



TEST REPORT

EUT Description	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card, LTE Coexistence
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Brand Name Intel® Wi-Fi 6 AX201

Model Name AX201D2WL

FCC ID PD9AX201D2L ISED ID 1000M-AX201D2L

Date of Test Start/End 2018-10-10 / 2018-11-06

Features 802.11ax, Dual Band, 2x2 Wi-Fi + Bluetooth® 5

(see section 5)

Applicant Intel Mobile Communications

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	FCC CFR Title 47 Part 15 C
Deference Ctondorde	DCC 247 inque 2 DCC Con inqui

Reference Standards RSS-247 issue 2, RSS-Gen issue 5 (see section 1)

Rev. 00

Revision Control This test report revision replaces any previous test report revision

(see section 8)

180717-04.TR05

The test results relate only to the samples tested.

Test Report identification

The test report shall not be reproduced in full, without written approval of the laboratory.

Issued by Reviewed by

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1. Standards, reference documents and applicable test methods

- 1. FCC 47 CFR part 15 Subpart C §15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.
- 2. FCC 47 CFR part 15 Subpart C §15.209 Radiated emission limits; general requirements.
- 3. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
- 4. DA 00-705 Released March 30, 2000 Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems
- RSS-247 Issue 2 Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
- 6. RSS-Gen Issue 5 General Requirements for Compliance of Radio Apparatus.

2. General conditions, competences and guarantees

- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an ISO/IEC 17025:2005 testing laboratory accredited by the American Association for Laboratory Accreditation (A2LA) with the certificate number 3478.01.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by ISED, with ISED Assigned Code 1000Y.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- This report does not imply an approval of the product by the Certification Bodies or competent Authorities.

3. Environmental Conditions

✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	23 °C ±2 °C		
Humidity	58 % ± 10 %		

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
	180717-04.S06	RF MODULE	AX201D2WL	WFM: 3413E8CA8DC0	2018-10-02	
#1	180522-02.S03	EXTENDER	PCB00651_01	6510818-190	2018-05-31	Used for conducted
#1	180000-01.S01	ADAPTER	JFP ADAPTER M2	-	2017-08-09	tests
	170000-01.S04	LAPTOP	LATITUDE E5470	DMRKMC2	2017-05-10	
	180717-04.S07	RF MODULE	AX201D2WL	WFM:3413E8CA8E92	2018-10-02	
#2	180326-01.S03	EXTENDER	PCB00651_01	6510818-198	2018-03-27	Radiated Spurious emission from 30
#2	180000-01.S02	ADAPTER	JFP ADAPTER M2	-	2017-08-09	MHz to 1 GHz
	170209-01.S16	LAPTOP	LATITUDE E470	C1HTPF2	2017-02-09	
	180717-04.S08	RF MODULE	AX201D2WL	WFM:3413E8CA8DFC	2018-10-02	
#3	180717-03.S18	EXTENDER	PCB00651_01	6510817-133	2018-08-21	Radiated Spurious emission from 1 GHz
#3	180000-01.S06	ADAPTER	JFP ADAPTER M2	-	2018-08-20	to 26.5 GHz
	170801-01.S10	LAPTOP	LATITUDE E7470	7KNOXF2	2017-09-07	

5. EUT Features

Brand Name	Intel® Wi-Fi 6 AX201			
Model Name	AX201D2WL			
FCC ID	PD9AX201D2L			
ISED ID	1000M-AX201D2L			
Software Version	OEM DRTU_08048_11_1832_0G			
Driver Version	20.70.0.2			
Prototype / Production	Production			
Supported Radios	802.11b/g/n/ax 802.11a/n/ac/ax	2.4GHz (2400.0 – 2483.5 MHz) 5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)		
	Bluetooth 5 2.4GHz (2400.0 – 2483.5 MHz)			
Antenna Information	CHAIN A: PIFA antenna. WiFi 2.4GHz & 5GHz and BT CHAIN B: PIFA antenna. WiFi 2.4GHz & 5GHz			
Additional Information				

6. Remarks and comments

N/A

7. Test Verdicts summary

7.1. BT Basic Data Rate / Enhanced Data Rate

FCC part	RSS part	Test name	Verdict
15.247 (a) (1)	RSS-247 Clause 5.1 (a) and (b)	20dB Bandwidth and Carrier frequency separation	Р
15.247 (a) (1) (iii) RSS-247 Clause 5.1 (d)		Number of hopping channels	Р
15.247 (a) (1) (iii)	RSS-247 Clause 5.1 (d)	Time of Occupancy (Dwell Time)	Р
15.247 (b) (1)	RSS-247 Clause 5.4 (b)	Maximum Peak Output Power and antenna gain	Р
15.247 (d)	RSS-247 Clause 5.5	Out-of-band Emissions (conducted)	Р
15.247 (d) 15.209	RSS-247 Clause 5.5 RSS GEN Clause 8.9	Out-of-band Emissions (radiated)	Р

8. Document Revision History

Revision #	Date	Modified by	Revision Details
Rev. 00	2018-11-19	T. Andriamiharivolamena G. Roustan	First Issue



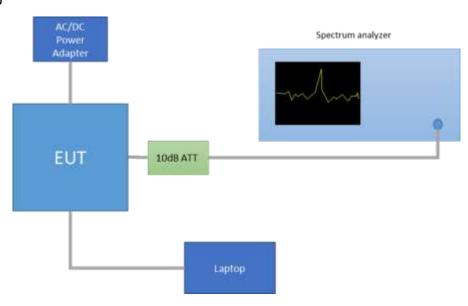
Annex A. Test & System Description

A.1 Measurement System

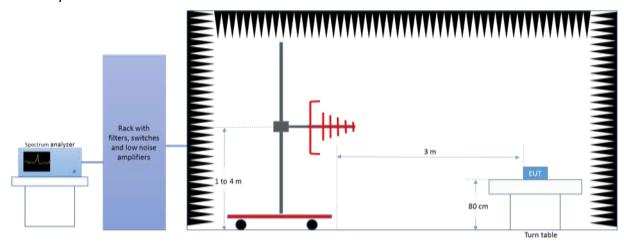
Measurements were performed using the following setups.

The DUT was installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes.

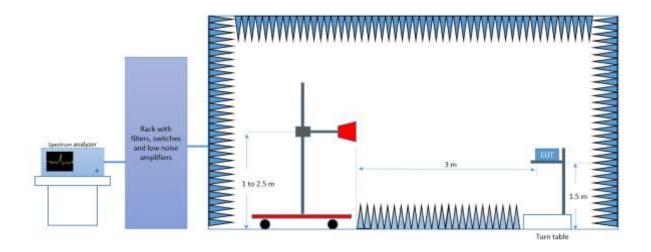
Conducted Setup



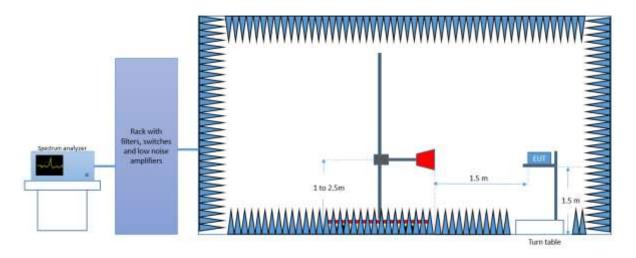
Radiated Setup 30 MHz- 1 GHz



Radiated Setup 1 GHz - 18 GHz



Radiated Setup 18 GHz - 26.5 GHz



A.2 Test Equipment List

Conducted Setup

0.1144.014							
	ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
	0316	Spectrum analyzer	FSV30	103309	Rohde & Schwarz	2017-09-22	2019-09-22

Radiated Setup-1

Radiated Setup-1							
ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date	
0420	Spectrum analyzer	FSV40	101556	Rohde & Schwarz	2018-05-17	2020-05-17	
0137	Log antenna 30 MHz – 1 GHz	3142E	00156946	ETS Lindgren	2017-12-19	2019-12-19	
0135	Semi Anechoic chamber	FACT 3	5720	ETS Lindgren	2018-04-18	2020-04-18	
0530	Measurement Software	EMC32	100623	Rohde & Schwarz	N/A	N/A	

N/A: Not Applicable



Radiated Setup-2

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
0133	Spectrum analyzer	FSV40	101358	Rohde & Schwarz	2018-04-11	2020-04-11
0138	Double Ridged Horn Antenna 1 GHz – 18 GHz	3117	00152266	ETS Lindgren	2017-03-29	2019-03-29
0141	Double Ridged Horn Antenna 1 GHz – 18 GHz	3117	00157736	ETS Lindgren	2018-05-11	2020-05-11
0334	Double Ridged Horn Antenna 18 GHz – 40 GHz	3116C-PA	00196308	ETS Lindgren	2017-08-22	2019-08-22
0337	Full Anechoic chamber	RFD_FA_100	5996	ETS Lindgren	2018-04-17	2020-04-17
0329	Measurement Software	EMC32	100401	Rohde & Schwarz	N/A	N/A

N/A: Not Applicable

Radiated Setup - shared equipment

radiated Cotap Chared Equipment						
ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
0616	Power Sensor 50MHz-18GHz	NRP-Z81	104385	Rohde & Schwarz	2018-04-16	2020-04-16
0617	Power Sensor 50MHz-18GHz	NRP-Z81	104386	Rohde & Schwarz	2018-04-16	2020-04-16
0618	Power Sensor 50MHz-18GHz	NRP-Z81	104382	Rohde & Schwarz	2018-04-16	2020-04-16



A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the below table:

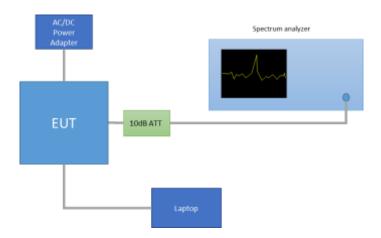
Measurement type	Uncertainty [±dB]
Conducted Power	±1.0
Conducted Spurious Emission	±2.9
Radiated tests <1GHz	±3.8
Radiated tests 1GHz - 40 GHz	±4.7

Annex B. Test Results

B.1 20dB Bandwidth and carrier frequency separation

Test limits

FCC part	RSS part	Limits
15.247 (a) (1)	RSS-247 Clause 5.1 (a) and (b)	Frequency hopping systems shall have hopping 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.

