



FCC PART 15.247

TEST REPORT

For

GO WORLDWIDE International - F.Z.E

SM - Office - B1-316C, Ajman, UAE.

FCC ID: 2ALSGWEMAGNUMONE

Report Type: Original Report	Product Name: 4G LTE Smartphone
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Report Number: <u>RDG170411802B</u>	
Report Date: <u>2017-05-08</u>	
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The **GO WORLDWIDE International - F.Z.E**'s product, model number: **Magnum One 4G LTE (FCC ID: 2ALSGWEMAGNUMONE)** (the "EUT") in this report was a **4G LTE Smartphone**, which was measured approximately: 14.0 cm (L) × 7.0 cm (W) × 0.8 cm (H), rated input voltage: DC3.8V battery or DC5V Charging from adapter.

**All measurement and test data in this report was gathered from final production sample, serial number: 170411802 (assigned by the BAACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2017-04-11, and EUT conformed to test requirement.*

Objective

This report is prepared on behalf of **GO WORLDWIDE International - F.Z.E** in accordance with Part 2, Subpart J, Part 15, Subparts A, and C of the Federal Communications Commission's rules

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

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: 2ALSGWEMAGNUMONE.
FCC Part 22H, 24E, 27 PCE submissions with FCC ID: 2ALSGWEMAGNUMONE.
FCC Part 15C DTS submissions with FCC ID: 2ALSGWEMAGNUMONE.

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 of the measurements detailed in this Test Report were performed by Bay Area Compliance Laboratories Corp. (Chengdu).

The Bay Area Compliance Laboratories Corp. Chengdu's measurement Uncertainties (calculated for a k=2 Coverage Factor corresponding to approximately 95% Coverage) were as follows:

-For all of the AC Line Conducted Emissions Tests reported herein: ± 3.17 dB.
-For of all of the Direct Antenna Conducted Emissions Tests reported herein: ± 0.56 dB.

-For of all of the direct Radiated Emissions Tests reported herein are:
30 MHz to 200 MHz: ± 4.7 dB;
200 MHz to 1 GHz: ± 6.0 dB;
1 GHz to 6 GHz: ± 5.13 dB; and,
6 GHz to 40 GHz: ± 5.47 dB.

And the uncertainty will not be taken into consideration for all test data recorded in the report.

Test Facility

The test site used by BACL to collect test data is located in the No.5040, Huilongwan Plaza, No.1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FUNNIAL

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

EUT Exercise Software

The engineering mode configured the maximum power as default setting.

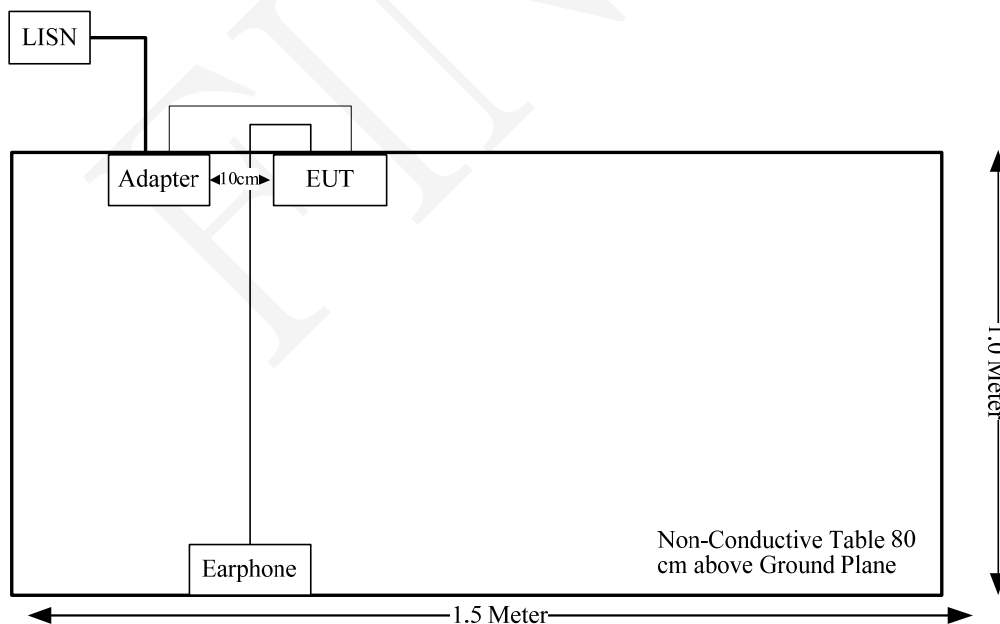
Equipment Modifications

No modification was made to the EUT.

External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	Yes	No	0.98	Adapter	EUT
Earphone	No	No	1.24	EUT	Earphone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(1)	20 dB Bandwidth	Compliance
§15.247(a)(1)	Channel Separation Test	Compliance
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliance
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliance
§15.247(b)(1)	Peak Output Power Measurement	Compliance
§15.247(d)	Band Edges	Compliance

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 tune-up conducted power is 5.5 dBm (3.55 mW).

$[(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f(\text{GHz})}]$
 $= 3.55/5 \cdot (\sqrt{2.48}) = 1.1 < 3.0$

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 Wifi/BT, and the antenna gain is 1.3 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

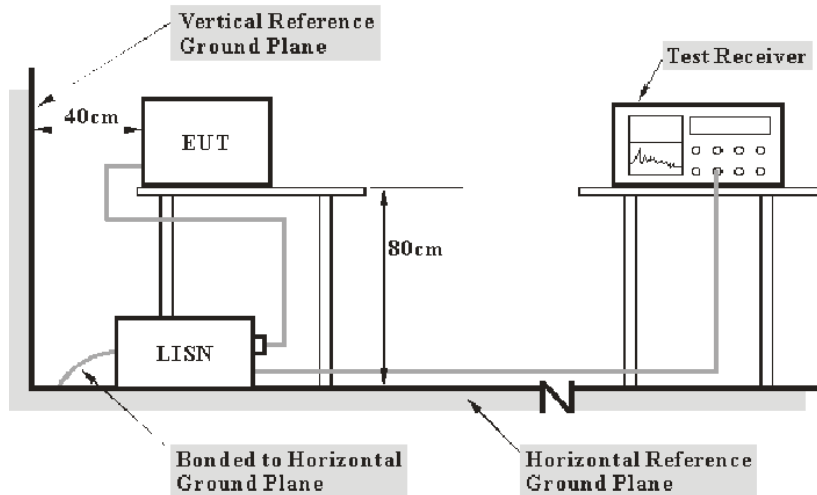
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

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 LISN with a 120 V/60 Hz AC power.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

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

Test Procedure

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

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

V_C : corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS 30	836858/0016	2016-12-02	2017-12-01
Rohde & Schwarz	L.I.S.N.	ENV216	100018	2016-12-02	2017-12-01
Rohde & Schwarz	PULSE LIMITER	ESH3Z2	DE14781	2016-10-31	2017-10-30
SOLAR ELECTRONICS	L.I.S.N.	9252-50-24-BNC	984413	2016-12-02	2017-12-01
Unknown	Conducted Cable	Unknown	NO.5	2016-11-10	2017-11-09
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B “Implementation of traceability policy in accredited laboratories”.

Test Data

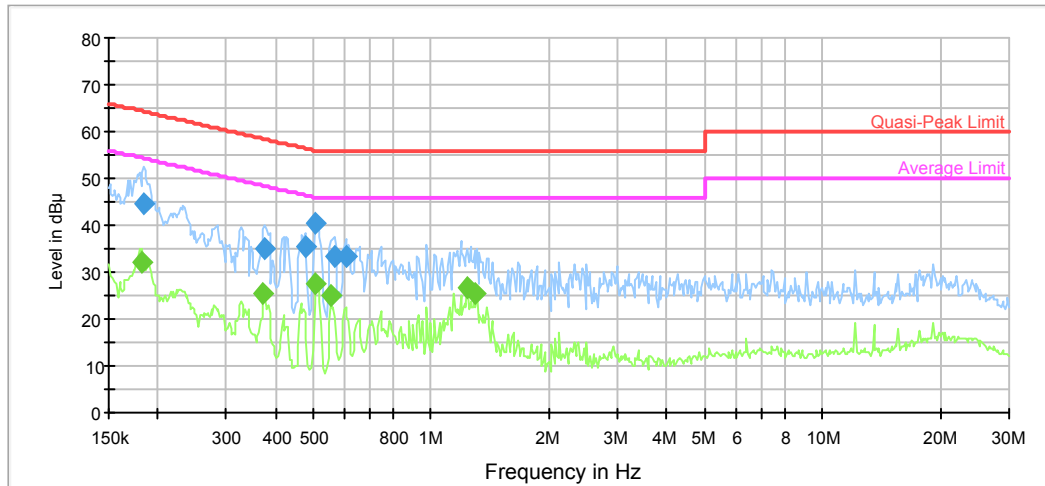
Environmental Conditions

Temperature:	24.9 °C
Relative Humidity:	50.6 %
ATM Pressure:	101 kPa

The testing was performed by Kevin Hu on 2017-04-24.

Test Mode: Transmitting

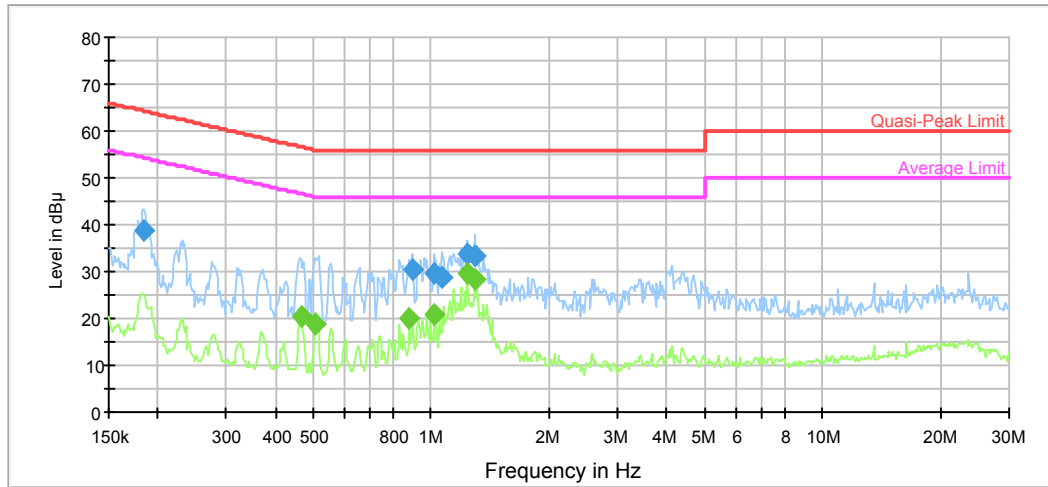
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.184529	44.4	9.000	L1	19.7	19.9	64.3	Compliance
0.375019	35.2	9.000	L1	19.8	23.2	58.4	Compliance
0.476287	35.5	9.000	L1	19.7	20.9	56.4	Compliance
0.507637	40.4	9.000	L1	19.7	15.6	56.0	Compliance
0.567545	33.3	9.000	L1	19.7	22.7	56.0	Compliance
0.604902	33.4	9.000	L1	19.8	22.6	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.183065	32.1	9.000	L1	19.7	22.2	54.3	Compliance
0.372042	25.4	9.000	L1	19.7	23.1	48.5	Compliance
0.507637	27.5	9.000	L1	19.7	18.5	46.0	Compliance
0.554139	25.0	9.000	L1	19.7	21.0	46.0	Compliance
1.239175	26.8	9.000	L1	19.7	19.2	46.0	Compliance
1.289541	25.6	9.000	L1	19.7	20.4	46.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.184529	38.7	9.000	N	19.6	25.6	64.3	Compliance
0.893821	30.3	9.000	N	19.7	25.7	56.0	Compliance
1.015358	29.4	9.000	N	19.7	26.6	56.0	Compliance
1.065081	28.9	9.000	N	19.7	27.1	56.0	Compliance
1.239175	33.9	9.000	N	19.6	22.1	56.0	Compliance
1.289541	33.4	9.000	N	19.6	22.6	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.465037	20.5	9.000	N	19.6	26.1	46.6	Compliance
0.507637	18.8	9.000	N	19.6	27.2	46.0	Compliance
0.879690	20.0	9.000	N	19.6	26.0	46.0	Compliance
1.023481	20.8	9.000	N	19.7	25.2	46.0	Compliance
1.239175	29.6	9.000	N	19.6	16.4	46.0	Compliance
1.289541	28.5	9.000	N	19.6	17.5	46.0	Compliance

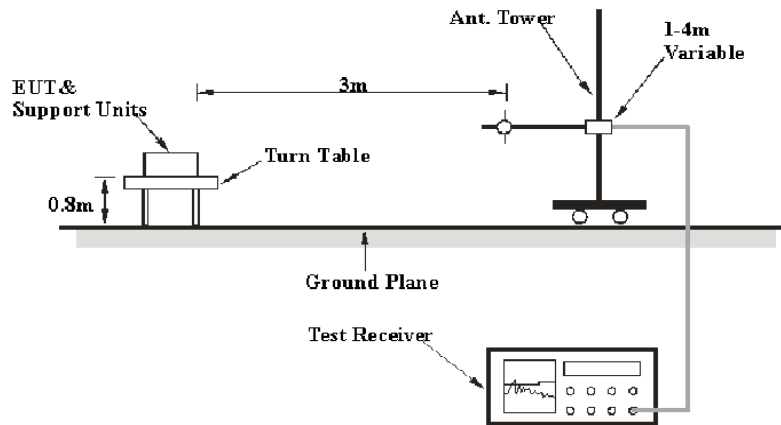
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

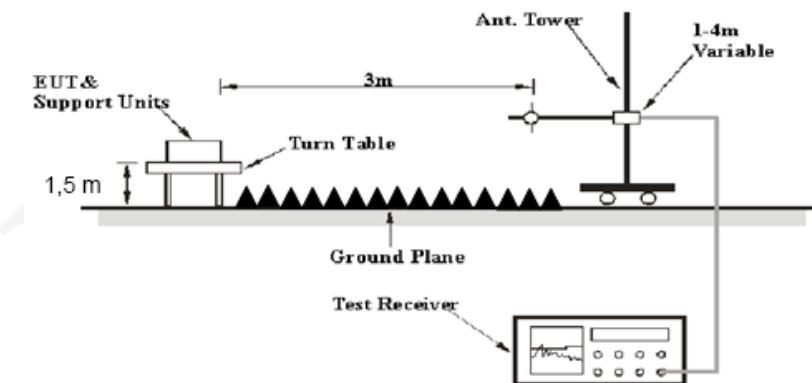
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	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
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A121808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-0113024	2014-06-16	2017-06-15
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2016-05-20	2017-05-19
EMCT	Semi-Anechoic Chamber	966	966-1	2015-04-24	2018-04-23
Unknown	RF Cable (below 1GHz)	Unknown	NO.1	2016-11-10	2017-11-09
Unknown	RF Cable (below 1GHz)	Unknown	NO.4	2016-11-10	2017-11-09
Unknown	RF Cable (above 1GHz)	Unknown	NO.2	2016-11-10	2017-11-09
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1312	2016-08-18	2017-08-18
Quinstar	Amplifier	QLW-18405536-JO	15964001032	2016-08-18	2017-08-18
Agilent	Spectrum Analyzer	8564E	5943A01752	2016-08-18	2017-08-18

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

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:	27.3°C
Relative Humidity:	53.7 %
ATM Pressure:	100.1 kPa

* The testing was performed by Kevin Hu on 2017-05-04.

Test Mode: Transmitting

30 MHz-25GHz:

BDR Mode (GFSK):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	FCC 15.247	
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB)				Limit (dBµV/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	59.64	PK	H	23.53	3.00	0.00	86.17	N/A	N/A
2402	49.88	AV	H	23.53	3.00	0.00	76.41	N/A	N/A
2402	72.8	PK	V	23.53	3.00	0.00	99.33	N/A	N/A
2402	62.55	AV	V	23.53	3.00	0.00	89.08	N/A	N/A
2390	27.9	PK	V	23.57	3.00	0.00	54.47	74.00	19.53
2390	15.48	AV	V	23.57	3.00	0.00	42.05	54.00	11.95
4804	35.32	PK	V	30.77	5.12	26.87	44.34	74.00	29.66
4804	24.15	AV	V	30.77	5.12	26.87	33.17	54.00	20.83
7206	33.26	PK	V	34.71	6.16	26.35	47.78	74.00	26.22
7206	22.77	AV	V	34.71	6.16	26.35	37.29	54.00	16.71
1511	30.74	PK	V	24.12	2.68	26.34	31.20	74.00	42.80
1511	19.83	AV	V	24.12	2.68	26.34	20.29	54.00	33.71
79.47	40.1	QP	V	8.05	0.45	28.40	20.20	40.00	19.80
99.84	41.9	QP	V	10.71	0.51	28.31	24.81	43.50	18.69
Middle Channel: 2441 MHz									
2441	61.09	PK	H	23.40	3.00	0.00	87.49	N/A	N/A
2441	50.61	AV	H	23.40	3.00	0.00	77.01	N/A	N/A
2441	74.04	PK	V	23.40	3.00	0.00	100.44	N/A	N/A
2441	63.95	AV	V	23.40	3.00	0.00	90.35	N/A	N/A
4882	35.52	PK	V	31.02	5.09	26.87	44.76	74.00	29.24
4882	23.88	AV	V	31.02	5.09	26.87	33.12	54.00	20.88
7323	32.73	PK	V	34.95	6.22	26.40	47.50	74.00	26.50
7323	22.3	AV	V	34.95	6.22	26.40	37.07	54.00	16.93
1545	31.51	PK	V	24.17	2.70	26.37	32.01	74.00	41.99
1545	20.37	AV	V	24.17	2.70	26.37	20.87	54.00	33.13
2256	33.78	PK	V	24.03	3.02	26.86	33.97	74.00	40.03
2256	23.04	AV	V	24.03	3.02	26.86	23.23	54.00	30.77
79.47	40.2	QP	V	8.05	0.45	28.40	20.30	40.00	19.70
99.84	41.8	QP	V	10.71	0.51	28.31	24.71	43.50	18.79
High Channel: 2480 MHz									
2480	62.47	PK	H	23.27	2.99	0.00	88.73	N/A	N/A
2480	52.33	AV	H	23.27	2.99	0.00	78.59	N/A	N/A
2480	75.06	PK	V	23.27	2.99	0.00	101.32	N/A	N/A
2480	64.58	AV	V	23.27	2.99	0.00	90.84	N/A	N/A
2483.5	28.75	PK	V	23.26	2.99	0.00	55.00	74.00	19.00
2483.5	16.57	AV	V	23.26	2.99	0.00	42.82	54.00	11.18
4960	34.79	PK	V	31.27	5.05	26.88	44.23	74.00	29.77
4960	24.13	AV	V	31.27	5.05	26.88	33.57	54.00	20.43
7440	33.66	PK	V	35.18	6.27	26.45	48.66	74.00	25.34
7440	23.22	AV	V	35.18	6.27	26.45	38.22	54.00	15.78
1586	31.98	PK	V	24.24	2.74	26.41	32.55	74.00	41.45
1586	20.86	AV	V	24.24	2.74	26.41	21.43	54.00	32.57
79.47	40	QP	V	8.05	0.45	28.40	20.10	40.00	19.90
99.84	42.1	QP	V	10.71	0.51	28.31	25.01	43.50	18.49

