



FCC PART 15.247 TEST REPORT

For

Advanced Mobile Payment Inc.

Units 401-403, 15 Wertheim Court. Richmond Hill, Ontario L4B 3H7 Canada

FCC ID: 2AKJB-AMP6700

Report Type:
Original Report

Report Number: RSZ180809001-00B

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Advanced Mobile Payment Inc.'s product, model number: AMP 6700 (FCC ID: 2AKJB-AMP6700) or the "EUT" in this report was a AMP 6700, which was measured approximately: 19.7 cm (L) * 19.2 cm (W) *4.4 cm (H), rated with input voltage: DC 9.5V from adapter.

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Adapter Information:

Model: ADS-25SG-12-2 09524E

Input: AC 100-240V, 50/60Hz, Max. 0.7 A

Output: DC 9.5V, 2.5A

*All measurement and test data in this report was gathered from production sample serial number: 180809001. (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2018-08-09.

Objective

This test report is prepared on behalf of *Advanced Mobile Payment Inc.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15B JAB, Part 15.247 DTS and Part 15.225 DXX submissions with FCC ID: 2AKJB-AMP6700.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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Measurement Uncertainty

Parameter		Uncertainty	
Occupied Cha	nnel Bandwidth	±5%	
RF Output Power	with Power meter	±0.5dB	
RF conducted to	est with spectrum	±1.5dB	
AC Power Lines C	onducted Emissions	±1.95dB	
Emissions,	Below 1GHz	±4.75dB	
Radiated	Above 1GHz	±4.88dB	
Temperature		±3℃	
Humidity		±6%	
Supply voltages		±0.4%	

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Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, 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.: 342867, the FCC Designation No.: CN1221.

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

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

Exercise Software "SecureCRT.exe" was used to the EUT tested and the power level is 9 (Specify Power Table index).

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Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

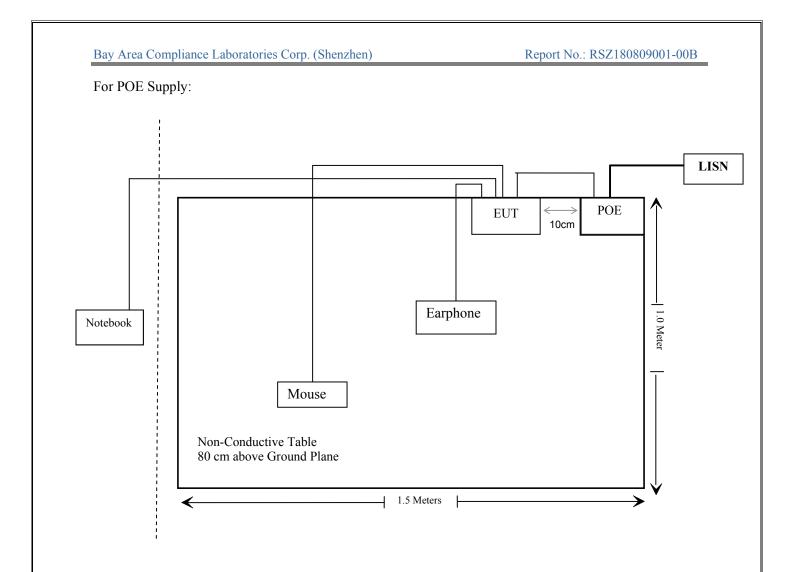
Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	SR860	100000633225
Lenovo	Notebook	Air 15	100897564
Lenovo	Mouse	M300	11093844046
Philip	Earphone	SHE3705BK	28232617325
N/A	POE	PSE801FM	N/A

External I/O Cable

Cable Description	Length (m)	From/Port	То
Un-Shielding Detachable DC Cable	1.2	EUT	Adapter
Un-shielding Detachable AC Cable	0.8	Adapter	Receptacle
Un-shielding Detachable Earphone Cable	0.8	EUT	Earphone
Un-shielding Undetachable AC Cable	1.0	Receptacle	LISN
Un-shielding Detachable RJ45 Cable	0.8	EUT	POE
Un-shielding Detachable AC Cable	1.0	POE	LISN

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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1)& §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliance
§15.247(a)(1)	20 dB Emission 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

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Conducted Emissions Test							
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2018-08-04	2019-08-04		
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2017-12-21	2018-12-21		
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2018-05-12	2018-11-21		
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR		
/	Conducted Emission Cable	/	UF A210B-1- 0720-504504	2018-05-12	2018-11-12		
	Radia	ated Emission T	'est				
A.H.System	Horn Antenna	SAS-200/571	135	2018-08-18	2021-08-17		
Rohde & Schwarz	Signal Analyzer	FSEM	845987/005	2018-06-23	2019-06-23		
COM-POWER	Pre-amplifier	PA-122	181919	2018-05-22	2018-11-22		
Sonoma instrument	Amplifier	310N	186238	2018-05-12	2018-11-12		
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017-12-22	2020-12-21		
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2018-01-11	2019-01-11		
Ducommun technologies	RF Cable	UFA147A- 2362-100100	MFR64639 231029-003	2018-08-01	2019-02-01		
Ducommun technologies	RF Cable	104PEA	218124002	2018-05-21	2018-11-21		
Ducommun technologies	RF Cable	RG-214	1	2018-05-21	2018-11-19		
Ducommun technologies	RF Cable	RG-214	2	2018-05-22	2018-11-22		
Ducommun Technologies	Horn Antenna	ARH-4223- 02	1007726-04	2017-12-29	2020-12-28		
Heatsink Required	Amplifier	QLW- 18405536-J0	15964001002	2018-08-01	2019-02-01		
Sinoscite	Notch Filter	BSF2402- 2480MN- 0898-001	N/A	2018-05-21	2018-11-21		
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR		

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

FCC §15.247 (i) & §1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 1.1307 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

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Limits for General Population/Uncontrolled Exposure					
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)	
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	$*(180/f^2)$	30	
30-300	27.5	0.073	0.2	30	
300-1500	/	/	f/1500	30	
1500-100,000	/	/	1.0	30	

f = frequency in MHz

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency	Ante	Antenna Gain		Maximum Tune-up power		Power Density	MPE Limit
(MHz)	(dBi)	(numeric)	(dBm)	(mW)	Distance (cm)	(mW/cm^2)	(mW/cm ²)
BT	1.5	1.41	7.0	5.01	20	0.0014	1

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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^{* =} Plane-wave equivalent power density

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.

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Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached and the antenna gain is 1.5 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

EUT Setup



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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 measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

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 LISN.

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

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

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Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

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

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Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

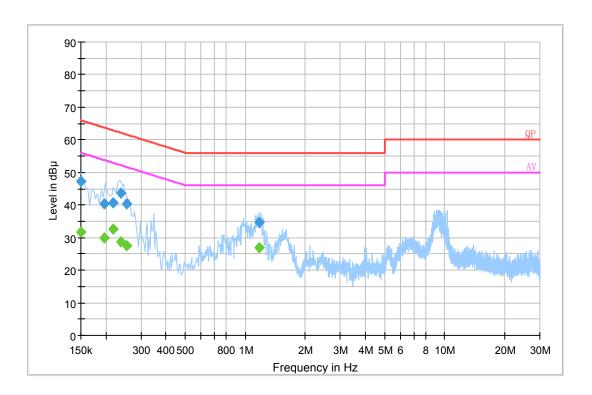
Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Shawn Xiao on 2018-10-13.

