



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-BH197A

Report Type: Original Report	Product Name: Bluetooth headset
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Report Date: 2018-08-25	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	Bluetooth headset
EUT Model:	BH197A
FCC ID:	2AMH2-BH197A
Rated Input Voltage:	3.7V _{DC} from battery or 5V _{DC} from USB port
External Dimension:	850mm(L)*16mm(W)*22mm(H)
Serial Number:	180813001
EUT Received Date:	2018-08-14

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-BH197A.

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: 4.55 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 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

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	40	40	40
$\pi/4$ -DQPSK	40	40	40
8-DPSK	40	40	40

Equipment Modifications

No modification was made to the EUT.

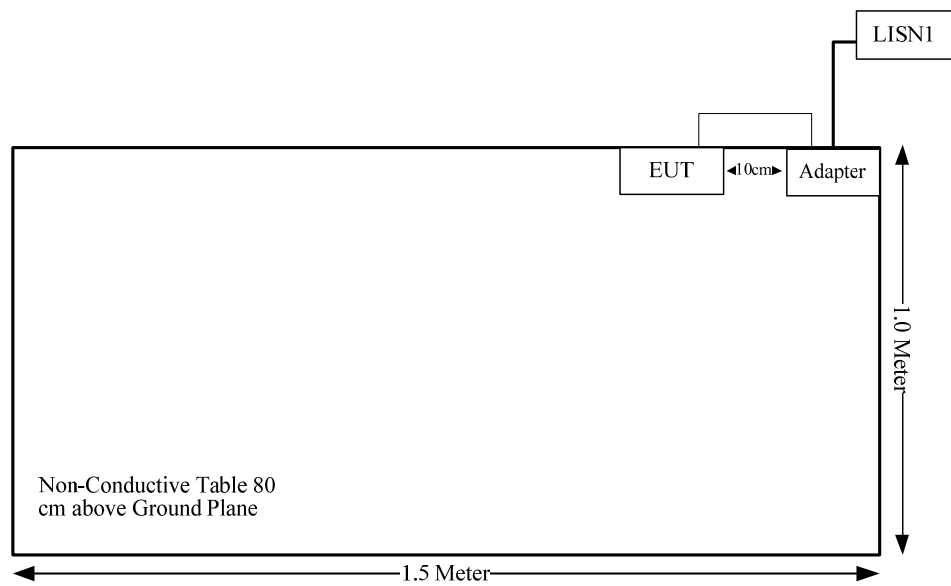
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Adapter	SSW-2680US	/

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 8.5 dBm (7.08 mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 7.08/5 \cdot (\sqrt{2.480}) = 2.2 < 3.0$

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

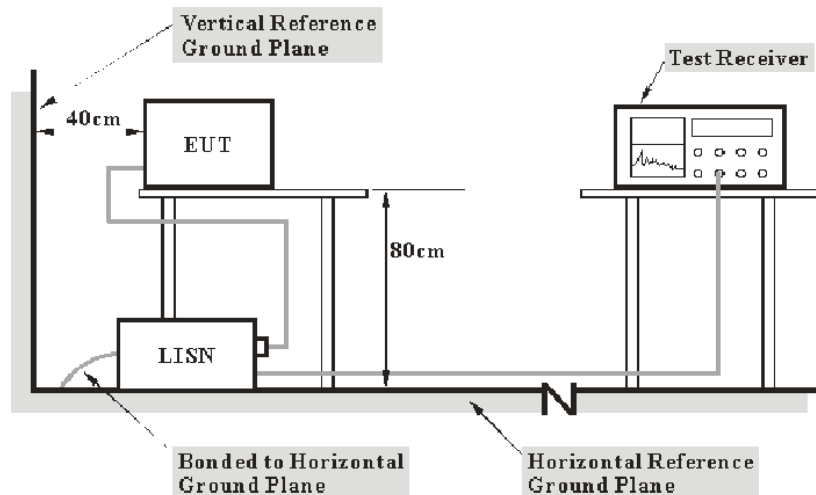
Result: Compliance.

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
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2017-09-05	2018-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2017-12-08	2018-12-08

* **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

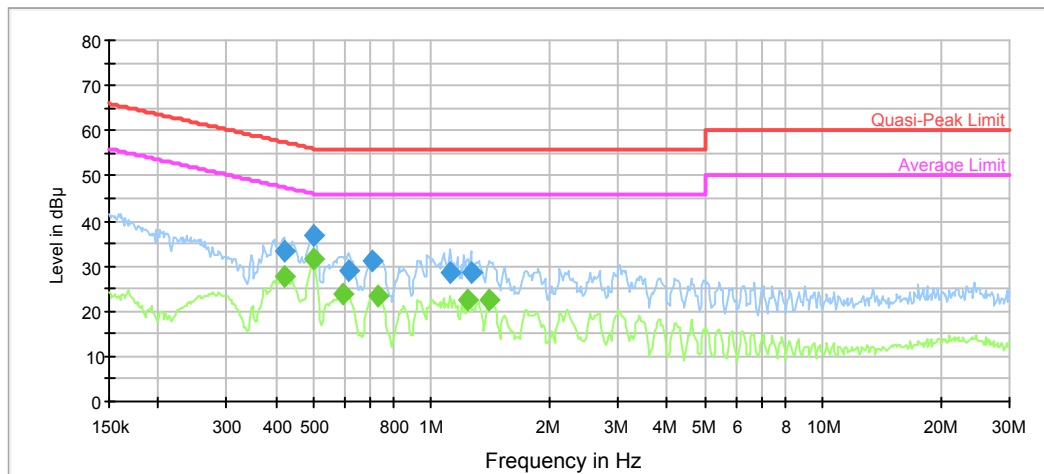
Environmental Conditions

Temperature:	26.7 °C
Relative Humidity:	64 %
ATM Pressure:	99.7 kPa

The testing was performed by Alex You on 2018-08-20.

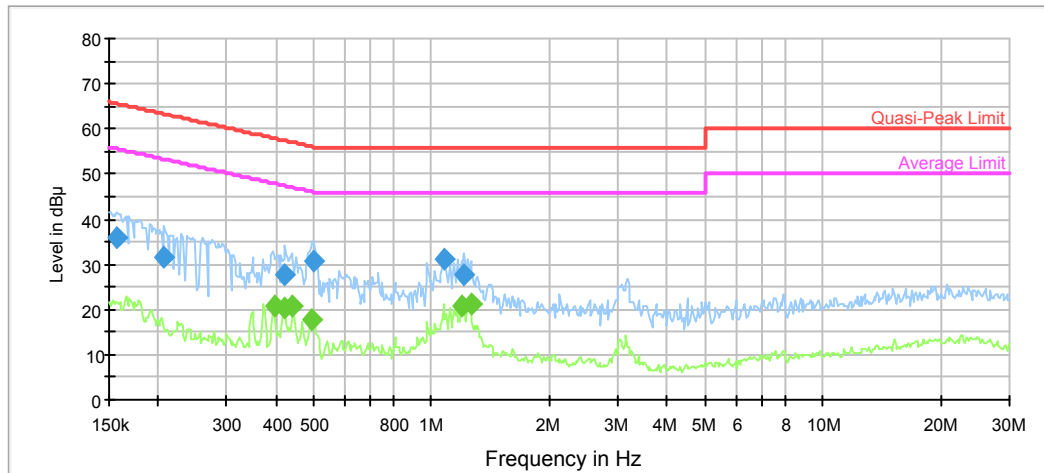
Test Mode: Charging

AC120V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.419276	33.2	9.000	L1	10.0	24.3	57.5	Compliance
0.499611	36.9	9.000	L1	9.9	19.1	56.0	Compliance
0.614619	28.9	9.000	L1	9.8	27.1	56.0	Compliance
0.709407	31.0	9.000	L1	9.8	25.0	56.0	Compliance
1.117238	28.3	9.000	L1	9.8	27.7	56.0	Compliance
1.259081	28.5	9.000	L1	9.8	27.5	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.419276	27.8	9.000	L1	10.0	19.7	47.5	Compliance
0.499611	31.6	9.000	L1	9.9	14.4	46.0	Compliance
0.595338	24.0	9.000	L1	9.8	22.0	46.0	Compliance
0.726569	23.6	9.000	L1	9.8	22.4	46.0	Compliance
1.239175	22.4	9.000	L1	9.8	23.6	46.0	Compliance
1.407671	22.6	9.000	L1	9.7	23.4	46.0	Compliance

AC120V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.157346	35.8	9.000	N	11.1	29.8	65.6	Compliance
0.207957	31.5	9.000	N	10.6	31.8	63.3	Compliance
0.422630	27.6	9.000	N	9.9	29.8	57.4	Compliance
0.499611	30.6	9.000	N	9.9	25.4	56.0	Compliance
1.073601	31.1	9.000	N	9.8	24.9	56.0	Compliance
1.209904	27.6	9.000	N	9.8	28.4	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.396530	20.9	9.000	N	10.0	27.0	47.9	Compliance
0.419276	20.2	9.000	N	10.0	27.3	47.5	Compliance
0.443327	20.6	9.000	N	9.9	26.4	47.0	Compliance
0.491712	17.7	9.000	N	9.9	28.4	46.1	Compliance
1.190776	20.5	9.000	N	9.8	25.5	46.0	Compliance
1.259081	21.2	9.000	N	9.8	24.8	46.0	Compliance

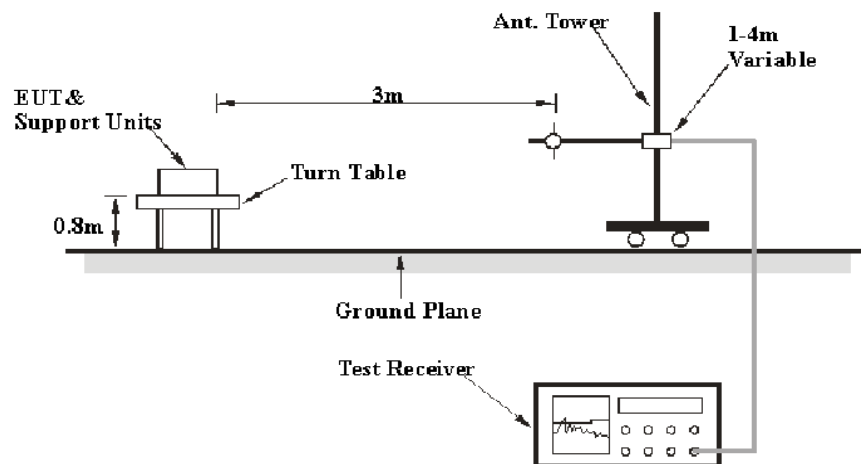
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

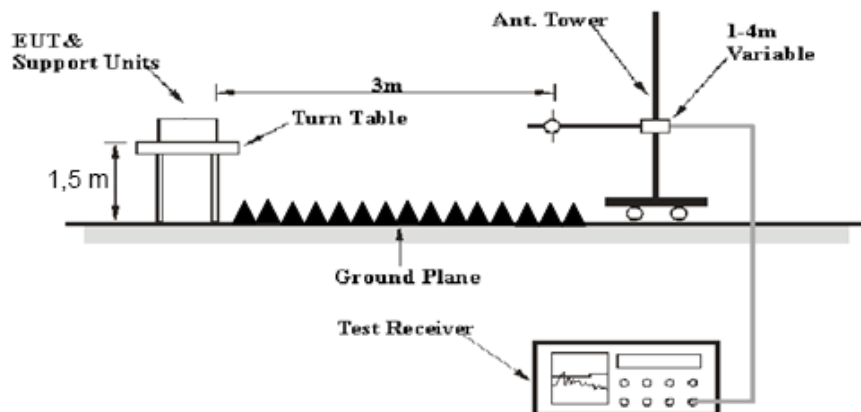
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission below 1GHz tests were performed in the 10 meters chamber test site, 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 26.5 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
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-0400-02	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-02	2017-09-05	2018-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-2200-01	2017-09-05	2018-09-05
HP	Amplifier	8447F	2443A01912	2017-09-05	2018-09-05
R&S	Spectrum Analyzer	FSP 38	100478	2017-12-08	2018-12-08
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	2017-09-05	2018-09-05
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:

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

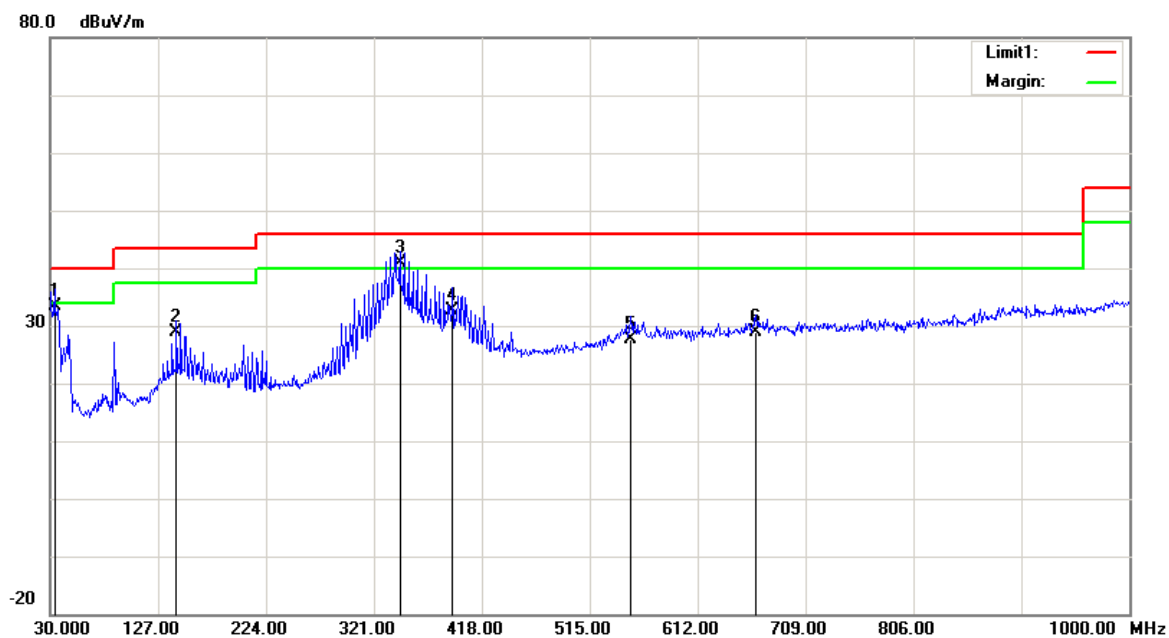
Test Data

Environmental Conditions

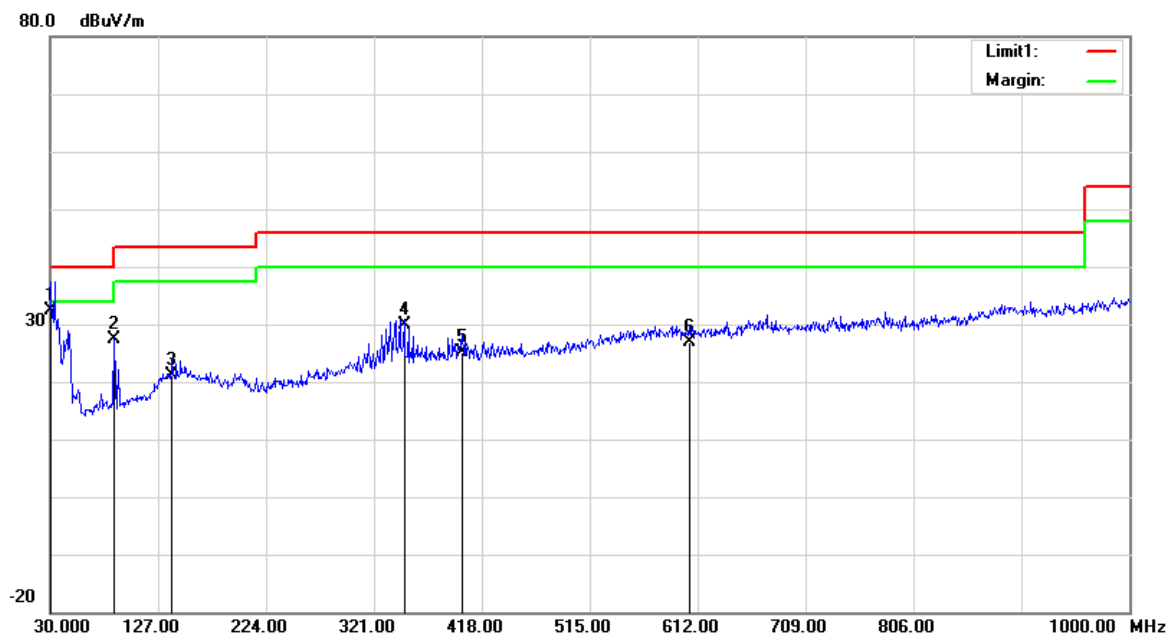
Temperature:	26.4 ~ 27.6 °C
Relative Humidity:	36 ~ 59 %
ATM Pressure:	99.6 ~ 100.2 kPa

** The testing was performed by Alex You & Sunny Cen on 2018-08-18&2018-08-23.*

Test Mode: Transmitting

1) 30MHz-1GHz (GFSK High channel was the worst)**Horizontal:**

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
33.8800	37.28	QP	-3.88	33.40	40.00	6.60
143.4900	35.69	QP	-6.79	28.90	43.50	14.60
344.2800	44.53	QP	-3.73	40.80	46.00	5.20
391.8100	35.02	QP	-2.42	32.60	46.00	13.40
551.8600	25.78	QP	1.82	27.60	46.00	18.40
664.3800	25.01	QP	3.79	28.80	46.00	17.20

Vertical:

Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB/m)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.0000	34.29	QP	-1.99	32.30	40.00	7.70
87.2300	40.42	QP	-12.92	27.50	40.00	12.50
139.6100	27.87	QP	-6.77	21.10	43.50	22.40
348.1600	33.44	QP	-3.64	29.80	46.00	16.20
400.5400	27.49	QP	-2.29	25.20	46.00	20.80
604.2400	24.06	QP	2.74	26.80	46.00	19.20

