



FCC PART 15.247 TEST REPORT

For

Interglobe Connection Corp

8228 NW 30th Terrace, Doral, Florida, United States, 33122

FCC ID: 2AC7IEKOW240

Report Type: Product Name:

Original Report Rugged Feature Phone

Report Number: RDG180903002-00B

Report Date: 2018-09-20

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name: Rugged Feature Phone		Rugged Feature Phone				
EUT Model:		Extreme W240				
R	ated Input Voltage:	DC3.7V from Li-ion Rechargeable Battery or DC5V from adapter				
	Model Name:	LM-NU050100SM				
Adapter Information	Input:	AC 100-240V, 50/60Hz 0.2A				
Output:		DC5.0V, 1000mA				
E	xternal Dimension:	Length (131 mm)*Width (56 mm)*High (19.2 mm)				
Serial Number:		180903002				
F	EUT Received Date:	2018.09.06				

Objective

This report is prepared on behalf of *Interglobe Connection Corp* 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 22H, 24E PCE submissions with FCC ID: 2AC7IEKOW240. FCC Part 15B JBP submissions with FCC ID: 2AC7IEKOW240.

Test Methodology

All measurements detailed in this test report were performed in accordance with ANSI C63.10-2013 "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices".

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

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB,200M~1GHz: 5.92 dB,1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.5 dB
Temperature	±1
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218,the FCC Designation No. : CN1220.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062D.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

EUT Exercise Software

The Engineering Mode configured the maximum power level as default setting.

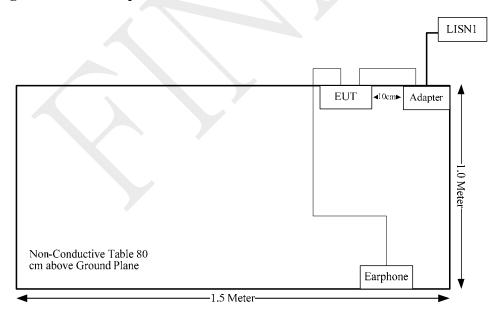
Equipment Modifications

No modification was made to the EUT.

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	То
Earphone Cable	No	No	1	Earphone	EUT
USB Cable	No	No	0.8	Adapter	EUT

Block Diagram of Test Setup



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

FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 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 7.0dBm (5.0 mW). [(max. power of channel, mW)/(min. test separation distance, mm)][$\sqrt{f(GHz)}$] =5.0/5*($\sqrt{2.480}$) = 1.6< 3.0

So the stand-alone SAR evaluation is not necessary.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has one internal antenna arrangement for BT, and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

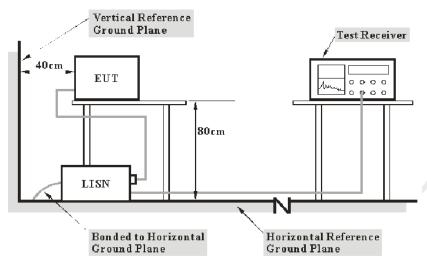
Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a)

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to the main LISN with a 120 V/60 Hz AC power source.

EMI Test Receiver Setup

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

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

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

Test Procedure

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

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

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

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

 V_C : corrected voltage amplitude V_R : reading voltage amplitude A_c : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

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

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	ncturer Description Model Serial Number		Calibration Date	Calibration Due Date	
R&S	EMI Test Receiver	ESCS 30	830245/006	2017-12-11	2018-12-11
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2018-09-05	2019-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2017-12-08	2018-12-08

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

Test Data

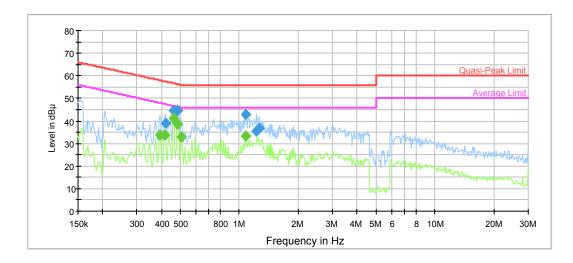
Environmental Conditions

Temperature:	27.3 °C
Relative Humidity:	53 %
ATM Pressure:	100.4 kPa

The testing was performed by Lily Xie on 2018-09-10.

Test Mode: Transmitting

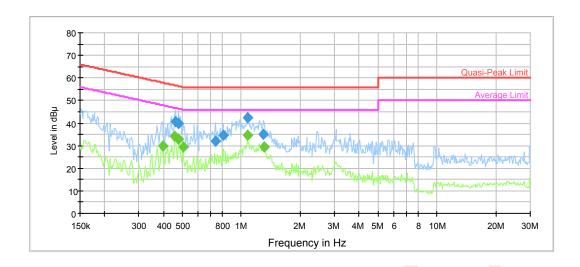
AC120V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.419276	38.8	9.000	L1	9.9	18.7	57.5	Compliance
0.461346	44.6	9.000	L1	9.9	12.1	56.7	Compliance
0.483938	44.5	9.000	L1	9.9	11.8	56.3	Compliance
1.073601	42.7	9.000	L1	9.8	13.3	56.0	Compliance
1.229340	35.3	9.000	L1	9.8	20.7	56.0	Compliance
1.259081	36.7	9.000	L1	9.8	19.3	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.393383	33.9	9.000	L1	10.0	14.1	48.0	Compliance
0.415949	33.7	9.000	L1	9.9	13.8	47.5	Compliance
0.461346	41.0	9.000	L1	9.9	5.7	46.7	Compliance
0.483938	38.4	9.000	L1	9.9	7.9	46.3	Compliance
0.507637	33.1	9.000	L1	9.9	12.9	46.0	Compliance
1.073601	33.2	9.000	L1	9.8	12.8	46.0	Compliance

AC120V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.461346	40.8	9.000	N	9.9	15.9	56.7	Compliance
0.480097	40.0	9.000	N	9.9	16.3	56.3	Compliance
0.738241	32.1	9.000	N	9.8	23.9	56.0	Compliance
0.805868	34.4	9.000	N	9.8	21.6	56.0	Compliance
1.073601	42.6	9.000	N	9.8	13.4	56.0	Compliance
1.299858	35.0	9.000	N	9.8	21.0	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.396530	30.0	9.000	N	10.0	17.9	47.9	Compliance
0.457684	34.1	9.000	N	9.9	12.6	46.7	Compliance
0.480097	32.8	9.000	N	9.9	13.5	46.3	Compliance
0.503608	29.3	9.000	N	9.9	16.7	46.0	Compliance
1.073601	34.4	9.000	N	9.8	11.6	46.0	Compliance
1.310256	29.2	9.000	N	9.8	16.8	46.0	Compliance

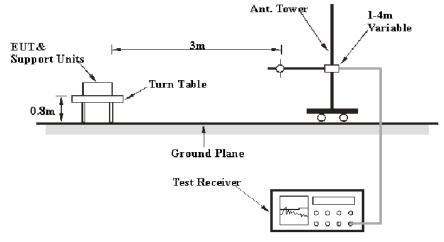
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

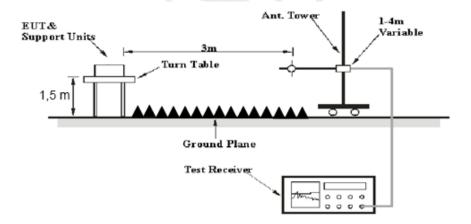
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission below 1GHz tests were performed in the 10 meters chamber test site, above 1GHz tests were performed in the 3 meters chamber test site B, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

According to FCC public notice: DA-00-705, during the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
Above I GHZ	1MHz	10 Hz	/	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100035	2018-08-03	2019-08-03
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-3	2017-07-21	2019-07-21
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-02	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-2200-01	2018-09-05	2019-09-05
HP	Amplifier	8447F	2443A01912	2018-09-05	2019-09-05
Agilent	Spectrum Analyzer	E4440A	SG43360054	2018-01-04	2019-01-04
ETS-Lindgren	Horn Antenna	3115	000 527 35	2016-01-05	2019-01-04
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2016-11-18	2019-11-18
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-2.4J2.4J-50	C-0700-02	2018-06-27	2019-06-27
MITEQ	Amplifier	AFS42-00101800-25- S-42	2001271	2018-09-05	2019-09-05
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2018-06-27	2019-06-27
E-Microwave	Band-stop Filters	OBSF-2400-2483.5-S	OE01601525	2018-06-16	2019-06-16
Micro-tronics	High Pass Filter	HPM50111	S/N-G217	2018-06-16	2019-06-16

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

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

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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

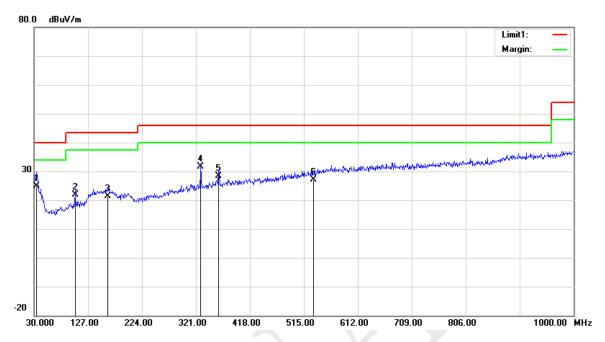
Temperature:	27.1 ~ 27.4 °C
Relative Humidity:	31~40 %
ATM Pressure:	100.3 ∼ 100.4 kPa

^{*} The testing was performed by Blake Yang & Alex on 2018-09-10 & 2018-09-12.