EUT operation mode: Transmitting & Charging (the worst case is GFSK Mode, Low channel)

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AC 120V/60 Hz, Line

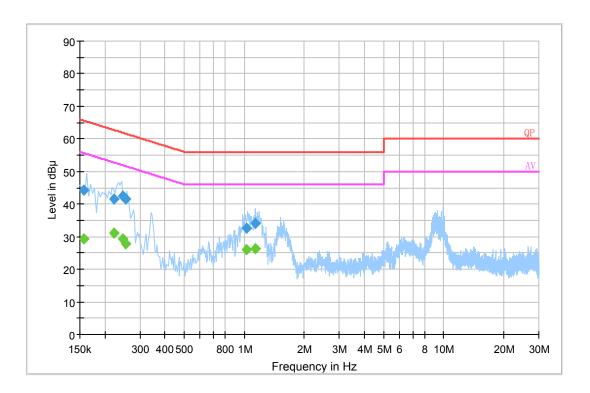


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.150000	47.2	19.8	66.0	18.8	QP
0.197500	40.2	19.8	63.7	23.5	QP
0.217500	40.5	19.7	62.9	22.4	QP
0.238500	43.6	19.7	62.1	18.5	QP
0.253500	40.5	19.7	61.6	21.1	QP
1.176390	34.8	19.8	56.0	21.2	QP
0.150000	31.7	19.8	56.0	24.3	Ave.
0.197500	30.0	19.8	53.7	23.7	Ave.
0.217500	32.6	19.7	52.9	20.3	Ave.
0.238500	28.7	19.7	52.1	23.4	Ave.
0.253500	27.5	19.7	51.6	24.1	Ave.
1.176390	26.8	19.8	46.0	19.2	Ave.

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AC 120V/60 Hz, Neutral



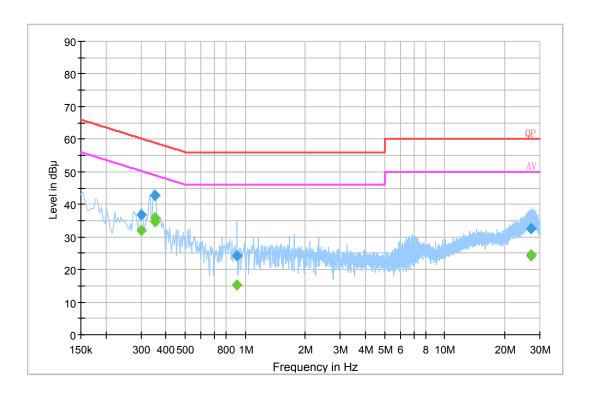
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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.157500	44.2	19.7	65.6	21.4	QP
0.221500	41.5	19.7	62.8	21.3	QP
0.246500	42.6	19.7	61.9	19.3	QP
0.253500	41.7	19.7	61.6	19.9	QP
1.022430	32.7	19.8	56.0	23.3	QP
1.140930	34.0	19.8	56.0	22.0	QP
0.157500	29.4	19.7	55.6	26.2	Ave.
0.221500	31.0	19.7	52.8	21.8	Ave.
0.246500	29.2	19.7	51.9	22.7	Ave.
0.253500	27.9	19.7	51.6	23.7	Ave.
1.022430	26.1	19.8	46.0	19.9	Ave.
1.140930	26.4	19.8	46.0	19.6	Ave.

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POE Supply:

AC 120V/60 Hz, Line

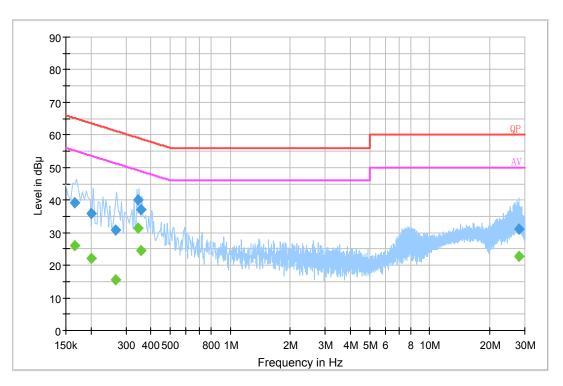


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.301470	36.7	19.8	60.2	23.5	QP
0.351190	42.6	19.7	58.9	16.3	QP
0.352690	42.6	19.7	58.9	16.3	QP
0.904350	24.3	19.7	56.0	31.7	QP
27.077470	32.7	20.4	60.0	27.3	QP
27.165790	32.7	20.4	60.0	27.3	QP
0.301470	32.1	19.8	50.2	18.1	Ave.
0.351190	35.9	19.7	48.9	13.0	Ave.
0.352690	34.7	19.7	48.9	14.2	Ave.
0.904350	15.4	19.7	46.0	30.6	Ave.
27.077470	24.1	20.4	50.0	25.9	Ave.
27.165790	24.4	20.4	50.0	25.6	Ave.

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AC 120V/60 Hz, Neutral



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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.165500	39.2	19.7	65.2	26.0	QP
0.201500	35.9	19.7	63.5	27.6	QP
0.265500	30.8	19.7	61.3	30.5	QP
0.344750	40.2	19.7	59.1	18.9	QP
0.356570	37.1	19.7	58.8	21.7	QP
28.107590	31.0	20.4	60.0	29.0	QP
0.165500	26.2	19.7	55.2	29.0	Ave.
0.201500	22.0	19.7	53.5	31.5	Ave.
0.265500	15.4	19.7	51.3	35.9	Ave.
0.344750	31.4	19.7	49.1	17.7	Ave.
0.356570	24.7	19.7	48.8	24.1	Ave.
28.107590	22.8	20.4	50.0	27.2	Ave.

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor 3) Margin = Limit Corrected Amplitude

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FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:



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Above 1GHz:



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

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

Frequency Range RBW		Video B/W	IF B/W	Measurement	
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP	
Al 1 CII-	1 MHz	3 MHz	/	PK	
Above 1 GHz	1 MHz	10 Hz	/	Average	

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Test Procedure

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

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection modes for frequencies above 1 GHz.

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 Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.</u>

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_{\rm m} + U_{(L{\rm m}\,)} \le L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

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Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

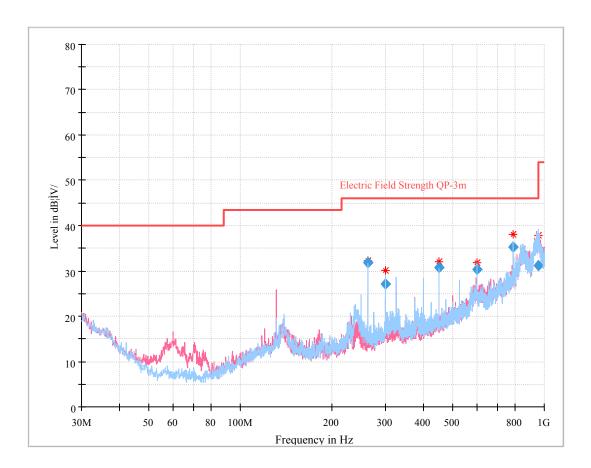
The testing was performed by Shawn Xiao on 2018-09-25.

