



TESTING LABORATORY
CERTIFICATE #4820.01



FCC PART 15.247 TEST REPORT

For

TekConnec Inc

39H, LA ROSSA A, 12 TUNG CHUNG WATERFRONT ROAD TUNG CHUNG, LANTAU,
NT Hong Kong

FCC ID: 2AMVHAA777S

Report Type: Original Report	Product Name: INFERNO
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Report Date: 2018-04-05	
Jerry Zhang	
Reviewed By:	EMC Manager <i>Jerry Zhang</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	

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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	5
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	6
SUPPORT CABLE LIST AND DETAILS	6
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE.....	8
APPLICABLE STANDARD	8
FCC §15.203 - ANTENNA REQUIREMENT.....	9
APPLICABLE STANDARD	9
ANTENNA CONNECTOR CONSTRUCTION	9
FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS	10
APPLICABLE STANDARD	10
EUT SETUP	10
EMI TEST RECEIVER SETUP.....	10
TEST PROCEDURE	10
CORRECTED AMPLITUDE & MARGIN CALCULATION	11
TEST EQUIPMENT LIST AND DETAILS.....	11
TEST DATA	11
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	14
APPLICABLE STANDARD	14
EUT SETUP	14
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	15
TEST PROCEDURE	15
TEST EQUIPMENT LIST AND DETAILS.....	15
CORRECTED AMPLITUDE & MARGIN CALCULATION	16
TEST DATA	16
FCC §15.247(a) (1) - CHANNEL SEPARATION TEST	24
APPLICABLE STANDARD	24
TEST EQUIPMENT LIST AND DETAILS.....	24
TEST PROCEDURE	24
TEST DATA	24
FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING	30
APPLICABLE STANDARD	30
TEST PROCEDURE	30
TEST EQUIPMENT LIST AND DETAILS.....	30
TEST DATA	30

FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST	36
APPLICABLE STANDARD	36
TEST PROCEDURE	36
TEST EQUIPMENT LIST AND DETAILS.....	36
TEST DATA	36
FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME).....	40
APPLICABLE STANDARD	40
TEST PROCEDURE	40
TEST EQUIPMENT LIST AND DETAILS.....	40
TEST DATA	40
FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT	56
APPLICABLE STANDARD	56
TEST PROCEDURE	56
TEST EQUIPMENT LIST AND DETAILS.....	56
TEST DATA	56
FCC §15.247(d) - BAND EDGES TESTING	58
APPLICABLE STANDARD	58
TEST PROCEDURE	58
TEST EQUIPMENT LIST AND DETAILS.....	58
TEST DATA	59

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:		INFERNO
EUT Model:		AA777S
FCC ID:		2AMVHAA777S
Rated Input Voltage:		DC3.8V from Battery or DC5V from adapter
Adapter Information	Model Name:	AA777S
	Input:	AC 100-240V, 50/60Hz 150mA
	Output:	DC5V, 1000mA
External Dimension:		Length (143mm)*Width (72 mm)*High (9.3 mm)
Serial Number:		180326004
EUT Received Date:		2018.03.26

Objective

This report is prepared on behalf of *TekConnec Inc* 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: 2AMVHAA777S.
FCC Part 22H, 24E Part 27 PCE submissions with FCC ID: 2AMVHAA777S.
FCC Part 15B JBP submissions with FCC ID: 2AMVHAA777S.

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	±5 %
RF output power, conducted	±0.61dB
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	±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 test site has been approved by the FCC 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 test site has been 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.

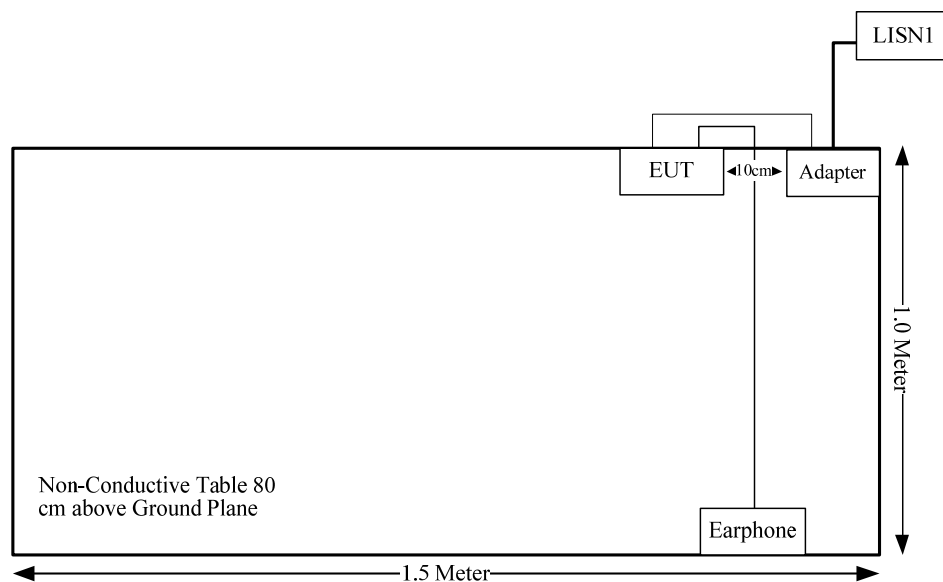
Equipment Modifications

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	1.0	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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ 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 7.0 dBm (5.01 mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 5.01/5 \cdot (\sqrt{2.480}) = 1.6 < 3.0$

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 -1.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

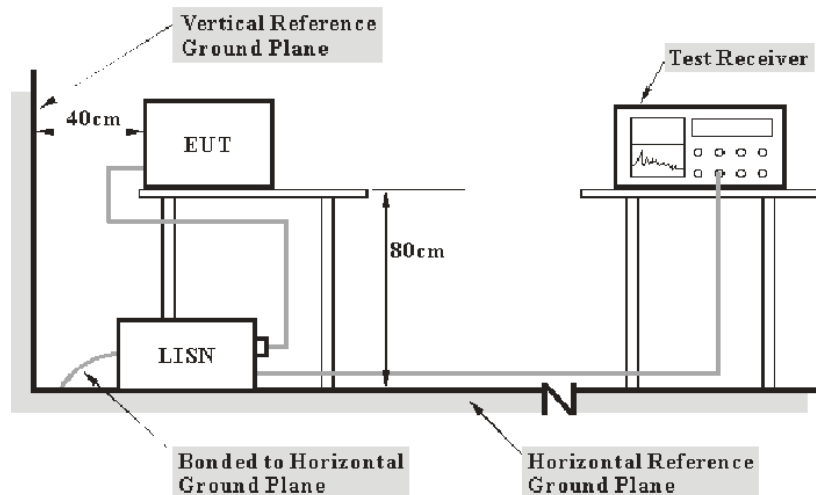
Result: Compliance.

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 (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	2017-12-11	2018-12-11
R&S	L.I.S.N	ESH2-Z5	892107/021	2017-09-25	2018-09-25
R&S	Two-line V-network	ENV 216	101614	2017-12-08	2018-12-08
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
N/A	Coaxial Cable	C-NJNJ-50	C-0200-01	2017-09-05	2018-09-05

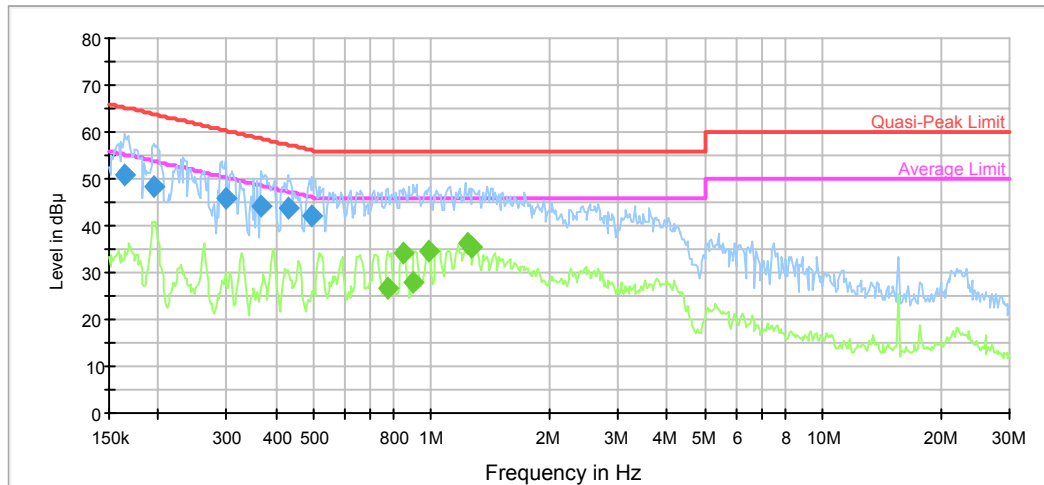
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

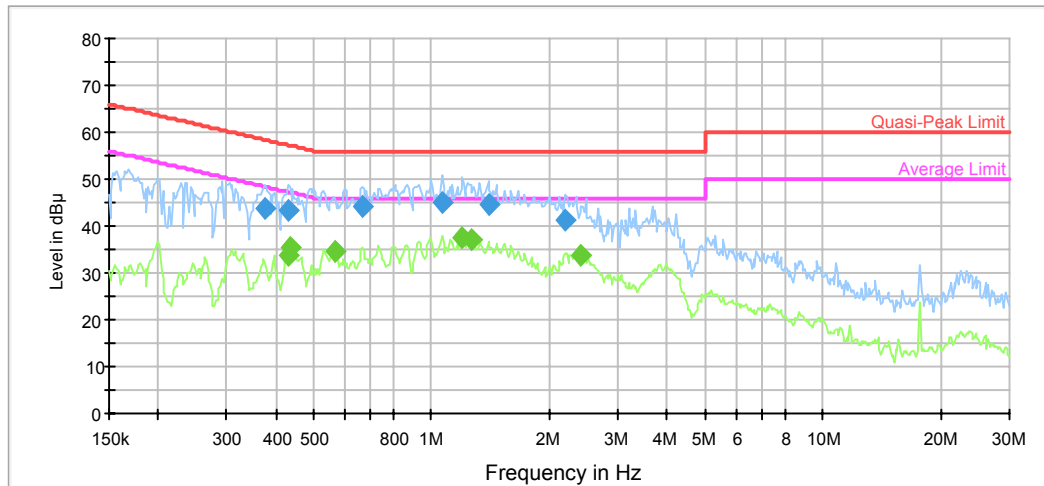
Temperature:	25.1 °C
Relative Humidity:	40 %
ATM Pressure:	101.4 kPa

The testing was performed by Jim Zhang on 2018-03-26.

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

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.165051	50.9	9.000	L1	11.0	14.3	65.2	Compliance
0.195114	48.3	9.000	L1	10.7	15.5	63.8	Compliance
0.297644	45.8	9.000	L1	10.2	14.5	60.3	Compliance
0.366160	44.0	9.000	L1	10.0	14.6	58.6	Compliance
0.429420	43.9	9.000	L1	9.9	13.4	57.3	Compliance
0.495646	42.1	9.000	L1	9.9	14.0	56.1	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.774393	26.6	9.000	L1	9.8	19.4	46.0	Compliance
0.852094	34.1	9.000	L1	9.8	11.9	46.0	Compliance
0.900972	27.8	9.000	L1	9.8	18.2	46.0	Compliance
0.983506	34.5	9.000	L1	9.8	11.5	46.0	Compliance
1.239175	36.4	9.000	L1	9.8	9.6	46.0	Compliance
1.259081	35.5	9.000	L1	9.8	10.5	46.0	Compliance

AC120V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.375019	43.7	9.000	N	10.0	14.7	58.4	Compliance
0.429420	43.2	9.000	N	9.9	14.1	57.3	Compliance
0.665597	44.3	9.000	N	9.8	11.7	56.0	Compliance
1.065081	45.1	9.000	N	9.8	10.9	56.0	Compliance
1.396499	44.5	9.000	N	9.7	11.5	56.0	Compliance
2.199332	41.3	9.000	N	9.8	14.7	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.429420	33.8	9.000	N	9.9	13.5	47.3	Compliance
0.436318	35.3	9.000	N	9.9	11.8	47.1	Compliance
0.567545	34.8	9.000	N	9.8	11.2	46.0	Compliance
1.200302	37.6	9.000	N	9.8	8.4	46.0	Compliance
1.259081	37.0	9.000	N	9.8	9.0	46.0	Compliance
2.400804	33.7	9.000	N	9.8	12.3	46.0	Compliance

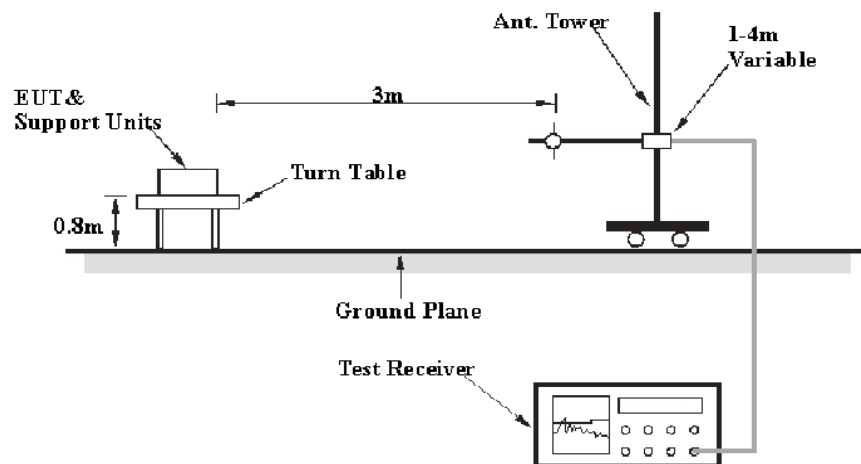
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

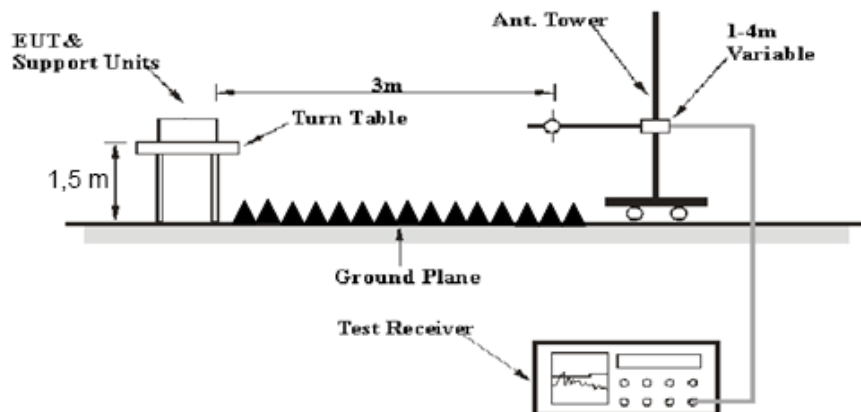
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission Below 1GHz tests were performed in the 3 meters chamber test site A, above 1GHz tests were performed in the 3 meters chamber test site B, 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	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
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
R&S	EMI Test Receiver	ESCI	100224	2017-12-11	2018-12-11
HP	Amplifier	8447D	2727A05902	2017-09-05	2018-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2017-12-08	2018-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
MITEQ	Amplifier	AFS42-00101800-25-S-42	2001271	2017-09-05	2018-09-05
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2016-11-18	2019-11-18
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2017-06-27	2018-06-27
Chengdu Ouli	Band Rejection Filter	2400-2483.5	002	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0400-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-0075-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-NJNJ-50	C-1000-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-SJSJ-50	C-0800-01	2017-09-05	2018-09-05
N/A	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2017-06-27	2018-06-27
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

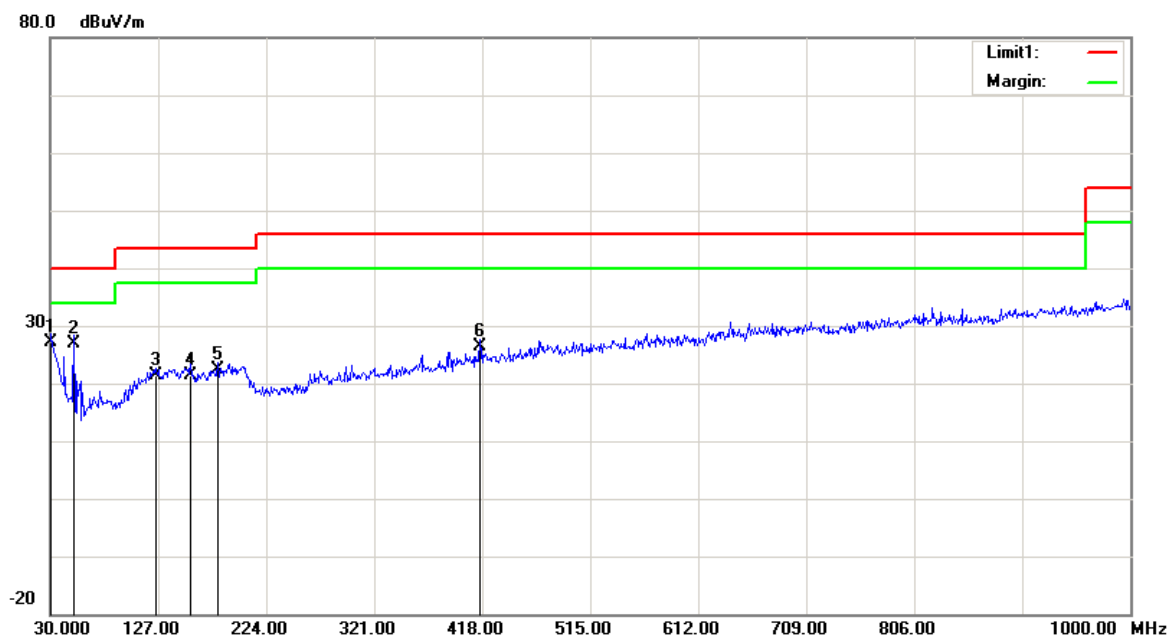
Temperature:	25.1 °C
Relative Humidity:	44 %
ATM Pressure:	101.1 kPa

