

FCC PART 15.247 TEST REPORT

For

SHENZHEN LOFREE CULTURE CO., LTD

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FCC ID: 2AC59EP203

Report Type: **Product Name:**

POISON M BLUETOOTH SPEAKER Original Report

Report Number: RDG170821006-00B

Report Date: 2017-08-30

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Reviewed By:

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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The SHENZHEN LOFREE CULTURE CO., LTD's product, model number: EP203(FCC ID: 2AC59EP203) (the "EUT") in this report was a POISON M BLUETOOTH SPEAKER, which was measured approximately: 18.4 cm (L) x 10.5 cm (W) x7.0 cm (H), rated input voltage: DC7.4V from Battery or DC 5V from USB port.

Note: The series product model EP205,EP207,EP303,EP305,EP307are electrically identical with the tested model EP203 Wireless, we selected EP203 Wireless for fully testing. The difference between them was explained in the attached declaration letter.

*All measurement and test data in this report was gathered from production sample serial number: 170821006 (Assigned by BACL,Dongguan). The EUT was received on 2017-08-21.

Objective

This report is prepared on behalf of *SHENZHEN LOFREE CULTURE CO., LTD* 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)

N/A

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
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical 1G~6GHz: 4.45 dB, 6G~26.5GHz: 5.23 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1℃
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

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

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

EUT Exercise Software

Test software: 'AppoTech RF Control Kit V4.0' was used in test, the system configured maximum power level as below setting:

Test Software Version	AppoTech RF Control Kit V4.0						
Test Frequency	2402MHz 2441MHz 2480MHz						
GFSK	7 7 7						
π /4-DQPSK	π /4-DQPSK 7		7				
8DPSK	7	7	7				

Equipment Modifications

No modification was made to the EUT.

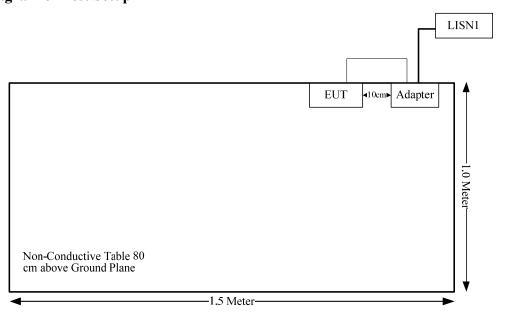
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
HUAWEI	Adapter	HW-050200C01	N/A

External Cable

Cable Description	Shielding Type	Ferrite Core Length (m)		From	То
USB Cable	Yes	No	1	Adapter	EUT

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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The max conducted power including tune-up tolerance is -2.0 dBm (0.63 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] = 0.63/5*($\sqrt{2.480}$) = 0.2< 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 1.2 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.

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:

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Description Model Serial Number		Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	MI Test Receiver ESCS 30 830245/006		2016-12-08	2017-12-08
R&S	L.I.S.N	ESH2-Z5 892107/021		2016-09-01	2017-09-01
R&S	Two-line V-network	ENV 216	3560.6550.12	2016-12-08	2017-12-08
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
Unknown	Coaxial Cable	2m	Con-1	2016-09-01	2017-09-01

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

Test Data

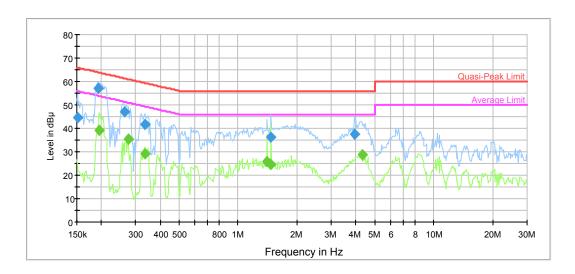
Environmental Conditions

Temperature:	27.6 °C
Relative Humidity:	45%
ATM Pressure:	100.5 kPa

The testing was performed by Ade Xiao on 2017-08-29.

Test Mode: Transmitting

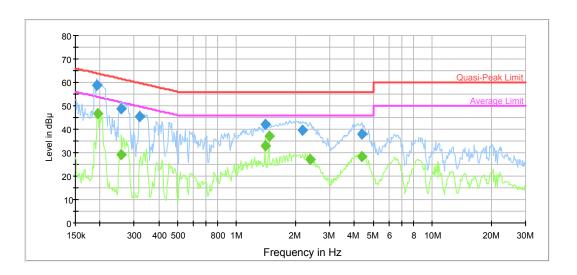
AC120V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.151200	44.5	9.000	L1	11.2	21.4	65.9	Compliance
0.192030	57.2	9.000	L1	10.7	6.7	63.9	Compliance
0.262017	47.0	9.000	L1	10.3	14.4	61.4	Compliance
0.335433	41.8	9.000	L1	10.1	17.5	59.3	Compliance
1.476605	36.4	9.000	L1	9.7	19.6	56.0	Compliance
3.934683	37.3	9.000	L1	9.8	18.7	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.195114	39.2	9.000	L1	10.7	14.6	53.8	Compliance
0.274848	35.4	9.000	L1	10.2	15.6	51.0	Compliance
0.335433	29.2	9.000	L1	10.1	20.1	49.3	Compliance
1.407671	25.9	9.000	L1	9.7	20.1	46.0	Compliance
1.476605	24.6	9.000	L1	9.7	21.4	46.0	Compliance
4.295123	28.6	9.000	L1	9.8	17.4	46.0	Compliance

AC120V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.192030	58.6	9.000	N	10.7	5.3	63.9	Compliance
0.257874	48.7	9.000	N	10.3	12.8	61.5	Compliance
0.319773	45.2	9.000	N	10.1	14.5	59.7	Compliance
1.396499	42.1	9.000	N	9.7	13.9	56.0	Compliance
2.181877	39.7	9.000	N	9.8	16.3	56.0	Compliance
4.364119	37.7	9.000	N	9.8	18.3	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.195114	46.8	9.000	N	10.6	7.0	53.8	Compliance
0.257874	29.1	9.000	N	10.3	22.4	51.5	Compliance
1.396499	32.8	9.000	N	9.7	13.2	46.0	Compliance
1.464886	36.9	9.000	N	9.7	9.1	46.0	Compliance
2.381750	27.3	9.000	N	9.8	18.7	46.0	Compliance
4.364119	28.4	9.000	N	9.8	17.6	46.0	Compliance

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

Applicable Standard

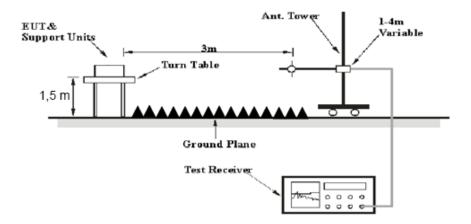
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 10 meters chamber test site for 30-1000MHz, and 3 meters chamber test site for 1-25GHz 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
Above I GHZ	1MHz	10 Hz	/	AV