2) 1GHz-26.5GHz:*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)	Measurement	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	68.34	PK	H	24.82	3.34	0.00	96.50	N/A	N/A
2402.00	57.51	AV	H	24.82	3.34	0.00	85.67	N/A	N/A
2402.00	66.98	PK	V	24.82	3.34	0.00	95.14	N/A	N/A
2402.00	55.56	AV	V	24.82	3.34	0.00	83.72	N/A	N/A
2390.00	23.79	PK	H	24.80	3.33	0.00	51.92	74.00	22.08
2390.00	11.15	AV	H	24.80	3.33	0.00	39.28	54.00	14.72
4804.00	55.76	PK	H	29.71	4.58	27.36	62.69	74.00	11.31
4804.00	44.15	AV	H	29.71	4.58	27.36	51.08	54.00	2.92
7206.00	43.70	PK	H	33.93	5.59	27.19	56.03	74.00	17.97
7206.00	31.86	AV	H	33.93	5.59	27.19	44.19	54.00	9.81
Middle Channel: 2441 MHz									
2441.00	67.61	PK	H	24.89	3.36	0.00	95.86	N/A	N/A
2441.00	57.90	AV	H	24.89	3.36	0.00	86.15	N/A	N/A
2441.00	64.85	PK	V	24.89	3.36	0.00	93.10	N/A	N/A
2441.00	53.94	AV	V	24.89	3.36	0.00	82.19	N/A	N/A
4882.00	54.62	PK	H	29.86	4.56	27.56	61.48	74.00	12.52
4882.00	43.57	AV	H	29.86	4.56	27.56	50.43	54.00	3.57
7323.00	44.15	PK	H	34.12	5.69	27.26	56.70	74.00	17.30
7323.00	32.80	AV	H	34.12	5.69	27.26	45.35	54.00	8.65
High Channel: 2480 MHz									
2480.00	68.42	PK	H	24.96	3.38	0.00	96.76	N/A	N/A
2480.00	57.07	AV	H	24.96	3.38	0.00	85.41	N/A	N/A
2480.00	66.50	PK	V	24.96	3.38	0.00	94.84	N/A	N/A
2480.00	56.02	AV	V	24.96	3.38	0.00	84.36	N/A	N/A
2483.50	31.87	PK	H	24.97	3.38	0.00	60.22	74.00	13.78
2483.50	20.60	AV	H	24.97	3.38	0.00	48.95	54.00	5.05
4960.00	54.72	PK	H	30.02	4.58	27.37	61.95	74.00	12.05
4960.00	43.61	AV	H	30.02	4.58	27.37	50.84	54.00	3.16
7440.00	43.91	PK	H	34.30	5.79	27.22	56.78	74.00	17.22
7440.00	31.49	AV	H	34.30	5.79	27.22	44.36	54.00	9.64

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

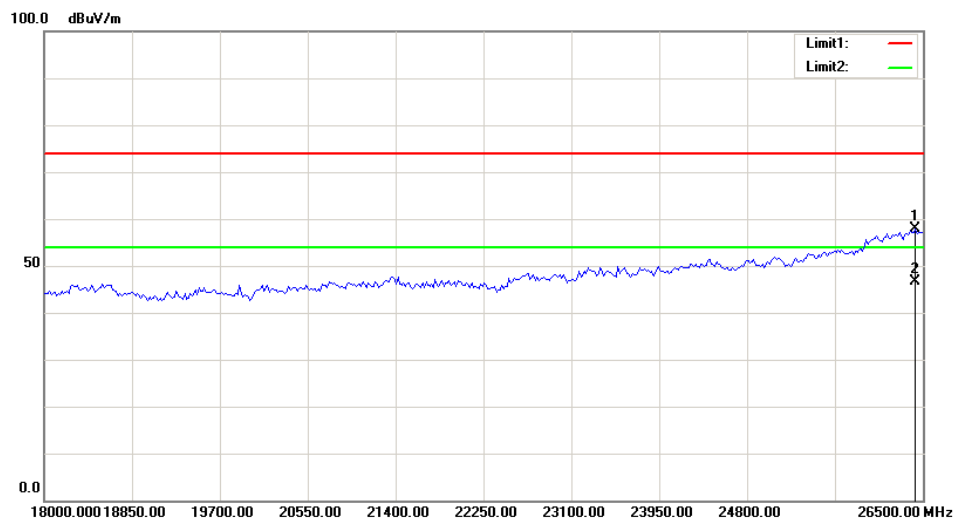
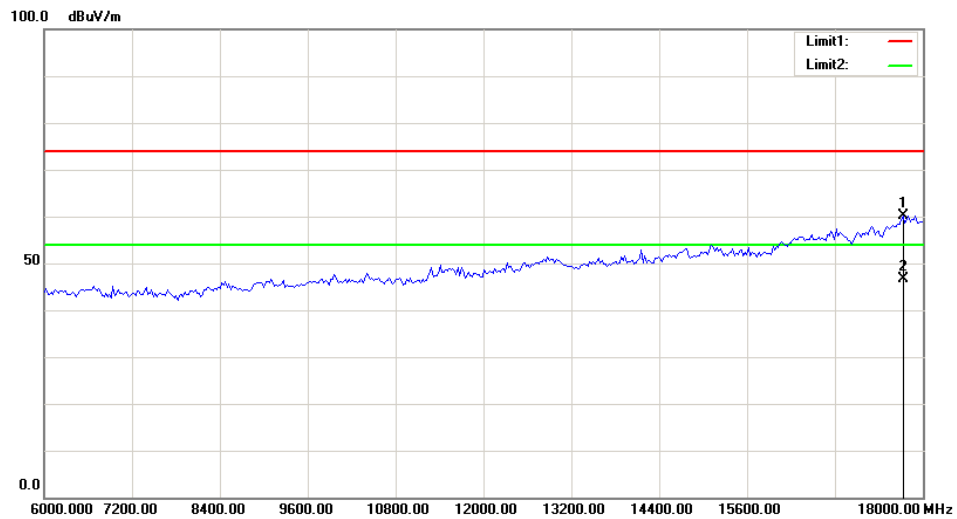
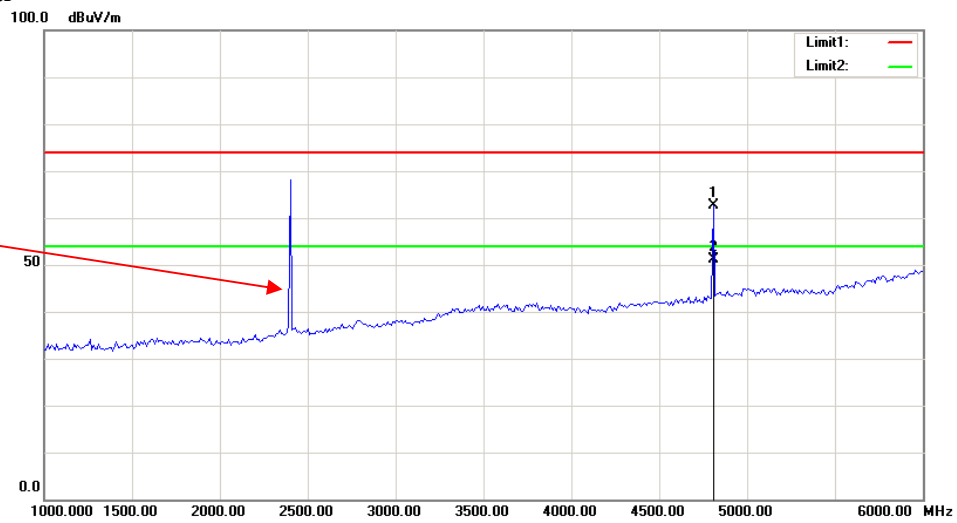
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Measurement	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	67.61	PK	H	24.82	3.34	0.00	95.77	N/A	N/A
2402.00	56.62	AV	H	24.82	3.34	0.00	84.78	N/A	N/A
2402.00	65.40	PK	V	24.82	3.34	0.00	93.56	N/A	N/A
2402.00	54.81	AV	V	24.82	3.34	0.00	82.97	N/A	N/A
2390.00	23.77	PK	H	24.80	3.33	0.00	51.90	74.00	22.10
2390.00	11.19	AV	H	24.80	3.33	0.00	39.32	54.00	14.68
4804.00	51.82	PK	H	29.71	4.58	27.36	58.75	74.00	15.25
4804.00	40.34	AV	H	29.71	4.58	27.36	47.27	54.00	6.73
7206.00	43.96	PK	H	33.93	5.59	27.19	56.29	74.00	17.71
7206.00	32.89	AV	H	33.93	5.59	27.19	45.22	54.00	8.78
Middle Channel: 2441 MHz									
2441.00	67.35	PK	H	24.89	3.36	0.00	95.60	N/A	N/A
2441.00	55.65	AV	H	24.89	3.36	0.00	83.90	N/A	N/A
2441.00	65.25	PK	V	24.89	3.36	0.00	93.50	N/A	N/A
2441.00	55.24	AV	V	24.89	3.36	0.00	83.49	N/A	N/A
4882.00	52.42	PK	H	29.86	4.56	27.56	59.28	74.00	14.72
4882.00	41.54	AV	H	29.86	4.56	27.56	48.40	54.00	5.60
7323.00	44.26	PK	H	34.12	5.69	27.26	56.81	74.00	17.19
7323.00	32.87	AV	H	34.12	5.69	27.26	45.42	54.00	8.58
High Channel: 2480 MHz									
2480.00	67.52	PK	H	24.96	3.38	0.00	95.86	N/A	N/A
2480.00	56.19	AV	H	24.96	3.38	0.00	84.53	N/A	N/A
2480.00	65.25	PK	V	24.96	3.38	0.00	93.59	N/A	N/A
2480.00	54.40	AV	V	24.96	3.38	0.00	82.74	N/A	N/A
2483.50	30.50	PK	H	24.97	3.38	0.00	58.85	74.00	15.15
2483.50	18.81	AV	H	24.97	3.38	0.00	47.16	54.00	6.84
4960.00	51.38	PK	H	30.02	4.58	27.37	58.61	74.00	15.39
4960.00	40.58	AV	H	30.02	4.58	27.37	47.81	54.00	6.19
7440.00	45.18	PK	H	34.30	5.79	27.22	58.05	74.00	15.95
7440.00	31.50	AV	H	34.30	5.79	27.22	44.37	54.00	9.63

EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Measurement	Polar (H/V)	Factor (dB/m)					
Low Channel: 2402 MHz									
2402.00	67.65	PK	H	24.82	3.34	0.00	95.81	N/A	N/A
2402.00	56.84	AV	H	24.82	3.34	0.00	85.00	N/A	N/A
2402.00	65.73	PK	V	24.82	3.34	0.00	93.89	N/A	N/A
2402.00	53.78	AV	V	24.82	3.34	0.00	81.94	N/A	N/A
2390.00	23.31	PK	H	24.80	3.33	0.00	51.44	74.00	22.56
2390.00	11.14	AV	H	24.80	3.33	0.00	39.27	54.00	14.73
4804.00	52.45	PK	H	29.71	4.58	27.36	59.38	74.00	14.62
4804.00	41.73	AV	H	29.71	4.58	27.36	48.66	54.00	5.34
7206.00	44.31	PK	H	33.93	5.59	27.19	56.64	74.00	17.36
7206.00	33.69	AV	H	33.93	5.59	27.19	46.02	54.00	7.98
Middle Channel: 2441 MHz									
2441.00	67.22	PK	H	24.89	3.36	0.00	95.47	N/A	N/A
2441.00	55.88	AV	H	24.89	3.36	0.00	84.13	N/A	N/A
2441.00	65.25	PK	V	24.89	3.36	0.00	93.50	N/A	N/A
2441.00	53.23	AV	V	24.89	3.36	0.00	81.48	N/A	N/A
4882.00	53.24	PK	H	29.86	4.56	27.56	60.10	74.00	13.90
4882.00	42.65	AV	H	29.86	4.56	27.56	49.51	54.00	4.49
7323.00	43.45	PK	H	34.12	5.69	27.26	56.00	74.00	18.00
7323.00	32.84	AV	H	34.12	5.69	27.26	45.39	54.00	8.61
High Channel: 2480 MHz									
2480.00	67.79	PK	H	24.96	3.38	0.00	96.13	N/A	N/A
2480.00	56.16	AV	H	24.96	3.38	0.00	84.50	N/A	N/A
2480.00	65.34	PK	V	24.96	3.38	0.00	93.68	N/A	N/A
2480.00	54.15	AV	V	24.96	3.38	0.00	82.49	N/A	N/A
2483.50	30.64	PK	H	24.97	3.38	0.00	58.99	74.00	15.01
2483.50	18.60	AV	H	24.97	3.38	0.00	46.95	54.00	7.05
4960.00	53.12	PK	H	30.02	4.58	27.37	60.35	74.00	13.65
4960.00	42.82	AV	H	30.02	4.58	27.37	50.05	54.00	3.95
7440.00	45.13	PK	H	34.30	5.79	27.22	58.00	74.00	16.00
7440.00	33.19	AV	H	34.30	5.79	27.22	46.06	54.00	7.94

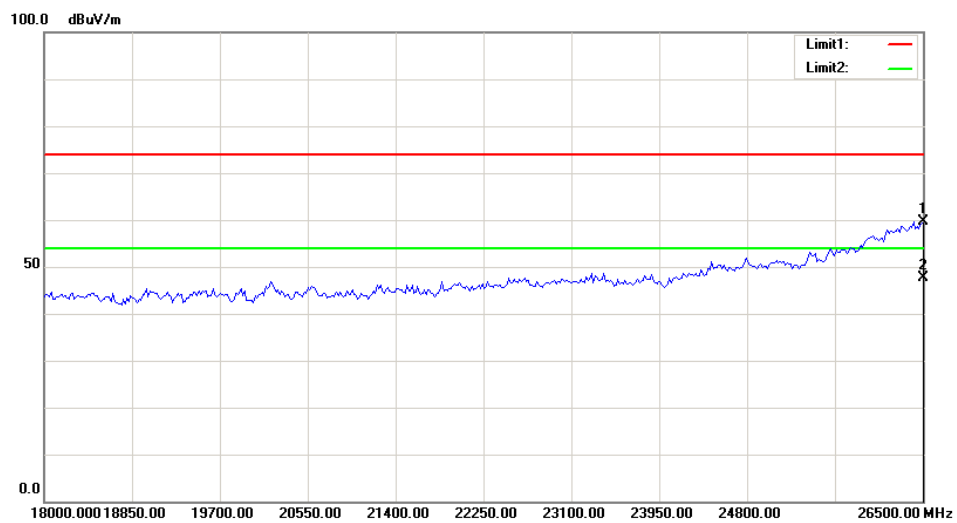
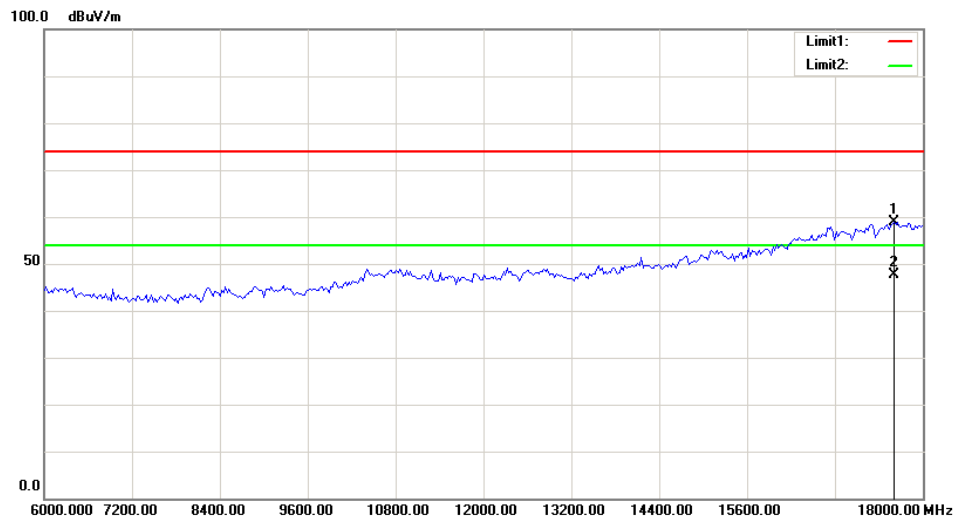
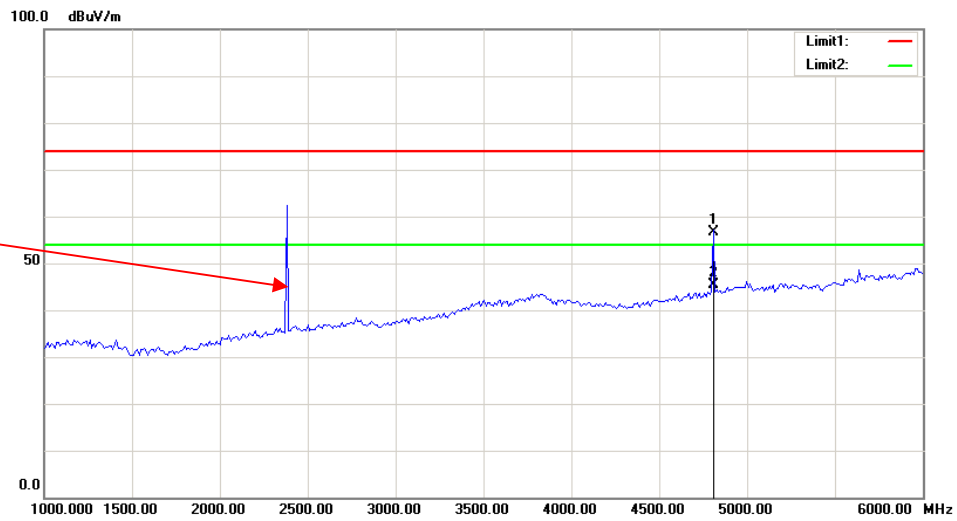
Worst plots (GFSK High channel) **Horizontal**

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	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
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:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.1 kPa

* The testing was performed by Harry Yang on 2018-08-18.

Test Result: Compliance.

