



FCC PART 15.247 TEST REPORT

For

Power Idea Technology (Shenzhen) Co., Ltd.

4th Floor, A Section, Languang Science&technology, Xinxi RD, Hi-Tech Industrial Park North, Nanshan, ShenZhen, China

FCC ID: ZLE-RG850

Report Type: **Product Type:** LTE SMARTPHONE Original Report **Report Number:** RSZ180710006-00B **Report Date:** 2018-09-29 Rocky Kang Rocky Kang Reviewed By: RF Engineer **Prepared By:** Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Power Idea Technology (Shenzhen) Co., Ltd.* 's product, model number: *RG850* (*FCC ID: ZLE-RG850*) or the "EUT" in this report was a *LTE SMARTPHONE*, which was measured approximately: 16.2 cm (L) * 7.9 cm (W) *1.1 cm (H), rated with input voltage: DC 3.83 V battery or DC 5V from adapter.

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White Adapter Information: Model: HKC0115020-2B

Input: AC 100-240V, 50/60Hz, 0.5 A

Output: DC 5V, 2A

Black Adapter Information: Model: HKC0115021-2D

Input: AC 100-240V, 50/60Hz, 0.5 A

Output: DC 5V, 2A

Objective

This test report is prepared on behalf of *Power Idea Technology (Shenzhen) Co., Ltd.* 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 JBP, Part 15.247 DTS and Part 22H&24E&27 PCE submissions with FCC ID: ZLE-RG850.

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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^{*}All measurement and test data in this report was gathered from production sample serial number: 180710006 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2018-07-10.

Measurement Uncertainty

Parameter		Uncertainty	
Occupied Char	nnel Bandwidth	±5%	
RF Output Power	with Power meter	±0.5dB	
RF conducted test with spectrum		±1.5dB	
AC Power Lines Conducted 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

"QRCT.exe" software was made to the EUT tested.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Detail

Manufacturer	Description	Model	Serial Number
/	/	/	/

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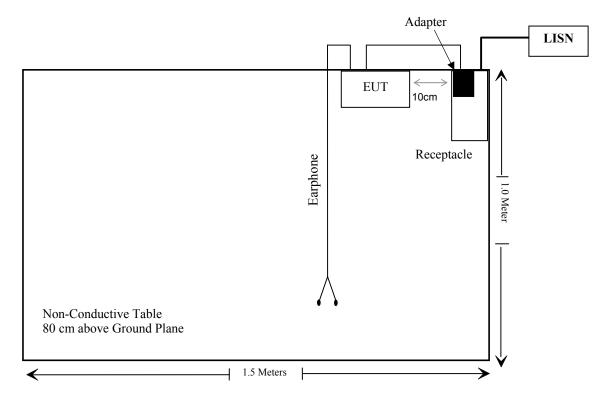
External I/O Cable

Cable Description	Length (m)	From Port	То
Un-shielding Detachable USB Cable	1.0	EUT	Adapter
Un-shielding Detachable Earphone Cable	1.2	EUT	Earphone

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Block Diagram of Test Setup

For conducted emission:



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (1)& §2.1093	RF Exposure	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			
N/A	Conducted Emission Cable	N/A	UF A210B-1- 0720-504504	2018-05-12	2018-11-12			
	Radi	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	2018-08-01	2019-02-01			
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	2018-08-01	2019-02-01			
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) &§2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), 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.

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According to KDB 447498 D01 General RF Exposure Guidance

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

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

For worst case:

Frequency	Maximum pov		Calculated Distance	Distance Calculated Threshold		SAR Test	
(MHz)	(dBm)	(mW)	(mm)	Value	(1-g SAR)	Exclusion	
2480	5.5	3.55	5	1.12	3.0	Yes	

Result: No Standalone SAR test is required

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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 -2.8 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:	52 %
ATM Pressure:	101.0 kPa

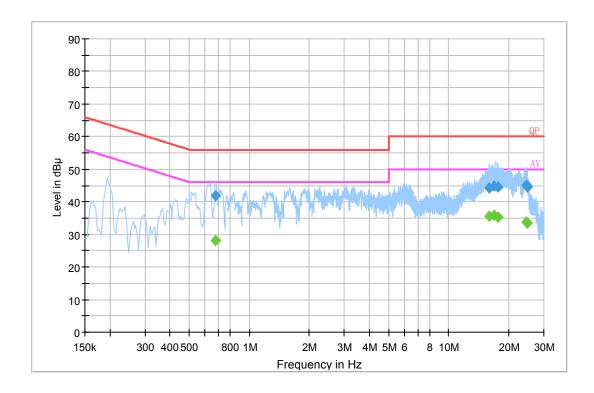
The testing was performed by Nancy Wang on 2018-08-22.

EUT operation mode: Transmitting & charging

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White adapter

AC 120V/60 Hz, Line

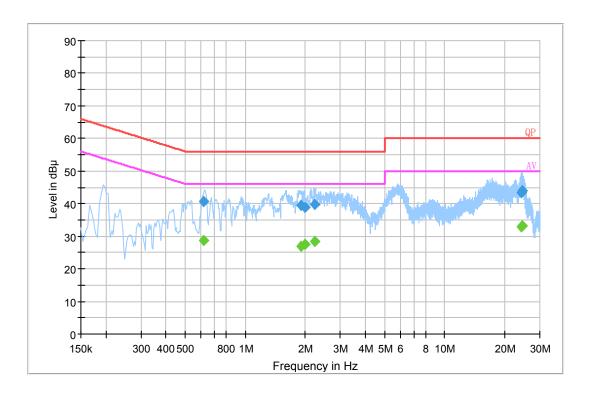


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.675890	41.9	19.7	56.0	14.1	QP
15.961030	44.3	20.2	60.0	15.7	QP
16.997050	44.8	20.2	60.0	15.2	QP
17.620890	44.5	20.2	60.0	15.5	QP
24.446010	45.1	20.4	60.0	14.9	QP
24.644030	44.5	20.4	60.0	15.5	QP
0.675890	28.0	19.7	46.0	18.0	Ave.
15.961030	35.6	20.2	50.0	14.4	Ave.
16.997050	35.8	20.2	50.0	14.2	Ave.
17.620890	35.3	20.2	50.0	14.7	Ave.
24.446010	33.8	20.4	50.0	16.2	Ave.
24.644030	33.4	20.4	50.0	16.6	Ave.

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AC 120V/60 Hz, Neutral



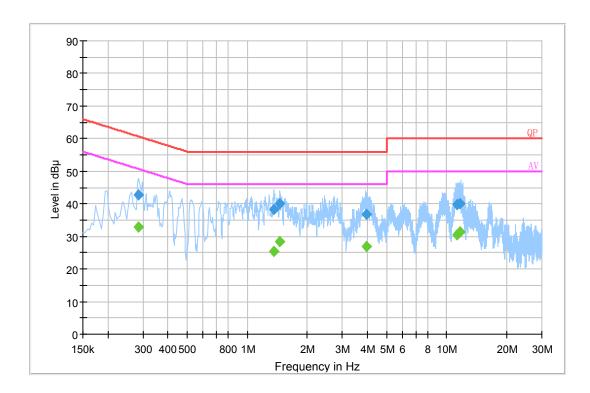
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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.620610	40.5	19.7	56.0	15.5	QP
1.897710	39.6	19.9	56.0	16.4	QP
1.984090	38.8	19.9	56.0	17.2	QP
2.228250	39.7	19.9	56.0	16.3	QP
24.224770	43.3	20.4	60.0	16.7	QP
24.372330	44.0	20.4	60.0	16.0	QP
0.620610	28.7	19.7	46.0	17.3	Ave.
1.897710	27.0	19.9	46.0	19.0	Ave.
1.984090	27.6	19.9	46.0	18.4	Ave.
2.228250	28.4	19.9	46.0	17.6	Ave.
24.224770	32.9	20.4	50.0	17.1	Ave.
24.372330	33.2	20.4	50.0	16.8	Ave.