** The testing was performed by Sunny Cen on 2018-03-30.*

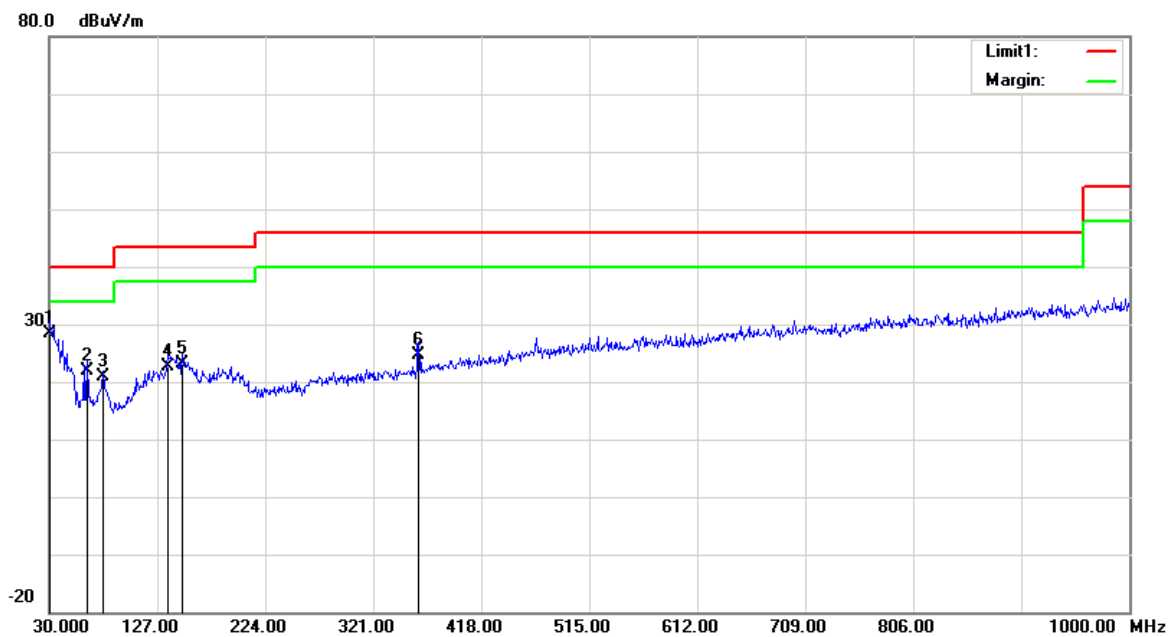
Test Mode: Transmitting

1) 30MHz-1GHz(GFSK Low channel was the worst)

Horizontal:



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.9700	26.39	QP	0.81	27.20	40.00	12.80
51.3400	38.44	QP	-11.64	26.80	40.00	13.20
125.0600	26.17	QP	-4.77	21.40	43.50	22.10
156.1000	27.34	QP	-5.94	21.40	43.50	22.10
180.3500	29.97	QP	-7.47	22.50	43.50	21.00
416.0600	28.02	QP	-1.72	26.30	46.00	19.70

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)
30.0000	26.76	QP	1.54	28.30	40.00	11.70
63.9500	33.69	QP	-11.89	21.80	40.00	18.20
78.5000	32.11	QP	-11.31	20.80	40.00	19.20
136.7000	28.09	QP	-5.39	22.70	43.50	20.80
149.3100	29.09	QP	-5.99	23.10	43.50	20.40
361.7400	27.52	QP	-2.82	24.70	46.00	21.30

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/m)					
Low Channel: 2402 MHz									
2402.00	66.19	PK	H	28.10	1.80	0.00	96.09	N/A	N/A
2402.00	54.82	AV	H	28.10	1.80	0.00	84.72	N/A	N/A
2402.00	61.04	PK	V	28.10	1.80	0.00	90.94	N/A	N/A
2402.00	50.02	AV	V	28.10	1.80	0.00	79.92	N/A	N/A
2390.00	23.88	PK	H	28.08	1.80	0.00	53.76	74.00	20.24
2390.00	13.98	AV	H	28.08	1.80	0.00	43.86	54.00	10.14
4804.00	47.75	PK	H	32.91	3.17	37.20	46.63	74.00	27.37
4804.00	36.66	AV	H	32.91	3.17	37.20	35.54	54.00	18.46
7206.00	46.22	PK	H	35.74	4.82	37.23	49.55	74.00	24.45
7206.00	35.47	AV	H	35.74	4.82	37.23	38.80	54.00	15.20
Middle Channel: 2441 MHz									
2441.00	67.13	PK	H	28.18	1.82	0.00	97.13	N/A	N/A
2441.00	55.13	AV	H	28.18	1.82	0.00	85.13	N/A	N/A
2441.00	61.54	PK	V	28.18	1.82	0.00	91.54	N/A	N/A
2441.00	50.41	AV	V	28.18	1.82	0.00	80.41	N/A	N/A
4882.00	49.18	PK	H	33.06	3.27	37.21	48.30	74.00	25.70
4882.00	37.43	AV	H	33.06	3.27	37.21	36.55	54.00	17.45
7323.00	47.79	PK	H	36.04	4.62	37.38	51.07	74.00	22.93
7323.00	38.02	AV	H	36.04	4.62	37.38	41.30	54.00	12.70
High Channel: 2480 MHz									
2480.00	66.11	PK	H	28.26	1.84	0.00	96.21	N/A	N/A
2480.00	56.37	AV	H	28.26	1.84	0.00	86.47	N/A	N/A
2480.00	62.11	PK	V	28.26	1.84	0.00	92.21	N/A	N/A
2480.00	50.64	AV	V	28.26	1.84	0.00	80.74	N/A	N/A
2483.50	25.53	PK	H	28.27	1.84	0.00	55.64	74.00	18.36
2483.50	15.53	AV	H	28.27	1.84	0.00	45.64	54.00	8.36
4960.00	48.13	PK	H	33.22	3.23	37.25	47.33	74.00	26.67
4960.00	37.98	AV	H	33.22	3.23	37.25	37.18	54.00	16.82
7440.00	47.44	PK	H	36.34	4.41	37.52	50.67	74.00	23.33
7440.00	37.17	AV	H	36.34	4.41	37.52	40.40	54.00	13.60

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

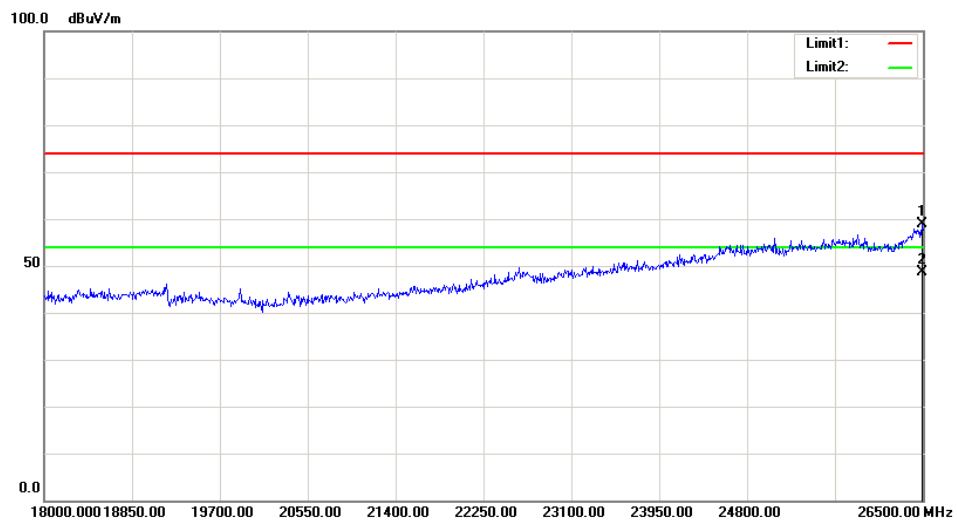
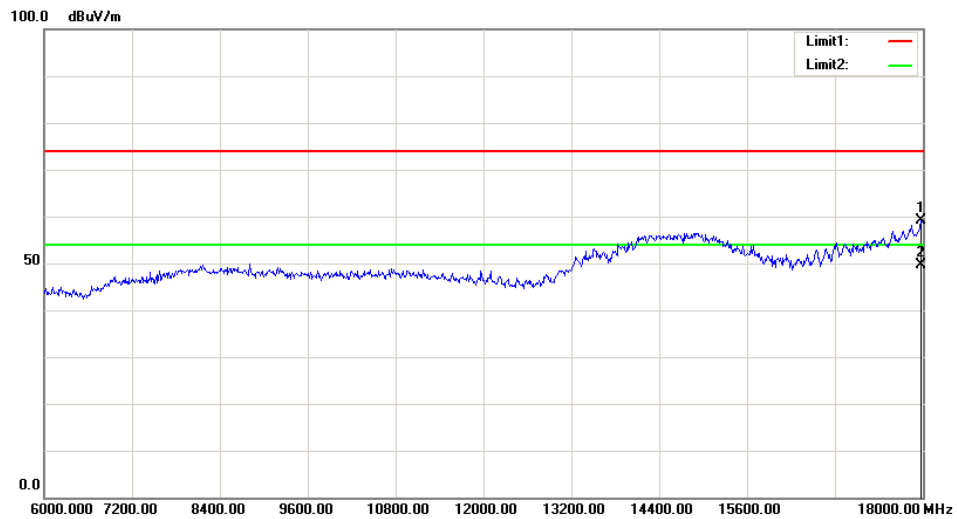
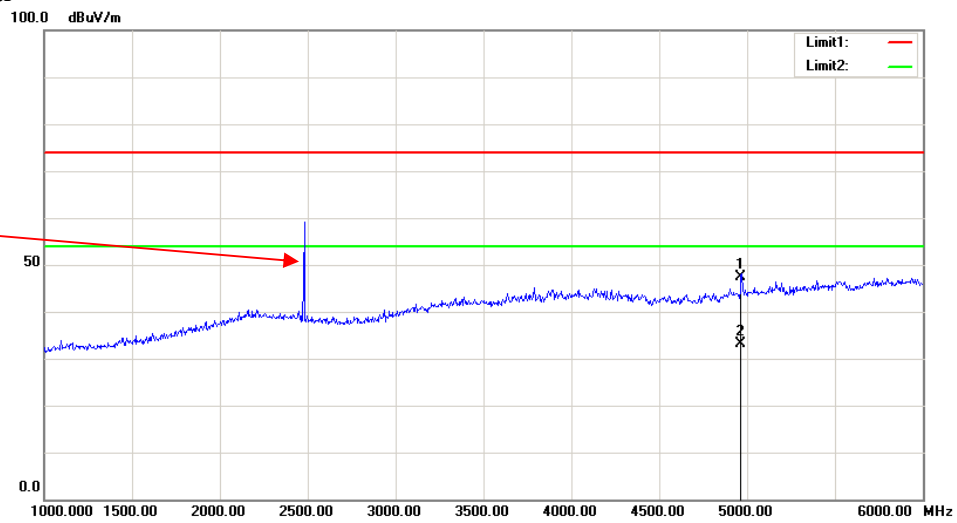
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	65.89	PK	H	28.10	1.80	0.00	95.79	N/A	N/A
2402.00	52.95	AV	H	28.10	1.80	0.00	82.85	N/A	N/A
2402.00	63.28	PK	V	28.10	1.80	0.00	93.18	N/A	N/A
2402.00	50.24	AV	V	28.10	1.80	0.00	80.14	N/A	N/A
2390.00	24.80	PK	H	28.08	1.80	0.00	54.68	74.00	19.32
2390.00	13.43	AV	H	28.08	1.80	0.00	43.31	54.00	10.69
4804.00	48.83	PK	H	32.91	3.17	37.20	47.71	74.00	26.29
4804.00	36.75	AV	H	32.91	3.17	37.20	35.63	54.00	18.37
7206.00	47.63	PK	H	35.74	4.82	37.23	50.96	74.00	23.04
7206.00	36.03	AV	H	35.74	4.82	37.23	39.36	54.00	14.64
Middle Channel: 2441 MHz									
2441.00	68.05	PK	H	28.18	1.82	0.00	98.05	N/A	N/A
2441.00	55.43	AV	H	28.18	1.82	0.00	85.43	N/A	N/A
2441.00	62.58	PK	V	28.18	1.82	0.00	92.58	N/A	N/A
2441.00	52.51	AV	V	28.18	1.82	0.00	82.51	N/A	N/A
4882.00	48.79	PK	H	33.06	3.27	37.21	47.91	74.00	26.09
4882.00	36.86	AV	H	33.06	3.27	37.21	35.98	54.00	18.02
7323.00	46.93	PK	H	36.04	4.62	37.38	50.21	74.00	23.79
7323.00	36.45	AV	H	36.04	4.62	37.38	39.73	54.00	14.27
High Channel: 2480 MHz									
2480.00	66.30	PK	H	28.26	1.84	0.00	96.40	N/A	N/A
2480.00	56.56	AV	H	28.26	1.84	0.00	86.66	N/A	N/A
2480.00	61.86	PK	V	28.26	1.84	0.00	91.96	N/A	N/A
2480.00	50.46	AV	V	28.26	1.84	0.00	80.56	N/A	N/A
2483.50	25.53	PK	H	28.27	1.84	0.00	55.64	74.00	18.36
2483.50	15.07	AV	H	28.27	1.84	0.00	45.18	54.00	8.82
4960.00	49.25	PK	H	33.22	3.23	37.25	48.45	74.00	25.55
4960.00	37.58	AV	H	33.22	3.23	37.25	36.78	54.00	17.22
7440.00	46.56	PK	H	36.34	4.41	37.52	49.79	74.00	24.21
7440.00	36.93	AV	H	36.34	4.41	37.52	40.16	54.00	13.84

EDR Mode (8-DPSK):

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/m)					
Low Channel: 2402 MHz									
2402.00	66.12	PK	H	28.10	1.80	0.00	96.02	N/A	N/A
2402.00	55.99	AV	H	28.10	1.80	0.00	85.89	N/A	N/A
2402.00	61.39	PK	V	28.10	1.80	0.00	91.29	N/A	N/A
2402.00	51.90	AV	V	28.10	1.80	0.00	81.80	N/A	N/A
2390.00	24.75	PK	H	28.08	1.80	0.00	54.63	74.00	19.37
2390.00	14.36	AV	H	28.08	1.80	0.00	44.24	54.00	9.76
4804.00	48.00	PK	H	32.91	3.17	37.20	46.88	74.00	27.12
4804.00	38.38	AV	H	32.91	3.17	37.20	37.26	54.00	16.74
7206.00	46.16	PK	H	35.74	4.82	37.23	49.49	74.00	24.51
7206.00	37.11	AV	H	35.74	4.82	37.23	40.44	54.00	13.56
Middle Channel: 2441 MHz									
2441.00	67.31	PK	H	28.18	1.82	0.00	97.31	N/A	N/A
2441.00	55.17	AV	H	28.18	1.82	0.00	85.17	N/A	N/A
2441.00	62.25	PK	V	28.18	1.82	0.00	92.25	N/A	N/A
2441.00	50.06	AV	V	28.18	1.82	0.00	80.06	N/A	N/A
4882.00	47.68	PK	H	33.06	3.27	37.21	46.80	74.00	27.20
4882.00	38.15	AV	H	33.06	3.27	37.21	37.27	54.00	16.73
7323.00	47.22	PK	H	36.04	4.62	37.38	50.50	74.00	23.50
7323.00	35.56	AV	H	36.04	4.62	37.38	38.84	54.00	15.16
High Channel: 2480 MHz									
2480.00	66.34	PK	H	28.26	1.84	0.00	96.44	N/A	N/A
2480.00	55.45	AV	H	28.26	1.84	0.00	85.55	N/A	N/A
2480.00	62.10	PK	V	28.26	1.84	0.00	92.20	N/A	N/A
2480.00	50.83	AV	V	28.26	1.84	0.00	80.93	N/A	N/A
2483.50	24.35	PK	H	28.27	1.84	0.00	54.46	74.00	19.54
2483.50	14.79	AV	H	28.27	1.84	0.00	44.90	54.00	9.10
4960.00	48.46	PK	H	33.22	3.23	37.25	47.66	74.00	26.34
4960.00	38.13	AV	H	33.22	3.23	37.25	37.33	54.00	16.67
7440.00	46.54	PK	H	36.34	4.41	37.52	49.77	74.00	24.23
7440.00	35.61	AV	H	36.34	4.41	37.52	38.84	54.00	15.16