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, peak and average detection modes for frequencies above 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2016-09-01	2017-08-31
Sunol Sciences	Antenna	JB3	A060611-1	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2016-09-01	2017-09-01
R&S	Spectrum Analyzer	FSU 26	200256	2016-12-08	2017-12-08
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-02 1304	2017-06-16	2020-06-15
Mini-Circuit	Amplifier	ZVA-213-S+	SN054201245	2017-02-19	2018-02-19
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2016-09-06	2017-09-06
Unknown	Coaxial Cable	Chamber 10-1	14m	2016-09-01	2017-09-01
Unknown	Coaxial Cable	Chamber B-1	0.75m	2016-09-01	2017-09-01
Unknown	Coaxial Cable	Chamber 10-2	0.75m	2016-09-01	2017-09-01
Unknown	Coaxial Cable	Chamber B-2	8m	2016-09-01	2017-09-01

^{*} 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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Limit - Corrected Amplitude

Test Data

Environmental Conditions

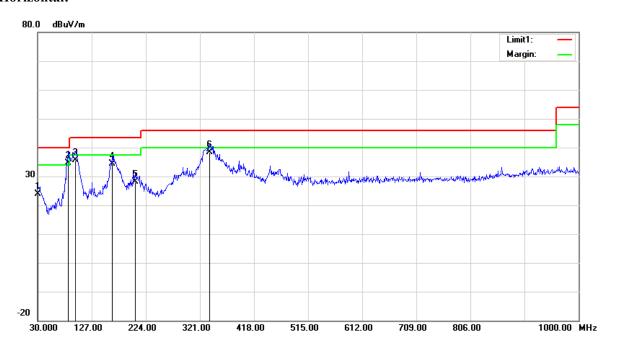
Temperature:	26.5 °C
Relative Humidity:	54 %
ATM Pressure:	100.5 kPa

^{*} The testing was performed by Tony Zeng on 2017-08-29.

Test Mode: Transmitting(GFSK middle channel was the worst)

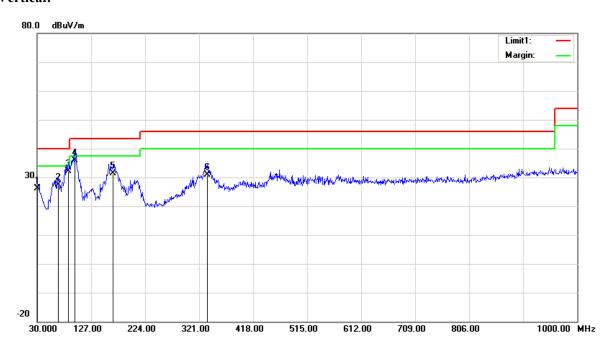
1) 30MHz-1GHz

Horizontal:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.0000	25.92	QP	-1.92	24.00	40.00	16.00
85.2900	47.55	QP	-12.95	34.60	40.00	5.40
97.9000	47.38	QP	-11.78	35.60	43.50	7.90
163.8600	41.30	QP	-7.00	34.30	43.50	9.20
205.5700	36.21	QP	-8.11	28.10	43.50	15.40
338.4600	42.38	QP	-4.08	38.30	46.00	7.70

Vertical:



Frequency (MHz)	Receiver Reading (dBuV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.9700	28.59	QP	-2.39	26.20	40.00	13.80
67.8300	41.32	QP	-14.02	27.30	40.00	12.70
86.2600	44.96	QP	-12.86	32.10	40.00	7.90
97.9000	47.68	QP	-11.78	35.90	43.50	7.60
166.7700	38.35	QP	-7.05	31.30	43.50	12.20
335.5500	35.15	QP	-4.15	31.00	46.00	15.00

2) 1-25GHz:

BDR Mode (GFSK):

_	Reco	eiver	Rx A	ntenna	Cable	Amplifier	Corrected	* • •.	3.5
Frequency	Reading		Polar	Factor	loss	Gain	Amplitude	Limit (dBµV/m)	Margin
(MHz)	(dBµV)	Detector	(H/V)	(dB)	(dB)	(dB)	(dBµV/m)	(ави у/ш)	(dB)
Low Channel: 2402 MHz									
2402	61.96	PK	Н	28.10	3.11	0.00	93.17	N/A	N/A
2402	46.21	AV	Н	28.10	3.11	0.00	77.42	N/A	N/A
2402	59.52	PK	V	28.10	3.11	0.00	90.73	N/A	N/A
2402	46.03	AV	V	28.10	3.11	0.00	77.24	N/A	N/A
2390	25.36	PK	Н	28.08	3.10	0.00	56.54	74.00	17.46
2390	13.47	AV	Н	28.08	3.10	0.00	44.65	54.00	9.35
4804	46.61	PK	Н	32.91	4.30	35.48	48.34	74.00	25.66
4804	33.21	AV	Н	32.91	4.30	35.48	34.94	54.00	19.06
7206	45.59	PK	Н	35.74	5.45	35.97	50.81	74.00	23.19
7206	32.26	AV	Н	35.74	5.45	35.97	37.48	54.00	16.52
2547	46.76	PK	Н	28.47	3.10	35.45	42.88	74.00	31.12
2547	32.48	AV	Н	28.47	3.10	35.45	28.60	54.00	25.40
	_	_		Middle Cha	nnel: 244				
2441	60.71	PK	Н	28.18	3.11	0.00	92.00	N/A	N/A
2441	49.57	AV	Н	28.18	3.11	0.00	80.86	N/A	N/A
2441	59.41	PK	V	28.18	3.11	0.00	90.70	N/A	N/A
2441	47.19	AV	V	28.18	3.11	0.00	78.48	N/A	N/A
4882	46.36	PK	Н	33.06	4.40	35.54	48.28	74.00	25.72
4882	32.25	AV	Н	33.06	4.40	35.54	34.17	54.00	19.83
7323	46.63	PK	Н	36.04	5.53	35.98	52.22	74.00	21.78
7323	32.28	AV	Н	36.04	5.53	35.98	37.87	54.00	16.13
3651	45.57	PK	Н	31.63	3.73	35.14	45.79	74.00	28.21
3651	32.56	AV	Н	31.63	3.73	35.14	32.78	54.00	21.22
2854	46.69	PK	Н	29.57	3.32	35.35	44.23	74.00	29.77
2854	33.58	AV	Н	29.57	3.32	35.35	31.12	54.00	22.88
				High Chan	nel: 2480	MHz			
2480	62.08	PK	Н	28.26	3.10	0.00	93.44	N/A	N/A
2480	51.24	AV	Н	28.26	3.10	0.00	82.60	N/A	N/A
2480	59.84	PK	V	28.26	3.10	0.00	91.20	N/A	N/A
2480	48.87	AV	V	28.26	3.10	0.00	80.23	N/A	N/A
2483.5	25.84	PK	Н	28.27	3.10	0.00	57.21	74.00	16.79
2483.5	13.59	AV	Н	28.27	3.10	0.00	44.96	54.00	9.04
4960	46.15	PK	Н	33.22	4.42	35.60	48.19	74.00	25.81
4960	32.37	AV	Н	33.22	4.42	35.60	34.41	54.00	19.59
7440	45.88	PK	Н	36.34	5.60	35.99	51.83	74.00	22.17
7440	32.26	AV	Н	36.34	5.60	35.99	38.21	54.00	15.79
3268	46.37	PK	Н	30.74	3.54	35.17	45.48	74.00	28.52
3268	32.26	AV	Н	30.74	3.54	35.17	31.37	54.00	22.63