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Black adapter

AC 120V/60 Hz, Line

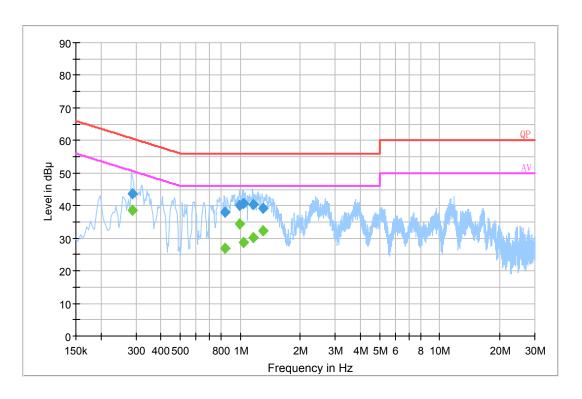


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.285500	42.7	19.8	60.7	18.0	QP
1.353630	38.4	19.8	56.0	17.6	QP
1.460070	40.1	19.8	56.0	15.9	QP
3.966990	36.7	20.0	56.0	19.3	QP
11.266630	39.6	20.2	60.0	20.4	QP
11.641210	40.1	20.2	60.0	19.9	QP
0.285500	33.0	19.8	50.7	17.7	Ave.
1.353630	25.3	19.8	46.0	20.7	Ave.
1.460070	28.3	19.8	46.0	17.7	Ave.
3.966990	26.9	20.0	46.0	19.1	Ave.
11.266630	30.5	20.2	50.0	19.5	Ave.
11.641210	31.3	20.2	50.0	18.7	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)
0.289500	43.6	19.8	60.5	16.9	QP
0.842450	37.9	19.7	56.0	18.1	QP
0.991030	40.1	19.8	56.0	15.9	QP
1.038430	40.6	19.8	56.0	15.4	QP
1.164690	40.3	19.7	56.0	15.7	QP
1.298650	39.3	19.8	56.0	16.7	QP
0.289500	38.5	19.8	50.5	12.0	Ave.
0.842450	26.9	19.7	46.0	19.1	Ave.
0.991030	34.5	19.8	46.0	11.5	Ave.
1.038430	28.7	19.8	46.0	17.3	Ave.
1.164690	30.2	19.7	46.0	15.8	Ave.
1.298650	32.2	19.8	46.0	13.8	Ave.

Note:

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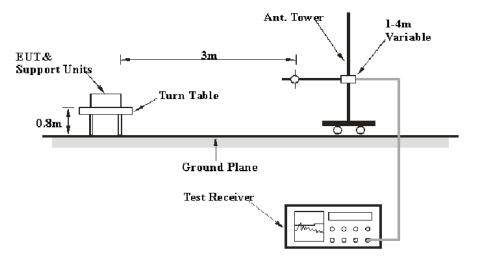
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

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	30 MHz – 1000 MHz 100 kHz		120 kHz	QP
Above 1 CHz	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:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Nancy Wang on 2018-09-19.

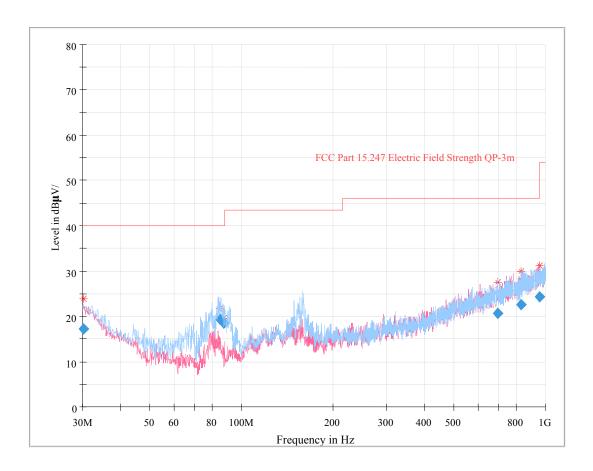
EUT operation mode: Transmitting (Scan with GFSK, $\pi/4$ -DQPSK, 8-DPSK mode, the worst case is 8-DPSK Mode)

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White adapter

30 MHz~1 GHz: (the worst case is 8-DPSK Mode, middle channel)



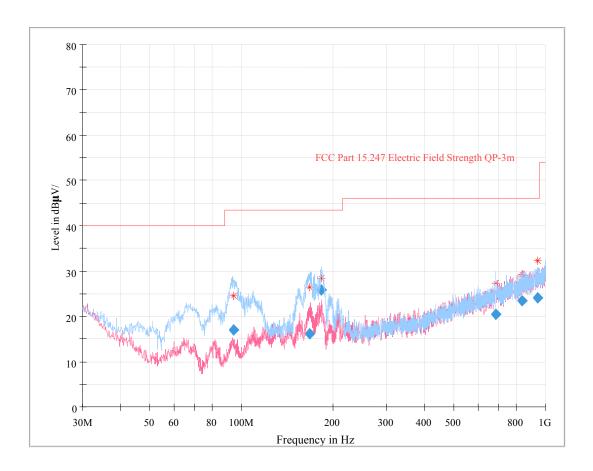
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Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
30.188782	17.23	324.0	Н	169.0	-4.8	40.00	22.77
84.748500	19.33	394.0	Н	63.0	-16.2	40.00	20.67
87.328875	18.57	400.0	Н	234.0	-16.0	40.00	21.43
694.441125	20.70	229.0	Н	112.0	-1.8	46.00	25.30
833.375375	22.59	163.0	Н	280.0	0.0	46.00	23.41
959.288375	24.30	297.0	V	96.0	2.4	46.00	21.70

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Black adapter

30 MHz~1 GHz: (the worst case is 8-DPSK Mode, High 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)
93.998250	16.89	256.0	Н	76.0	-14.9	43.50	26.61
167.995750	16.20	140.0	Н	237.0	-11.5	43.50	27.30
183.104125	25.78	135.0	Н	220.0	-12.1	43.50	17.72
684.691000	20.43	319.0	Н	72.0	-2.2	46.00	25.57
835.286250	23.49	106.0	V	314.0	0.1	46.00	22.51
945.132750	24.05	226.0	Н	129.0	1.9	46.00	21.95

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1 GHz - 25 GHz:

