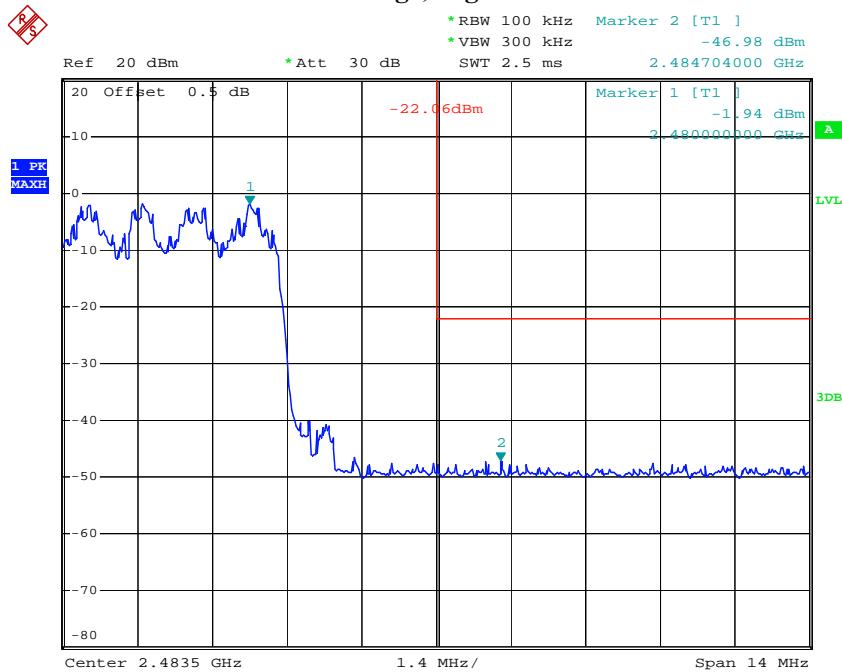
Date: 16.DEC.2018 12:54:13

Band Edge, Right Side

Date: 16.DEC.2018 12:53:16

EDR Mode (8DPSK):**Band Edge, Left Side**

Date: 16.DEC.2018 12:56:25

Band Edge, Right Side

Date: 16.DEC.2018 12:59:36

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