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

_	Reco	eiver	Rx A	ntenna	Cable	Amplifier	Corrected	T	3.6
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
				Low Chan					
2402	58.02	PK	Н	28.10	3.11	0.00	89.23	N/A	N/A
2402	46.06	AV	Н	28.10	3.11	0.00	77.27	N/A	N/A
2402	58.36	PK	V	28.10	3.11	0.00	89.57	N/A	N/A
2402	46.51	AV	V	28.10	3.11	0.00	77.72	N/A	N/A
2390	25.54	PK	Н	28.08	3.10	0.00	56.72	74.00	17.28
2390	13.36	AV	Н	28.08	3.10	0.00	44.54	54.00	9.46
4804	45.37	PK	Н	32.91	4.30	35.48	47.10	74.00	26.90
4804	32.26	AV	Н	32.91	4.30	35.48	33.99	54.00	20.01
7206	46.19	PK	Н	35.74	5.45	35.97	51.41	74.00	22.59
7206	32.28	AV	Н	35.74	5.45	35.97	37.50	54.00	16.50
3412	46.79	PK	Н	31.09	3.58	35.09	46.37	74.00	27.63
3412	33.06	AV	Н	31.09	3.58	35.09	32.64	54.00	21.36
	•		· ·	Middle Cha	nnel: 244	1 MHz			
2441	60.08	PK	Н	28.18	3.11	0.00	91.37	N/A	N/A
2441	48.76	AV	Н	28.18	3.11	0.00	80.05	N/A	N/A
2441	58.98	PK	V	28.18	3.11	0.00	90.27	N/A	N/A
2441	41.29	AV	V	28.18	3.11	0.00	72.58	N/A	N/A
4882	45.94	PK	Н	33.06	4.40	35.54	47.86	74.00	26.14
4882	32.26	AV	Н	33.06	4.40	35.54	34.18	54.00	19.82
7323	46.58	PK	Н	36.04	5.53	35.98	52.17	74.00	21.83
7323	33.27	AV	Н	36.04	5.53	35.98	38.86	54.00	15.14
3261	45.51	PK	Н	30.73	3.54	35.17	44.61	74.00	29.39
3261	32.27	AV	Н	30.73	3.54	35.17	31.37	54.00	22.63
3781	46.64	PK	Н	31.92	3.79	35.22	47.13	74.00	26.87
3781	32.45	AV	Н	31.92	3.79	35.22	32.94	54.00	21.06
	•			High Chan	nel: 2480	MHz		•	
2480	59.36	PK	Н	28.26	3.10	0.00	90.72	N/A	N/A
2480	48.01	AV	Н	28.26	3.10	0.00	79.37	N/A	N/A
2480	58.31	PK	V	28.26	3.10	0.00	89.67	N/A	N/A
2480	45.54	AV	V	28.26	3.10	0.00	76.90	N/A	N/A
2483.5	24.58	PK	Н	28.27	3.10	0.00	55.95	74.00	18.05
2483.5	13.64	AV	Н	28.27	3.10	0.00	45.01	54.00	8.99
4960	46.52	PK	Н	33.22	4.42	35.60	48.56	74.00	25.44
4960	32.28	AV	Н	33.22	4.42	35.60	34.32	54.00	19.68
7440	45.57	PK	Н	36.34	5.60	35.99	51.52	74.00	22.48
7440	33.02	AV	Н	36.34	5.60	35.99	38.97	54.00	15.03
3228	45.28	PK	Н	30.65	3.55	35.19	44.29	74.00	29.71
3228	32.82	AV	Н	30.65	3.55	35.19	31.83	54.00	22.17

	Rec	eiver	Rx A	ntenna	Cable	Amplifier	Corrected			
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	
	Low Channel: 2402 MHz									
2402	59.52	PK	Н	28.10	3.11	0.00	90.73	N/A	N/A	
2402	47.92	AV	Н	28.10	3.11	0.00	79.13	N/A	N/A	
2402	58.89	PK	V	28.10	3.11	0.00	90.10	N/A	N/A	
2402	43.39	AV	V	28.10	3.11	0.00	74.60	N/A	N/A	
2390	24.48	PK	Н	28.08	3.10	0.00	55.66	74.00	18.34	
2390	13.36	AV	Н	28.08	3.10	0.00	44.54	54.00	9.46	
4804	46.39	PK	Н	32.91	4.30	35.48	48.12	74.00	25.88	
4804	33.23	AV	Н	32.91	4.30	35.48	34.96	54.00	19.04	
7206	45.85	PK	Н	35.74	5.45	35.97	51.07	74.00	22.93	
7206	32.14	AV	Н	35.74	5.45	35.97	37.36	54.00	16.64	
2958	45.11	PK	Н	29.95	3.43	35.32	43.17	74.00	30.83	
2958	33.03	AV	Н	29.95	3.43	35.32	31.09	54.00	22.91	
	Middle Channel: 2441 MHz									
2441	59.17	PK	Н	28.18	3.11	0.00	90.46	N/A	N/A	
2441	45.32	AV	Н	28.18	3.11	0.00	76.61	N/A	N/A	
2441	60.47	PK	V	28.18	3.11	0.00	91.76	N/A	N/A	
2441	46.55	AV	V	28.18	3.11	0.00	77.84	N/A	N/A	
4882	45.89	PK	Н	33.06	4.40	35.54	47.81	74.00	26.19	
4882	32.66	AV	Н	33.06	4.40	35.54	34.58	54.00	19.42	
7323	46.62	PK	Н	36.04	5.53	35.98	52.21	74.00	21.79	
7323	33.05	AV	Н	36.04	5.53	35.98	38.64	54.00	15.36	
2659	46.68	PK	Н	28.87	3.17	35.41	43.31	74.00	30.69	
2659	33.09	AV	Н	28.87	3.17	35.41	29.72	54.00	24.28	
3226	45.23	PK	Н	30.64	3.55	35.19	44.23	74.00	29.77	
3226	32.17	AV	Н	30.64	3.55	35.19	31.17	54.00	22.83	
		-		High Chan	nel: 2480	MHz				
2480	59.61	PK	Н	28.26	3.10	0.00	90.97	N/A	N/A	
2480	46.65	AV	Н	28.26	3.10	0.00	78.01	N/A	N/A	
2480	59.31	PK	V	28.26	3.10	0.00	90.67	N/A	N/A	
2480	46.28	AV	V	28.26	3.10	0.00	77.64	N/A	N/A	
2483.5	26.12	PK	Н	28.27	3.10	0.00	57.49	74.00	16.51	
2483.5	13.59	AV	Н	28.27	3.10	0.00	44.96	54.00	9.04	
4960	46.63	PK	Н	33.22	4.42	35.60	48.67	74.00	25.33	
4960	33.25	AV	Н	33.22	4.42	35.60	35.29	54.00	18.71	
7440	46.69	PK	Н	36.34	5.60	35.99	52.64	74.00	21.36	
7440	32.98	AV	Н	36.34	5.60	35.99	38.93	54.00	15.07	
3216	46.31	PK	Н	30.62	3.55	35.19	45.29	74.00	28.71	
3216	32.79	AV	Н	30.62	3.55	35.19	31.77	54.00	22.23	

FCC §15.247(a) (1) - CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hoping 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	ESCI	101121	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-1	Each Time	/

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

Test Procedure

- 1. Set the EUT in transmitting mode, spectrum Bandwidth was set at 30 kHz, maxhold the channel.
- 2. Set the adjacent channel of the EUT maxhold another trace.
- 3. Measure the channel separation.