Receiver		Rx Ant		itenna	Corrected	Corrected	~ · · ·		
Frequency (MHz)	Reading (dBµV)	PK/QP/Ave.	Turntable Degree	Height (m)		Factor (dB/m)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low Ch	annel (2	2402 M	Hz)			
2402.00	60.32	PK	322	1.8	Н	33.00	93.32	/	/
2402.00	49.37	Ave.	322	1.8	Н	33.00	82.37	/	/
2402.00	62.81	PK	250	1.1	V	33.00	95.81	/	/
2402.00	51.39	Ave.	250	1.1	V	33.00	84.39	/	/
2316.32	28.13	PK	294	1.6	V	32.97	61.10	74	12.90
2316.32	13.54	Ave.	294	1.6	V	32.97	46.51	54	7.49
2484.27	30.81	PK	346	1.3	V	33.20	64.01	74	9.99
2484.27	13.62	Ave.	346	1.3	V	33.20	46.82	54	7.18
4804.00	43.92	PK	48	1.5	V	7.88	51.80	74	22.20
4804.00	27.58	Ave.	48	1.5	V	7.88	35.46	54	18.54
	Middle Channel (2441 MHz)								
2441.00	60.11	PK	215	1.1	Н	33.10	93.21	/	/
2441.00	49.37	Ave.	215	1.1	Н	33.10	82.47	/	/
2441.00	63.24	PK	269	1.5	V	33.10	96.34	/	/
2441.00	52.19	Ave.	269	1.5	V	33.10	85.29	/	/
4882.00	42.82	PK	228	1.9	V	9.21	52.03	74	21.97
4882.00	27.21	Ave.	228	1.9	V	9.21	36.42	54	17.58
			High Ch	annel (2	2480 M	Hz)			
2480.00	59.34	PK	113	1.9	Н	33.20	92.54	/	/
2480.00	48.37	Ave.	113	1.9	Н	33.20	81.57	/	/
2480.00	61.24	PK	211	1.4	V	33.20	94.44	/	/
2480.00	49.83	Ave.	211	1.4	V	33.20	83.03	/	/
2314.53	26.36	PK	305	2.3	V	32.97	59.33	74	14.67
2314.53	13.24	Ave.	305	2.3	V	32.97	46.21	54	7.79
2489.27	26.07	PK	118	1.6	V	33.20	59.27	74	14.73
2489.27	13.11	Ave.	118	1.6	V	33.20	46.31	54	7.69
4960.00	43.35	PK	45	1.7	V	9.07	52.42	74	21.58
4960.00	27.62	Ave.	45	1.7	V	9.07	36.69	54	17.31

Report No.: RSZ180710006-00B

Note:

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

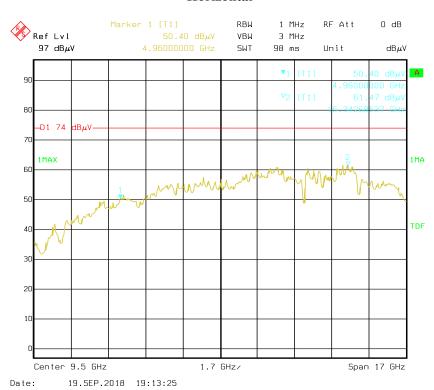
Margin = Limit - Corrected. Amplitude

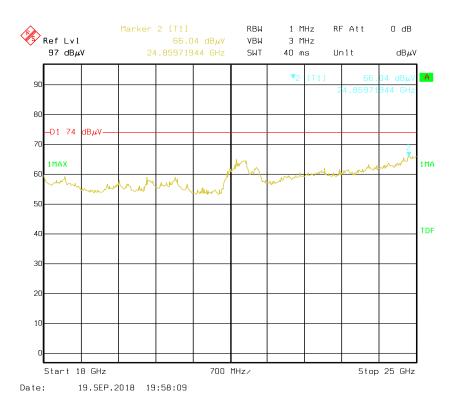
The other spurious emission which is 20dB to the limit was not recorded. And for the pre-scan is performed with the 2400-2483.5MHz band filter.

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Pre-scan with High channel Peak Horizontal

Report No.: RSZ180710006-00B

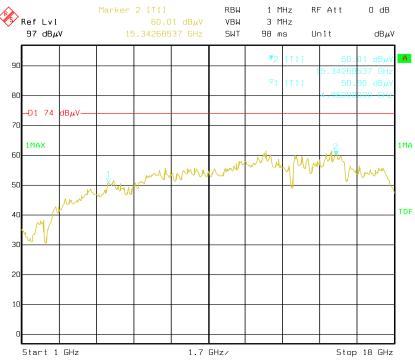




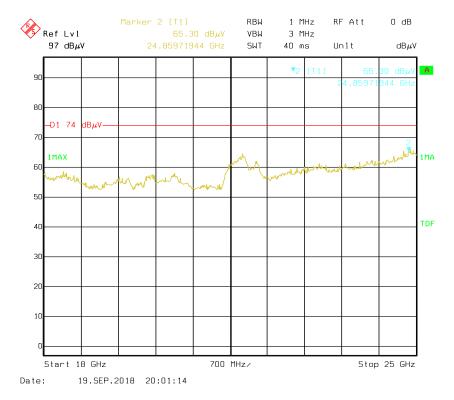
FCC Part 15.247 Page 25 of 68

Vertical

Report No.: RSZ180710006-00B



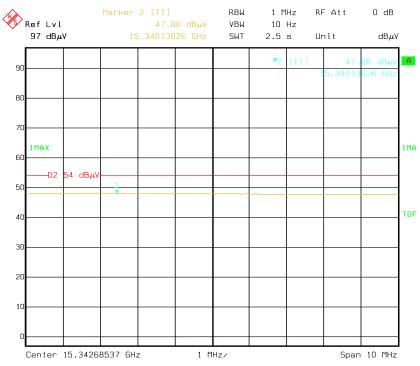




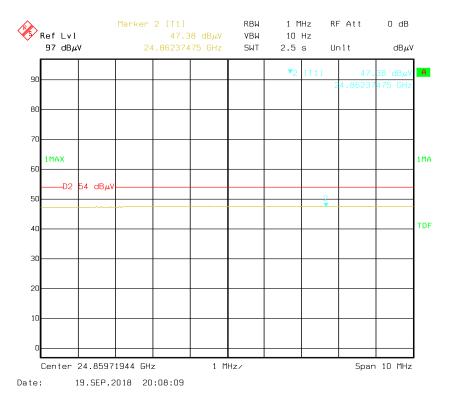
FCC Part 15.247 Page 26 of 68

Pre-scan for Average Horizontal

Report No.: RSZ180710006-00B



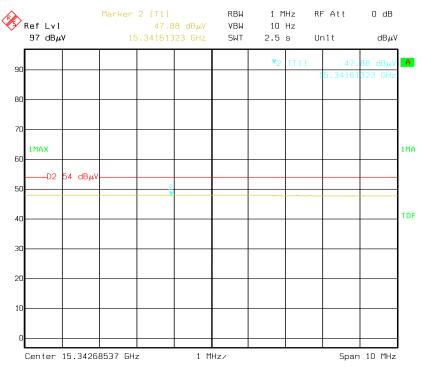
Date: 19.SEP.2018 19:17:09



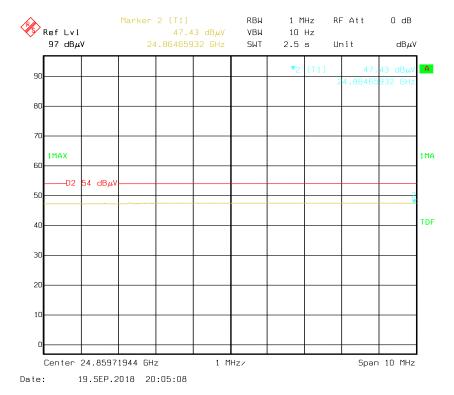
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Vertical

Report No.: RSZ180710006-00B







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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.

Report No.: RSZ180710006-00B

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Nancy Wang on 2018-08-07.

