TESTING CERT #3478.01

TEST REPORT

EUT Description	**WLAN and BT, 2x2 PCIe M.2 2230 adapter card**
Brand Name	**Intel® Dual Band Wireless-AC 8265**
Model Name	**8265NGW**
Serial Number	**TA#: H93538-003** **WF MAC: 34:13:E8:52:D5:B4 / 34:13:E8:52:D9:0B / 34:13:E8:52:D8:F7** **BT MAC: 34:13:E8:52:D5:B8 / 34:13:E8:52:D9:0F / 34:13:E8:52:D8:FB** (see section 4)
FCC/IC ID	**FCC ID: PD98265NG / PD98265NGU** **IC ID: 1000M-8265NG**
Antenna type	**SkyCross WIMAX/WLAN Reference Antenna**
Hardware/Software Version	**HW: WsP2230 cfg12.1MS** **Test SW: DRTU version 1.8.7-02784** **Op SW: 99.0.19.1**
Date of Sample Receipt	**2016-04-01**
Date of Test	**Radiated: 2016-04-05 / 2016-05-12**
Features	**802.11 a/b/g/n/ac Wireless LAN + BDR/EDR 2.1 + BLE 4.2** (see section 5)

Applicant	**Intel Mobile Communications**
Address	**100 Center Point Circle, Suite 200** **Columbia, South Carolina 29210** **USA**
Contact Person	**Steven Hackett**
Telephone/Fax/ Email	**steven.c.hackett@intel.com**

Reference Standards	**FCC CFR Title 47 Part 15C** **RSS-247 issue 1, RSS-Gen issue 4** (see section 1)

Test Report number	**160321-01.TR03**
Revision Control	**Rev. 00**

The test results relate only to the samples tested.
The test report shall not be reproduced in full, without written approval of the laboratory.

Issued by

Digitally signed by Olivier FARGANT
DN: cn=Olivier FARGANT, o=Intel Mobile Communications, ou=WRF Lab, email=olivier.fargant@intel.com, c=FR
Date: 2016.05.17 17:30:58 +02'00'

Olivier FARGANT
(RF Test Lead)

Reviewed by

Digitally signed by Jose M. FORTES
DN: cn=Jose M. FORTES, o=Inter Mobile Communications, ou=WRF Lab, email=jose.m.fortes.lopez@intel.com, c=FR
Date: 2016.05.17 17:36:17 +02'00'

Jose M. FORTES
(Technical Manager)

Intel Mobile Communications France S.A.S – WRF Lab
425 rue de Goa – Le Cargo B6 – 06600, Antibes, France
Tel. +33493001400 / Fax +33493001401

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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. Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems - DA 00-705 Released March 30, 2000
4. RSS-247 — Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.
5. RSS-Gen Issue 4 - General Requirements for Compliance of Radio Apparatus.
6. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

2. General conditions, competences and guarantees

- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a testing laboratory accredited by the American Association for Laboratory Accreditation (A2LA).
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm listed by the FCC, with Designation Number FR0011.
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by IC, with IC 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.
- ✓ Complete or partial reproduction of the report cannot be made without written permission of Intel WRF Lab.

3. Environmental Conditions

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

Temperature	23ºC ± 2ºC
Humidity	43% ± 5%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of reception	Note
#01	160321-01.S02	WiFi/BT Module	8265NGW	WF MAC: 34:13:E8:52:D8:CF, BT MAC: 34:13:E8:52:D8:D3	2016-04-01	Used for conducted tests
	160107-01.S14	Extender board	PCB00495	ASS00495-01 4950414-064	2016-01-07	
	160107-01.S19	AC/DC Adapter	SPU60-102	08741187 1350	2016-01-07	
	13112601.S05	Laptop	DELL Latitude	27078391477	2014-02-12	
#02	160321-01.S03	WiFi/BT Module	8265NGW	WF MAC: 34:13:E8:52:D9:0B, BT MAC: 34:13:E8:52:D9:0F	2015-04-01	Used for radiated tests (from 30 MHz to 1 GHz)
	160107-01.S12	Extender board	PC00495	4955013-034	2016-01-07	
	160107-01.S28	Laptop	Latitude E5440	BJSYN32	2016-01-15	
#03	160321-01.S05	WiFi/BT Module	8265NGW	WF MAC: 34:13:E8:52:D8:F7 BT MAC: 34:13:E8:52:D8:FB	2016-04-01	Used for radiated tests (from 1 GHz to 25 GHz)
	15060102.S03	Extender board	PCB00495	ASS00495-01 4955013-045	2015-06-12	
	15040201.S15	Laptop	DELL Latitude	21238680926	2015-04-15	

NA: Not Applicable

5. EUT features

These are the detailed bands and modes supported by the Equipment Under Test:

802.11b/g/n	2.4GHz (2400.0 – 2483.5 MHz)
802.11a/n/ac	5.2GHz (5150.0 – 5250.0 MHz) 5.3GHz (5250.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)
BDR/EDR 2.1 BLE 4.2	2.4GHz (2400.0 – 2483.5 MHz)

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 (1) and (2)	20dB Bandwidth and Carrier frequency separation	P
15.247 (a) (1) (iii)	RSS-247 Clause 5.1 (4)	Number of hopping channels	P
15.247 (a) (1) (iii)	RSS-247 Clause 5.1 (4)	Time of Occupancy (Dwell Time)	P
15.247 (b) (1)	RSS-247 Clause 5.4 (2)	Maximum Peak Output Power and antenna gain	P
15.247 (d)	RSS-247 Clause 5.5	Out-of-band Emissions (conducted)	P
15.247 (d) 15.209	RSS-247 Clause 5.5	Out-of-band Emissions (radiated)	P

P: Pass
F: Fail
NM: Not Measured
NA: Not Applicable

8. Document Revision History

Revision #	Date	Modified by	Details
Rev. 00	2016-05-17	G. Gerbaud	First issue

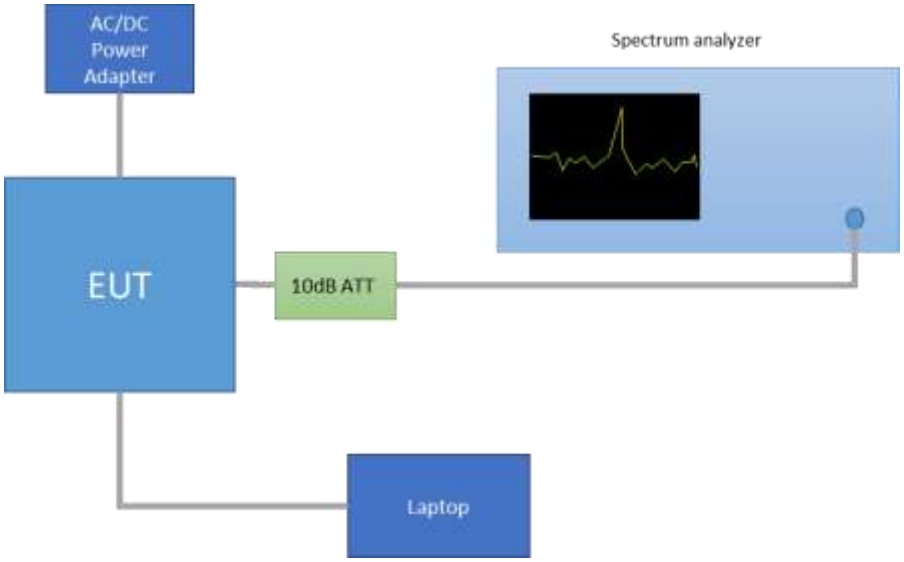
Annex A. Test & System Description

A.1 Measurement system

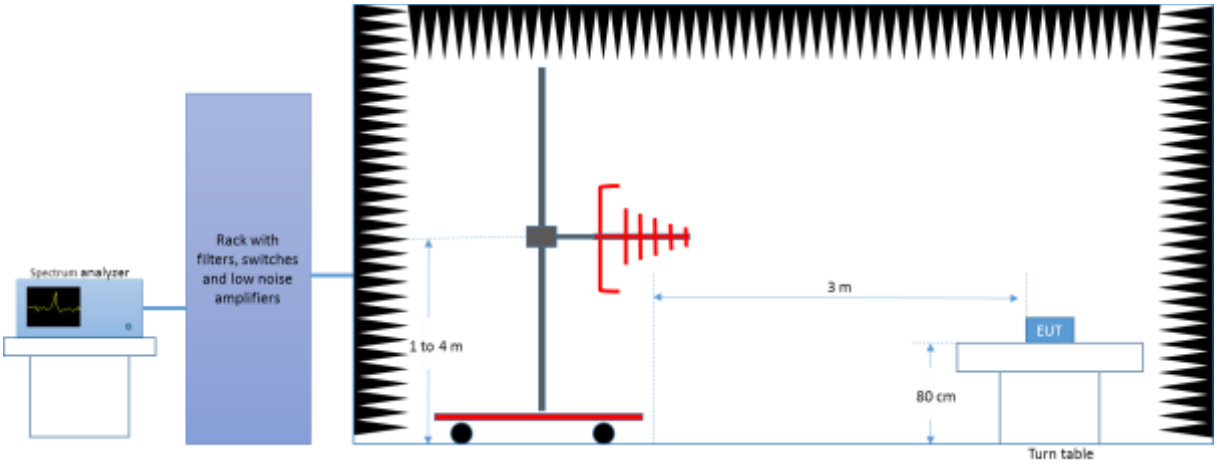
Measurements were performed using the following setups.

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.

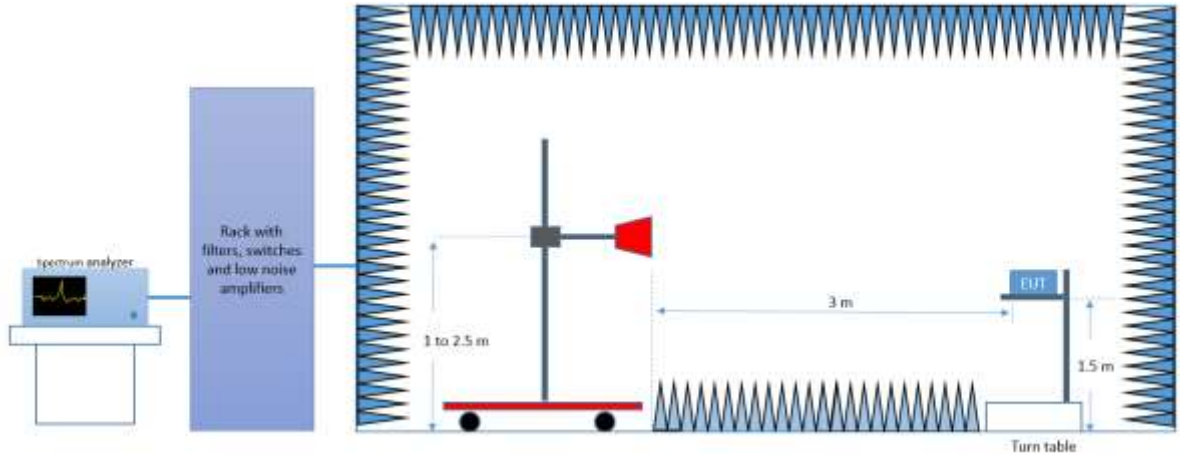
Conducted Setup



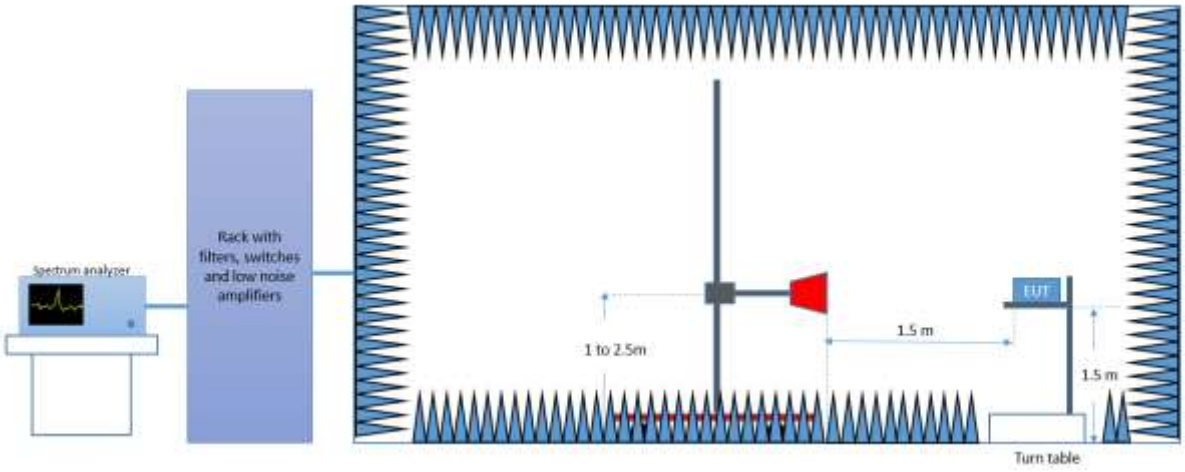
Radiated Setup < 1GHz



Radiated Setup 1GHz - 18GHz



Radiated Setup 18 GHz - 25 GHz



A.2 Test Equipment List

Conducted Setup

ID#	Device	Type/Model	Serial Number	Manufacturer	Cal. Date	Cal. Due Date
0316	Spectrum analyzer	FSV30	103309	Rohde & Schwarz	2015-03-20	2017-03-20

Radiated Setup

ID#	Device	Type/Model	Serial Number	Manufacturer	Cal. Date	Cal. Due Date
0133	Spectrum analyzer	FSV40	101358	Rohde & Schwarz	2016-04-15	2018-04-15
0258	Spectrum analyzer	FSV30	101318	Rohde & Schwarz	2016-04-27	2018-04-27
0310	Spectrum analyzer	FSV40	101425	Rohde & Schwarz	2015-03-25	2017-03-25
0137	Log antenna 30 MHz – 1 GHz	3142E	00156946	ETS Lindgren	2015-12-11	2017-12-11
0138	Horn antenna 1 GHz – 6.4 GHz	3117	00157734	ETS Lindgren	2016-03-14	2018-03-14
0343	Horn Antenna 6.4 GHz – 18 GHz	3117-PA	00201542	ETS Lindgren	2015-07-16	2017-07-16
0334	Horn Antenna 10 GHz – 40 GHz	3116C	00169308	ETS Lindgren	2015-07-15	2017-07-15
0139	Horn Antenna 18 GHz - 26.5 GHz	114514	00167100	ETS Lindgren	2014-08-14	2016-08-14
0135	Semi Anechoic chamber	FACT 3	5720	ETS Lindgren	2016-04-13	2016-05-28
0337	Full Anechoic chamber	RFD_FA_100	5996	ETS Lindgren	2015-09-08	2017-09-08
0329	Measurement Software	EMC32	1300.7027.00 (100401)	Rohde & Schwarz	N/A	N/A
N/A	Measurement Software	EMC32	012109650000013B (009977)	Rohde & Schwarz	N/A	N/A

A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the below table:

Measurement type	Uncertainty [±dB]
Conducted Power (power meter)	± 1.0
Conducted spurious emission	± 2.9
Radiated test < 1GHz	± 3.8
Radiated test 1GHz -26 GHz	± 4.7

Annex B. Test Results

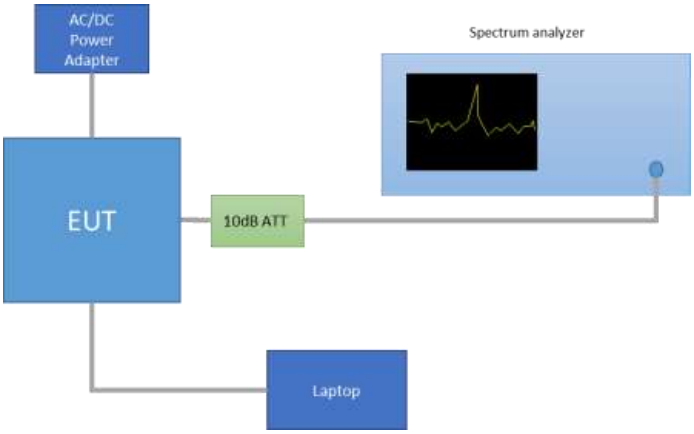
B.1 20dB Bandwidth and Carrier frequency separation

Test limits:

FCC part	RSS part	Limits
15.247 (a) (1)	RSS-247 Clause 5.1 (1) and (2)	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.