Test Mode: Transmitting

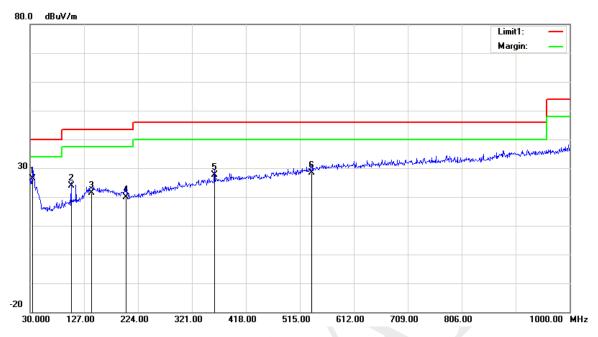
1) 30MHz-1GHz(GFSK High channel was the worst)

Horizontal:



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
34.8500	28.67	QP	-3.77	24.90	40.00	15.10
103.7200	32.48	QP	-10.48	22.00	43.50	21.50
162.8900	27.26	QP	-5.86	21.40	43.50	22.10
329.7300	34.23	QP	-2.63	31.60	46.00	14.40
361.7400	29.87	QP	-1.57	28.30	46.00	17.70
532.4600	24.01	QP	3.09	27.10	46.00	18.90

Vertical:



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
34.8500	30.17	QP	-3.77	26.40	40.00	13.60
103.7200	34.48	QP	-10.48	24.00	43.50	19.50
140.5800	27.20	QP	-5.80	21.40	43.50	22.10
202.6600	26.41	QP	-6.41	20.00	43.50	23.50
361.7400	29.17	QP	-1.57	27.60	46.00	18.40
536.3400	25.01	QP	3.29	28.30	46.00	17.70

2) 1GHz-25GHz:

BDR Mode (GFSK):

BDR Mode		eiver	Rx A	ntenna	Cable	Amplifier	Corrected			
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
	Low Channel: 2402 MHz									
2402.00	67.08	PK	Н	28.10	1.80	0.00	96.98	N/A	N/A	
2402.00	57.19	AV	Н	28.10	1.80	0.00	87.09	N/A	N/A	
2402.00	65.27	PK	V	28.10	1.80	0.00	95.17	N/A	N/A	
2402.00	55.61	AV	V	28.10	1.80	0.00	85.51	N/A	N/A	
2390.00	29.80	PK	Н	28.08	1.80	0.00	59.68	74.00	14.32	
2390.00	13.34	AV	Н	28.08	1.80	0.00	43.22	54.00	10.78	
4804.00	69.28	PK	Н	32.91	3.17	37.20	68.16	74.00	5.84	
4804.00	54.53	AV	Н	32.91	3.17	37.20	53.41	54.00	0.59	
7206.00	54.59	PK	Н	35.74	4.82	37.23	57.92	74.00	16.08	
7206.00	39.87	AV	Н	35.74	4.82	37.23	43.20	54.00	10.80	
3603.00	63.83	PK	Н	31.53	2.40	37.12	60.64	74.00	13.36	
3603.00	49.48	AV	Н	31.53	2.40	37.12	46.29	54.00	7.71	
	_	_	N	Middle Cha	nnel: 244	1 MHz				
2441.00	66.87	PK	Н	28.18	1.82	0.00	96.87	N/A	N/A	
2441.00	56.72	AV	Н	28.18	1.82	0.00	86.72	N/A	N/A	
2441.00	64.15	PK	V	28.18	1.82	0.00	94.15	N/A	N/A	
2441.00	54.34	AV	V	28.18	1.82	0.00	84.34	N/A	N/A	
4882.00	67.55	PK	Н	33.06	3.27	37.21	66.67	74.00	7.33	
4882.00	52.75	AV	Н	33.06	3.27	37.21	51.87	54.00	2.13	
7323.00	54.02	PK	Н	36.04	4.62	37.38	57.30	74.00	16.70	
7323.00	39.71	AV	Н	36.04	4.62	37.38	42.99	54.00	11.01	
3661.76	62.26	PK	Н	31.66	2.51	37.06	59.37	74.00	14.63	
3661.76	47.79	AV	Н	31.66	2.51	37.06	44.90	54.00	9.10	
	_			High Chan	nel: 2480	MHz	_			
2480.00	66.38	PK	Н	28.26	1.84	0.00	96.48	N/A	N/A	
2480.00	56.64	AV	Н	28.26	1.84	0.00	86.74	N/A	N/A	
2480.00	64.82	PK	V	28.26	1.84	0.00	94.92	N/A	N/A	
2480.00	54.76	AV	V	28.26	1.84	0.00	84.86	N/A	N/A	
2483.50	36.87	PK	Н	28.27	1.84	0.00	66.98	74.00	7.02	
2483.50	13.99	AV	Н	28.27	1.84	0.00	44.10	54.00	9.90	
4960.00	64.38	PK	Н	33.22	3.23	37.25	63.58	74.00	10.42	
4960.00	49.34	AV	Н	33.22	3.23	37.25	48.54	54.00	5.46	
7440.00	53.06	PK	Н	36.34	4.41	37.52	56.29	74.00	17.71	
7440.00	38.81	AV	Н	36.34	4.41	37.52	42.04	54.00	11.96	
3720.00	59.74	PK	Н	31.78	2.56	37.02	57.06	74.00	16.94	
3720.00	44.86	AV	Н	31.78	2.56	37.02	42.18	54.00	11.82	

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

	Reco	eiver	Rx A	ntenna	Cable	Amplifier	Corrected	T * */	M
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin (dB)
				Low Chan	nel: 2402	MHz			
2402.00	65.71	PK	Н	28.10	1.80	0.00	95.61	N/A	N/A
2402.00	53.54	AV	Н	28.10	1.80	0.00	83.44	N/A	N/A
2402.00	62.83	PK	V	28.10	1.80	0.00	92.73	N/A	N/A
2402.00	50.72	AV	V	28.10	1.80	0.00	80.62	N/A	N/A
2390.00	30.22	PK	Н	28.08	1.80	0.00	60.10	74.00	13.90
2390.00	13.41	AV	Н	28.08	1.80	0.00	43.29	54.00	10.71
4804.00	65.58	PK	Н	32.91	3.17	37.20	64.46	74.00	9.54
4804.00	49.59	AV	Н	32.91	3.17	37.20	48.47	54.00	5.53
7206.00	51.62	PK	Н	35.74	4.82	37.23	54.95	74.00	19.05
7206.00	37.48	AV	Н	35.74	4.82	37.23	40.81	54.00	13.19
3602.88	62.15	PK	Н	31.53	2.40	37.12	58.96	74.00	15.04
3602.88	48.36	AV	Н	31.53	2.40	37.12	45.17	54.00	8.83
			N	Middle Char	nnel: 244	1 MHz		1	
2441.00	65.37	PK	Н	28.18	1.82	0.00	95.37	N/A	N/A
2441.00	53.28	AV	Н	28.18	1.82	0.00	83.28	N/A	N/A
2441.00	62.44	PK	V	28.18	1.82	0.00	92.44	N/A	N/A
2441.00	50.36	AV	V	28.18	1.82	0.00	80.36	N/A	N/A
4882.00	65.25	PK	Н	33.06	3.27	37.21	64.37	74.00	9.63
4882.00	49.04	AV	Н	33.06	3.27	37.21	48.16	54.00	5.84
7323.00	51.87	PK	Н	36.04	4.62	37.38	55.15	74.00	18.85
7323.00	37.62	AV	Н	36.04	4.62	37.38	40.90	54.00	13.10
3661.60	59.31	PK	Н	31.66	2.51	37.06	56.42	74.00	17.58
3661.60	45.28	AV	Н	31.66	2.51	37.06	42.39	54.00	11.61
				High Chan	nel: 2480	MHz			
2480.00	65.16	PK	Н	28.26	1.84	0.00	95.26	N/A	N/A
2480.00	53.58	AV	Н	28.26	1.84	0.00	83.68	N/A	N/A
2480.00	62.43	PK	V	28.26	1.84	0.00	92.53	N/A	N/A
2480.00	50.73	AV	V	28.26	1.84	0.00	80.83	N/A	N/A
2483.50	35.94	PK	Н	28.27	1.84	0.00	66.05	74.00	7.95
2483.50	13.98	AV	Н	28.27	1.84	0.00	44.09	54.00	9.91
4960.00	61.65	PK	Н	33.22	3.23	37.25	60.85	74.00	13.15
4960.00	45.73	AV	Н	33.22	3.23	37.25	44.93	54.00	9.07
7440.00	50.64	PK	Н	36.34	4.41	37.52	53.87	74.00	20.13
7440.00	36.91	AV	Н	36.34	4.41	37.52	40.14	54.00	13.86
3720.00	57.66	PK	Н	31.78	2.56	37.02	54.98	74.00	19.02
3720.00	42.84	AV	Н	31.78	2.56	37.02	40.16	54.00	13.84