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

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dB μ V/m)	FCC 15.247	
	Reading (dB μ V)	Detector	Polar (H/V)	Factor (dB)				Limit (dB μ V/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	61.55	PK	H	23.53	3.00	0.00	88.08	N/A	N/A
2402	50.02	AV	H	23.53	3.00	0.00	76.55	N/A	N/A
2402	73.77	PK	V	23.53	3.00	0.00	100.30	N/A	N/A
2402	62.09	AV	V	23.53	3.00	0.00	88.62	N/A	N/A
2390	28.17	PK	V	23.57	3.00	0.00	54.74	74.00	19.26
2390	15.52	AV	V	23.57	3.00	0.00	42.09	54.00	11.91
4804	35.29	PK	V	30.77	5.12	26.87	44.31	74.00	29.69
4804	23.55	AV	V	30.77	5.12	26.87	32.57	54.00	21.43
7206	32.4	PK	V	34.71	6.16	26.35	46.92	74.00	27.08
7206	22.51	AV	V	34.71	6.16	26.35	37.03	54.00	16.97
1511	31.47	PK	V	24.12	2.68	26.34	31.93	74.00	42.07
1511	20.29	AV	V	24.12	2.68	26.34	20.75	54.00	33.25
79.47	40.2	QP	V	8.05	0.45	28.40	20.30	40.00	19.70
99.84	41.9	QP	V	10.71	0.51	28.31	24.81	43.50	18.69
Middle Channel: 2441 MHz									
2441	62.33	PK	H	23.40	3.00	0.00	88.73	N/A	N/A
2441	50.52	AV	H	23.40	3.00	0.00	76.92	N/A	N/A
2441	74.7	PK	V	23.40	3.00	0.00	101.10	N/A	N/A
2441	62.92	AV	V	23.40	3.00	0.00	89.32	N/A	N/A
4882	35.18	PK	V	31.02	5.09	26.87	44.42	74.00	29.58
4882	23.55	AV	V	31.02	5.09	26.87	32.79	54.00	21.21
7323	33.1	PK	V	34.95	6.22	26.40	47.87	74.00	26.13
7323	22.44	AV	V	34.95	6.22	26.40	37.21	54.00	16.79
1545	31.53	PK	V	24.17	2.70	26.37	32.03	74.00	41.97
1545	20.64	AV	V	24.17	2.70	26.37	21.14	54.00	32.86
2256	34.22	PK	V	24.03	3.02	26.86	34.41	74.00	39.59
2256	22.85	AV	V	24.03	3.02	26.86	23.04	54.00	30.96
79.47	40.4	QP	V	8.05	0.45	28.40	20.50	40.00	19.50
99.84	42	QP	V	10.71	0.51	28.31	24.91	43.50	18.59
High Channel: 2480 MHz									
2480	63.1	PK	H	23.27	2.99	0.00	89.36	N/A	N/A
2480	51.54	AV	H	23.27	2.99	0.00	77.80	N/A	N/A
2480	75.72	PK	V	23.27	2.99	0.00	101.98	N/A	N/A
2480	64.15	AV	V	23.27	2.99	0.00	90.41	N/A	N/A
2483.5	31.76	PK	V	23.26	2.99	0.00	58.01	74.00	15.99
2483.5	18.19	AV	V	23.26	2.99	0.00	44.44	54.00	9.56
4960	35.69	PK	V	31.27	5.05	26.88	45.13	74.00	28.87
4960	24.17	AV	V	31.27	5.05	26.88	33.61	54.00	20.39
7440	33.35	PK	V	35.18	6.27	26.45	48.35	74.00	25.65
7440	22.77	AV	V	35.18	6.27	26.45	37.77	54.00	16.23
1586	31.3	PK	V	24.24	2.74	26.41	31.87	74.00	42.13
1586	20.29	AV	V	24.24	2.74	26.41	20.86	54.00	33.14
79.47	40.5	QP	V	8.05	0.45	28.40	20.60	40.00	19.40
99.84	42.1	QP	V	10.71	0.51	28.31	25.01	43.50	18.49

EDR Mode (8-DPSK):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	FCC 15.247	
	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB)				Limit (dBµV/m)	Margin (dB)
Low Channel: 2402 MHz									
2402	61.95	PK	H	23.53	3.00	0.00	88.48	N/A	N/A
2402	49.98	AV	H	23.53	3.00	0.00	76.51	N/A	N/A
2402	74.24	PK	V	23.53	3.00	0.00	100.77	N/A	N/A
2402	62.35	AV	V	23.53	3.00	0.00	88.88	N/A	N/A
2390	28.29	PK	V	23.57	3.00	0.00	54.86	74.00	19.14
2390	15.36	AV	V	23.57	3.00	0.00	41.93	54.00	12.07
4804	35.11	PK	V	30.77	5.12	26.87	44.13	74.00	29.87
4804	23.23	AV	V	30.77	5.12	26.87	32.25	54.00	21.75
7206	32.4	PK	V	34.71	6.16	26.35	46.92	74.00	27.08
7206	22.88	AV	V	34.71	6.16	26.35	37.40	54.00	16.60
1511	31.31	PK	V	24.12	2.68	26.34	31.77	74.00	42.23
1511	20.62	AV	V	24.12	2.68	26.34	21.08	54.00	32.92
79.47	40.2	QP	V	8.05	0.45	28.40	20.30	40.00	19.70
99.84	41.8	QP	V	10.71	0.51	28.31	24.71	43.50	18.79
Middle Channel: 2441 MHz									
2441	62.88	PK	H	23.40	3.00	0.00	89.28	N/A	N/A
2441	51.84	AV	H	23.40	3.00	0.00	78.24	N/A	N/A
2441	76.03	PK	V	23.40	3.00	0.00	102.43	N/A	N/A
2441	63.95	AV	V	23.40	3.00	0.00	90.35	N/A	N/A
4882	35.17	PK	V	31.02	5.09	26.87	44.41	74.00	29.59
4882	23.94	AV	V	31.02	5.09	26.87	33.18	54.00	20.82
7323	32.96	PK	V	34.95	6.22	26.40	47.73	74.00	26.27
7323	22.61	AV	V	34.95	6.22	26.40	37.38	54.00	16.62
1545	31.47	PK	V	24.17	2.70	26.37	31.97	74.00	42.03
1545	20.39	AV	V	24.17	2.70	26.37	20.89	54.00	33.11
2256	34.29	PK	V	24.03	3.02	26.86	34.48	74.00	39.52
2256	23.04	AV	V	24.03	3.02	26.86	23.23	54.00	30.77
79.47	40.5	QP	V	8.05	0.45	28.40	20.60	40.00	19.40
99.84	42.1	QP	V	10.71	0.51	28.31	25.01	43.50	18.49
High Channel: 2480 MHz									
2480	62.75	PK	H	23.27	2.99	0.00	89.01	N/A	N/A
2480	51.37	AV	H	23.27	2.99	0.00	77.63	N/A	N/A
2480	75.86	PK	V	23.27	2.99	0.00	102.12	N/A	N/A
2480	64.64	AV	V	23.27	2.99	0.00	90.90	N/A	N/A
2483.5	32.2	PK	V	23.26	2.99	0.00	58.45	74.00	15.55
2483.5	18.17	AV	V	23.26	2.99	0.00	44.42	54.00	9.58
4960	35.73	PK	V	31.27	5.05	26.88	45.17	74.00	28.83
4960	24.65	AV	V	31.27	5.05	26.88	34.09	54.00	19.91
7440	33.69	PK	V	35.18	6.27	26.45	48.69	74.00	25.31
7440	22.48	AV	V	35.18	6.27	26.45	37.48	54.00	16.52
1586	30.97	PK	V	24.24	2.74	26.41	31.54	74.00	42.46
1586	20.42	AV	V	24.24	2.74	26.41	20.99	54.00	33.01
79.47	40.1	QP	V	8.05	0.45	28.40	20.20	40.00	19.80
99.84	41.5	QP	V	10.71	0.51	28.31	24.41	43.50	19.09

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
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Cable	Unknown	C-5	Each Time	/

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

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:	20.2°C
Relative Humidity:	50.1 %
ATM Pressure:	100.4 kPa

* The testing was performed by Kevin Hu on 2017-04-22.

Test Result: Compliance.

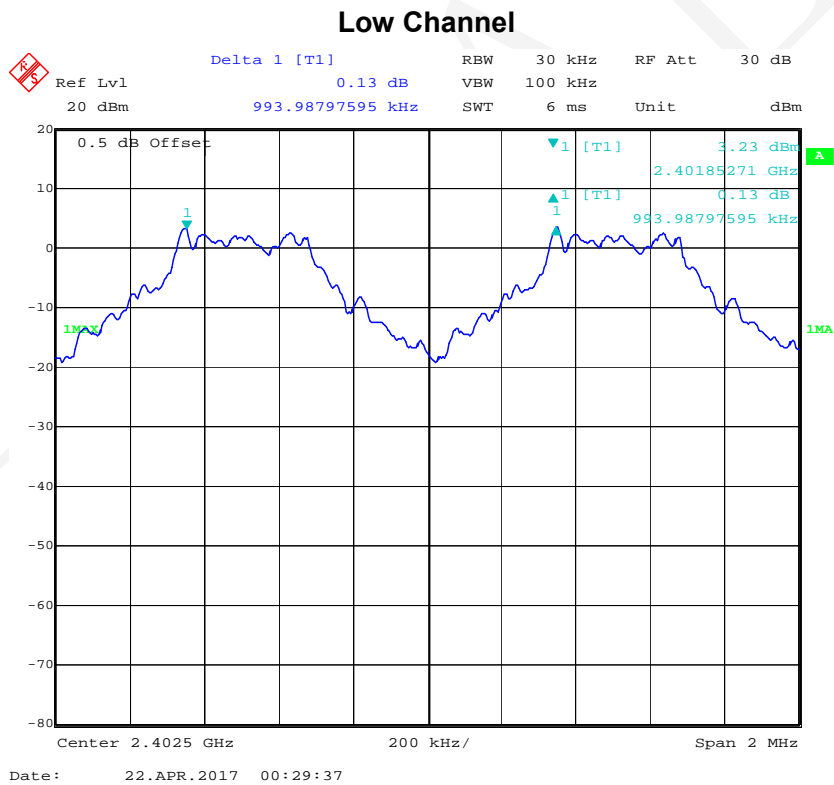
Please refer to following tables and plots

Test Mode: Transmitting

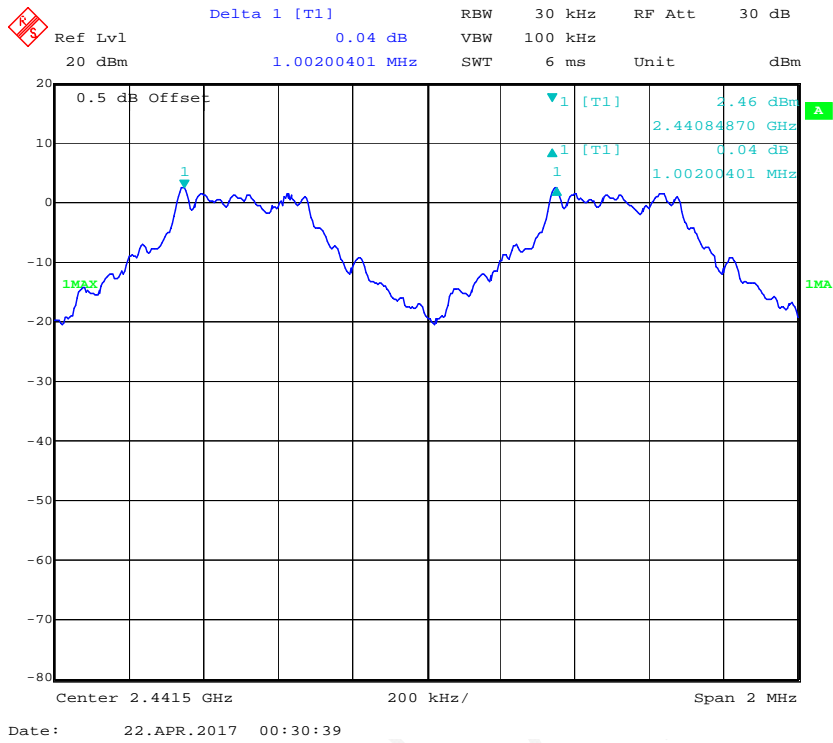
Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
BDR (GFSK)	Low	2402	0.994	0.62
	Middle	2441	1.002	0.62
	High	2480	1.002	0.62
EDR (π/4-DQPSK)	Low	2402	1.006	0.84
	Middle	2441	1.002	0.84
	High	2480	1.002	0.84
EDR (8DPSK)	Low	2402	1.002	0.85
	Middle	2441	1.002	0.85
	High	2480	1.002	0.85

Note: Limit= (2/3) × 20dB bandwidth

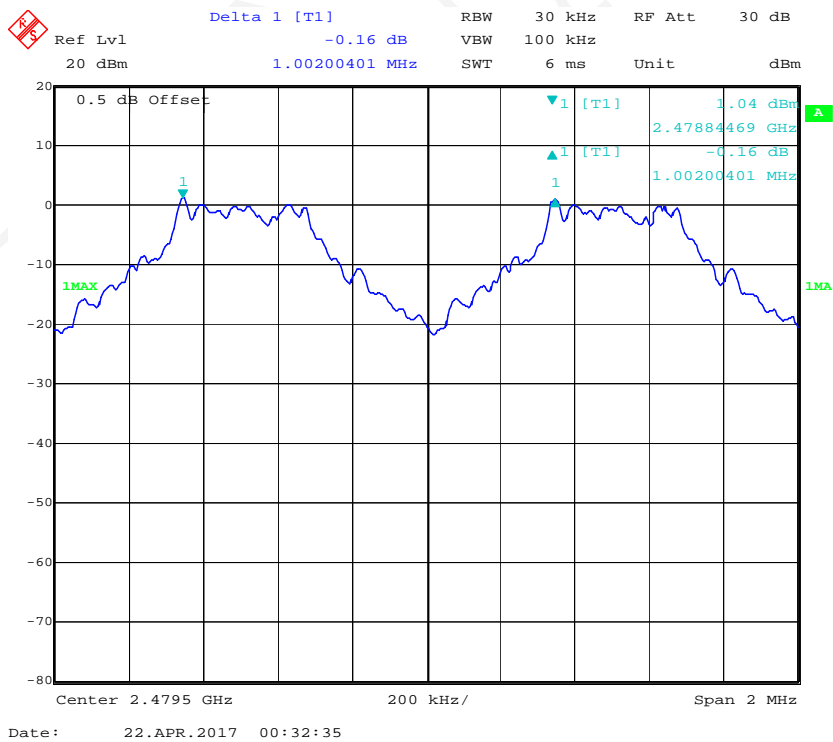
BDR Mode (GFSK):



Middle Channel

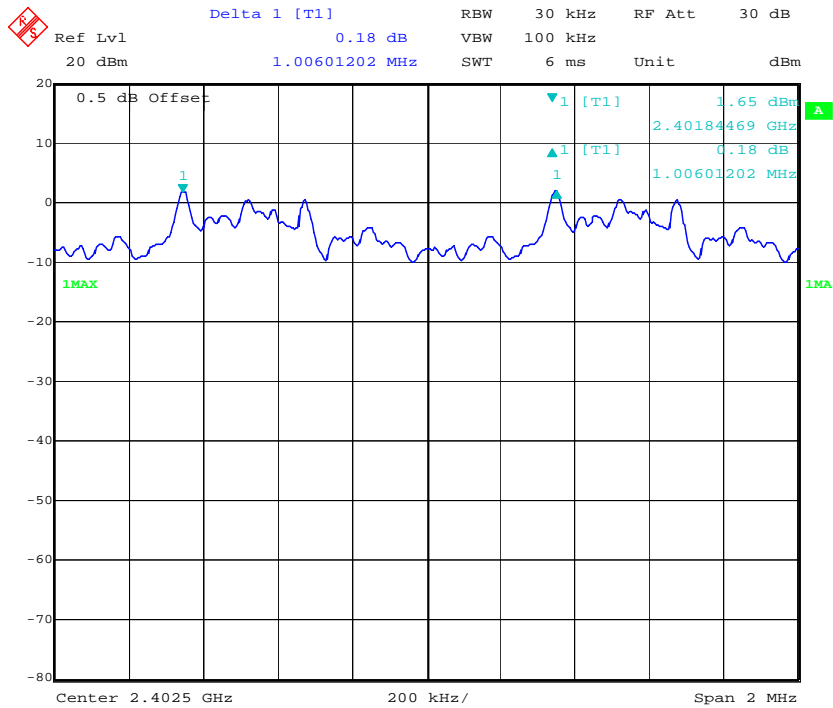


High Channel

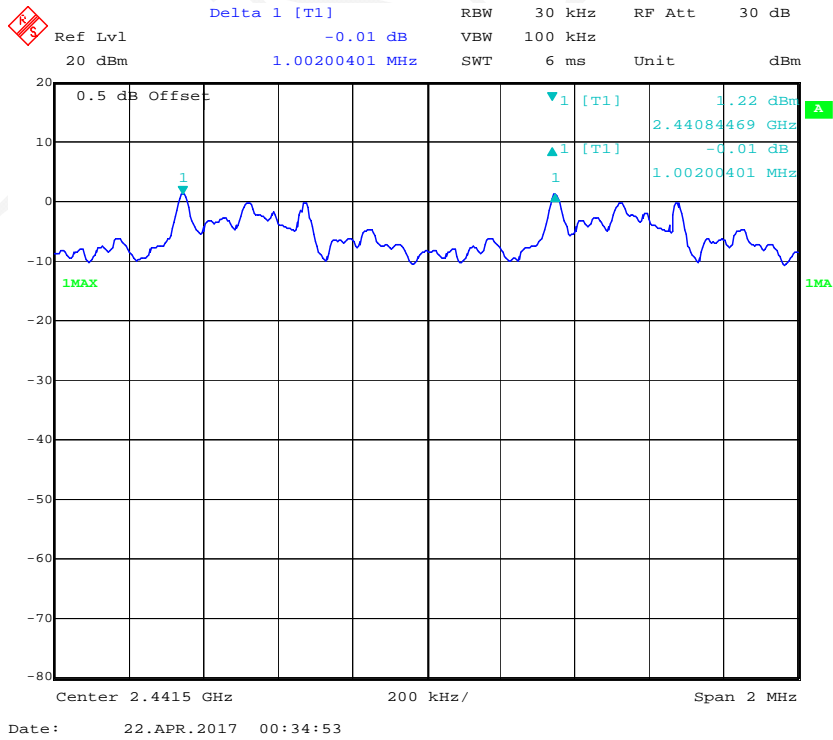


EDR Mode ($\pi/4$ -DQPSK):