Test procedure:

The setup below was used to measure the 20dB Bandwidth and Carrier frequency separation. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



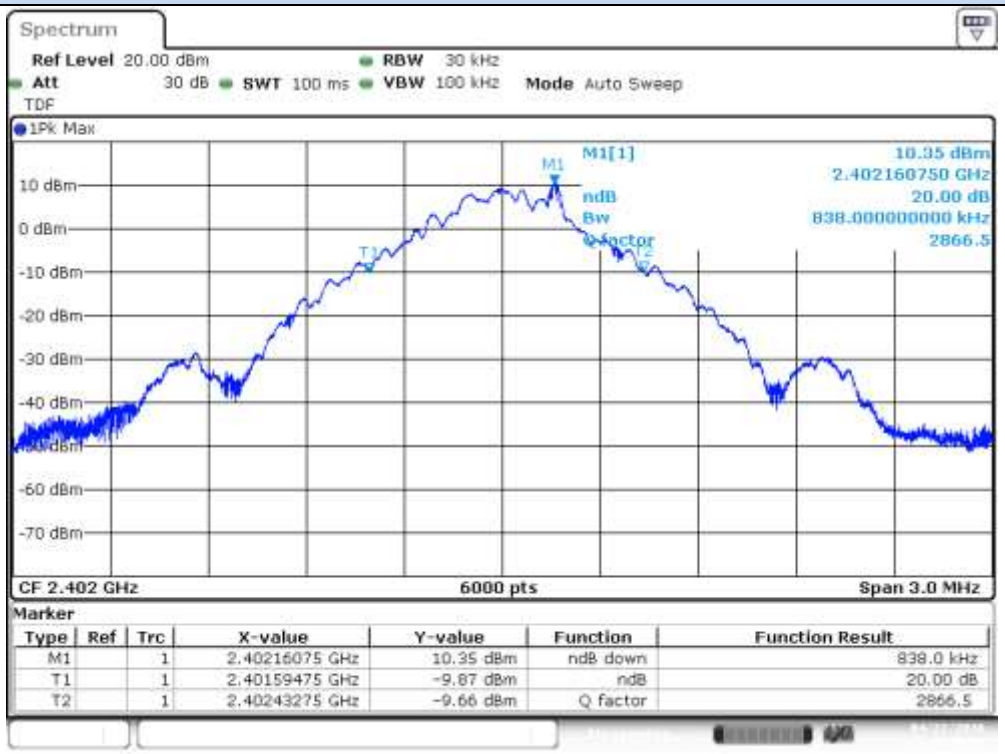
Results tables:

Mode	Channel Number	Frequency [MHz]	20dB BW [MHz]	Freq. Separation [kHz]
Basic Rate GFSK	0	2402	0.838	1000
	39	2441	0.839	
	78	2480	0.841	
EDR π/4-DQPSK	0	2402	1.423	1000
	39	2441	1.428	
	78	2480	1.430	
EDR 8-DPSK	0	2402	1.424	1000
	39	2441	1.423	
	78	2480	1.425	

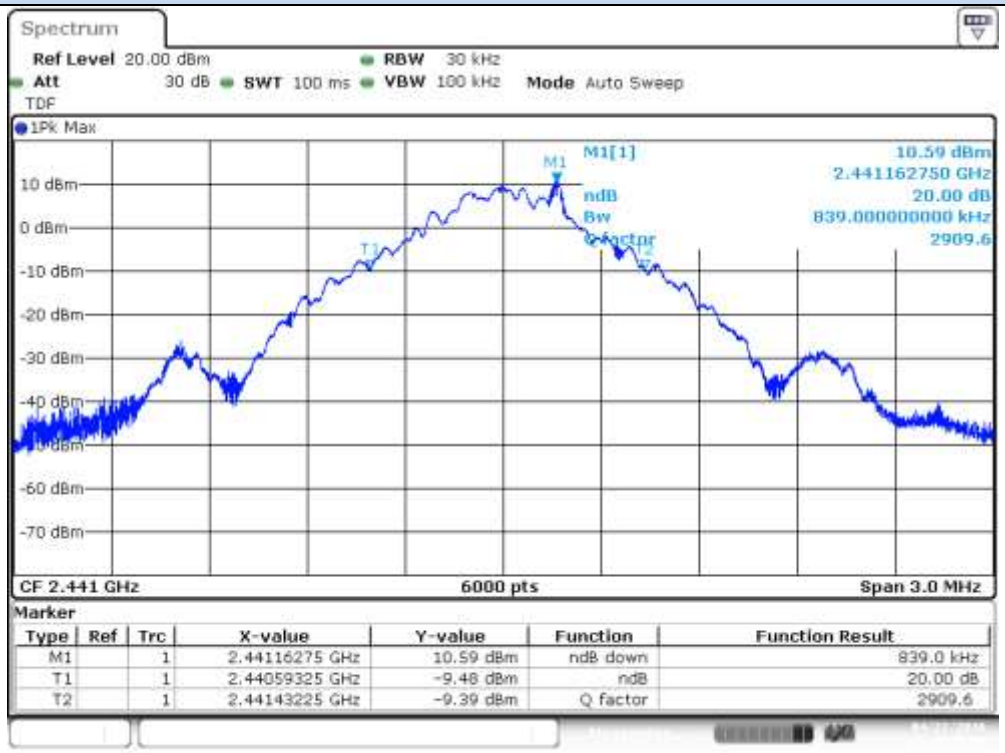
Results screenshot:

Basic Rate - GFSK

20dB BW - CH0

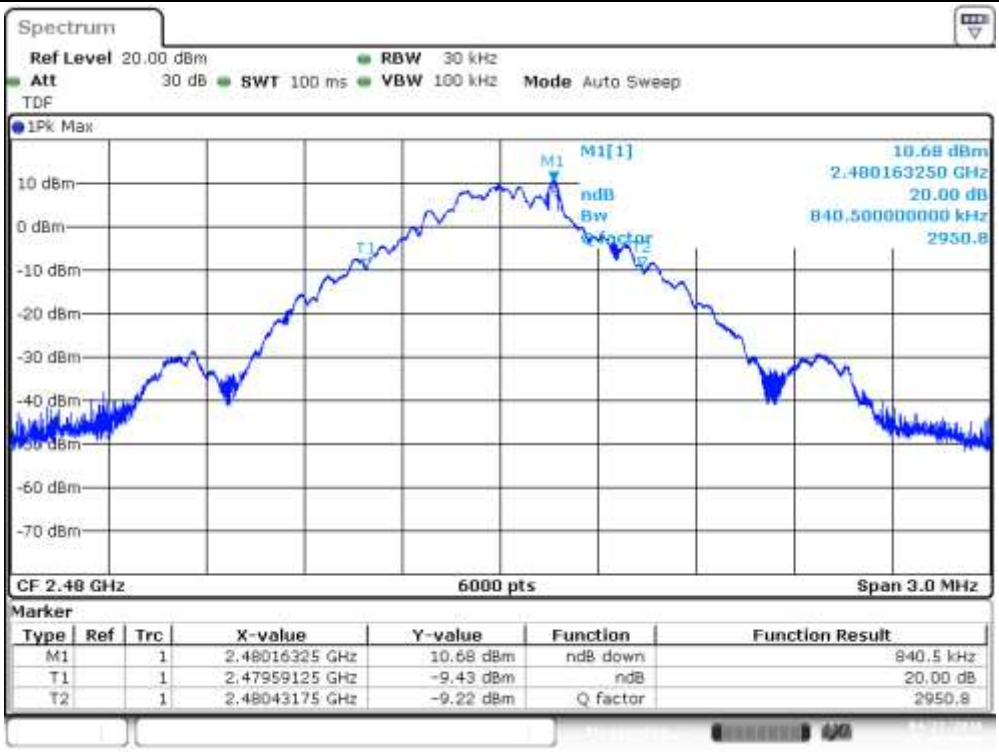


20dB BW - CH39

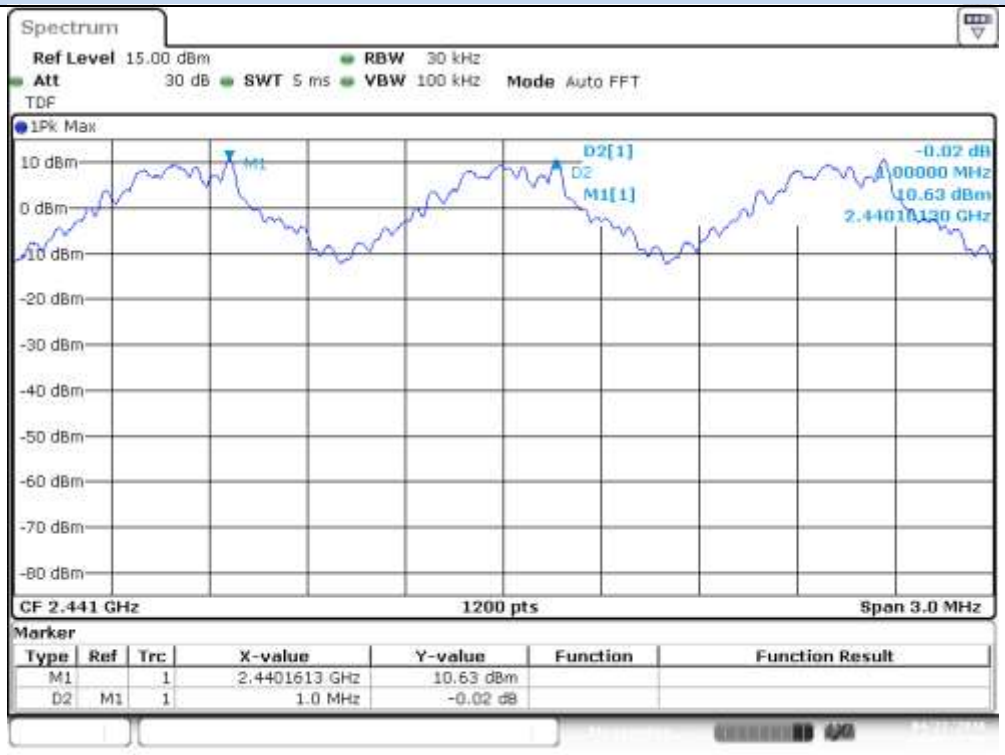


Date: 22.APR.2016 17:17:29

20dB BW - CH78



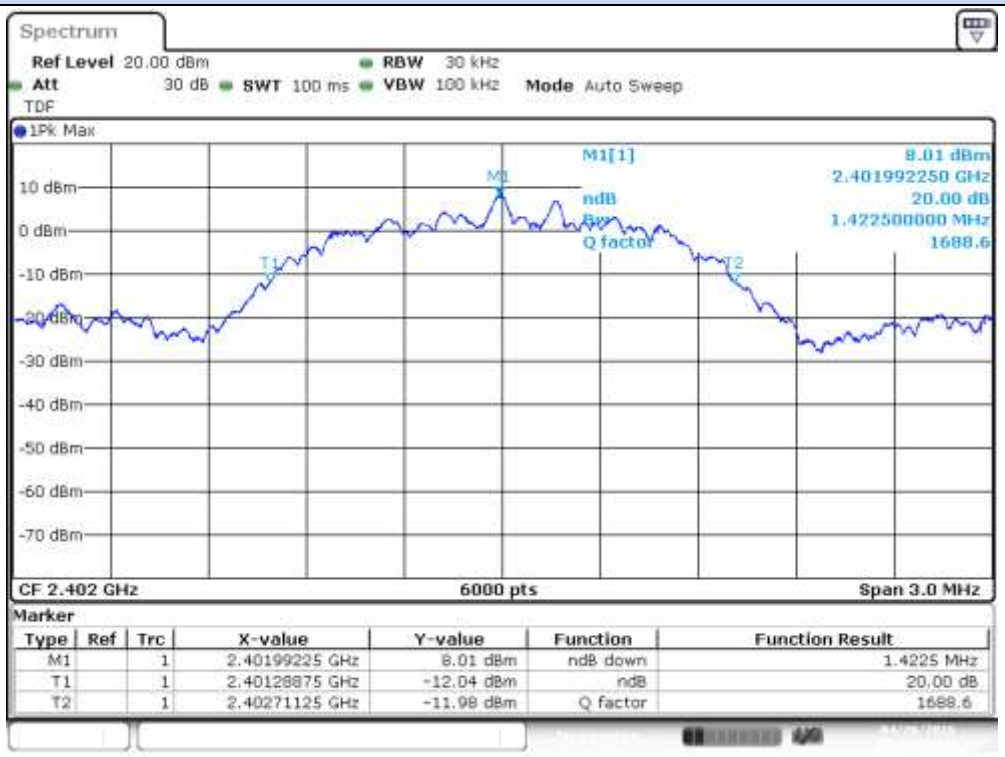
Freq. Separation



Date: 22APR2016 16:48:18

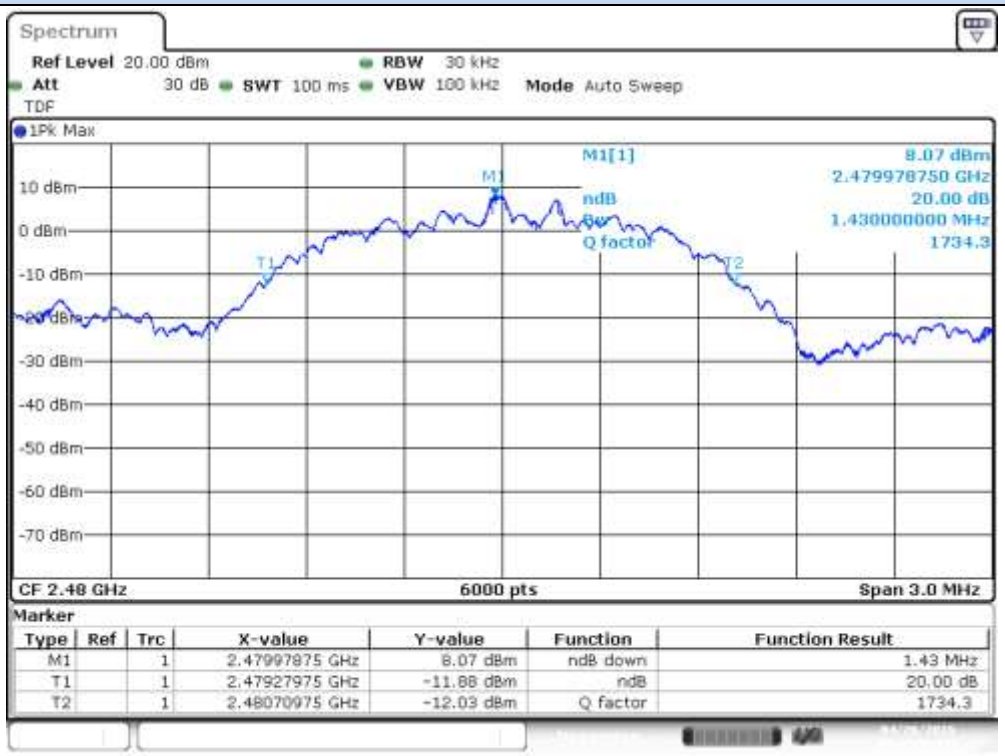
EDR – π/4-DQPSK

20dB BW - CH0



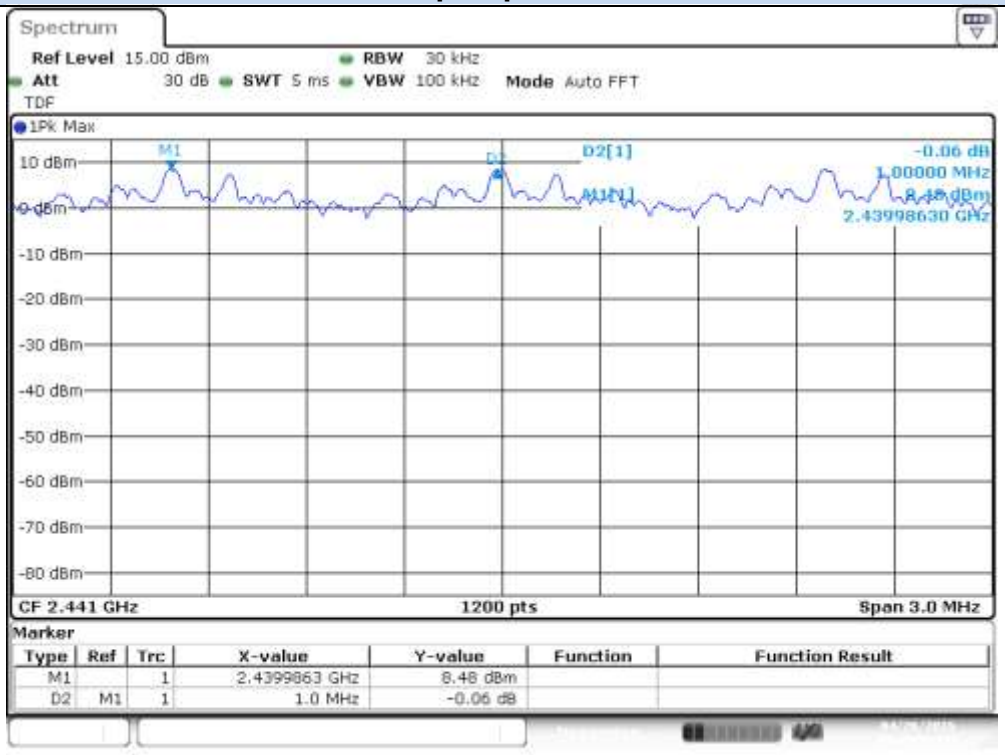
20dB BW - CH39

20dB BW - CH78



Date: 26.APR.2016 09:45:27

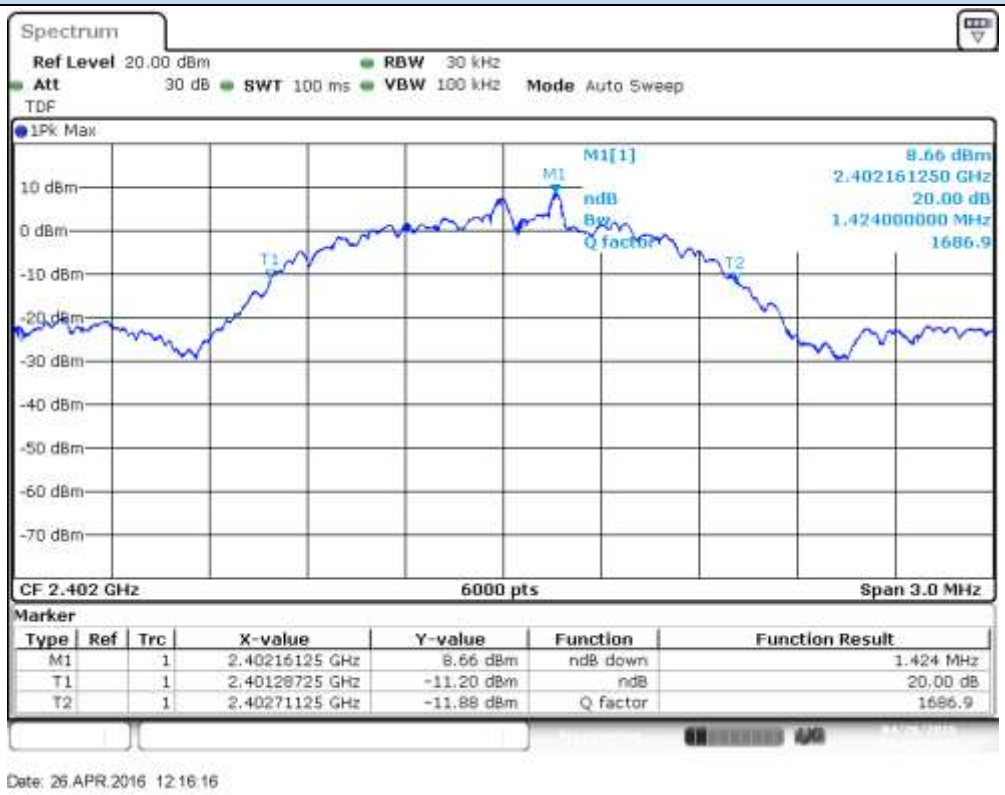
Freq. Separation



Date: 26.APR.2016 09:09:58

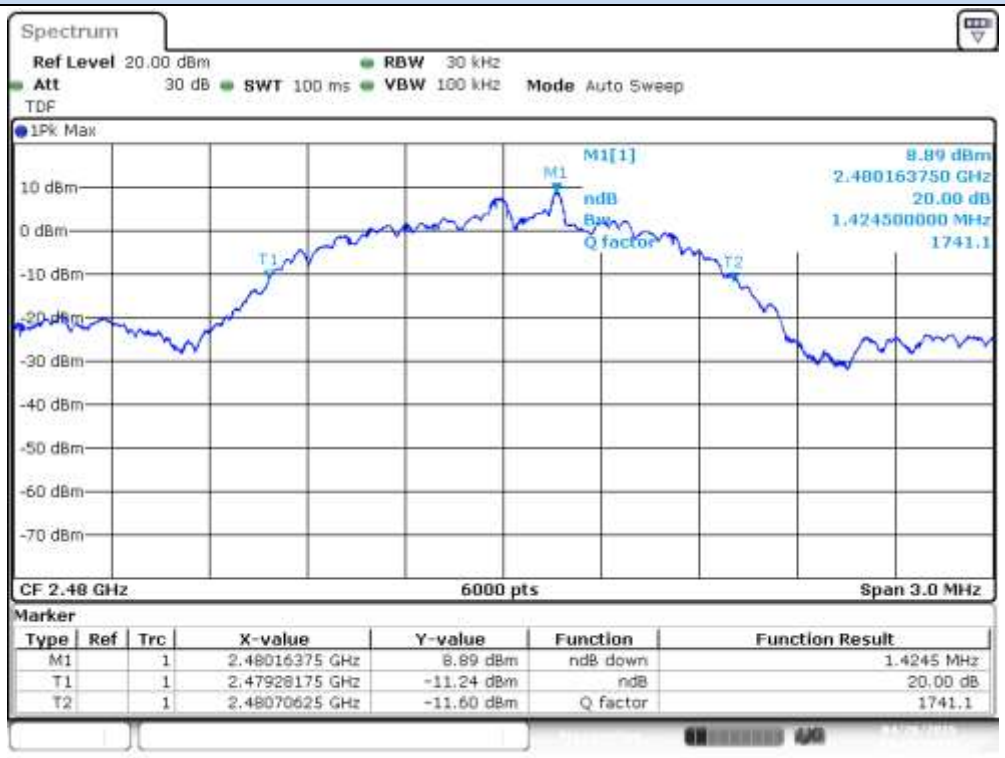
EDR – 8-DPSK

20dB BW - CH0



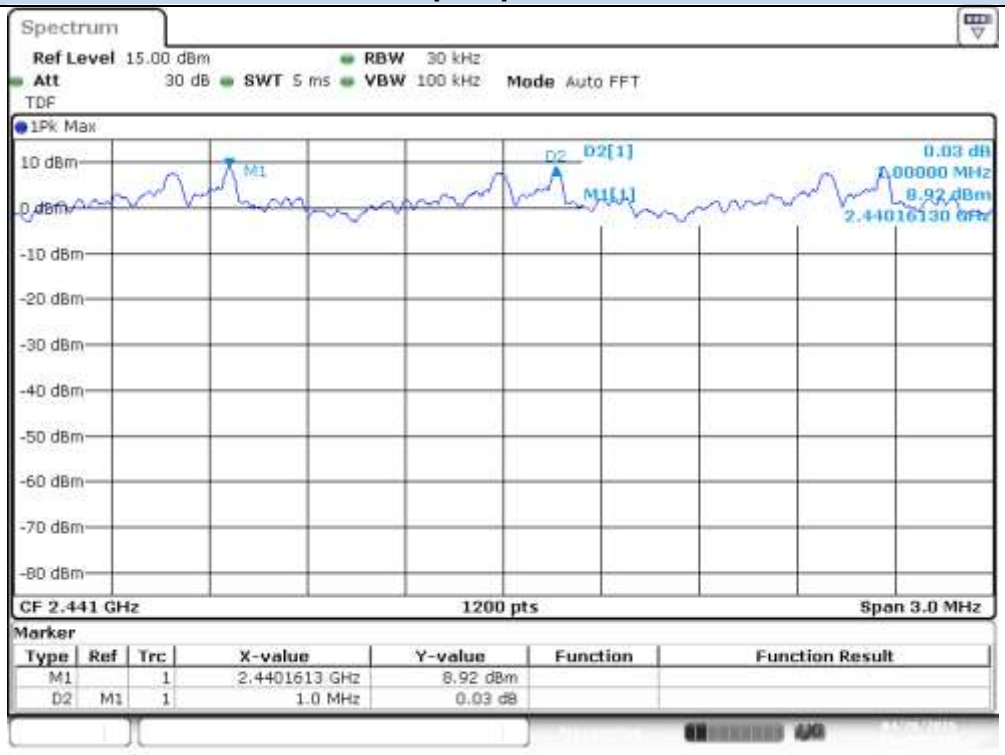
20dB BW - CH39

20dB BW - CH78



Date: 26.APR.2016 12:18:17

Freq. Separation



Date: 26.APR.2016 12:09:03

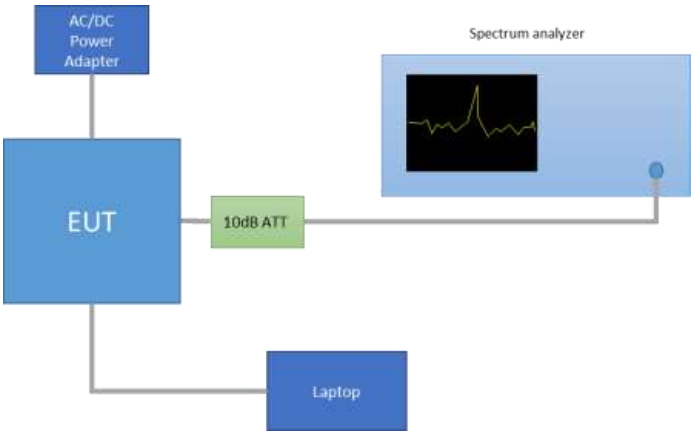
B.2 Number of hopping channels

Test limits:

FCC part	RSS part	Limits
15.247 (a) (1) (iii)	RSS-247 Clause 5.1 (4)	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.