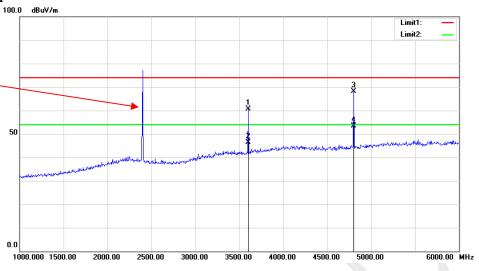
Report No.: RDG180903002-00B

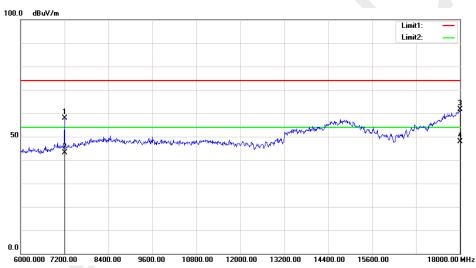
EDR Mode (8-DPSK):

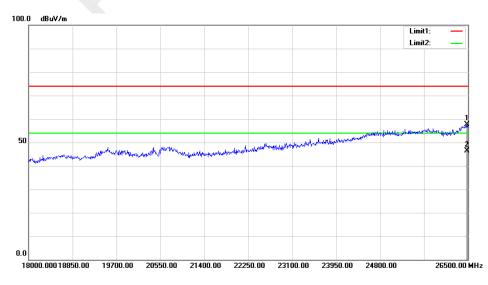
	Rece	eiver	Rx A	ntenna	Cable	Amplifier	Corrected	T,	
Frequency (MHz)	Reading (dBµV)	Detector	Polar (H/V)	Factor (dB/m)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Low Channel: 2402 MHz								
2402.00	65.48	PK	Н	28.10	1.80	0.00	95.38	N/A	N/A
2402.00	53.57	AV	Н	28.10	1.80	0.00	83.47	N/A	N/A
2402.00	62.82	PK	V	28.10	1.80	0.00	92.72	N/A	N/A
2402.00	50.77	AV	V	28.10	1.80	0.00	80.67	N/A	N/A
2390.00	27.90	PK	Н	28.08	1.80	0.00	57.78	74.00	16.22
2390.00	13.30	AV	Н	28.08	1.80	0.00	43.18	54.00	10.82
4804.00	66.31	PK	Н	32.91	3.17	37.20	65.19	74.00	8.81
4804.00	50.18	AV	Н	32.91	3.17	37.20	49.06	54.00	4.94
7206.00	52.04	PK	Н	35.74	4.82	37.23	55.37	74.00	18.63
7206.00	38.25	AV	Н	35.74	4.82	37.23	41.58	54.00	12.42
3602.88	61.53	PK	Н	31.53	2.40	37.12	58.34	74.00	15.66
3602.88	47.31	AV	Н	31.53	2.40	37.12	44.12	54.00	9.88
			N	Middle Cha	nnel: 244	1 MHz			
2441.00	65.22	PK	Н	28.18	1.82	0.00	95.22	N/A	N/A
2441.00	53.17	AV	Н	28.18	1.82	0.00	83.17	N/A	N/A
2441.00	62.54	PK	V	28.18	1.82	0.00	92.54	N/A	N/A
2441.00	50.45	AV	V	28.18	1.82	0.00	80.45	N/A	N/A
4882.00	65.64	PK	Н	33.06	3.27	37.21	64.76	74.00	9.24
4882.00	48.73	AV	Н	33.06	3.27	37.21	47.85	54.00	6.15
7323.00	51.36	PK	Н	36.04	4.62	37.38	54.64	74.00	19.36
7323.00	37.57	AV	Н	36.04	4.62	37.38	40.85	54.00	13.15
3661.40	59.46	PK	Н	31.66	2.51	37.06	56.57	74.00	17.43
3661.40	44.75	AV	Н	31.66	2.51	37.06	41.86	54.00	12.14
				High Chan	nel: 2480	MHz			
2480.00	65.32	PK	Н	28.26	1.84	0.00	95.42	N/A	N/A
2480.00	53.24	AV	Н	28.26	1.84	0.00	83.34	N/A	N/A
2480.00	62.47	PK	V	28.26	1.84	0.00	92.57	N/A	N/A
2480.00	50.17	AV	V	28.26	1.84	0.00	80.27	N/A	N/A
2483.50	35.71	PK	Н	28.27	1.84	0.00	65.82	74.00	8.18
2483.50	13.96	AV	Н	28.27	1.84	0.00	44.07	54.00	9.93
4960.00	62.93	PK	Н	33.22	3.23	37.25	62.13	74.00	11.87
4960.00	46.41	AV	Н	33.22	3.23	37.25	45.61	54.00	8.39
7440.00	50.96	PK	Н	36.34	4.41	37.52	54.19	74.00	19.81
7440.00	37.13	AV	Н	36.34	4.41	37.52	40.36	54.00	13.64
3720.00	56.73	PK	Н	31.78	2.56	37.02	54.05	74.00	19.95
3720.00	41.69	AV	Н	31.78	2.56	37.02	39.01	54.00	14.99

Worst plots (GFSK Low channel) Horizontal

Fundamental Test with Band Rejection Filter







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	ESPI	100120	2017-12-11	2018-12-11
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.3 kPa

^{*} The testing was performed by Elena Lei on 2018-09-11.

Test Result: Compliance.

Please refer to following tables and plots

Report No.: RDG180903002-00B

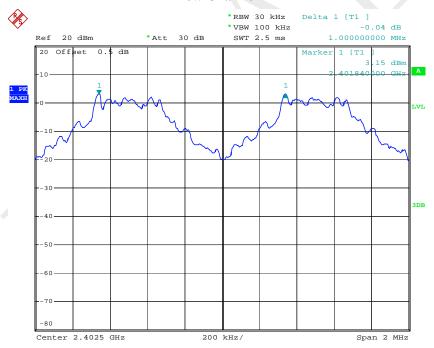
Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)
DDD	Low	2402	1.000	0.62
BDR (GFSK)	Middle	2441	1.000	0.63
(OPSK)	High	2480	1.004	0.63
EDD	Low	2402	1.004	0.84
EDR (π/4-DQPSK)	Middle	2441	1.000	0.84
(M4-DQF3K)	High	2480	0.996	0.84
EDR (8-DPSK)	Low	2402	0.996	0.84
	Middle	2441	1.004	0.84
(0-D1 SK)	High	2480	1.000	0.84

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

BDR Mode (GFSK):

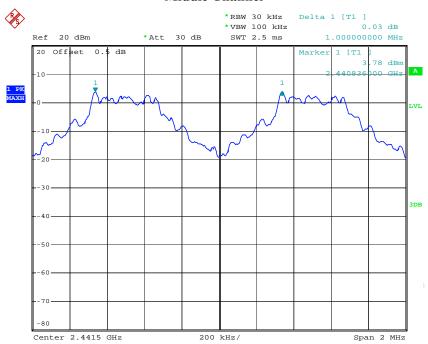
Low Channel



Date: 11.SEP.2018 08:54:45

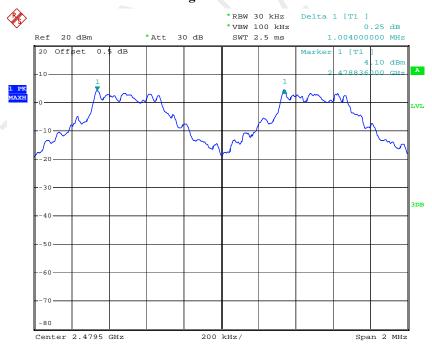
Report No.: RDG180903002-00B

Middle Channel



Date: 11.SEP.2018 08:55:32

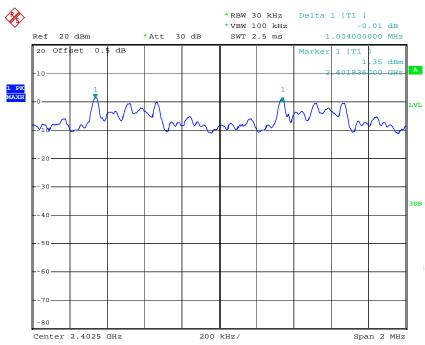
High Channel



Date: 11.SEP.2018 08:56:14

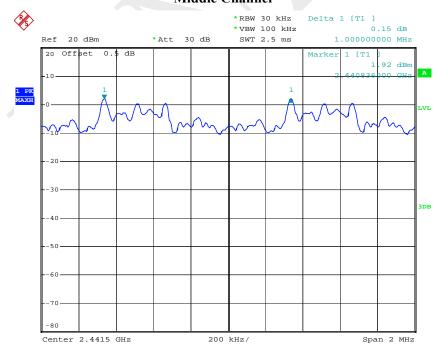
EDR Mode ($\pi/4$ -DQPSK):