EUT operation mode: Transmitting

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

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Mode	Channel	Frequency (MHz)	Channel Separation (MHz)	≥Limit (MHz)	Result
	Low	2402	1.000	0.583	Pass
	Adjacent	2403	1.000	0.363	
BDR	Middle	2441	1.000	0.580	Pass
(GFSK)	Adjacent	2442	1.000	0.380	Pass
	High	2480	1.000	0.500	D
	Adjacent	2479	1.000	0.580	Pass
	Low	2402	1.000	0.875	Pass
	Adjacent	2403	1.000		
EDR	Middle	2441	1.000	0.872	Pass
(π/4-DQPSK)	Adjacent	2442	1.000		
	High	2480	1.000	0.875	Pass
	Adjacent	2479	1.000		
	Low	2402	1.000	0.843	Pass
EDR (8DPSK)	Adjacent	2403	1.000		
	Middle	2441	1,000	0.846	Pass
	Adjacent	2442	1.000		
	High	2480	1,000	0.849	Pass
	Adjacent	2479	1.000		

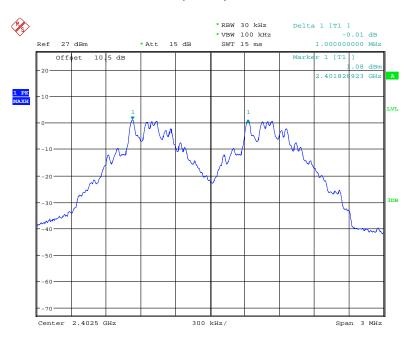
Report No.: RSZ180710006-00B

Note: Limit = 20 dB bandwidth *2/3

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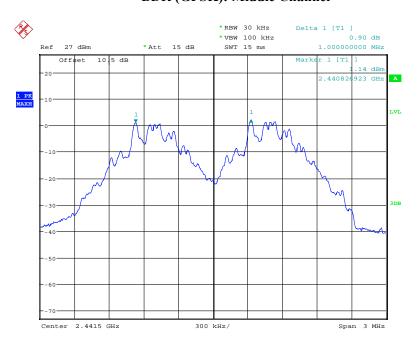
BDR (GFSK): Low Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:40:20

BDR (GFSK): Middle Channel

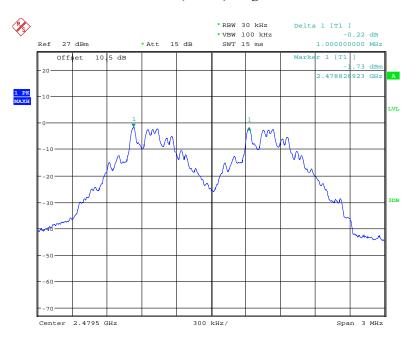


Date: 7.AUG.2018 10:41:09

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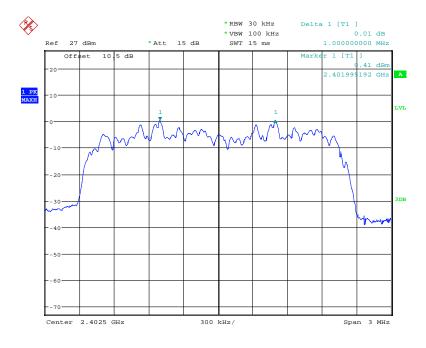
BDR (GFSK): High Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:42:38

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

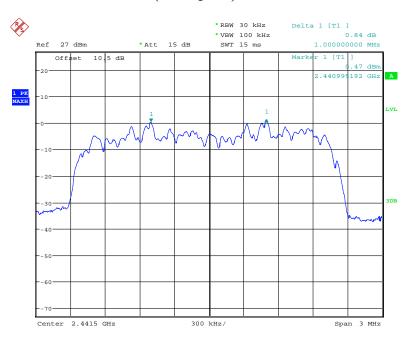


Date: 7.AUG.2018 10:44:20

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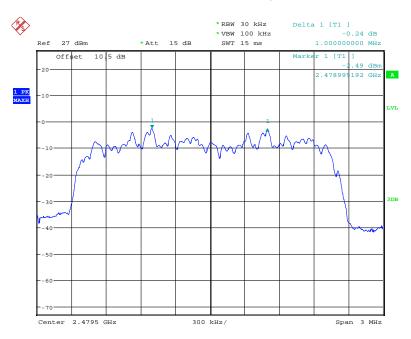
EDR ($\pi/4$ -DQPSK): Middle Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:45:56

EDR (π/4-DQPSK): High Channel

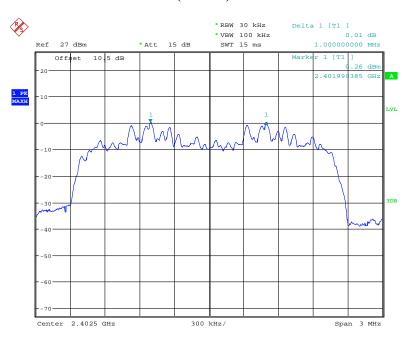


Date: 7.AUG.2018 10:46:47

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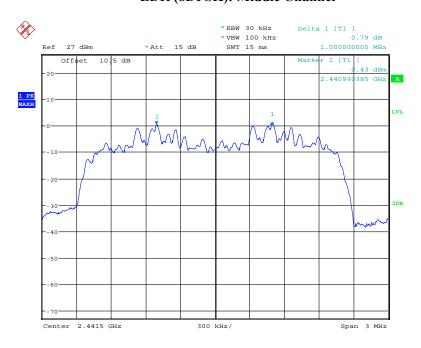
EDR (8DPSK): Low Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:47:36

EDR (8DPSK): Middle Channel

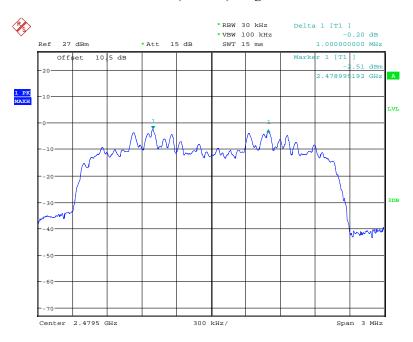


Date: 7.AUG.2018 10:48:18

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EDR (8DPSK): High Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:49:22

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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.: RSZ180710006-00B

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:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Nancy Wang on 2018-08-07 and 2018-08-09.

EUT operation mode: Transmitting

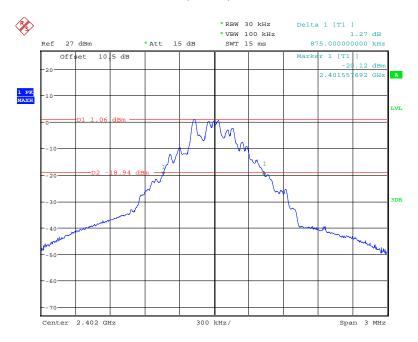
Test Result: Compliance. Please refer to following table and plots.

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Mode	ode Channel Frequency (MHz)		20 dB Emission Bandwidth (MHz)	
BDR (GFSK)	Low	2402	0.875	
	Middle	2441	0.870	
	High	2480	0.870	
EDR (π/4-DQPSK)	Low	2402	1.313	
	Middle	2441	1.308	
	High	2480	1.313	
EDR (8DPSK)	Low	2402	1.264	
	Middle	2441	1.269	
	High	2480	1.274	

Report No.: RSZ180710006-00B

BDR (GFSK): Low Channel

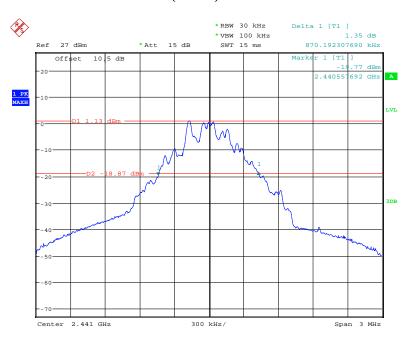


Date: 7.AUG.2018 09:50:40

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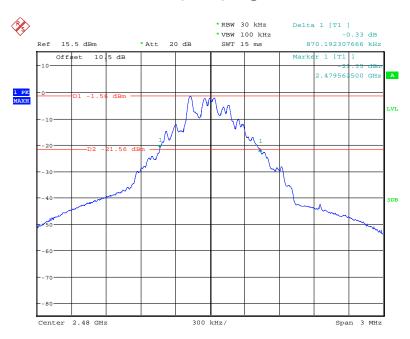
BDR (GFSK): Middle Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 09:49:02