EUT operation mode: Transmitting (Scan with GFSK, $\pi/4$ -DQPSK, 8-DPSK mode, the worst case is GFSK Mode)

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30 MHz~1 GHz: (the worst case is GFSK Mode, Low channel)



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Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
262.489250	31.79	124.0	Н	37.0	-13.2	46.00	14.21
299.994250	27.20	113.0	Н	108.0	-10.6	46.00	18.80
450.005750	30.86	108.0	Н	225.0	-8.2	46.00	15.14
600.015250	30.35	110.0	Н	260.0	-1.6	46.00	15.65
787.517250	35.27	108.0	Н	16.0	1.3	46.00	10.73
954.758875	31.25	380.0	Н	58.0	9.6	46.00	14.75

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1 GHz - 25 GHz:

T.	Receiver		T	Rx An	itenna	Corrected	Corrected	T • •,	3.4	
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height (m)		Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
	Low Channel (2402 MHz)									
2402.00	70.83	PK	181	2.5	Н	33.00	103.83	/	/	
2402.00	59.10	Ave.	181	2.5	Н	33.00	92.10	/	/	
2402.00	61.49	PK	229	1.8	V	33.00	94.49	/	/	
2402.00	49.87	Ave.	229	1.8	V	33.00	82.87	/	/	
2390.00	27.39	PK	99	1.6	Н	33.00	60.39	74	13.61	
2390.00	13.47	Ave.	99	1.6	Н	33.00	46.47	54	7.53	
2483.50	27.05	PK	82	2.4	Н	33.20	60.25	74	13.75	
2483.50	13.26	Ave.	82	2.4	Н	33.20	46.46	54	7.54	
4804.00	48.34	PK	150	1.5	Н	7.88	56.22	74	17.78	
4804.00	40.68	Ave.	150	1.7	Н	7.88	48.56	54	5.44	
			Middle C	hannel	(2441 N	(Hz)				
2441.00	70.50	PK	271	1.5	Н	33.10	103.60	/	/	
2441.00	58.89	Ave.	271	1.5	Н	33.10	91.99	/	/	
2441.00	61.72	PK	108	2.2	V	33.10	94.82	/	/	
2441.00	49.92	Ave.	108	2.2	V	33.10	83.02	/	/	
4882.00	46.38	PK	337	2.0	Н	9.21	55.59	74	18.41	
4882.00	38.75	Ave.	337	2.0	Н	9.21	47.96	54	6.04	
			High Ch	annel (2	2480 M	Hz)				
2480.00	70.44	PK	246	2.1	Н	33.20	103.64	/	/	
2480.00	58.35	Ave.	246	2.1	Н	33.20	91.55	/	/	
2480.00	61.30	PK	93	1.8	V	33.20	94.50	/	/	
2480.00	49.52	Ave.	93	1.8	V	33.20	82.72	/	/	
2390.00	27.16	PK	282	1.2	Н	33.00	60.16	74	13.84	
2390.00	13.34	Ave.	282	1.2	Н	33.00	46.34	54	7.66	
2483.50	30.43	PK	285	1.4	Н	33.20	63.63	74	10.37	
2483.50	18.23	Ave.	285	1.4	Н	33.20	51.43	54	2.57	
4960.00	46.77	PK	51	2.4	Н	9.07	55.84	74	18.16	
4960.00	36.88	Ave.	51	2.4	Н	9.07	45.95	54	8.05	

Report No.: RSZ180809001-00B

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading

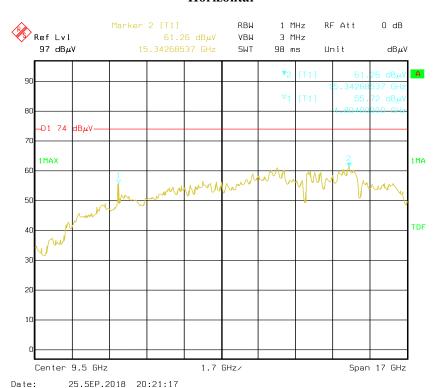
Margin = Limit - Corrected. Amplitude

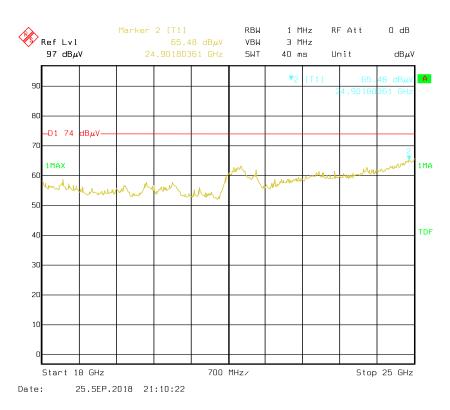
The other spurious emission which is 20dB to the limit was not recorded. And for the pre-scan is performed with the 2400-2483.5MHz band filter.

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Pre-scan with Low channel Peak Horizontal

Report No.: RSZ180809001-00B

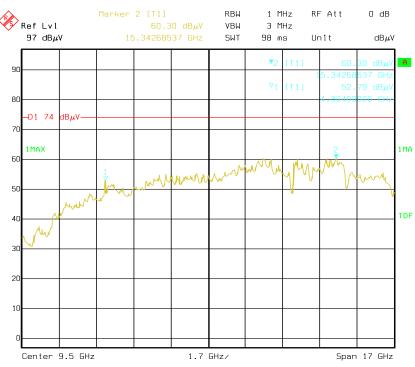




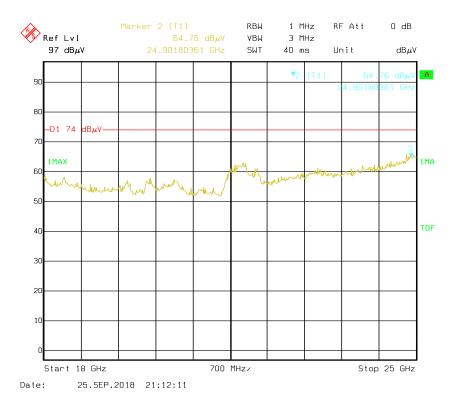
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Vertical