Date: 11.SEP.2018 08:57:17

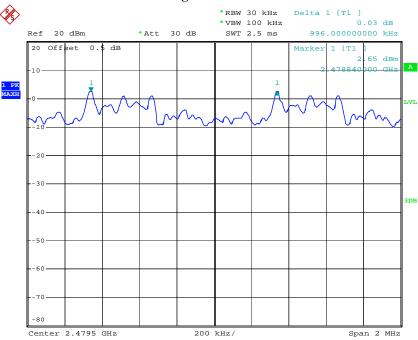
Middle Channel



Date: 11.SEP.2018 08:58:05

Report No.: RDG180903002-00B

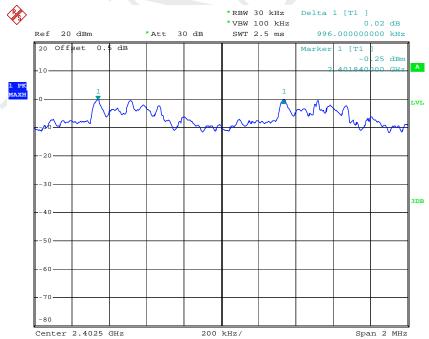
High Channel



Date: 11.SEP.2018 08:59:08

EDR Mode (8-DPSK):

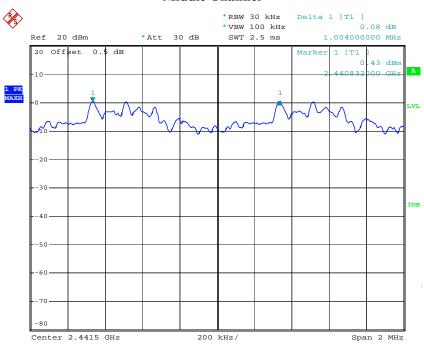
Low Channel



Date: 11.SEP.2018 09:00:00

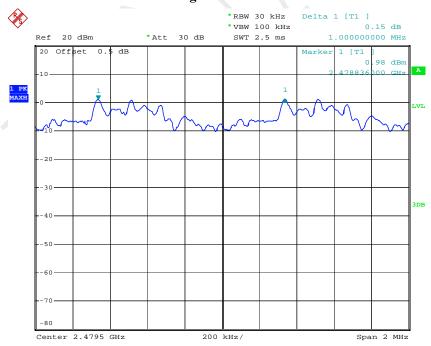
Report No.: RDG180903002-00B

Middle Channel



Date: 11.SEP.2018 09:00:44

High Channel



Date: 11.SEP.2018 09:01:27

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.

Report No.: RDG180903002-00B

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Data

Environmental Conditions

Temperature:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.3 kPa

^{*} The testing was performed by Elena Lei on 2018-09-11.

Test Result: Compliance.

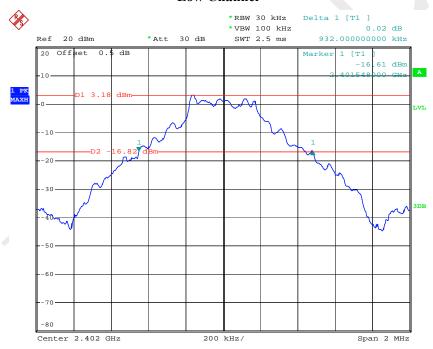
Please refer to following tables and plots

Test Mode: Transmitting

Mode	Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
BDR Mode (GFSK)	Low	2402	0.93
	Middle	2441	0.94
	High	2480	0.94
EDDAG	Low	2402	1.26
EDR Mode (π/4-DQPSK)	Middle	2441	1.26
(1/4-DQI 5K)	High	2480	1.26
	Low	2402	1.26
EDR Mode (8-DPSK)	Middle	2441	1.26
(0-D1 5K)	High	2480	1.26

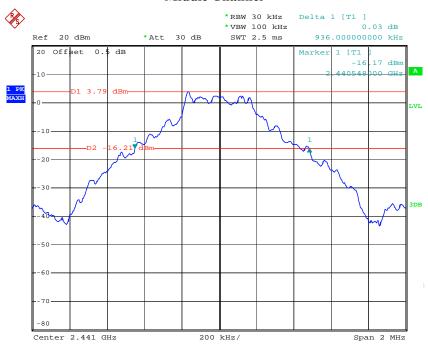
BDR Mode (GFSK):

Low Channel



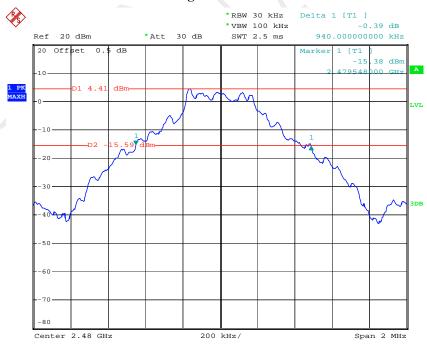
Date: 11.SEP.2018 08:36:49

Middle Channel



Date: 11.SEP.2018 08:39:47

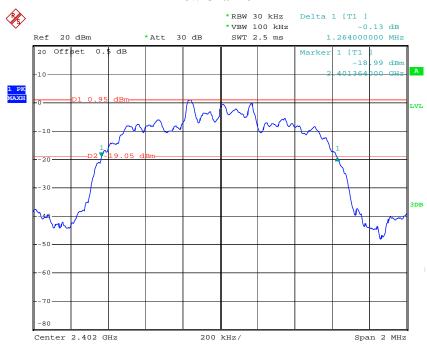
High Channel



Date: 11.SEP.2018 08:41:19

EDR Mode (\pi/4-DQPSK):

Low Channel



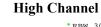
Date: 11.SEP.2018 08:43:08

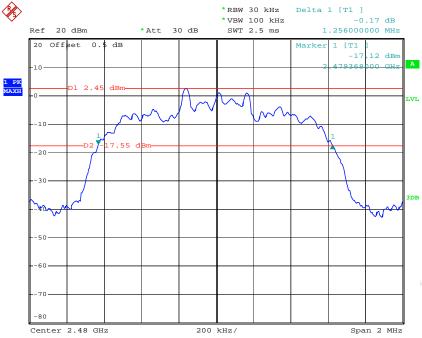
Middle Channel



Date: 11.SEP.2018 08:45:07



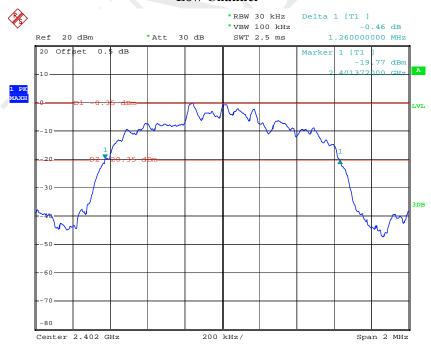




Date: 11.SEP.2018 08:46:39

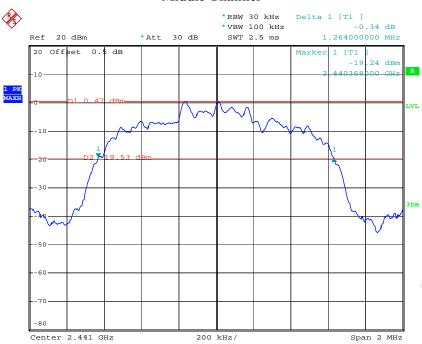
EDR Mode (8-DPSK):

Low Channel



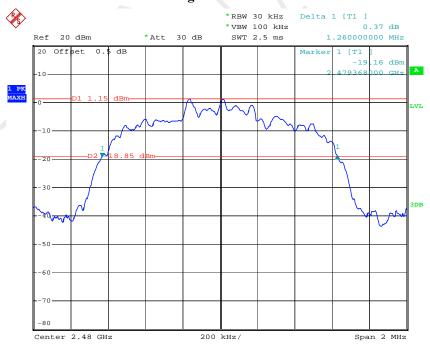
Date: 11.SEP.2018 08:48:29

Middle Channel



Date: 11.SEP.2018 08:50:16

High Channel



Date: 11.SEP.2018 08:51:45

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

Applicable Standard

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

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Data

Environmental Conditions

Temperature:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.3 kPa

^{*} The testing was performed by Elena Lei on 2018-09-11.