BDR (GFSK): High Channel

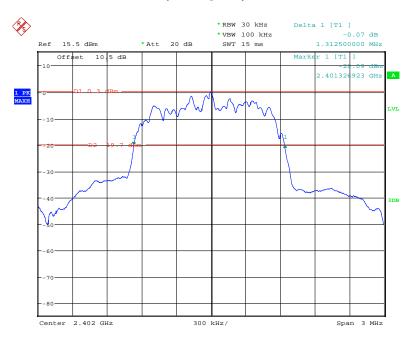


Date: 7.AUG.2018 22:03:29

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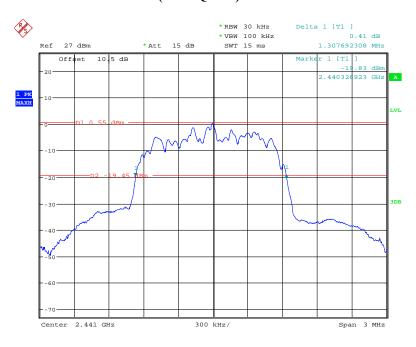
EDR ($\pi/4$ -DQPSK): Low Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 22:11:46

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

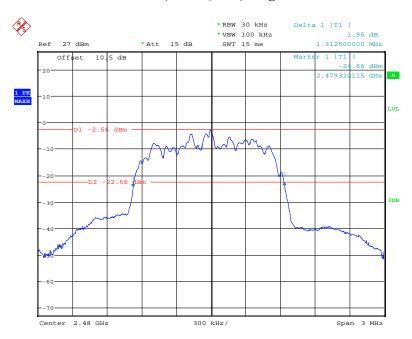


Date: 7.AUG.2018 09:55:07

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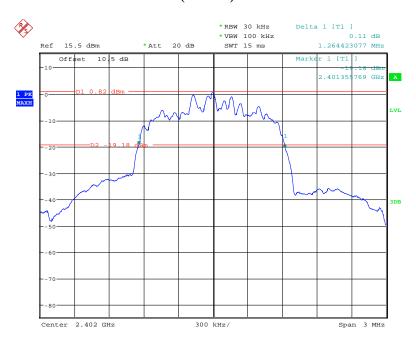
EDR ($\pi/4$ -DQPSK): High Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 09:53:36

EDR (8DPSK): Low Channel

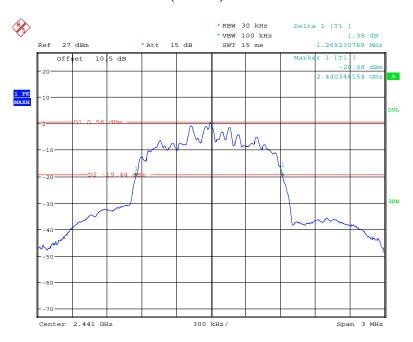


Date: 7.AUG.2018 22:16:11

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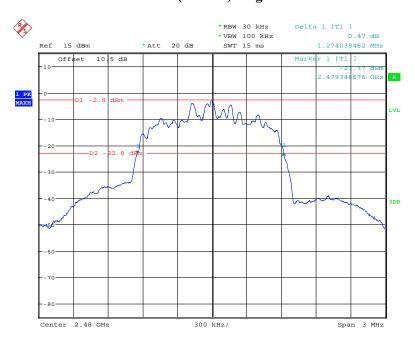
EDR (8DPSK): Middle Channel

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:01:33

EDR (8DPSK): High Channel



Date: 9.AUG.2018 11:31:01

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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.: RSZ180710006-00B

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:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Nancy Wang on 2018-08-07.

EUT operation mode: Transmitting

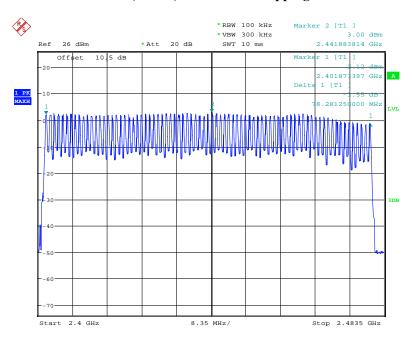
Test Result: Compliance. Please refer to following table and plots.

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 (8DPSK)	2400-2483.5	79	≥15

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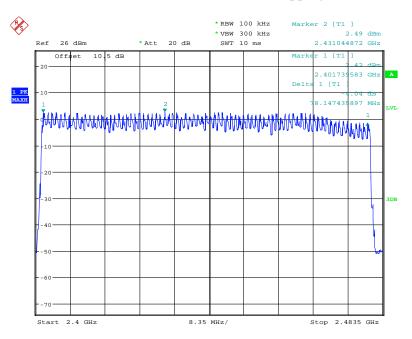
BDR (GFSK): Number of Hopping Channels

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 18:26:10

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

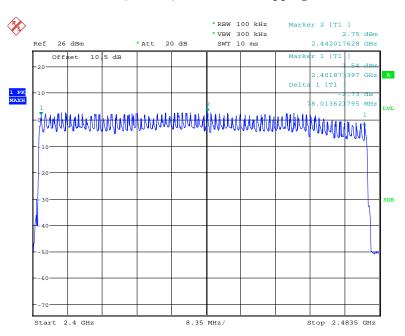


Date: 7.AUG.2018 18:31:38

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EDR (8DPSK): Number of Hopping Channels

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 18:35:47

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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.: RSZ180710006-00B

Test Procedure

- 1. The EUT was worked in channel hopping.
- 2. Set the RBW to: 1MHz.
- 3. Set the VBW $> 3 \times RBW$.
- 4. Set the span to 0Hz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Recorded the time of single pulses

Test Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Nancy Wang on 2018-08-07.

EUT operation mode: Transmitting

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

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Mod	e	Channel	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Result	
		Low	0.418	0.134	0.4	Pass	
	DII 1	Middle	0.426	0.136	0.4	Pass	
	DH 1	High	0.421	0.135	0.4	Pass	
		Note: DH1:Dwell time = Pulse time*(1600/2/79)*31.6S					
		Low	1.736	0.278	0.4	Pass	
BDR	DH 2	Middle	1.702	0.272	0.4	Pass	
(GFSK)	DH 3	High	1.688	0.270	0.4	Pass	
		Note:	DH3:Dwell time = F	Pulse time*(1600/	4/79)*31.6S		
		Low	2.948	0.314	0.4	Pass	
	DII 6	Middle	2.948	0.314	0.4	Pass	
	DH 5	High	2.967	0.316	0.4	Pass	
		Note:	DH5:Dwell time = P	Pulse time*(1600/	6/79)*31.6S		
		Low	0.417	0.133	0.4	Pass	
	2D11.1	Middle	0.413	0.132	0.4	Pass	
	2DH 1	High	0.425	0.136	0.4	Pass	
		Note: 2DH1:Dwell time = Pulse time*(1600/2/79)*31.6S					
	2DH 3	Low	1.709	0.273	0.4	Pass	
EDR		Middle	1.683	0.269	0.4	Pass	
$(\pi/4\text{-DQPSK})$		High	1.683	0.269	0.4	Pass	
		Note: 2DH3:Dwell time = Pulse time*(1600/4/79)*31.6S					
	2DH 5	Low	2.936	0.313	0.4	Pass	
		Middle	2.936	0.313	0.4	Pass	
		High	2.968	0.317	0.4	Pass	
		Note:2DH5:Dwell time = Pulse time*(1600/6/79)*31.6S					
	3DH 1	Low	0.421	0.135	0.4	Pass	
EDR (8DPSK)		Middle	0.421	0.135	0.4	Pass	
		High	0.417	0.133	0.4	Pass	
		Note: 3DH1:Dwell time = Pulse time*(1600/2/79)*31.6S					
	3DH 3	Low	1.692	0.271	0.4	Pass	
		Middle	1.688	0.270	0.4	Pass	
		High	1.683	0.269	0.4	Pass	
		Note: 3DH3:Dwell time = Pulse time*(1600/4/79)*31.6S					
	3DH 5	Low	2.942	0.314	0.4	Pass	
		Middle	2.936	0.313	0.4	Pass	
		High	2.942	0.314	0.4	Pass	
		Note: 3	BDH5:Dwell time = 1	Pulse time*(1600)	/6/79)*31.6S		