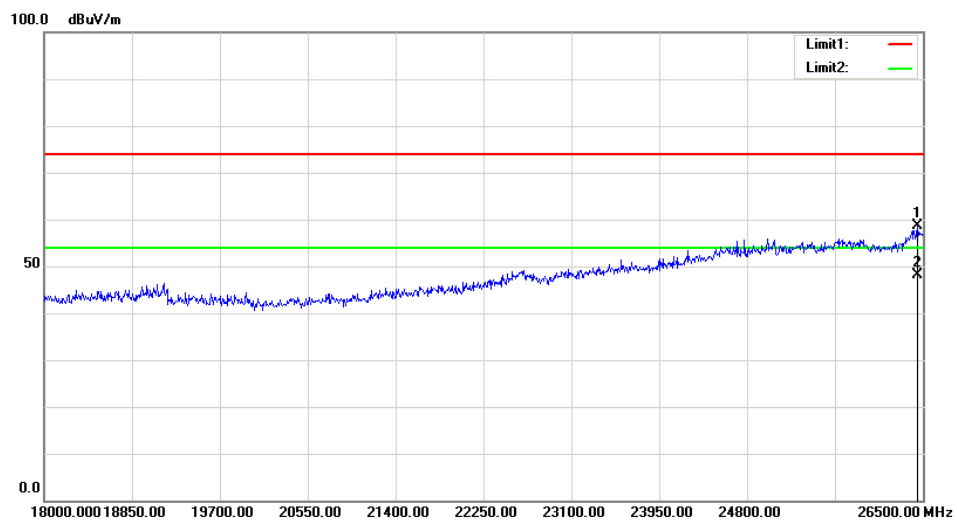
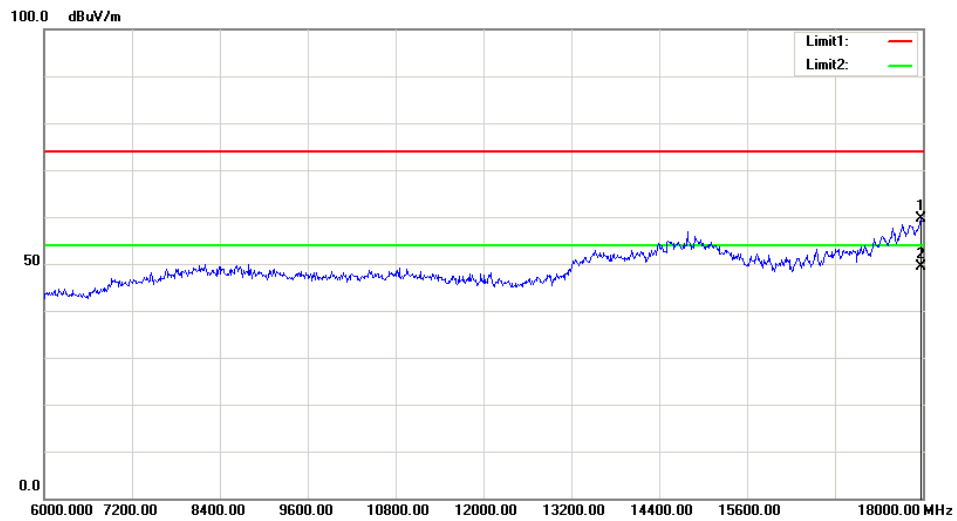
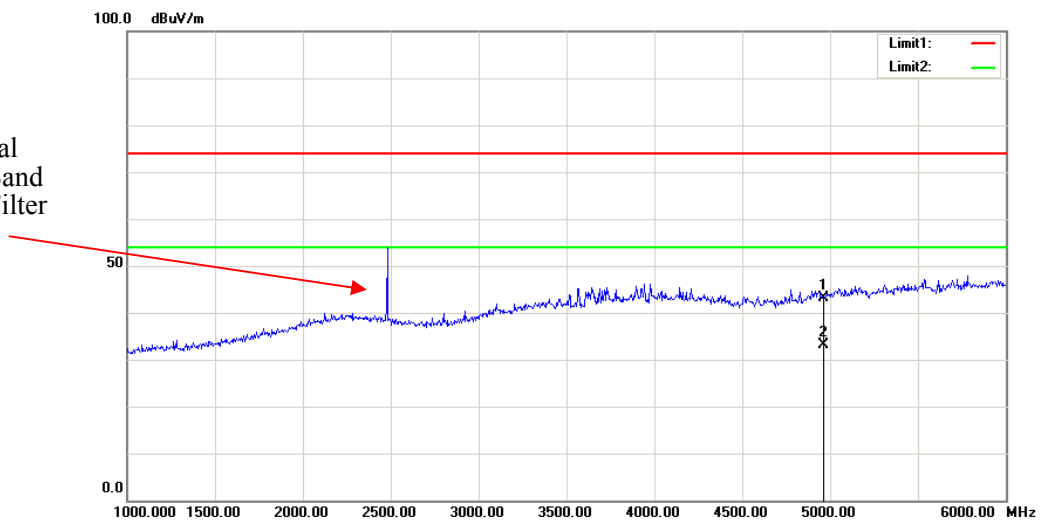
Worst plots (GFSK Middle channel) **Horizontal**

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
N/A	Coaxial Cable	C-SJ00-0010	C0010/02	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:	25.9 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

* The testing was performed by Nami Quan on 2018-03-29.

Test Result: Compliance.

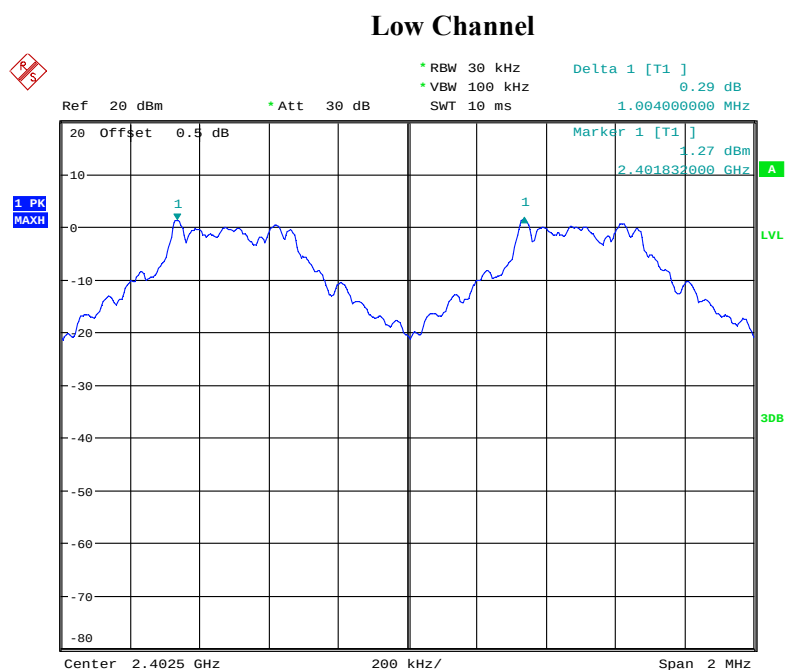
Please refer to following tables and plots

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
BDR (GFSK)	Low	2402	1.004	0.62
	Middle	2441	1.004	0.62
	High	2480	1.004	0.61
EDR ($\pi/4$ -DQPSK)	Low	2402	1.000	0.83
	Middle	2441	1.000	0.84
	High	2480	1.004	0.84
EDR (8-DPSK)	Low	2402	1.000	0.84
	Middle	2441	1.000	0.84
	High	2480	1.004	0.83

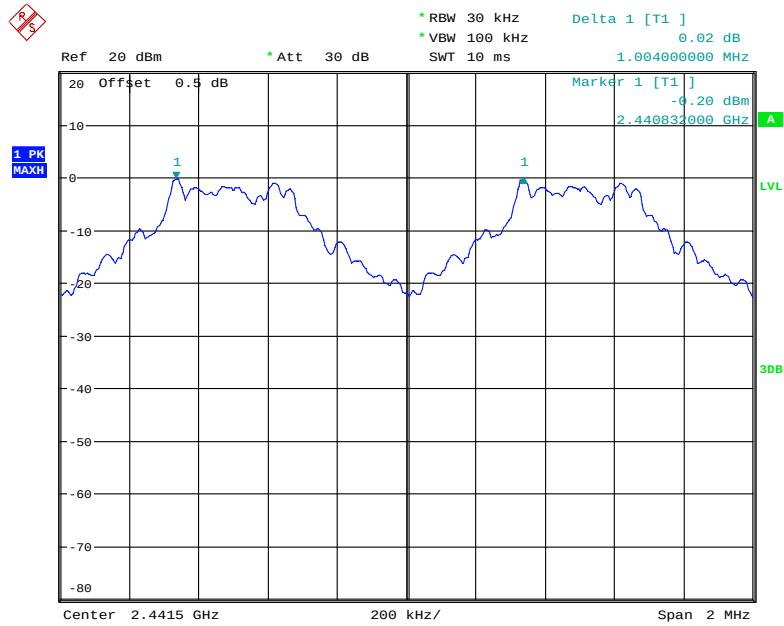
Note: Limit= $(2/3) \times 20\text{dB bandwidth}$

BDR Mode (GFSK):



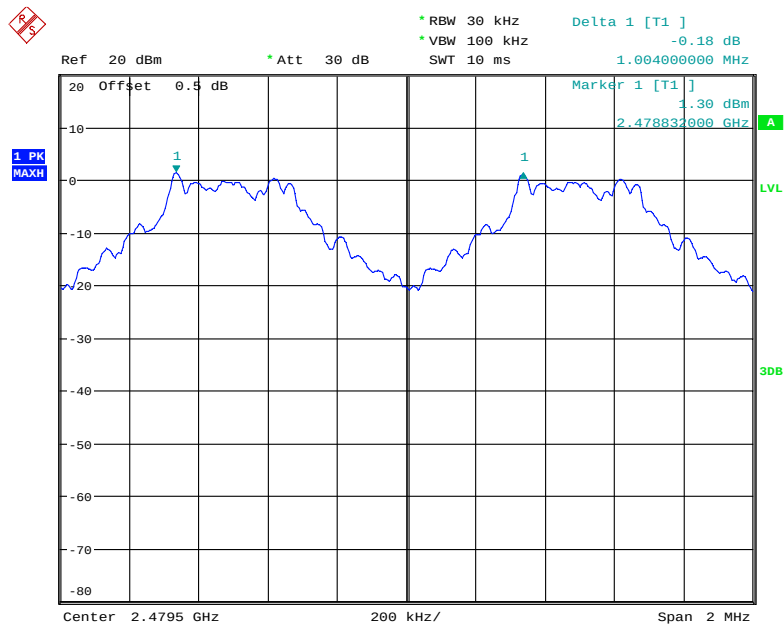
Date: 29.MAR.2018 10:18:07

Middle Channel



Date: 29.MAR.2018 10:18:55

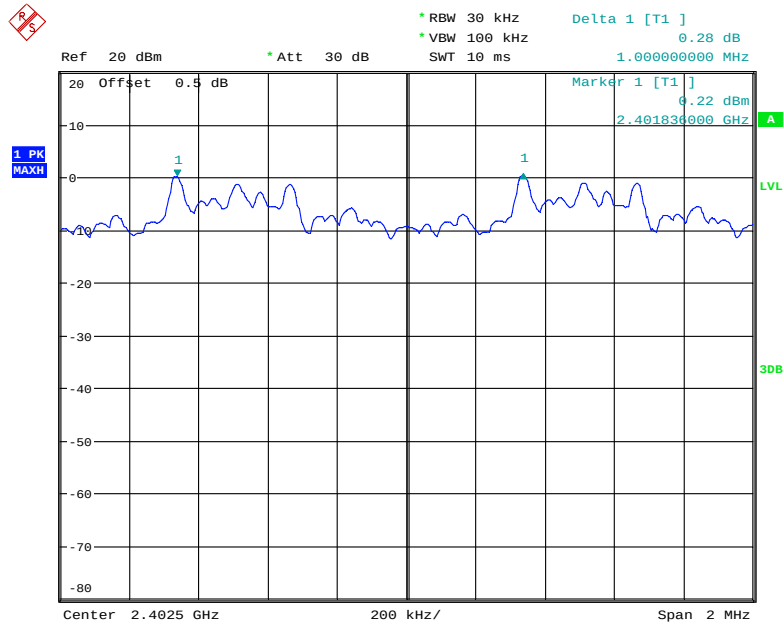
High Channel



Date: 29.MAR.2018 10:20:26

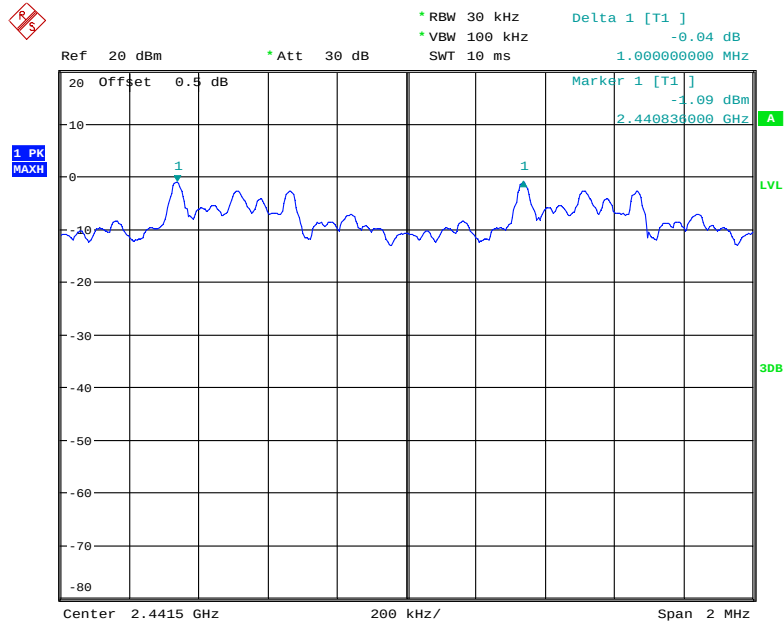
EDR Mode ($\pi/4$ -DQPSK):

Low Channel



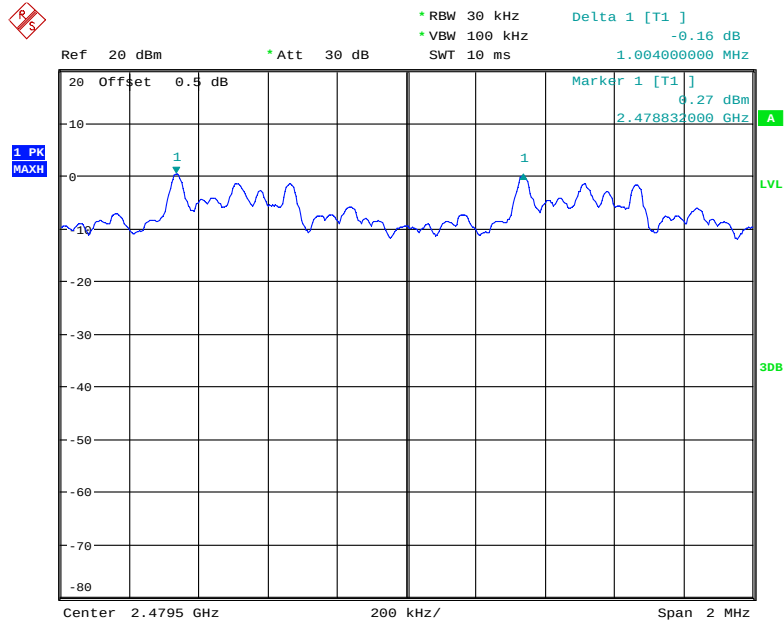
Date: 29.MAR.2018 10:17:11

Middle Channel



Date: 29.MAR.2018 10:16:29

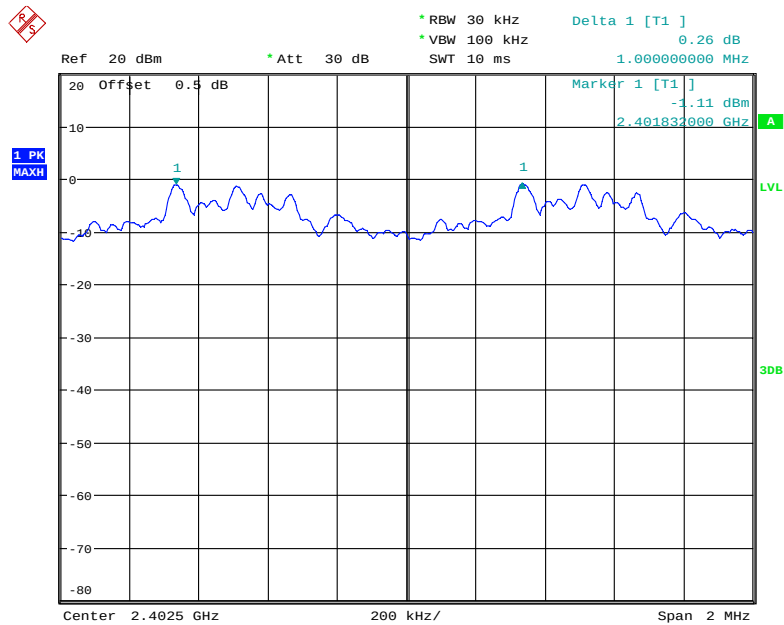
High Channel



Date: 29.MAR.2018 10:15:38

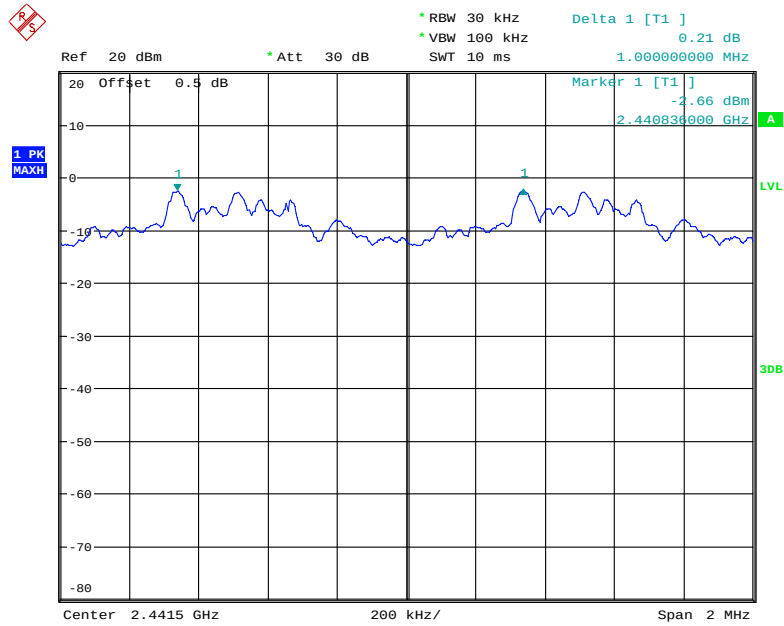
EDR Mode (8-DPSK):

Low Channel



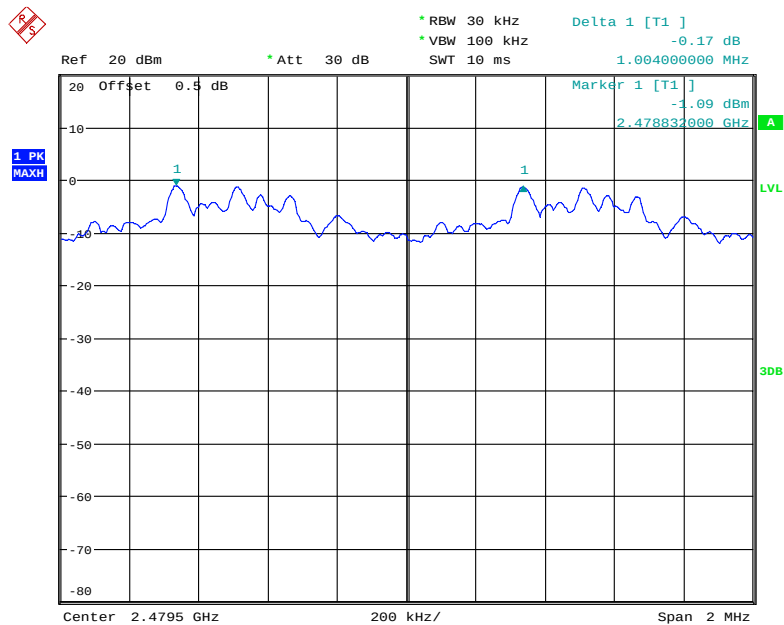
Date: 29.MAR.2018 10:13:03

Middle Channel



Date: 29.MAR.2018 10:13:43

High Channel



Date: 29.MAR.2018 10:14:37

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
N/A	Coaxial Cable	C-SJ00-0010	C0010/02	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:	26.1 °C
Relative Humidity:	52 %
ATM Pressure:	100.9 kPa

* The testing was performed by Nami Quan on 2018-03-28.