Test Result: Compliance.

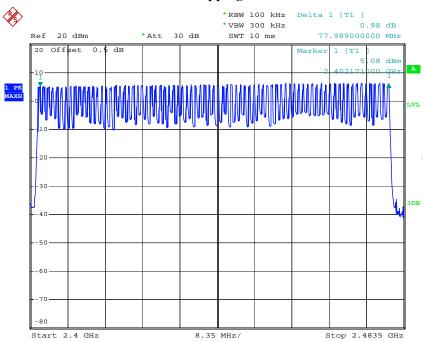
Please refer to following tables and plots

Test Mode: Transmitting

BDR Mode (GFSK):

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

Number of Hopping Channels



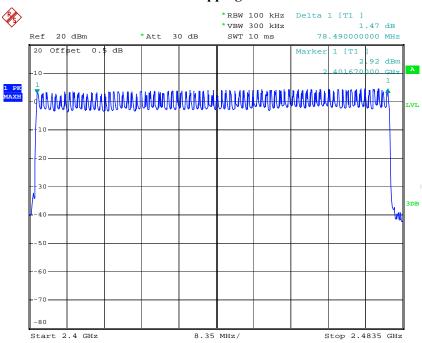
Date:

11.SEP.2018 09:10:30

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

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

Number of Hopping Channels

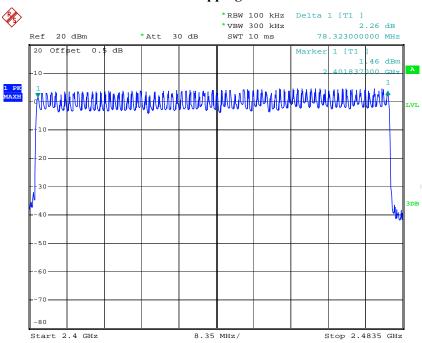


Date: 11.SEP.2018 09:17:03

EDR Mode (8-DPSK):

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

Number of Hopping Channels



Date: 11.SEP.2018 09:23:00

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

Applicable Standard

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

Test Procedure

The EUT was worked in channel hopping; the time of single pulses was tested.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Data

Environmental Conditions

Temperature:	28.5 °C		
Relative Humidity:	56 %		
ATM Pressure:	100.3 kPa		

^{*} The testing was performed by Elena Lei on 2018-09-11.

Test Result: Compliance.

Please refer to following tables and plots

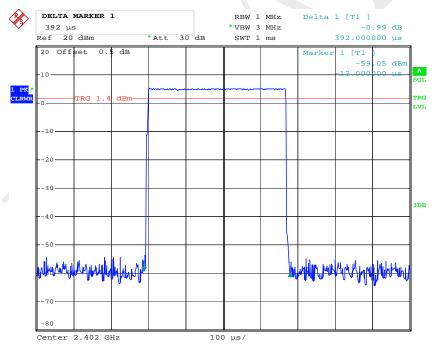
Report No.: RDG180903002-00B

Test Mode: Transmitting

BDR Mode (GFSK):

Mode	Mode Channel		Dwell Time (s)	Limit (s)	Result	
	Low	0.392	0.125	0.4	Compliance	
DH1	Middle	0.390	0.125	0.4	Compliance	
	High	0.396	0.127	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s					
	Low	1.676	0.268	0.4	Compliance	
DH3	Middle	1.676	0.268	0.4	Compliance	
DIIS	High	1.676	0.268	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s					
	Low	2.940	0.314	0.4	Compliance	
DH5	Middle	2.960	0.316	0.4	Compliance	
DIIS	High	2.950	0.315	0.4	Compliance	
	Note: Dwell tin	me=Pulse time	$(ms) \times (1600)$	$(6/79) \times 31$.6 s	