Test Data

Environmental Conditions

Temperature:	27.8 °C
Relative Humidity:	48 %
ATM Pressure:	100.2 kPa

^{*} The testing was performed by Nami Quan on 2017-08-30.

Test Result: Compliance.

Please refer to following tables and plots

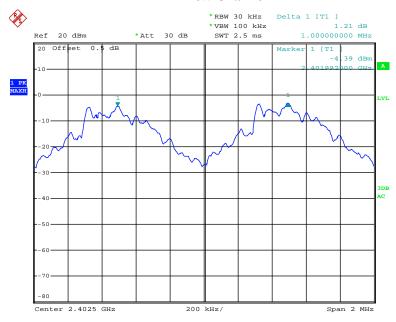
Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
n n n	Low	2402	1.000	0.61
BDR (GFSK)	Middle	2441	1.000	0.59
(OFSK)	High	2480	1.004	0.59
EDD	Low	2402	1.000	0.81
EDR (π/4-DQPSK)	Middle	2441	0.996	0.81
(#4-DQI 5K)	High	2480	1.000	0.81
EDD	Low	2402	1.000	0.81
EDR (8DPSK)	Middle	2441	1.000	0.81
(8DPSK)	High	2480	1.000	0.81

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

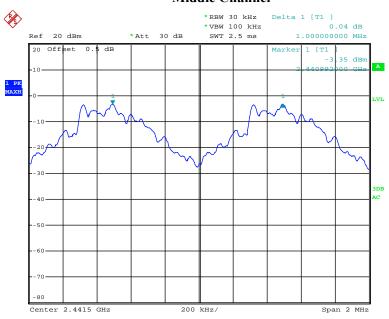
BDR Mode (GFSK):

Low Channel



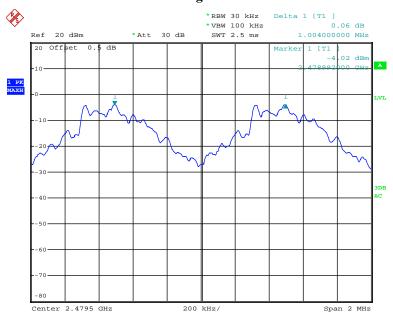
Date: 30.AUG.2017 15:07:01

Middle Channel



Date: 30.AUG.2017 15:07:59

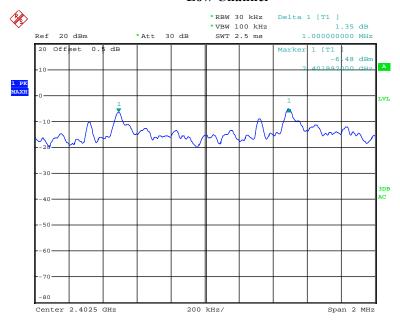
High Channel



Date: 30.AUG.2017 15:09:00

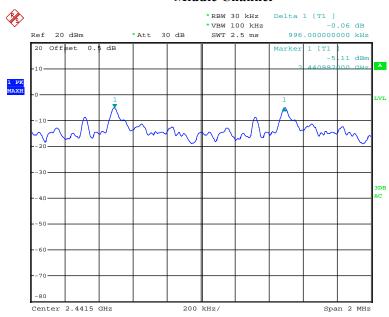
EDR Mode (\pi/4-DQPSK):

Low Channel



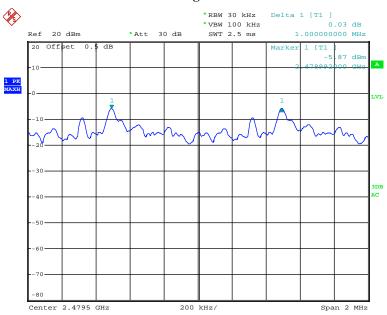
Date: 30.AUG.2017 15:03:17

Middle Channel



Date: 30.AUG.2017 15:04:07

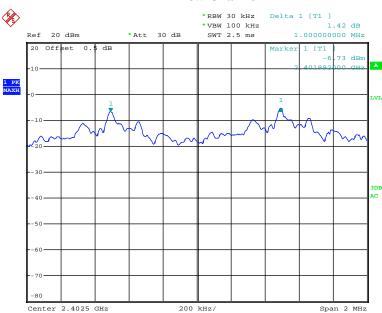
High Channel



Date: 30.AUG.2017 15:05:11

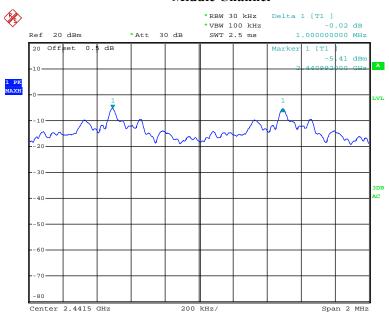
EDR Mode (8-DPSK):

Low Channel



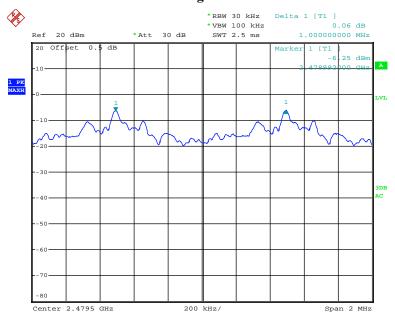
Date: 30.AUG.2017 15:14:27

Middle Channel



Date: 30.AUG.2017 15:15:44

High Channel



Date: 30.AUG.2017 15:16:34

FCC $\S15.247(a)$ (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	ESCI	101121	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-1	Each Time	/

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

Test Data

Environmental Conditions

Temperature:	27.8 °C	
Relative Humidity:	48 %	
ATM Pressure:	100.2 kPa	

^{*} The testing was performed by Nami Quan on 2017-08-30.

Test Result: Compliance.

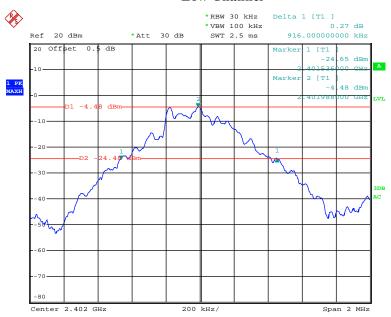
Please refer to following tables and plots

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.92
	Middle	2441	0.88
	High	2480	0.89
	Low	2402	1.22
EDR Mode (π/4-DQPSK)	Middle	2441	1.22
(M4-DQI 3K)	High	2480	1.22
EDR Mode (8-DPSK)	Low	2402	1.21
	Middle	2441	1.21
	High	2480	1.21

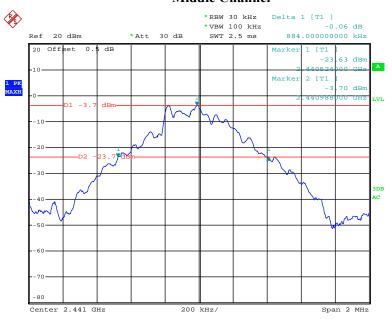
BDR Mode (GFSK):