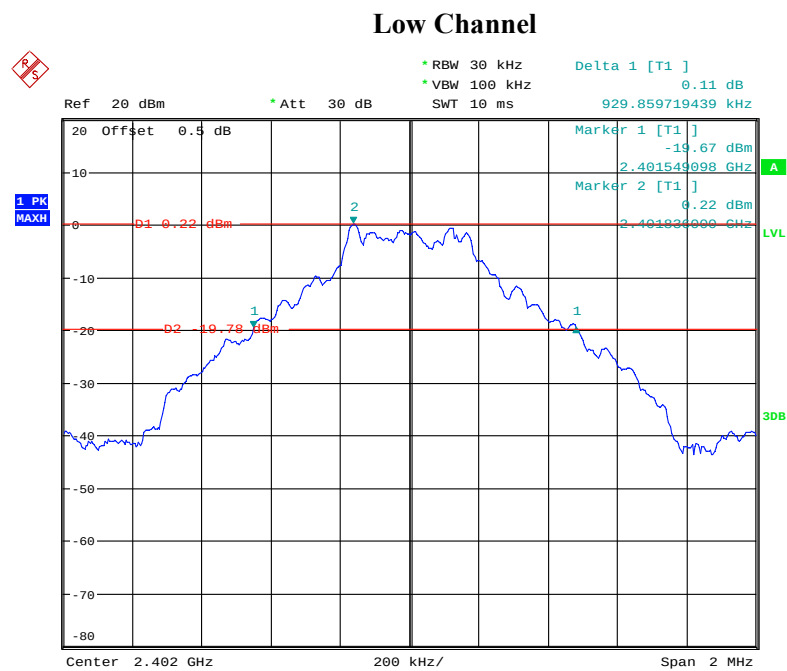
Test Result: Compliance.

Please refer to following tables and plots

Test Mode: Transmitting

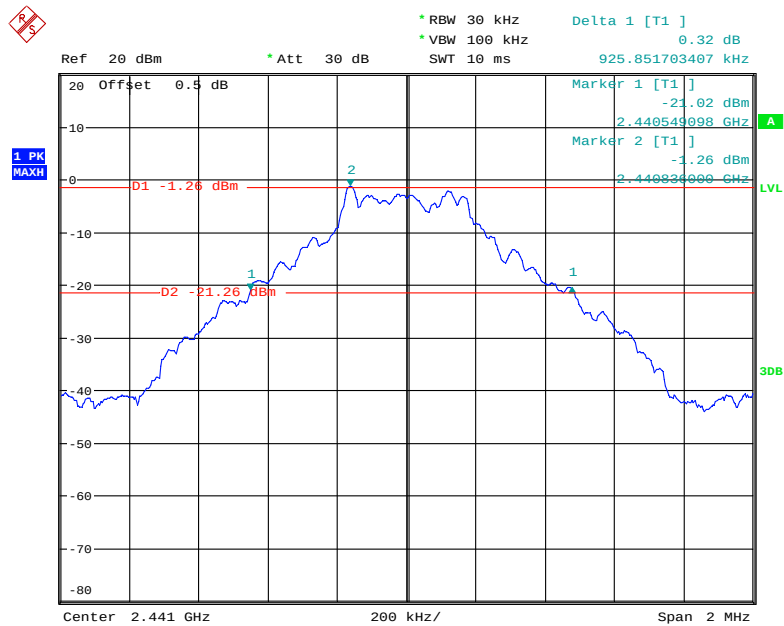
Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.93
	Middle	2441	0.93
	High	2480	0.92
EDR Mode ($\pi/4$ -DQPSK)	Low	2402	1.25
	Middle	2441	1.26
	High	2480	1.26
EDR Mode (8-DPSK)	Low	2402	1.26
	Middle	2441	1.26
	High	2480	1.25

BDR Mode (GFSK):



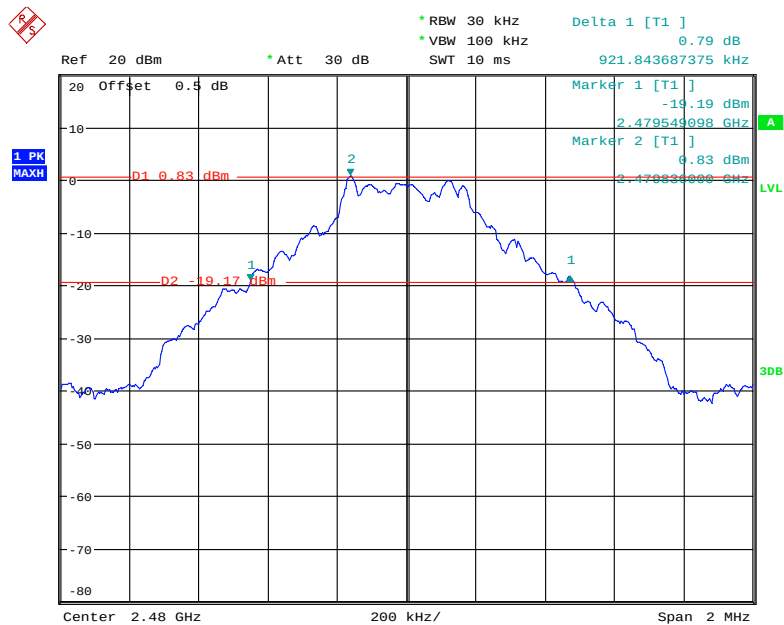
Date: 28.MAR.2018 16:38:47

Middle Channel

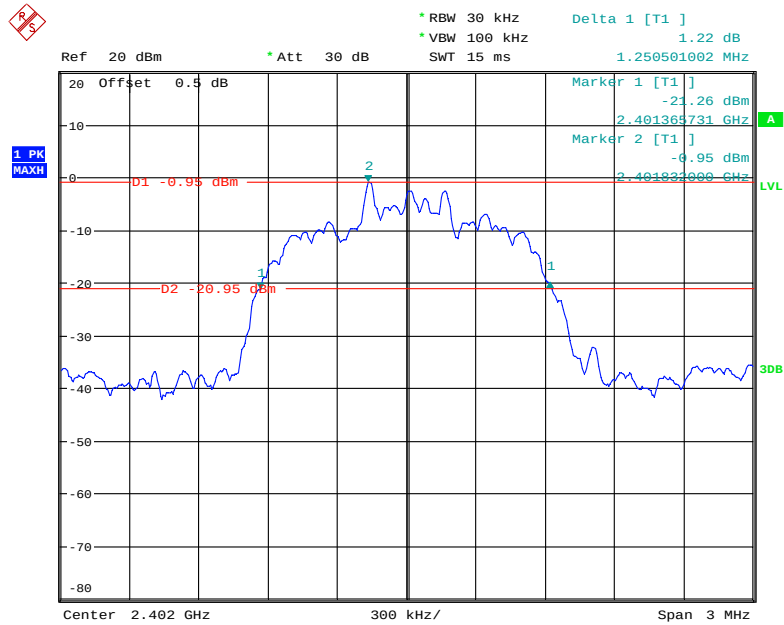


Date: 28.MAR.2018 16:40:05

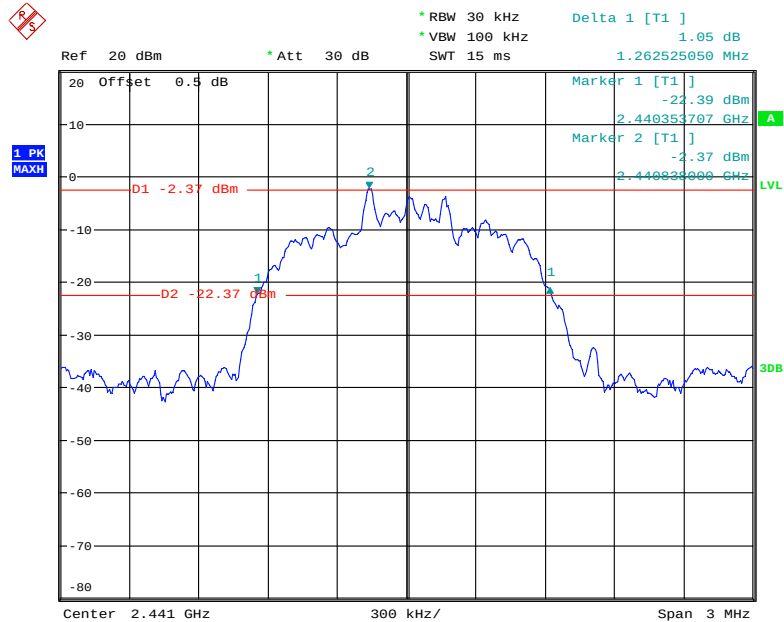
High Channel



Date: 28.MAR.2018 16:41:24

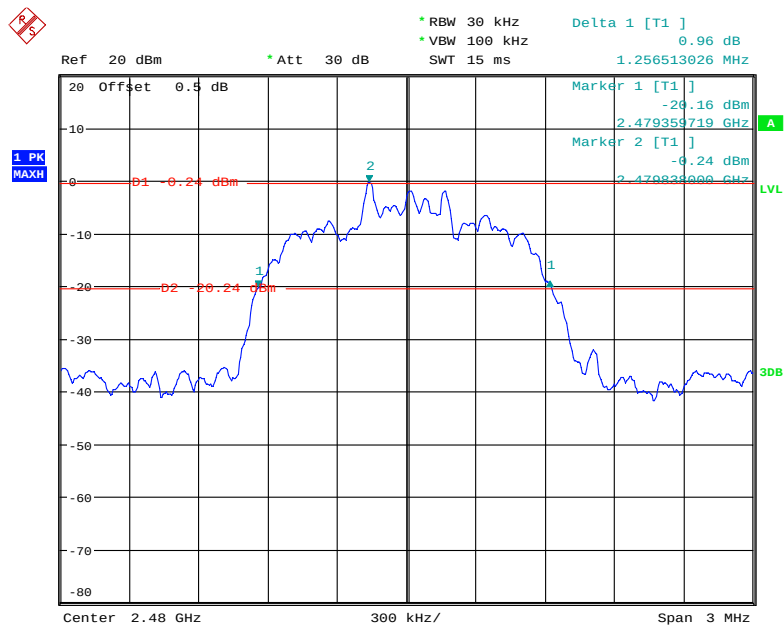
*EDR Mode ($\pi/4$ -DQPSK):***Low Channel**

Date: 28.MAR.2018 16:45:49

Middle Channel

Date: 28.MAR.2018 16:44:45

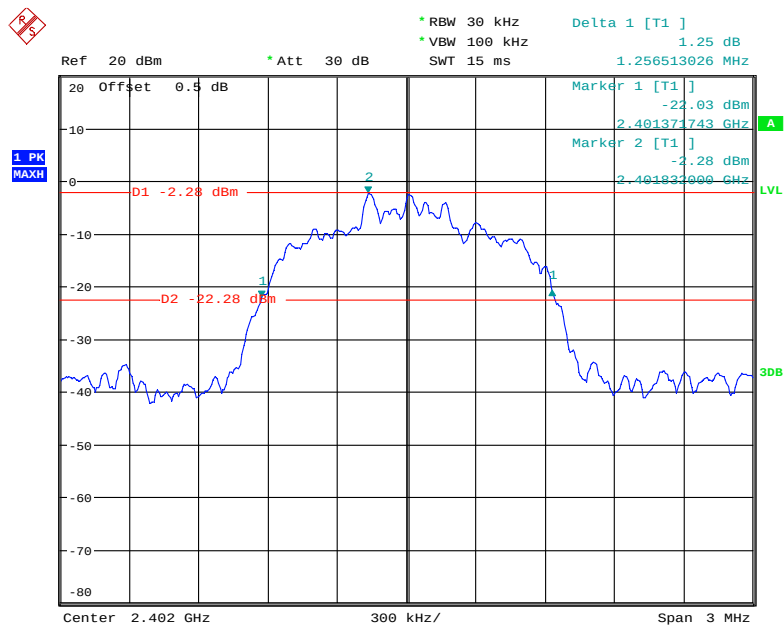
High Channel



Date: 28.MAR.2018 16:43:22

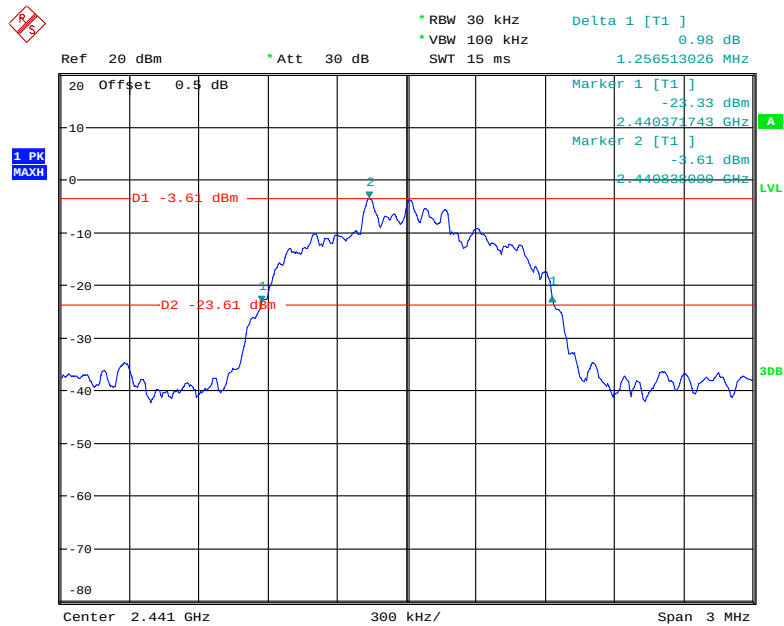
EDR Mode (8-DPSK):

Low Channel



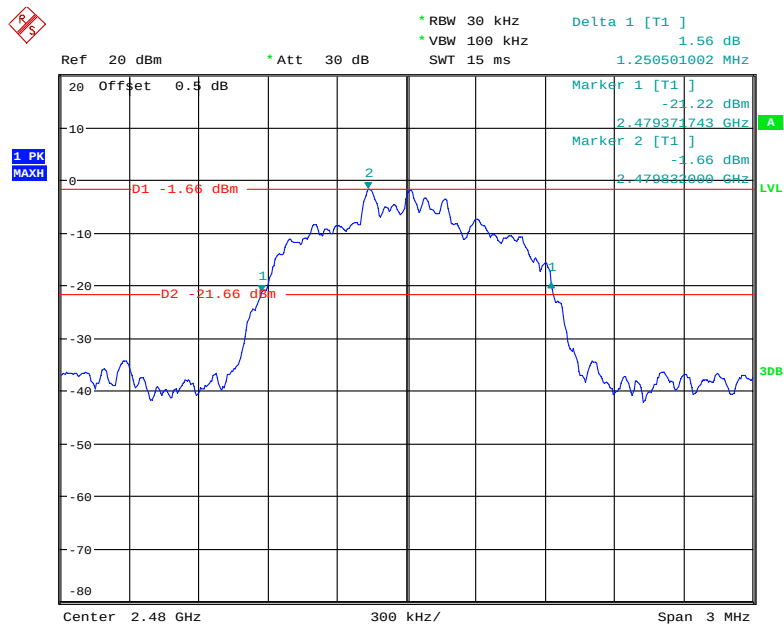
Date: 28.MAR.2018 16:47:41

Middle Channel



Date: 28.MAR.2018 16:49:03

High Channel



Date: 28.MAR.2018 16:50:07

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
N/A	Coaxial Cable	C-SJ00-0010	C0010/02	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:	25.9 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

* The testing was performed by Nami Quan on 2018-03-29.