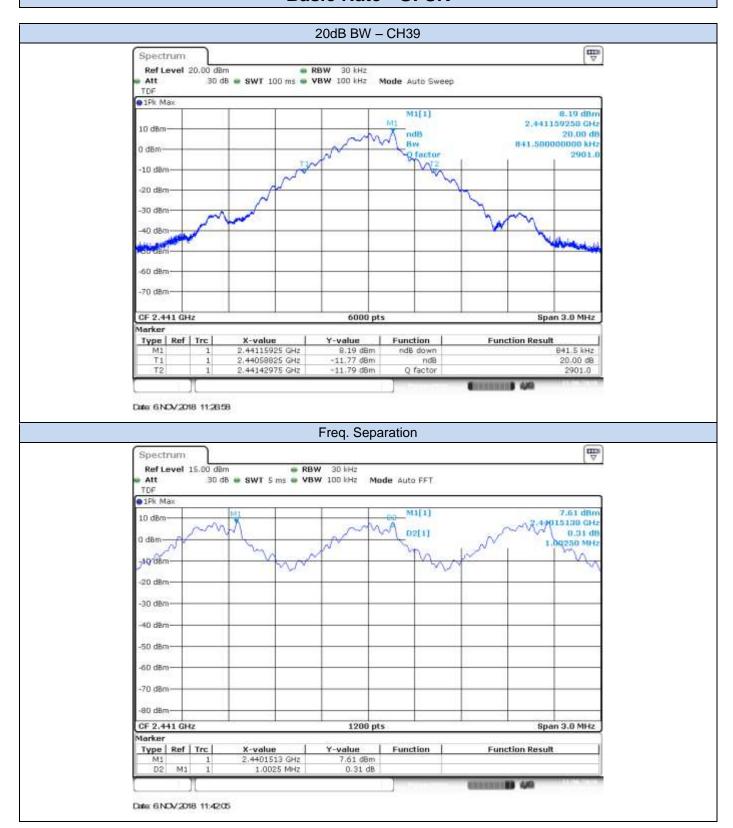


Results tables:

Mode	Packet Type	Channel Number	Frequency [MHz]	20dB BW [MHz]	Freq. Separation [kHz]
Davis Data		0	2402	0.826	
Basic Rate GFSK	DH5	39	2441	0.842	1000
OI OIL		78	2480	0.840	
500		0	2402	1.409	1000
EDR π/4-DQPSK	2DH5	39	2441	1.409	
II/4 DQI OK		78	2480	1.425	
EDR 8-DPSK		0	2402	1.417	
	3DH5	39	2441	1.405	1000
		78	2480	1.395	

Results screenshot

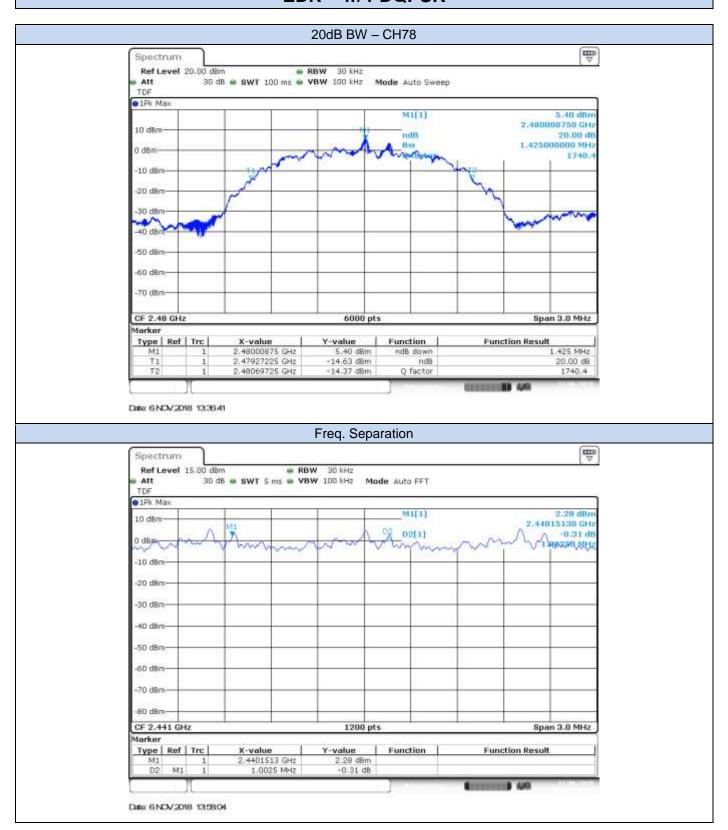
Basic Rate - GFSK







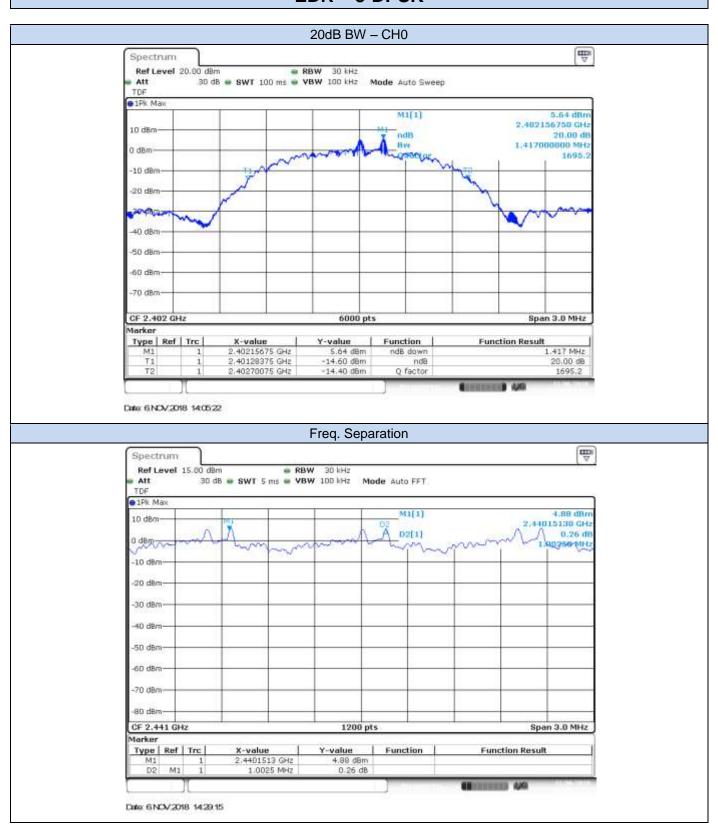
EDR $-\pi/4$ -DQPSK







EDR - 8-DPSK



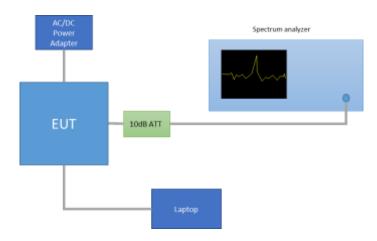
B.2 Number of hopping channels

Test limits

FCC part	RSS part	Limits
15.247 (a) (1) (iii)	RSS-247 Clause 5.1 (d)	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

Test procedure

The setup below was used to measure the number of hopping channels. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

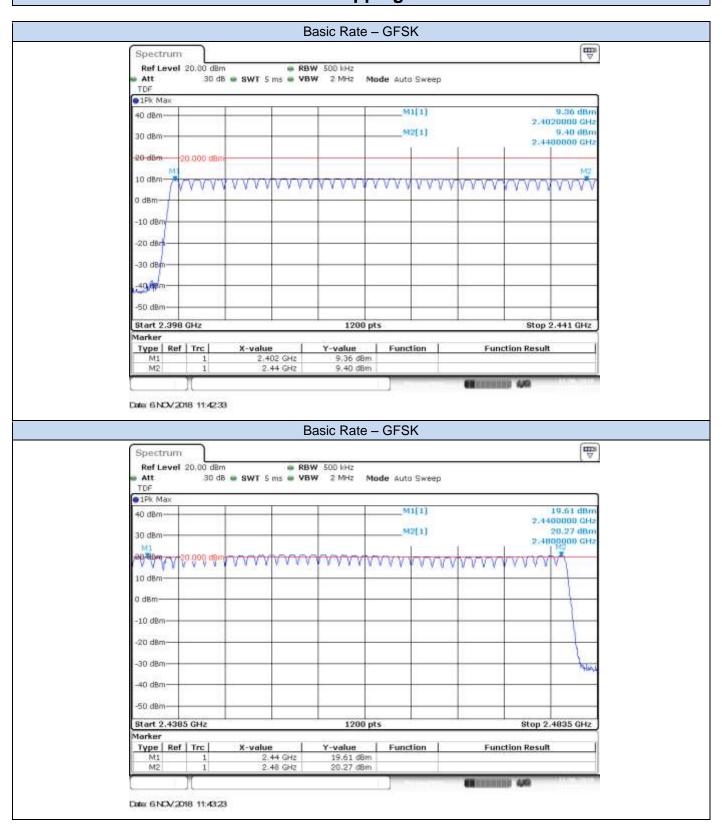


Results tables

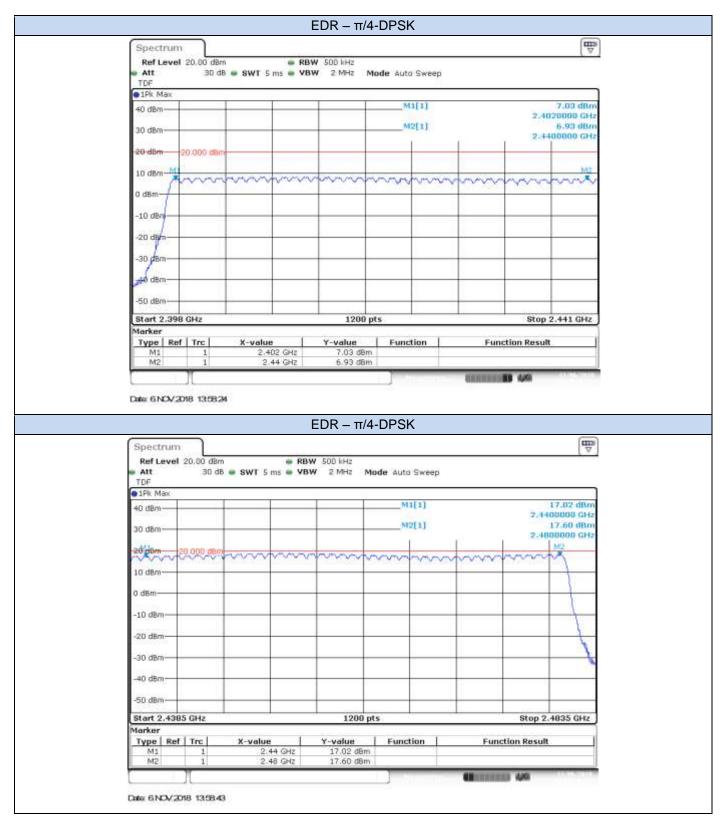
Mode	Packet Type	Number of hopping channels
Basic Rate GFSK	DH5	79
EDR π/4-DQPSK	2DH5	79
EDR 8-DPSK	3DH5	79