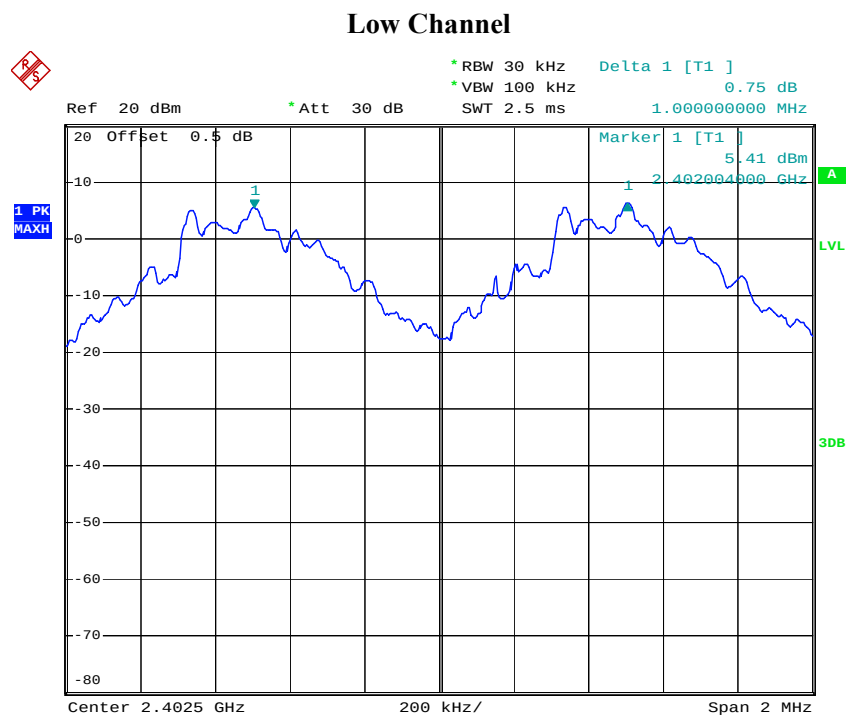
Please refer to following tables and plots

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
BDR (GFSK)	Low	2402	1.000	0.59
	Middle	2441	1.008	0.58
	High	2480	1.004	0.58
EDR ($\pi/4$ -DQPSK)	Low	2402	1.000	0.81
	Middle	2441	1.000	0.81
	High	2480	1.000	0.81
EDR (8-DPSK)	Low	2402	1.000	0.81
	Middle	2441	1.000	0.81
	High	2480	0.996	0.81

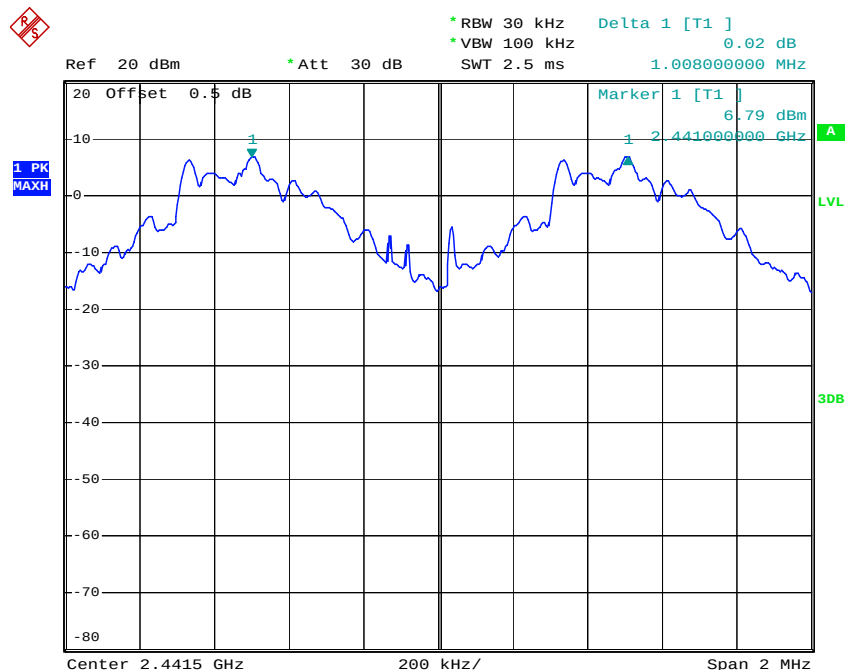
Note: Limit= $(2/3) \times 20\text{dB bandwidth}$

BDR Mode (GFSK):



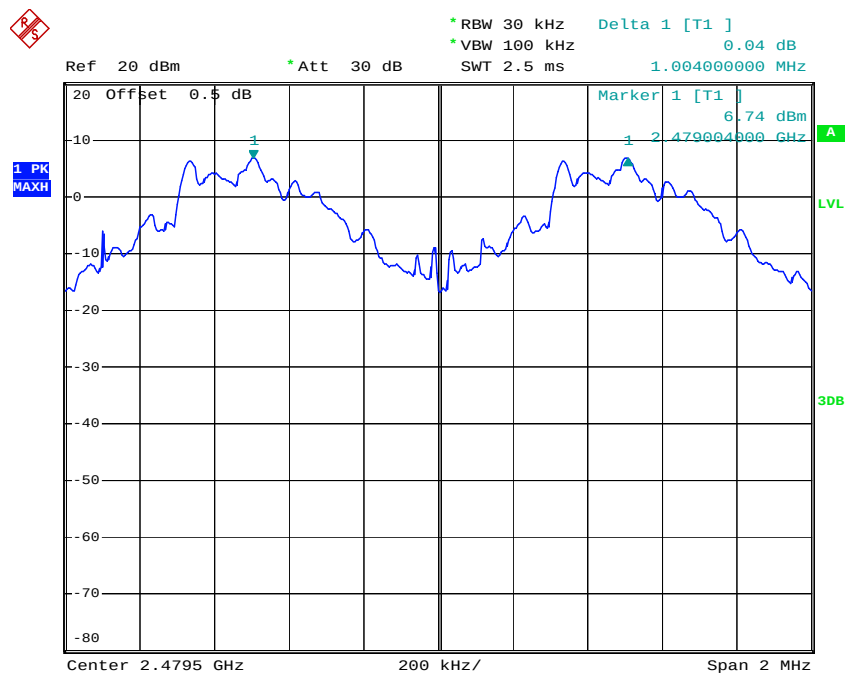
Date: 18.AUG.2018 13:03:29

Middle Channel



Date: 18.AUG.2018 13:04:04

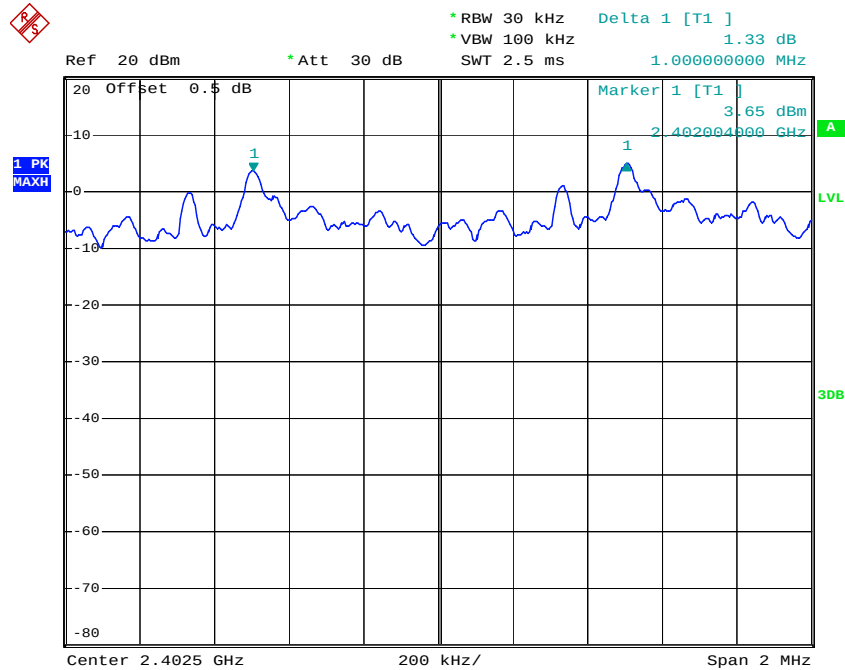
High Channel



Date: 18.AUG.2018 13:04:42

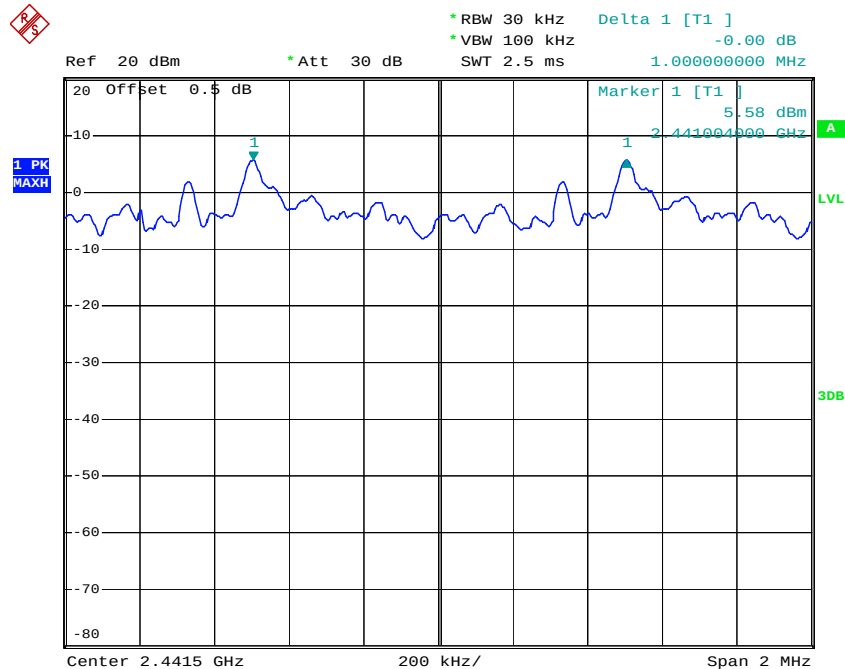
EDR Mode ($\pi/4$ -DQPSK):

Low Channel



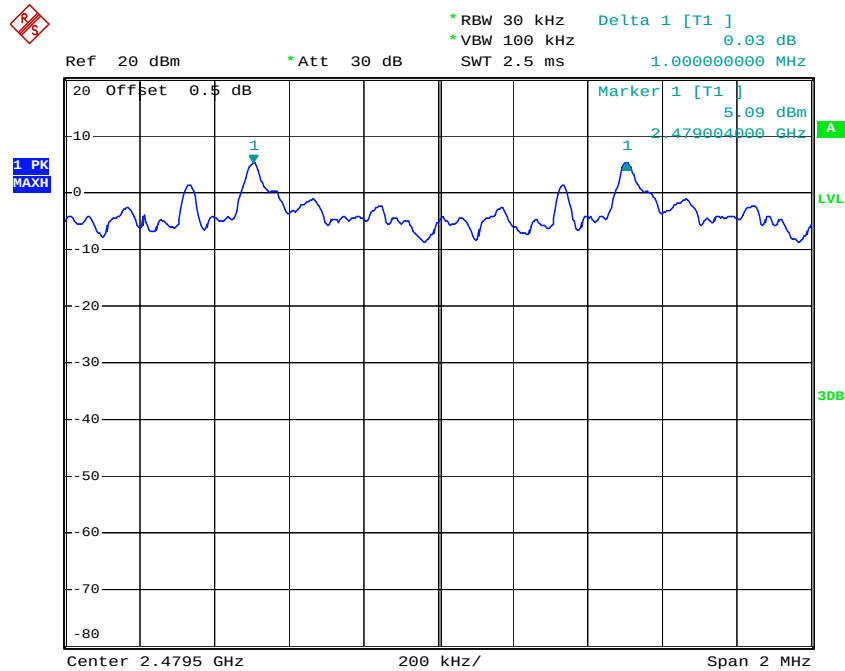
Date: 18.AUG.2018 13:06:44

Middle Channel



Date: 18.AUG.2018 13:06:00

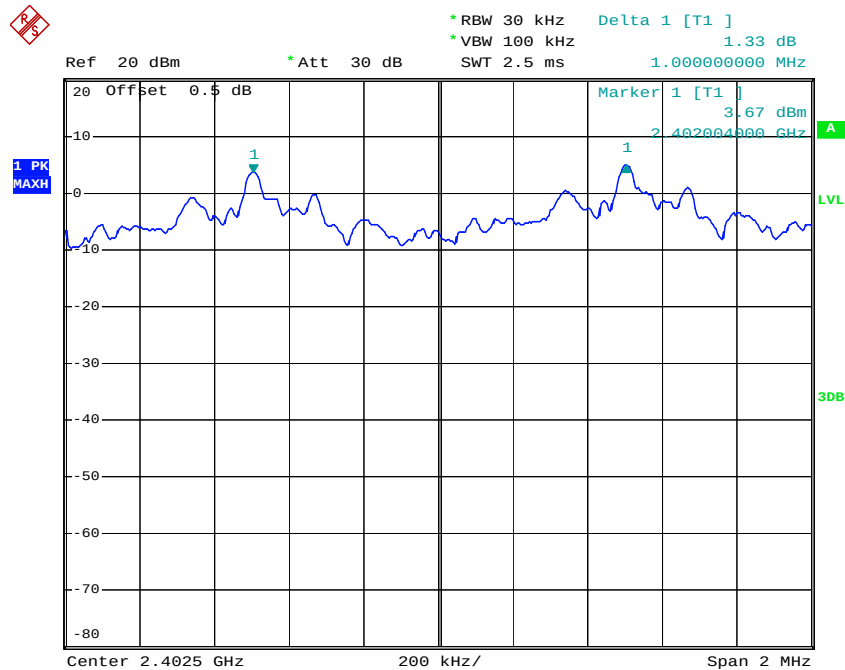
High Channel



Date: 18.AUG.2018 13:05:26

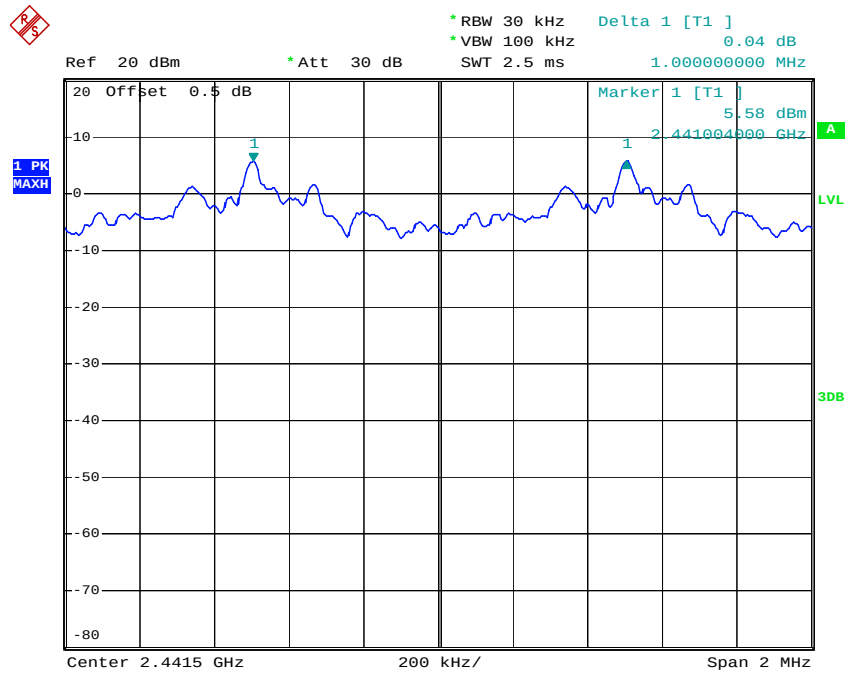
EDR Mode (8DPSK):

Low Channel



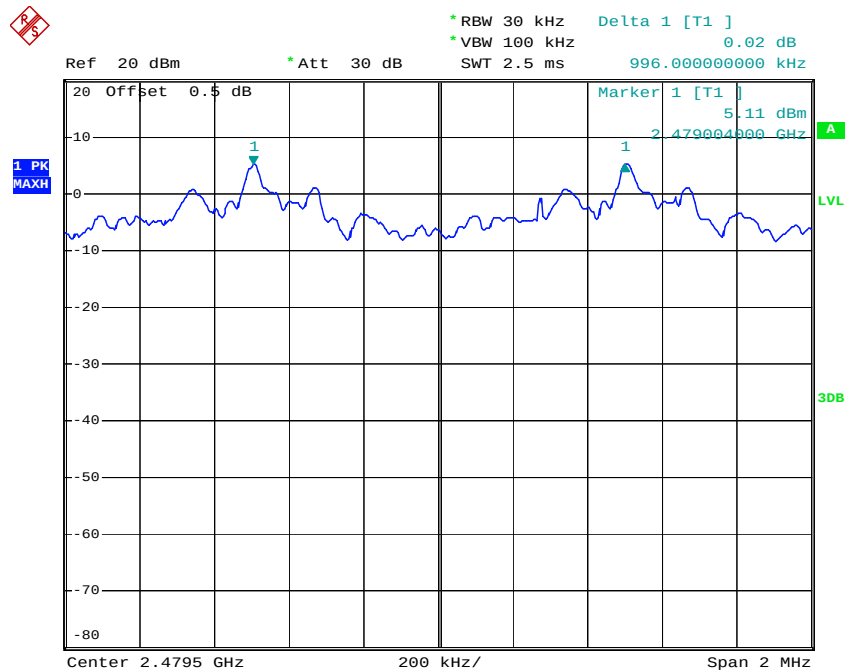
Date: 18.AUG.2018 13:07:31

Middle Channel



Date: 18.AUG.2018 13:08:05

High Channel



Date: 18.AUG.2018 13:08:46

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	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
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:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.1 kPa

* The testing was performed by Harry Yang on 2018-08-18.

Test Result: Compliance.