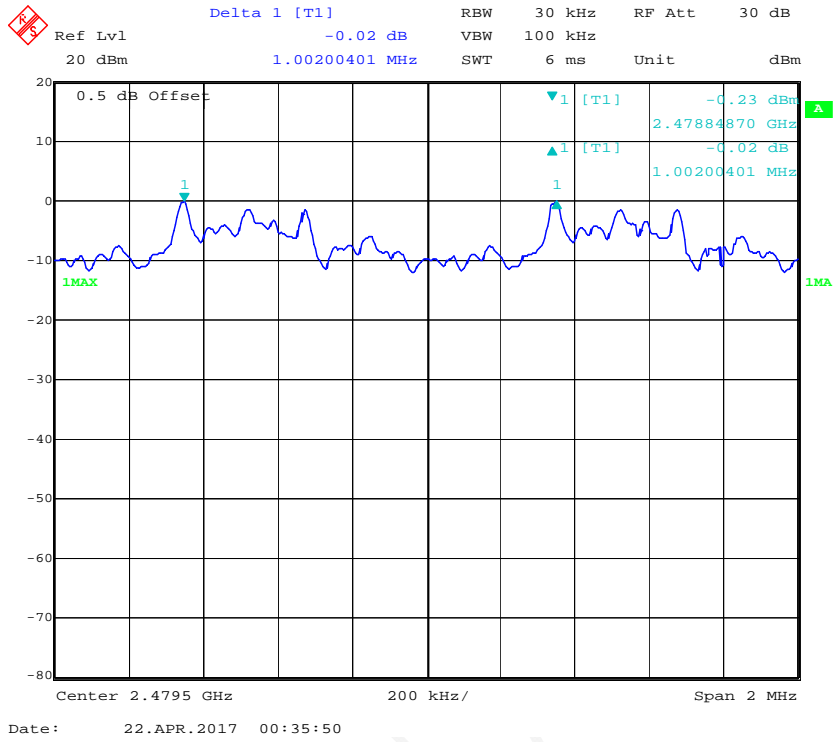
Low Channel



Middle Channel

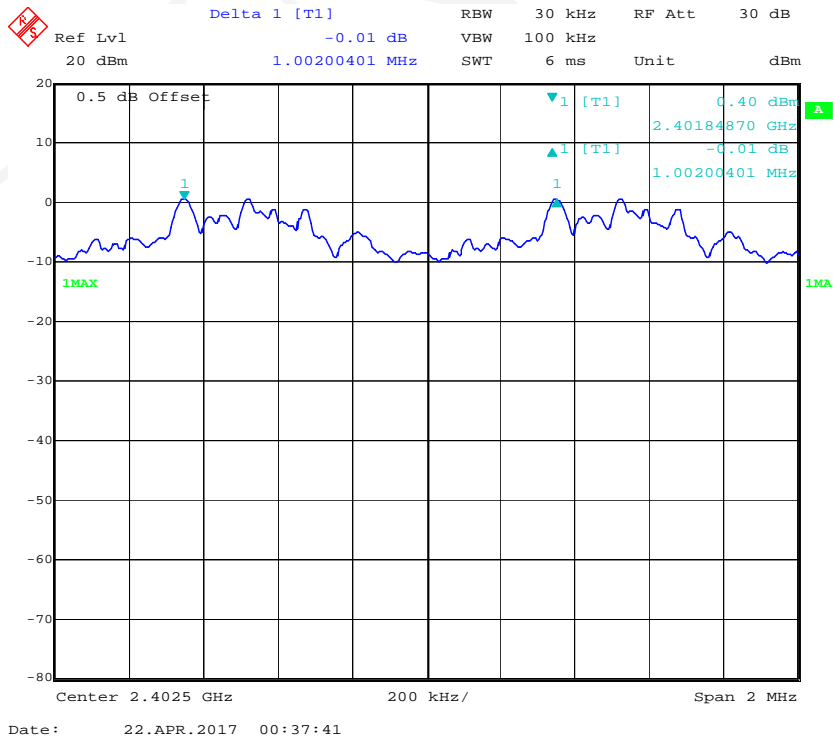


High Channel

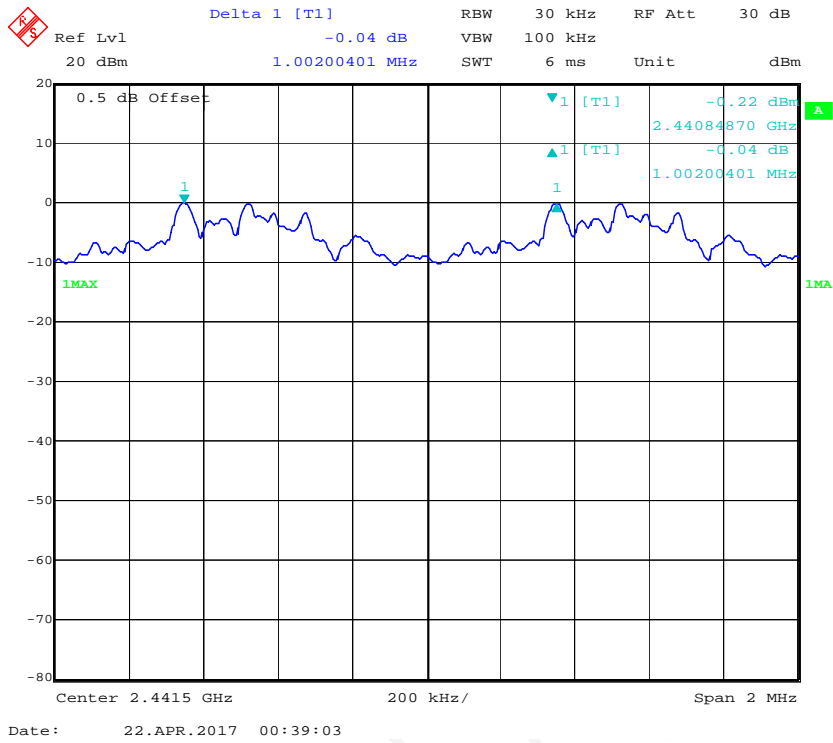


EDR Mode (8-DPSK):

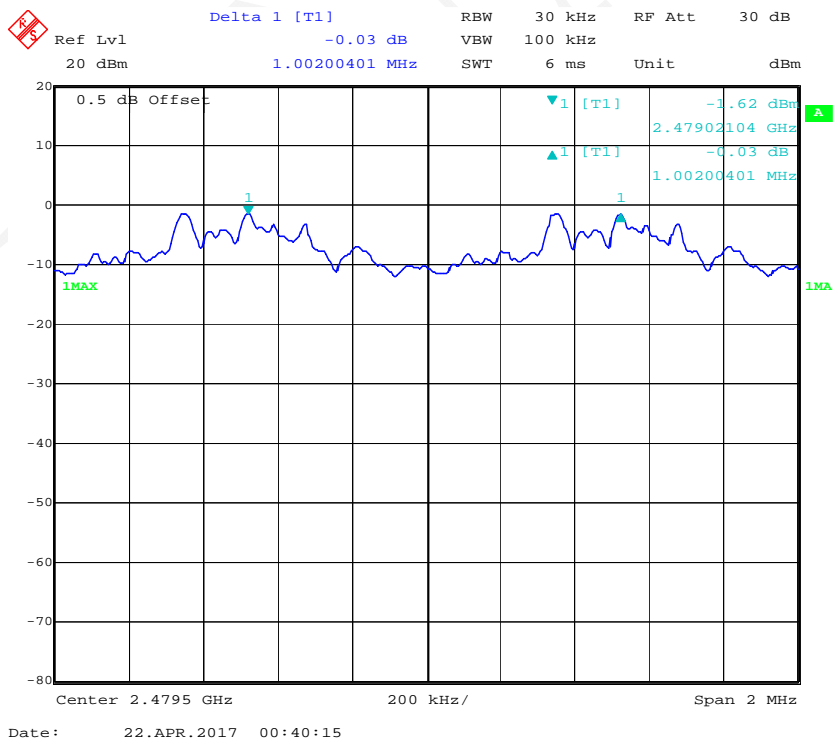
Low Channel



Middle Channel



High Channel



FCC §15.247(a) (1) – 20 dB BANDWIDTH TESTING

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Cable	Unknown	C-5	Each Time	/

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B “Implementation of traceability policy in accredited laboratories”.

Test Data

Environmental Conditions

Temperature:	20.2°C
Relative Humidity:	50.1 %
ATM Pressure:	100.4 kPa

* The testing was performed by Kevin Hu on 2017-04-22.

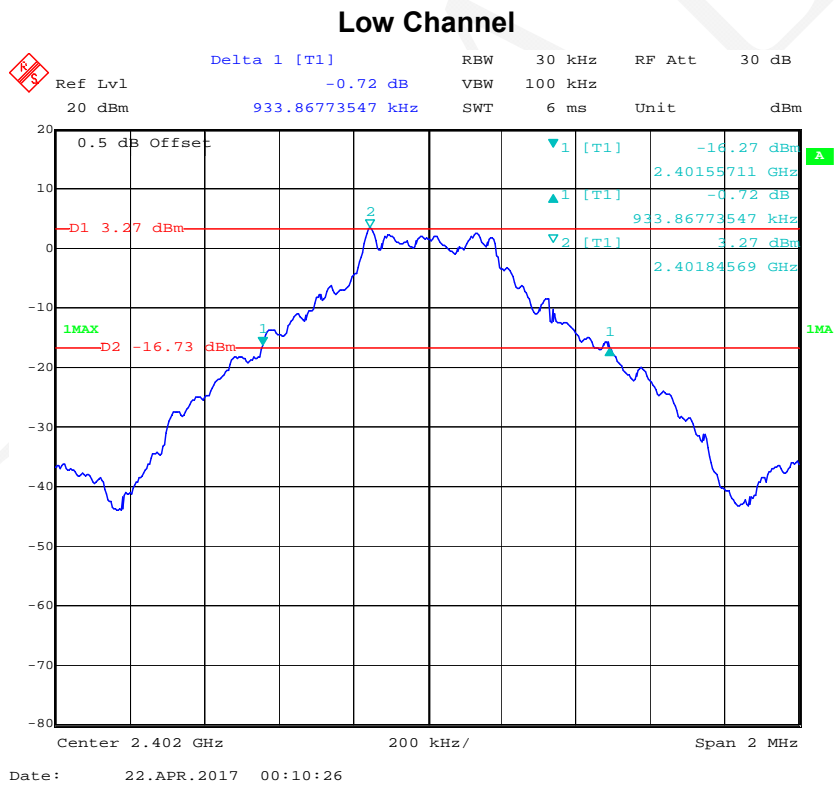
Test Result: Compliance.

Please refer to following tables and plots

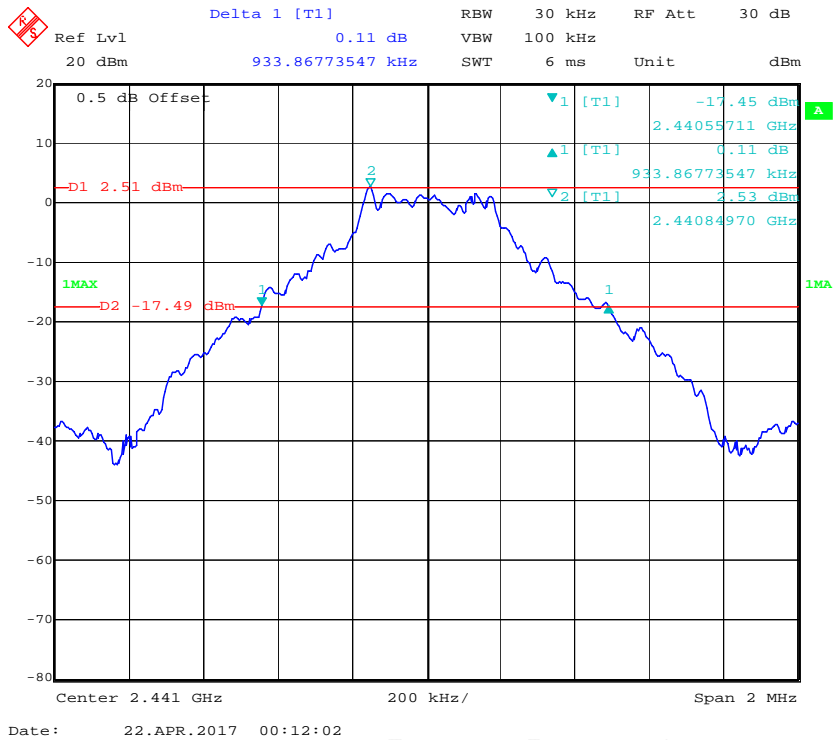
Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.93
	Middle	2441	0.93
	High	2480	0.93
EDR Mode ($\pi/4$ -DQPSK)	Low	2402	1.26
	Middle	2441	1.26
	High	2480	1.26
EDR Mode (8-DPSK)	Low	2402	1.27
	Middle	2441	1.27
	High	2480	1.27

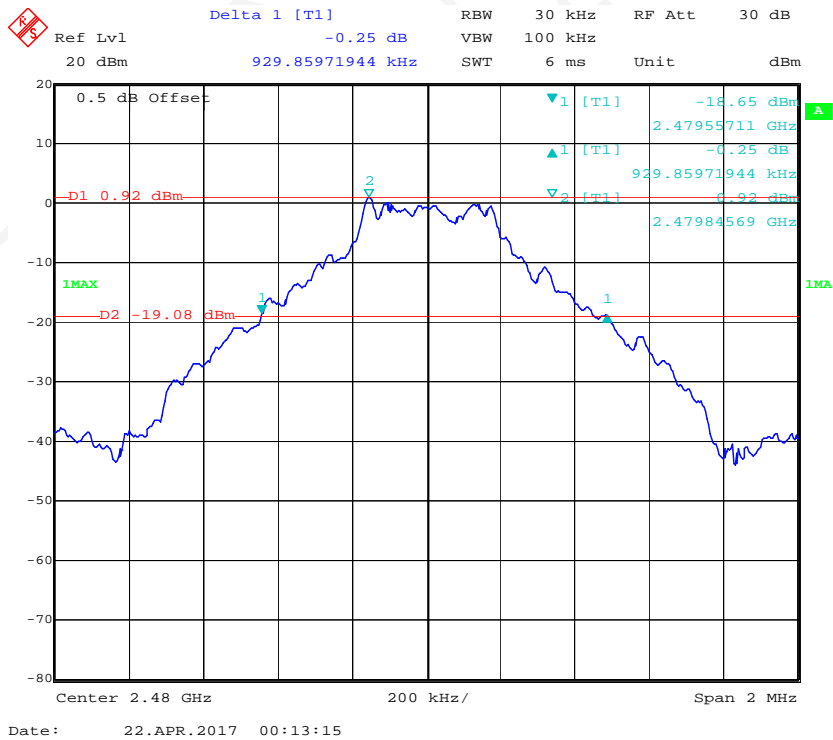
BDR Mode (GFSK):



Middle Channel

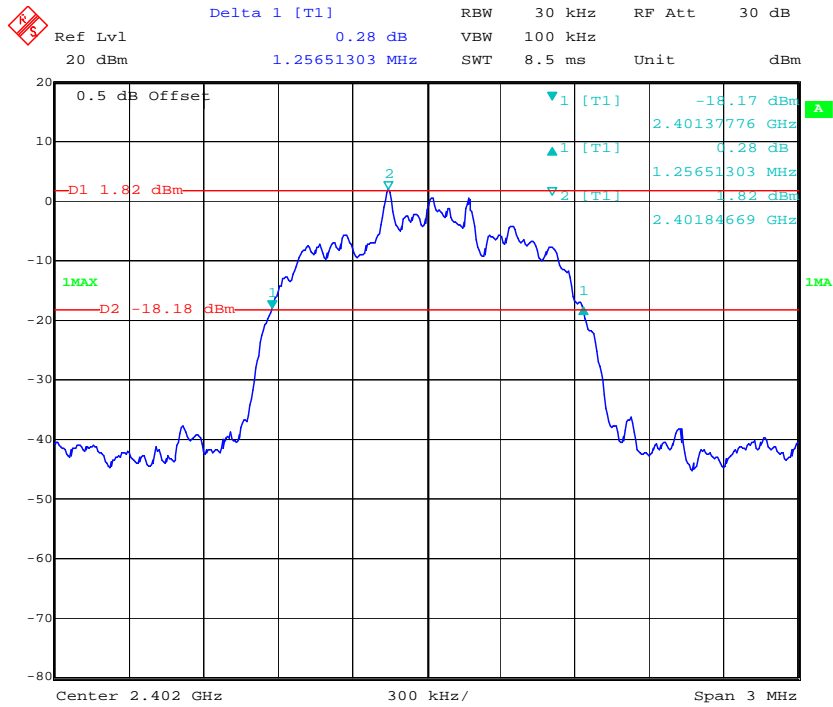


High Channel



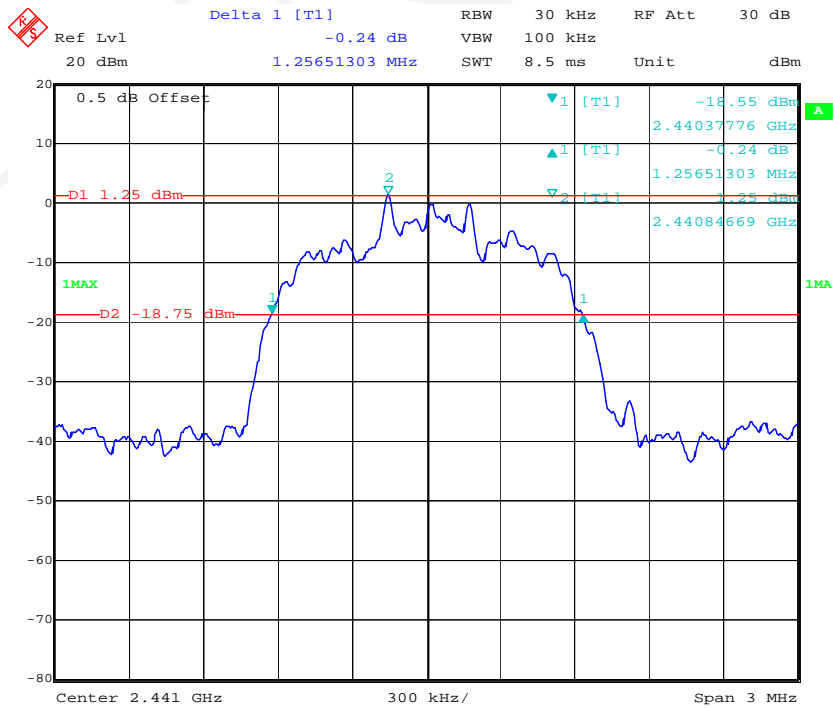
EDR Mode ($\pi/4$ -DQPSK):