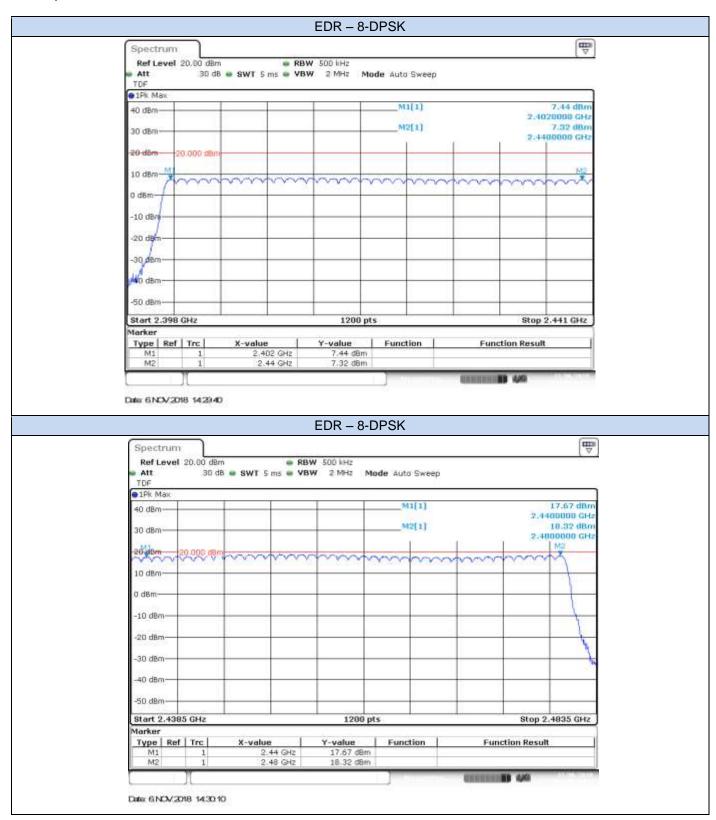


Number of hopping channels







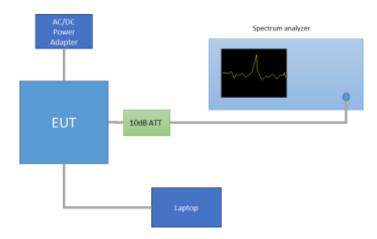


B.3 Time of Occupancy (Dwell Time)

FCC part	RSS part	Limits
15.247 (a) (1) (iii)	RSS-247 Clause 5.1 (d)	The average time of occupancy (Dwell Time) 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.

Test procedure

The setup below was used to measure the dwell time. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



In the worst case, the system makes 1600 hops per second with 79 channels, providing a 1 timeslot length of 625 µs.

A DH1 packet, with independence of the modulation, needs 1 time slot for transmitting and 1 time slot for receiving. Then, the system makes in the worst case 1600/2 = 800 hops per second with 79 channels. So each channel appears 800/79 = 10.13 times per second and, for a period of $0.4 \times 79 = 31.6$ seconds, each channel appears $10.13 \times 31.6 = 320.11$ times.

A DH3 packet, with independence of the modulation, needs 3 time slots for transmitting and 1 time slot for receiving. Then, the system makes in the worst case 1600/4 = 400 hops per second with 79 channels. So each channel appears 400/79 = 5.1 times per second and, for a period of $0.4 \times 79 = 31.6$ seconds, each channel appears $5.1 \times 31.6 = 161.16$ times.

A DH5 packet, with independence of the modulation, needs 5 time slots for transmitting and 1 time slot for receiving. Then, the system makes in the worst case 1600/6 = 266.67 hops per second with 79 channels. So each channel appears 166.67/79 = 3.37 times per second and, for a period of $0.4 \times 79 = 31.6$ seconds, each channel appears $3.37 \times 31.6 = 106.49$ times.

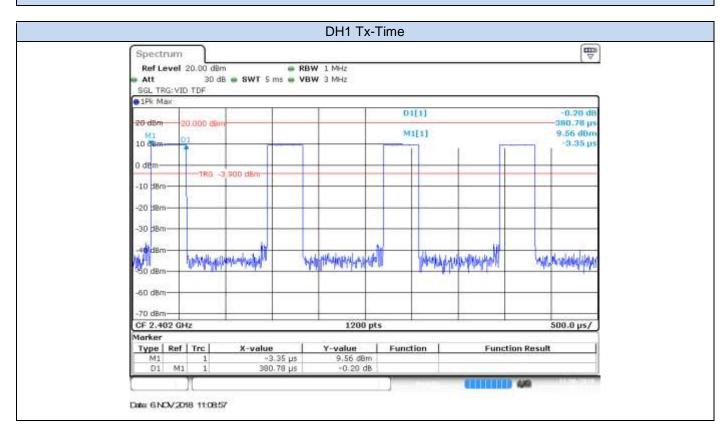
Thus, the total time of occupancy is obtained by multiplying the calculated maximum number of appearances per packet type and the measured Tx-time, as shown in the results screenshots.

Results tables

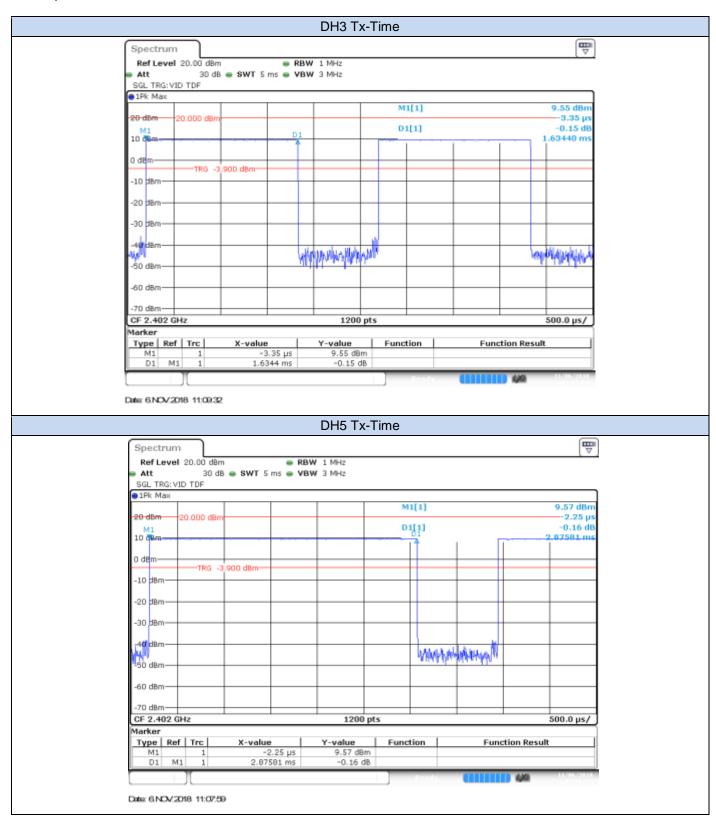
Mode	Packet Type	Times of appearance	Tx-time [ms]	Dwell Time [ms]
Basic Rate	DH1	320.11	0.381	121.891
GFSK	DH3	161.16	1.634	263.400
GFSK	DH5	106.49	2.876	306.244
EDD	2-DH1	320.11	0.389	124.366
EDR π/4-DQPSK	2-DH3	161.16	1.639	264.173
11/4-DQF3K	2-DH5	106.49	2.886	307.298
EDD	3-DH1	320.11	2.886	923.741
EDR	3-DH3	161.16	1.637	263.753
8-DPSK	3-DH5	106.49	2.885	307.256

Results Screenshot:

BDR - GFSK

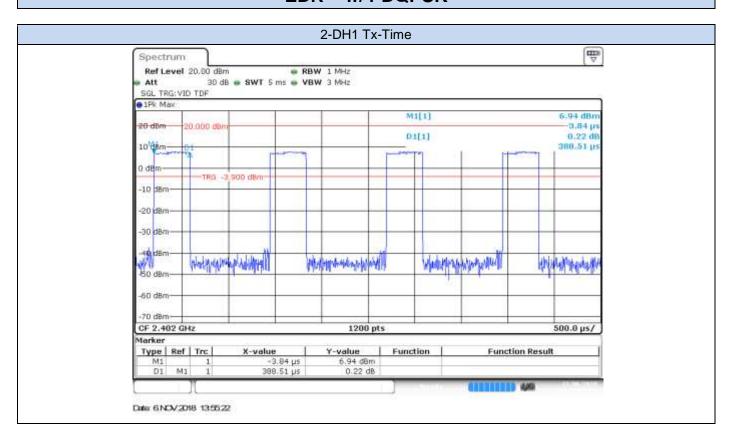


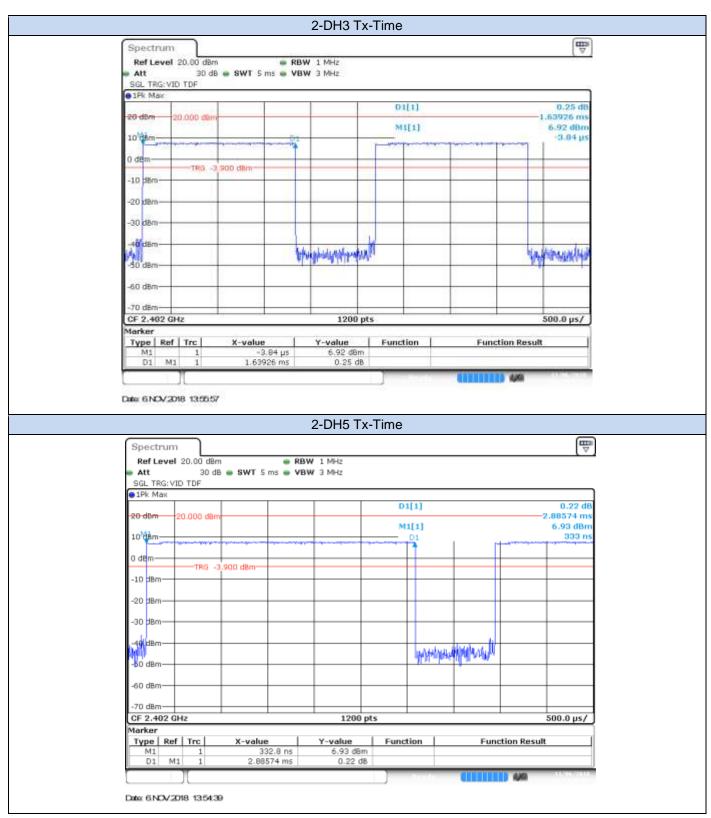
Ray 00





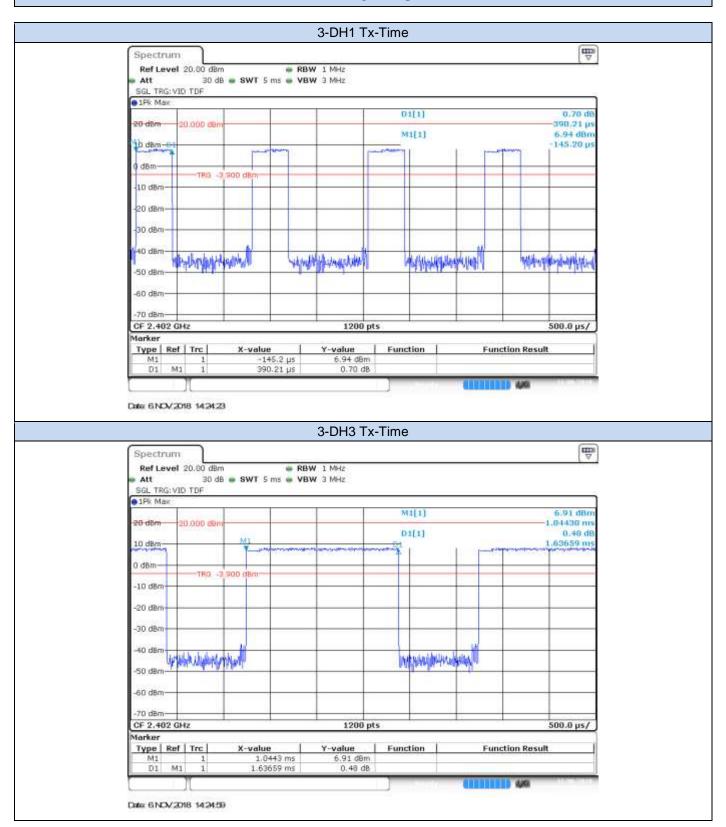
EDR $-\pi/4$ -DQPSK



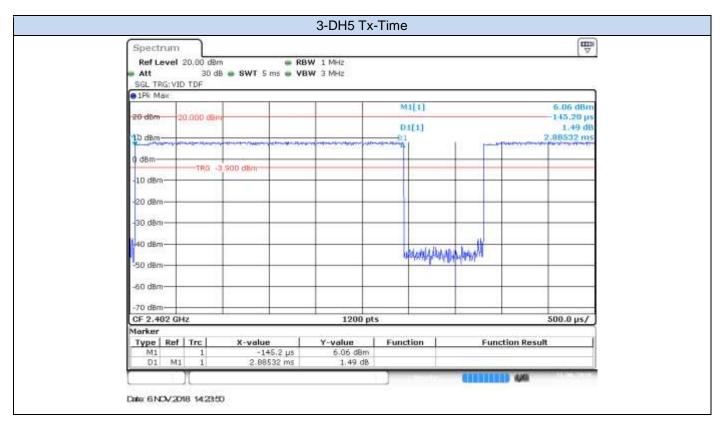




EDR - 8-DPSK







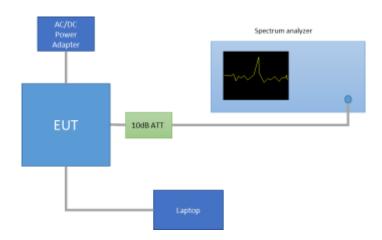
B.4 Maximum Peak Output Power antenna gain

Test Limits

	FCC part	RSS part	Limits
-	15.247 (b) (1)	RSS-247 Clause 5.4 (b)	 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (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. ()
			(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.

Test procedure

The setup below was used to measure the maximum peak output power. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



The declared maximum antenna gain is 3.24dBi.

Results tables

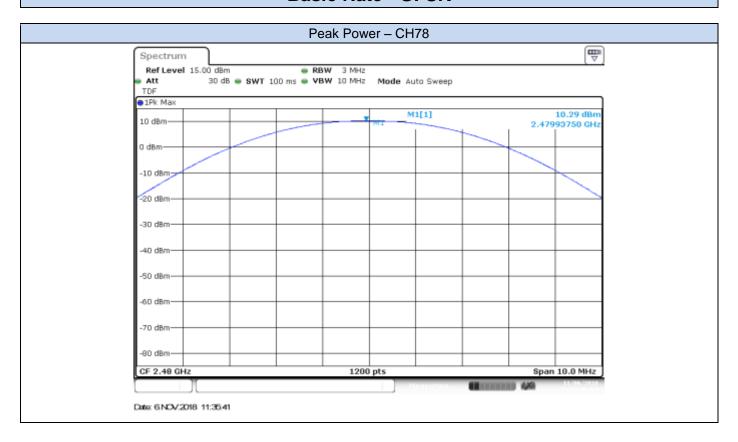
Mode	Packet Type	Channel Number	Frequency [MHz]	Peak Power [dBm]	Peak Power [mW]	Peak Power EIRP [dBm]	Peak Power EIRP [mW]
Davis Data		0	2402	9.57	9.06	12.81	19.10
Basic Rate GFSK	DH5	39	2441	9.60	9.12	12.84	19.23
OI OIC		78	2480	10.29	10.69	13.53	22.54
EDD	K ^{2DH5}	0	2402	8.57	7.19	11.81	15.17
EDR π/4-DQPSK		39	2441	8.78	7.55	12.02	15.92
III- DQI OK		78	2480	9.12	8.17	12.36	17.22
500		0	2402	8.72	7.45	11.96	15.70
EDR 8-DPSK	3DH5	39	2441	8.87	7.71	12.11	16.26
0-DF SR		78	2480	9.24	8.39	12.48	17.70

Max Value Min Value

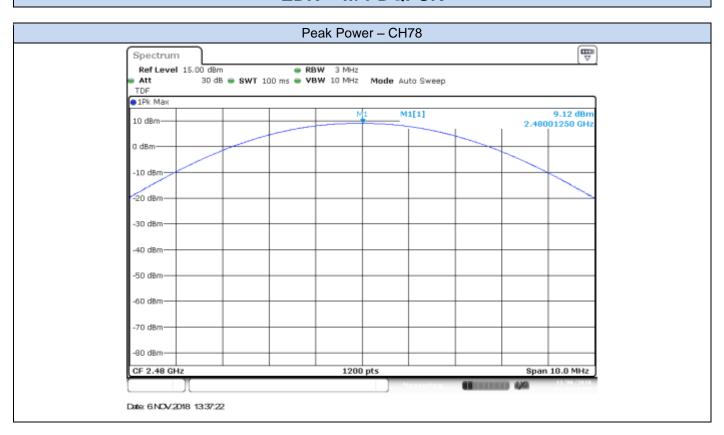


Results Screenshot

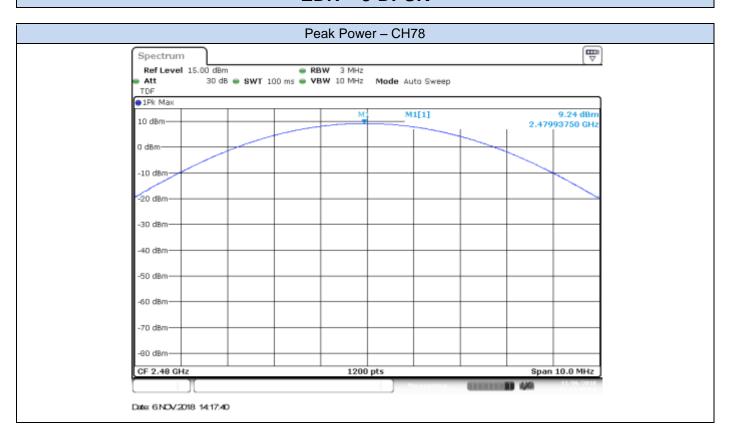
Basic Rate - GFSK



EDR - π/4-DQPSK



EDR - 8-DPSK



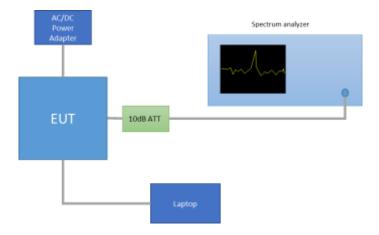
B.5 Out-of-band emission (conducted)

Test limits

FCC part	RSS part	Limits
15.247 (d)	RSS-247 Clause 5.5	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.

Test procedure

The setup below was used to measure the out-of-band emissions (conducted). The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.