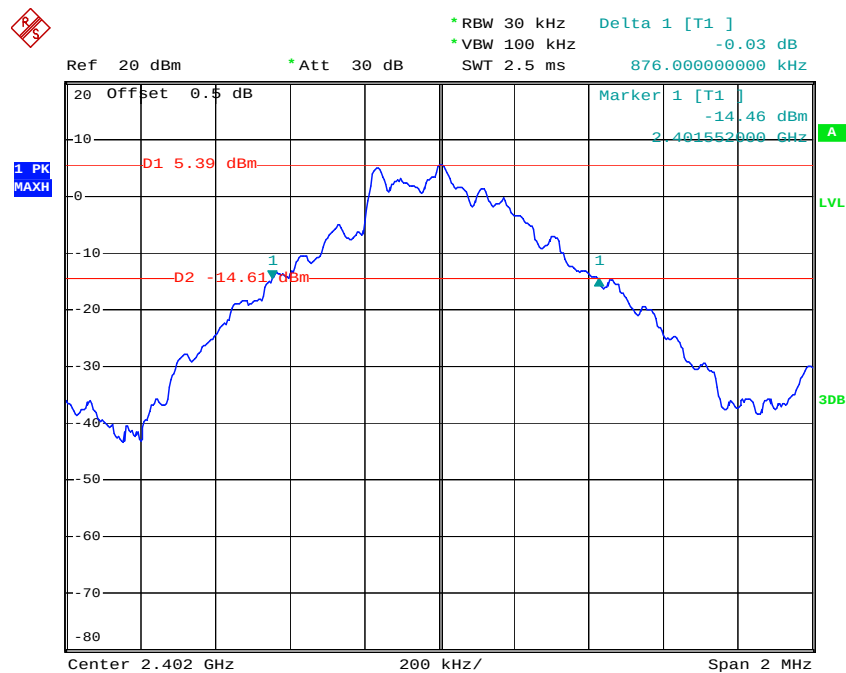
Please refer to following tables and plots

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.88
	Middle	2441	0.87
	High	2480	0.87
EDR Mode ($\pi/4$ -DQPSK)	Low	2402	1.22
	Middle	2441	1.22
	High	2480	1.22
EDR Mode (8DPSK)	Low	2402	1.21
	Middle	2441	1.21
	High	2480	1.21

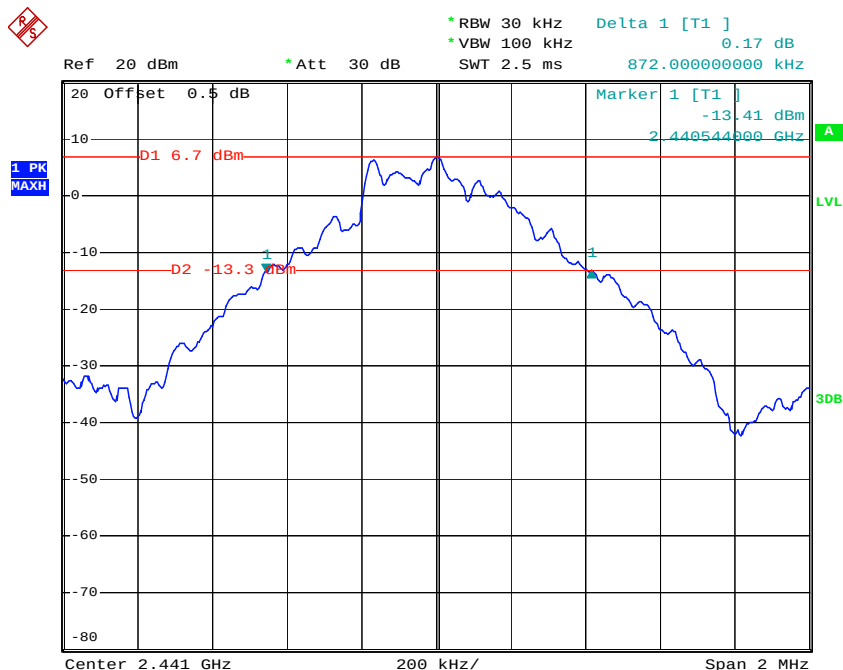
BDR Mode (GFSK):

Low Channel



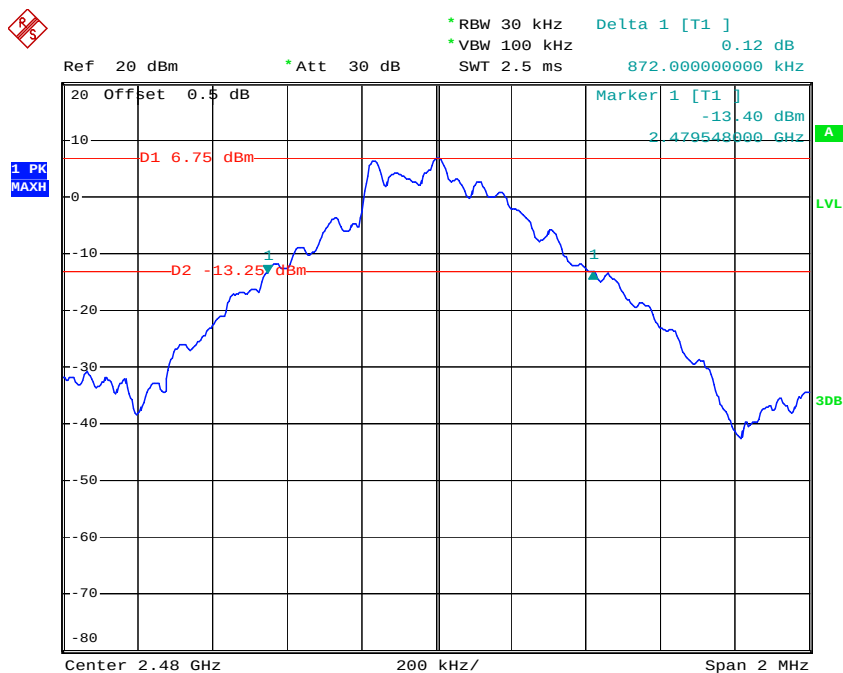
Date: 18.AUG.2018 10:53:25

Middle Channel



Date: 18.AUG.2018 10:56:32

High Channel



Date: 18.AUG.2018 10:54:54

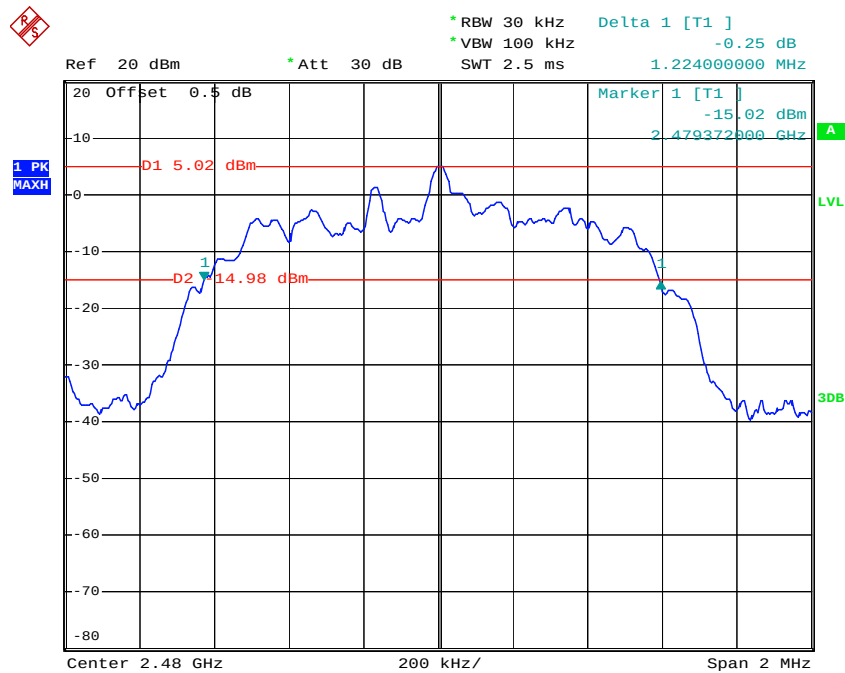
Low Channel

Date: 18.AUG.2018 10:58:56

Middle Channel

Date: 18.AUG.2018 10:57:51

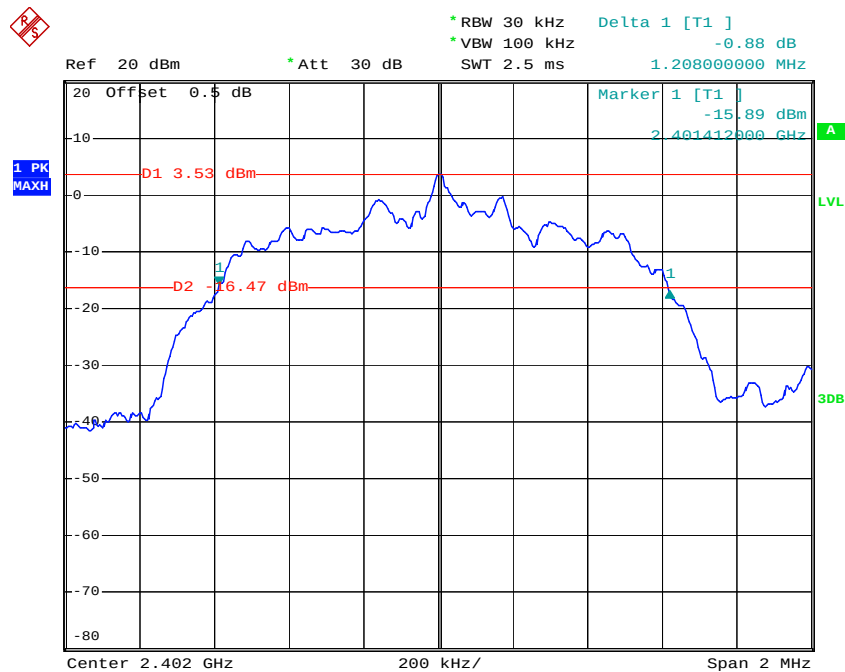
High Channel



Date: 18.AUG.2018 11:14:20

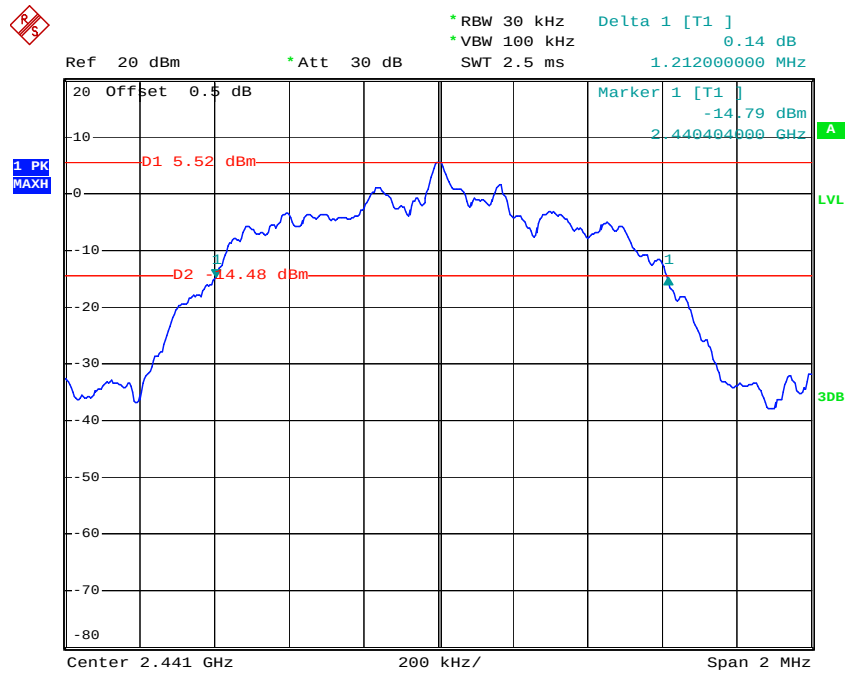
EDR Mode (8DPSK):

Low Channel



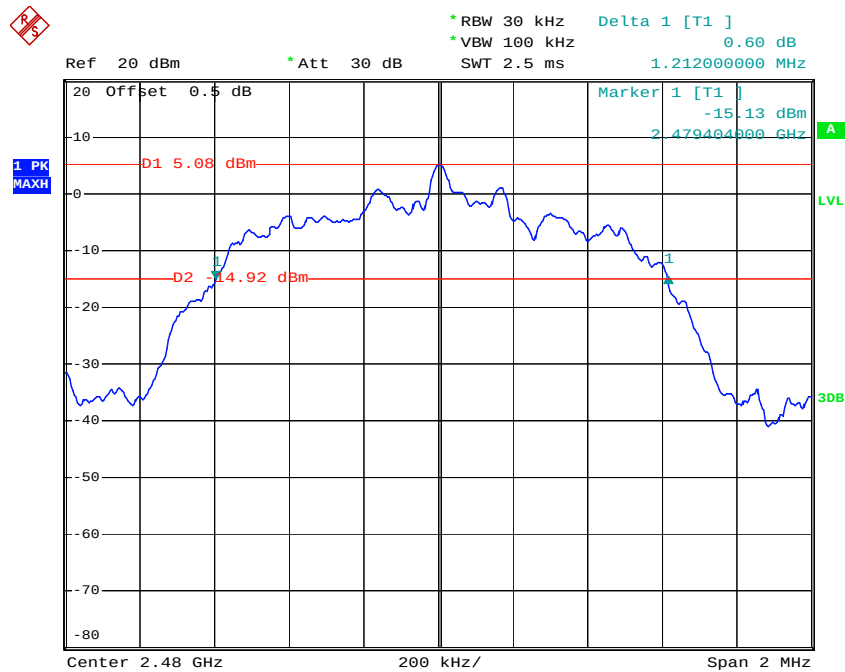
Date: 18.AUG.2018 11:01:07

Middle Channel



Date: 18.AUG.2018 11:10:44

High Channel



Date: 18.AUG.2018 11:08:01

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	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
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:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.1kPa

* The testing was performed by Harry Yang on 2018-08-18.

Test Result: Compliance.

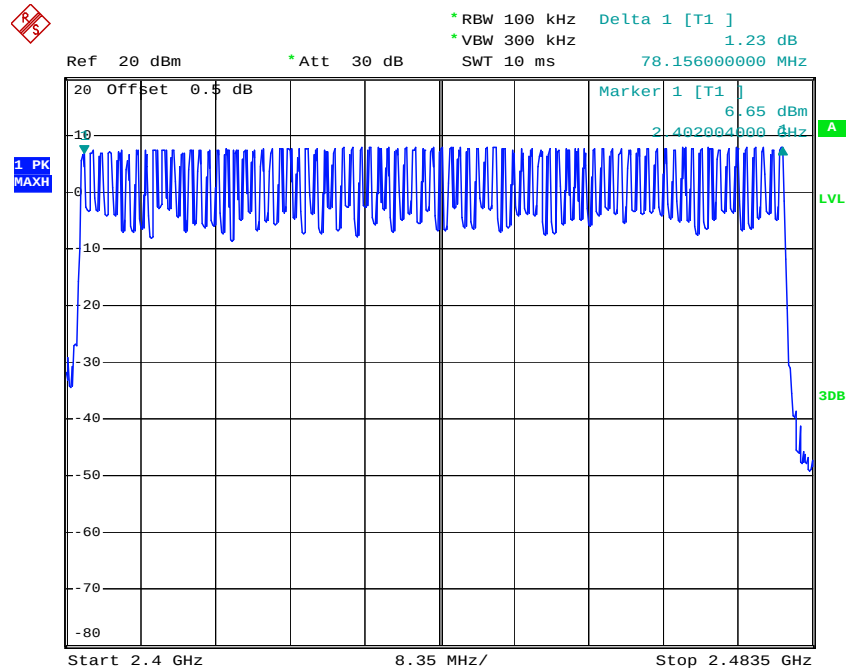
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

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

Number of Hopping Channels

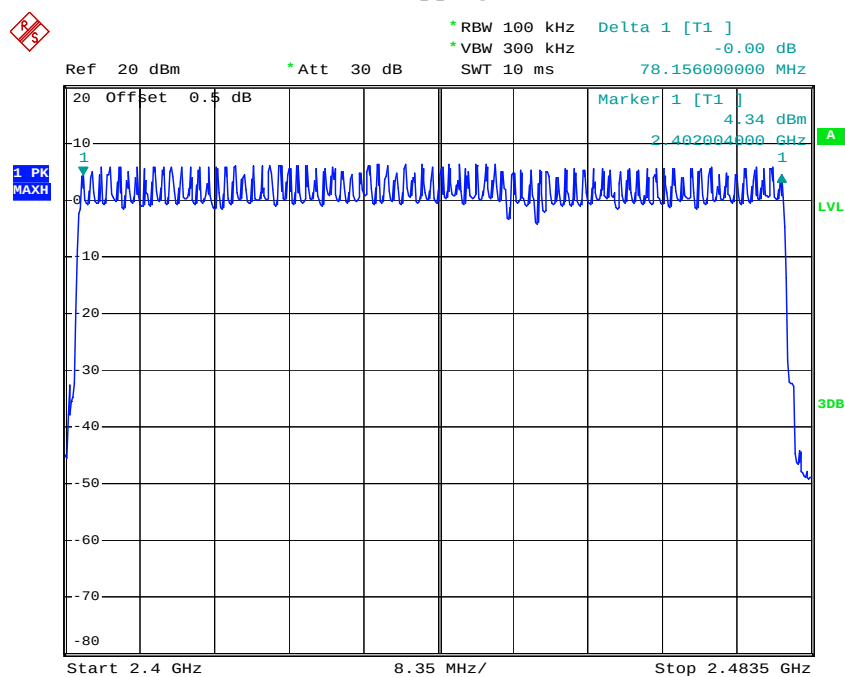


Date: 18.AUG.2018 11:37:46

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

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

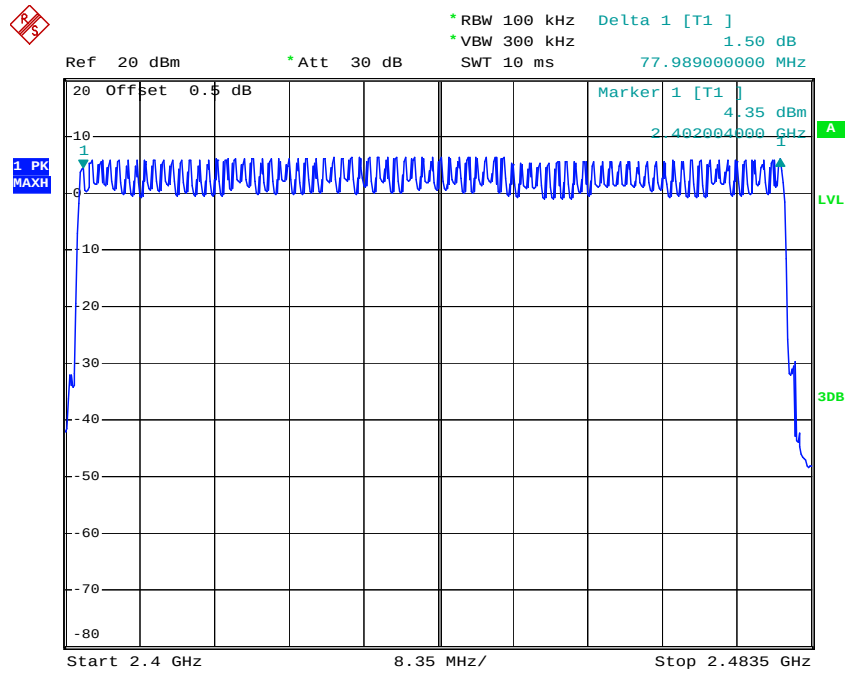
Number of Hopping Channels



Date: 18.AUG.2018 11:30:38

EDR Mode (8DPSK):

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

Number of Hopping Channels

Date: 18.AUG.2018 11:57:33

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	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
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:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.1 kPa

* The testing was performed by Harry Yang on 2018-08-18.

Test Result: Compliance.