Low Channel



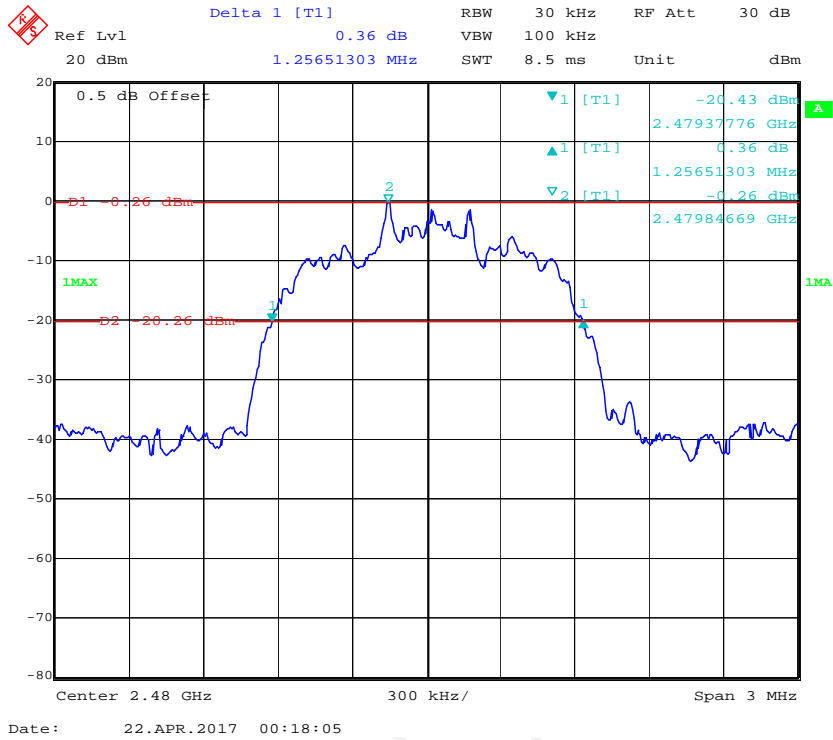
Date: 22.APR.2017 00:15:19

Middle Channel



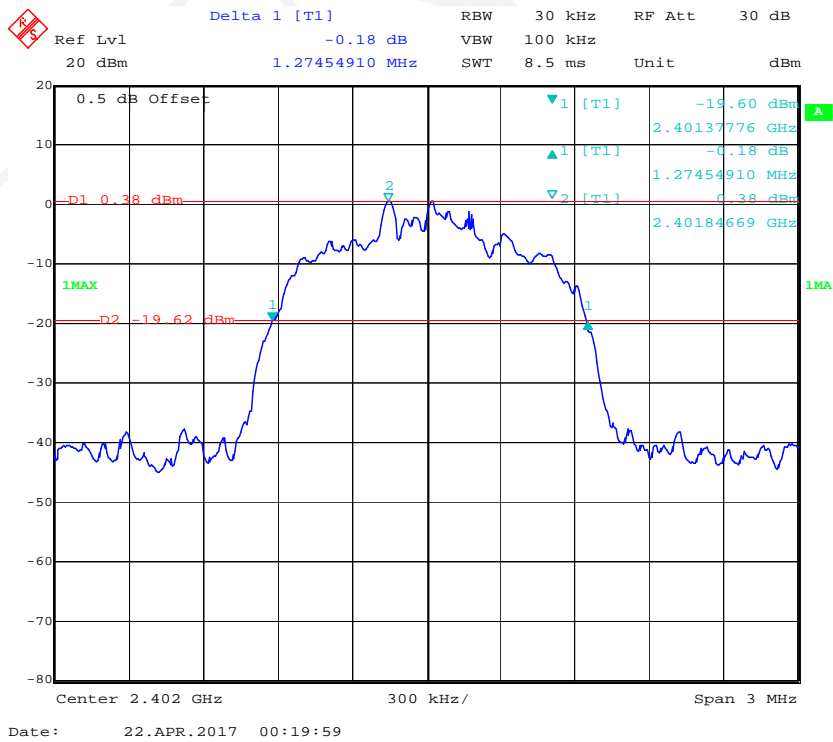
Date: 22.APR.2017 00:16:52

High Channel

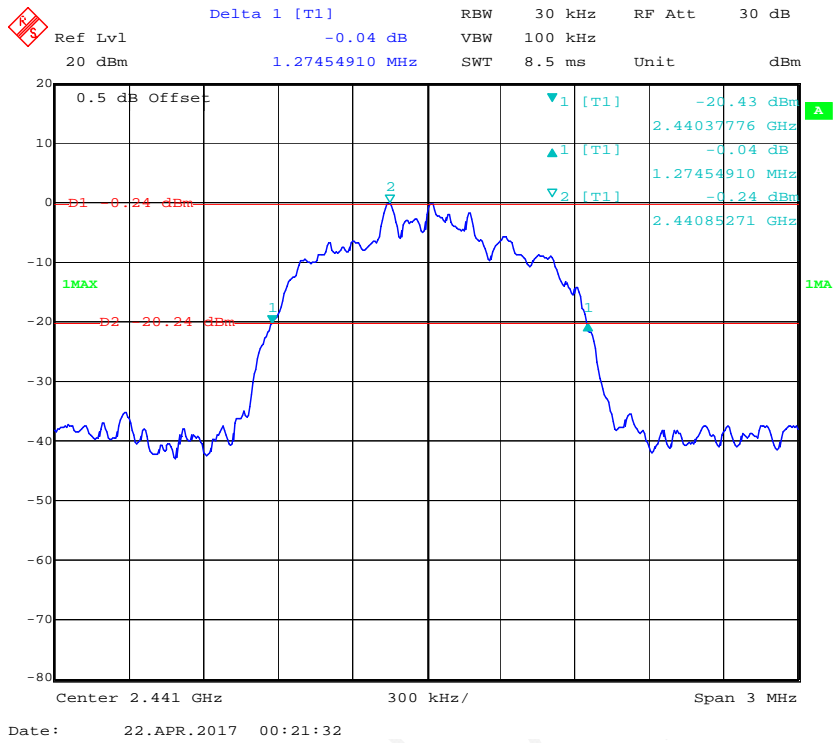


EDR Mode (8-DPSK):

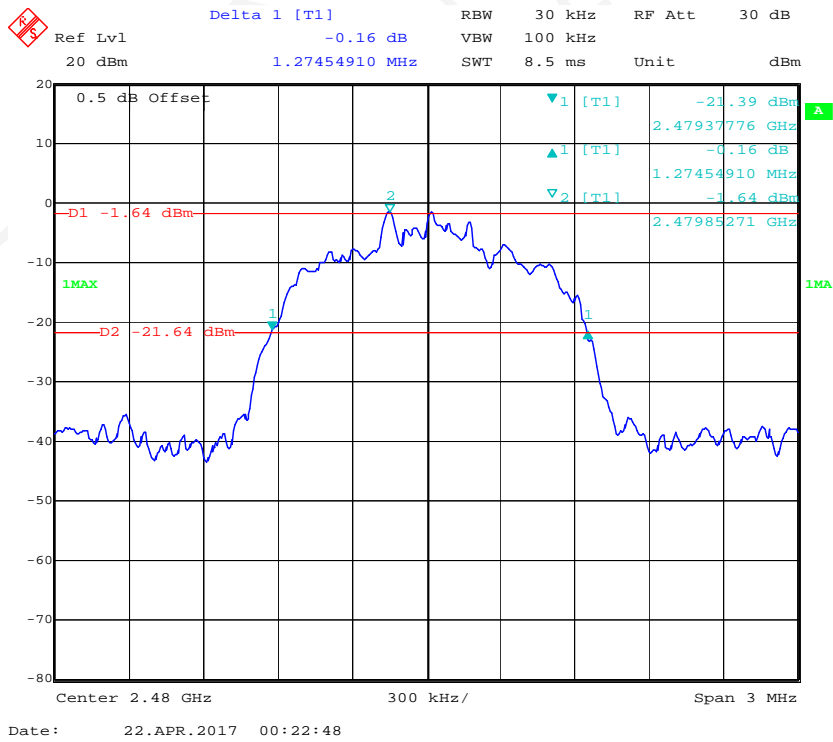
Low Channel



Middle Channel



High Channel



FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the Max-Hold function record the Quantity of the channel.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Cable	Unknown	C-5	Each Time	/

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

Temperature:	20.2°C
Relative Humidity:	50.1 %
ATM Pressure:	100.4 kPa

* The testing was performed by Kevin Hu on 2017-04-22.

Test Result: Compliance.

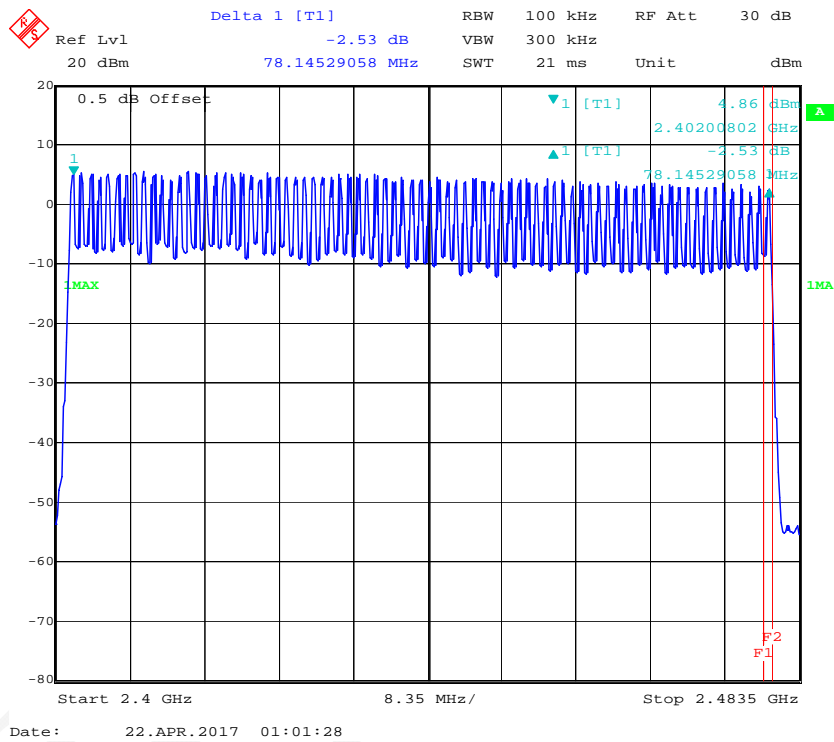
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

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

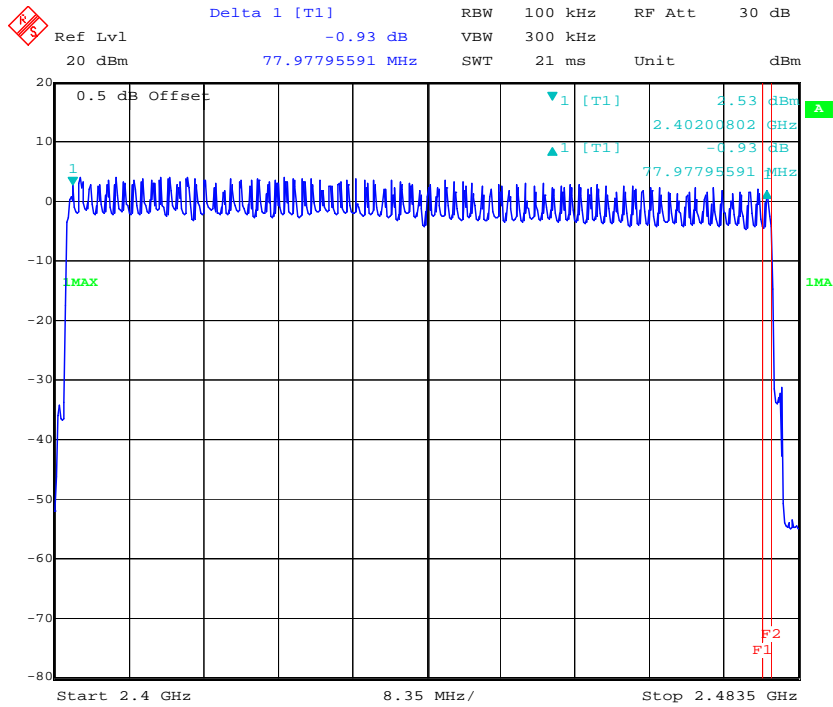
Number of Hopping Channels



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

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

Number of Hopping Channels

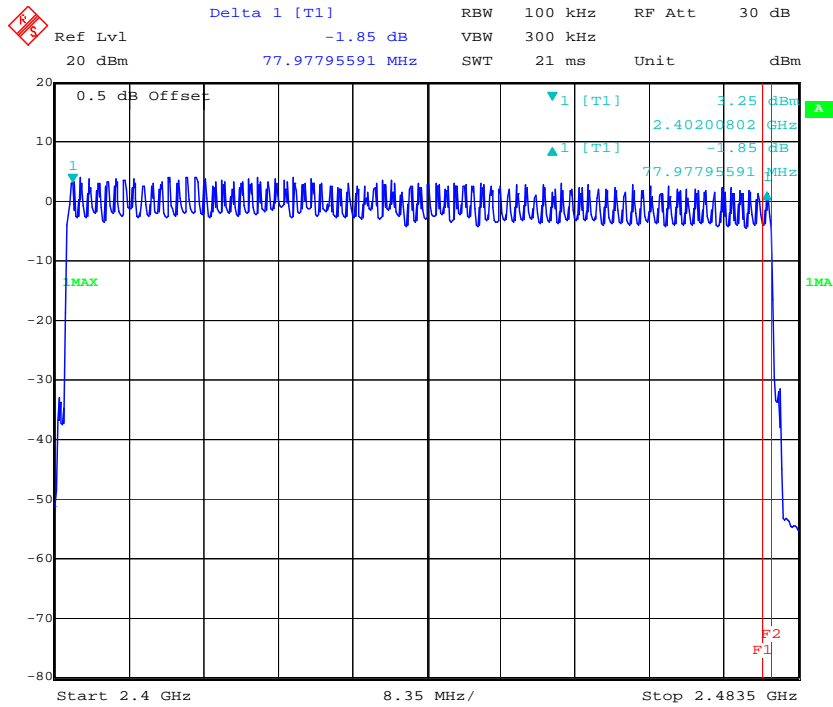


Date: 22.APR.2017 01:05:21

EDR Mode (8-DPSK):

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

Number of Hopping Channels



Date: 22.APR.2017 01:10:17

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

The EUT was worked in channel hopping; Spectrum SPAN was set as 0. Sweep was set as 0.4 * channel no. (s), the quantity of pulse was get from single sweep. In addition, the time of single pulses was tested.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Cable	Unknown	C-5	Each Time	/

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

Temperature:	20.2 °C
Relative Humidity:	50.1 %
ATM Pressure:	100.4 kPa

* *The testing was performed by Kevin Hu on 2017-04-22.*

Test Result: Compliance.