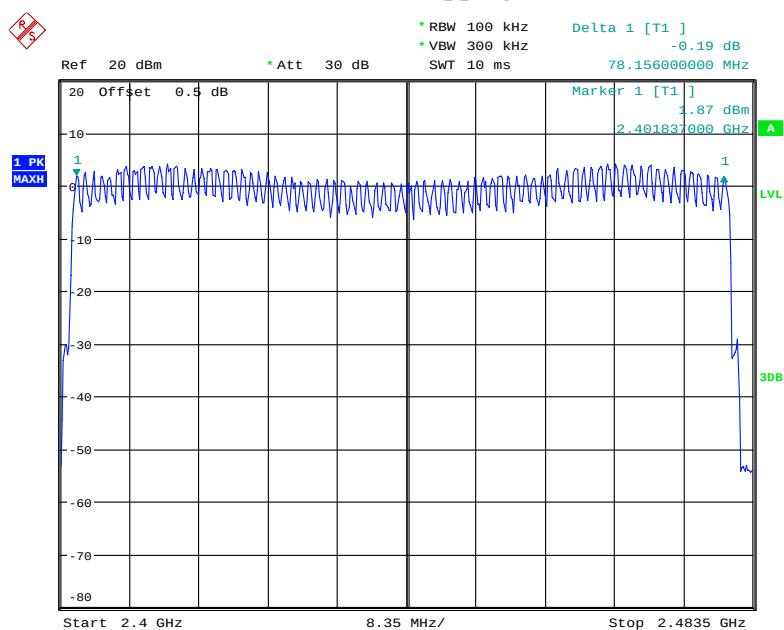
Test Result: Compliance.

Please refer to following tables and plots

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

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

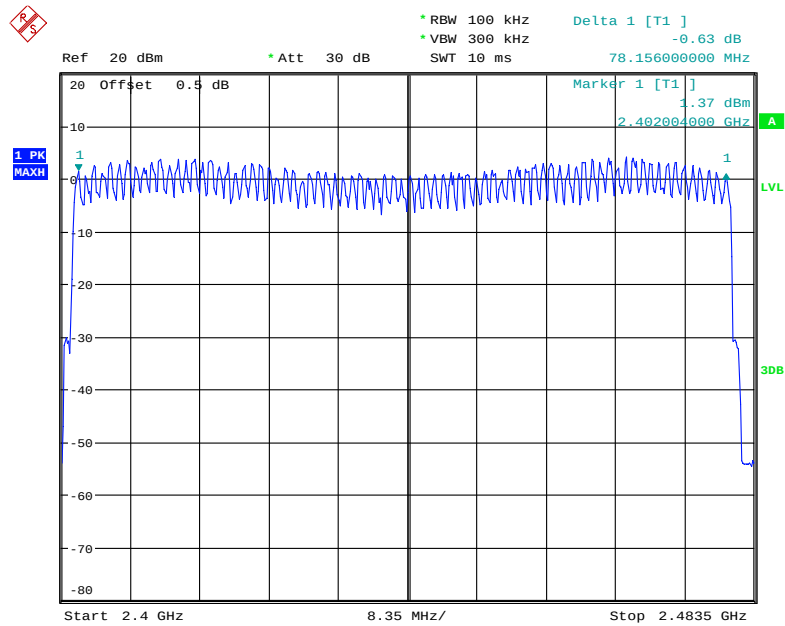
Number of Hopping Channels



Date: 29.MAR.2018 10:05:15

EDR Mode (8-DPSK):

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

Number of Hopping Channels

Date: 29.MAR.2018 10:11:39

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
N/A	Coaxial Cable	C-SJ00-0010	C0010/02	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:	25.9 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

* The testing was performed by Nami Quan on 2018-03-29.

Test Result: Compliance.

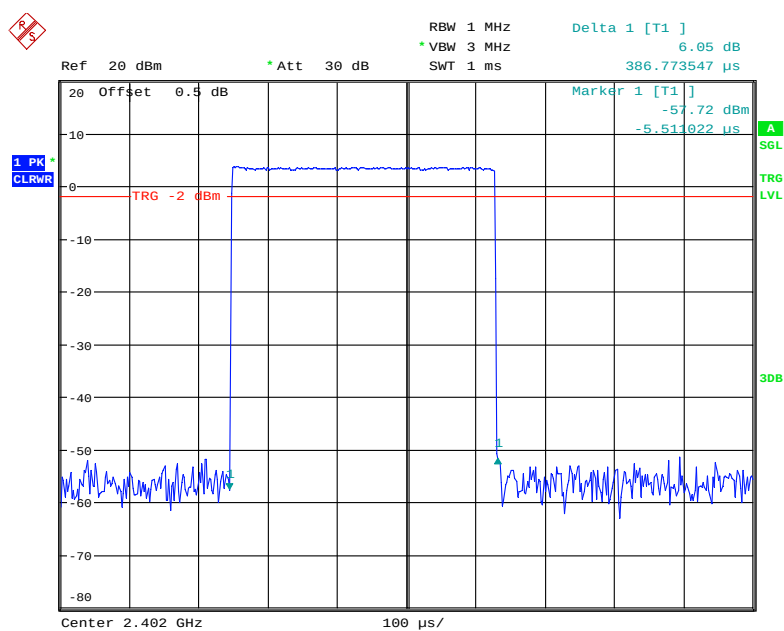
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

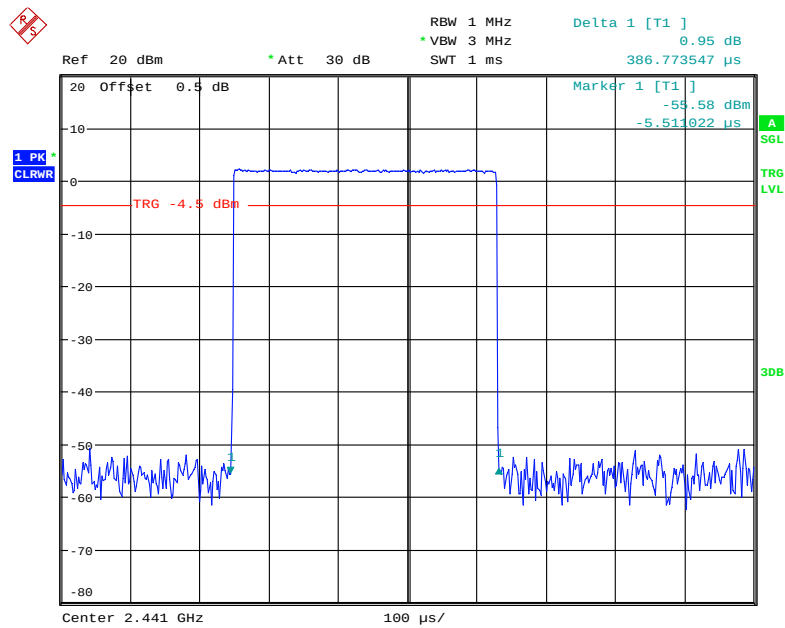
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.387	0.124	0.4	Compliance
	Middle	0.387	0.124	0.4	Compliance
	High	0.385	0.123	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
DH3	Low	1.659	0.265	0.4	Compliance
	Middle	1.659	0.265	0.4	Compliance
	High	1.659	0.265	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
DH5	Low	2.926	0.312	0.4	Compliance
	Middle	2.916	0.311	0.4	Compliance
	High	2.916	0.311	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