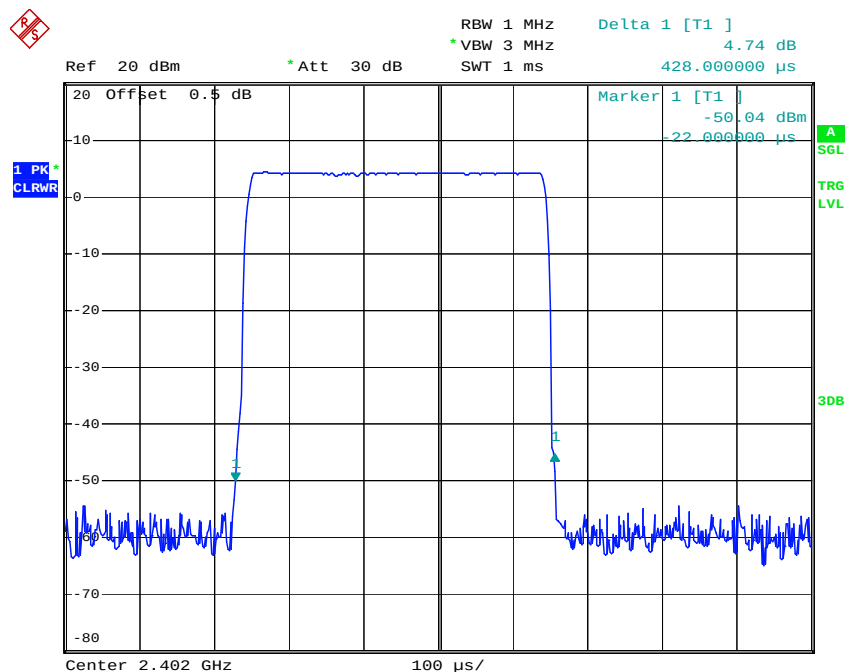
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

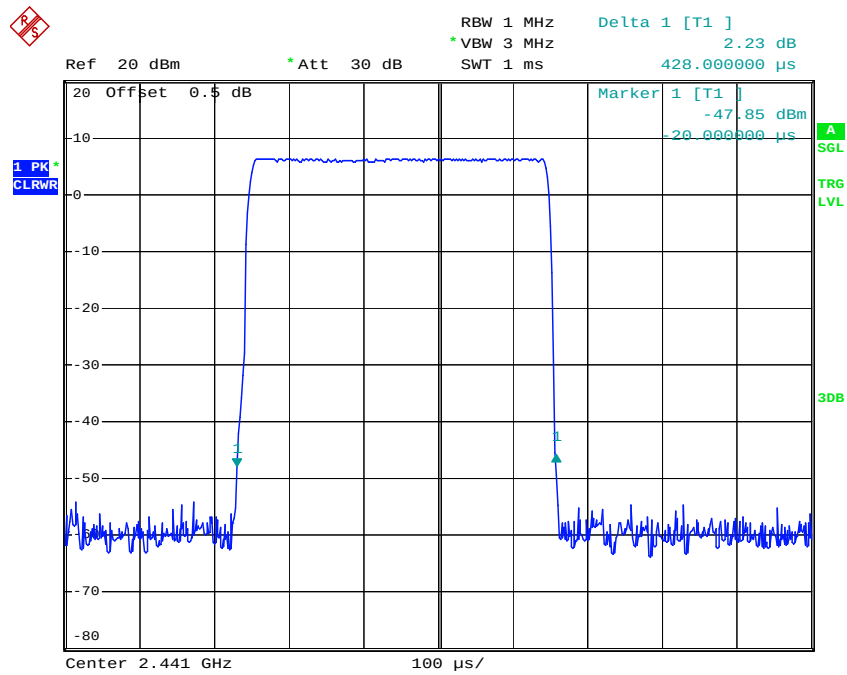
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.428	0.137	0.4	Compliance
	Middle	0.428	0.137	0.4	Compliance
	High	0.430	0.138	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
DH3	Low	1.692	0.271	0.4	Compliance
	Middle	1.698	0.272	0.4	Compliance
	High	1.698	0.272	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
DH5	Low	2.950	0.315	0.4	Compliance
	Middle	2.950	0.315	0.4	Compliance
	High	2.950	0.315	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

DH1: Low Channel



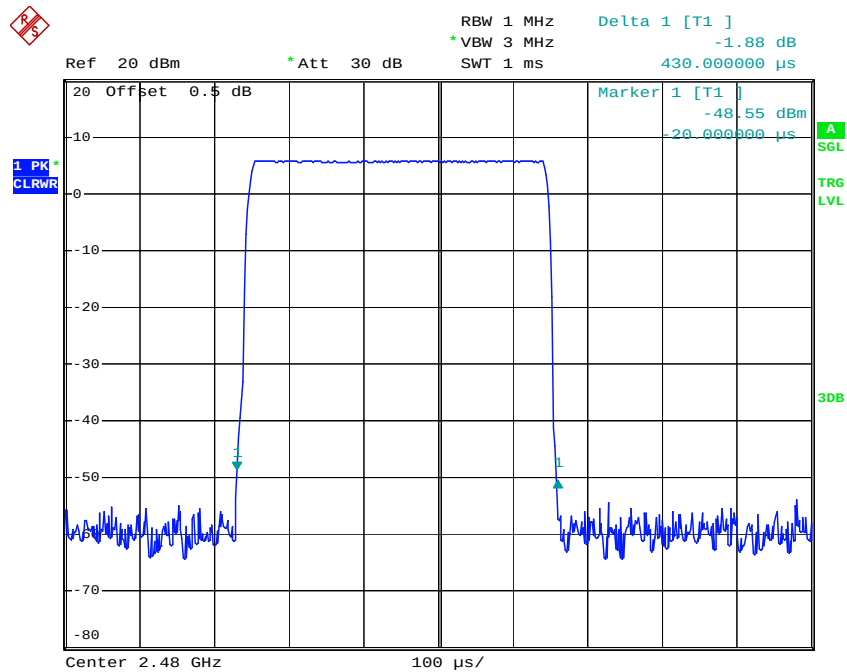
Date: 18.AUG.2018 13:28:25

DH1: Middle Channel



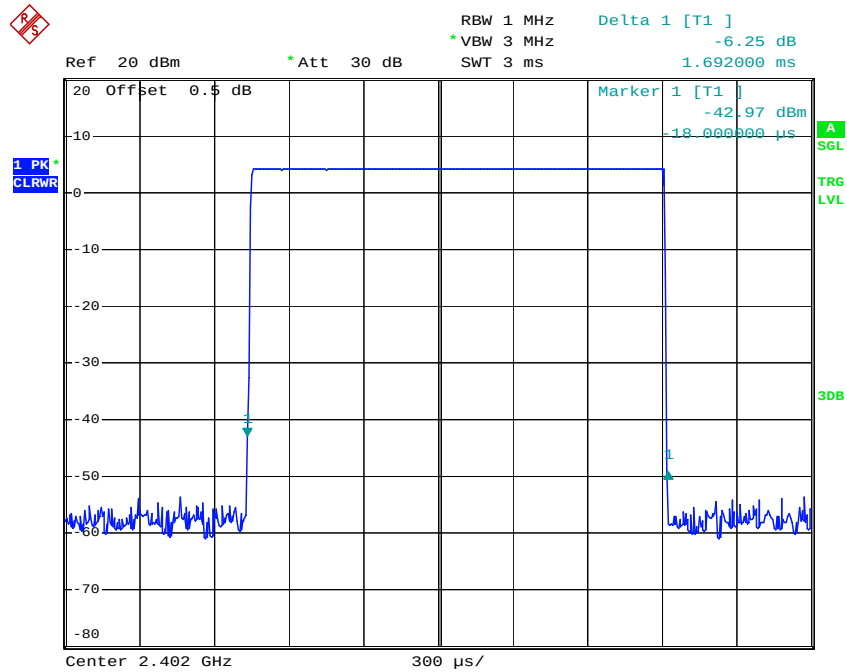
Date: 18.AUG.2018 13:28:30

DH1: High Channel



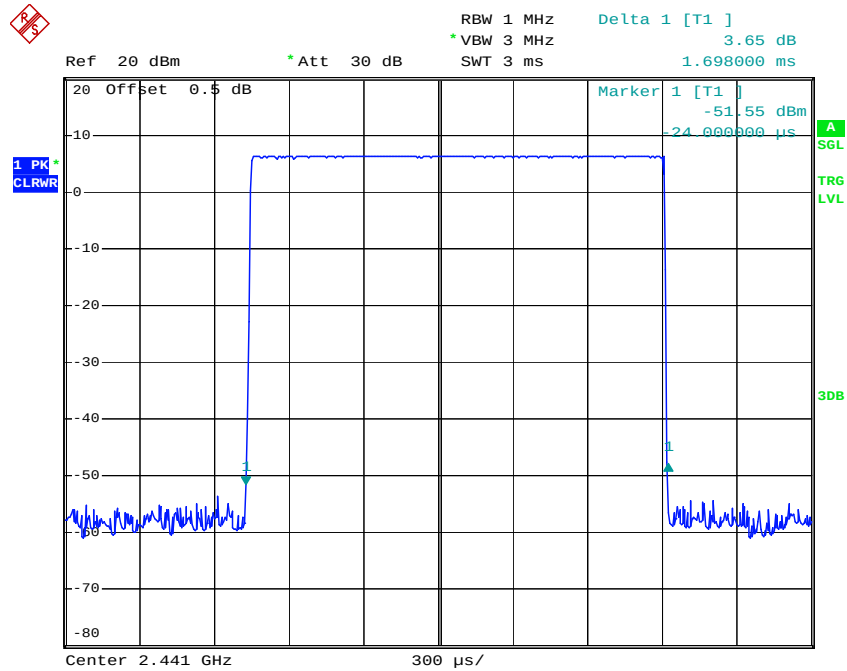
Date: 18.AUG.2018 13:28:34

DH3: Low Channel



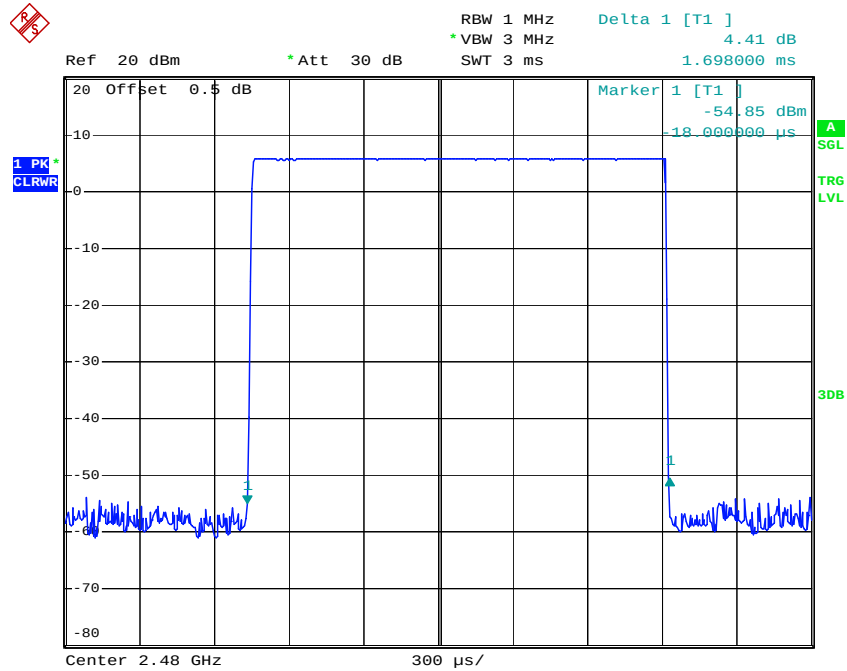
Date: 18.AUG.2018 13:28:53

DH3: Middle Channel



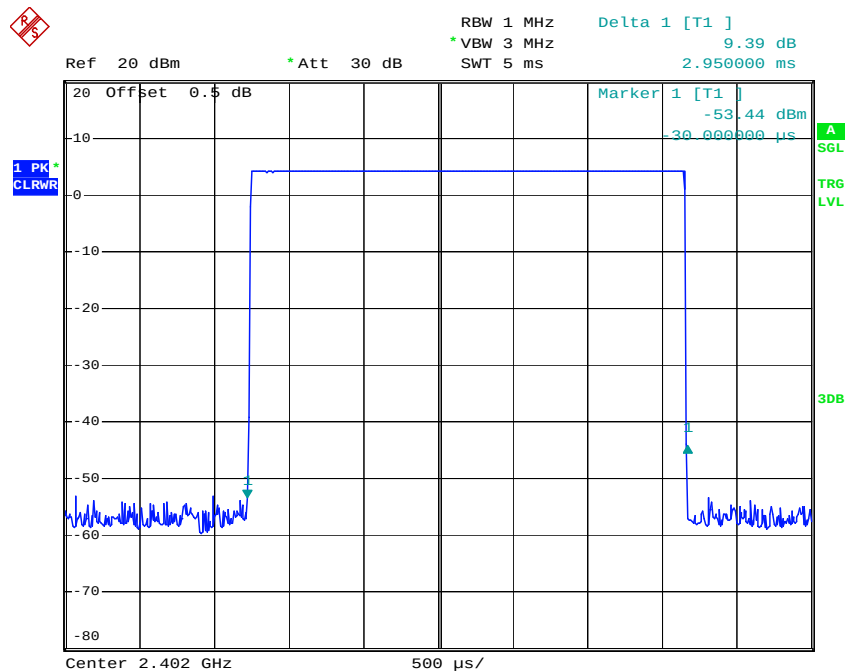
Date: 18.AUG.2018 13:28:57

DH3: High Channel



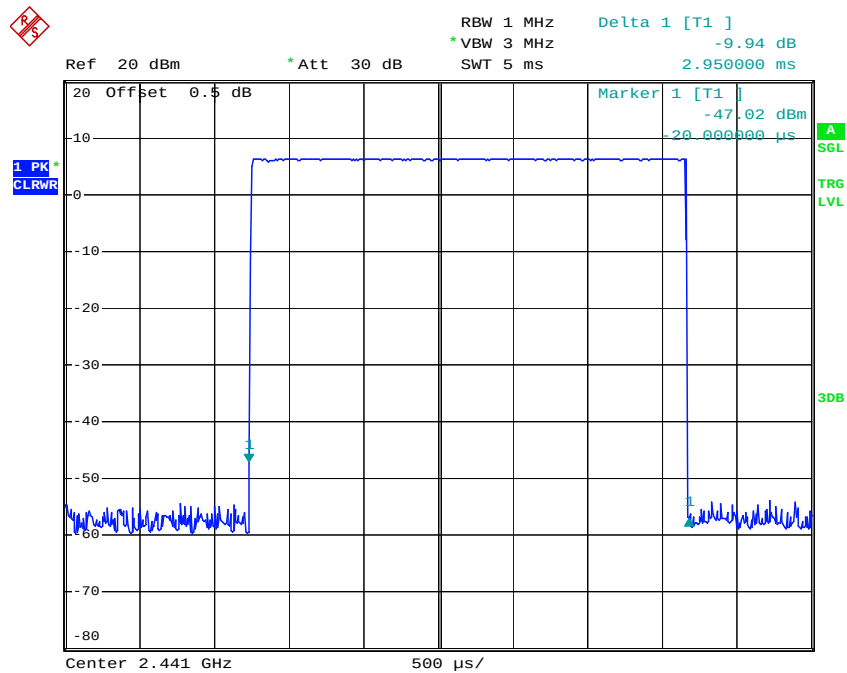
Date: 18.AUG.2018 13:29:05

DH5: Low Channel



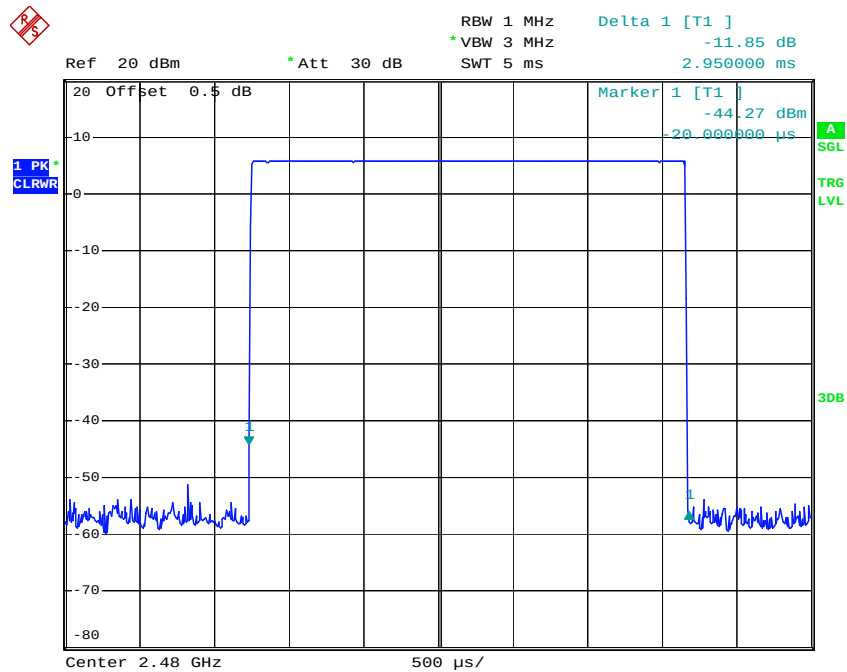
Date: 18.AUG.2018 13:29:24

DH5: Middle Channel



Date: 18.AUG.2018 13:29:29

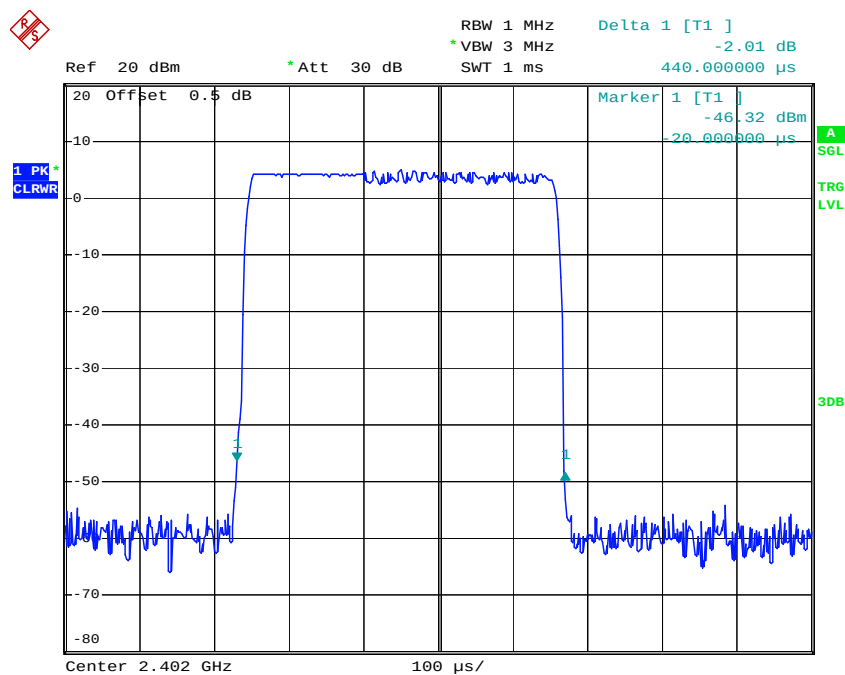
DH5: High Channel



Date: 18.AUG.2018 13:29:34

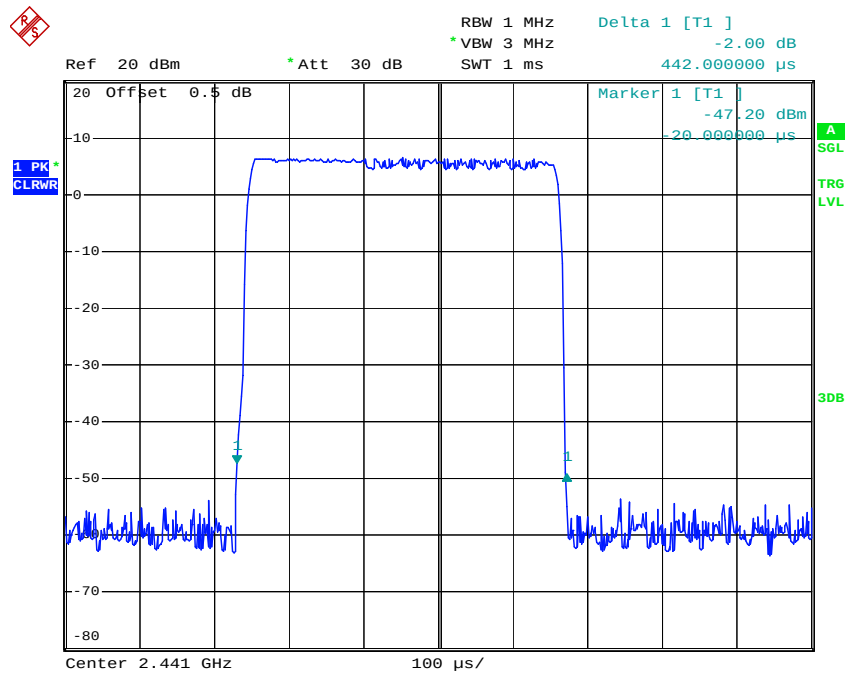
EDR Mode ($\pi/4$ -DQPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.440	0.141	0.4	Compliance
	Middle	0.442	0.141	0.4	Compliance
	High	0.442	0.141	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	1.710	0.274	0.4	Compliance
	High	1.710	0.274	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	2.970	0.317	0.4	Compliance
	High	2.970	0.317	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