Report No.: RSZ180809001-00B



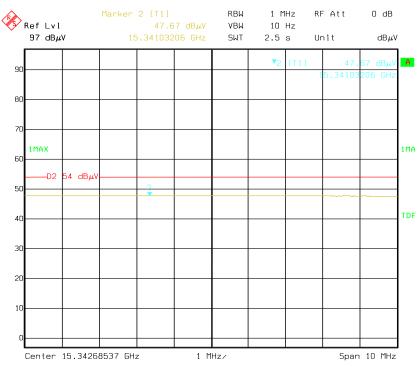
Date: 25.SEP.2018 20:24:09



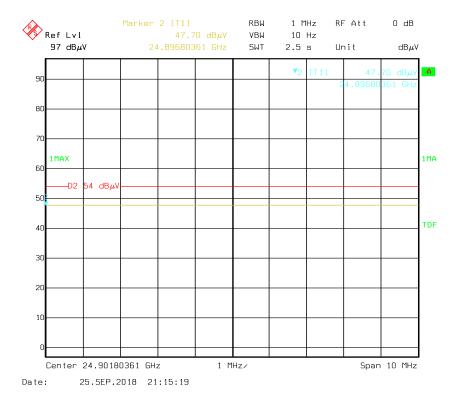
FCC Part 15.247 Page 26 of 64

Pre-scan for Average Horizontal

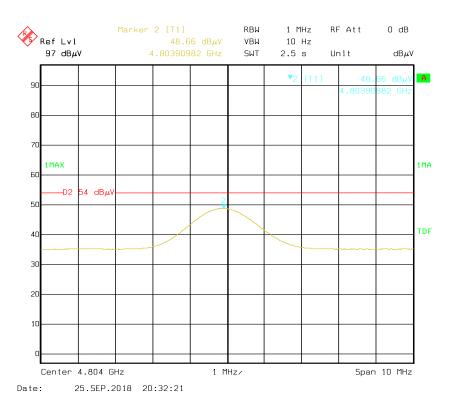
Report No.: RSZ180809001-00B



Date: 25.SEP.2018 20:27:26

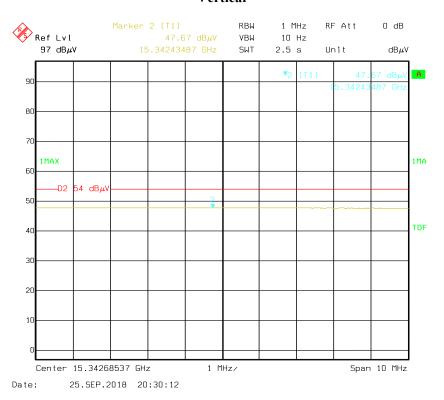


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Report No.: RSZ180809001-00B

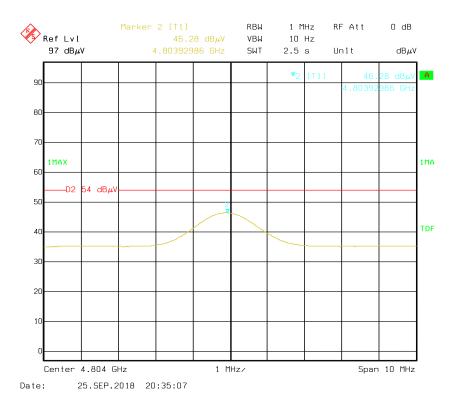
Vertical



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Report No.: RSZ180809001-00B





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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 20 dB bandwidth of the hopping channel, whichever is greater. 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Report No.: RSZ180809001-00B

Test Procedure

- Set the EUT in transmitting mode, maxhold the channel. Set the adjacent channel of the EUT and maxhold another trace.
- 3. Measure the channel separation.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Shawn Xiao on 2018-09-13.

FCC Part 15.247 Page 30 of 64 EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table and plots.

Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	≥Limit (MHz)	Result
	Low	2402	1.010	0.789	Pass
	Adjacent	2403	1.010	0.789	
BDR	Middle	2441	1.000	0.692	Pass
(GFSK)	Adjacent	2442	1.000	0.092	Pass
	High	2480	1,000	0.602	Dava
	Adjacent	2479	1.000	0.692	Pass
	Low	2402	1.000	0.894	D
	Adjacent	2403	1.000		Pass
EDR	Middle	2441	1.003	0.894	Pass
(π/4-DQPSK)	Adjacent	2442	1.003		
	High	2480	0.007	0.897	Pass
	Adjacent	2479	0.997		
	Low	2402	1,000	0.862	Dogg
	Adjacent	2403	1.000		Pass
EDR	Middle	2441	1.000	0.856	Pass
(8-DPSK)	Adjacent	2442	1.000		rass
	High	2480	1.003	0.856	Dogg
	Adjacent	2479	1.003		Pass

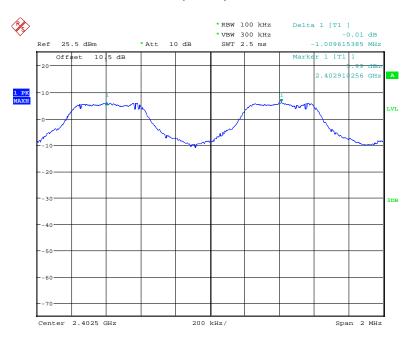
Report No.: RSZ180809001-00B

Note: Limit = 20 dB bandwidth *2/3

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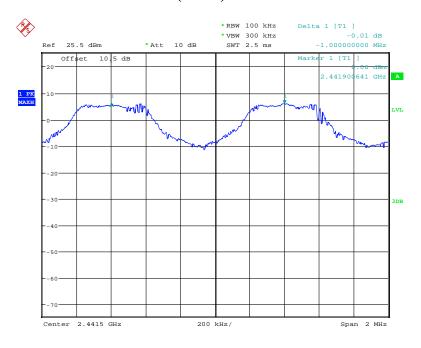
BDR (GFSK): Low Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 21:40:25

BDR (GFSK): Middle Channel

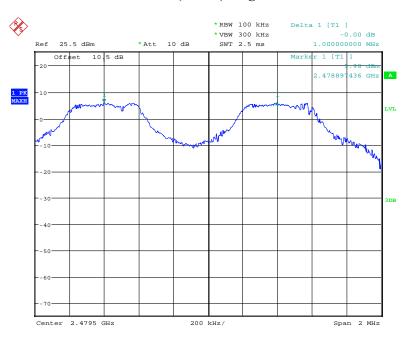


Date: 13.SEP.2018 21:42:39

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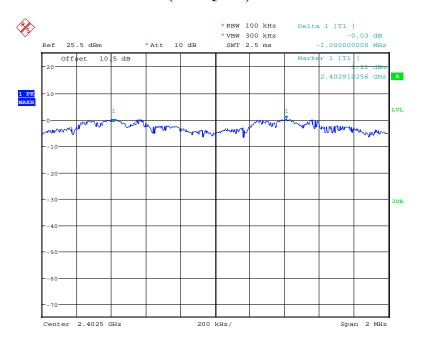
BDR (GFSK): High Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 21:44:15

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

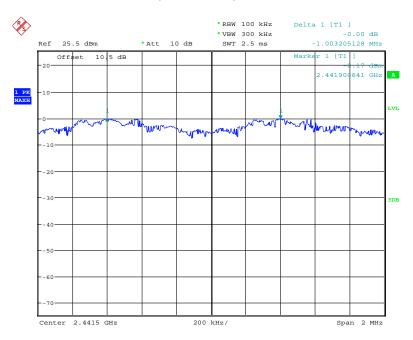


Date: 13.SEP.2018 21:48:29

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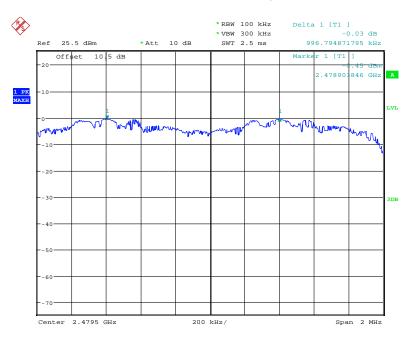
EDR ($\pi/4$ -DQPSK): Middle Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 21:51:01