DH1: Low Channel



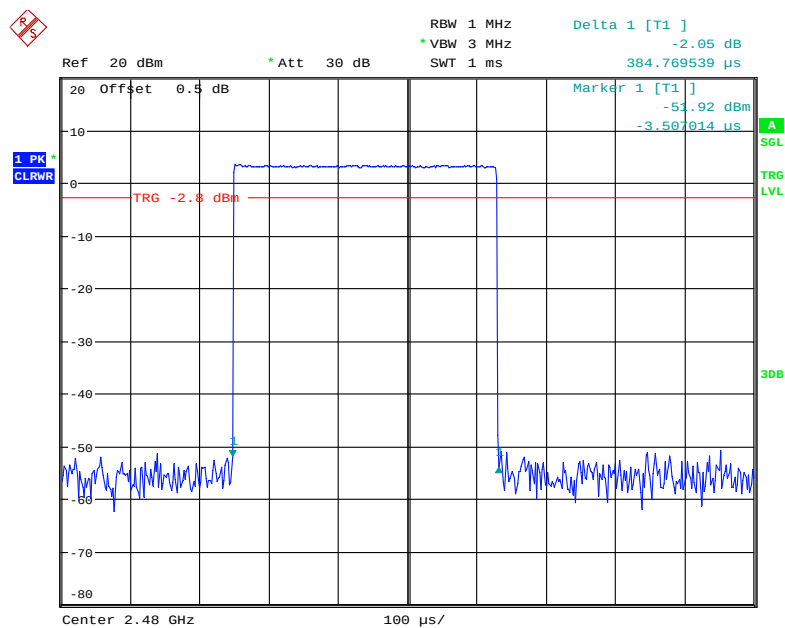
Date: 29.MAR.2018 10:21:30

DH1: Middle Channel



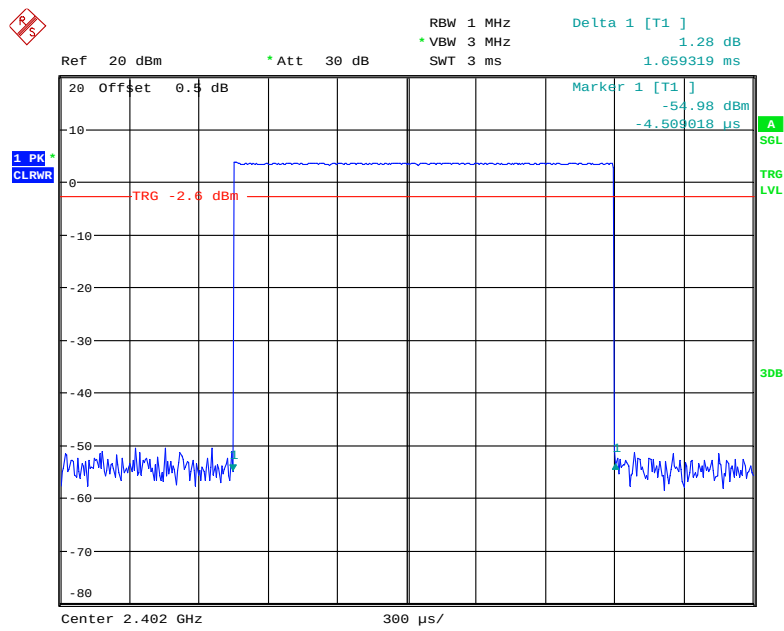
Date: 29.MAR.2018 10:21:38

DH1: High Channel



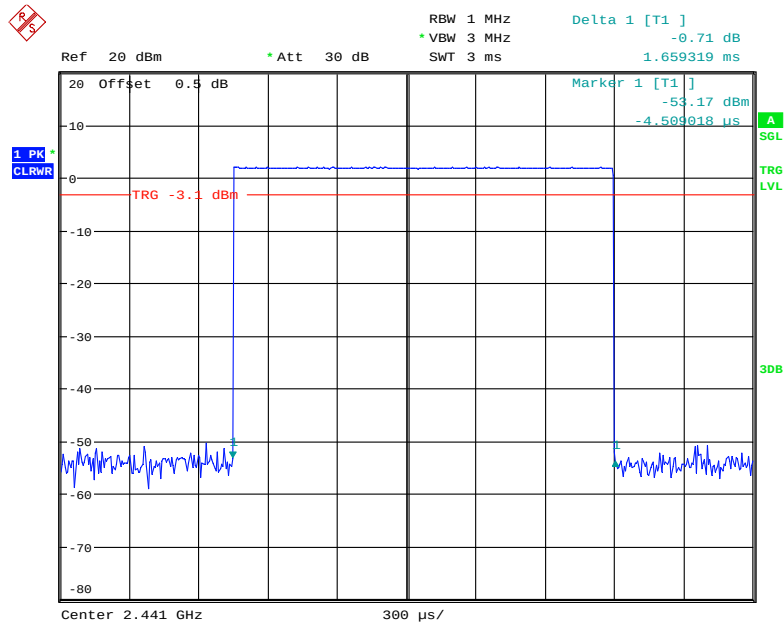
Date: 29.MAR.2018 10:21:47

DH3: Low Channel

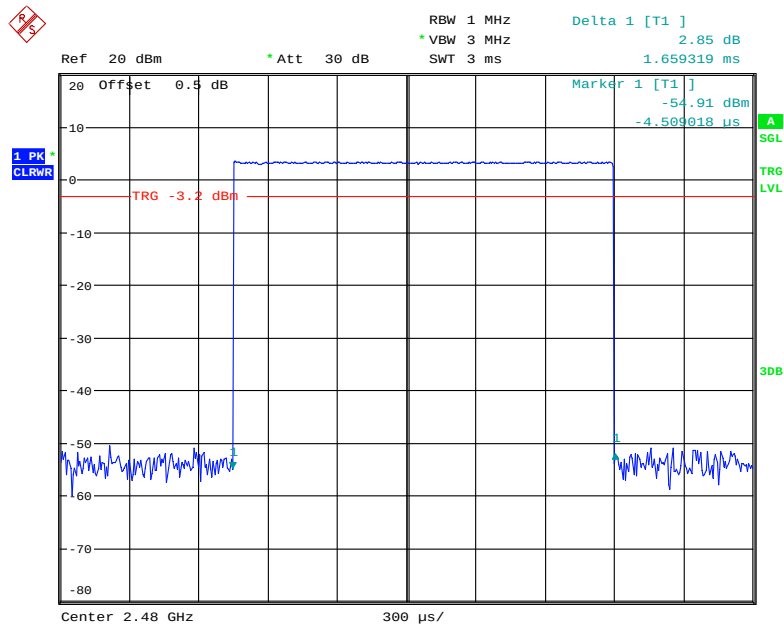


Date: 29.MAR.2018 10:22:48

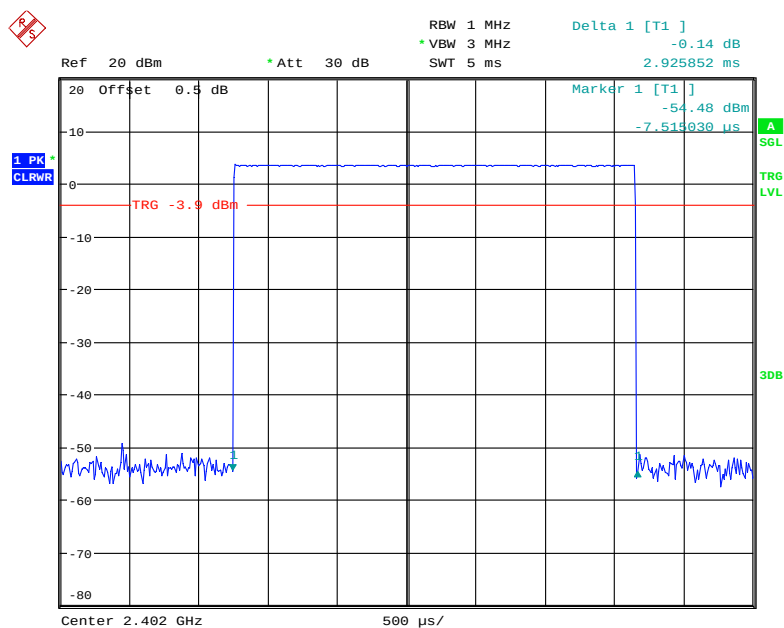
DH3: Middle Channel



Date: 29.MAR.2018 10:22:57

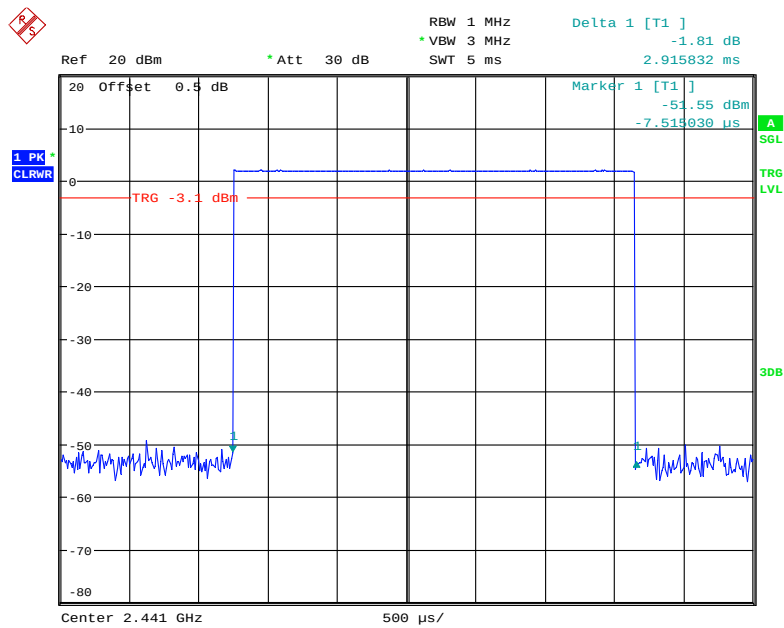
DH3: High Channel

Date: 29.MAR.2018 10:23:05

DH5: Low Channel

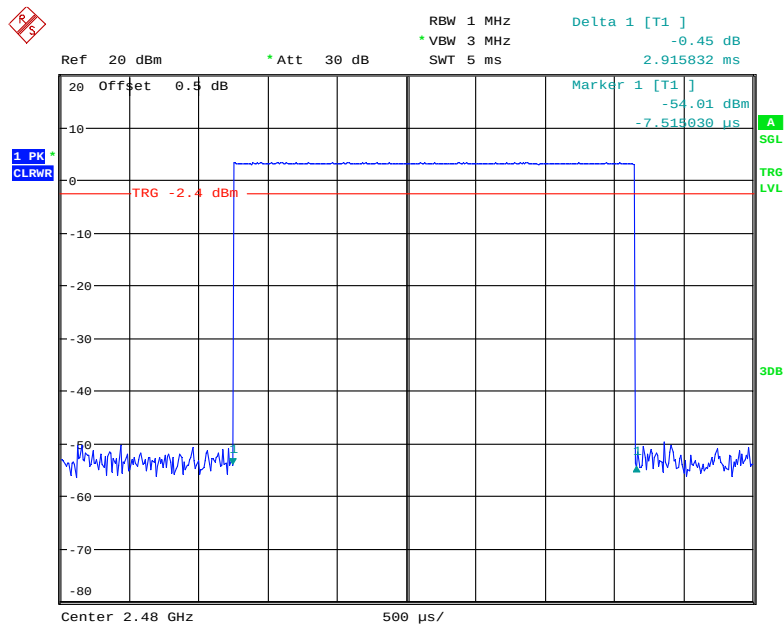
Date: 29.MAR.2018 10:24:09

DH5: Middle Channel



Date: 29.MAR.2018 10:24:17

DH5: High Channel

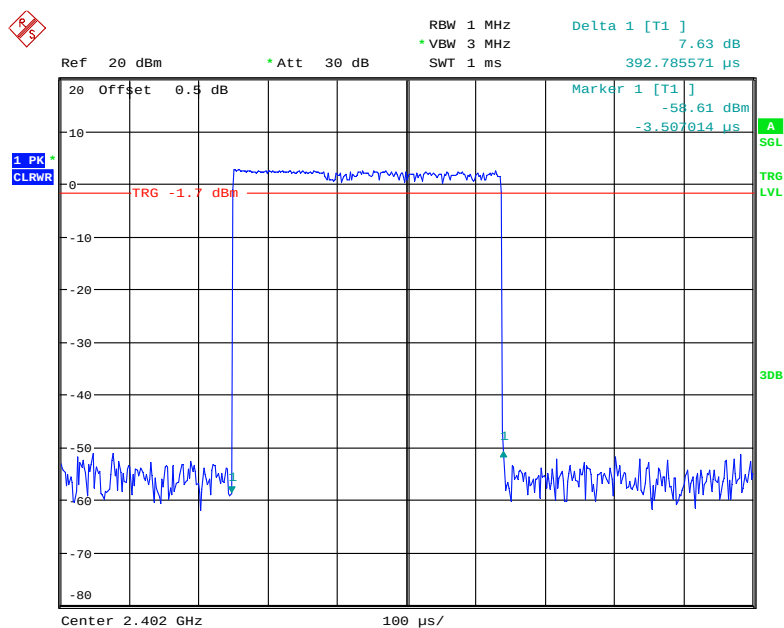


Date: 29.MAR.2018 10:24:26

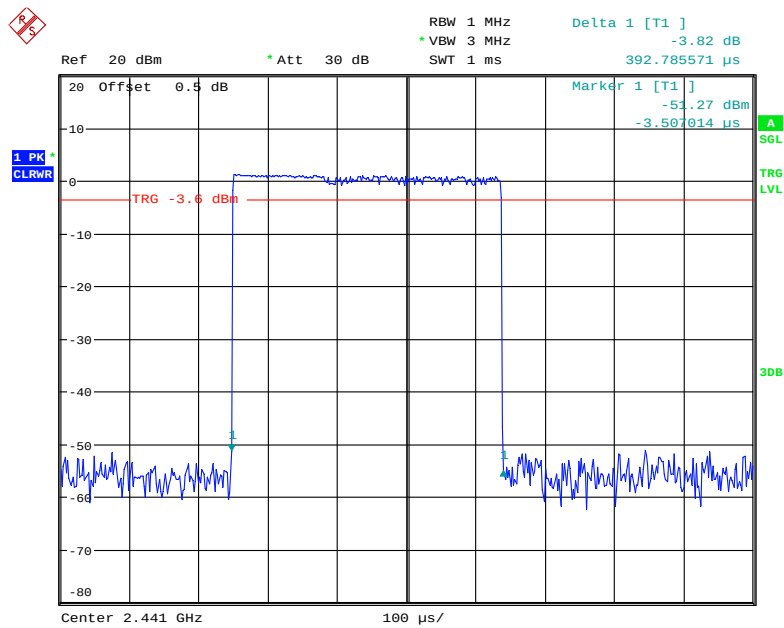
EDR Mode ($\pi/4$ -DQPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.393	0.126	0.4	Compliance
	Middle	0.393	0.126	0.4	Compliance
	High	0.395	0.126	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
2DH3	Low	1.659	0.265	0.4	Compliance
	Middle	1.665	0.266	0.4	Compliance
	High	1.665	0.266	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
2DH5	Low	2.916	0.311	0.4	Compliance
	Middle	2.916	0.311	0.4	Compliance
	High	2.916	0.311	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

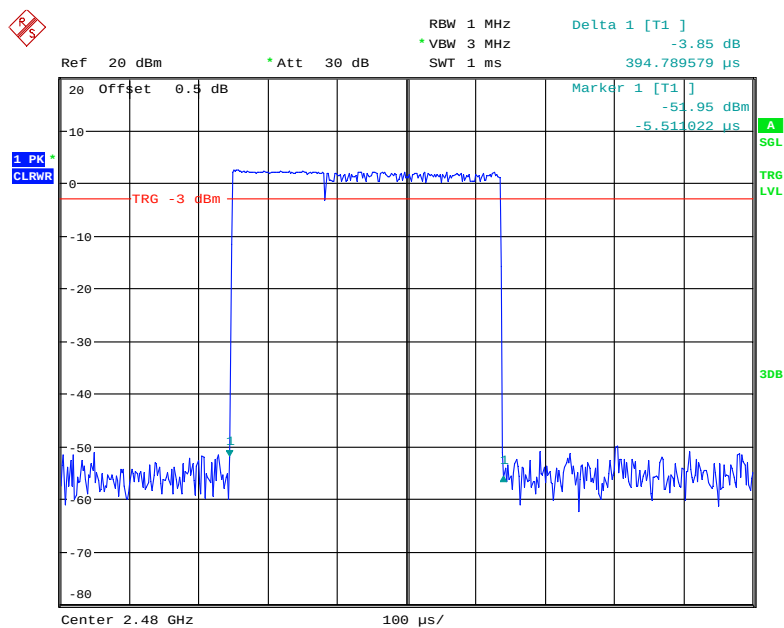
2DH1: Low Channel



Date: 29.MAR.2018 10:30:47

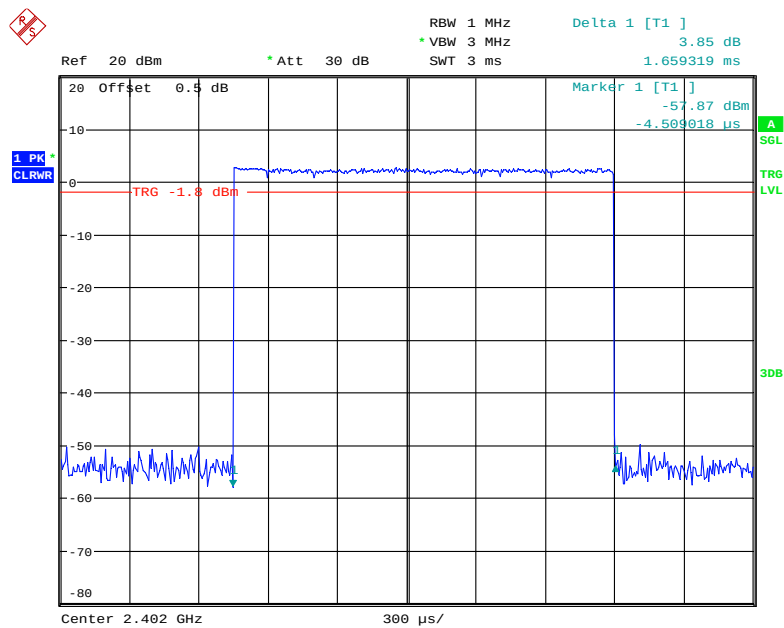
2DH1: Middle Channel

Date: 29.MAR.2018 10:31:07

2DH1: High Channel

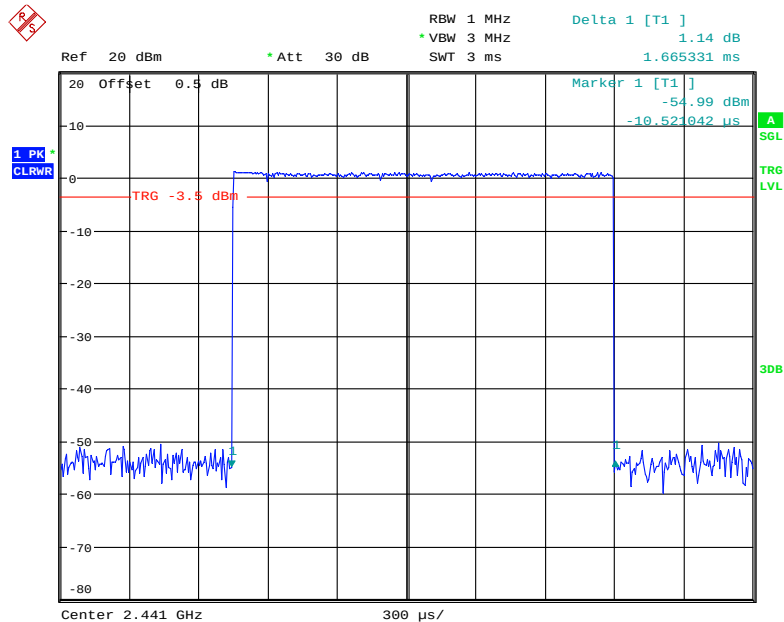
Date: 29.MAR.2018 10:31:19

2DH3: Low Channel

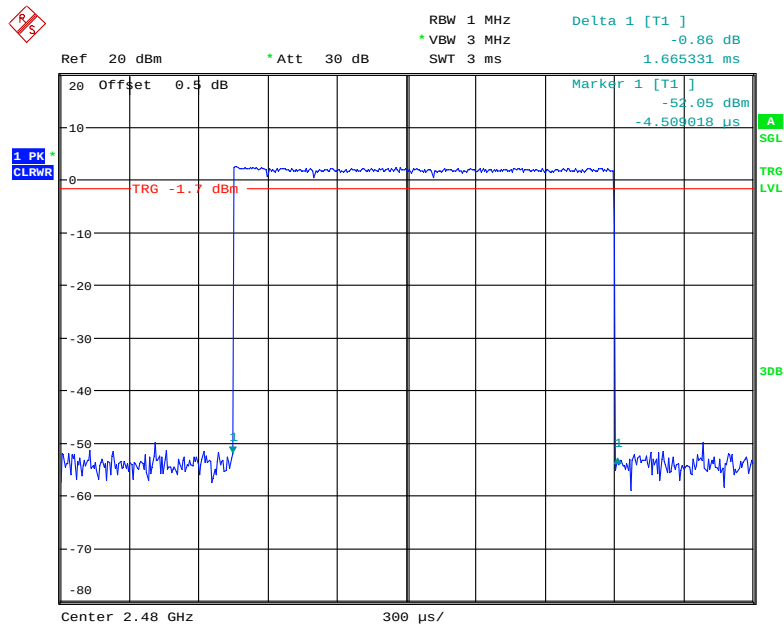


Date: 29.MAR.2018 10:26:54

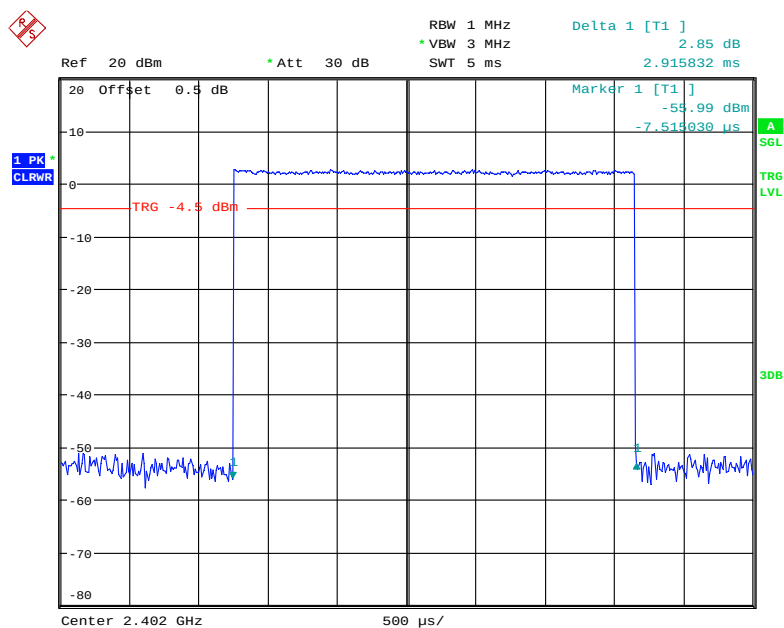
2DH3: Middle Channel



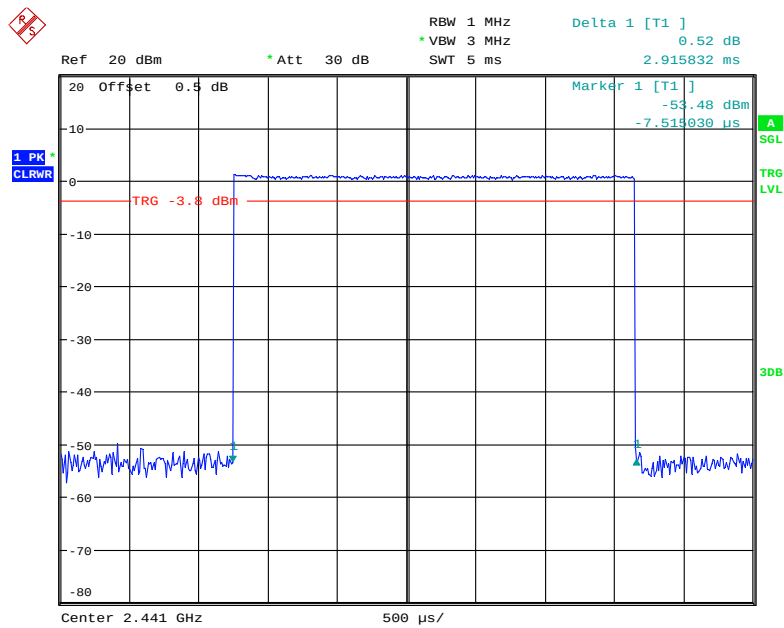
Date: 29.MAR.2018 10:27:02

2DH3: High Channel

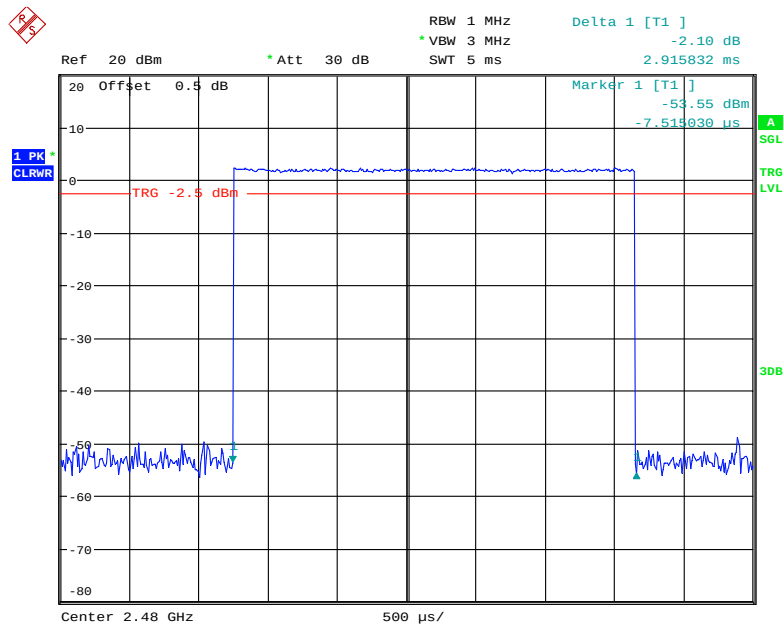
Date: 29.MAR.2018 10:27:11

2DH5: Low Channel

Date: 29.MAR.2018 10:29:56

2DH5: Middle Channel

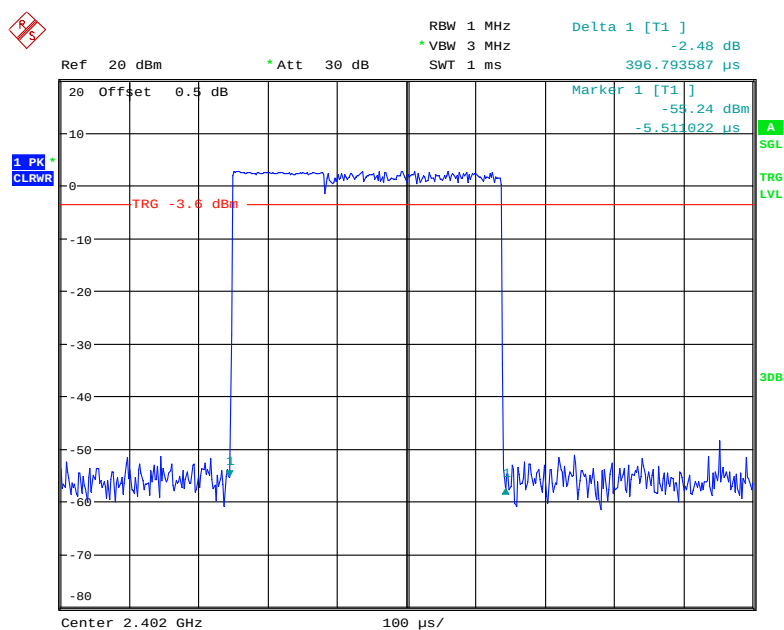
Date: 29.MAR.2018 10:30:05

2DH5: High Channel

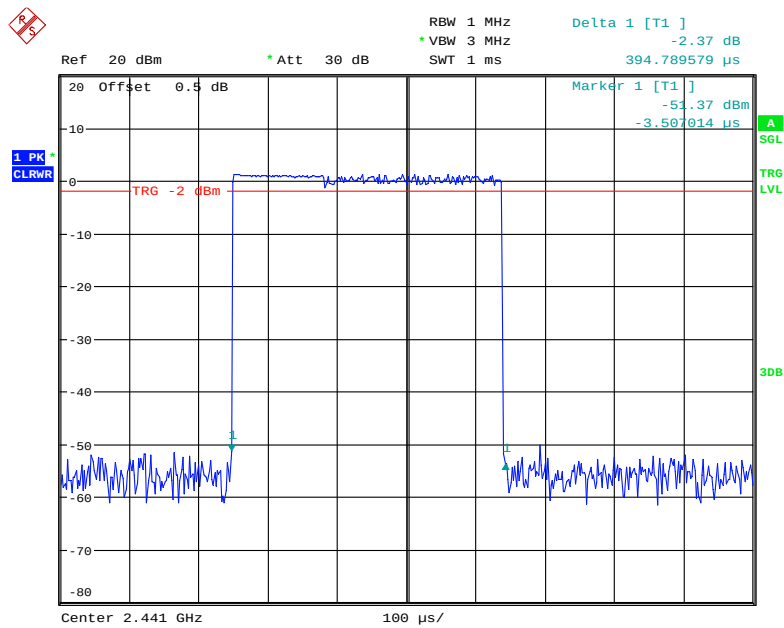
Date: 29.MAR.2018 10:30:13

EDR Mode (8-DPSK):