2DH1: Low Channel

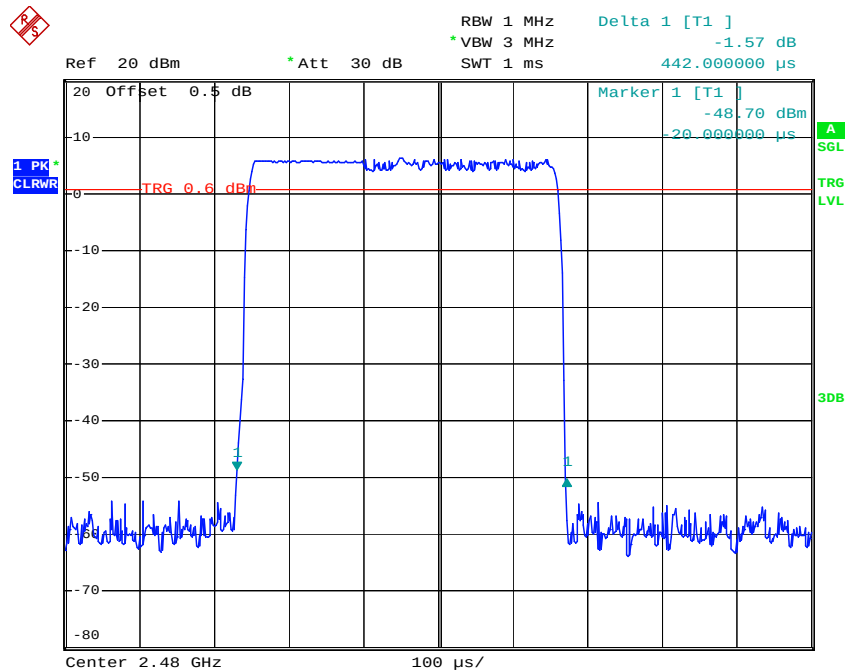
Date: 18.AUG.2018 13:27:26

2DH1: Middle Channel

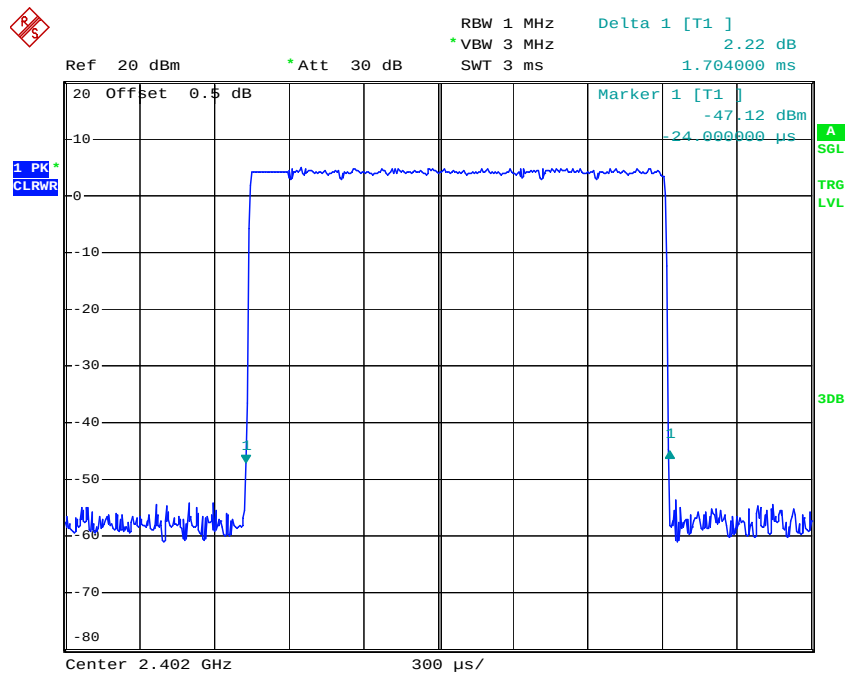


Date: 18.AUG.2018 13:27:30

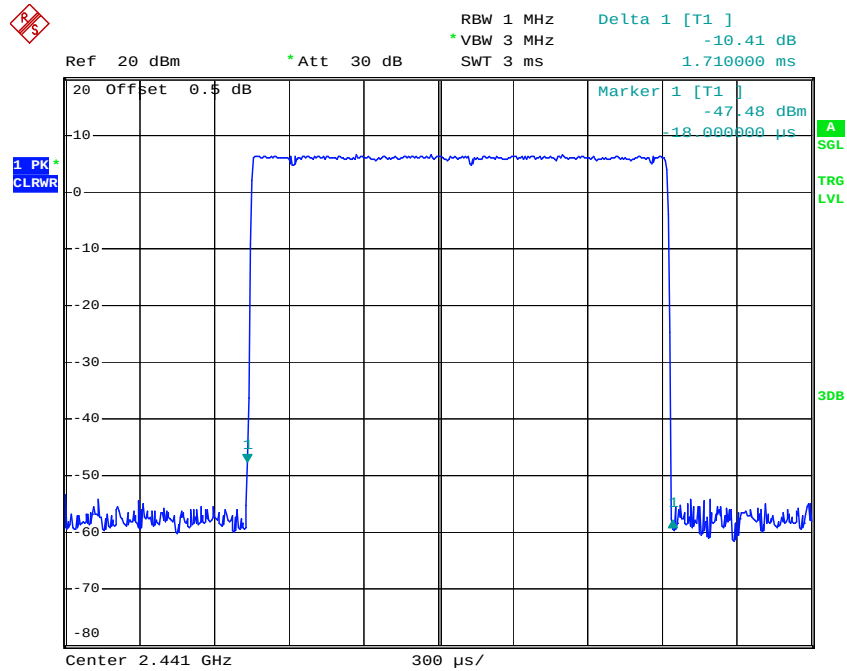
2DH1: High Channel



Date: 18.AUG.2018 13:27:59

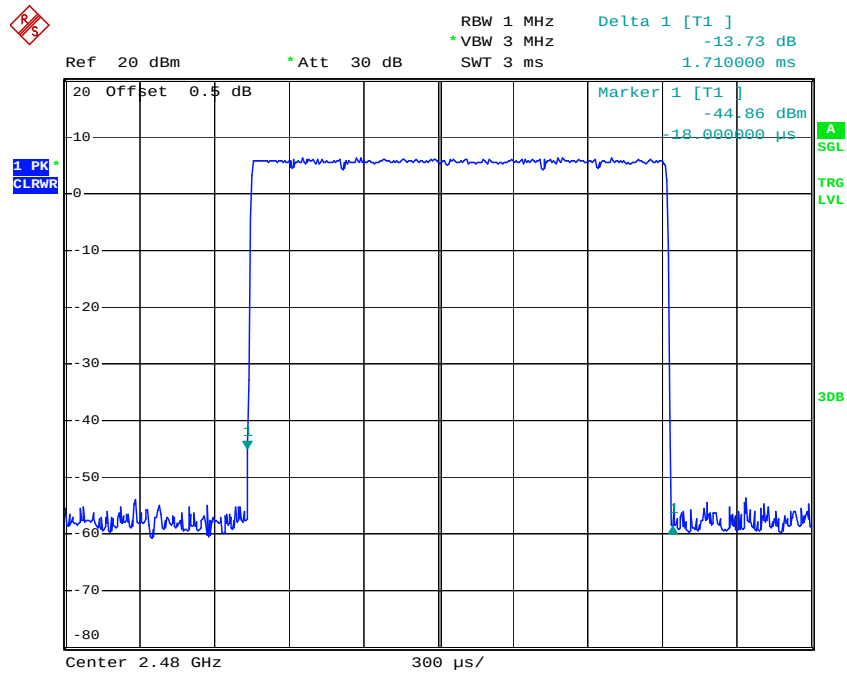
2DH3: Low Channel

Date: 18.AUG.2018 13:26:59

2DH3: Middle Channel

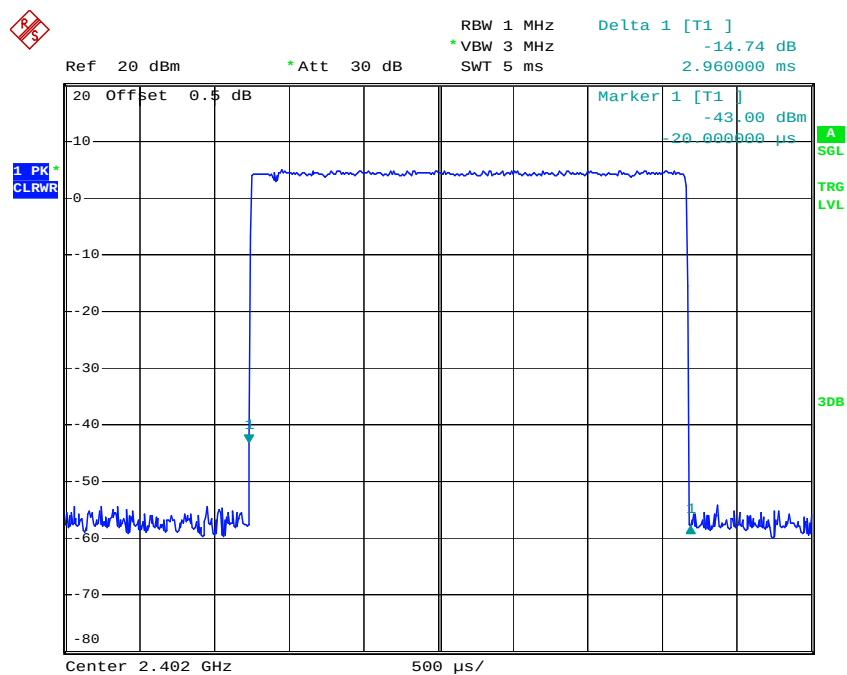
Date: 18.AUG.2018 13:27:03

2DH3: High Channel



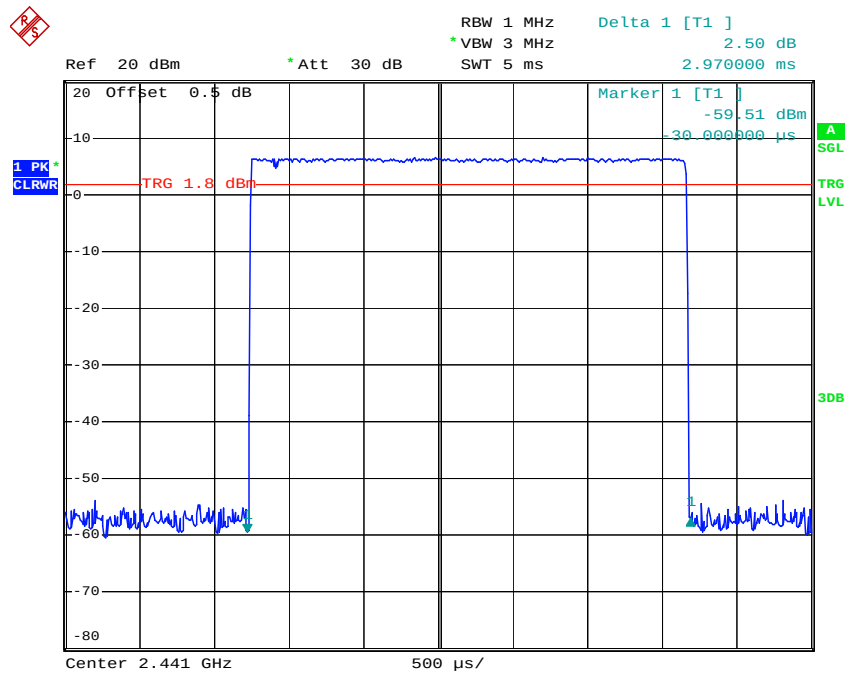
Date: 18.AUG.2018 13:27:06

2DH5: Low Channel



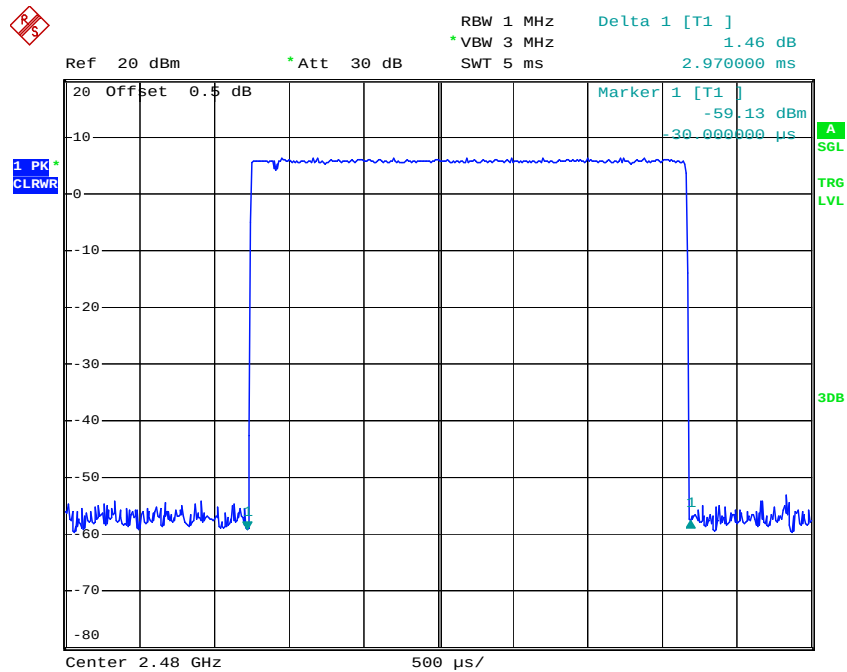
Date: 18.AUG.2018 13:21:17

2DH5: Middle Channel



Date: 18.AUG.2018 13:21:40

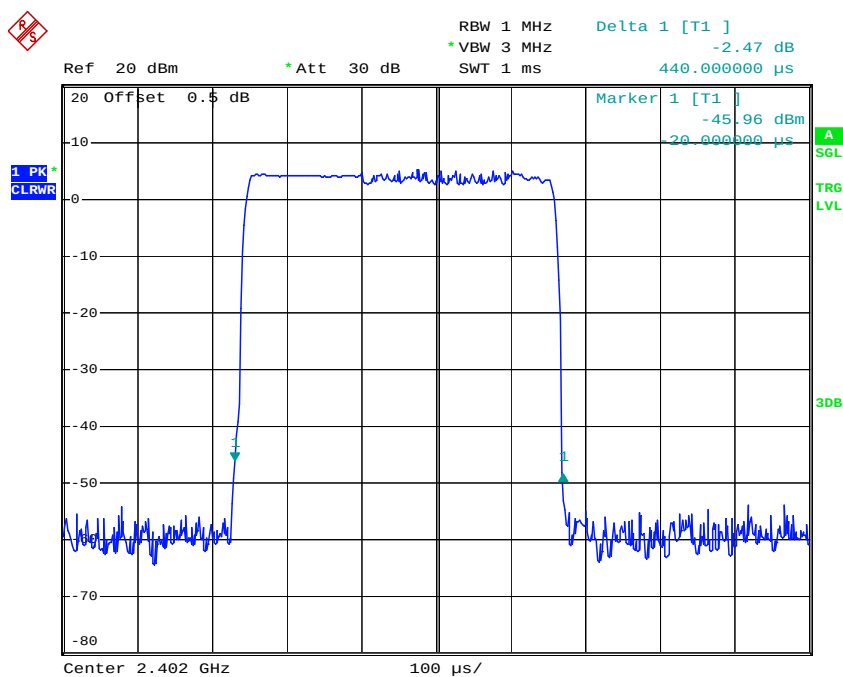
2DH5: High Channel



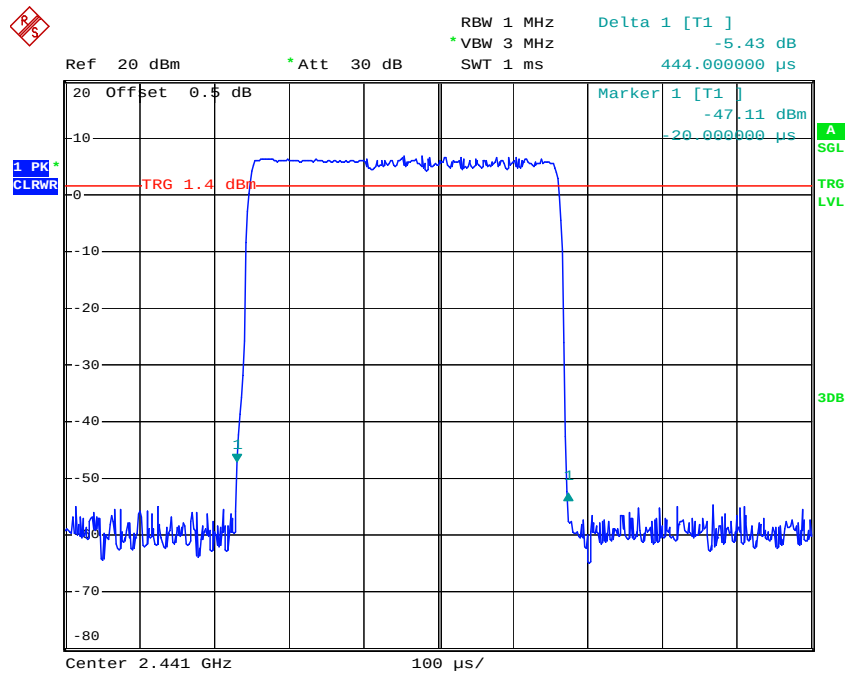
Date: 18.AUG.2018 13:22:03

EDR Mode (8DPSK):