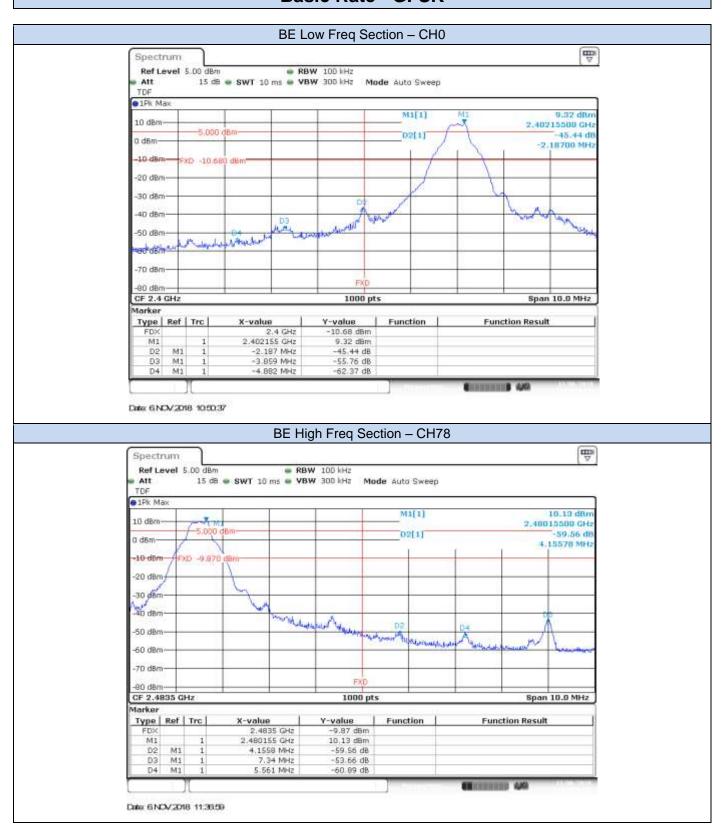
Note: these PSD_{Peak} values are shown just as a reference for the compliance of the Out-of-band Measurements. Thus the RBW used for these measurements was 100 kHz.

Mode	Packet Type	СН	Frequency [MHz]	PSD Peak [dBm/100kHz]
		0	2402	9.32
Basic Rate - GFSK	DH5	39	2441	9.39
Si Si		78	2480	10.13
	2DH5	0	2402	6.70
EDR – π/4- DQPSK		39	2441	6.93
DQI OIL		78	2480	7.18
		0	2402	6.79
EDR – 8-DPSK	3DH5	39	2441	7.05
		78	2480	7.19