EDR ($\pi/4$ -DQPSK): High Channel

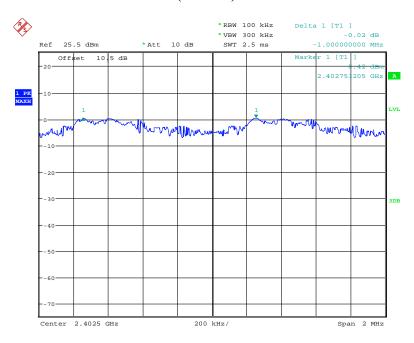


Date: 13.SEP.2018 21:53:25

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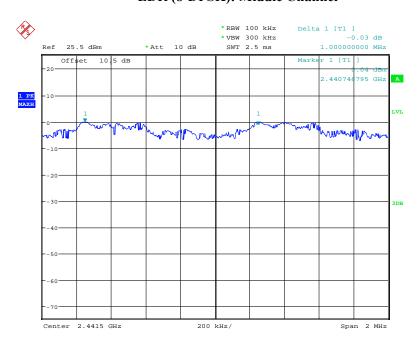
EDR (8-DPSK): Low Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 21:56:00

EDR (8-DPSK): Middle Channel

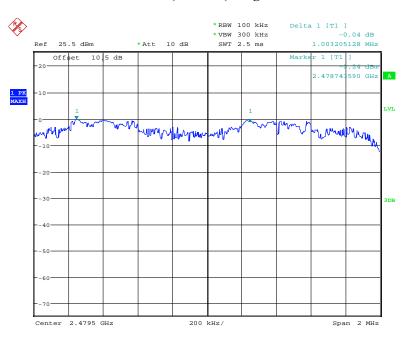


Date: 13.SEP.2018 21:58:27

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EDR (8-DPSK): High Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 22:00:36

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FCC $\S15.247(a)$ (1) – 20 dB EMISSION BANDWIDTH

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.: RSZ180809001-00B

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 without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. 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 Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Shawn Xiao on 2018-09-13.

EUT operation mode: Transmitting

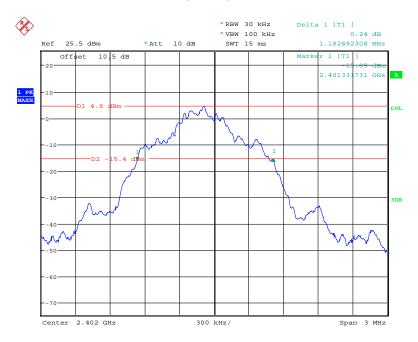
Test Result: Compliance. Please refer to following table and plots.

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Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)	
	Low	2402	1.183	
BDR (GFSK)	Middle	2441	1.038	
(GI SIL)	High	2480	1.038	
EDR (π/4-DQPSK)	Low	2402	1.341	
	Middle	2441	1.341	
	High	2480	1.346	
EDR (8-DPSK)	Low	2402	1.293	
	Middle	2441	1.284	
	High	2480	1.284	

Report No.: RSZ180809001-00B

BDR (GFSK): Low Channel

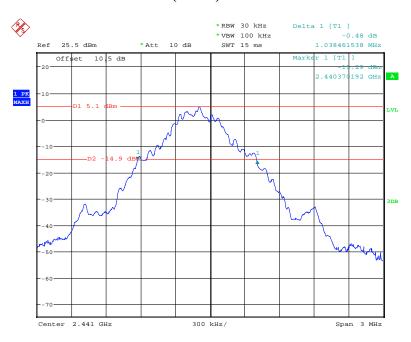


Date: 13.SEP.2018 21:19:38

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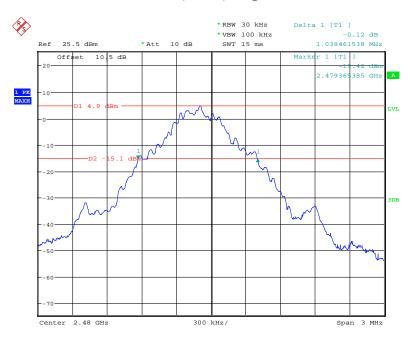
BDR (GFSK): Middle Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 21:26:37

BDR (GFSK): High Channel

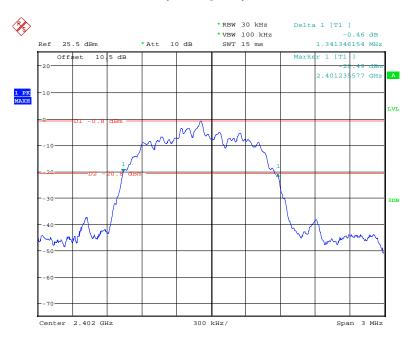


Date: 13.SEP.2018 21:27:56

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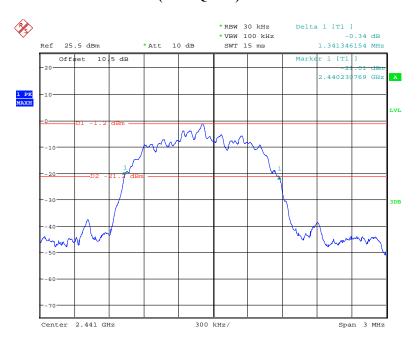
EDR ($\pi/4$ -DQPSK): Low Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 21:29:10

EDR ($\pi/4$ -DQPSK): Middle Channel

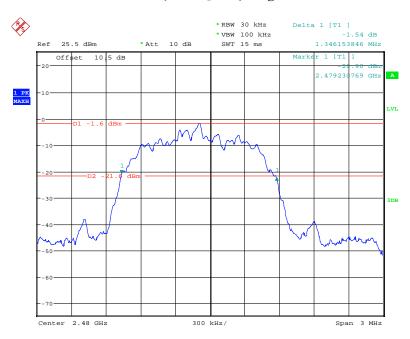


Date: 13.SEP.2018 21:30:21

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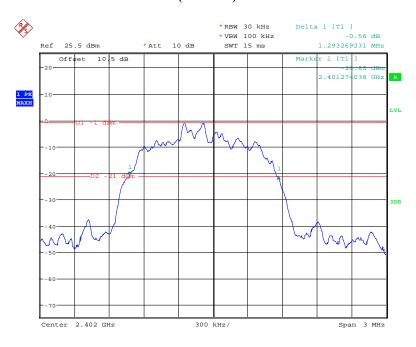
EDR ($\pi/4$ -DQPSK): High Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 21:31:12

EDR (8-DPSK): Low Channel

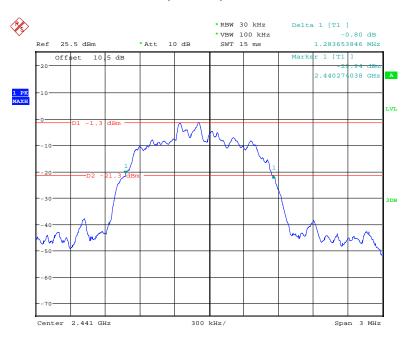


Date: 13.SEP.2018 21:32:21

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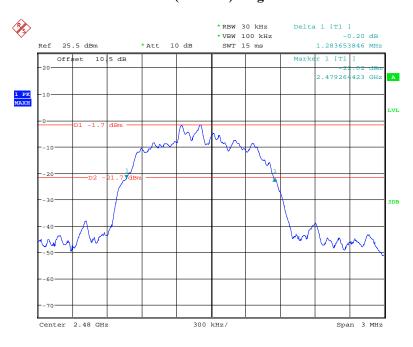
EDR (8-DPSK): Middle Channel

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 21:33:24

EDR (8-DPSK): High Channel



Date: 13.SEP.2018 21:34:29

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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.