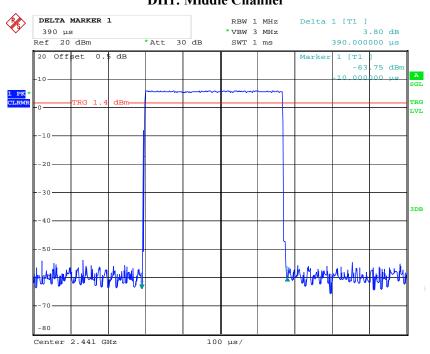
DH1: Low Channel



Date: 11.SEP.2018 09:27:00

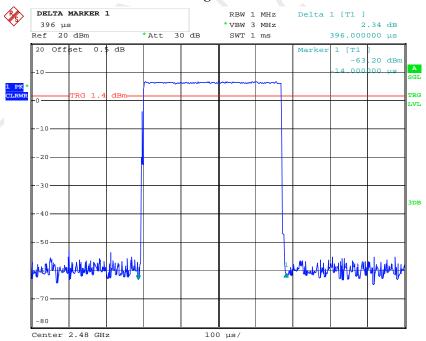
DH1: Middle Channel

Report No.: RDG180903002-00B



Date: 11.SEP.2018 09:27:38

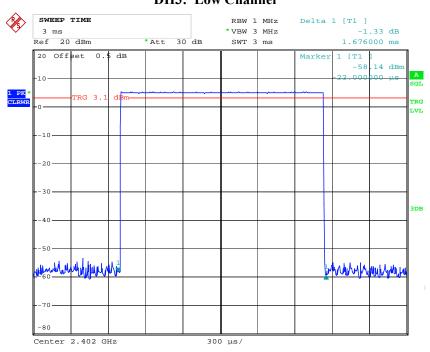
DH1: High Channel



Date: 11.SEP.2018 09:28:03

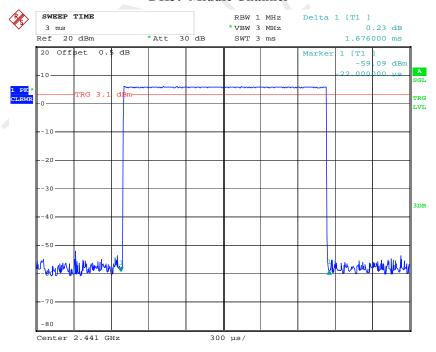
DH3: Low Channel

Report No.: RDG180903002-00B

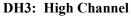


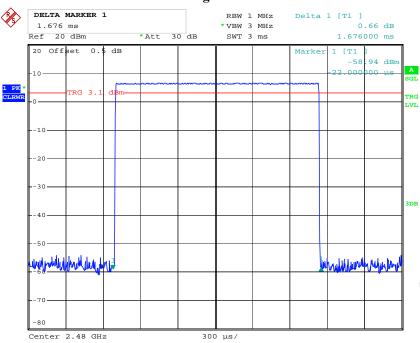
Date: 11.SEP.2018 09:35:00

DH3: Middle Channel



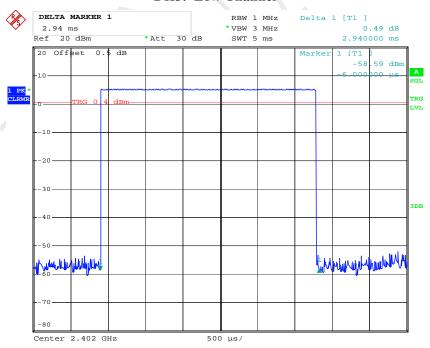
Date: 11.SEP.2018 09:35:20





Date: 11.SEP.2018 09:34:30

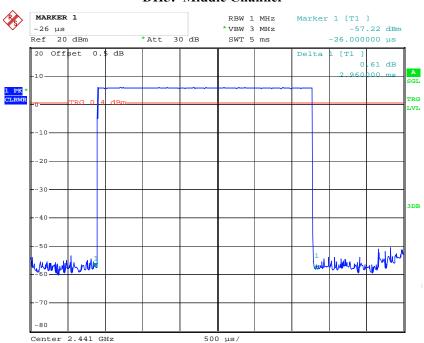
DH5: Low Channel



Date: 11.SEP.2018 09:39:15

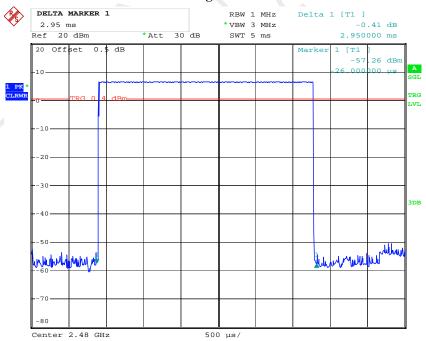
DH5: Middle Channel

Report No.: RDG180903002-00B



Date: 11.SEP.2018 09:39:57

DH5: High Channel

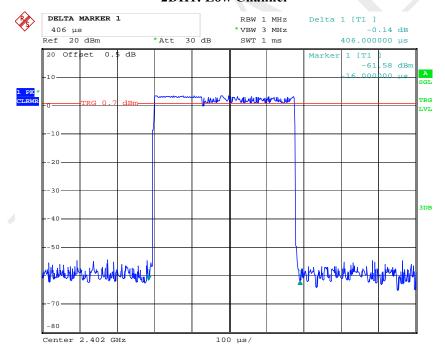


Date: 11.SEP.2018 09:40:26

EDR Mode (\pi/4-DQPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result	
	Low	0.406	0.130	0.4	Compliance	
2DH1	Middle	0.404	0.129	0.4	Compliance	
2DH1	High	0.398	0.127	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) \times (1600/2/79) \times 31.6 s					
	Low	1.670	0.267	0.4	Compliance	
2DH3	Middle	1.670	0.267	0.4	Compliance	
2ДП3	High	1.670	0.267	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) \times (1600/4/79) \times 31.6 s					
	Low	2.940	0.314	0.4	Compliance	
2DH5	Middle	2.930	0.313	0.4	Compliance	
20113	High	2.940	0.314	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) \times (1600/6/79) \times 31.6 s					

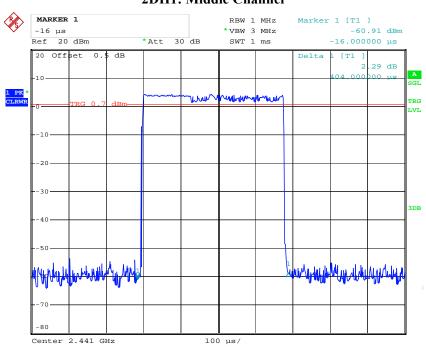
2DH1: Low Channel



Date: 11.SEP.2018 09:30:28

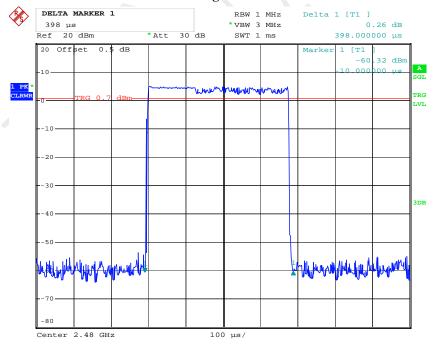
2DH1: Middle Channel

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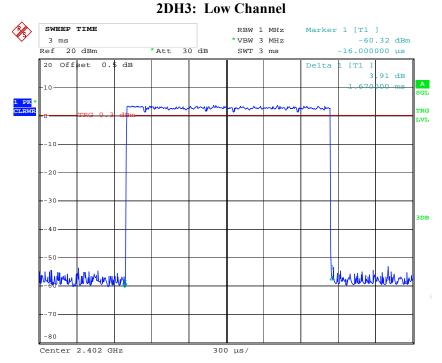


Date: 11.SEP.2018 09:30:08

2DH1: High Channel

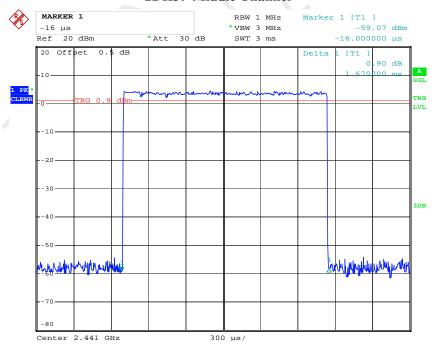


Date: 11.SEP.2018 09:29:44

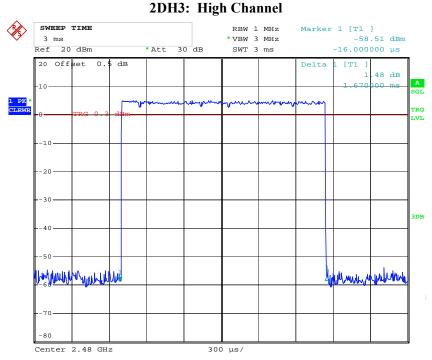


Date: 11.SEP.2018 09:36:49

2DH3: Middle Channel

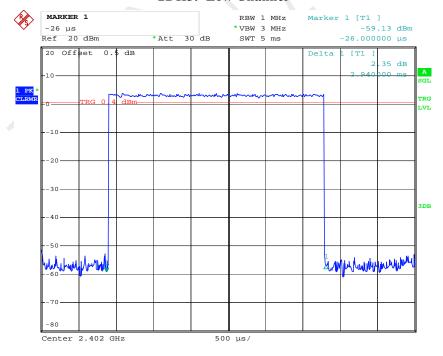


Date: 11.SEP.2018 09:36:25



Date: 11.SEP.2018 09:37:07

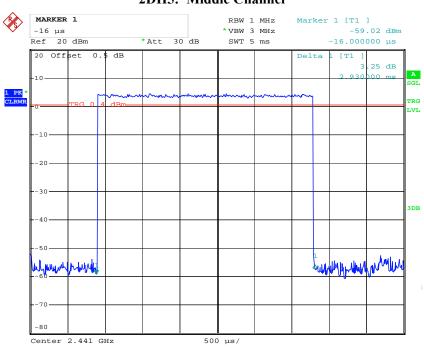
2DH5: Low Channel



Date: 11.SEP.2018 09:41:41

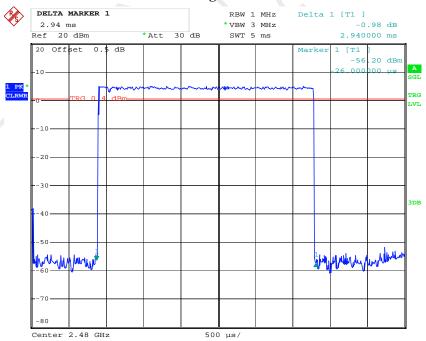
2DH5: Middle Channel

Report No.: RDG180903002-00B



Date: 11.SEP.2018 09:41:22

2DH5: High Channel

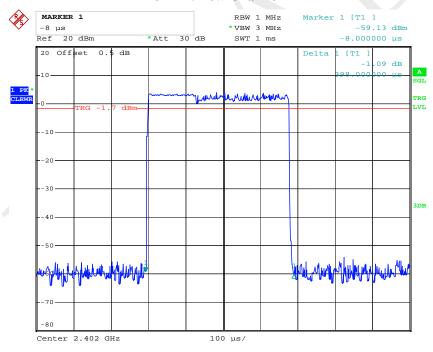


Date: 11.SEP.2018 09:40:54

EDR Mode (8-DPSK):

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result	
	Low	0.398	0.127	0.4	Compliance	
3DH1	Middle	0.400	0.128	0.4	Compliance	
3DH1	High	0.398	0.127	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) × (1600/2/79) ×31.6 s					
	Low	1.670	0.267	0.4	Compliance	
3DH3	Middle	1.670	0.267	0.4	Compliance	
SDIIS	High	1.670	0.267	0.4	Compliance	
	Note: Dwell time=Pulse time (ms) × (1600/4/79) ×31.6 s					
	Low	2.930	0.313	0.4	Compliance	
3DH5	Middle	2.950	0.315	0.4	Compliance	
зипз	High	2.950	0.315	0.4	Compliance	
	Note: Dwell ti	Note: Dwell time=Pulse time (ms) × (1600/6/79) ×31.6 s				