Low Channel



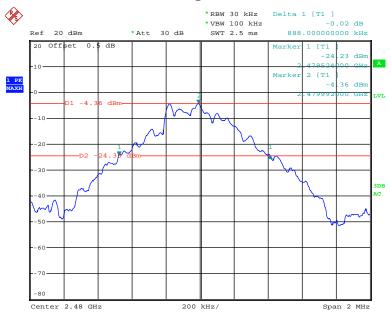
Date: 30.AUG.2017 14:47:04

Middle Channel



Date: 30.AUG.2017 14:49:13

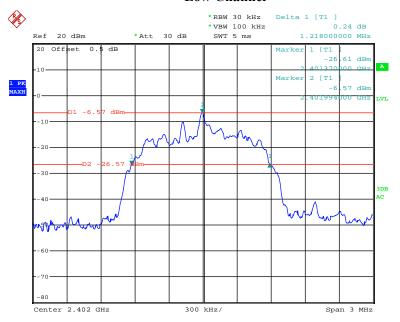
High Channel



Date: 30.AUG.2017 14:50:09

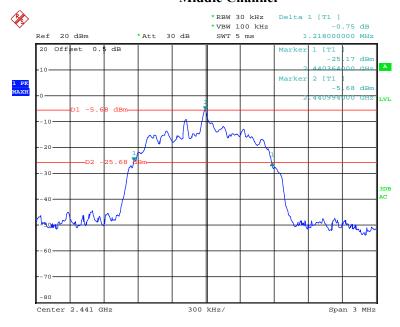
EDR Mode ($\pi/4$ -DQPSK):

Low Channel



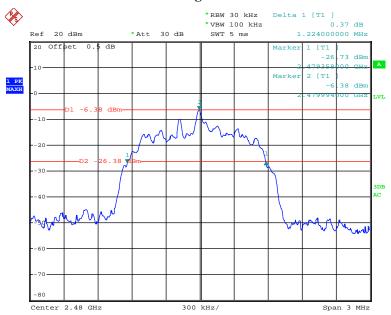
Date: 30.AUG.2017 15:01:25

Middle Channel



Date: 30.AUG.2017 14:54:12

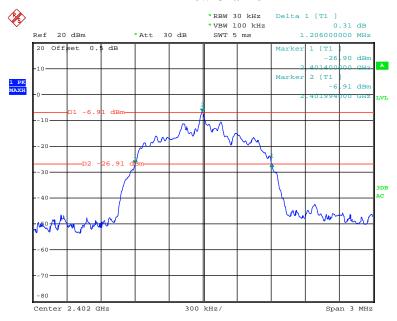
High Channel



Date: 30.AUG.2017 14:55:09

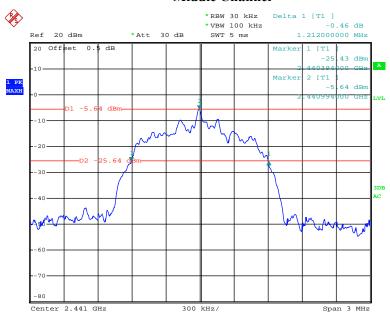
EDR Mode (8-DPSK):

Low Channel



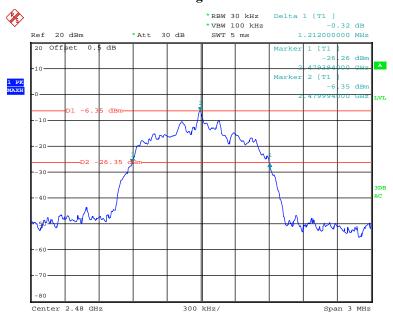
Date: 30.AUG.2017 14:59:35

Middle Channel



Date: 30.AUG.2017 14:58:39

High Channel



Date: 30.AUG.2017 14:57:18

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	ESCI	101121	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-1	Each Time	/

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

Test Data

Environmental Conditions

Temperature:	27.8 °C	
Relative Humidity:	48 %	
ATM Pressure:	100.2 kPa	

^{*} The testing was performed by Nami Quan on 2017-08-30

Test Result: Compliance.

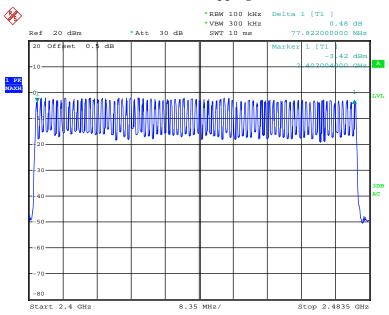
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

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

Number of Hopping Channels

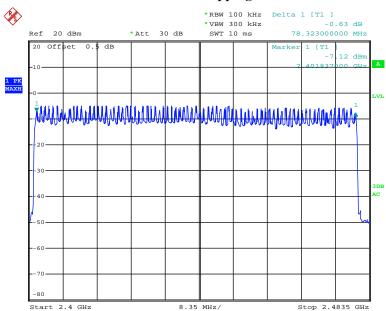


Date: 30.AUG.2017 15:25:49

EDR Mode (\pi/4-DQPSK):

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

Number of Hopping Channels

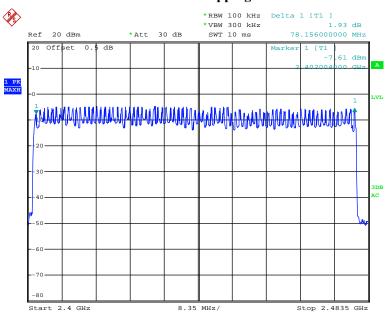


Date: 30.AUG.2017 15:22:36

EDR Mode (8-DPSK):

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

Number of Hopping Channels



Date: 30.AUG.2017 15:19:44

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	ESCI	101121	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-1	Each Time	/

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

Test Data

Environmental Conditions

Temperature:	27.8 °C
Relative Humidity:	48 %
ATM Pressure:	100.2 kPa

^{*} The testing was performed by Nami Quan on 2017-08-30.

Test Result: Compliance.

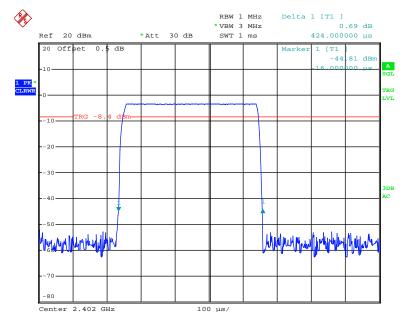
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

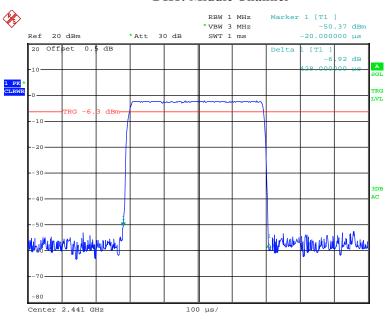
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
	Low	0.424	0.136	0.4	Compliance
DH1	Middle	0.428	0.137	0.4	Compliance
DIII	High	0.426	0.136	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/2/79)				.6 s
	Low	1.692	0.271	0.4	Compliance
DH3	Middle	1.692	0.271	0.4	Compliance
DIIS	High	1.692	0.271	0.4	Compliance
	Note: Dwell tir	me=Pulse time	$(ms) \times (1600)$	/4/79) ×31	.6 s
	Low	2.950	0.315	0.4	Compliance
DH5	Middle	2.948	0.314	0.4	Compliance
DIIS	High	2.950	0.315	0.4	Compliance
	Note: Dwell tir	me=Pulse time	$(ms) \times (1600)$	/6/79) ×31	.6 s