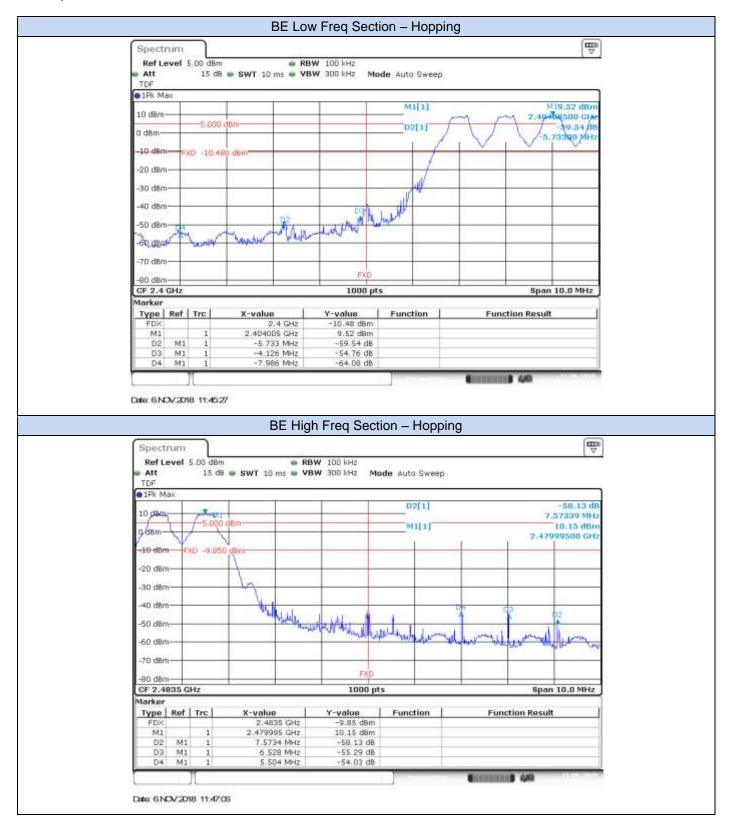




Basic Rate - GFSK





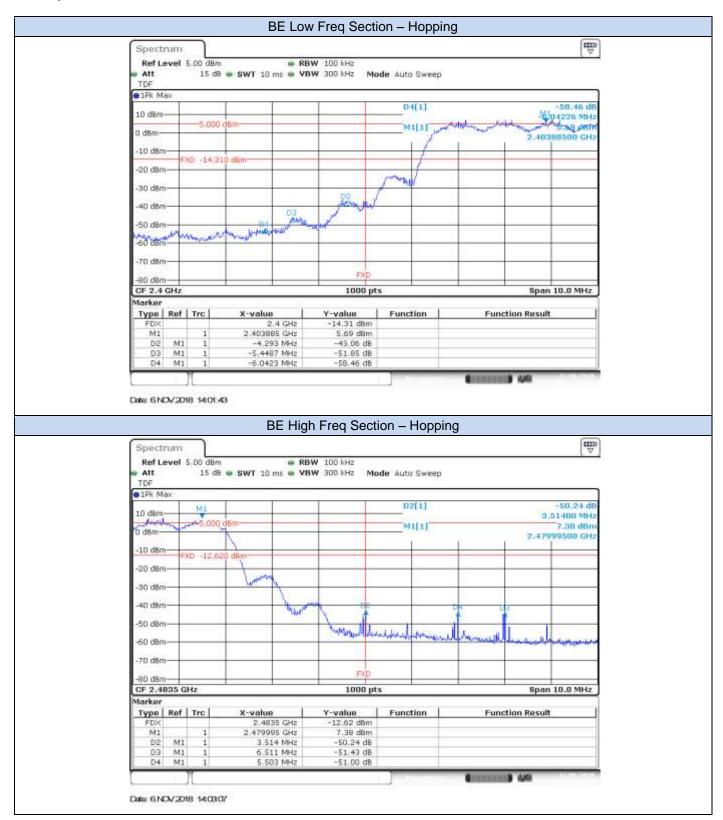




EDR $-\pi/4$ -DQPSK





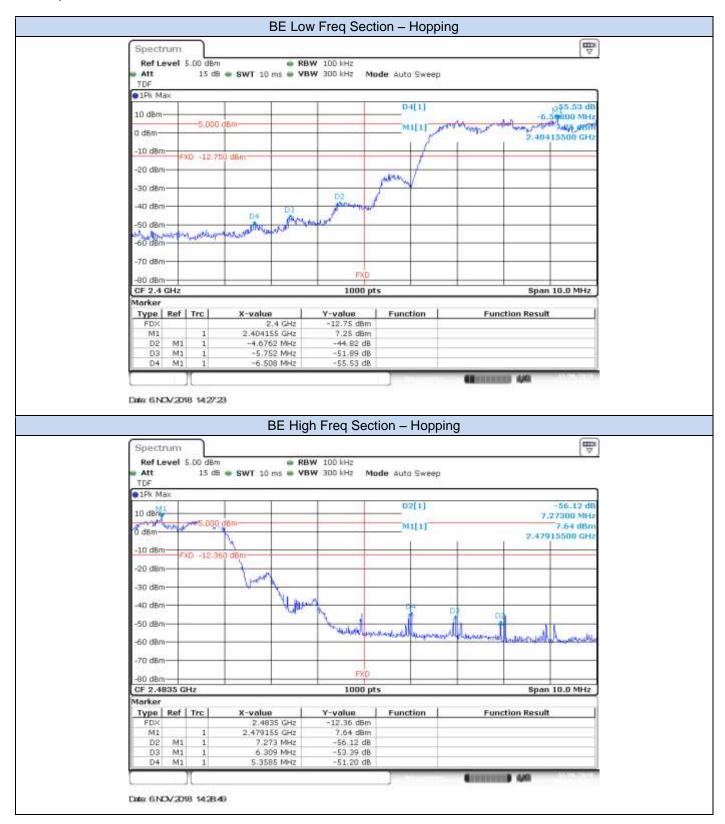




EDR - 8-DPSK



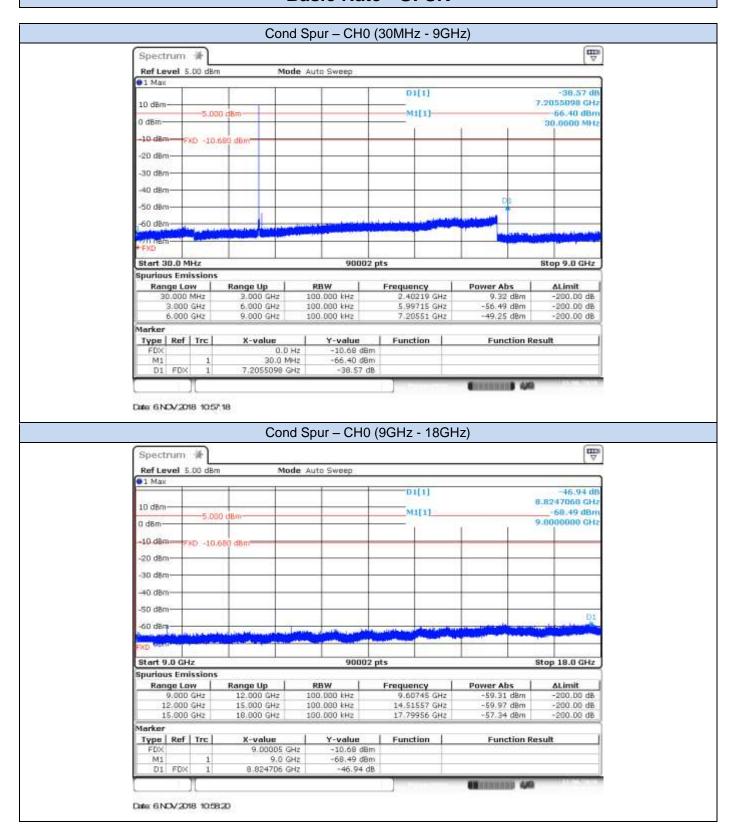


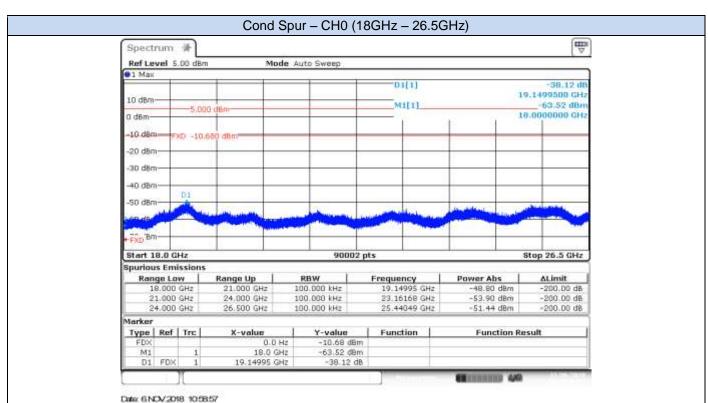




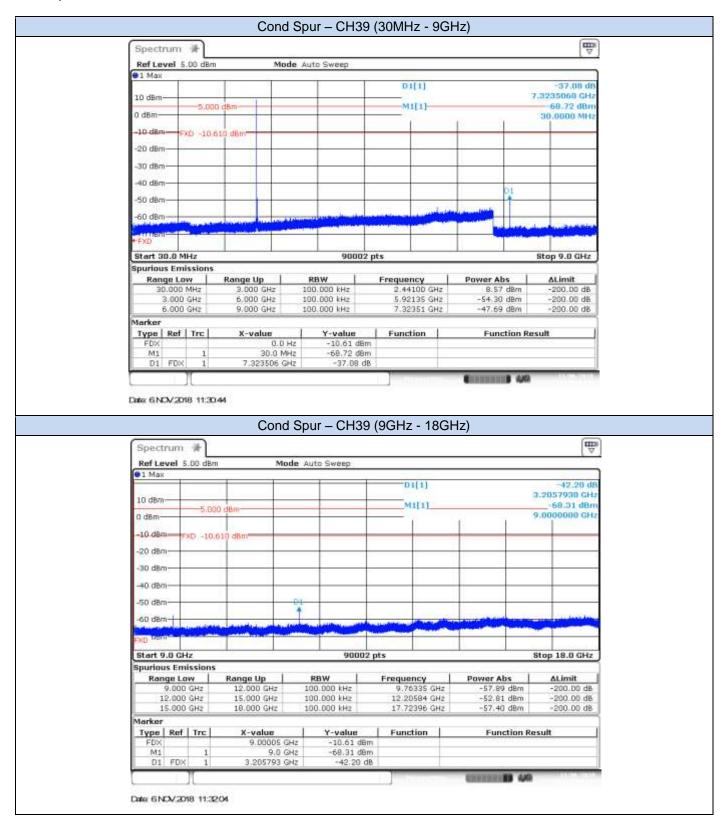
Conducted Spurious results Screenshot

Basic Rate - GFSK

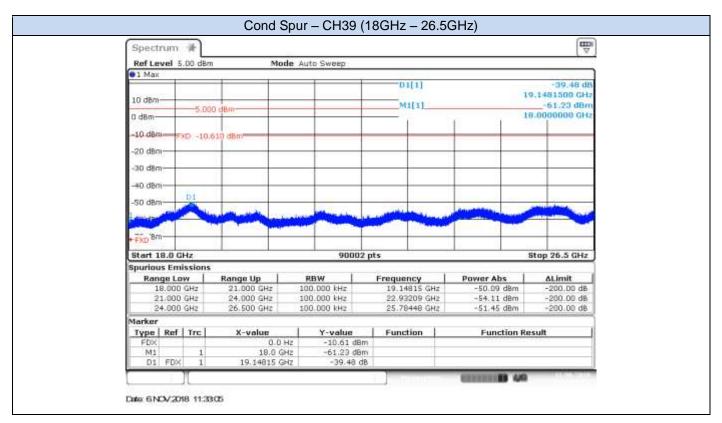




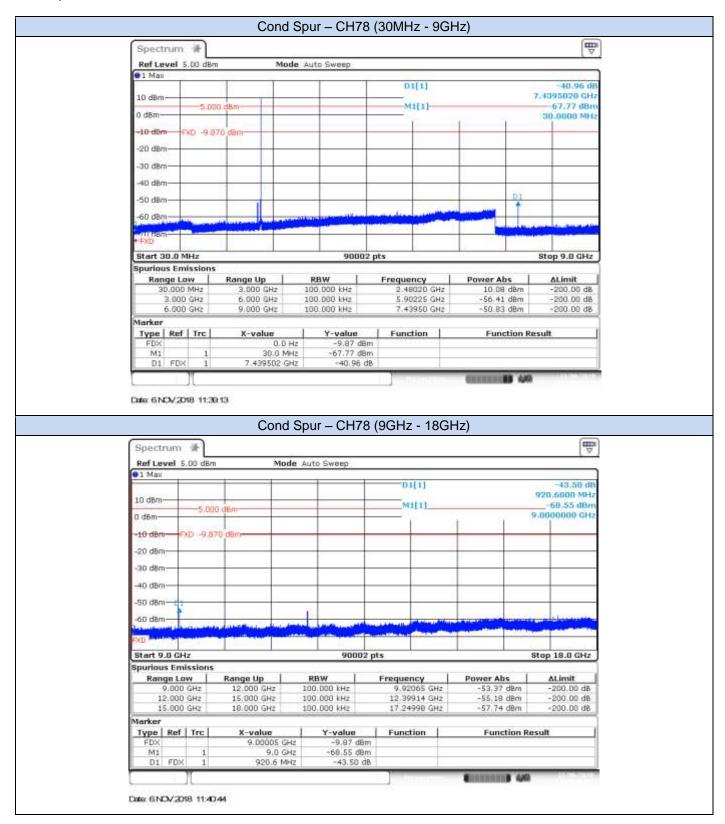




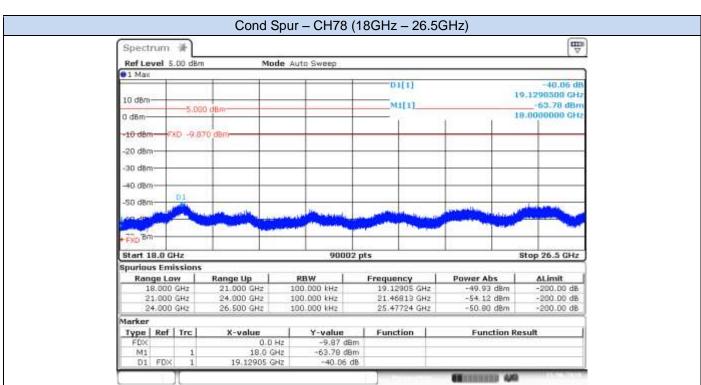
Rev. 00







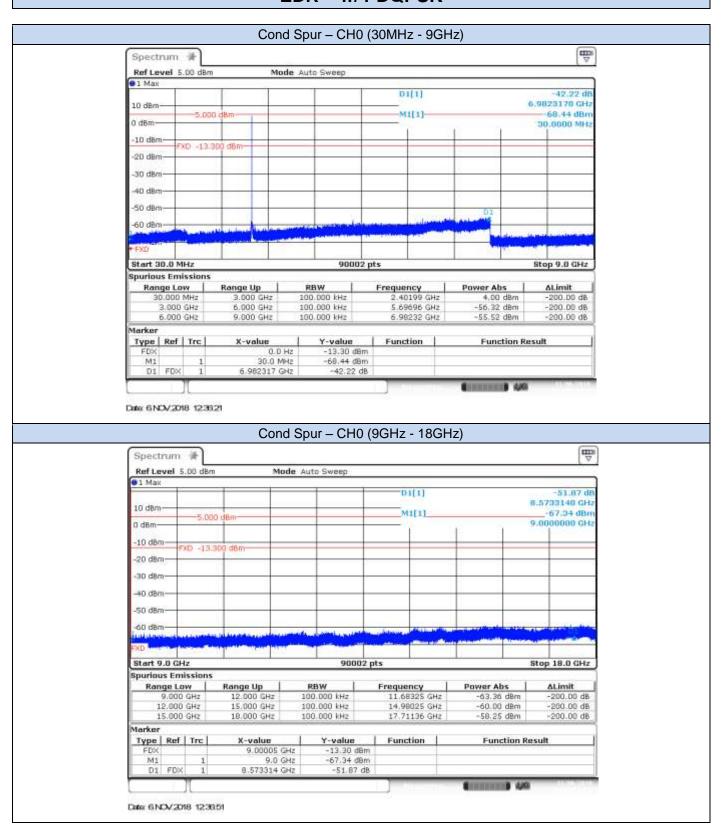
Date: 6NOV:2018 11:41:17



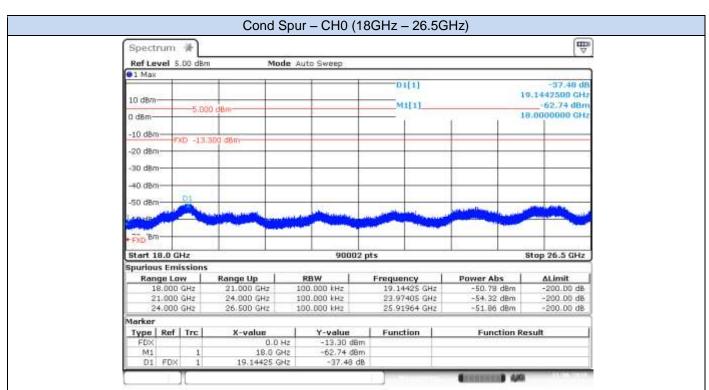




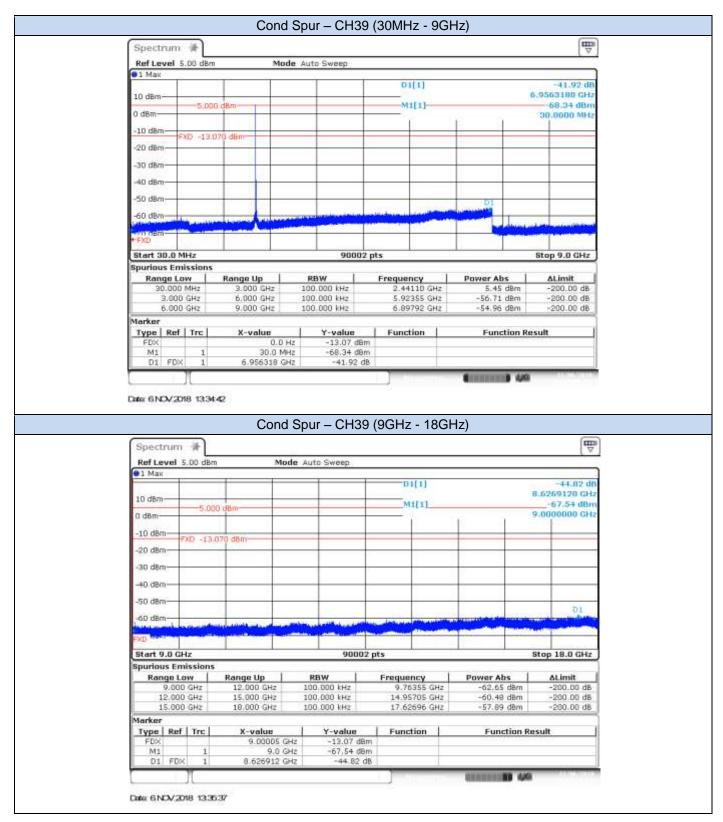
EDR $-\pi/4$ -DQPSK



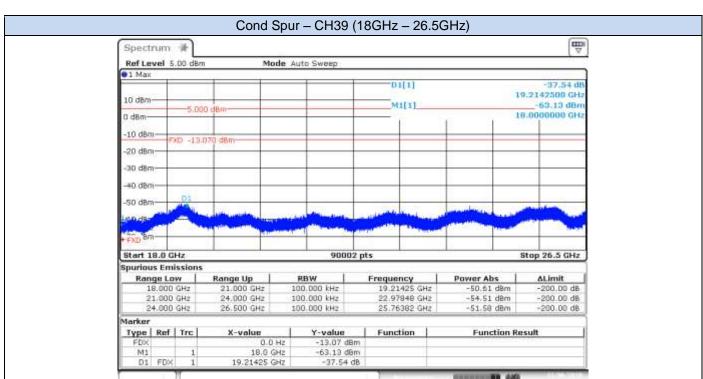
Date: 6NOV2018 12:37:28