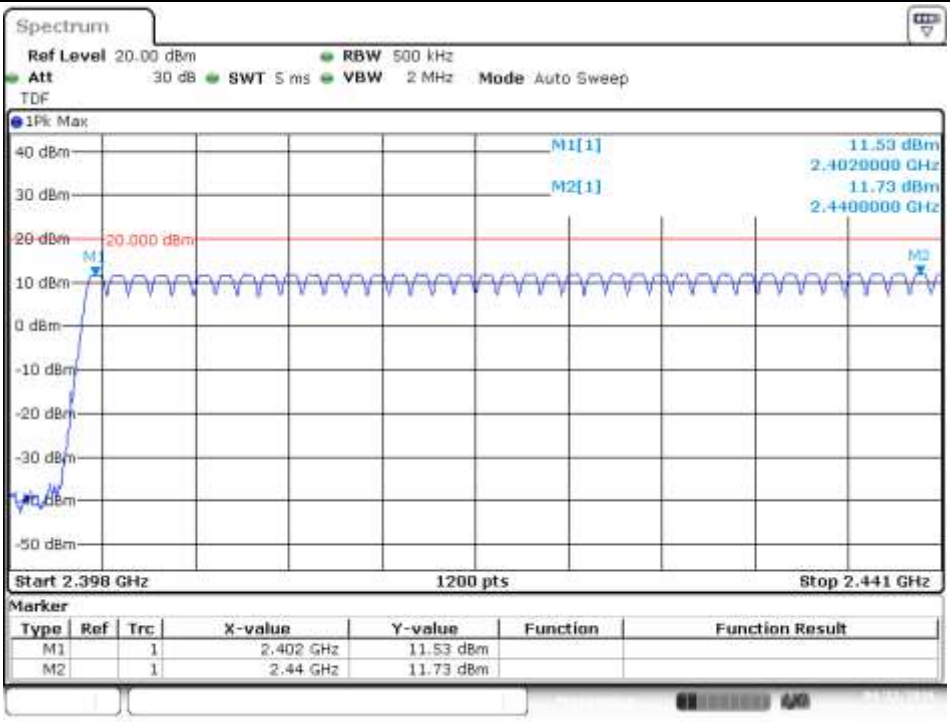
Results tables:

Mode	Number of hopping channels
Basic Rate GFSK	79
EDR π/4-DQPSK	79
EDR 8-DPSK	79

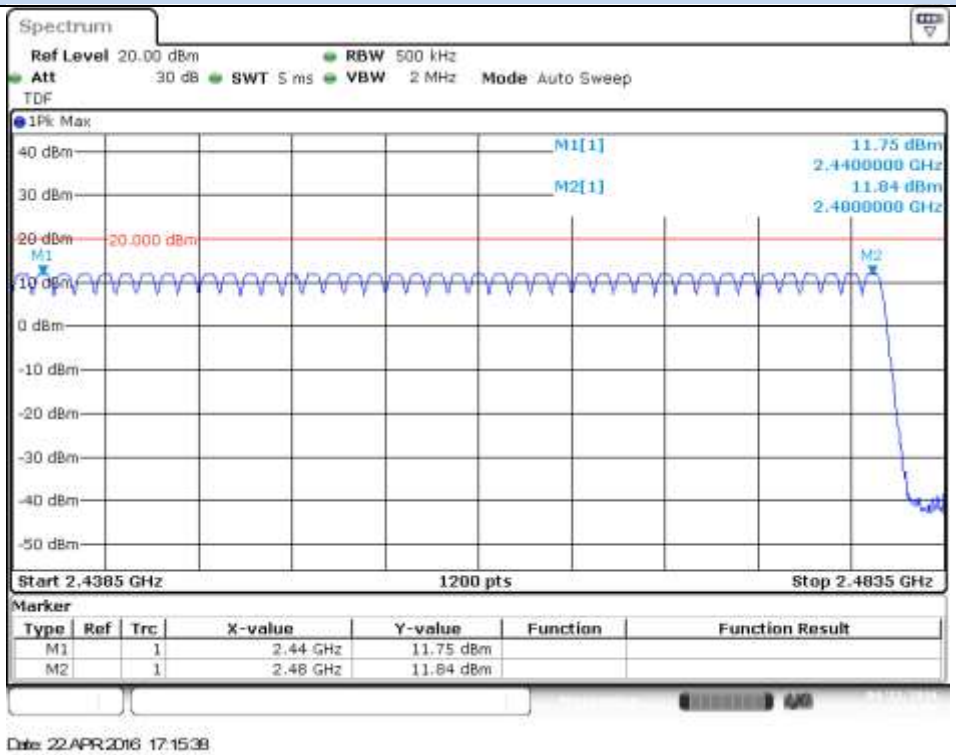
Results screenshot:

Number of hopping channels

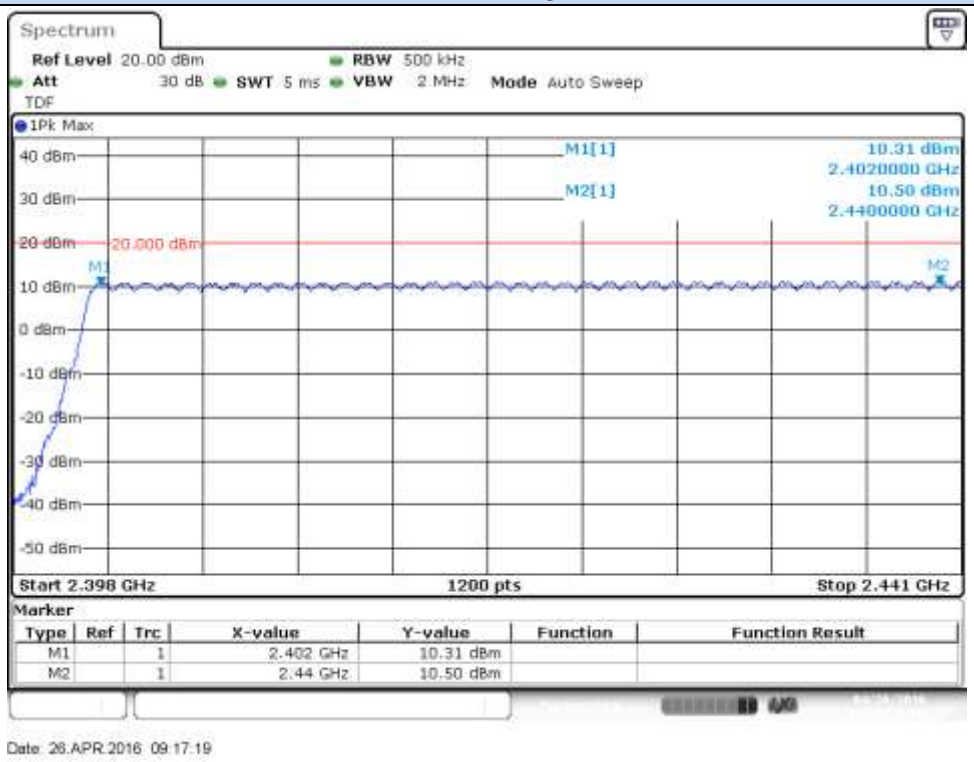
Basic Rate - GFSK



Basic Rate - GFSK

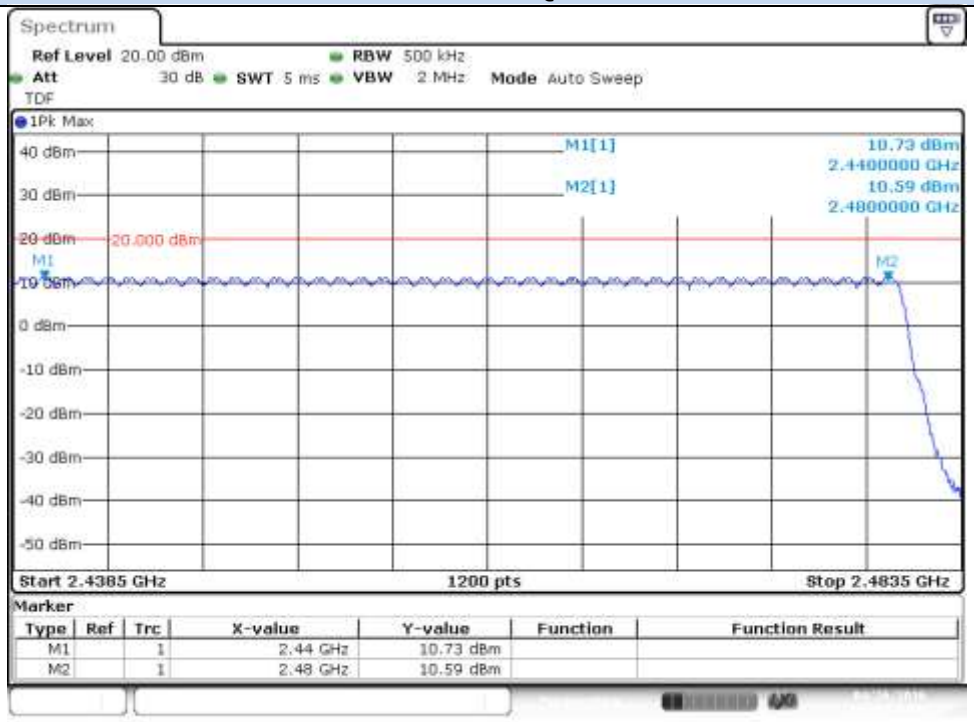


EDR – π/4-DQPSK



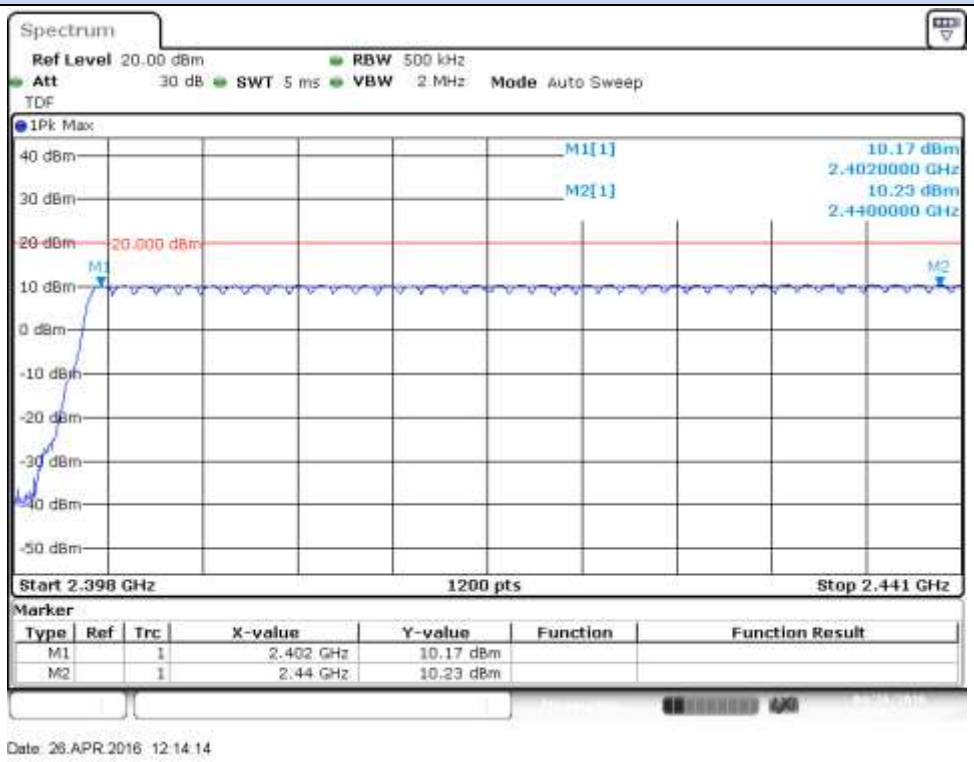
Date: 26.APR.2016 09:17:19

EDR – π/4-DQPSK

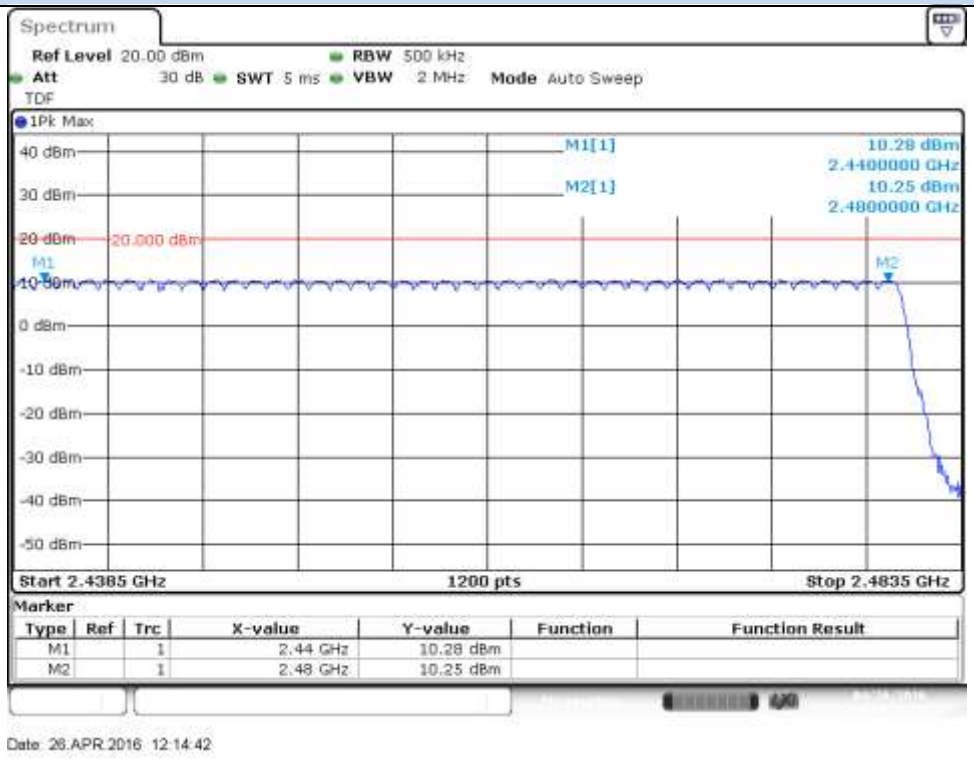


Date: 26.APR.2016 09:17:50

EDR – 8-DPSK



EDR – 8-DPSK



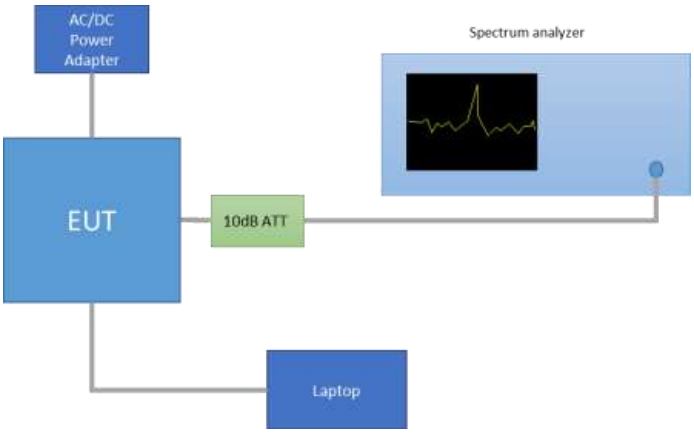
B.3 Time of Occupancy (Dwell Time)

Test limits:

FCC part	RSS part	Limits
15.247 (a) (1) (iii)	RSS-247 Clause 5.1 (4)	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 analyzer 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 625µs.
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 x 79 = 31.6 seconds, each channel appears 10.13 x 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 x 79 = 31.6 seconds, each channel appears 5.1 x 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 x 79 = 31.6 seconds, each channel appears 3.37 x 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.