Report No.: RSZ180809001-00B

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 Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Shawn Xiao on 2018-09-13.

EUT operation mode: Transmitting

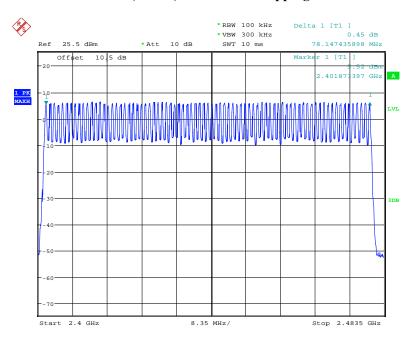
Test Result: Compliance. Please refer to following table and plots.

Mode	Frequency Range (MHz)	Number of Hopping Channel (CH)	Limit (CH)	
BDR (GFSK)	2400-2483.5	79	≥15	
EDR (π/4-DQPSK)	2400-2483.5	79	≥15	
EDR (8-DPSK)	2400-2483.5	79	≥15	

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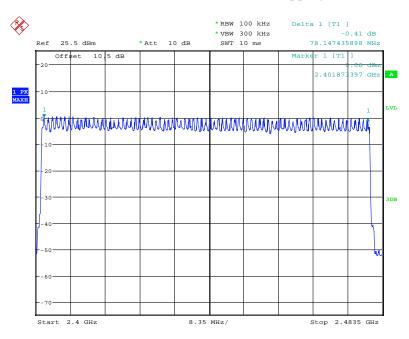
BDR (GFSK): Number of Hopping Channels

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 22:39:09

EDR ($\pi/4$ -DQPSK): Number of Hopping Channels

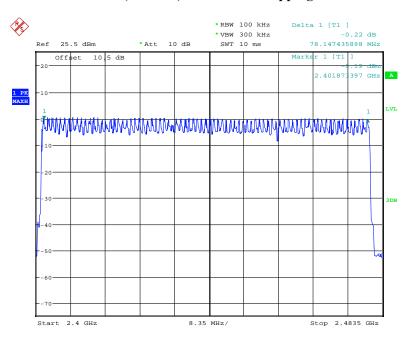


Date: 13.SEP.2018 22:42:33

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EDR (8-DPSK): Number of Hopping Channels

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 22:45:15

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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.

Report No.: RSZ180809001-00B

Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test or each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period pecified in the requirements. The sweep time shall be equal to, or less than, the period specified in the equirements. Determine the number of hops over the sweep time and calculate the total number of hops in he period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) =

(number of hops on spectrum analyzer) \times (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of ops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Shawn Xiao on 2018-09-13.

EUT operation mode: Transmitting

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Test Result: Compliance. Please refer to following table and plots

Mo	de	Pulse Time (ms)	Hopping Number	Period Time (s)	Total of Dwell (ms)	Limit (ms)	Result
DDD	DH 1	0.428	310	31.6	0.133	400	Pass
BDR (GFSK)	DH 3	1.707	190	31.6	0.324	400	Pass
(GI SIC)	DH 5	2.957	120	31.6	0.355	400	Pass
EDR	2DH 1	0.436	320	31.6	0.140	400	Pass
$(\pi/4-$	2DH 3	1.697	170	31.6	0.288	400	Pass
DQPSK)	2DH 5	2.965	120	31.6	0.356	400	Pass
	3DH 1	0.439	320	31.6	0.140	400	Pass
EDR (8-DPSK)	3DH 3	1.697	120	31.6	0.204	400	Pass
(0-DI 3K)	3DH 5	2.973	110	31.6	0.327	400	Pass

Report No.: RSZ180809001-00B

Note 1: (Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) * (period specified in the requirements / analyzer sweep time)

Thus, A period time = 0.4*79=31.6(s), Total of Dwell=Pluse Time*Hopping Number

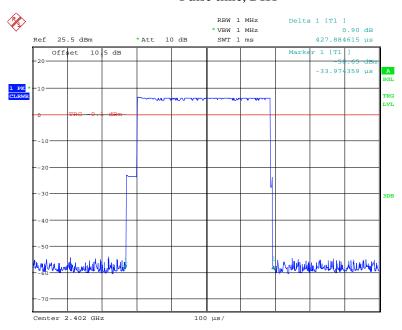
Note 2: Hopping Number (3.16s) = Total of highest signals in 3.16s.(Second high signals were other channel)

Note 3: Hopping Number=Hopping Number (3.16s) *10

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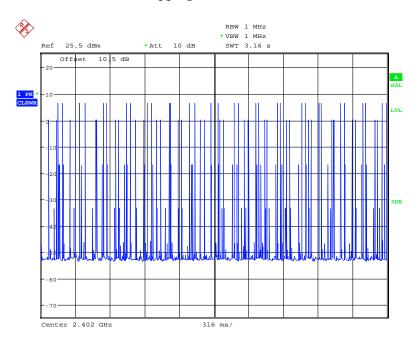
BDR (GFSK): Pulse time, DH1

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 22:47:52

Hopping number in 3.16S, DH1

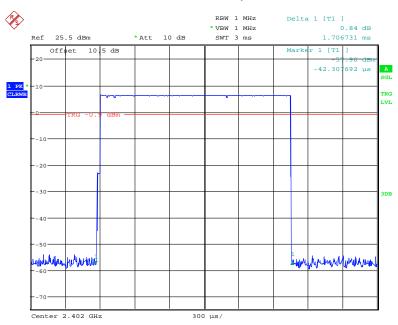


Date: 13.SEP.2018 22:51:11

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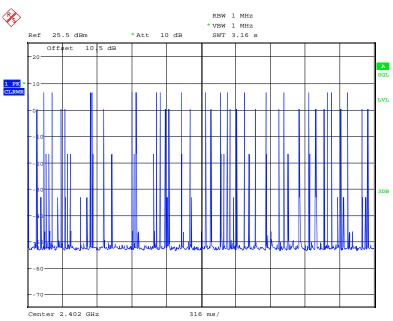
Pulse time, DH3

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 23:00:31

Hopping number in 3.16S, DH3

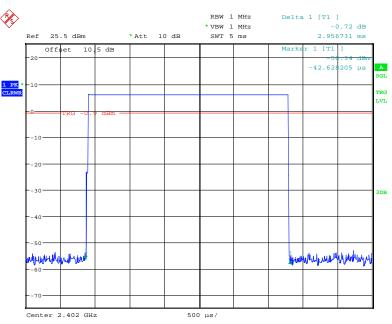


Date: 13.SEP.2018 23:01:43

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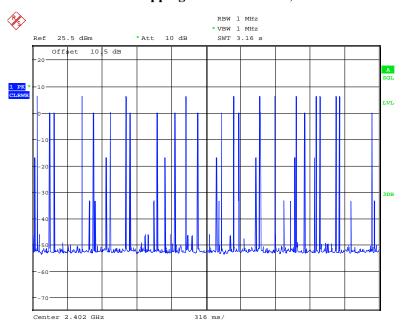
Pulse time, DH5