DH1: Low Channel



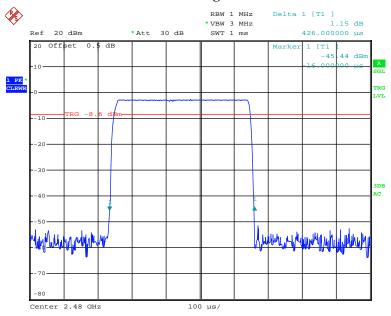
Date: 30.AUG.2017 15:26:40

DH1: Middle Channel



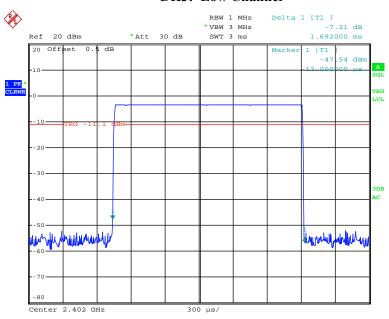
Date: 30.AUG.2017 15:43:30

DH1: High Channel



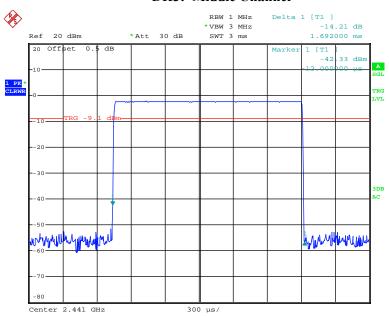
Date: 30.AUG.2017 15:26:53

DH3: Low Channel



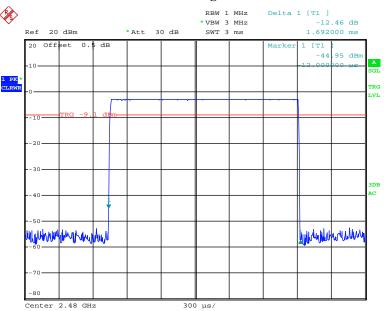
Date: 30.AUG.2017 15:28:00

DH3: Middle Channel



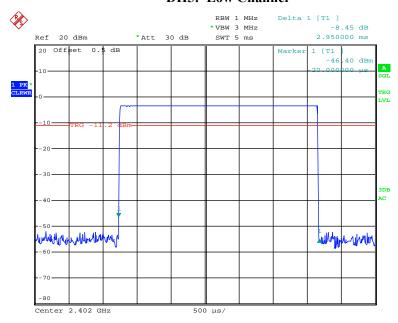
Date: 30.AUG.2017 15:28:06

DH3: High Channel



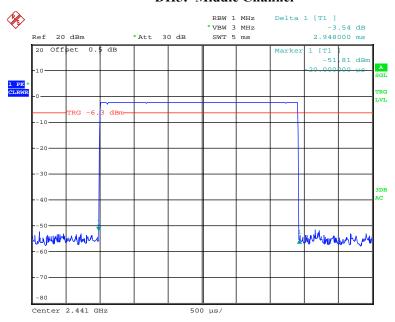
Date: 30.AUG.2017 15:28:13

DH5: Low Channel



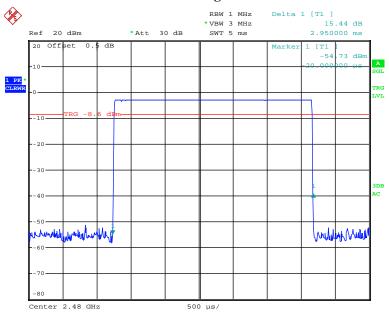
Date: 30.AUG.2017 15:29:34

DH5: Middle Channel



Date: 30.AUG.2017 15:46:05

DH5: High Channel

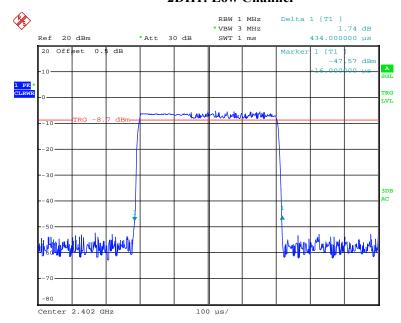


Date: 30.AUG.2017 15:29:46

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

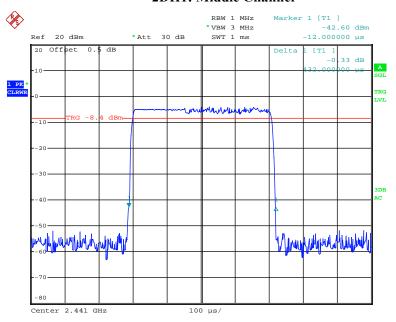
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
	Low	0.434	0.139	0.4	Compliance
2DH1	Middle	0.432	0.138	0.4	Compliance
2DH1	High	0.438	0.140	0.4	Compliance
Note: Dwell time=Pulse time (ms)				/2/79)×3	1.6 s
	Low	1.692	0.271	0.4	Compliance
2DH3	Middle	1.698	0.272	0.4	Compliance
2D113	High	1.698	0.272	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s				
	Low	2.932	0.313	0.4	Compliance
2DH5	Middle	2.948	0.314	0.4	Compliance
20113	High	2.932	0.313	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