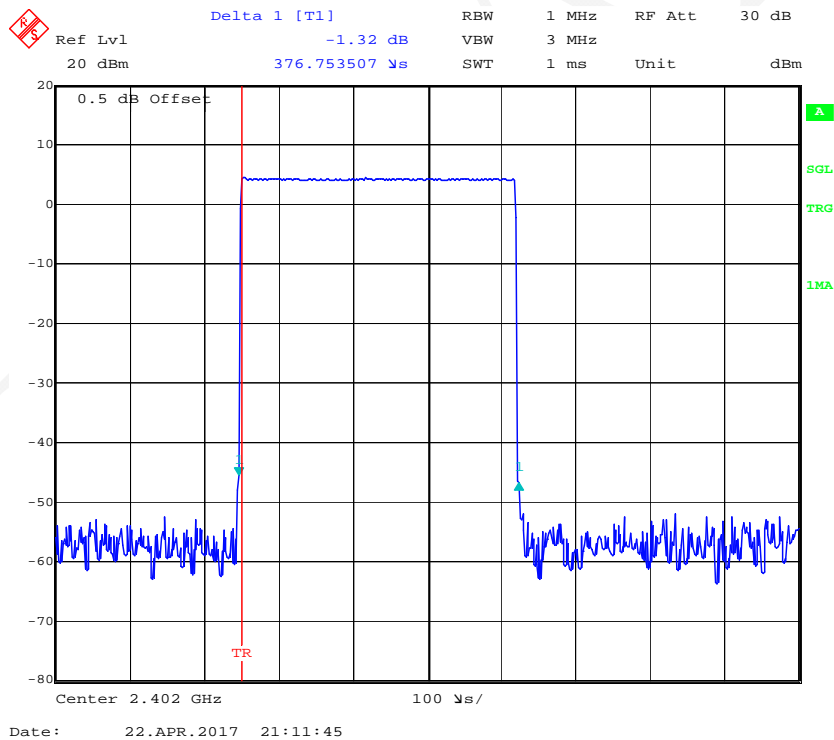
Please refer to following tables and plots

Test Mode: Transmitting


BDR Mode (GFSK):

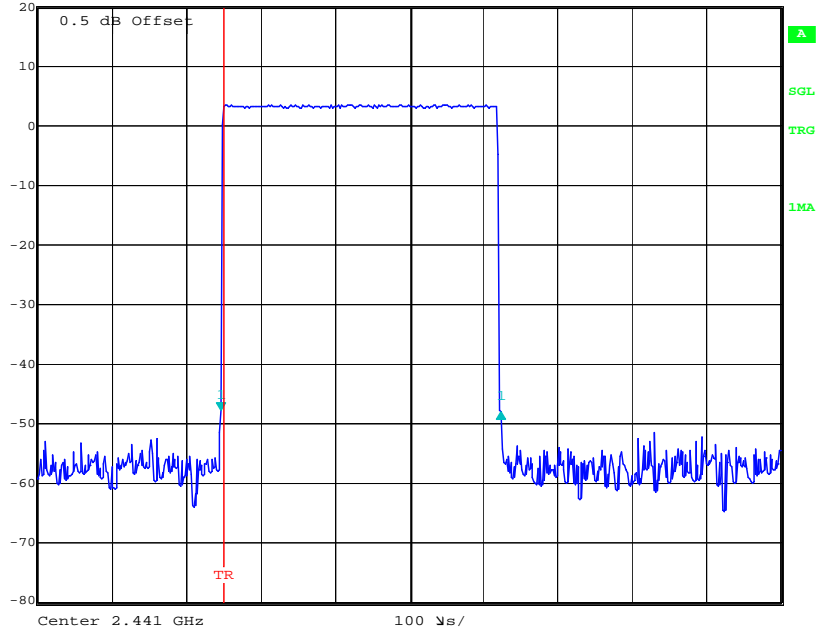
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH1	Low	0.377	0.121	0.4	Compliance
	Middle	0.377	0.121	0.4	Compliance
	High	0.377	0.121	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s				
DH3	Low	1.641	0.263	0.4	Compliance
	Middle	1.647	0.264	0.4	Compliance
	High	1.647	0.264	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s				
DH5	Low	2.896	0.309	0.4	Compliance
	Middle	2.896	0.309	0.4	Compliance
	High	2.906	0.31	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

DH1: Low Channel




DH1: Middle Channel

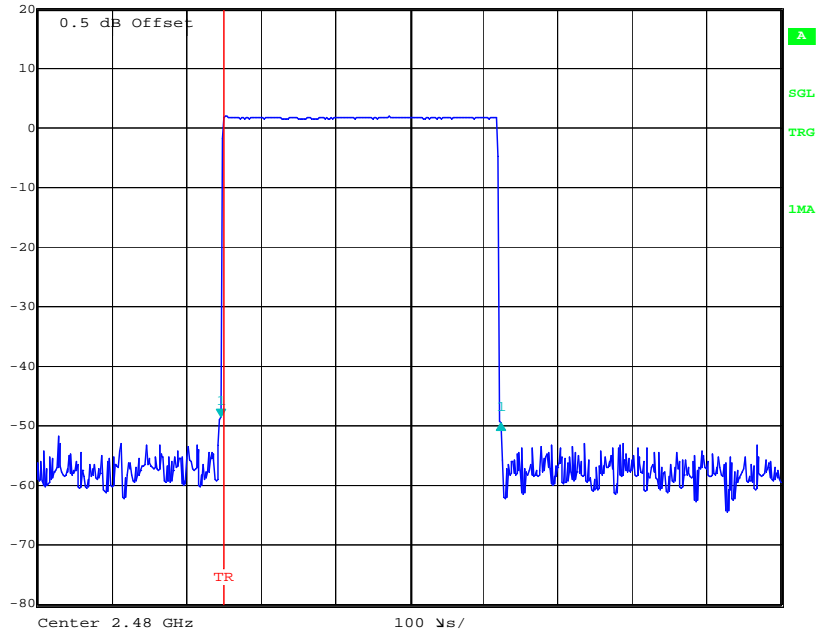
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl -0.36 dB VBW 3 MHz
20 dBm 376.753507 μ s SWT 1 ms Unit dBm



Date: 22.APR.2017 21:11:56


DH1: High Channel

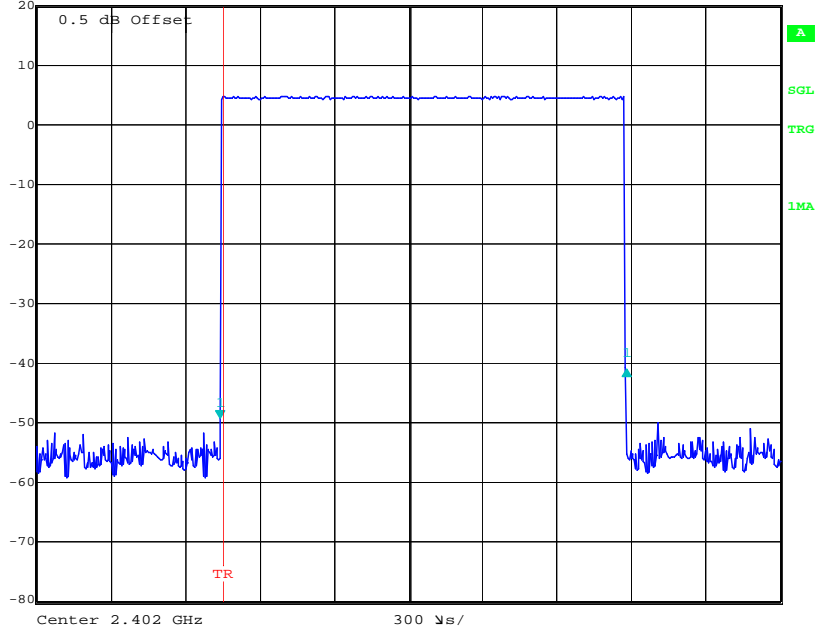
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl -0.95 dB VBW 3 MHz
20 dBm 376.753507 μ s SWT 1 ms Unit dBm



Date: 22.APR.2017 21:12:11


DH3: Low Channel

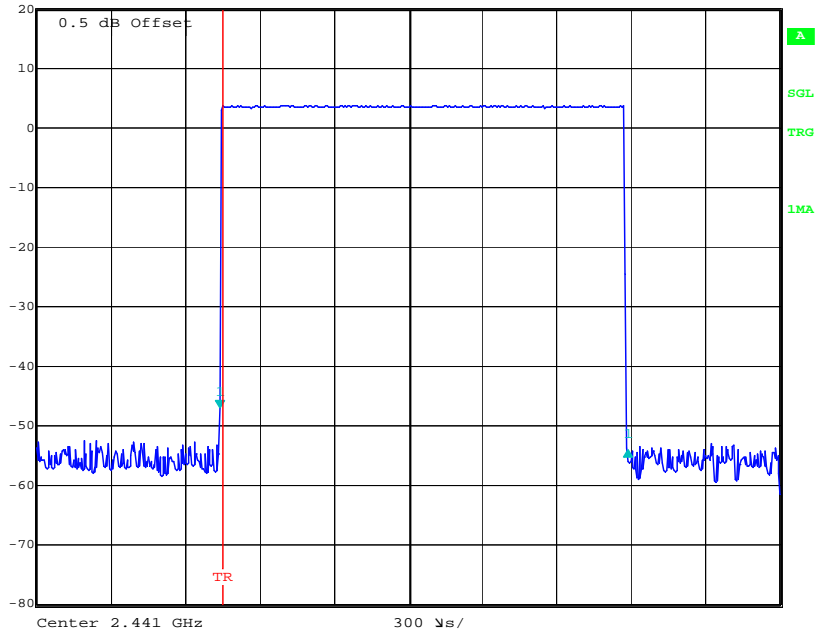
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 8.26 dB VBW 3 MHz
20 dBm 1.641283 ms SWT 3 ms Unit dBm



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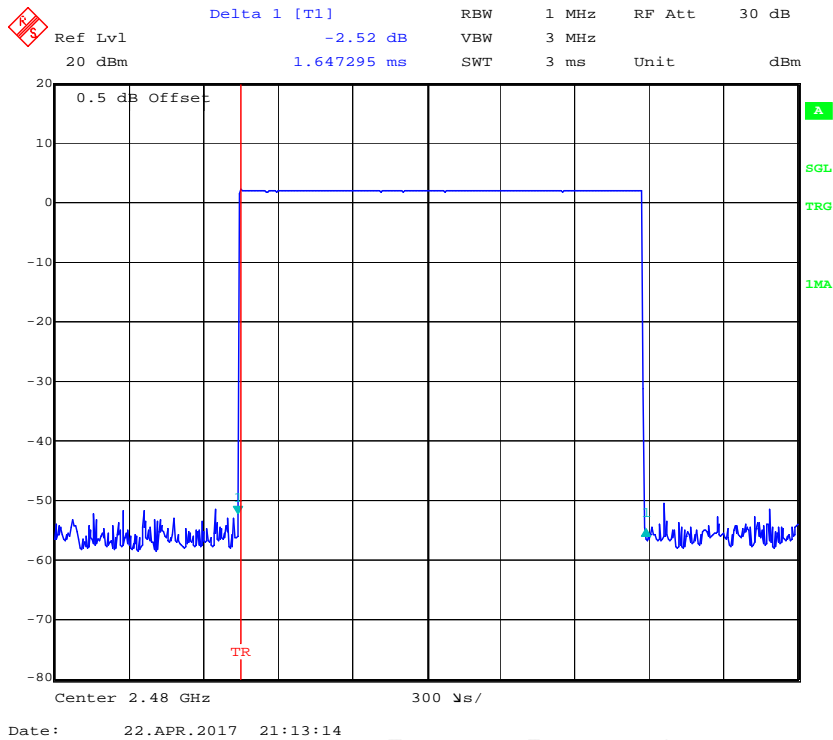
DH3: Middle Channel

 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl -7.02 dB VBW 3 MHz
20 dBm 1.647295 ms SWT 3 ms Unit dBm

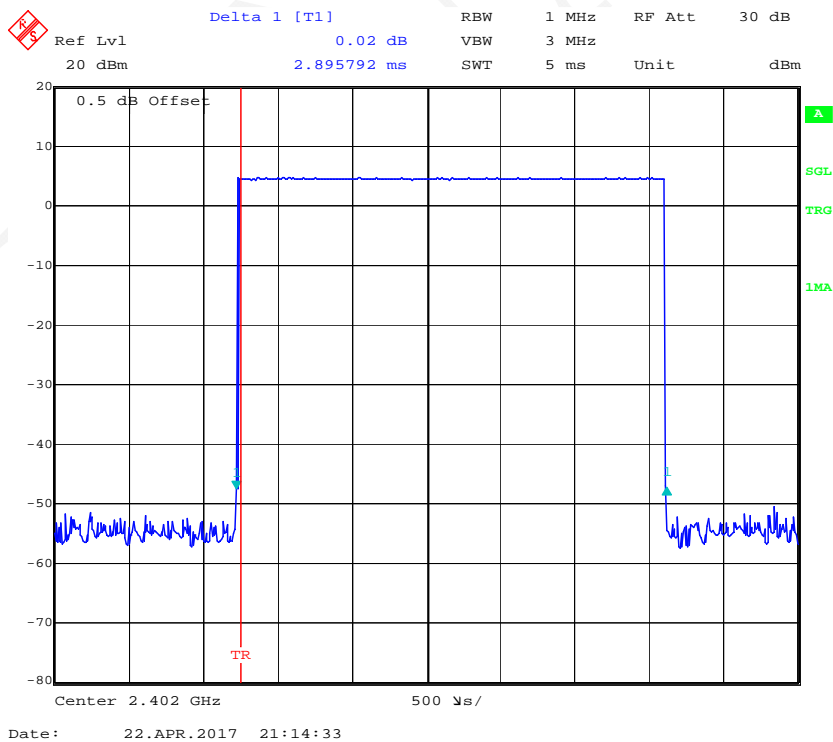


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DH3: High Channel



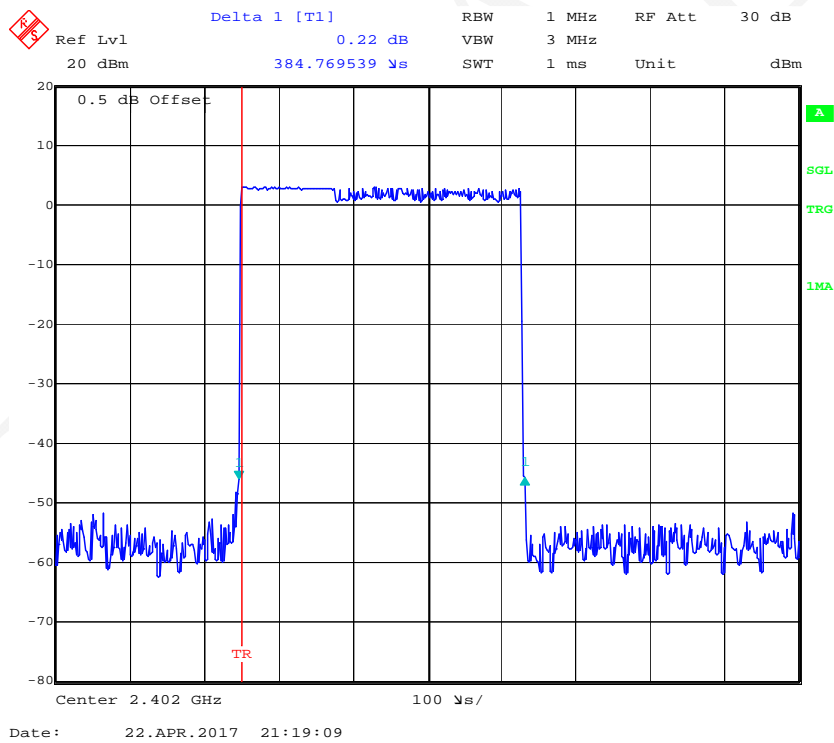
DH5: Low Channel




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

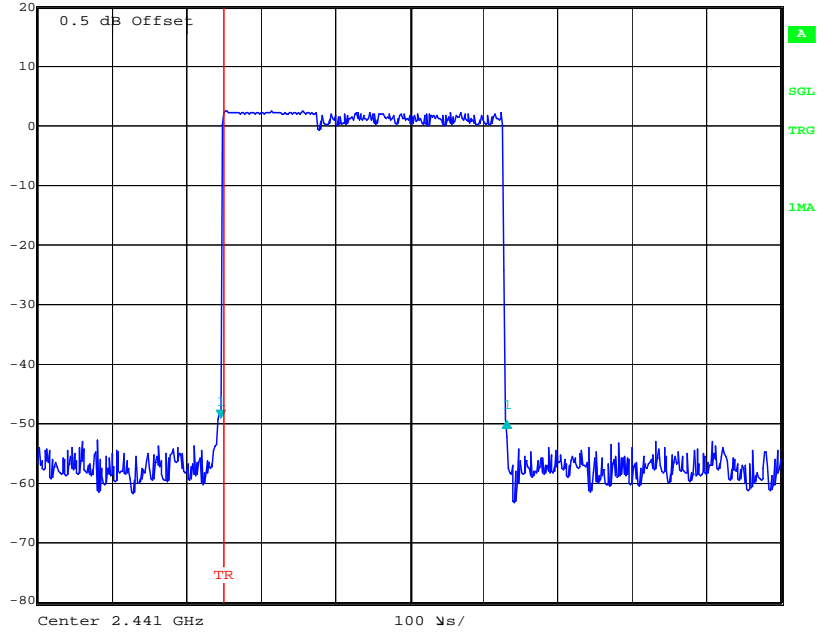
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
2DH1	Low	0.385	0.123	0.4	Compliance
	Middle	0.385	0.123	0.4	Compliance
	High	0.385	0.123	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s				
2DH3	Low	1.647	0.264	0.4	Compliance
	Middle	1.647	0.264	0.4	Compliance
	High	1.647	0.264	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s				
2DH5	Low	2.906	0.31	0.4	Compliance
	Middle	2.906	0.31	0.4	Compliance
	High	2.906	0.31	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

2DH1: Low Channel




2DH1: Middle Channel

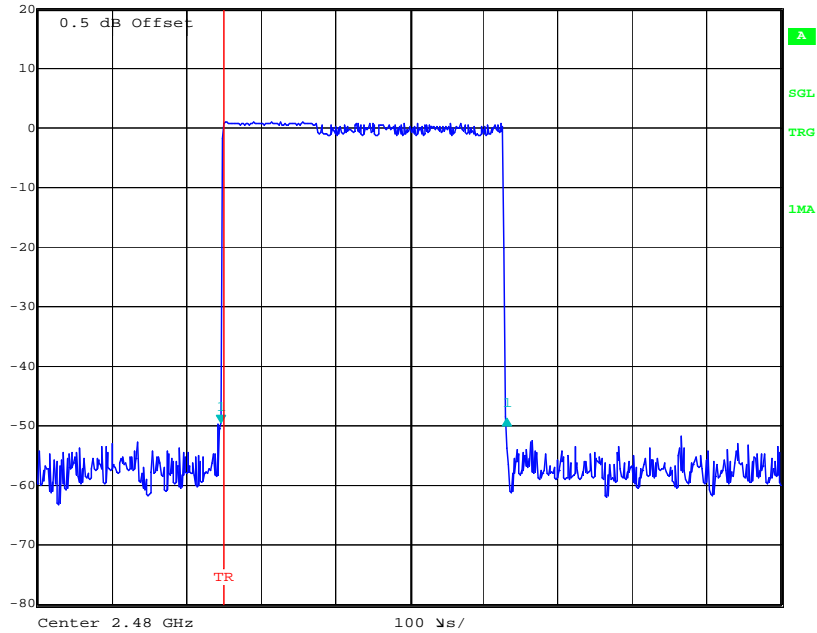
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl -0.73 dB VBW 3 MHz
20 dBm 384.769539 μ s SWT 1 ms Unit dBm



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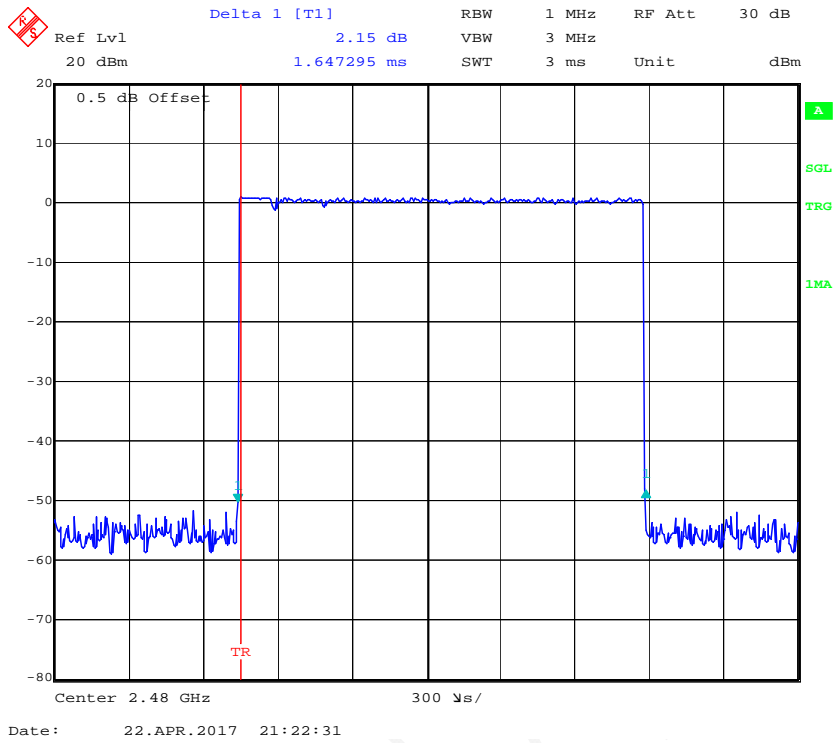
2DH1: High Channel