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 23:07:13

Hopping number in 3.16S, DH5



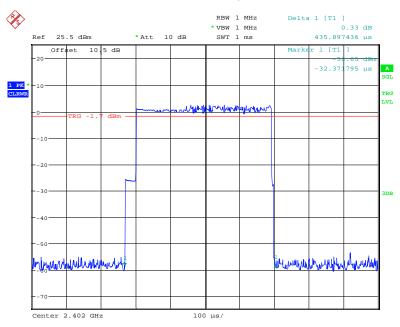
Date: 13.SEP.2018 23:09:15

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

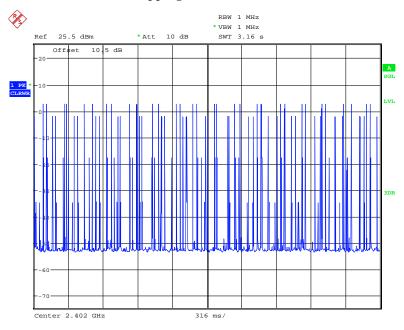
Report No.: RSZ180809001-00B

Pulse time, 2DH1



Date: 13.SEP.2018 22:53:22

Hopping number in 3.16S, 2DH1

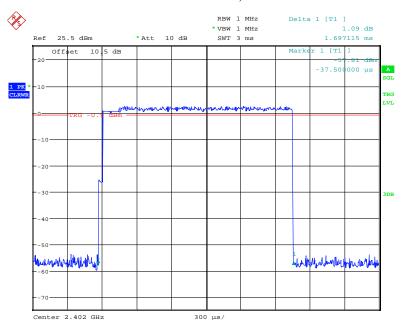


Date: 13.SEP.2018 22:56:45

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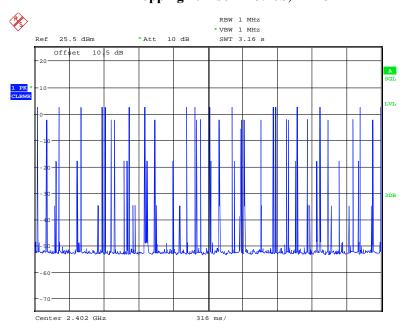
Pulse time, 2DH3

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 23:02:35

Hopping number in 3.16S, 2DH3

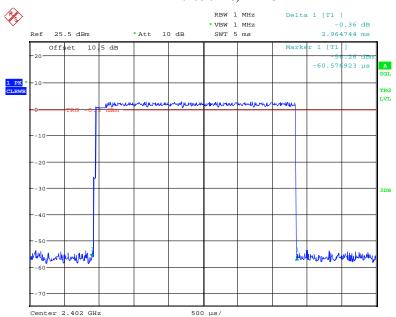


Date: 13.SEP.2018 23:03:52

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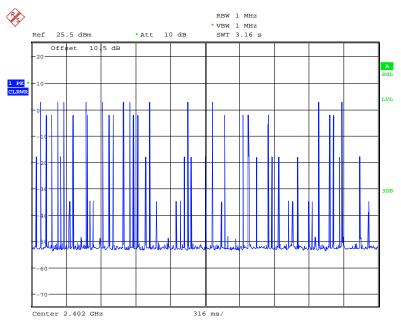
Pulse time, 2DH5

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 23:32:39

Hopping number in 3.16S, 2DH5



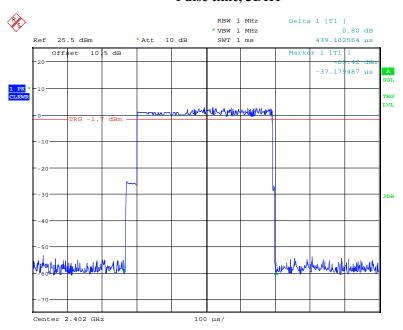
Date: 13.SEP.2018 23:34:03

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EDR (8-DPSK):

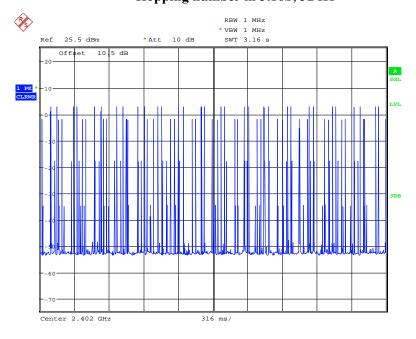
Report No.: RSZ180809001-00B

Pulse time, 3DH1



Date: 13.SEP.2018 22:57:34

Hopping number in 3.16S, 3DH1

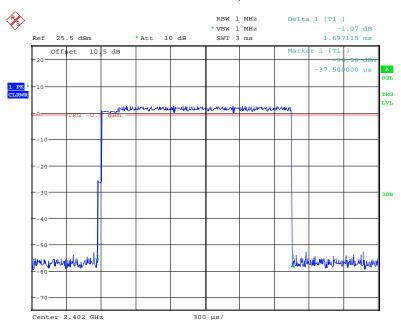


Date: 13.SEP.2018 22:59:15

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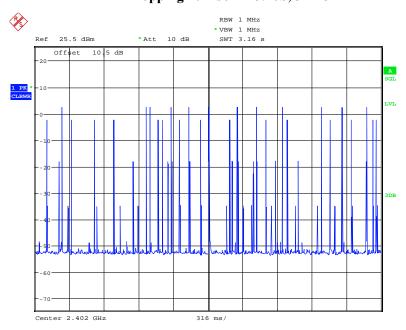
Pulse time, 3DH3

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 23:04:39

Hopping number in 3.16S, 3DH3

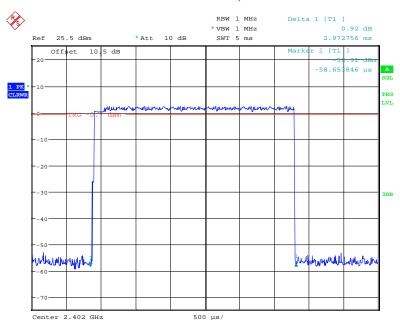


Date: 13.SEP.2018 23:06:17

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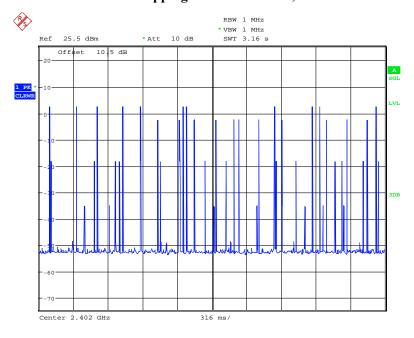
Pulse time, 3DH5

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Date: 13.SEP.2018 23:11:10

Hopping number in 3.16S, 3DH5



Date: 13.SEP.2018 23:17:48

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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. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Report No.: RSZ180809001-00B

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 Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	56 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Shawn Xiao on 2018-09-13.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table.

Mode Channe		Frequency	Peak Output Power		Limit	
Wiode	Chamici	(MHz)	(dBm)	(mW)	(mW)	
	Low	2402	6.73	4.71	125	
BDR (GFSK)	Middle	2441	6.82	4.81	125	
(GI SIL)	High	2480	6.74	4.72	125	
EDR (π/4-DQPSK)	Low	2402	2.79	1.90	125	
	Middle	2441	2.42	1.75	125	
	High	2480	2.17	1.65	125	
EDR (8-DPSK)	Low	2402	3.31	2.14	125	
	Middle	2441	2.95	1.97	125	
	High	2480	2.66	1.85	125	

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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)).