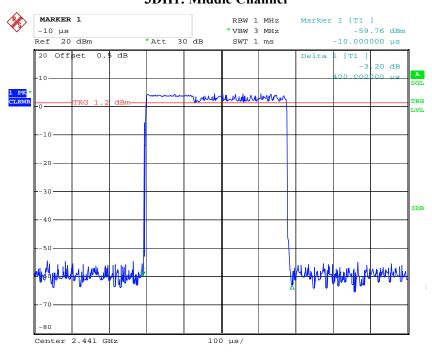
3DH1: Low Channel



Date: 11.SEP.2018 09:31:26

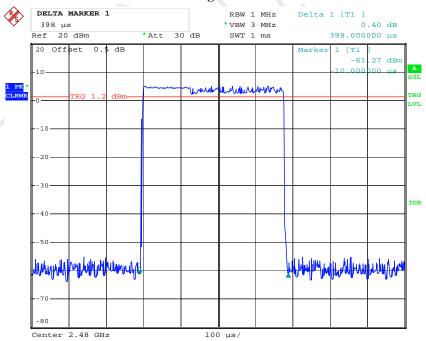
3DH1: Middle Channel

Report No.: RDG180903002-00B



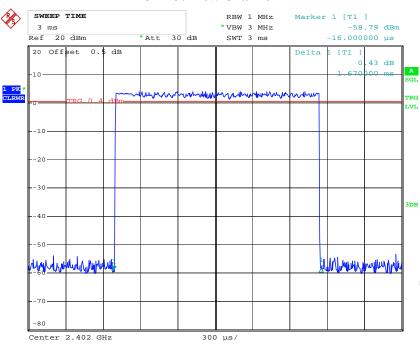
Date: 11.SEP.2018 09:31:54

3DH1: High Channel



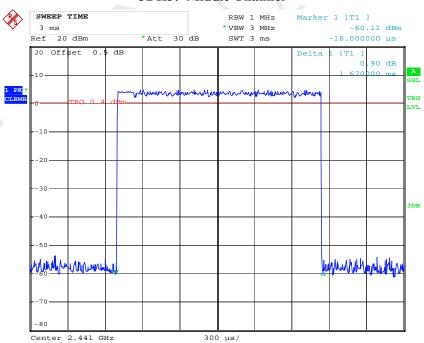
Date: 11.SEP.2018 09:32:44

3DH3: Low Channel

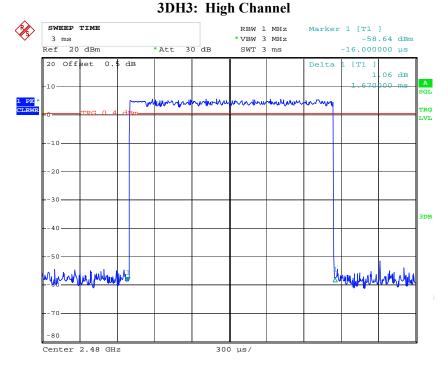


Date: 11.SEP.2018 09:38:22

3DH3: Middle Channel

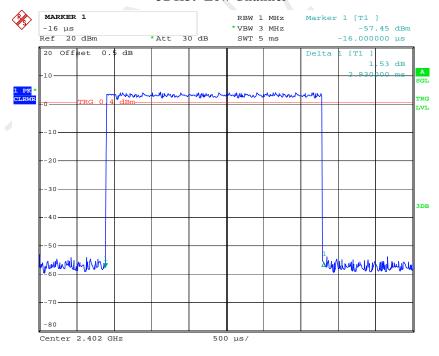


Date: 11.SEP.2018 09:38:09



Date: 11.SEP.2018 09:37:55

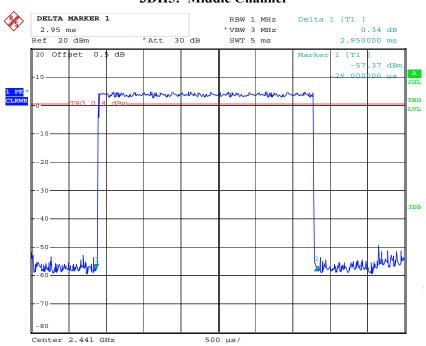
3DH5: Low Channel



Date: 11.SEP.2018 09:42:18

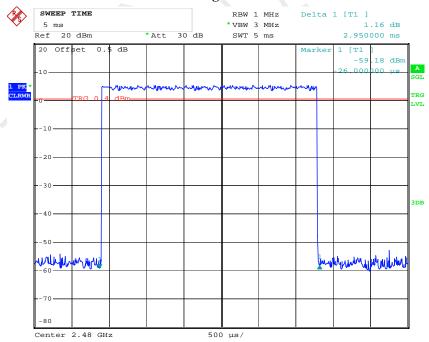
3DH5: Middle Channel

Report No.: RDG180903002-00B



Date: 11.SEP.2018 09:42:43

3DH5: High Channel



Date: 11.SEP.2018 09:43:11

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

Applicable Standard

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

Test Procedure

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Test Data

Environmental Conditions

Temperature:	28.5 °C	
Relative Humidity:	56 %	
ATM Pressure:	100.3 kPa	

^{*} The testing was performed by Elena Lei on 2018-09-11.

Test Result: Compliance.

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Report No.: RDG180903002-00B

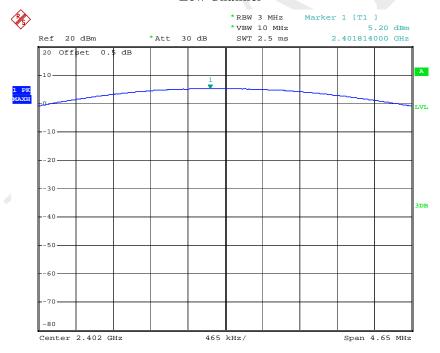
Test Mode: Transmitting

Mode	Frequency (MHz)	Peak Conducted Output power (dBm)	Limit (dBm)
DDD 14 1	2402	5.20	21
BDR Mode (GFSK)	2441	5.87	21
(Gr 5K)	2480	6.60	21
	2402	4.19	21
EDR Mode (π/4-DQPSK)	2441	4.80	21
(##-DQI 5K)	2480	5.41	21
	2402	4.56	21
EDR Mode (8-DPSK)	2441	5.20	21
(6-DF3K)	2480	5.87	21

Note: The data above was tested in conducted mode.

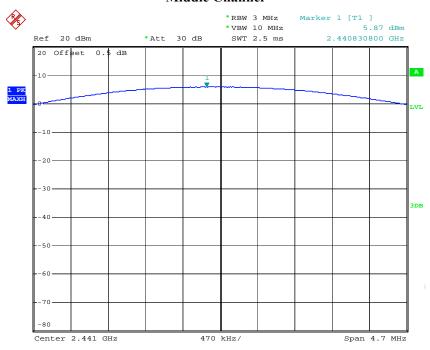
BDR Mode (GFSK):

Low Channel



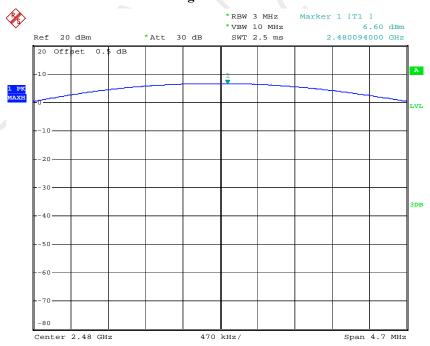
Date: 11.SEP.2018 08:37:29

Middle Channel



Date: 11.SEP.2018 08:40:22

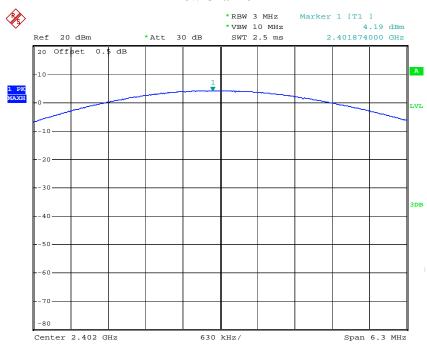
High Channel



Date: 11.SEP.2018 08:41:48

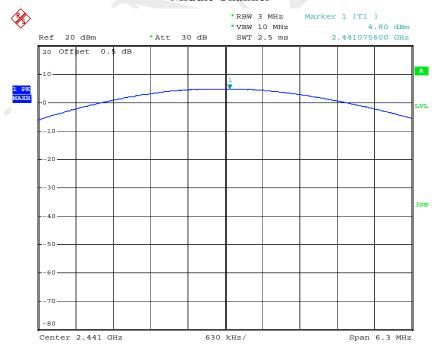
EDR Mode (\pi/4-DQPSK):





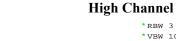
Date: 11.SEP.2018 08:43:46

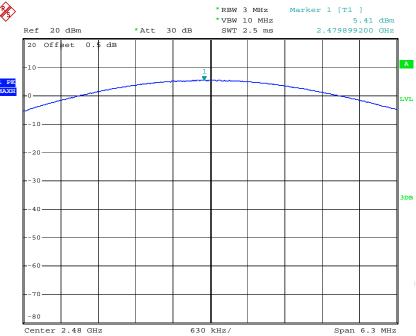
Middle Channel



Date: 11.SEP.2018 08:45:42



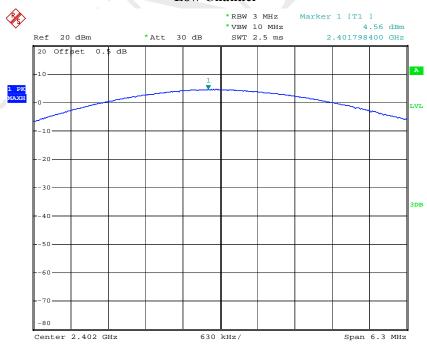




Date: 11.SEP.2018 08:47:11

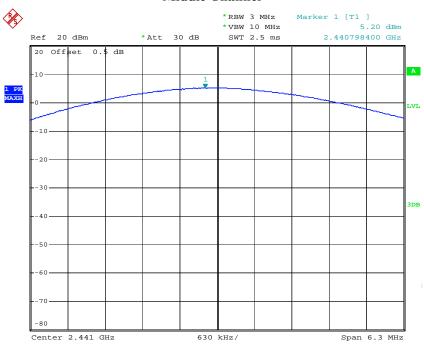
EDR Mode (8-DPSK):