 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 0.74 dB VBW 3 MHz
20 dBm 384.769539 μ s SWT 1 ms Unit dBm

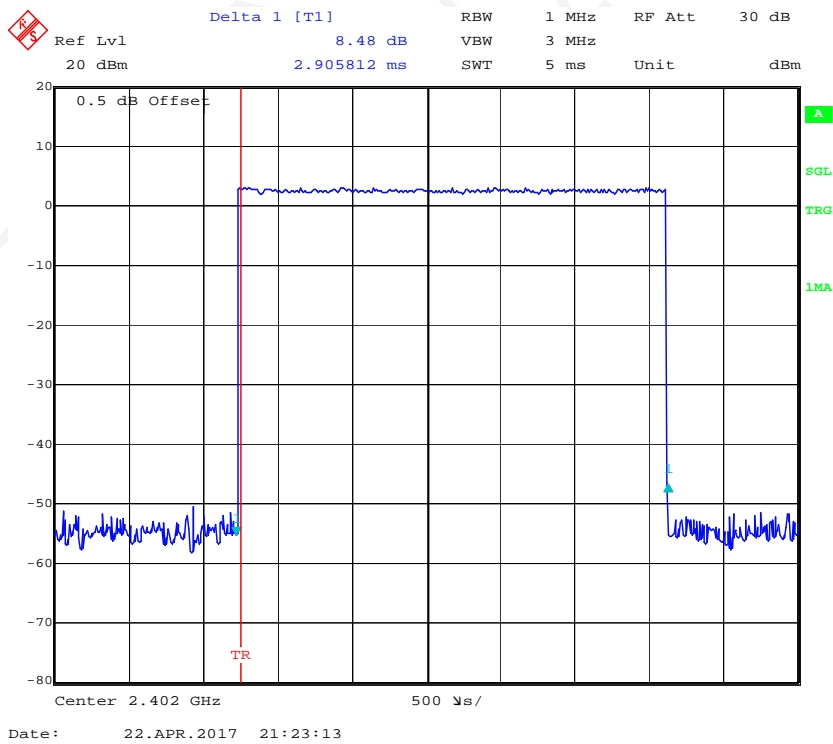


Date: 22.APR.2017 21:20:26


2DH3: High Channel

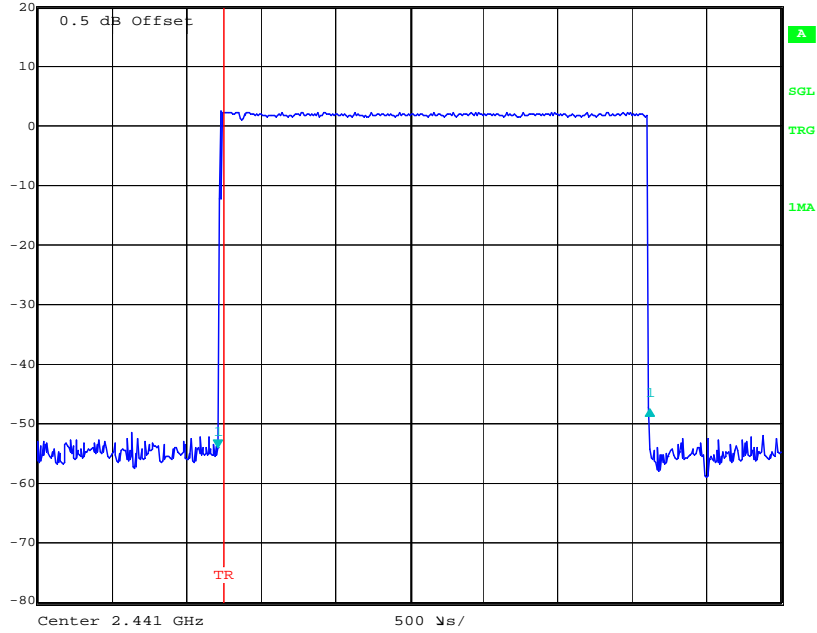


2DH5: Low Channel




2DH5: Middle Channel

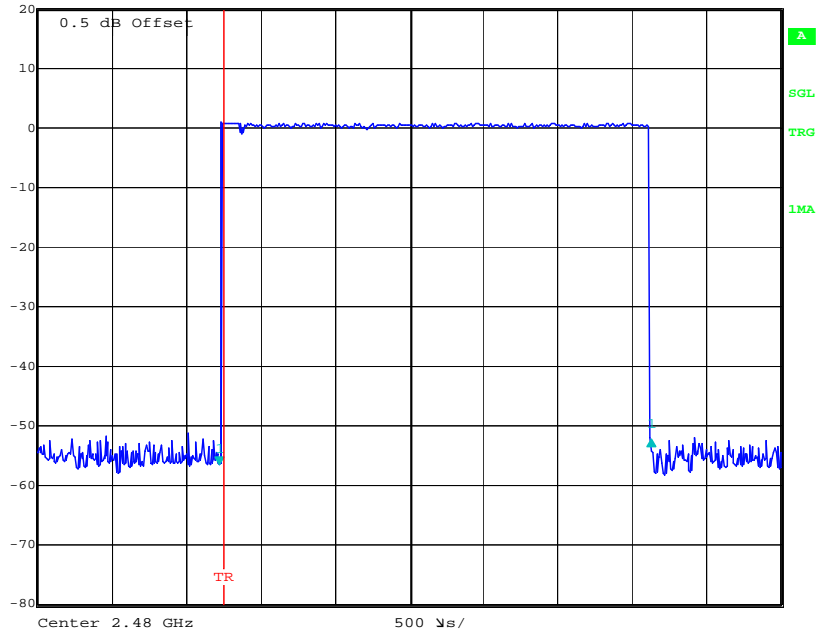
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 6.51 dB VBW 3 MHz
20 dBm 2.905812 ms SWT 5 ms Unit dBm



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2DH5: High Channel

 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 4.23 dB VBW 3 MHz
20 dBm 2.905812 ms SWT 5 ms Unit dBm

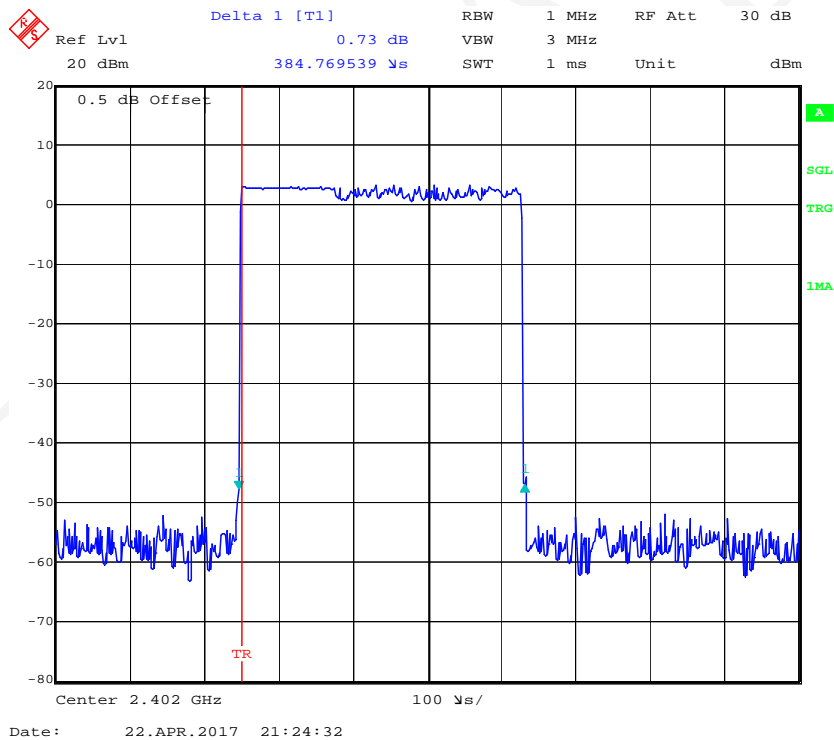


Date: 22.APR.2017 21:23:39


EDR Mode (8-DPSK):

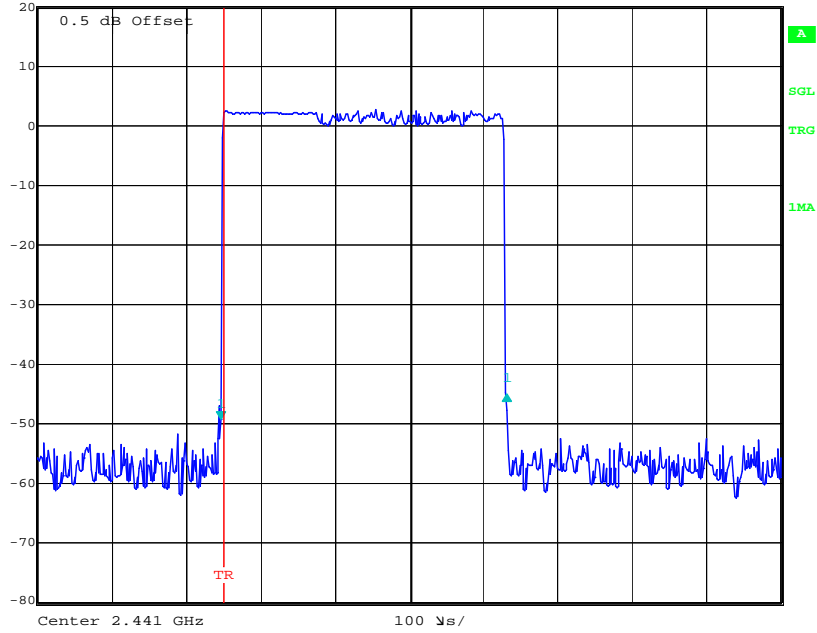
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
3DH1	Low	0.385	0.123	0.4	Compliance
	Middle	0.385	0.123	0.4	Compliance
	High	0.385	0.123	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s				
3DH3	Low	1.647	0.264	0.4	Compliance
	Middle	1.647	0.264	0.4	Compliance
	High	1.647	0.264	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s				
3DH5	Low	2.906	0.31	0.4	Compliance
	Middle	2.906	0.31	0.4	Compliance
	High	2.906	0.31	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

3DH1: Low Channel




3DH1: Middle Channel

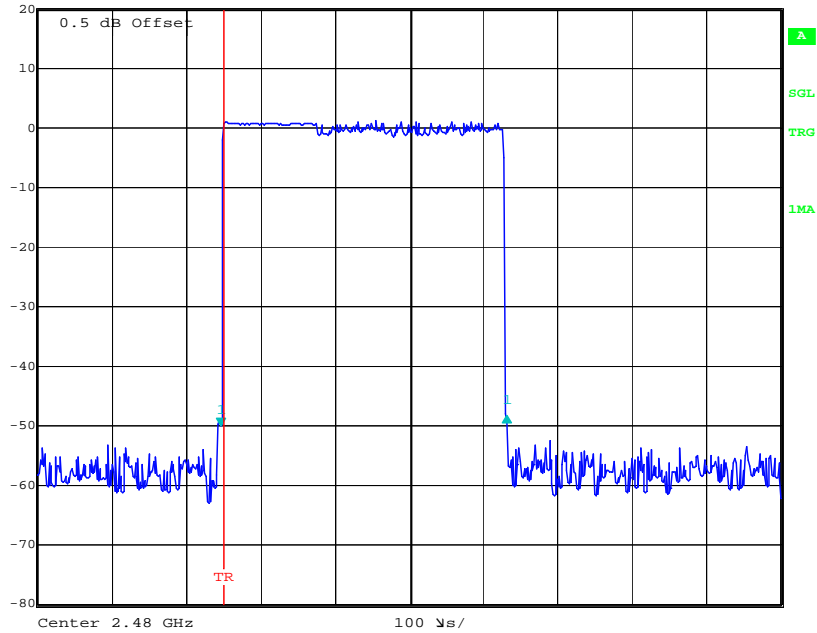
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 4.18 dB VBW 3 MHz
20 dBm 384.769539 μ s SWT 1 ms Unit dBm



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3DH1: High Channel

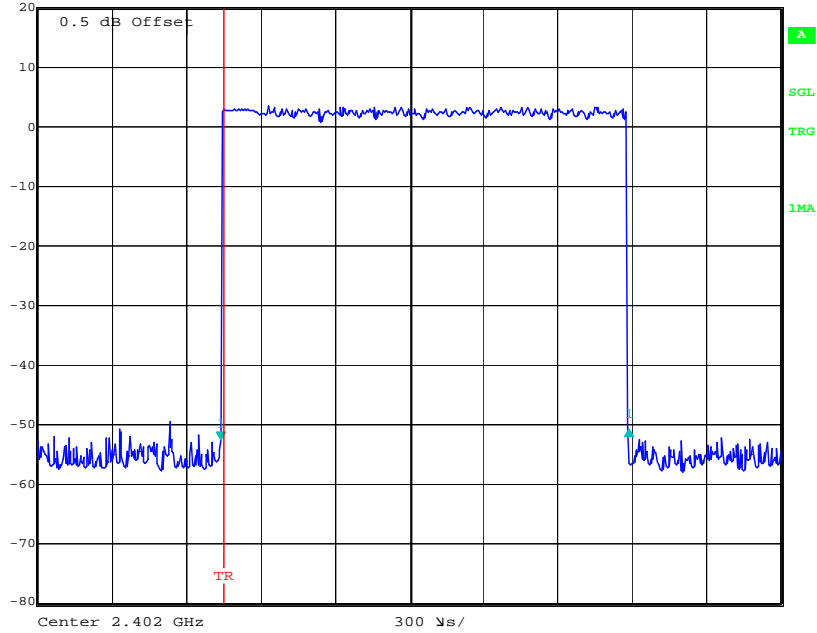
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 1.85 dB VBW 3 MHz
20 dBm 384.769539 μ s SWT 1 ms Unit dBm




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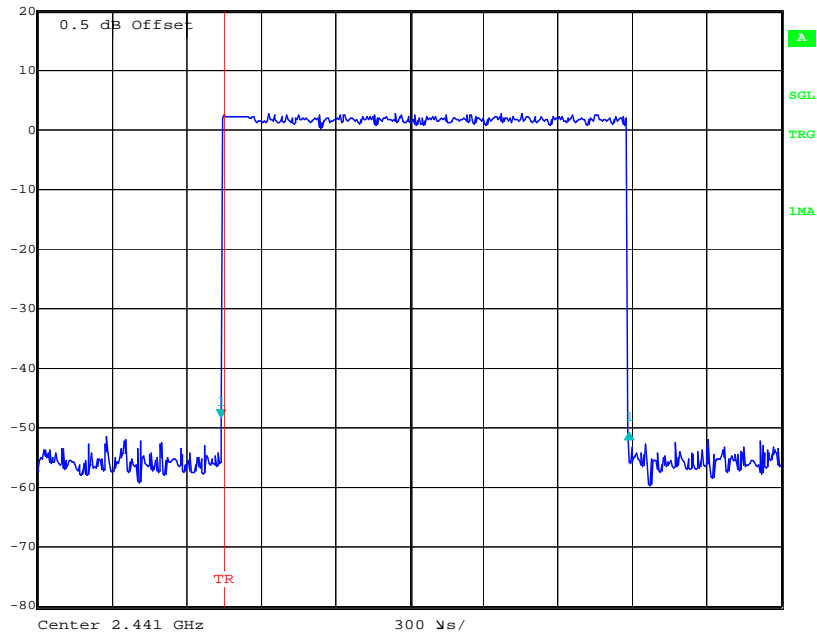
3DH3: Low Channel

 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 1.82 dB VBW 3 MHz
20 dBm 1.647295 ms SWT 3 ms Unit dBm

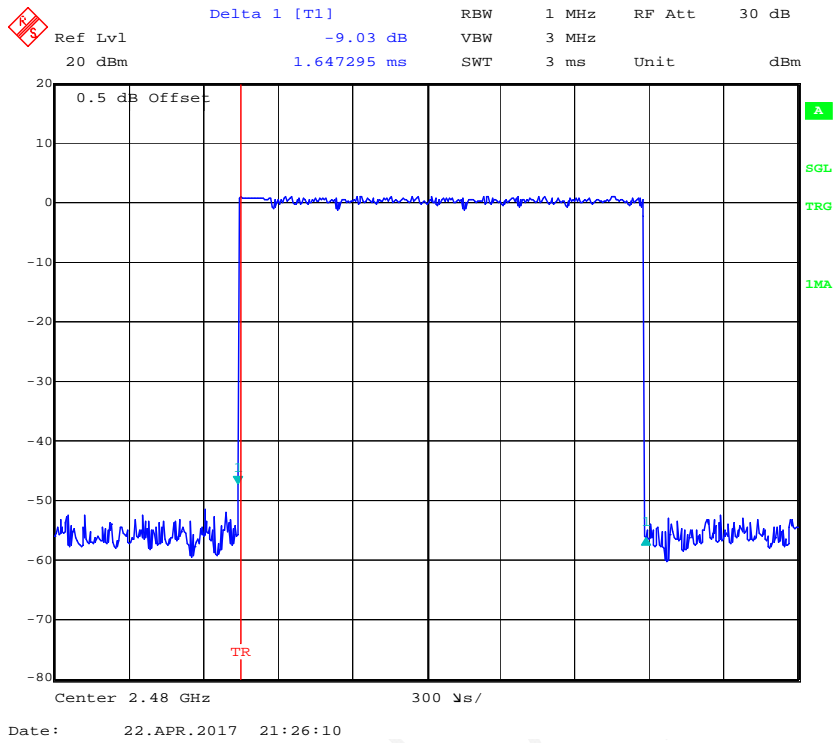


3DH3: Middle Channel

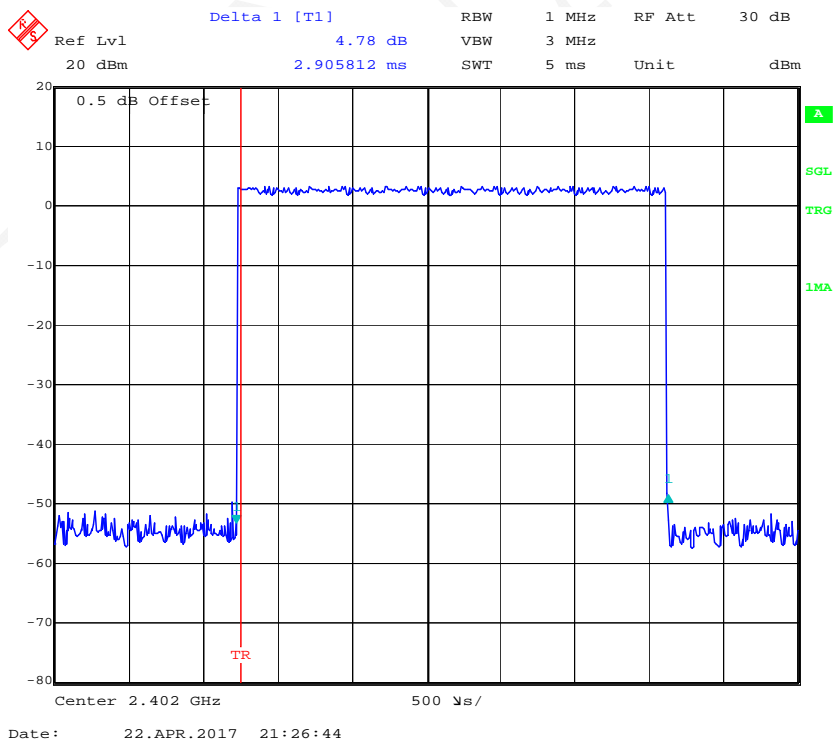
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl -2.70 dB VBW 3 MHz
20 dBm 1.647295 ms SWT 3 ms Unit dBm