Report No.: RSZ180809001-00B

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. 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 of spectrum analyzer to 100 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 Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Shawn Xiao on 2018-09-13.

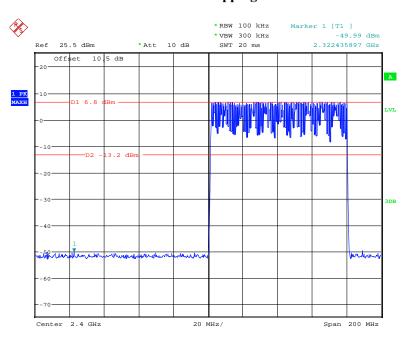
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following plots.

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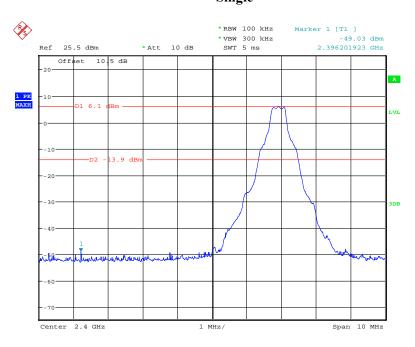
BDR (GFSK): Band Edge-Left Side Hopping

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Date: 13.SEP.2018 22:18:07

Single

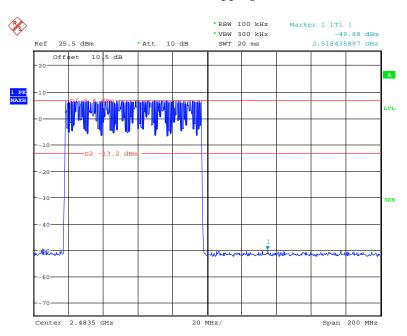


Date: 13.SEP.2018 22:20:41

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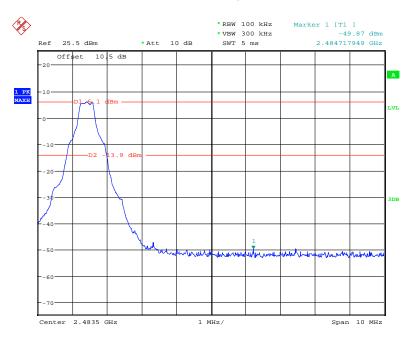
BDR (GFSK): Band Edge-Right Side Hopping

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 22:15:44

Single

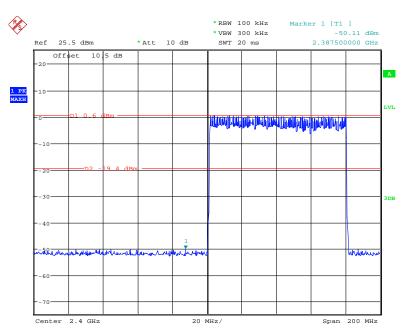


Date: 13.SEP.2018 22:22:51

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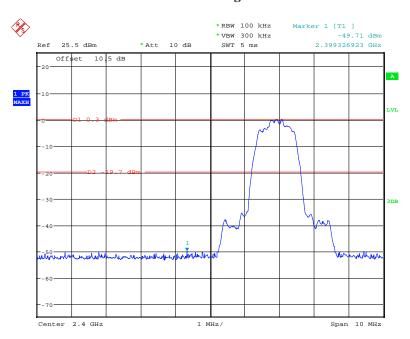
EDR (π /4-DQPSK): Band Edge-Left Side Hopping

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Date: 13.SEP.2018 22:09:41

Single

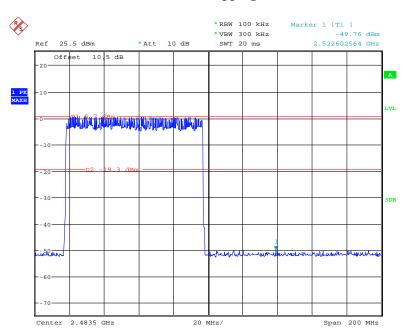


Date: 13.SEP.2018 22:25:11

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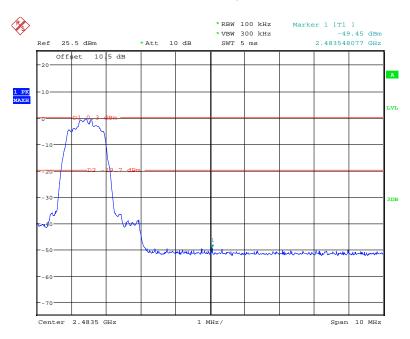
EDR (π/4-DQPSK): Band Edge-Right Side Hopping

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 22:12:12

Single

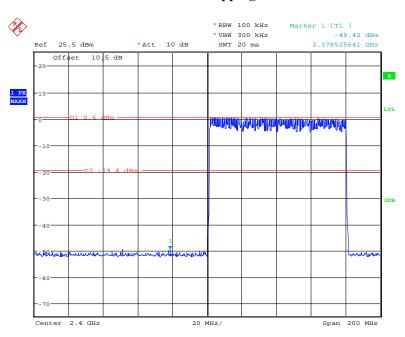


Date: 13.SEP.2018 22:33:32

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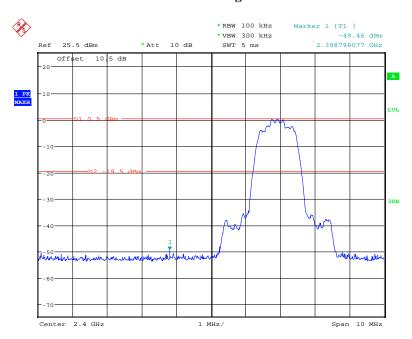
EDR (8-DPSK): Band Edge-Left Side Hopping

Report No.: RSZ180809001-00B



Date: 13.SEP.2018 22:07:10

Single

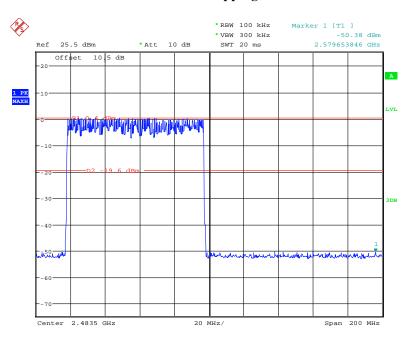


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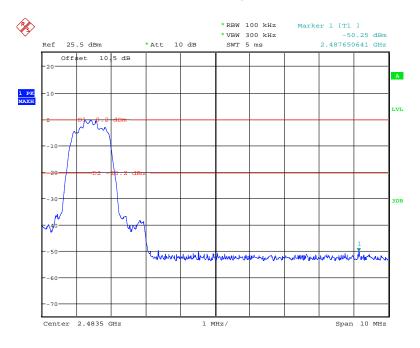
EDR (8-DPSK): Band Edge-Right Side Hopping

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Date: 13.SEP.2018 22:02:10

Single



Date: 13.SEP.2018 22:35:34

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

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