2DH1: Low Channel



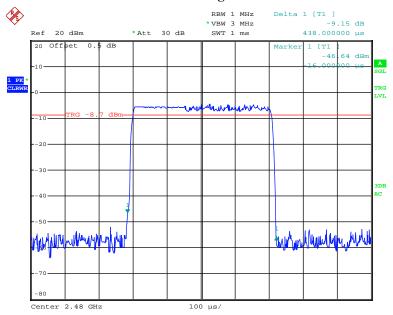
Date: 30.AUG.2017 15:52:16

2DH1: Middle Channel



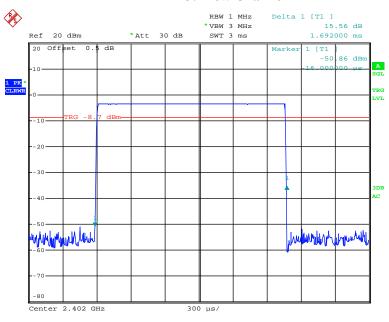
Date: 30.AUG.2017 15:51:16

2DH1: High Channel



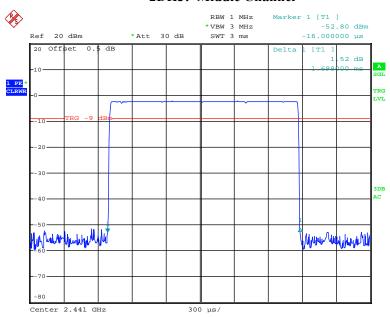
Date: 30.AUG.2017 15:52:43

2DH3: Low Channel



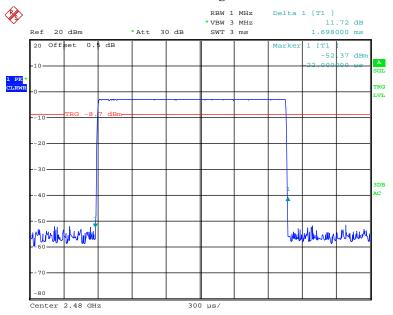
Date: 30.AUG.2017 15:55:26

2DH3: Middle Channel



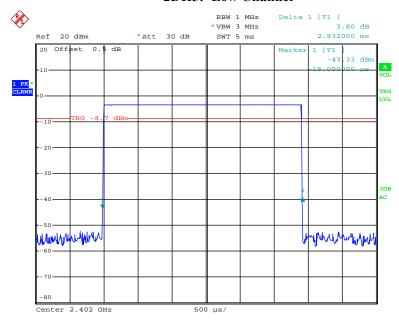
Date: 30.AUG.2017 16:14:02

2DH3: High Channel



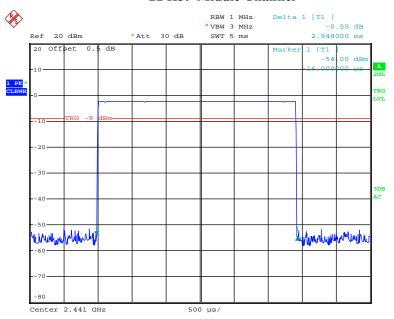
Date: 30.AUG.2017 15:54:27

2DH5: Low Channel



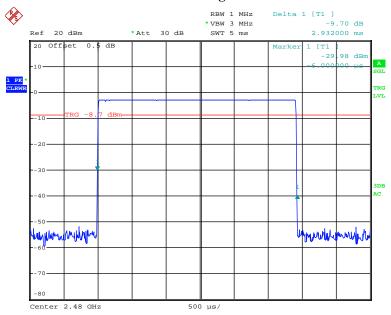
Date: 30.AUG.2017 15:57:14

2DH5: Middle Channel



Date: 30.AUG.2017 16:16:08

2DH5: High Channel



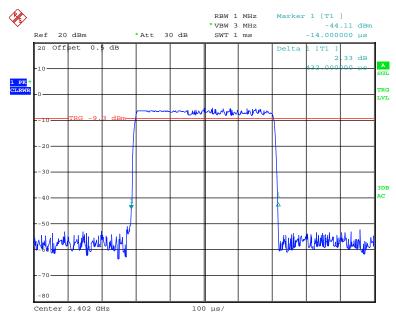
Date: 30.AUG.2017 15:58:07

Report No.: RDG170821006-00B

EDR Mode (8-DPSK):

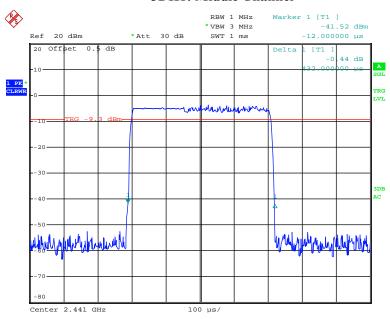
Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
	Low	0.432	0.138	0.4	Compliance
3DH1	Middle	0.432	0.138	0.4	Compliance
зипі	High	0.434	0.139	0.4	Compliance
	Note: Dwell time=Pulse time (ms) × (1600/2/				6 s
	Low	1.706	0.273	0.4	Compliance
<i>3DH3</i>	Middle	1.706	0.273	0.4	Compliance
SDIIS	High	1.706	0.273	0.4	Compliance
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.				6 s
	Low	2.956	0.315	0.4	Compliance
3DH5	Middle	2.946	0.314	0.4	Compliance
SDIIS	High	2.946	0.314	0.4	Compliance
	Note: Dwell ti	me=Pulse time	$(ms) \times (1600)$	/6/79) ×31.	6 s

3DH1: Low Channel



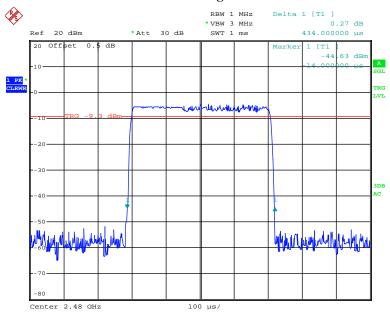
Date: 30.AUG.2017 16:02:29

3DH1: Middle Channel



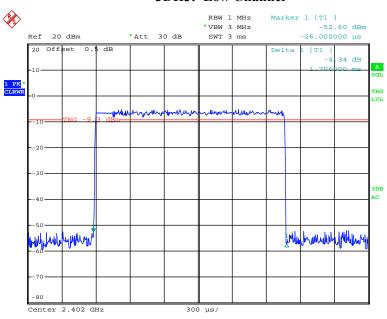
Date: 30.AUG.2017 16:03:08

3DH1: High Channel



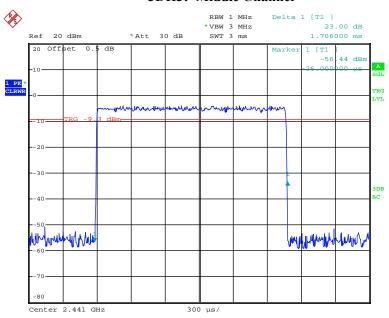
Date: 30.AUG.2017 16:03:39

3DH3: Low Channel



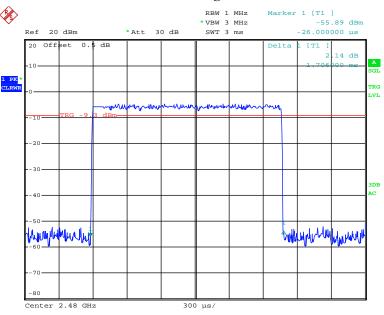
Date: 30.AUG.2017 16:07:56

3DH3: Middle Channel



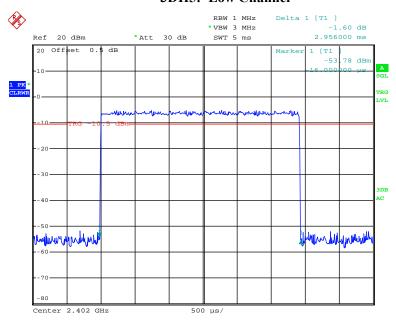
Date: 30.AUG.2017 16:06:01

3DH3: High Channel



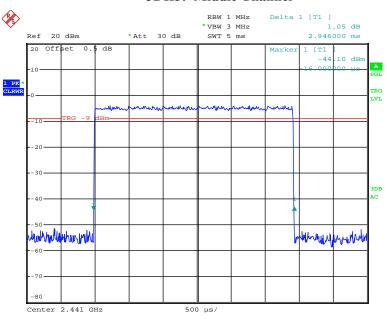
Date: 30.AUG.2017 16:04:55

3DH5: Low Channel



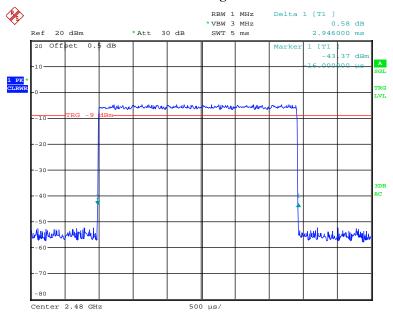
Date: 30.AUG.2017 16:09:55

3DH5: Middle Channel



Date: 30.AUG.2017 16:11:02

3DH5: High Channel



Date: 30.AUG.2017 16:11:28

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	ESCI	101121	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-1	Each Time	/

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

Test Data

Environmental Conditions

Temperature:	27.8 °C
Relative Humidity:	48 %
ATM Pressure:	100.2 kPa

^{*} The testing was performed by Nami Quan on 2017-08-30.