3DH3: High Channel

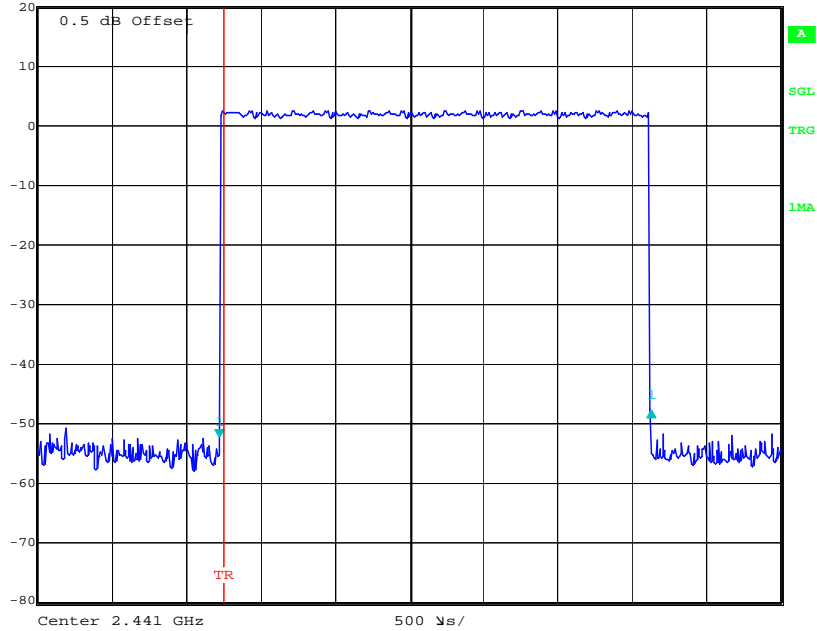


3DH5: Low Channel




3DH5: Middle Channel

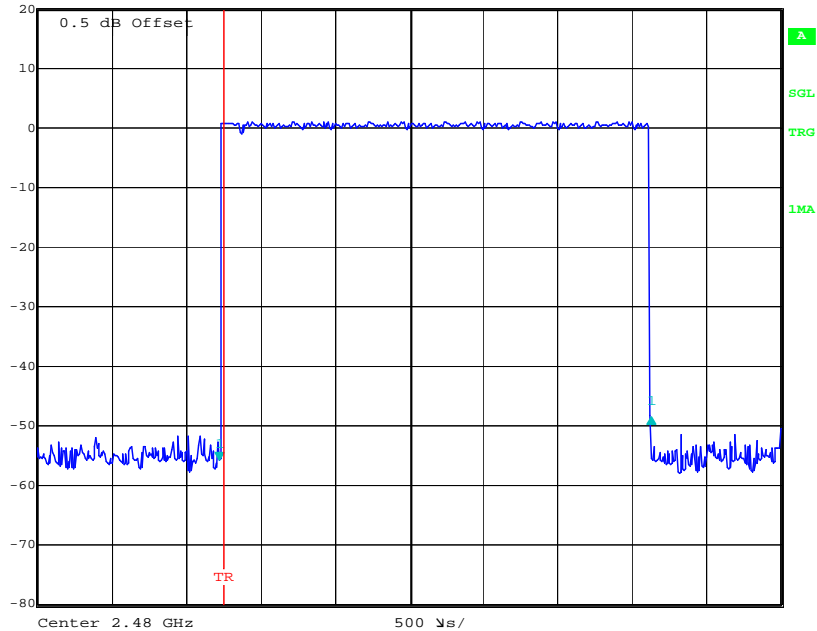
 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 4.58 dB VBW 3 MHz
20 dBm 2.905812 ms SWT 5 ms Unit dBm



Date: 22.APR.2017 21:26:54

3DH5: High Channel

 Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 7.22 dB VBW 3 MHz
20 dBm 2.905812 ms SWT 5 ms Unit dBm



Date: 22.APR.2017 21:27:05

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
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Cable	Unknown	C-5	Each Time	/

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B “Implementation of traceability policy in accredited laboratories”.

Test Data

Environmental Conditions

Temperature:	20.2 °C
Relative Humidity:	50.1%
ATM Pressure:	100.4 kPa

* The testing was performed by Kevin Hu on 2017-04-22.

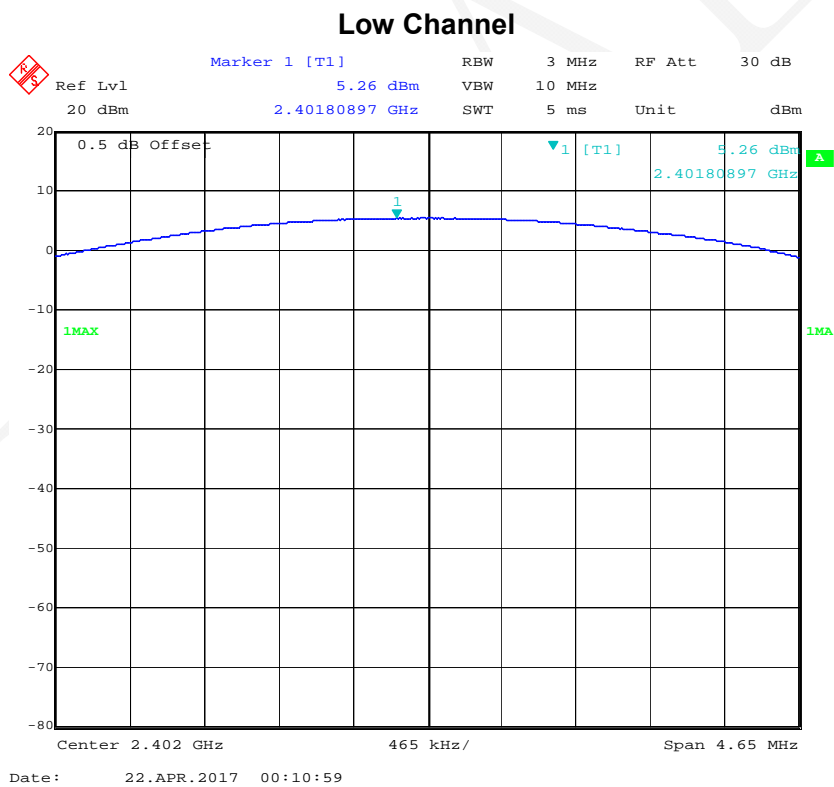
Test Result: Compliance.

Test Mode: Transmitting

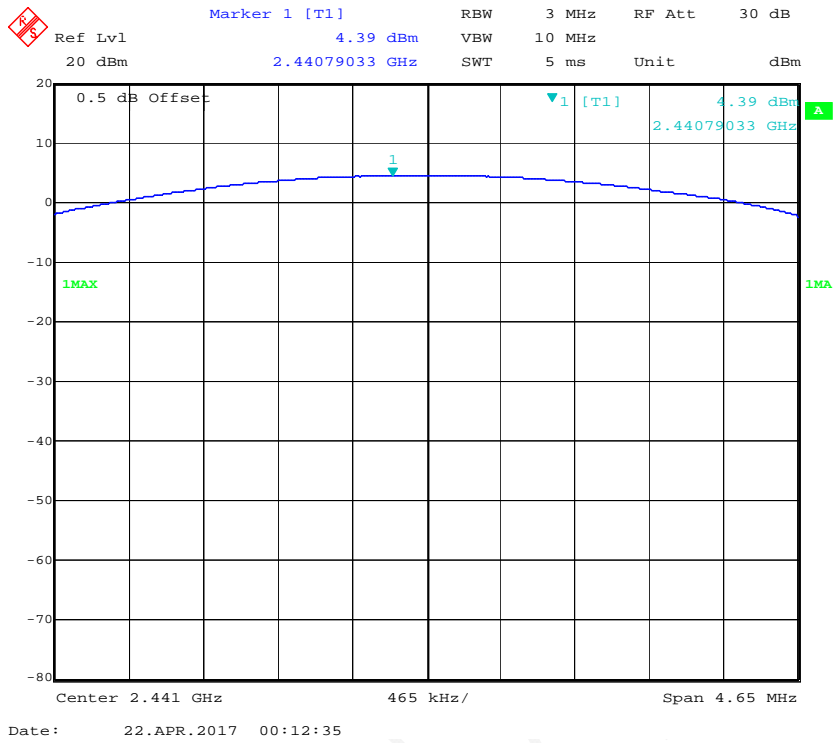
Mode	Frequency (MHz)	Peak Output power (dBm)	Limit (dBm)
BDR Mode (GFSK)	2402	5.26	30
	2441	4.39	30
	2480	2.75	30
EDR Mode ($\pi/4$ -DQPSK)	2402	4.13	30
	2441	3.5	30
	2480	2.01	30
EDR Mode (8-DPSK)	2402	4.65	30
	2441	3.88	30
	2480	2.26	30

Note: The data above was tested in conducted mode.

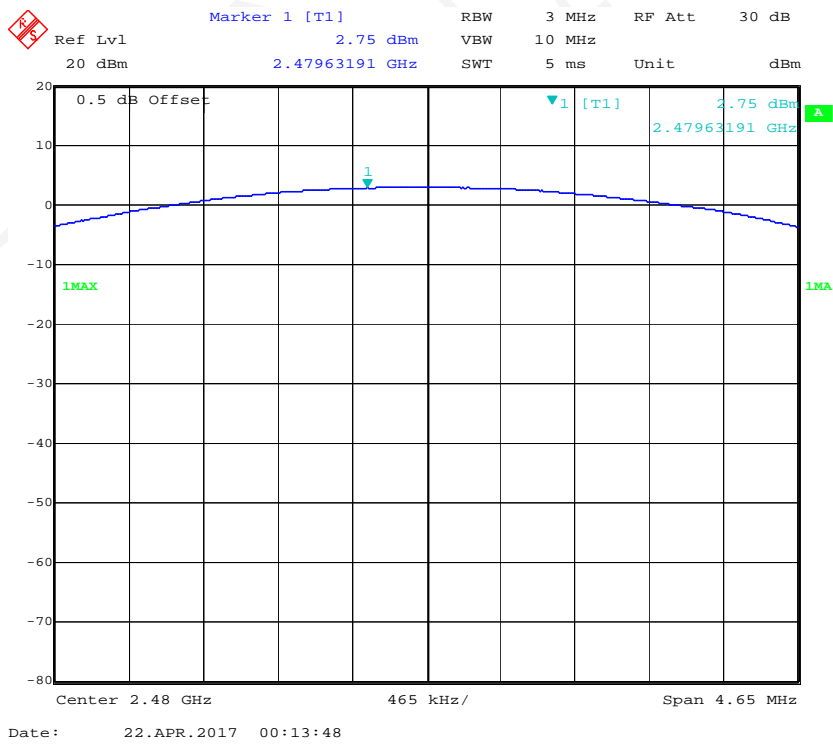
BDR Mode (GFSK):



Middle Channel

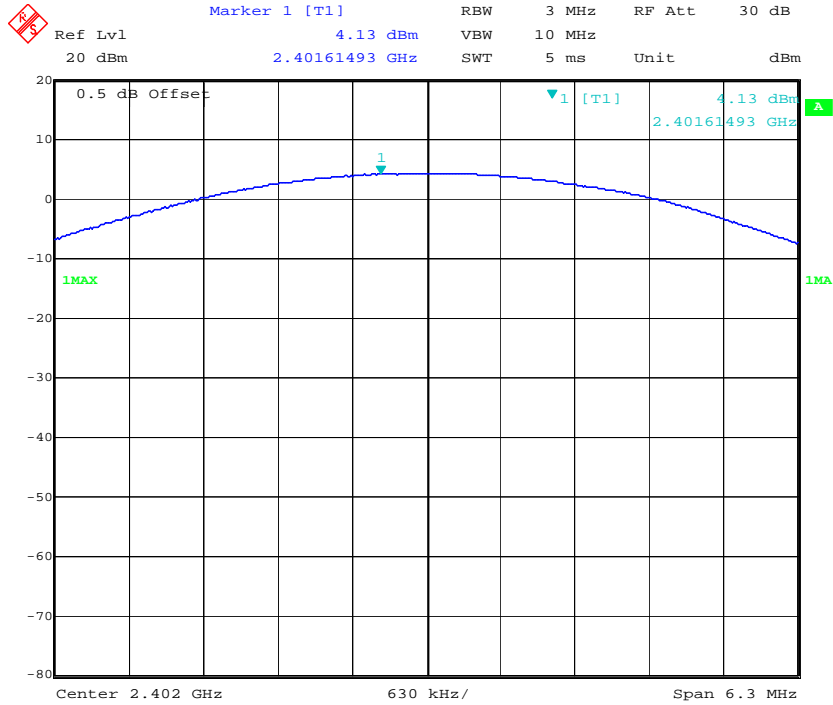


High Channel

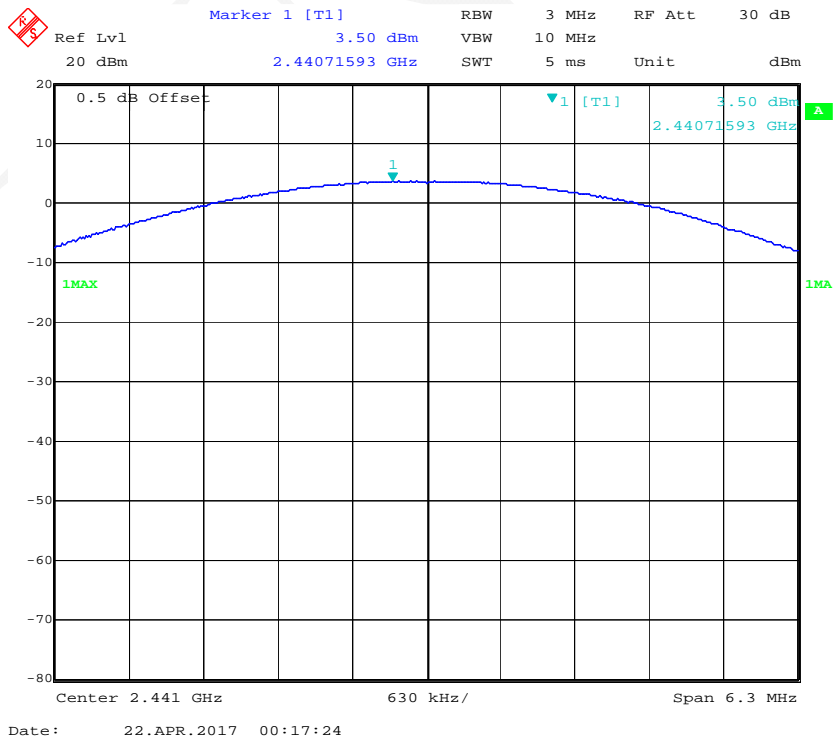


EDR Mode ($\pi/4$ -DQPSK):