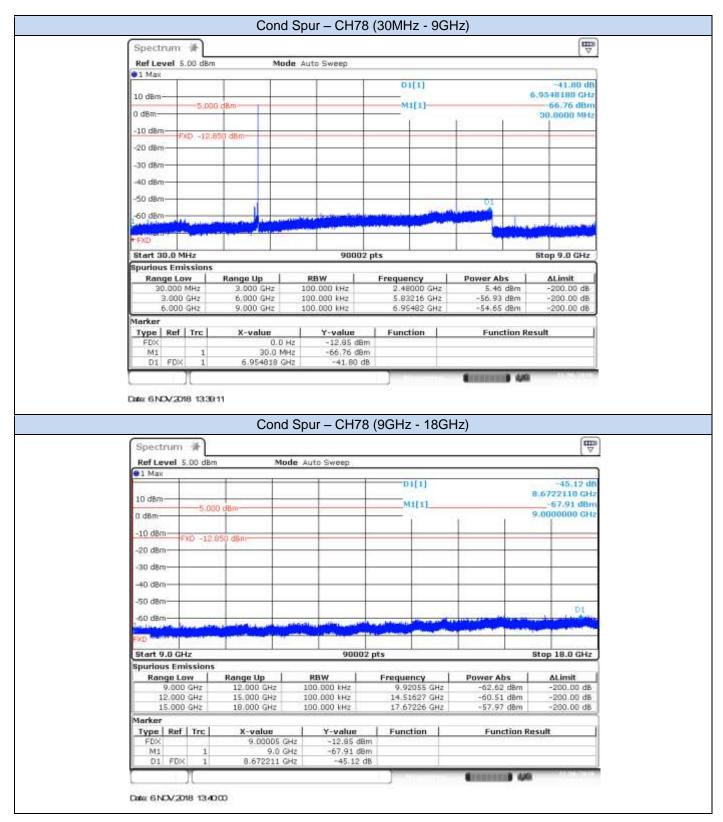




Date: 6NOV:2018 13:36:01





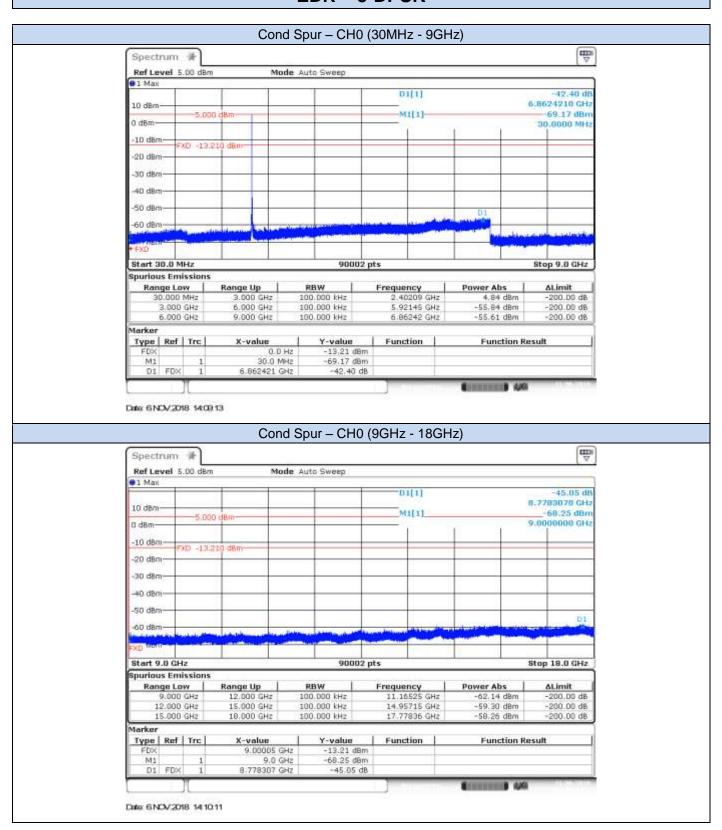


Date: 6NOV:2018 13:40:30

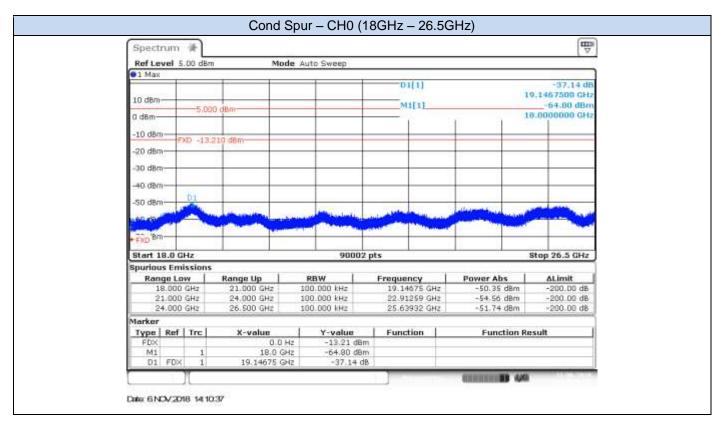
Cond Spur - CH78 (18GHz - 26.5GHz) ₩. Spectrum # Ref Level 5.00 dBm Mode Auto Sweep 91 Max D1[1] -37.32 dB 19.0940500 GHz 10 dBm M1[1] -62.90 dBn 18.0000000 GHz 0 dBm -20 dam -30 dBr 40 dBm Start 18.0 GHz 90002 pts Stop 26.5 GHz Spurious Emissions Range Low 18.000 GHz 21.000 GHz 24.000 GHz Range Up 21.000 GHz 24.000 GHz 26.500 GHz Frequency 19.09405 GHz 21.59183 GHz 25.76198 GHz -50.17 dBm -54.52 dBm -51.65 dBm ΔLimit RBW 100.000 kHz 100.000 kHz 100.000 kHz -200.00 dB -200.00 dB -200.00 dB Marker X-value 0.0 Hz 18.0 GHz 19.09405 GHz Y-value -12.85 dBm -62.90 dBm -37.32 dB Type | Ref | Trc | Function **Function Result** D1