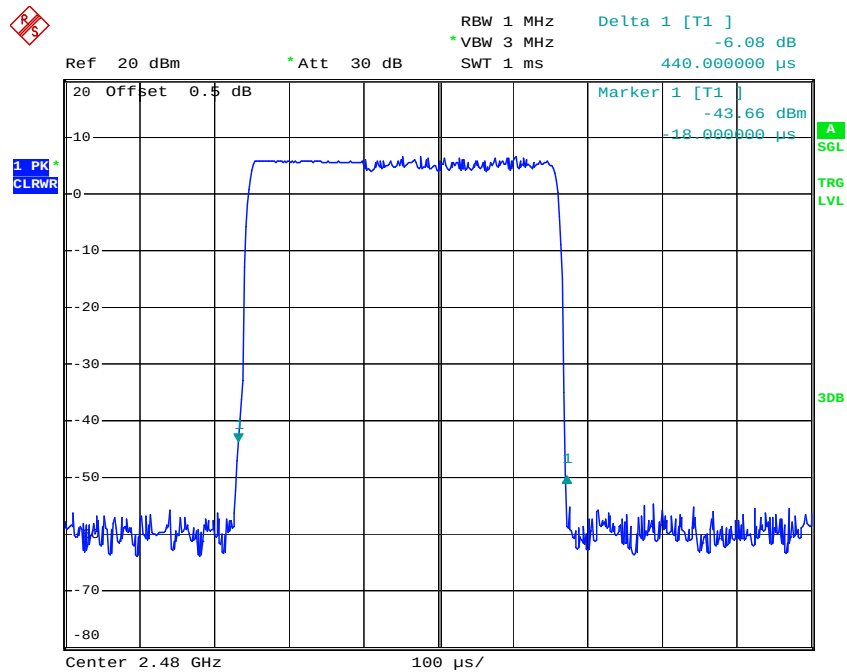
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
3DH1	Low	0.440	0.141	0.4	Compliance
	Middle	0.444	0.142	0.4	Compliance
	High	0.440	0.141	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/2/79) $\times$ 31.6 s				
3DH3	Low	1.704	0.273	0.4	Compliance
	Middle	1.716	0.275	0.4	Compliance
	High	1.710	0.274	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/4/79) $\times$ 31.6 s				
3DH5	Low	2.970	0.317	0.4	Compliance
	Middle	2.970	0.317	0.4	Compliance
	High	2.980	0.318	0.4	Compliance
	Note: Dwell time=Pulse time (ms) $\times$ (1600/6/79) $\times$ 31.6 s				

3DH1: Low Channel

Date: 18.AUG.2018 13:16:26

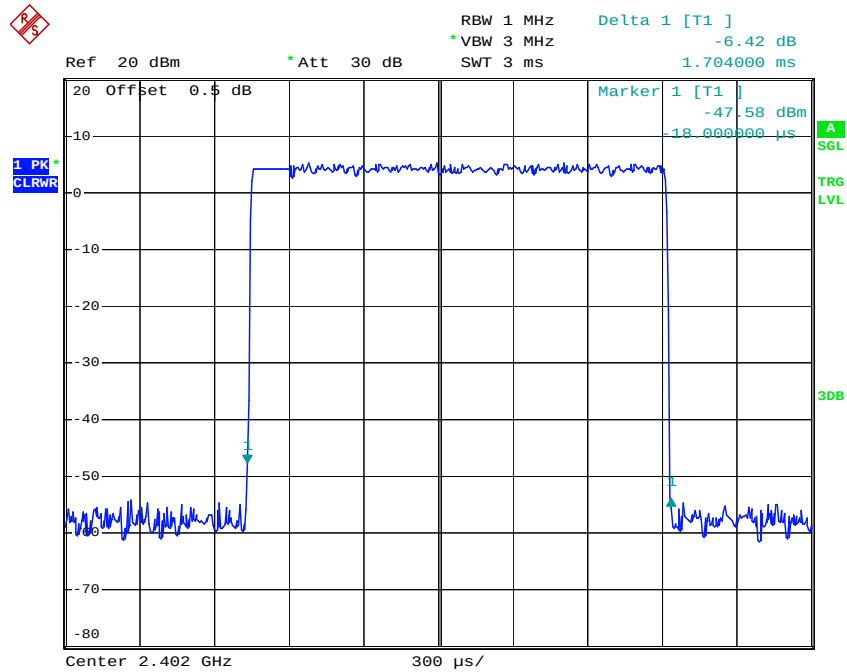
3DH1: Middle Channel

Date: 18.AUG.2018 13:17:09

3DH1: High Channel

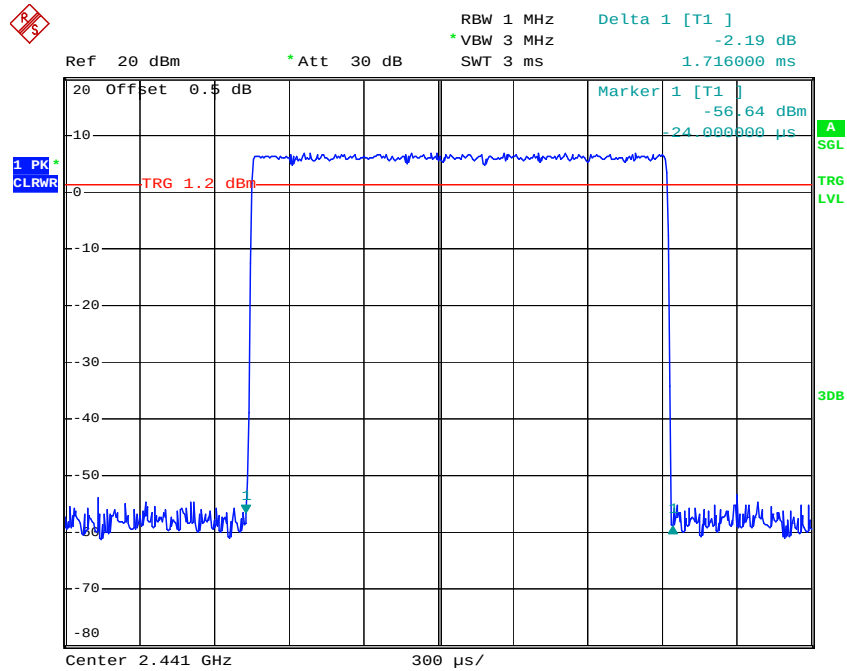
Date: 18.AUG.2018 13:17:13

3DH3: Low Channel



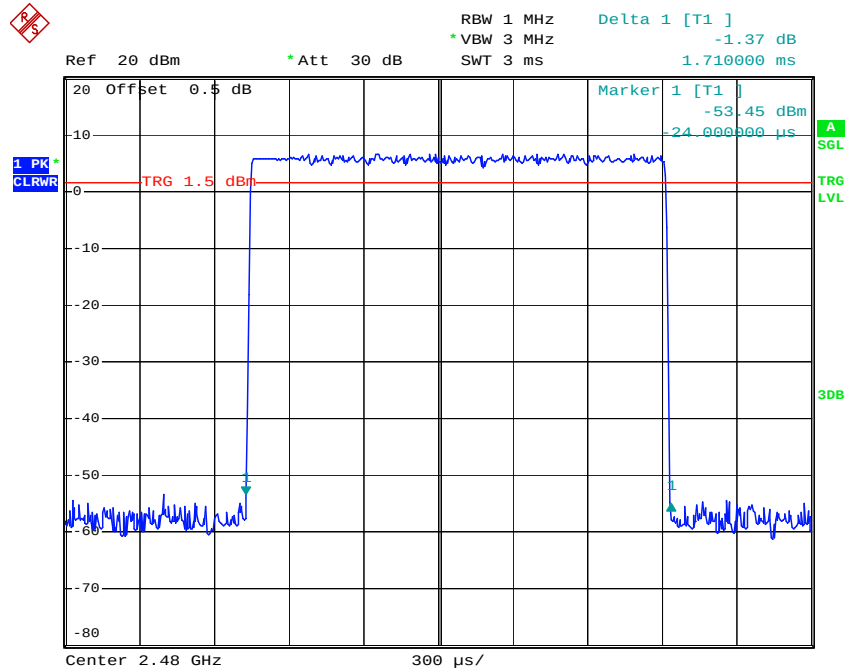
Date: 18.AUG.2018 13:17:49

3DH3: Middle Channel



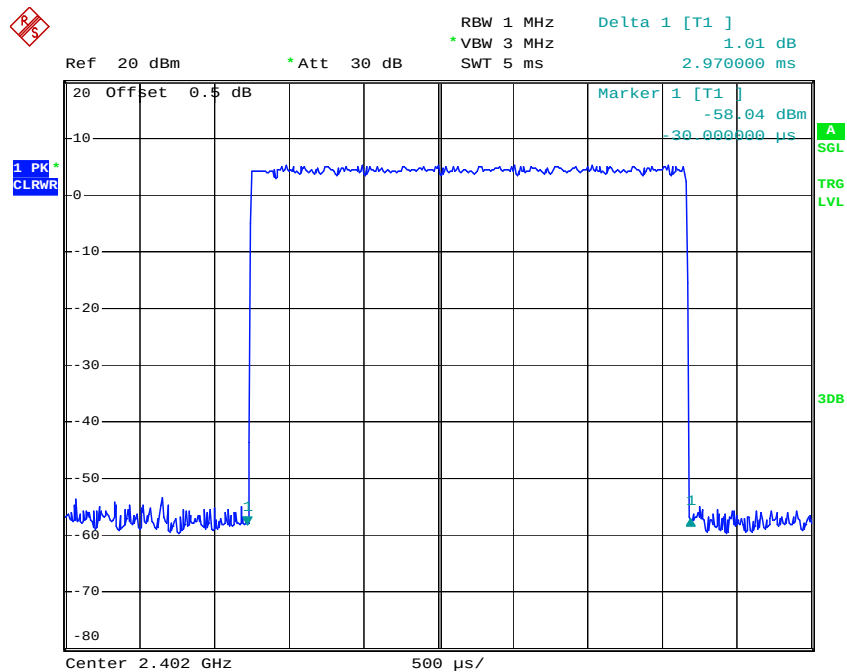
Date: 18.AUG.2018 13:18:23

3DH3: High Channel

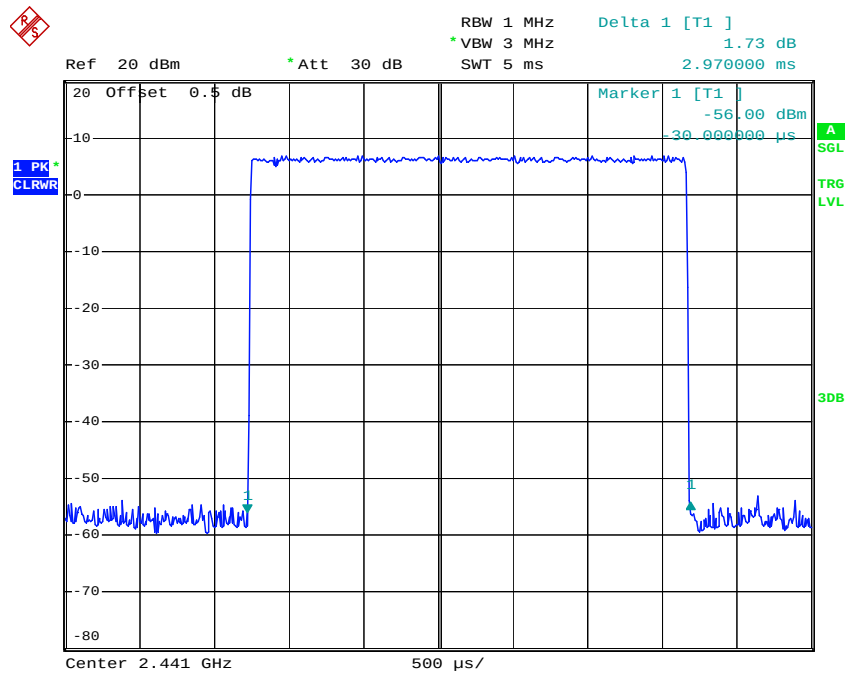


Date: 18.AUG.2018 13:18:55

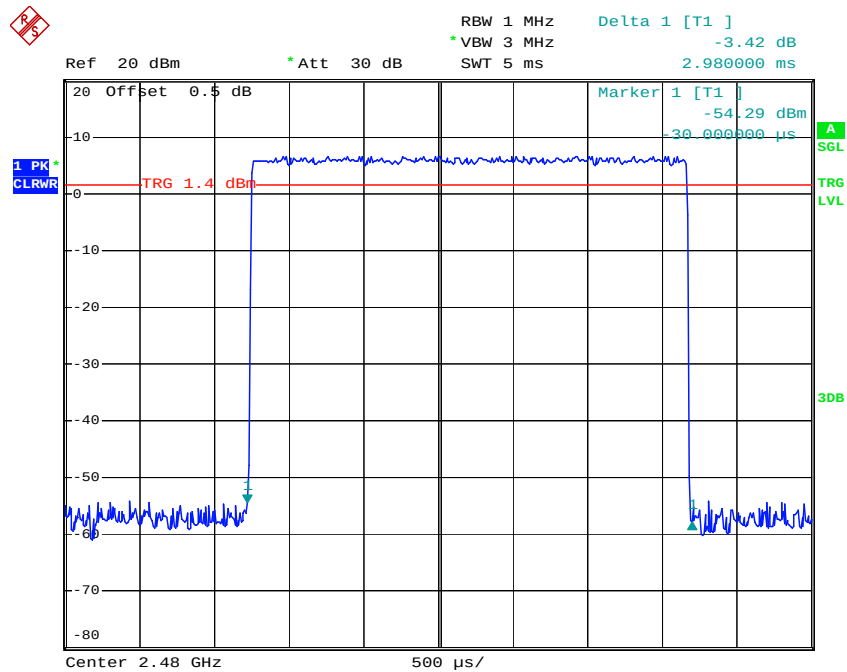
3DH5: Low Channel



Date: 18.AUG.2018 13:20:06

3DH5: Middle Channel

Date: 18.AUG.2018 13:20:11

3DH5: High Channel

Date: 18.AUG.2018 13:20:44

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

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
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:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.1 kPa

* The testing was performed by Harry Yang on 2018-08-18.

Test Result: Compliance.

Test Mode: Transmitting

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	6.75	21
	2441	7.88	21
	2480	8.04	21
EDR Mode ($\pi/4$ -DQPSK)	2402	5.32	21
	2441	6.91	21
	2480	6.75	21
EDR Mode (8-DPSK)	2402	5.81	21
	2441	7.12	21
	2480	7.00	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	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
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**

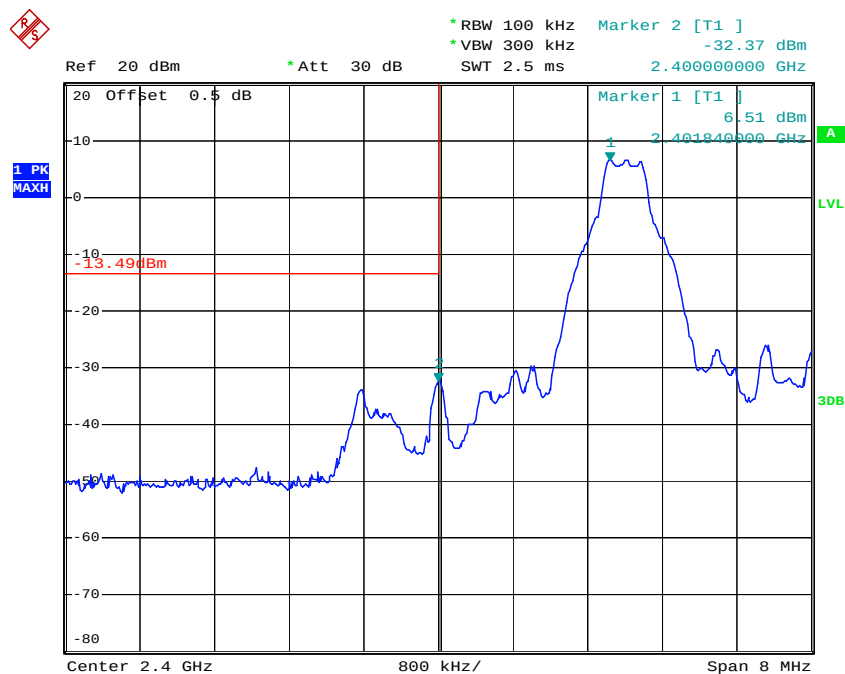
Temperature:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.1 kPa

* The testing was performed by Harry Yang on 2018-08-18

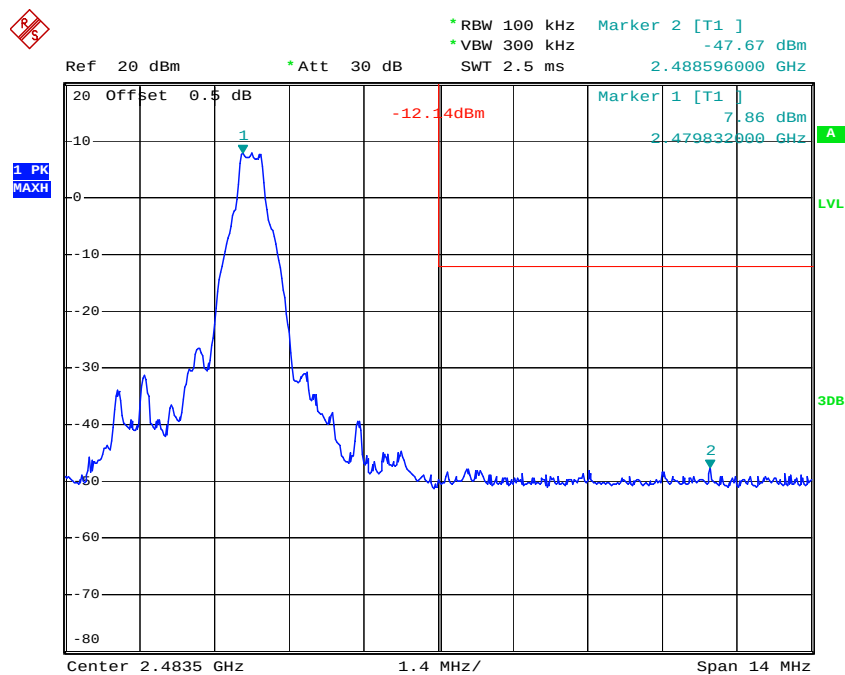
Test Result: Compliance

Single mode:

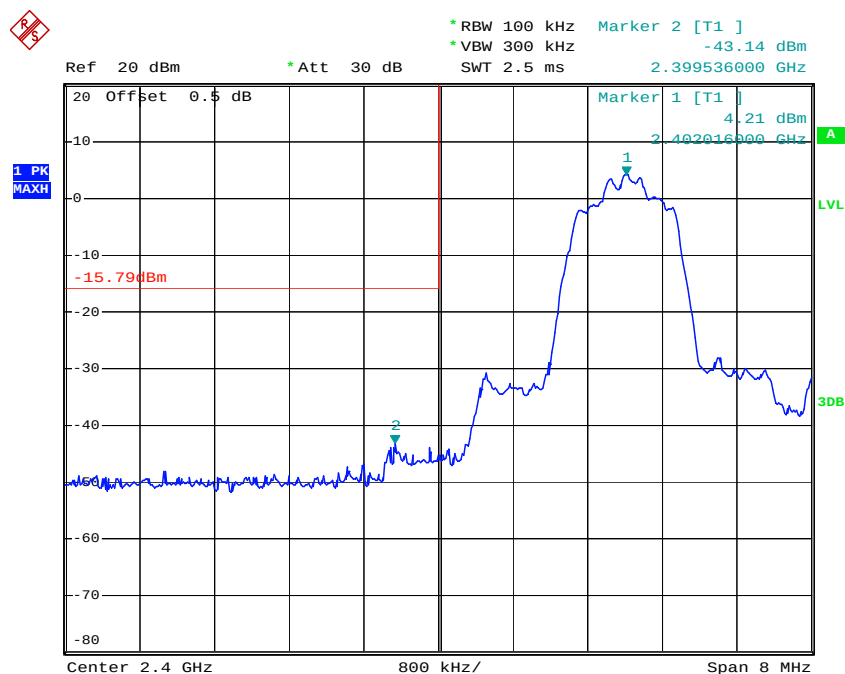
BDR Mode (GFSK):

Band Edge, Left Side

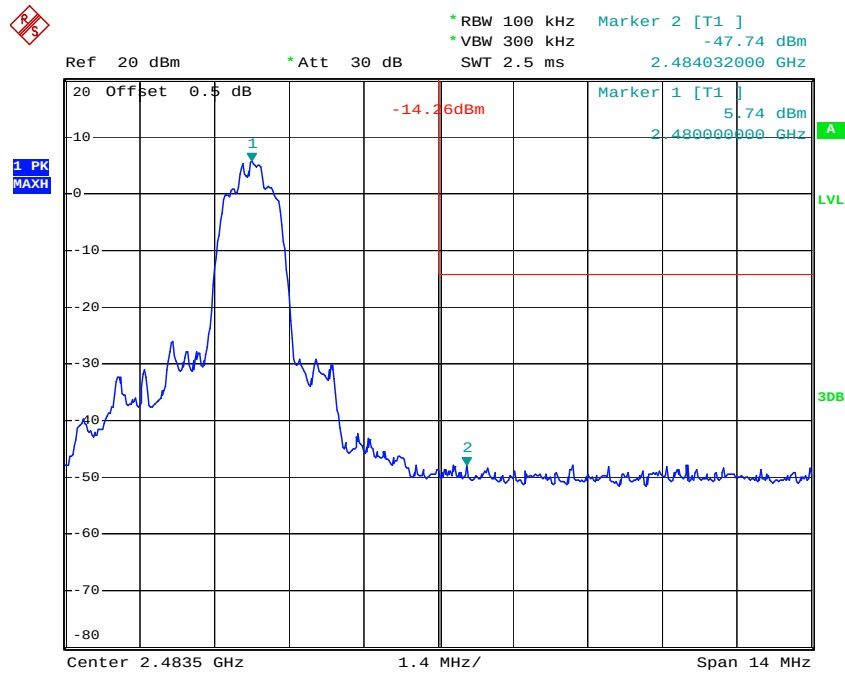
Date: 18.AUG.2018 10:54:21

Band Edge, Right Side

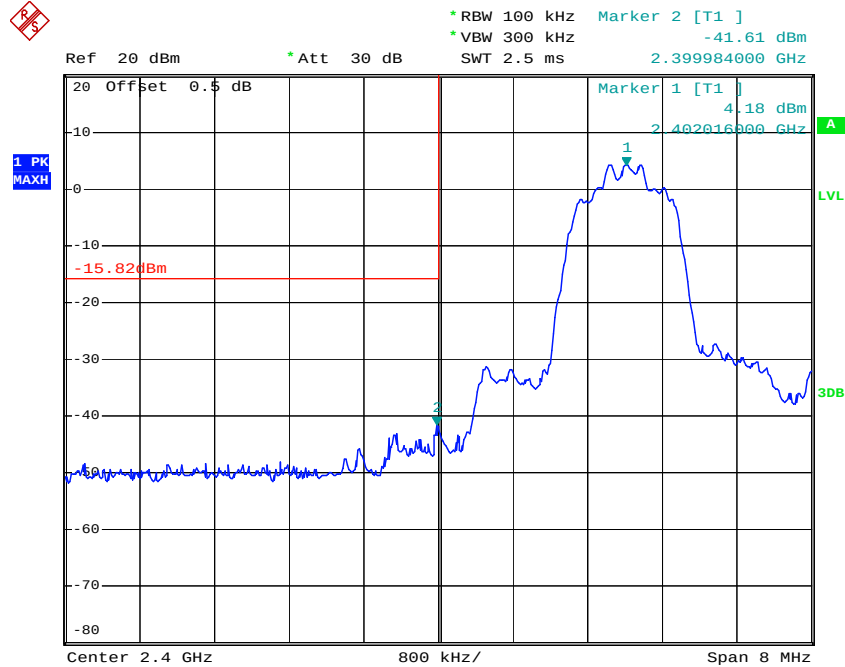
Date: 18.AUG.2018 10:55:54

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

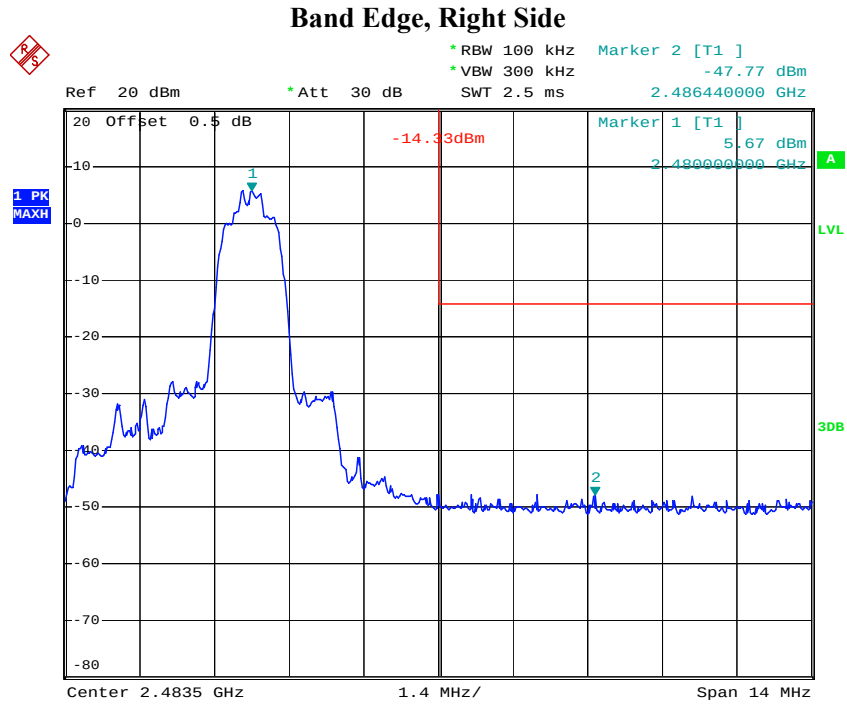
Date: 18.AUG.2018 11:00:06

Band Edge, Right Side

Date: 18.AUG.2018 11:15:17

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

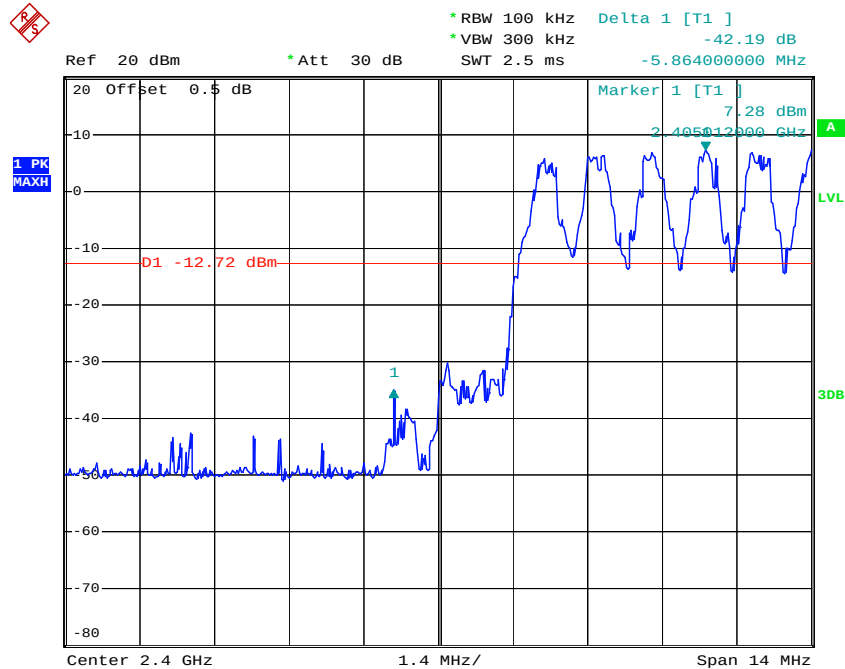
Date: 18.AUG.2018 11:02:18



Date: 18.AUG.2018 11:09:01

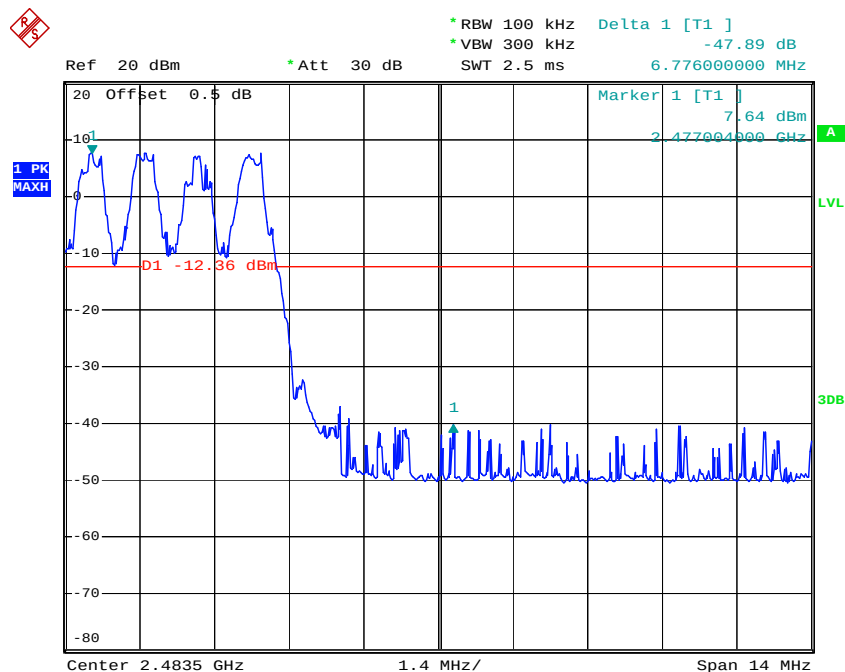
Hopping mode:
BDR Mode (GFSK):

Band Edge, Left Side

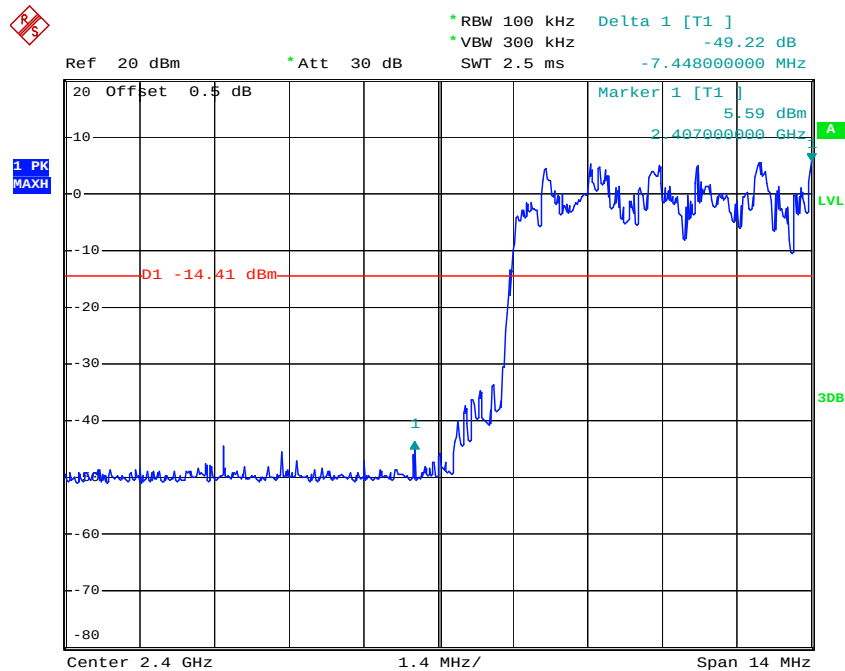


Date: 18.AUG.2018 14:52:53

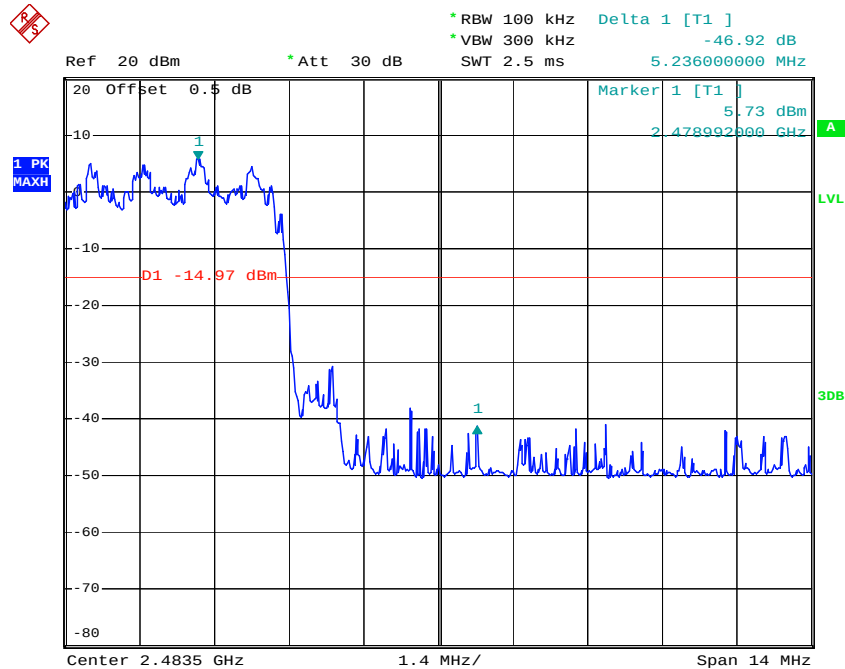
Band Edge, Right Side



Date: 18.AUG.2018 14:54:23

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

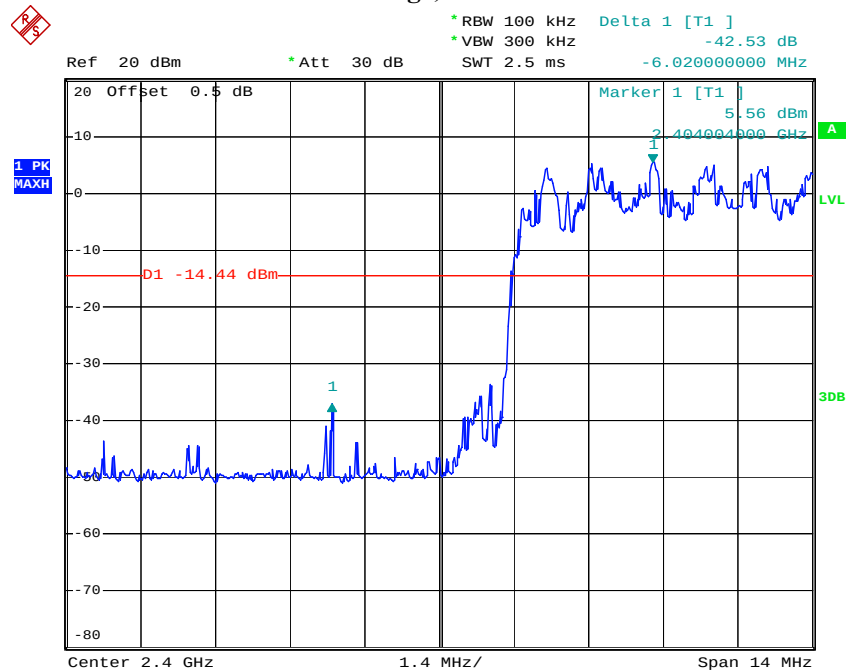
Date: 18.AUG.2018 14:59:40

Band Edge, Right Side

Date: 18.AUG.2018 14:56:16

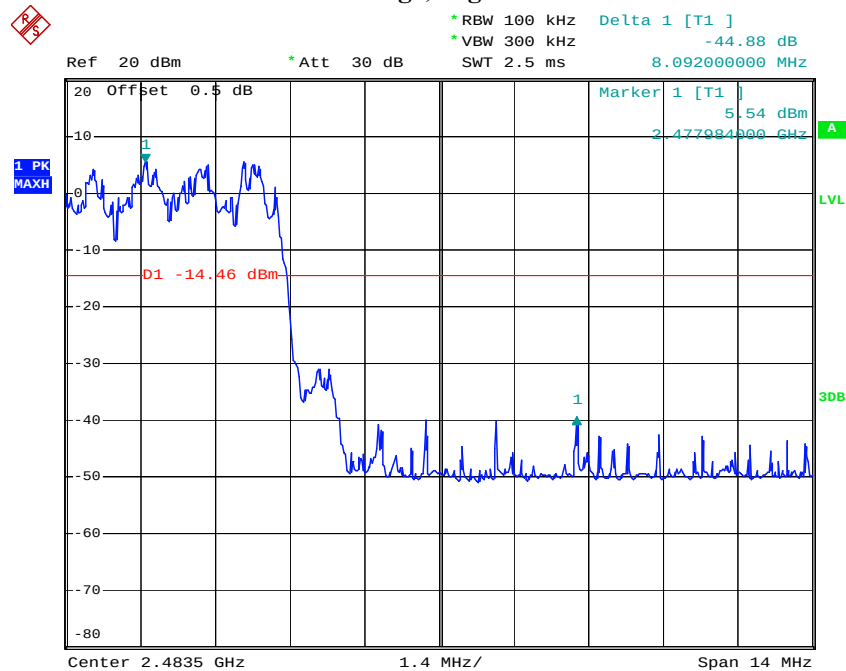
EDR Mode (8-DPSK):

Band Edge, Left Side



Date: 18.AUG.2018 15:01:09

Band Edge, Right Side



Date: 18.AUG.2018 15:02:59

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