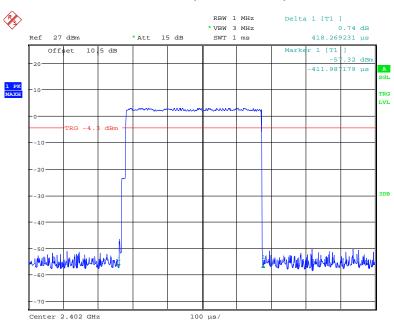
Report No.: RSZ180710006-00B

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BDR (GFSK):

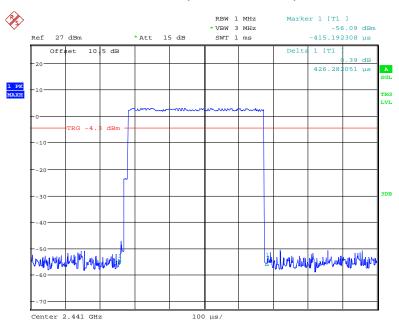
Report No.: RSZ180710006-00B

Pulse time, Low Channel, DH1



Date: 7.AUG.2018 10:54:51

Pulse time, Middle Channel, DH1

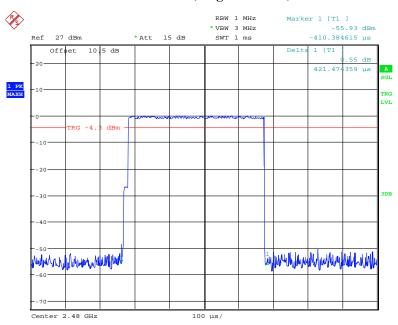


Date: 7.AUG.2018 10:56:01

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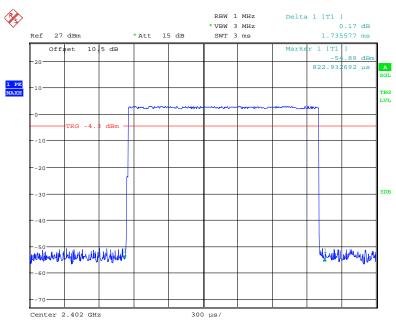
Pulse time, High Channel, DH1

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:57:29

Pulse time, Low Channel, DH3

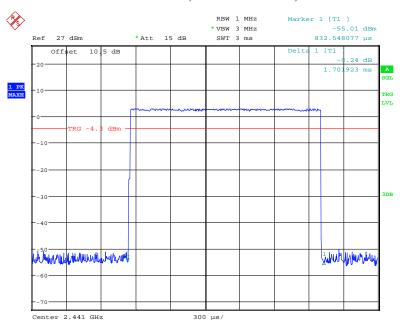


Date: 7.AUG.2018 11:04:59

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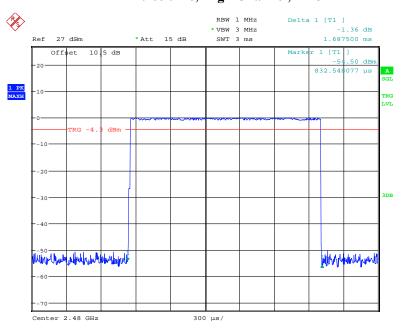
Pulse time, Middle Channel, DH3

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:05:26

Pulse time, High Channel, DH3

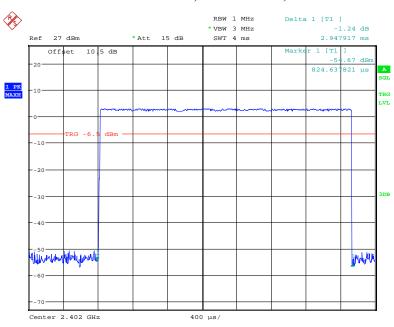


Date: 7.AUG.2018 11:05:55

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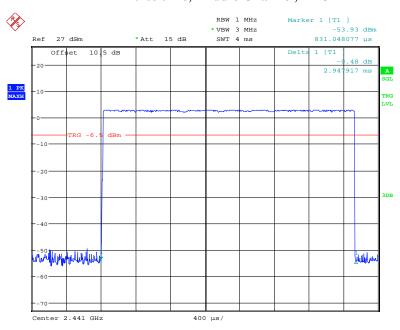
Pulse time, Low Channel, DH5

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:20:21

Pulse time, Middle Channel, DH5

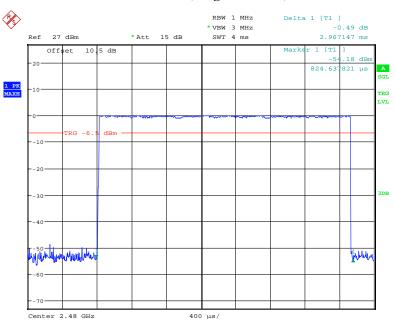


Date: 7.AUG.2018 11:20:55

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Pulse time, High Channel, DH5

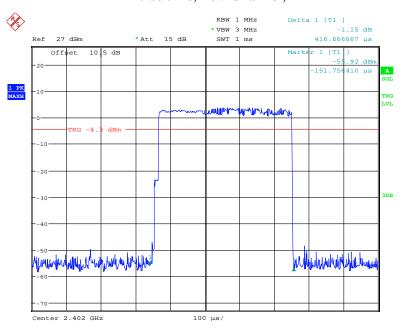
Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:21:22

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

Pulse time, Low Channel, 2DH1

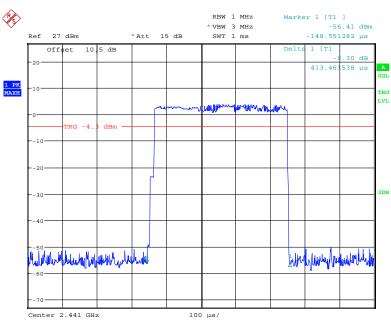


Date: 7.AUG.2018 10:58:33

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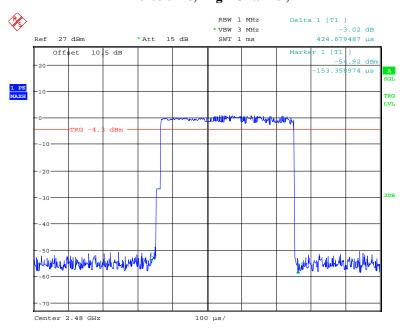
Pulse time, Middle Channel, 2DH1