Low Channel



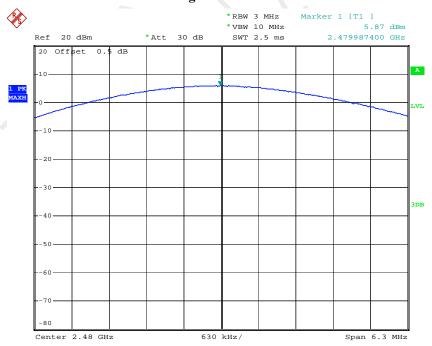
11.SEP.2018 08:49:08 Date:

Middle Channel



Date: 11.SEP.2018 08:50:51

High Channel



Date: 11.SEP.2018 08:52:20

FCC §15.247(d) - BAND EDGES TESTING

Applicable Standard

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

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW/ VBW of spectrum analyzer to 100/300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESPI	100120	2017-12-11	2018-12-11
Unknown	Coaxial Cable	C-SJ00-0010	C0010/01	Each time	N/A

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

Report No.: RDG180903002-00B

Test Data

Environmental Conditions

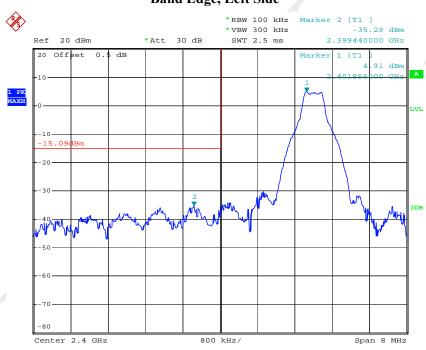
Temperature:	28.5 °C
Relative Humidity:	56 %
ATM Pressure:	100.3 kPa

^{*} The testing was performed by Elena Lei on 2018-09-11

Test Result: Compliance

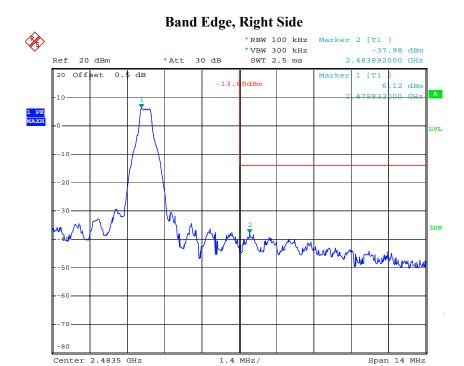
Single mode: BDR Mode (GFSK):

Band Edge, Left Side



Date: 11.SEP.2018 08:37:56

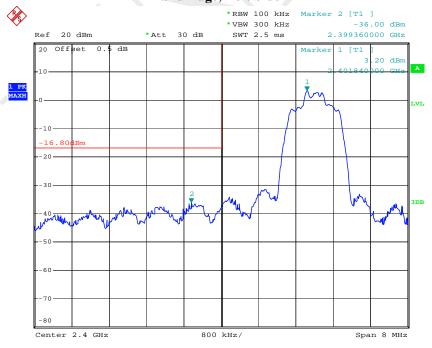
Report No.: RDG180903002-00B



Date: 11.SEP.2018 08:42:18

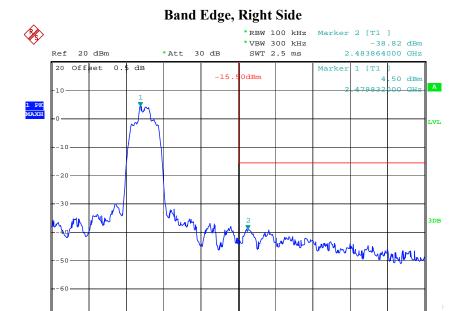
EDR Mode ($\pi/4$ -DQPSK):

Band Edge, Left Side



Date: 11.SEP.2018 08:44:25

Span 14 MHz



Date: 11.SEP.2018 08:47:41

Center 2.4835 GHz

-80

EDR Mode (8-DPSK):

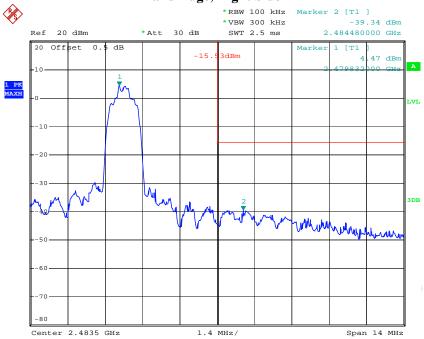
Band Edge, Left Side

1.4 MHz/



Date: 11.SEP.2018 08:49:43

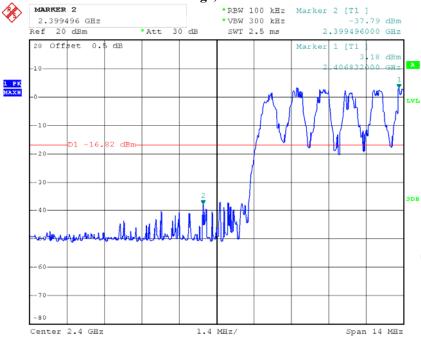
Band Edge, Right Side



Date: 11.SEP.2018 08:52:59

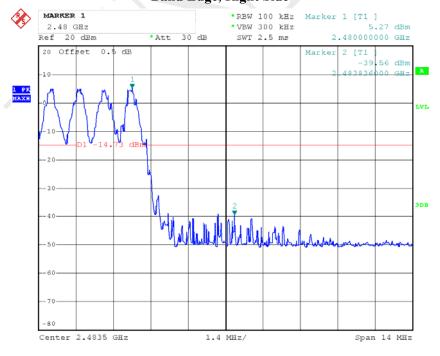
Hopping mode: BDR Mode (GFSK):





Date: 11.SEP.2018 09:25:44

Band Edge, Right Side

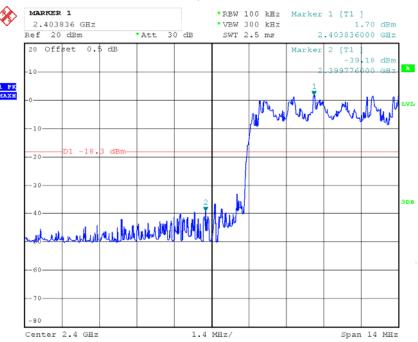


Date: 11.SEP.2018 09:26:44

EDR Mode (\pi/4-DQPSK):

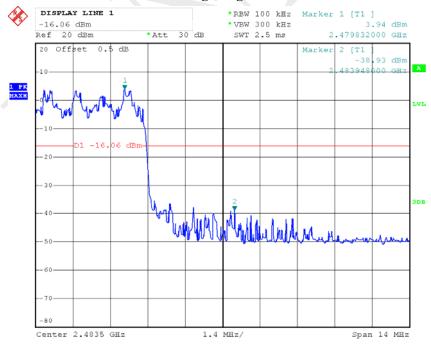
Band Edge, Left Side

Report No.: RDG180903002-00B



Date: 11.SEP.2018 09:20:18

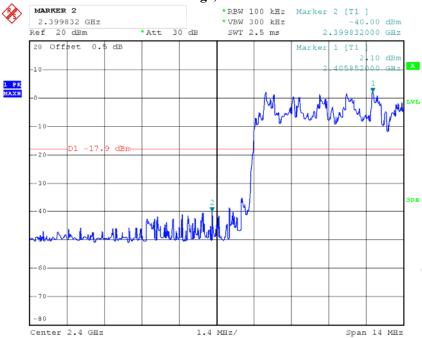
Band Edge, Right Side



Date: 11.SEP.2018 09:21:44

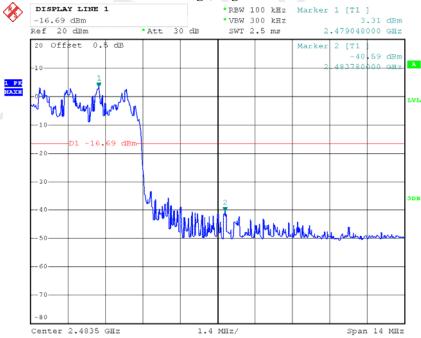
EDR Mode (8-DPSK):

Band Edge, Left Side



Date: 11.SEP.2018 09:24:45

Band Edge, Right Side



Date: 11.SEP.2018 09:23:34

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