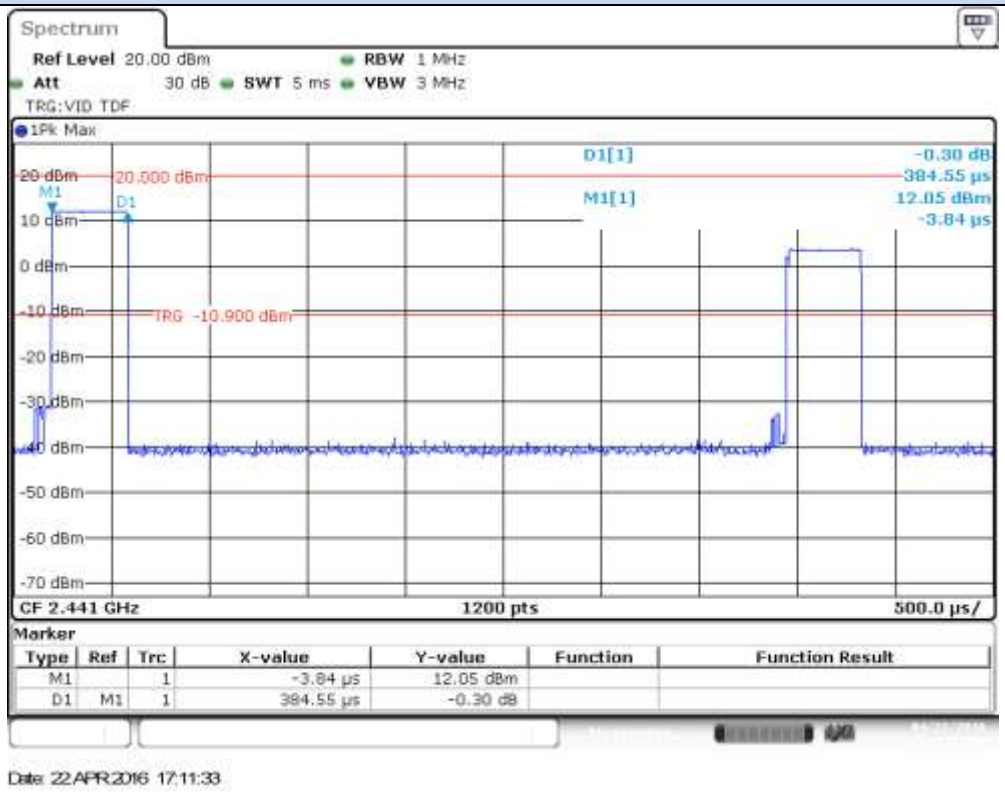
Results tables:

Mode	Packet Type	Times of appearance	Tx-time [ms]	Dwell Time [ms]
Basic Rate GFSK	DH1	320.11	0.385	123.10
	DH3	161.16	1.638	264.01
	DH5	106.49	2.888	307.50
EDR π/4-DQPSK	2-DH1	320.11	0.392	125.48
	2-DH3	161.16	1.643	264.79
	2-DH5	106.49	2.890	307.75
EDR 8-DPSK	3-DH1	320.11	0.392	125.48
	3-DH3	161.16	1.643	264.79
	3-DH5	106.49	2.890	307.75

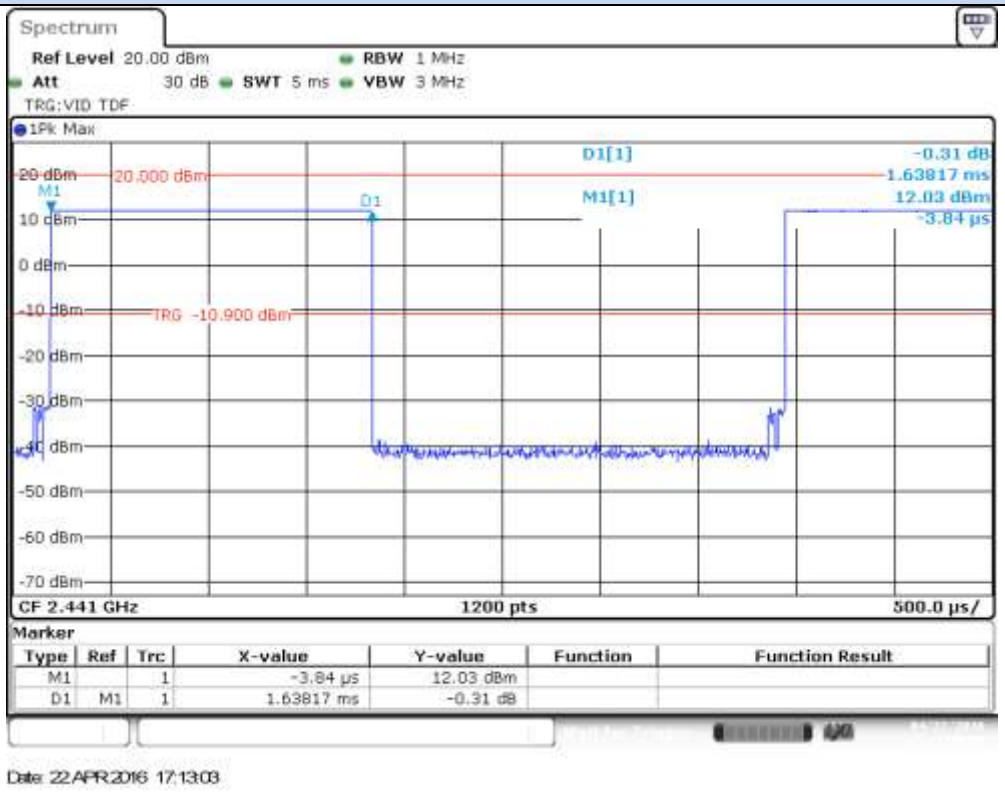
Results Screenshot:

BDR – GFSK

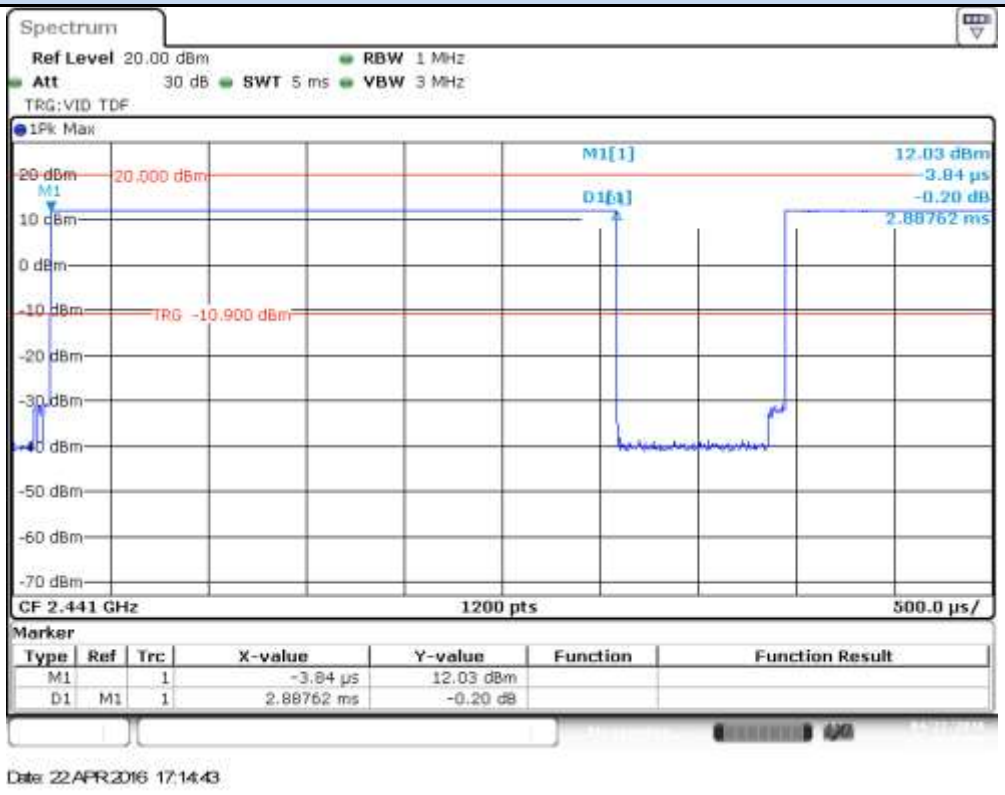
DH1 Tx-time



DH3 Tx-time

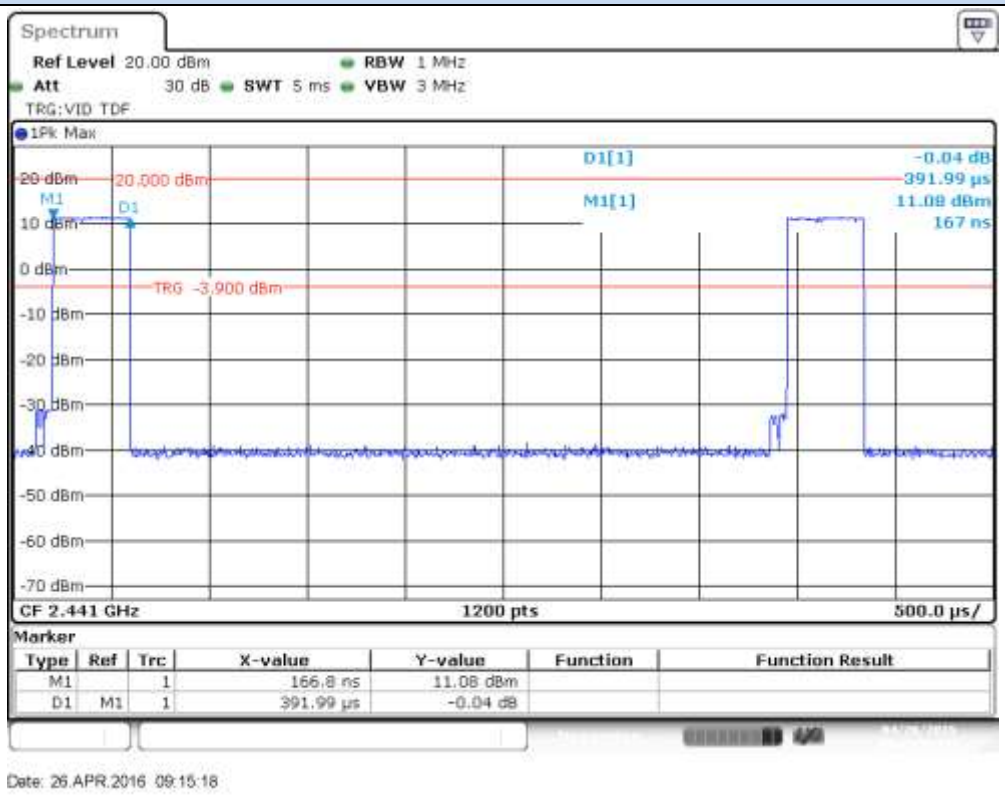


DH5 Tx-time

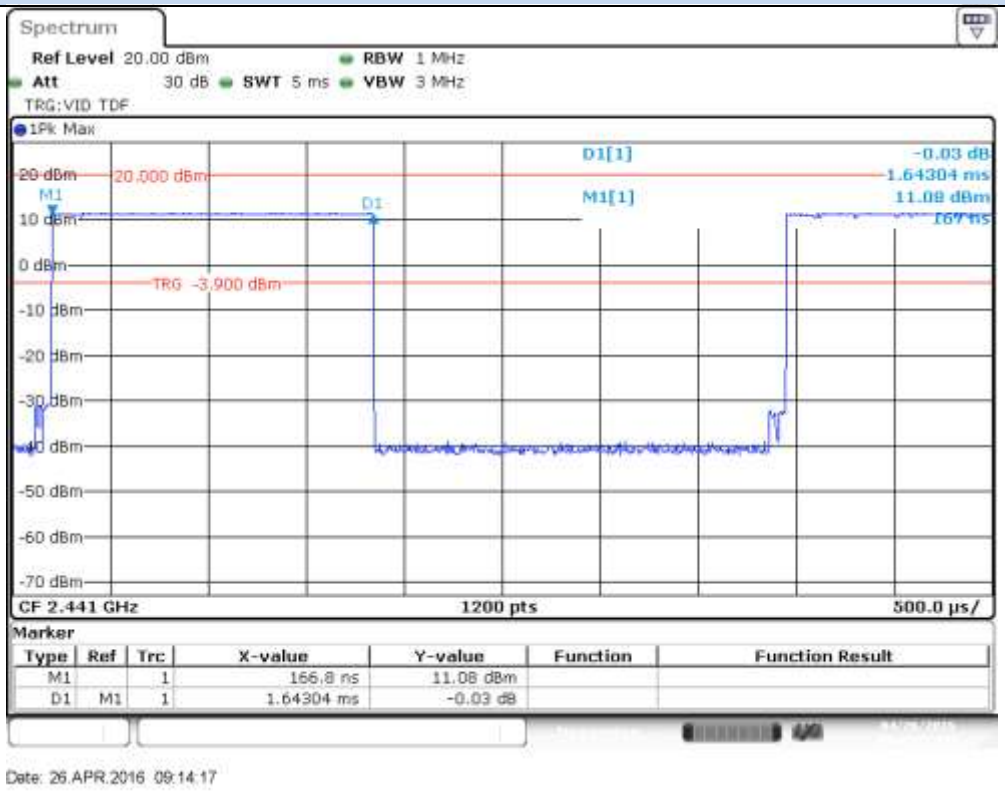


EDR – π/4-DQPSK

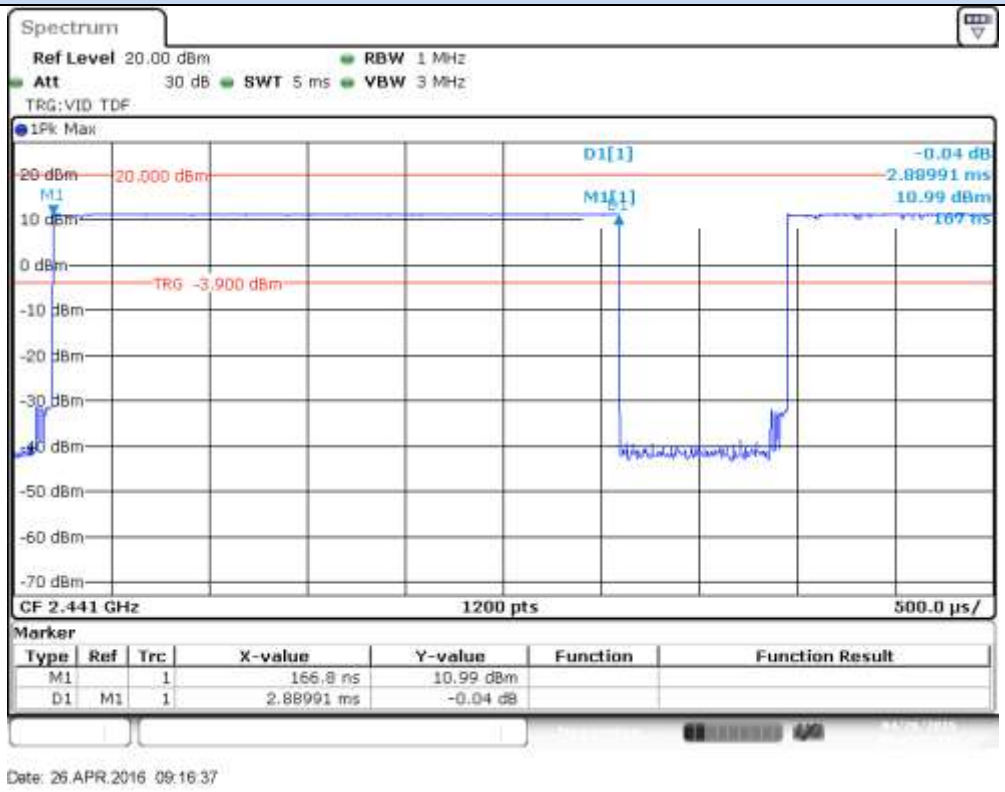
2-DH1 Tx-time



2-DH3 Tx-time

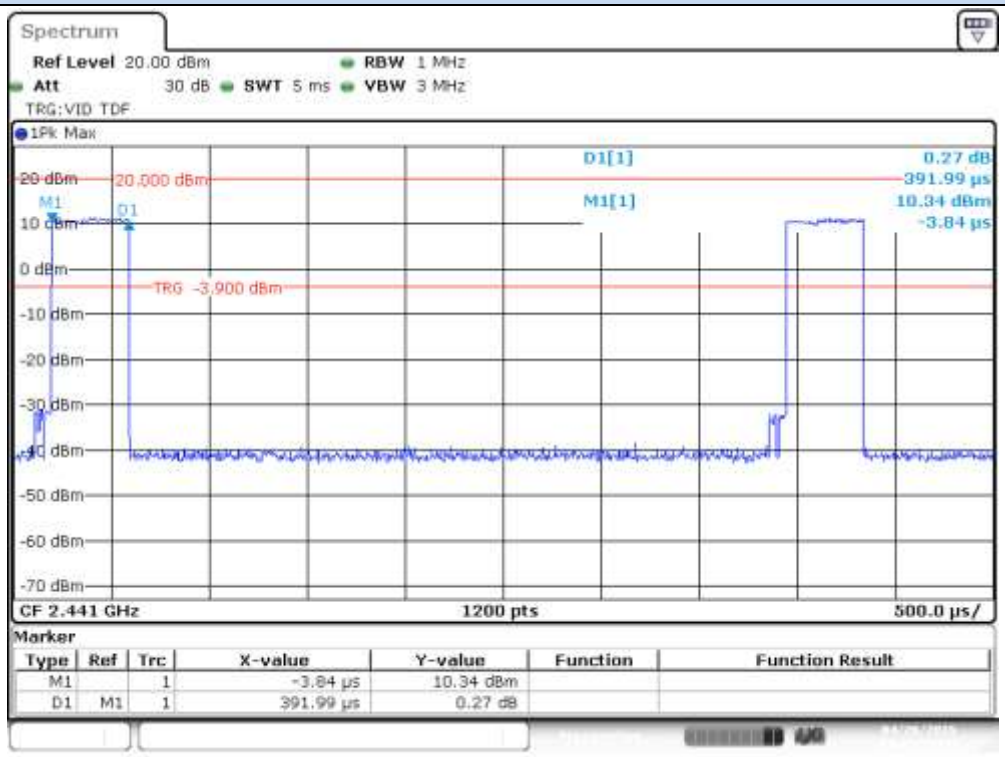


2-DH5 Tx-time



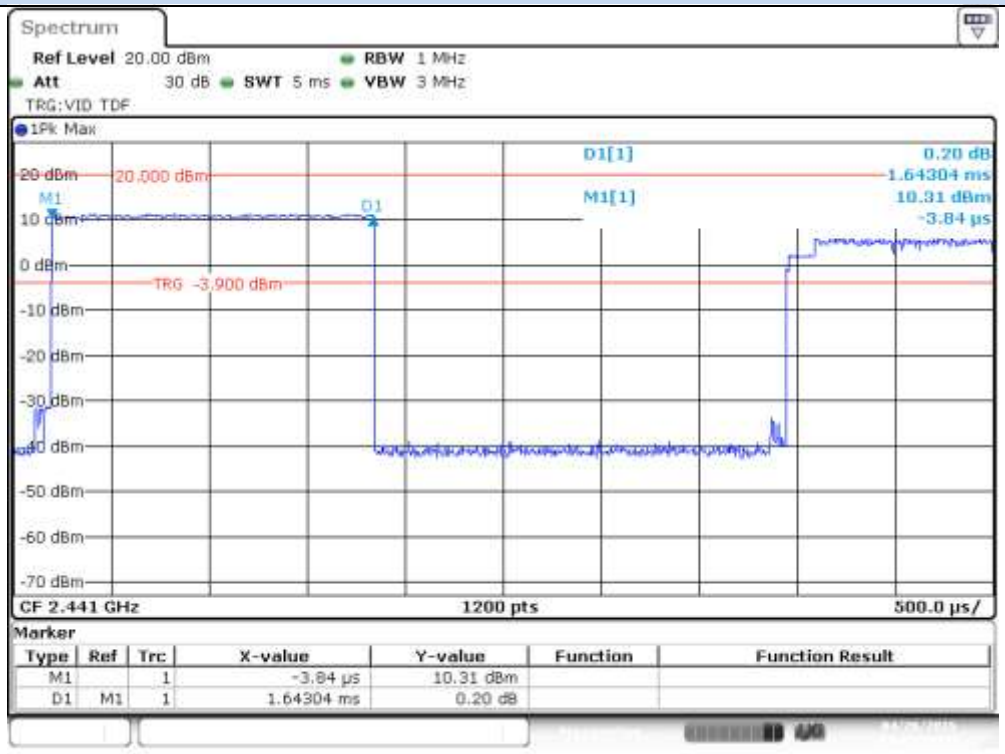
EDR – 8-DPSK

3-DH1 Tx-time



Date: 26.APR.2016 12:12:58

3-DH3 Tx-time



Date: 26.APR.2016 12:12:19

3-DH5 Tx-time

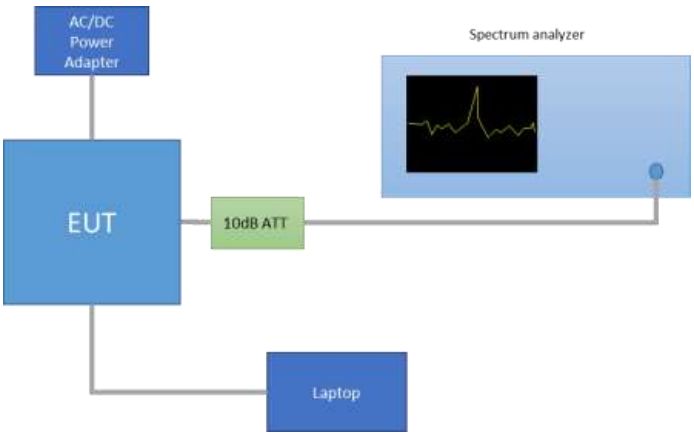
B.4 Maximum Peak Output Power and antenna gain

Test limits:

FCC part	RSS part	Limits
15.247 (b) (1)	RSS-247 Clause 5.4 (2)	(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 analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



The declared maximum antenna gain is 3dBi.

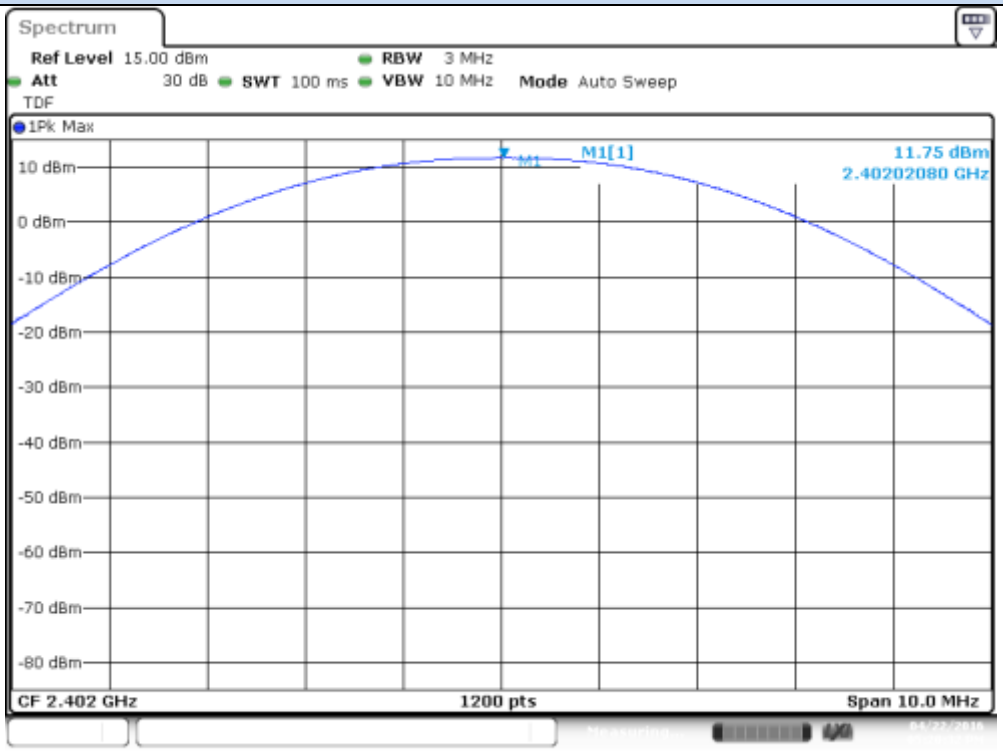
Results tables:

Mode	Channel Number	Frequency [MHz]	Peak Power [dBm]	Peak Power [mW]
Basic Rate GFSK	0	2402	11.75	14.96
	39	2441	12.00	15.85
	78	2480	12.06	16.07
EDR π/4-DQPSK	0	2402	11.45	13.96
	39	2441	11.69	14.76
	78	2480	11.75	14.96
EDR 8-DPSK	0	2402	11.16	13.06
	39	2441	11.42	13.87
	78	2480	11.44	13.93

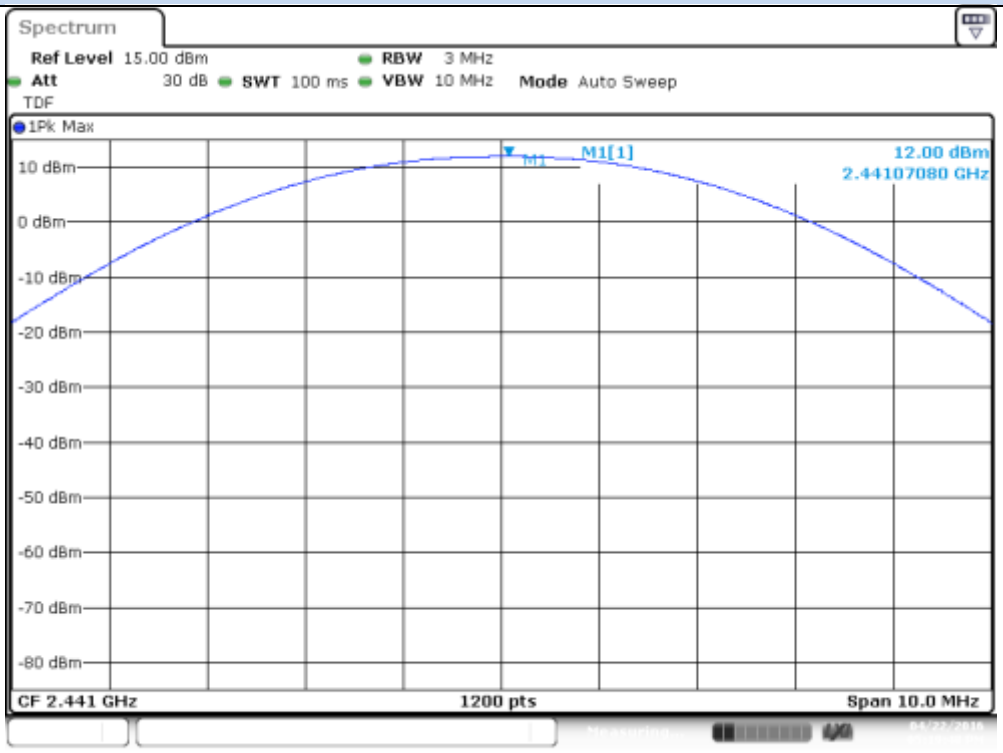
Results Screenshot:

Basic Rate - GFSK

Peak Power - CH0

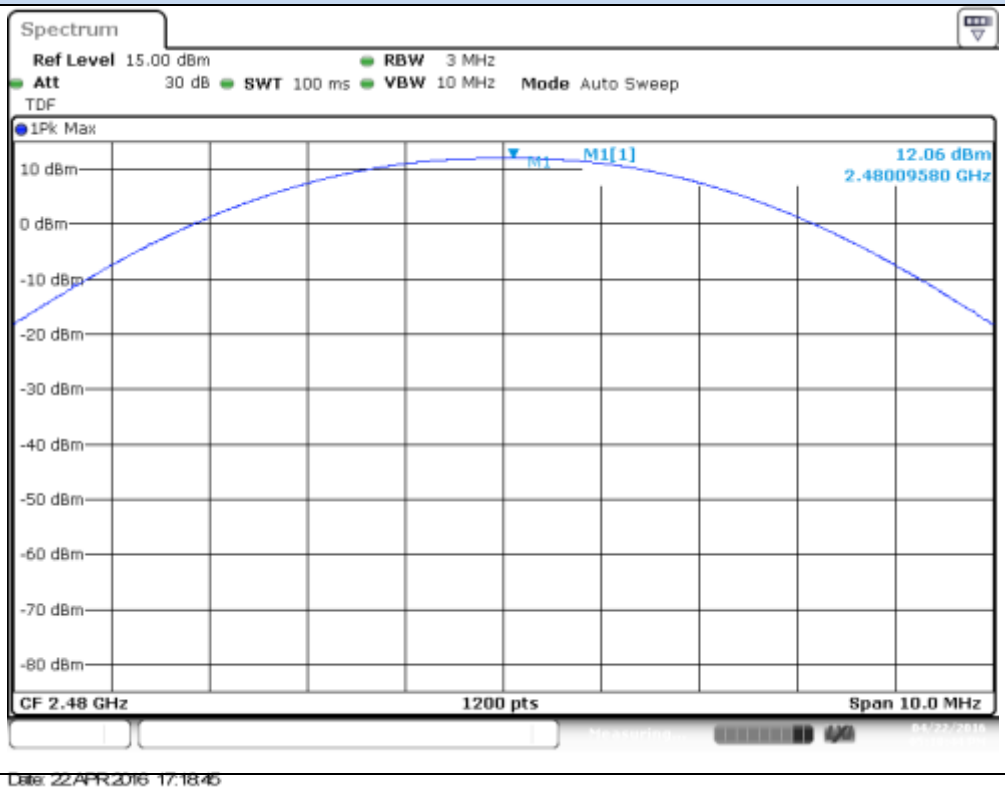


Peak Power - CH39



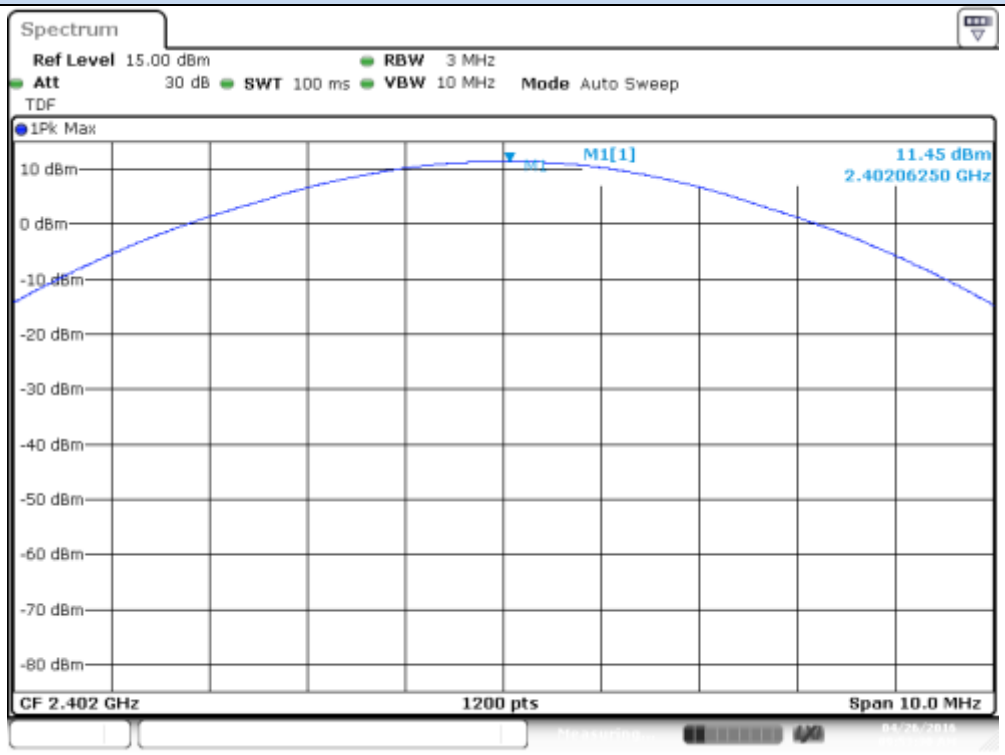
Date: 22.APR.2016 17:19:48

Peak Power - CH78



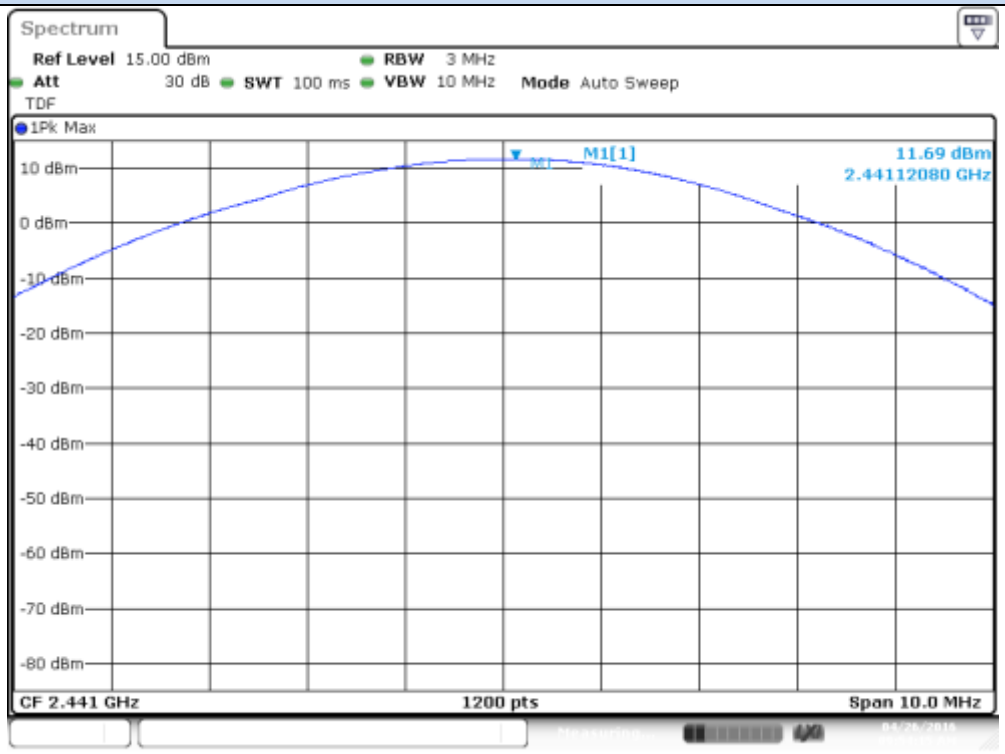
EDR – π/4-DQPSK

Peak Power - CH0



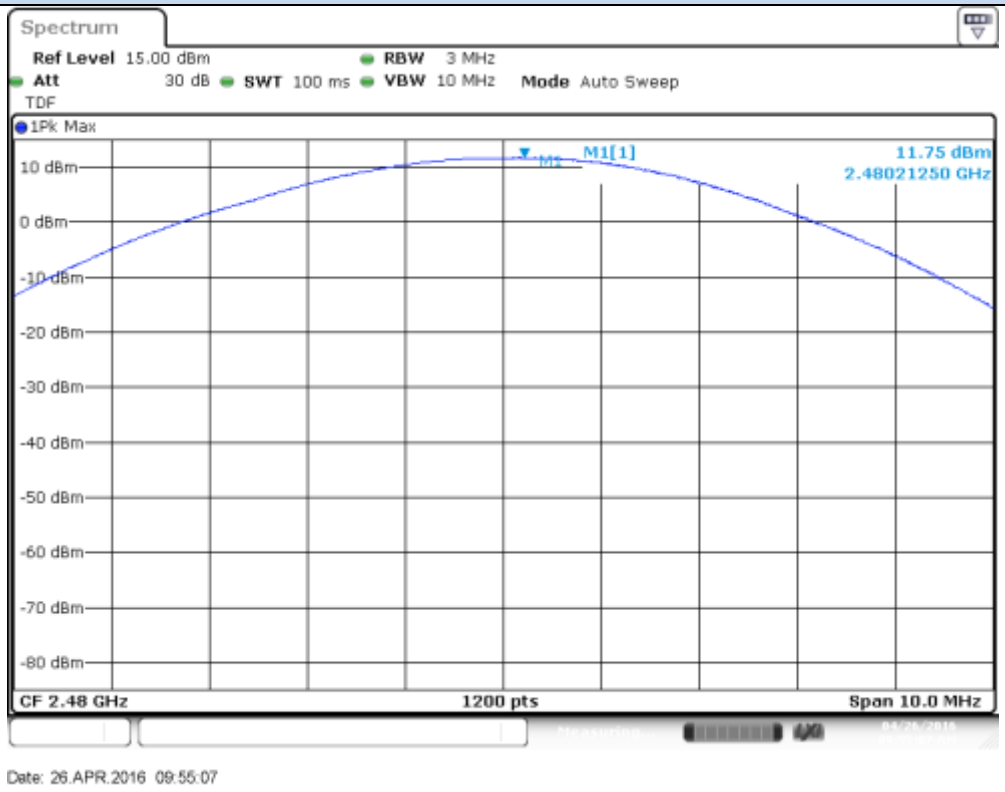
Date: 26.APR.2016 09:53:29

Peak Power - CH39



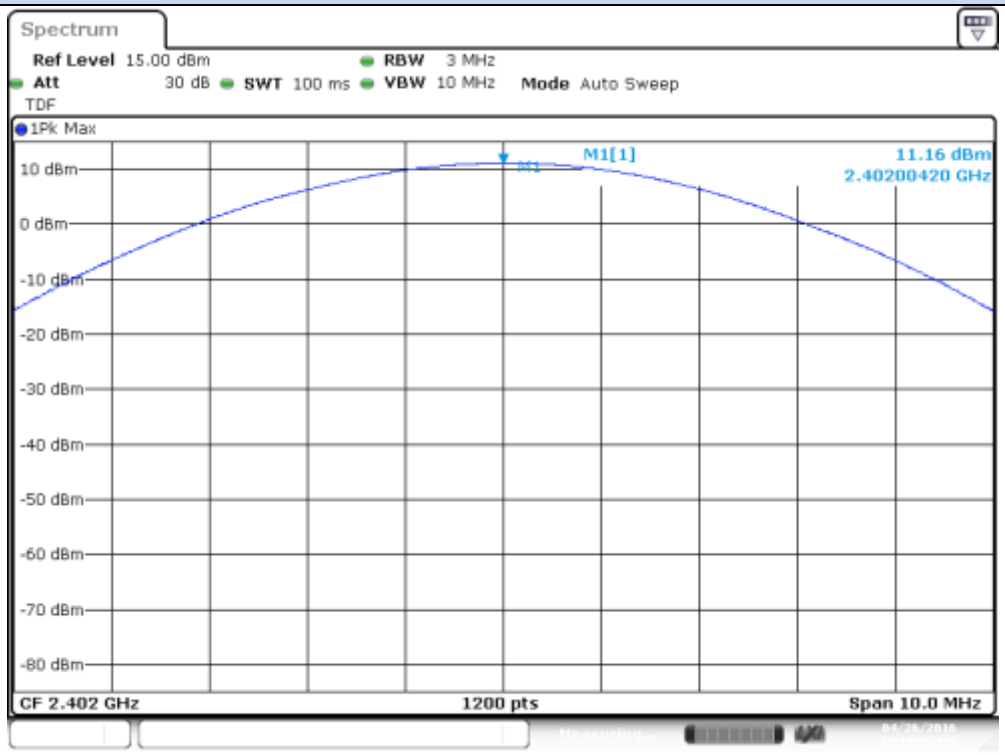
Date: 26.APR.2016 09:54:16

Peak Power - CH78



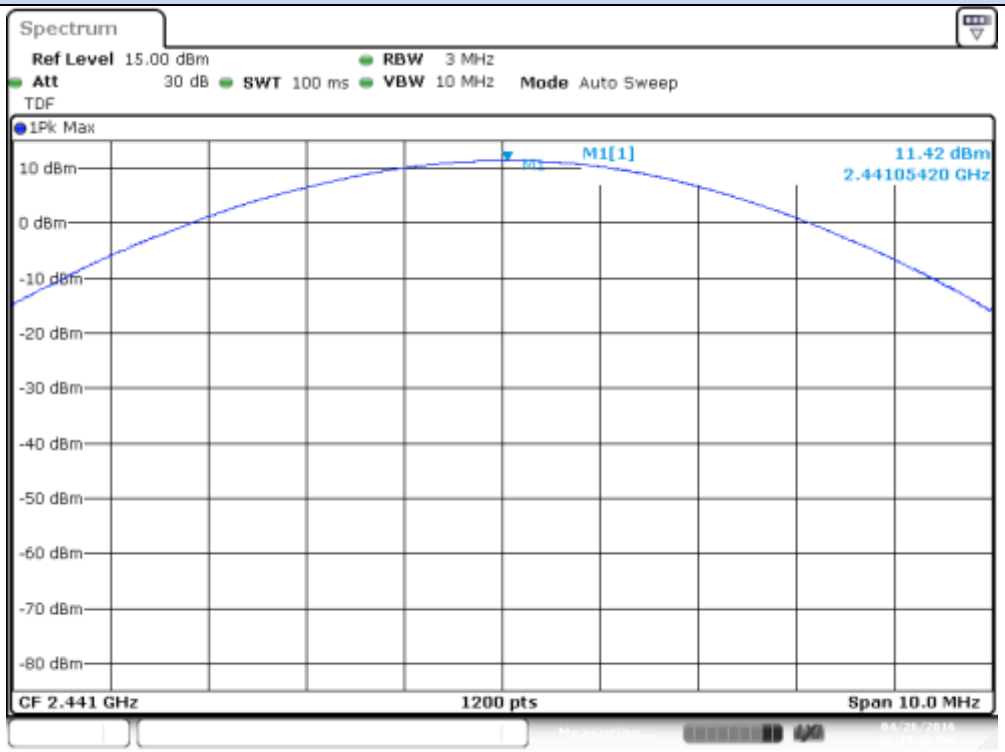
EDR – 8-DPSK

Peak Power - CH0



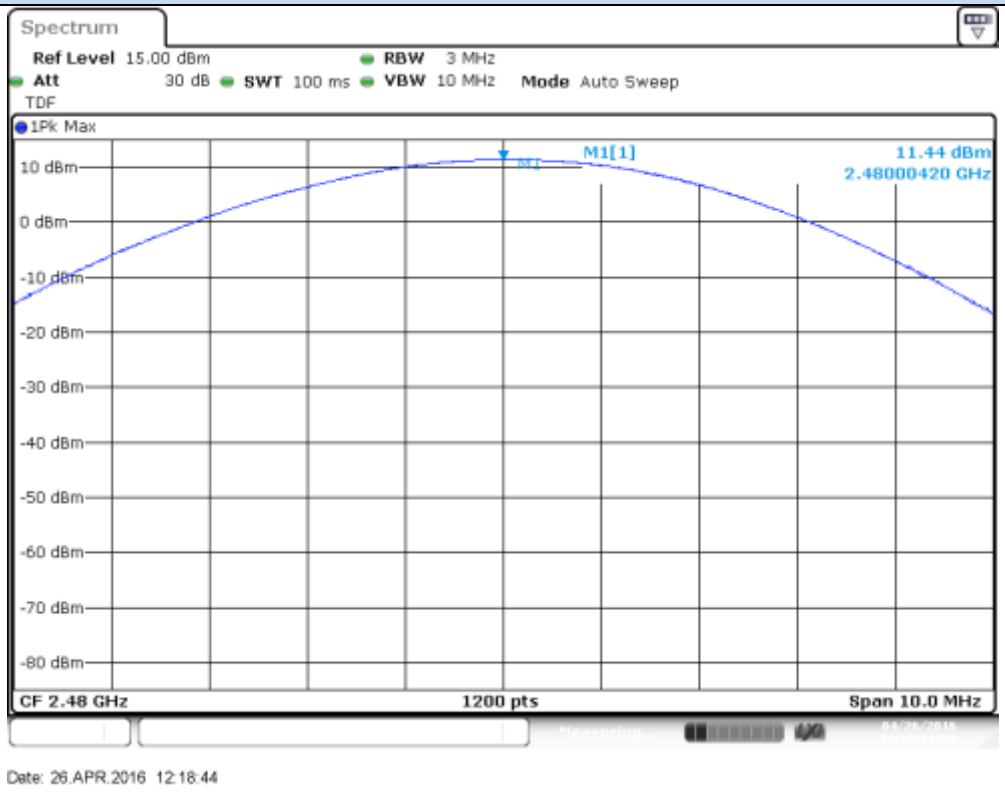
Date: 26.APR.2016 12:19:52

Peak Power - CH39



Date: 26.APR.2016 12:19:12

Peak Power - CH78



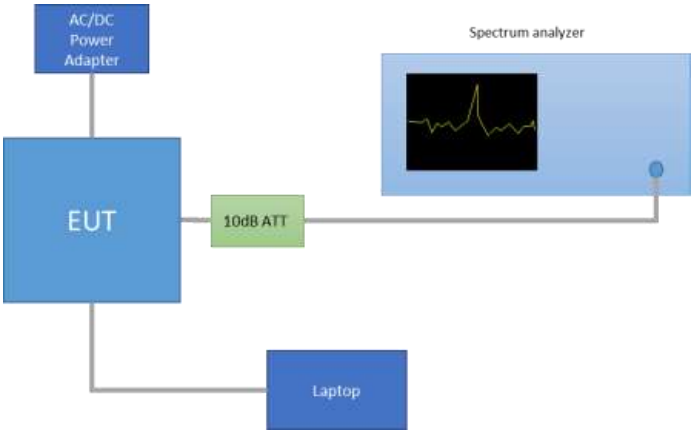