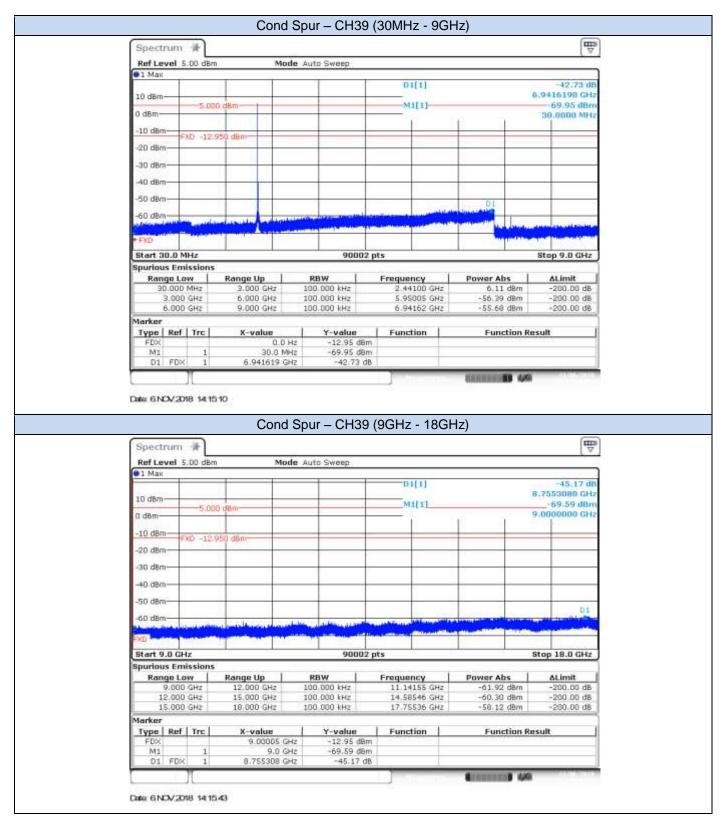
EDR - 8-DPSK

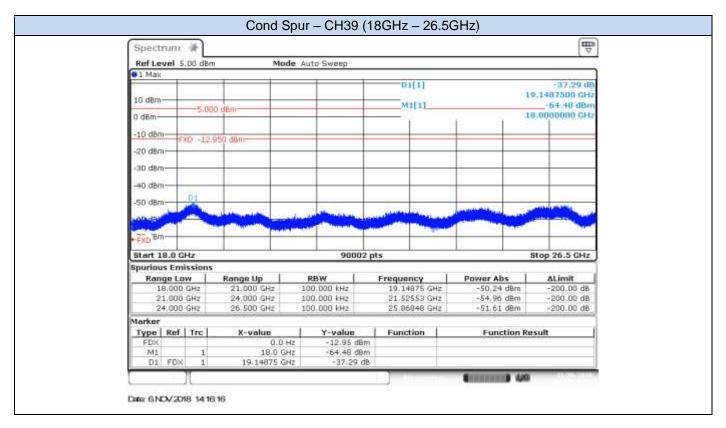


Rev 00

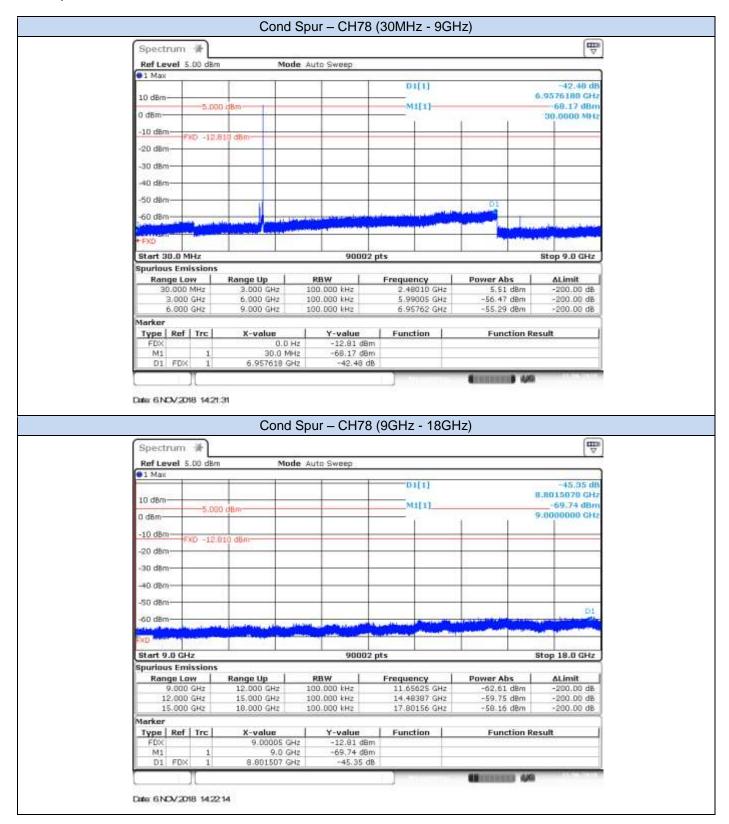




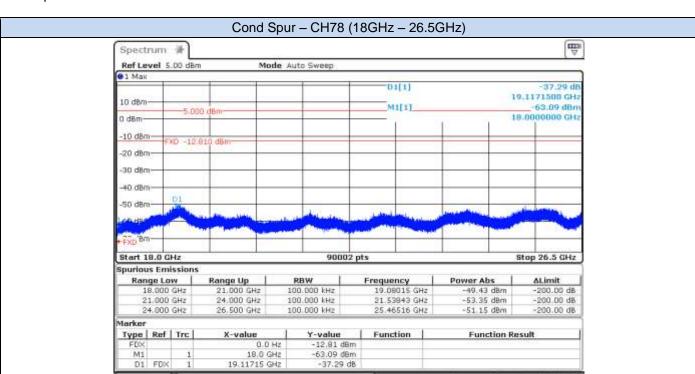








Date: 6NOV:2018 14:22:39



B.6 Radiated spurious emission

Standards references

FCC part	RSS part	Limits					
						defined in §15.2 cified in §15.209(
		Fr	eq Range (MHz)	Field Stregth (μV/m)	Field Stregth (dBμV/m)	Meas. Distance (m)	
			30-88	100	40	3	
	RSS-247		88-216	150	43.5	3	
	Clause 5.5		216-960	200	46	3	
15.247 (d)	0.0000	А	bove 960	500	54	3	
15.209 (a)	RSS GEN Clause 8.9	employing kHz, 110- three band For average a limit spe	CISPR quay 490 kHz and sare based ge radiated ecified when	asi-peak detecto nd above 1000 M d on measureme emission measu	r except for the IHz. Radiated e nts employing ar rements above 1 peak detector for	sed on measurer frequency bands mission limits in a average detecto 000 MHz, there i unction, correspo	s 9-90 these or. s also

Test procedure:

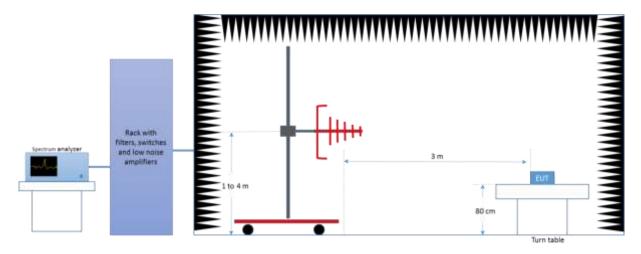
The setups below were used to measure the radiated spurious emissions.

Depending of the frequency range and bands being tested, different antennas and filters were used.

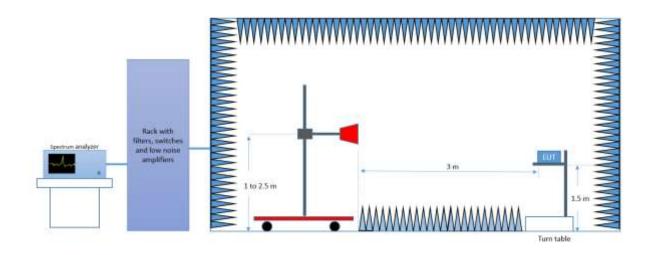
The final measurement is done by varying the antenna height as indicated in the setups below for each band, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

The radiated spurious emission was measured on the worst case configuration found.

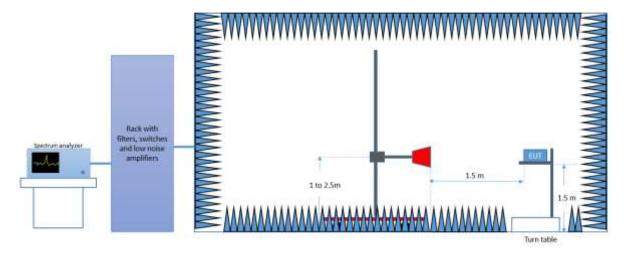
Radiated Setup 30 MHz - 1GHz



Radiated Setup 1 GHz - 18 GHz



Radiated Setup 18 GHz - 26.5 GHz







Sample Calculation

The field strength is deduced from the radiated measurement using the following equation:

$$E = 126.8 - 20\log(\lambda) + P - G$$

where

E is the field strength of the emission at the measurement distance, in dBμV/m

P is the power measured at the output of the test antenna, in dBm

 λ is the wavelength of the emission under investigation [300/f_{MHz}], in m

G is the gain of the test antenna, in dBi

NOTE – The measured power P includes all applicable instrument correction factors up to the connection to the test

Antenna e.g. cable losses, amplifier gains.

For field strength measurements made at other than the distance at which the applicable limit is specified, the field strength of the emission at the distance specified by the limit is deduced as follows:

$$E_{SpecLimit} = E_{Meas} + 20log(D_{Meas}/D_{SpecLimit})$$

where

EspecLimit is the field strength of the emission at the distance specified by the limit, in dBµV/m

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

D_{Meas} is the measurement distance, in m

DspecLimit is the distance specified by the limit, in m

Test Results

30 MHz - 26.5 GHz, BR - GFSK

Radiated Spurious - CH0 DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
624.0	34.8		46.0	11.2
3343.5		46.3	54.0	7.7
3359.5	58.3		74.0	15.7
7205.7		39.4	54.0	14.6
7206.2	49.0		74.0	25.0
20719.6	46.6		74.0	27.4
20720.0		38.9	54.0	15.1

Radiated Spurious - CH39 DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
600.0	33.8		46.0	12.2
3341.5	59.3		74.0	14.7
3356.5		46.4	54.0	7.6
7439.2	51.0		74.0	23.0
7439.7		39.6	54.0	14.4
9920.1		41.0	54.0	13.0
9920.6	50.4		74.0	23.6
20720.0		38.2	54.0	15.8
20720.4	47.4		74.0	26.6

Radiated Spurious - CH78 DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
624.0	33.8		46.0	12.2
3367.5	58.4		74.0	15.6
3370.0		46.3	54.0	7.7
7322.7	49.6		74.0	24.4
7322.7		39.6	54.0	14.4
20720.0	47.5		74.0	26.5
20720.0		38.6	54.0	15.4

$30 \text{ MHz} - 26.5 \text{ GHz}, \text{ EDR} - \pi/4 - \text{DQPSK}$

Radiated Spurious - CH0 2DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
624.0	34.1		46.0	11.9
3337.5	59.5		74.0	14.5
3348.5		46.2	54.0	7.8
16711.0		47.5	54.0	6.5
16745.3	59.0		74.0	15.0
20720.0	47.5		74.0	26.5
20720.0		38.5	54.0	15.5

Radiated Spurious - CH39 2DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
624.0	33.5		46.0	12.5
3347.5	58.7		74.0	15.3
3363.0		46.3	54.0	7.7
16695.0	58.4		74.0	15.6
16709.0		47.5	54.0	6.5
20720.0	47.0		74.0	27.0
20720.0		38.8	54.0	15.2

Radiated Spurious - CH78 2DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
597.4	35.2		46.0	10.8
3334.0	58.8		74.0	15.2
3334.5		46.3	54.0	7.7
16716.8	58.2		74.0	15.8
16716.8		47.5	54.0	6.5
20719.6	46.8		74.0	27.2
20720.0		38.5	54.0	15.5

30 MHz - 26.5 GHz, EDR - 8-DPSK

Radiated Spurious - CH0 3DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
624.0	33.9		46.0	12.1
3365.5	58.2		74.0	15.8
3372.0		46.6	54.0	7.4
16734.6	59.5		74.0	14.5
16736.6		47.5	54.0	6.5
20720.0	46.9		74.0	27.1
20720.0		38.2	54.0	15.8

Radiated Spurious - CH39 3DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
624.0	34.8		46.0	11.2
3356.0	58.9		74.0	15.1
3366.0		46.4	54.0	7.6
16700.3		47.4	54.0	6.6
16712.9	59.4		74.0	14.6
20720.0	46.4		74.0	27.6
20720.0		38.6	54.0	15.4

Radiated Spurious - CH78 3DH5

Frequency	MaxPeak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
576.0	32.5		46.0	13.5
3365.0	60.1		74.0	13.9
3368.5		46.5	54.0	7.5
16726.4	58.9		74.0	15.1
16754.0		47.9	54.0	6.1
20720.0	46.5		74.0	27.5
20720.0		38.8	54.0	15.2