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:59:06

Pulse time, High Channel, 2DH1

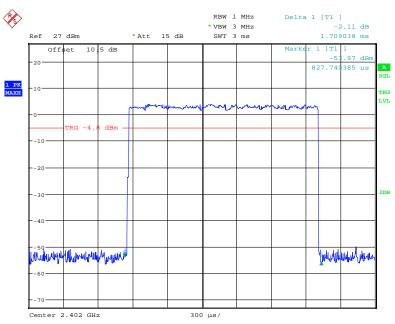


Date: 7.AUG.2018 10:59:41

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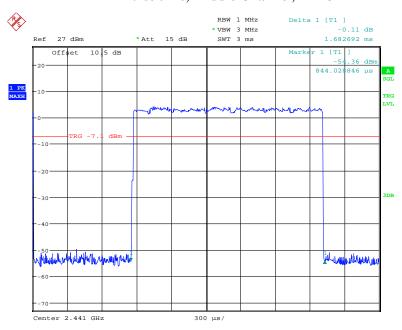
Pulse time, Low Channel, 2DH3

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:07:37

Pulse time, Middle Channel, 2DH3

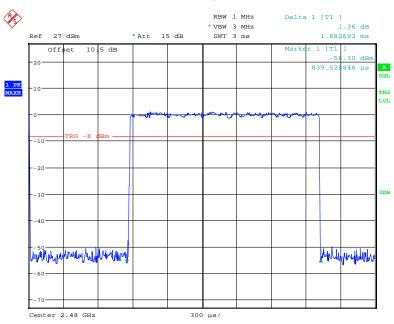


Date: 7.AUG.2018 11:10:20

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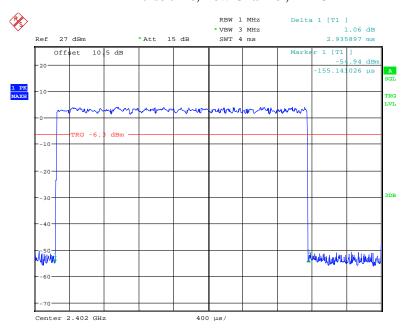
Pulse time, High Channel, 2DH3

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:11:37

Pulse time, Low Channel, 2DH5

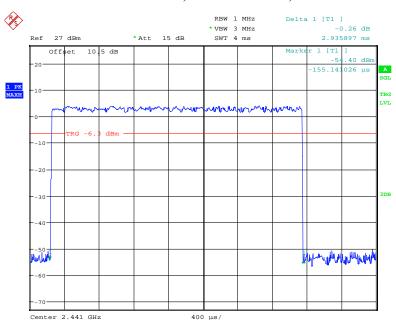


Date: 7.AUG.2018 11:24:10

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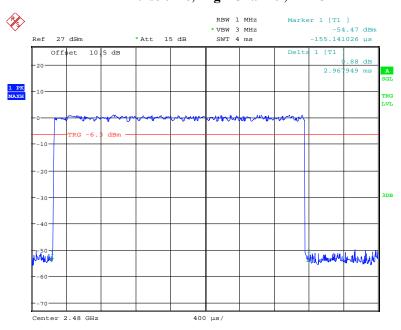
Pulse time, Middle Channel, 2DH5

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:24:41

Pulse time, High Channel, 2DH5

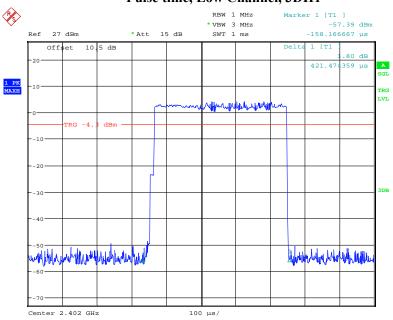


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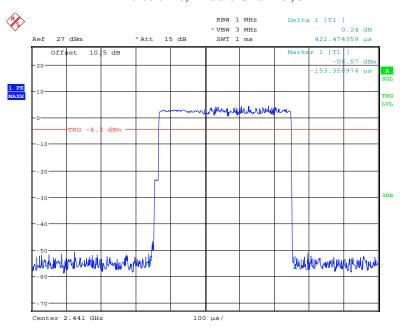
EDR (8DPSK): Pulse time, Low Channel, 3DH1

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:00:22

Pulse time, Middle Channel, 3DH1

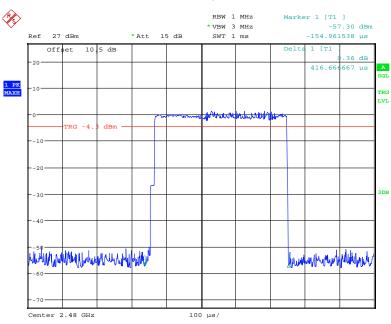


Date: 7.AUG.2018 11:01:29

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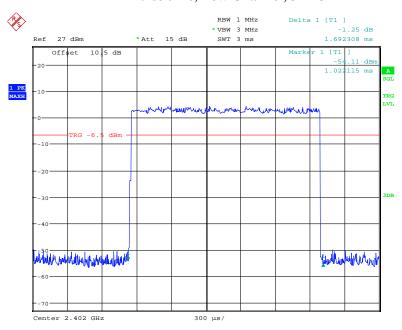
Pulse time, High Channel, 3DH1

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:02:12

Pulse time, Low Channel, 3DH3

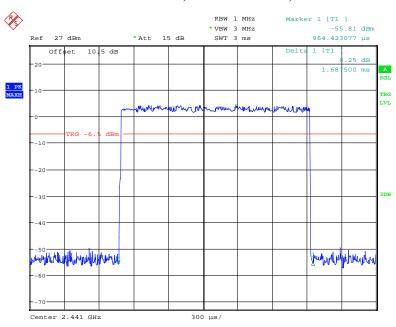


Date: 7.AUG.2018 11:16:57

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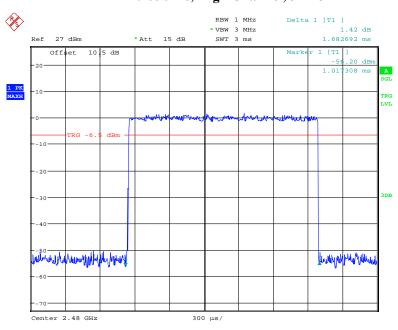
Pulse time, Middle Channel, 3DH3

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:18:01

Pulse time, High Channel, 3DH3

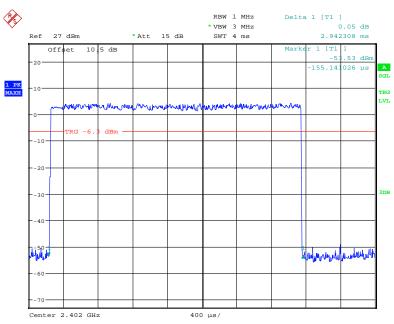


Date: 7.AUG.2018 11:18:33

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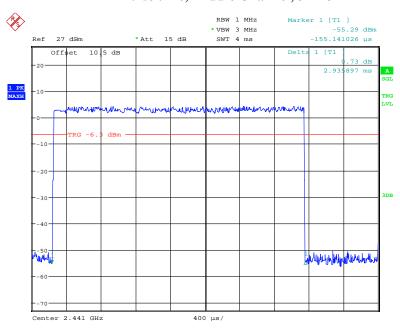
Pulse time, Low Channel, 3DH5

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:26:38

Pulse time, Middle Channel, 3DH5

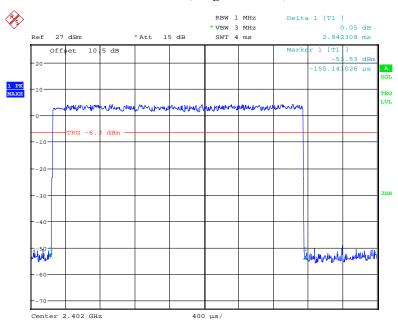


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Pulse time, High Channel, 3DH5

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 11:26:38

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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.: RSZ180710006-00B

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:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Nancy Wang on 2018-08-07.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table.