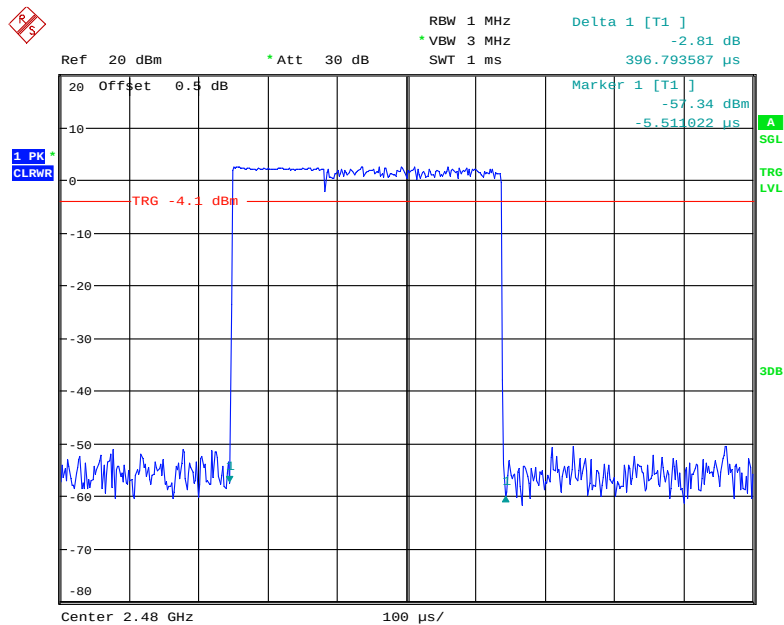
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
3DH1	Low	0.397	0.127	0.4	Compliance
	Middle	0.395	0.126	0.4	Compliance
	High	0.397	0.127	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
3DH3	Low	1.659	0.265	0.4	Compliance
	Middle	1.659	0.265	0.4	Compliance
	High	1.665	0.266	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
3DH5	Low	2.926	0.312	0.4	Compliance
	Middle	2.926	0.312	0.4	Compliance
	High	2.926	0.312	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

3DH1: Low Channel

Date: 29.MAR.2018 10:32:21

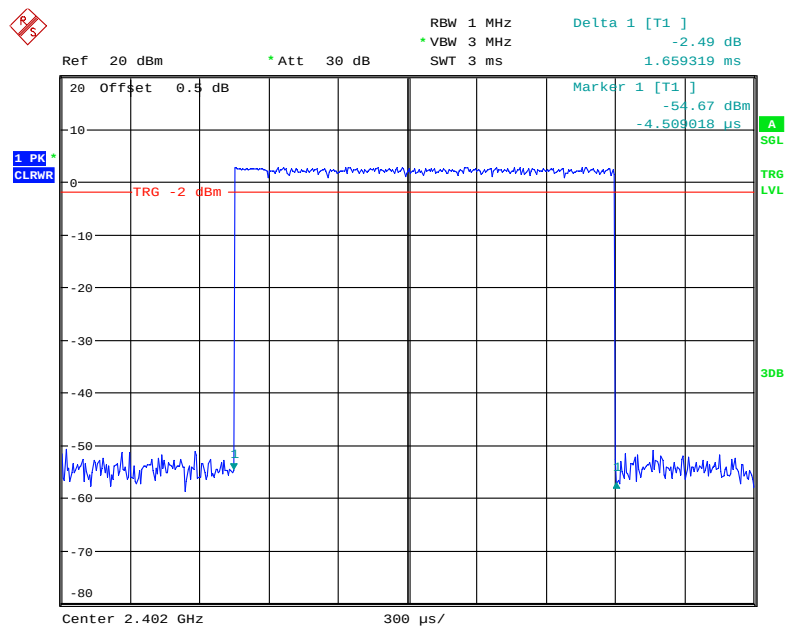
3DH1: Middle Channel

Date: 29.MAR.2018 10:32:29

3DH1: High Channel

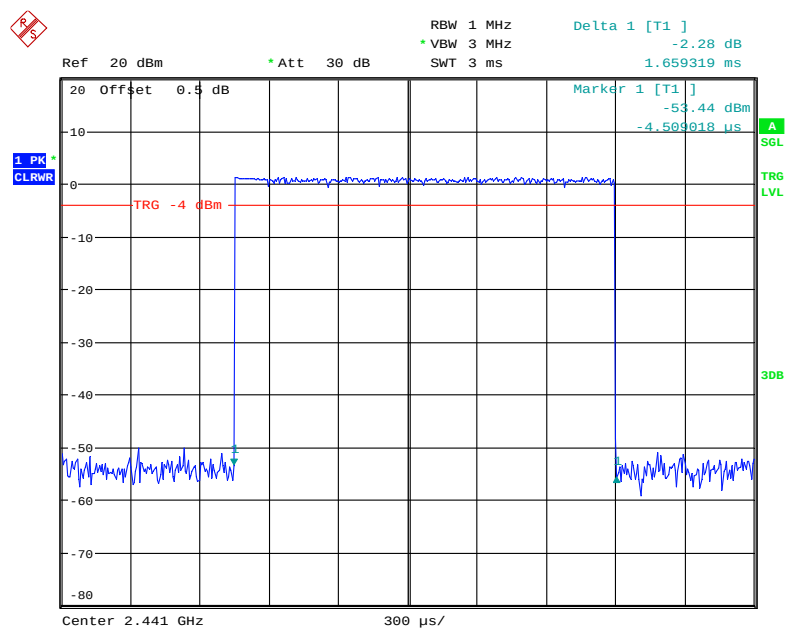
Date: 29.MAR.2018 10:32:38

3DH3: Low Channel



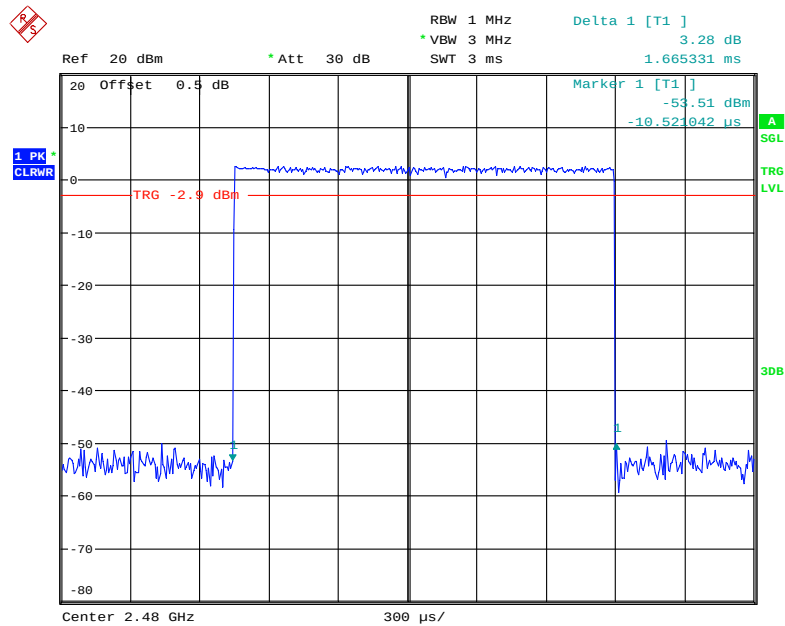
Date: 29.MAR.2018 10:33:33

3DH3: Middle Channel



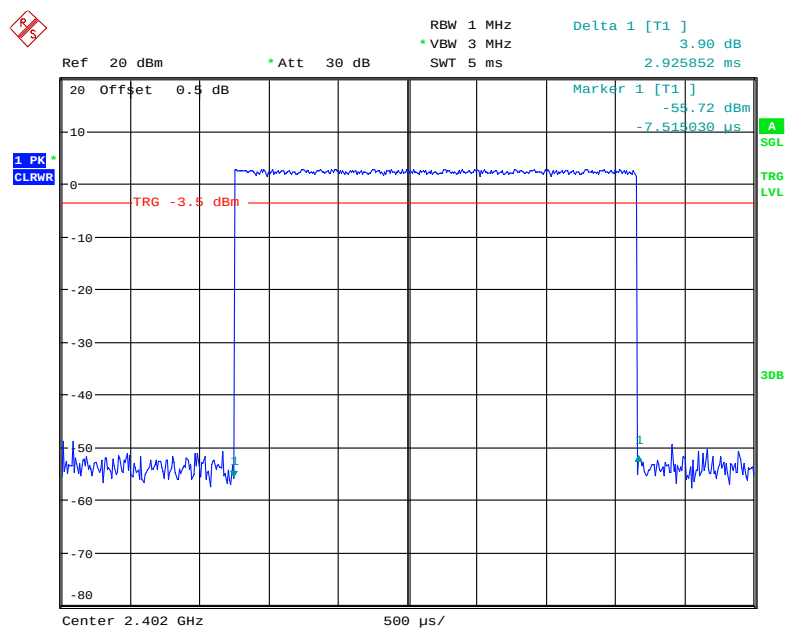
Date: 29.MAR.2018 10:33:41

3DH3: High Channel



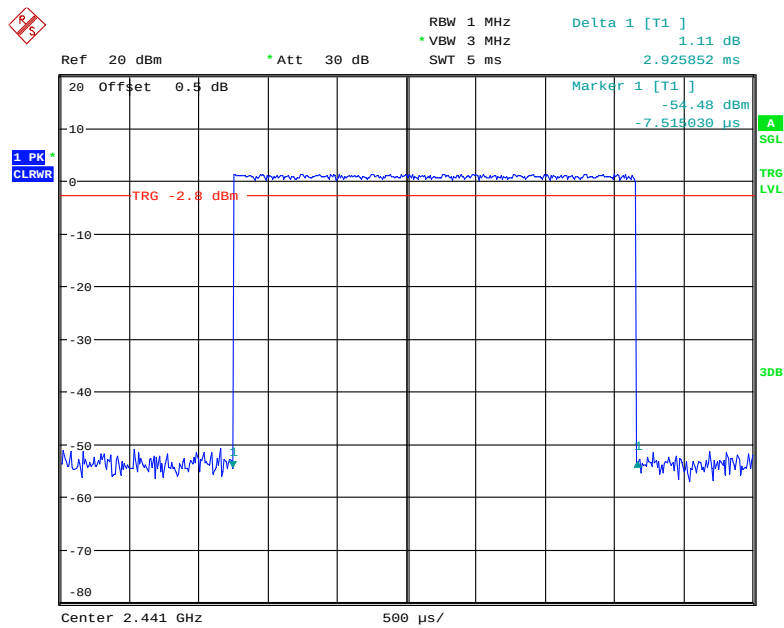
Date: 29.MAR.2018 10:33:50

3DH5: Low Channel



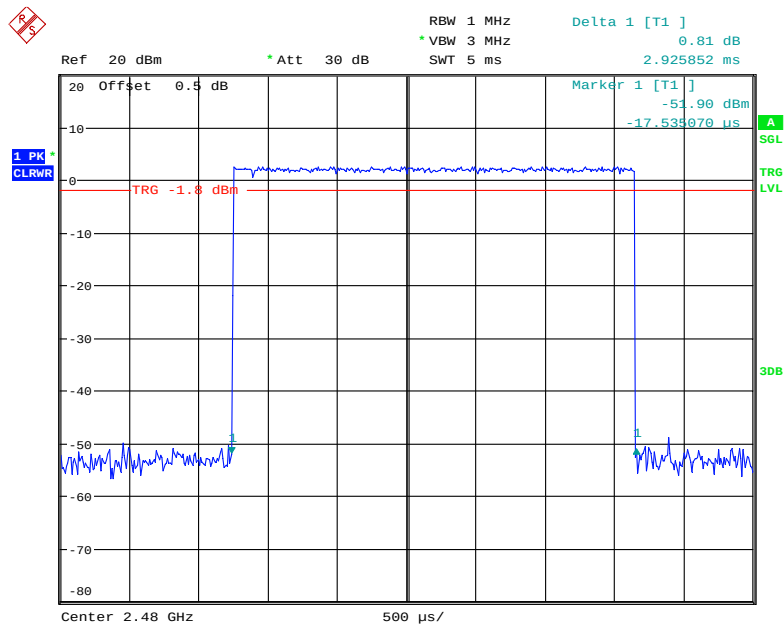
Date: 29.MAR.2018 10:35:27

3DH5: Middle Channel



Date: 29.MAR.2018 10:35:36

3DH5: High Channel



Date: 29.MAR.2018 10:35:45

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	Wideband Power Sensor	N1921A	MY54170013	2017-11-03	2018-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2017-11-03	2018-11-03
N/A	Coaxial Cable	C-SJ00-0010	C0010/02	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:	25.9 °C
Relative Humidity:	51 %
ATM Pressure:	100.8 kPa

* The testing was performed by Nami Quan on 2018-03-29.

Test Result: Compliance.

Test Mode: Transmitting

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	2.75	21
	2415	5.68	21
	2441	1.15	21
	2466	6.74	21
	2480	3.32	21
EDR Mode ($\pi/4$ -DQPSK)	2402	1.82	21
	2415	5.26	21
	2441	0.19	21
	2466	6.48	21
	2480	2.42	21
EDR Mode (8-DPSK)	2402	2.05	21
	2415	5.61	21
	2441	0.55	21
	2466	6.45	21
	2480	2.57	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
N/A	Coaxial Cable	C-SJ00-0010	C0010/02	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**

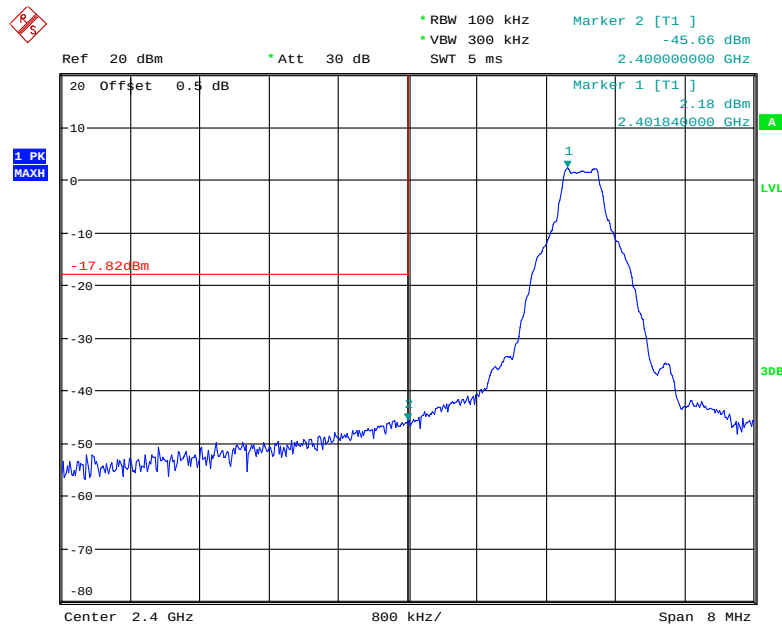
Temperature:	25.9~26.1 °C
Relative Humidity:	51~52 %
ATM Pressure:	100.8~100.9 kPa

* The testing was performed by Nami Quan on 2018-03-28&2018-03-29.