Test Result: Compliance.

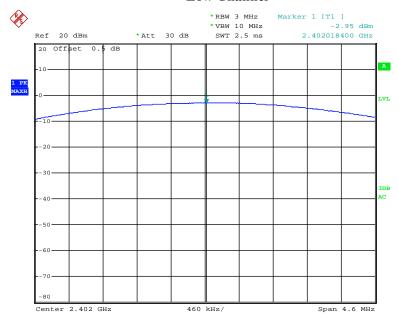
Test Mode: Transmitting

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
22214	2402	-2.95	30
BDR Mode (GFSK)	2441	-2.16	30
(GrSK)	2480	-2.83	30
	2402	-4.69	30
EDR Mode (π/4-DQPSK)	2441	-3.90	30
(1//4-DQF3K)	2480	-4.54	30
	2402	-4.39	30
EDR Mode (8-DPSK)	2441	-3.41	30
	2480	-4.08	30

Note: The data above was tested in conducted mode.

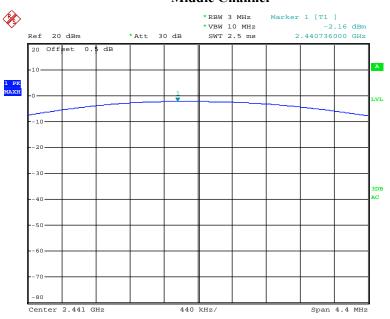
BDR Mode (GFSK):

Low Channel



Date: 30.AUG.2017 14:47:23

Middle Channel



Date: 30.AUG.2017 14:49:34

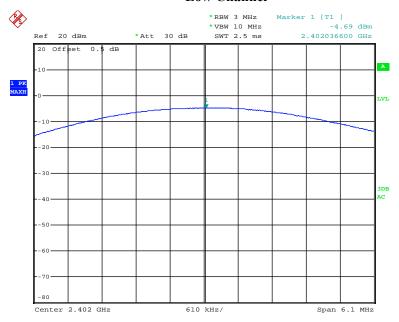
High Channel



Date: 30.AUG.2017 14:50:29

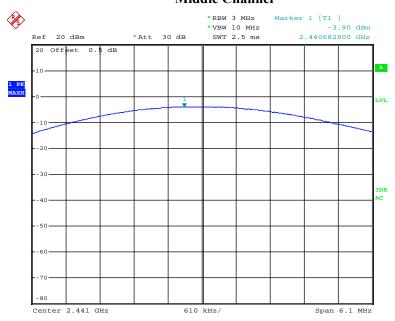
EDR Mode ($\pi/4$ -DQPSK):

Low Channel



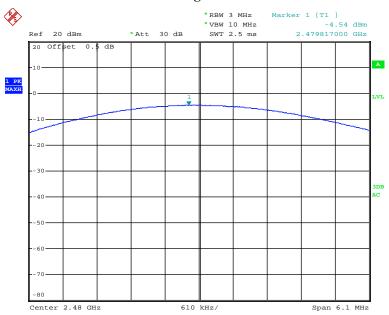
Date: 30.AUG.2017 15:01:46

Middle Channel



Date: 30.AUG.2017 14:54:32

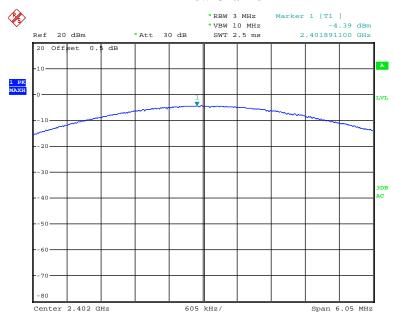
High Channel



Date: 30.AUG.2017 14:55:29

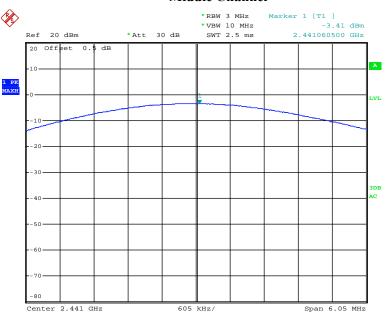
EDR Mode (8-DPSK):

Low Channel



Date: 30.AUG.2017 14:59:55

Middle Channel



Date: 30.AUG.2017 14:59:00

High Channel



Date: 30.AUG.2017 14:57:39

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	ESCI	101121	2017-03-02	2018-03-02
Unknown	RF Cable	Unknown	C-1	Each Time	/

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

Test Data

Environmental Conditions

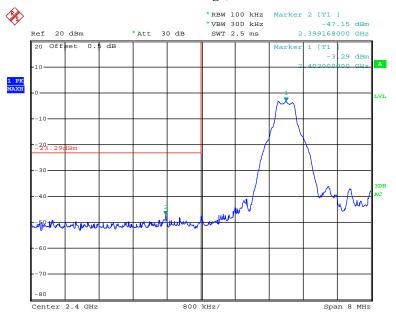
Temperature:	27.8 °C
Relative Humidity:	48 %
ATM Pressure:	100.2 kPa

^{*} The testing was performed by Nami Quan on 2017-08-30.

Test Result: Compliance

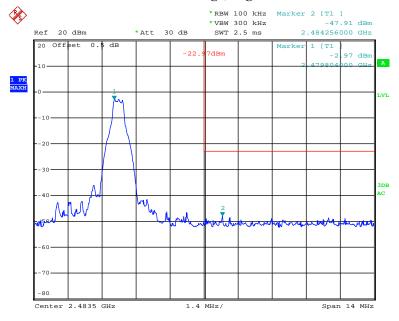
BDR Mode (GFSK):

Band Edge, Left Side



Date: 30.AUG.2017 14:47:38

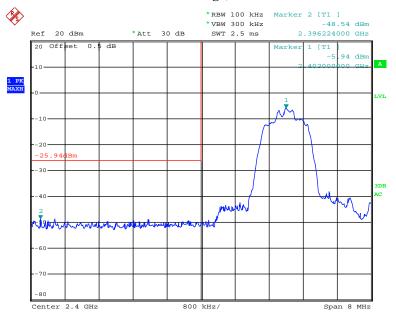
Band Edge, Right Side



Date: 30.AUG.2017 14:50:46

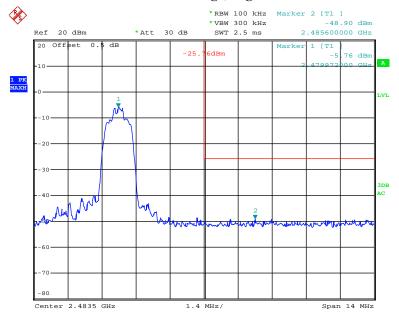
EDR Mode (\pi/4-DQPSK):

Band Edge, Left Side



Date: 30.AUG.2017 15:02:01

Band Edge, Right Side



Date: 30.AUG.2017 14:55:45

EDR Mode (8-DPSK):

Date: 30.AUG.2017 15:00:09

Center 2.4 GHz

-80

Date: 30.AUG.2017 14:57:53

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

Report No.: RDG170821006-00B

Span 8 MHz