Mode	Channel	Frequency (MHz)	Peak Output Power		Limit
			(dBm)	(mW)	(mW)
	Low	2402	3.04	2.014	125
BDR (GFSK)	Middle	2441	3.09	2.037	125
(32,323)	High	2480	0.04	1.009	125
EDR (π/4-DQPSK)	Low	2402	4.46	2.793	125
	Middle	2441	4.56	2.858	125
	High	2480	1.52	1.419	125
	MAX	2431	4.61	2.891	125
EDR (8DPSK)	Low	2402	4.81	3.027	125
	Middle	2441	4.94	3.119	125
	High	2480	1.52	1.419	125
	MAX	2442	5.36	3.436	125

Note: The data above was tested in conducted mode.

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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.: RSZ180710006-00B

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:	52 %	
ATM Pressure:	101.0 kPa	

The testing was performed by Nancy Wang on 2018-08-07.

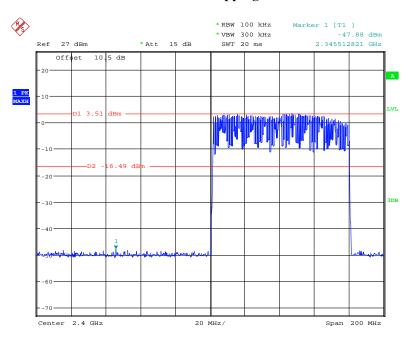
EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following plots.

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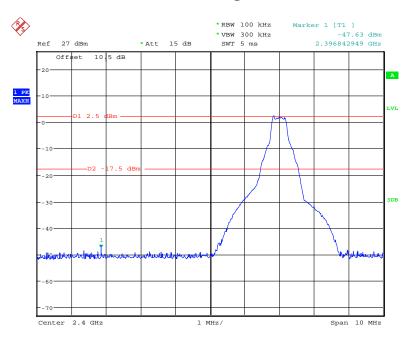
BDR (GFSK): Band Edge-Left Side Hopping

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:31:25

Single

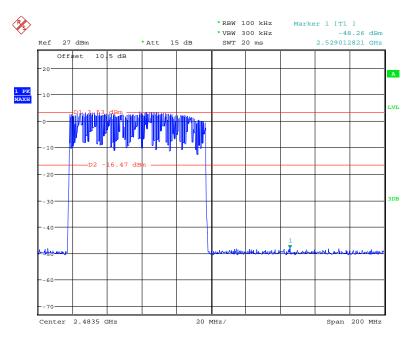


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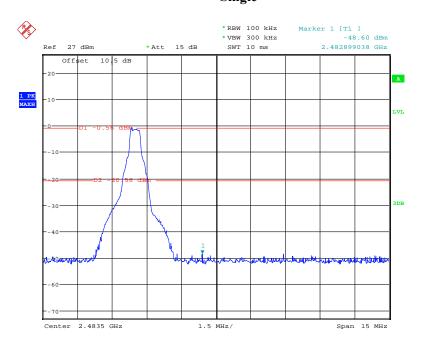
BDR (GFSK): Band Edge-Right Side Hopping

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:28:58

Single

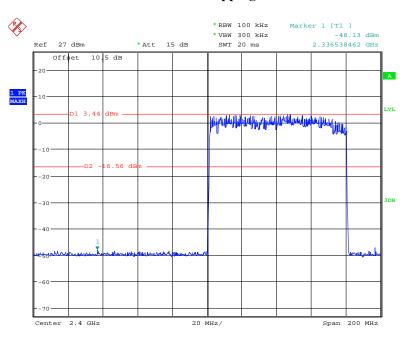


Date: 7.AUG.2018 10:25:39

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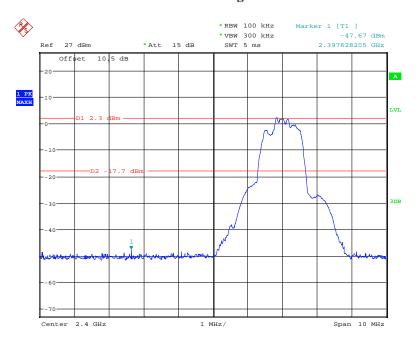
EDR (π /4-DQPSK): Band Edge-Left Side Hopping

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:19:18

Single

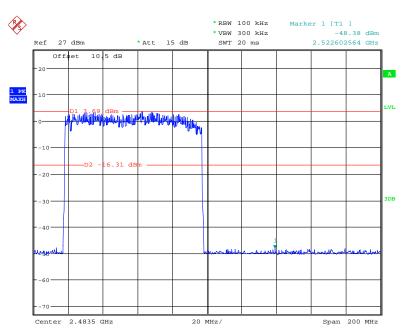


Date: 7.AUG.2018 10:14:31

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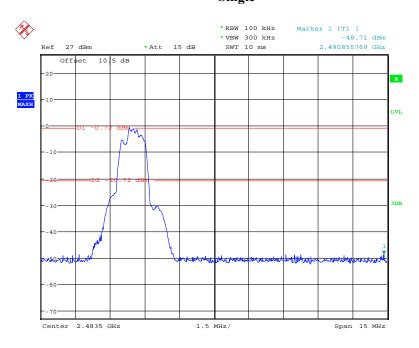
EDR (π /4-DQPSK): Band Edge-Right Side Hopping

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:23:39

Single

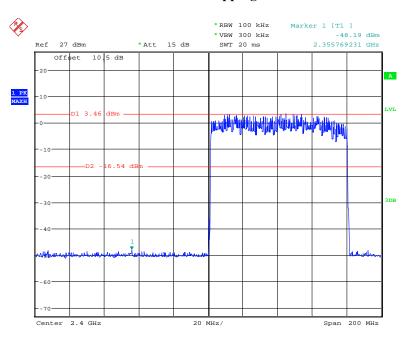


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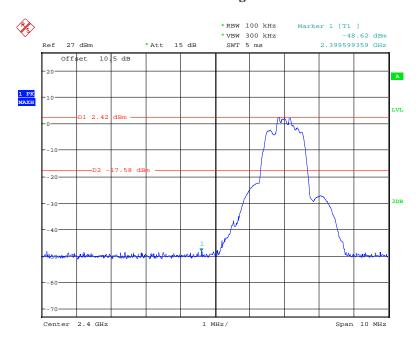
EDR (8DPSK): Band Edge-Left Side Hopping

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:08:51

Single

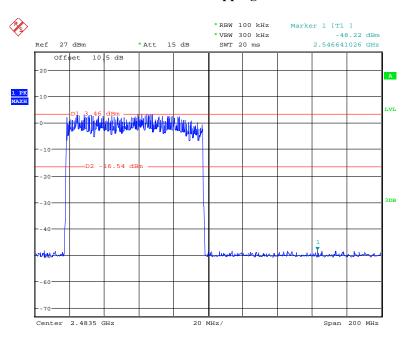


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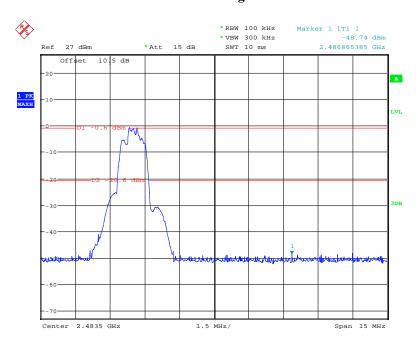
EDR (8DPSK): Band Edge-Right Side Hopping

Report No.: RSZ180710006-00B



Date: 7.AUG.2018 10:06:49

Single



Date: 7.AUG.2018 10:04:54

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

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