Test Result: Compliance

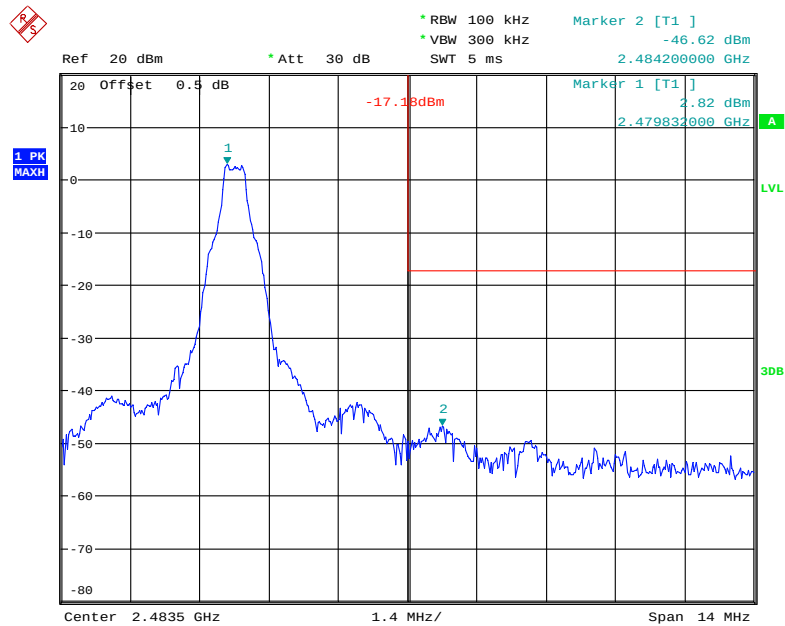
Single mode:

BDR Mode (GFSK):

Band Edge, Left Side

Date: 28.MAR.2018 16:39:37

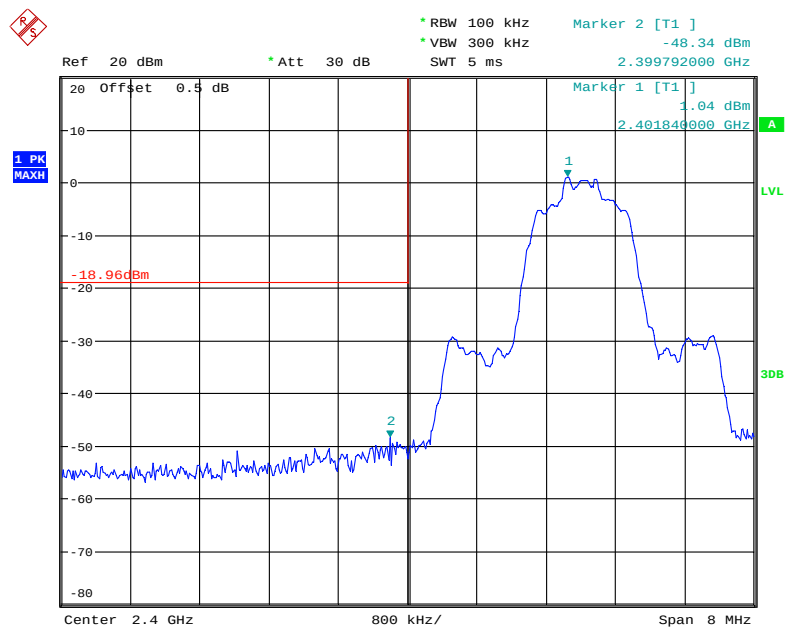
Band Edge, Right Side



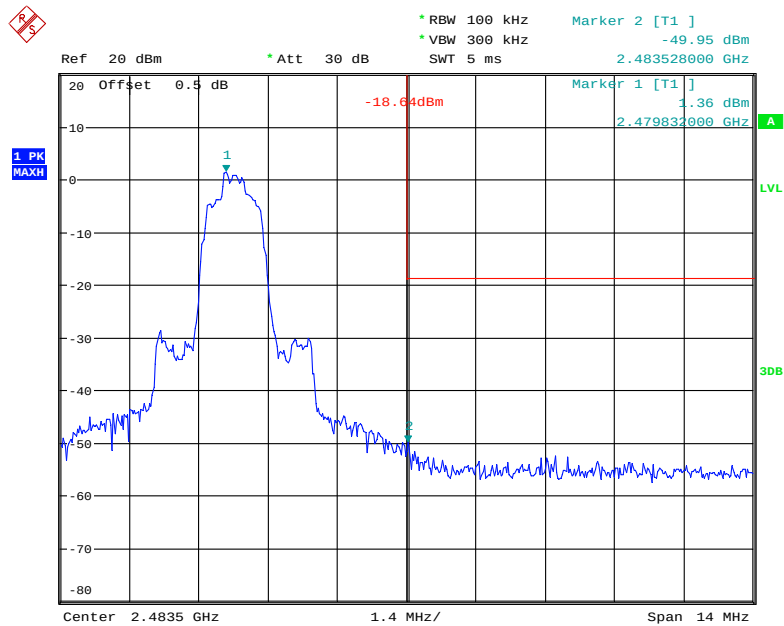
Date: 28.MAR.2018 16:42:14

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

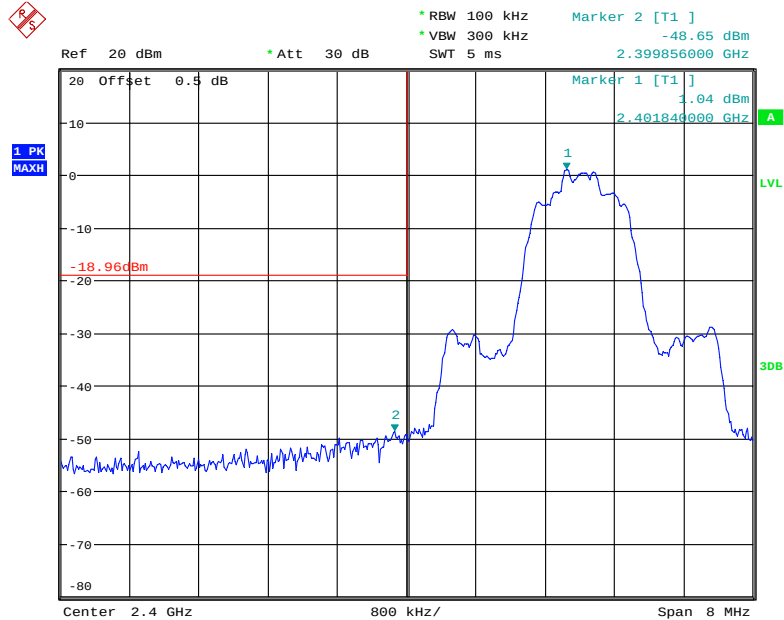
Band Edge, Left Side



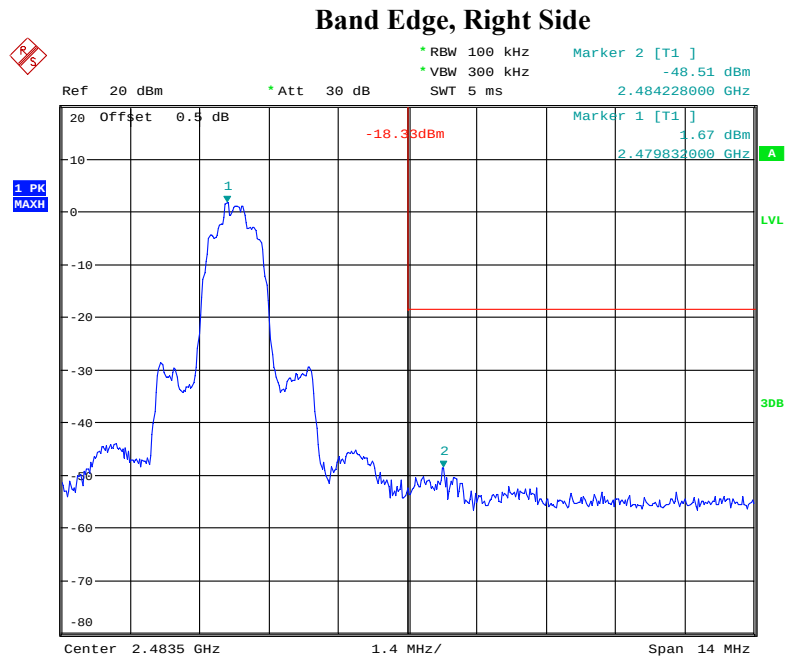
Date: 28.MAR.2018 16:46:37

Band Edge, Right Side

Date: 28.MAR.2018 16:44:08

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

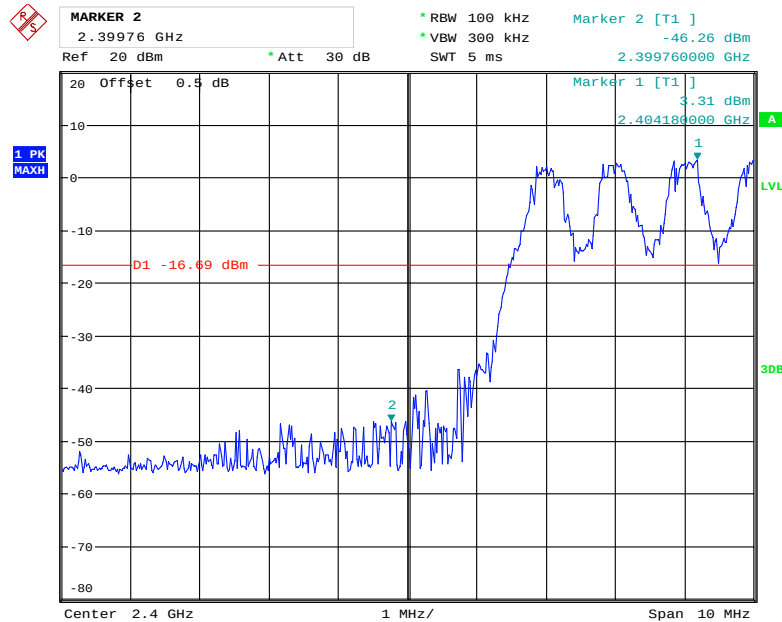
Date: 28.MAR.2018 16:48:30



Date: 28.MAR.2018 16:51:03

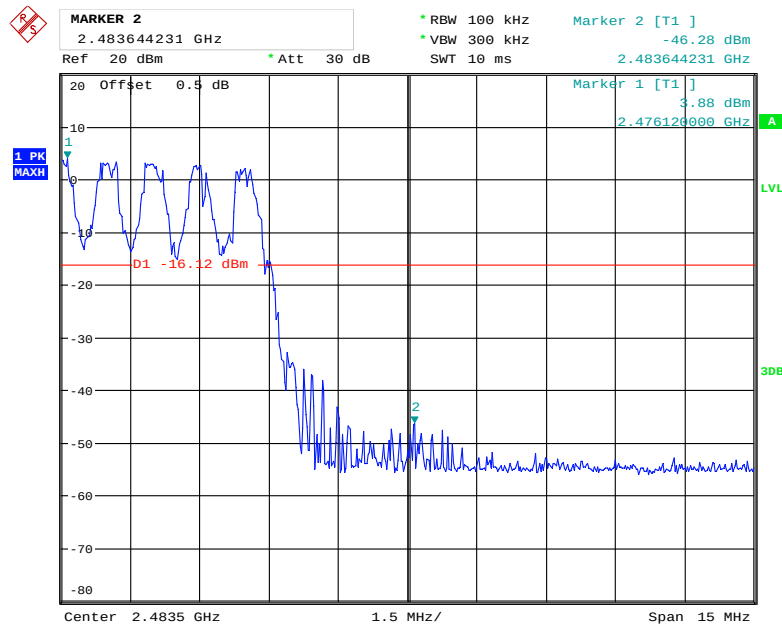
Hopping mode:
BDR Mode (GFSK):

Band Edge, Left Side



Date: 29.MAR.2018 11:54:07

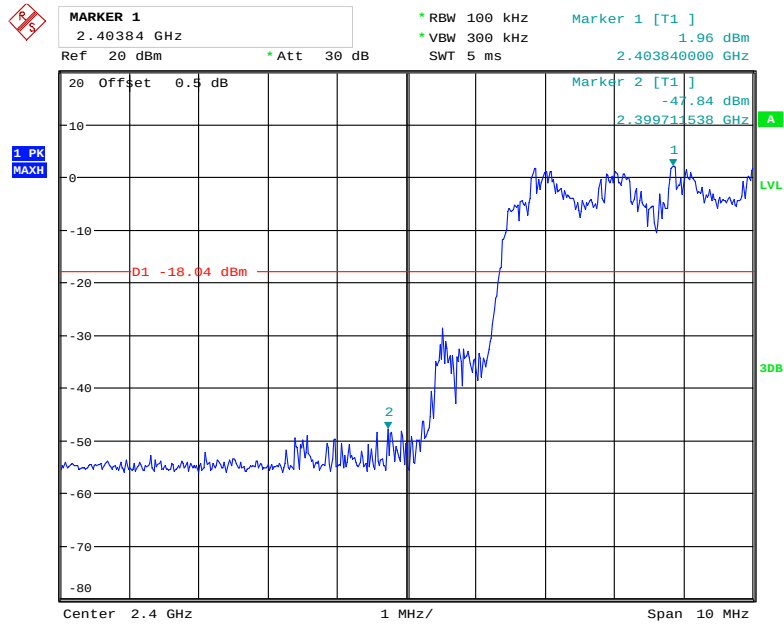
Band Edge, Right Side



Date: 29.MAR.2018 11:55:08

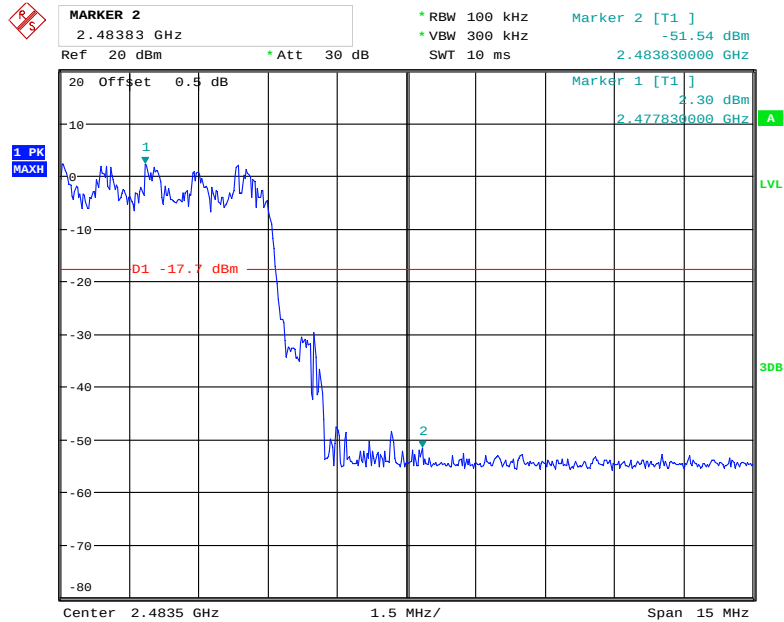
EDR Mode ($\pi/4$ -DQPSK):

Band Edge, Left Side

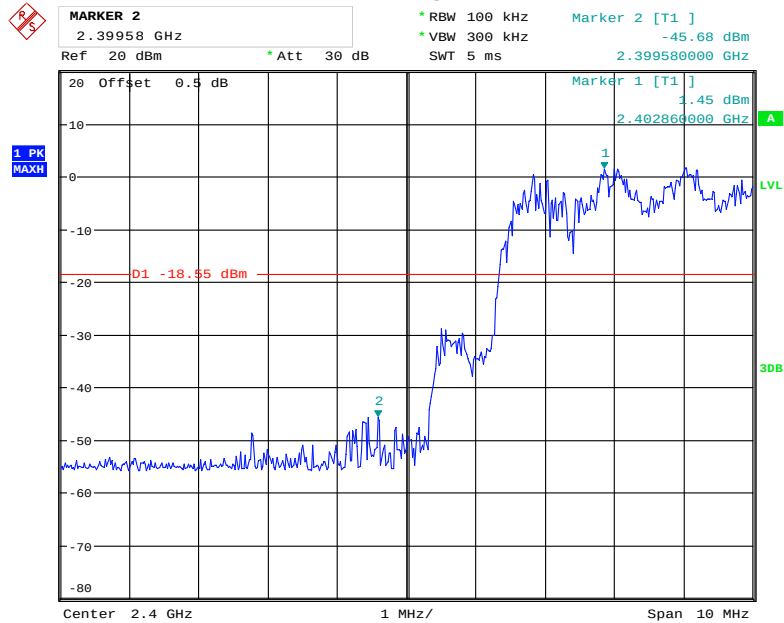


Date: 29.MAR.2018 13:09:46

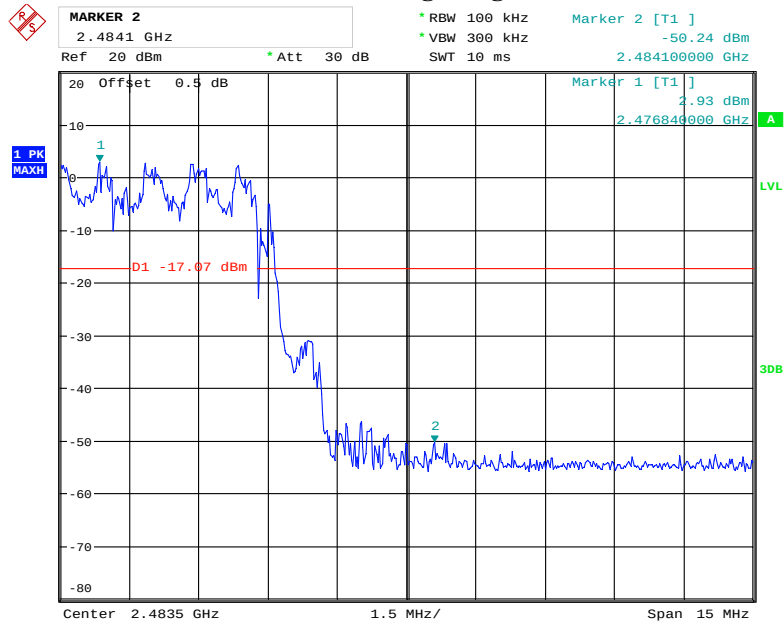
Band Edge, Right Side



Date: 29.MAR.2018 13:08:29

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

Date: 29.MAR.2018 11:59:07

Band Edge, Right Side

Date: 29.MAR.2018 12:00:26

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