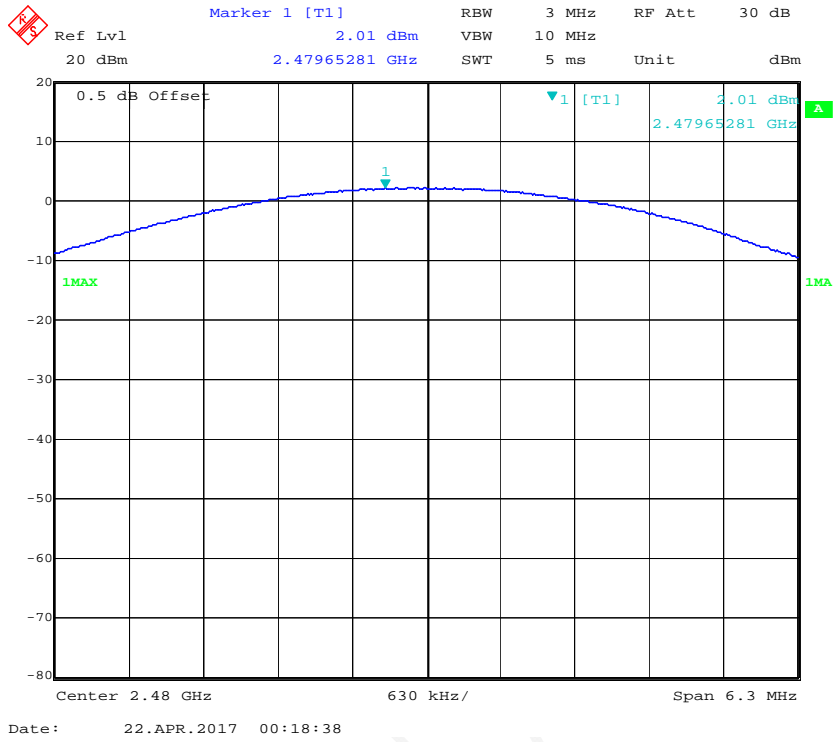
Low Channel



Middle Channel

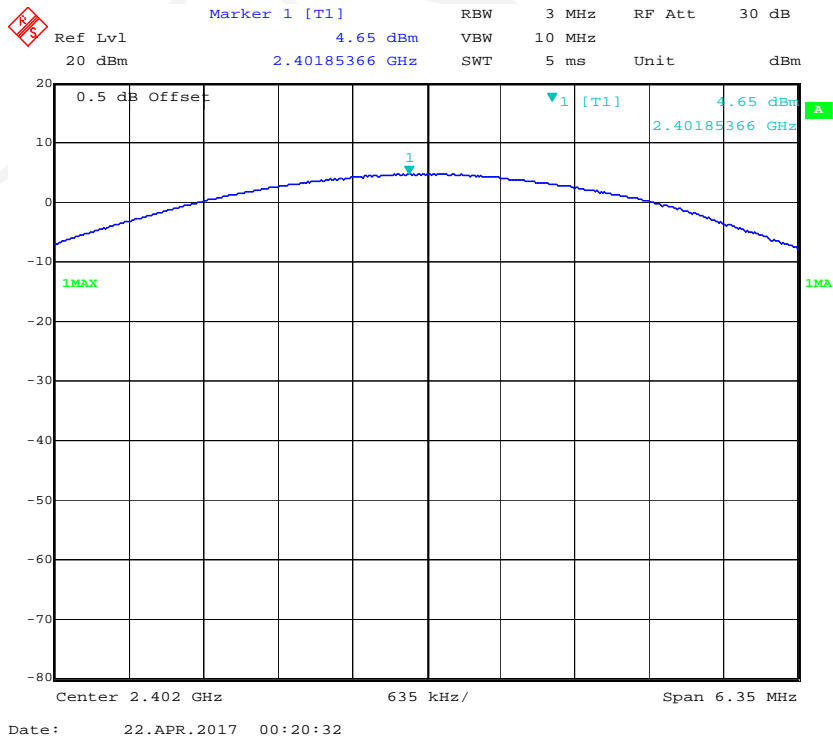


High Channel

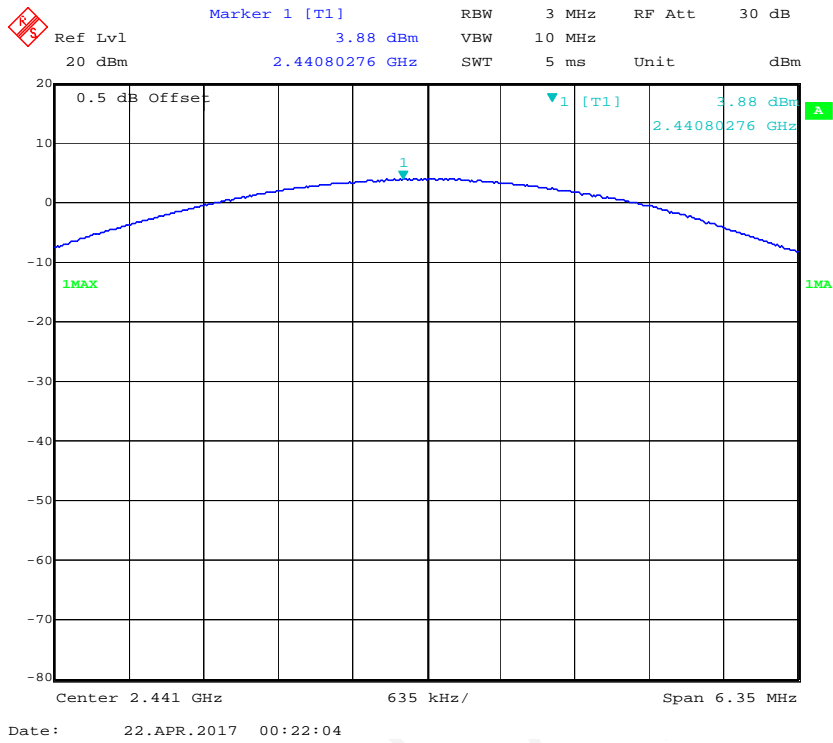


EDR Mode (8-DPSK):

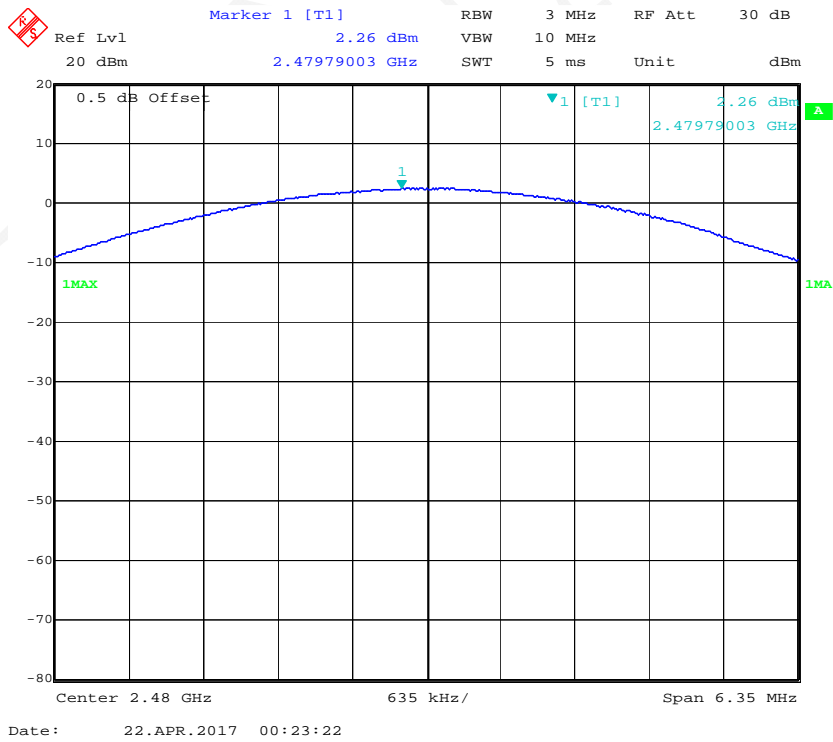
Low Channel



Middle Channel



High Channel



FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW/ 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
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
Unknown	RF Cable	Unknown	C-5	Each Time	/

* **Statement of Traceability:** BACL(Chengdu) attests that all of the calibrations on the equipment items listed above were traceable to NIM or to another internationally recognized National Metrology Institute (NMI), and were compliant with the NIST HB 150-2016 Normative Annex B "Implementation of traceability policy in accredited laboratories".

Test Data

Environmental Conditions

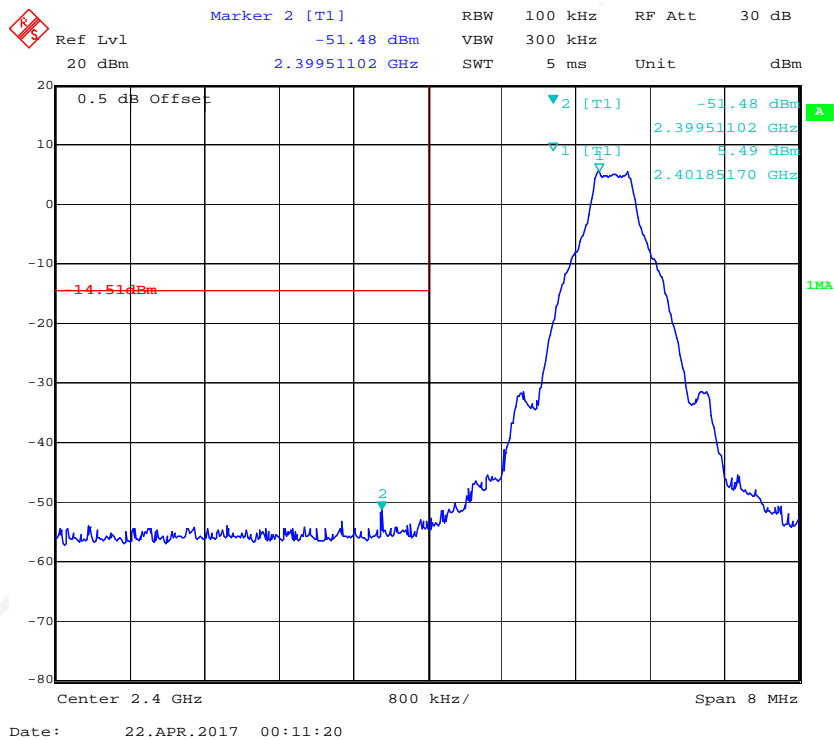
Temperature:	20.2°C
Relative Humidity:	50.1%
ATM Pressure:	100.4 kPa

* The testing was performed by Kevin Hu on 2017-04-22.

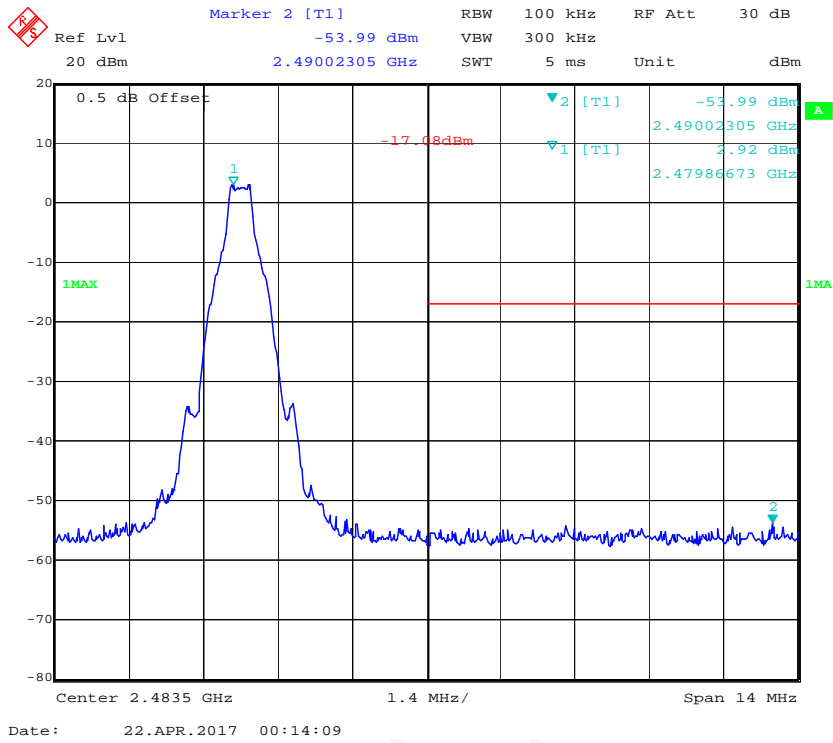
Test Result: Compliance

BDR Mode (GFSK):

Band Edge, Left Side

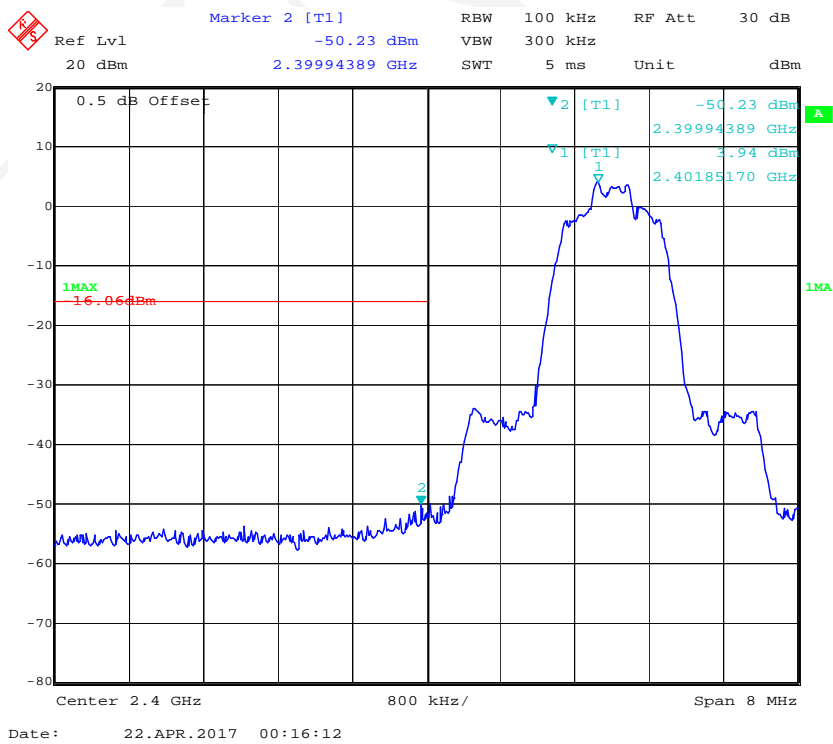


Band Edge, Right Side

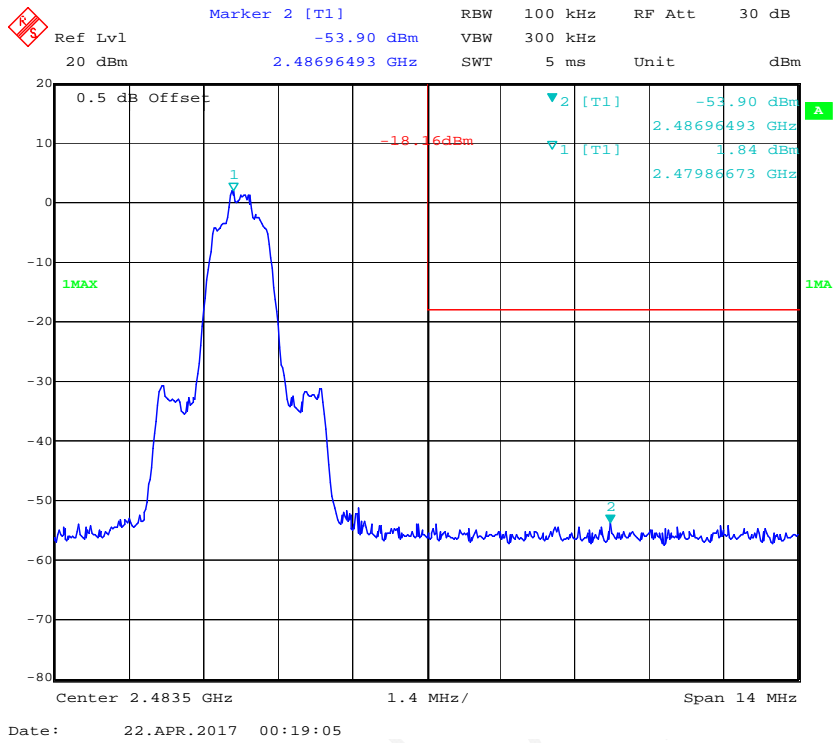


EDR Mode ($\pi/4$ -DQPSK):

Band Edge, Left Side

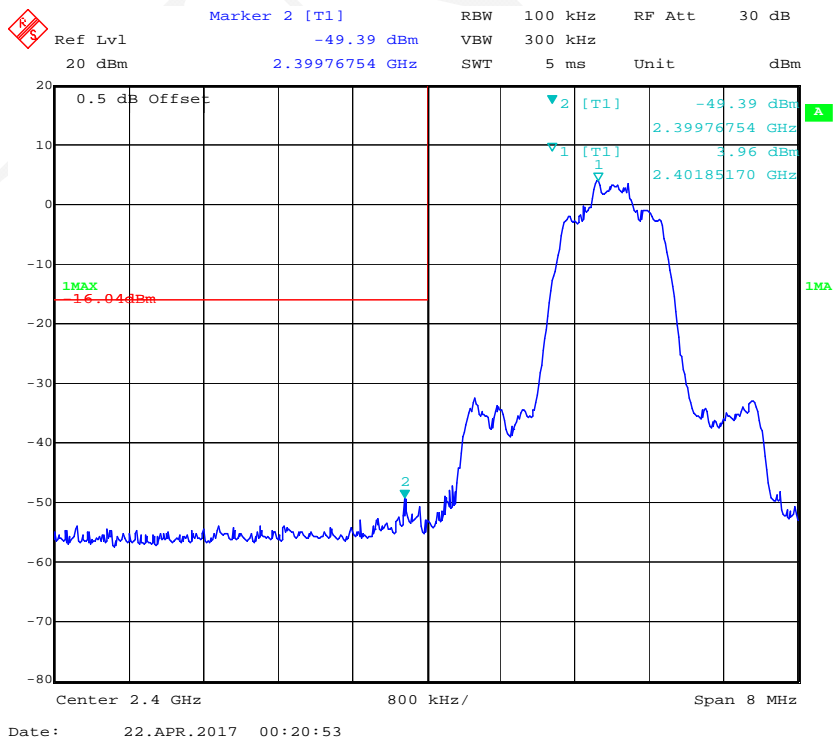


Band Edge, Right Side

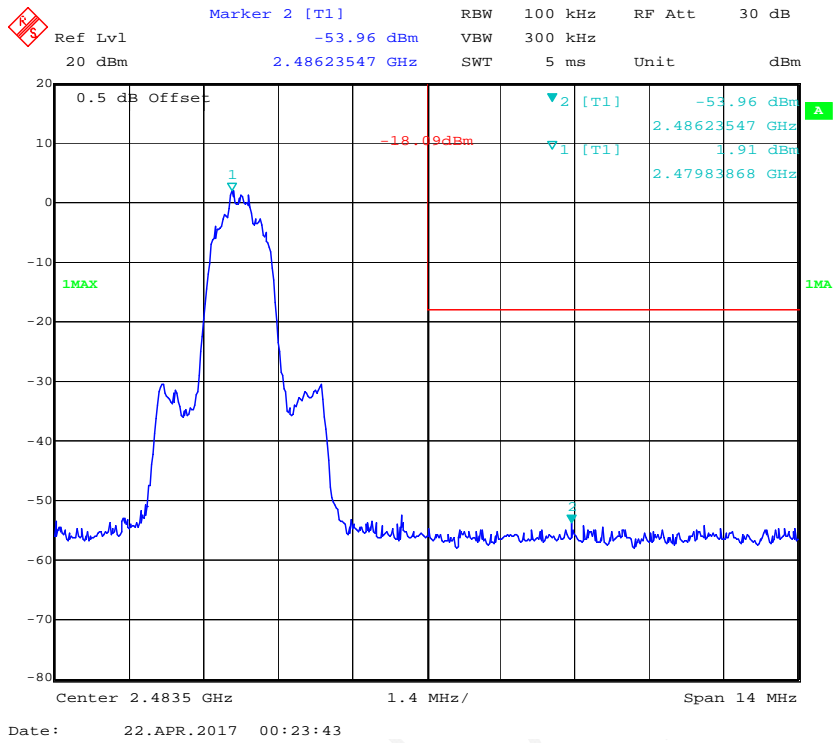


EDR Mode (8-DPSK):

Band Edge, Left Side



Band Edge, Right Side



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