B.5 Out-of-band emissions (conducted)

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:

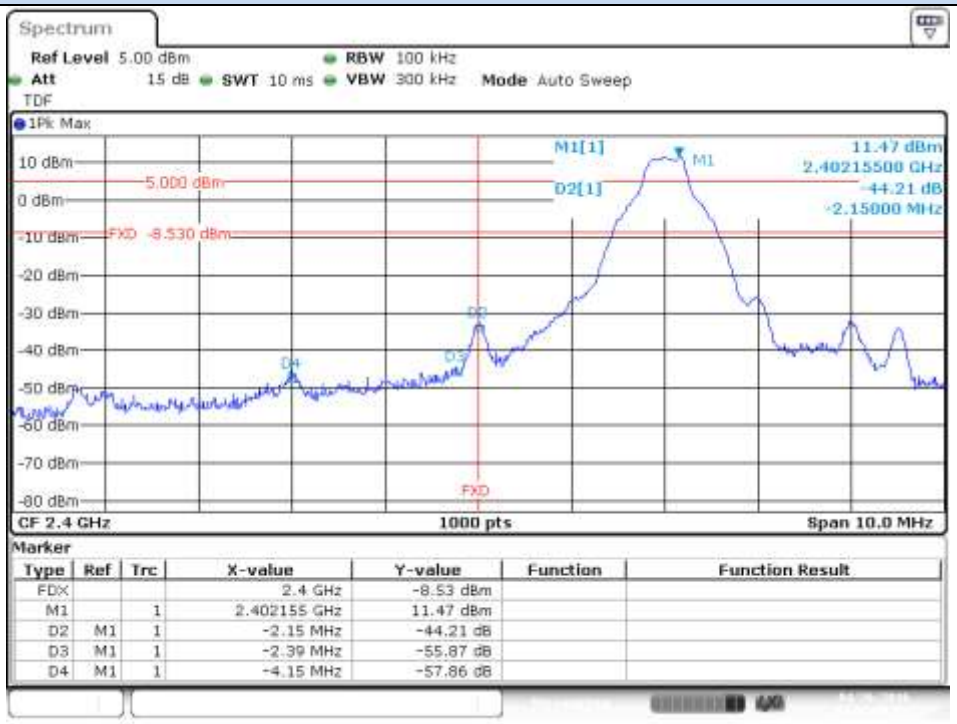
The setup below was used to measure the out-of-band emissions (conducted). The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



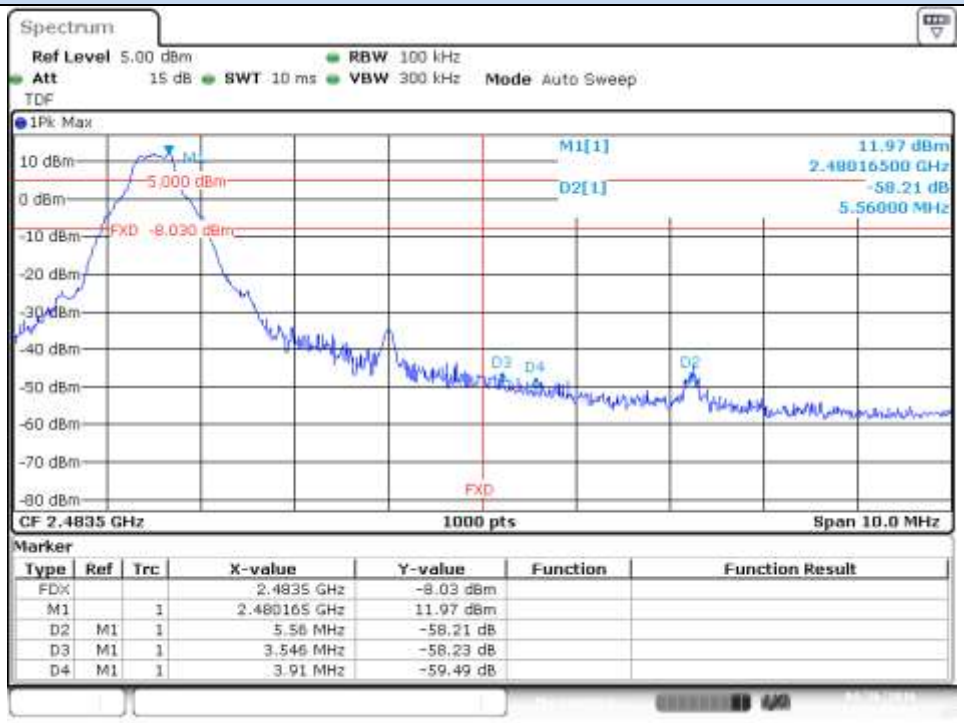
Band Edge results Screenshot:

Basic Rate - GFSK

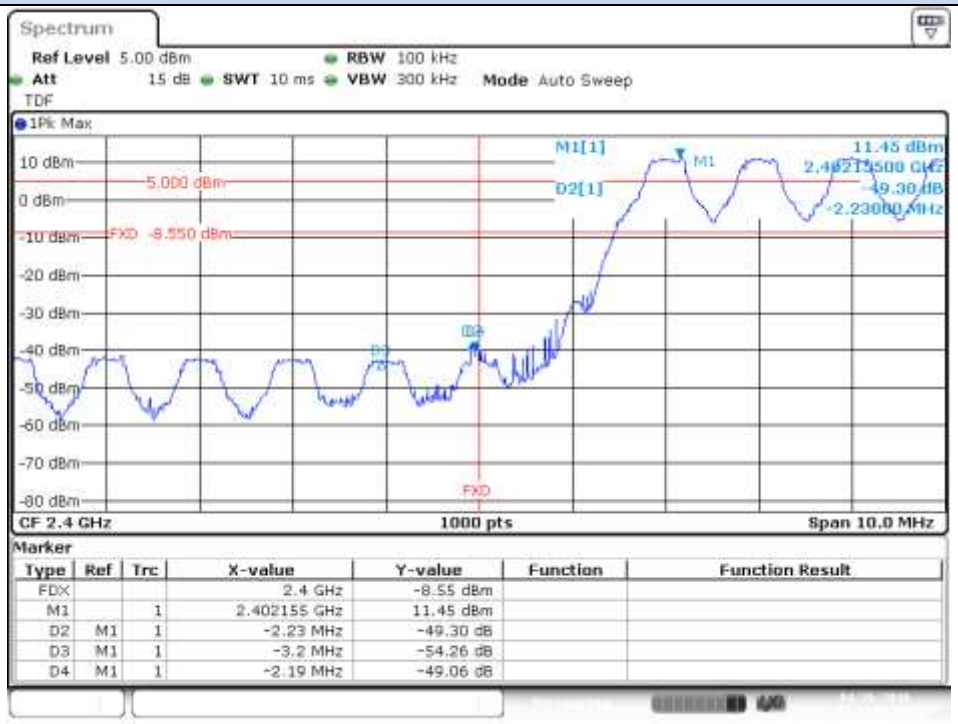
BE Low Freq Section - CH0



BE High Freq Section - CH78

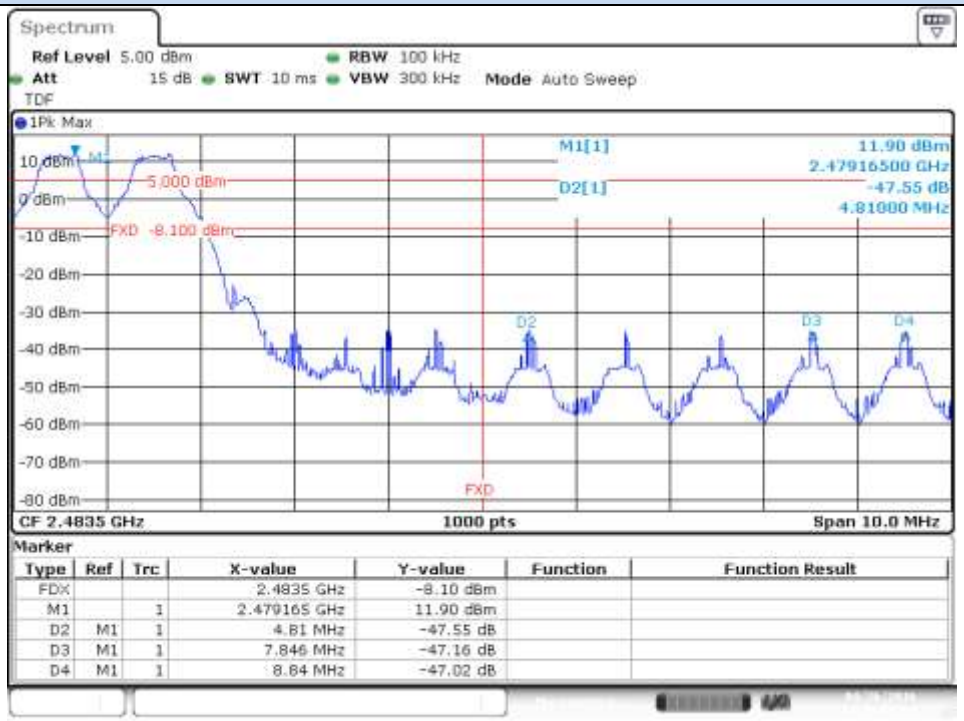


BE Low Freq Section - Hopping



Date: 26.APR.2016 13:42:51

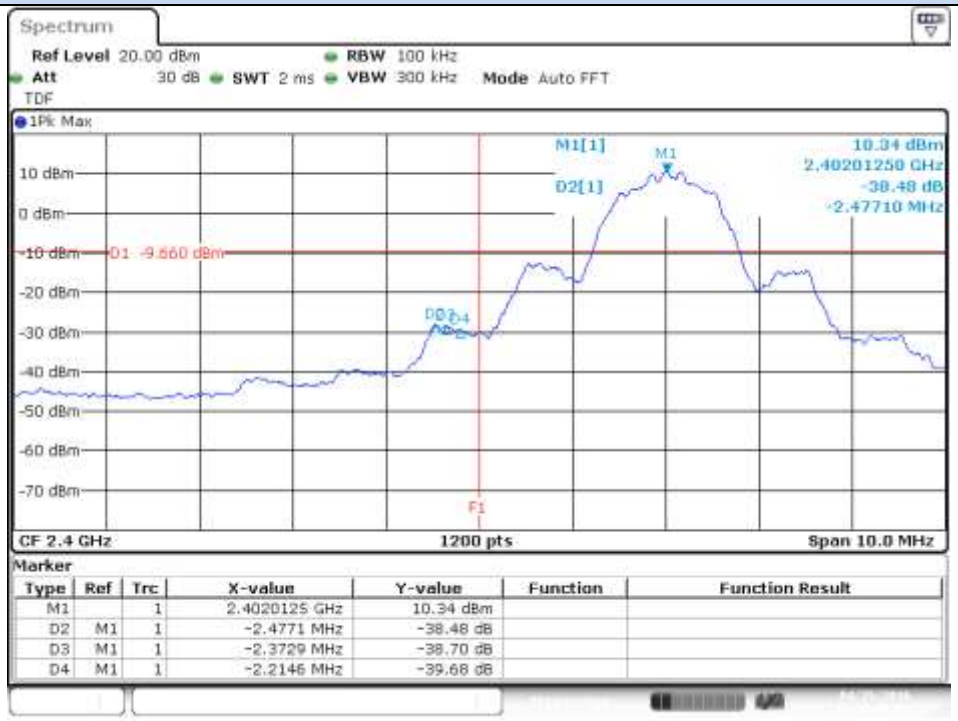
BE High Freq Section - Hopping



Date: 26.APR.2016 13:49:14

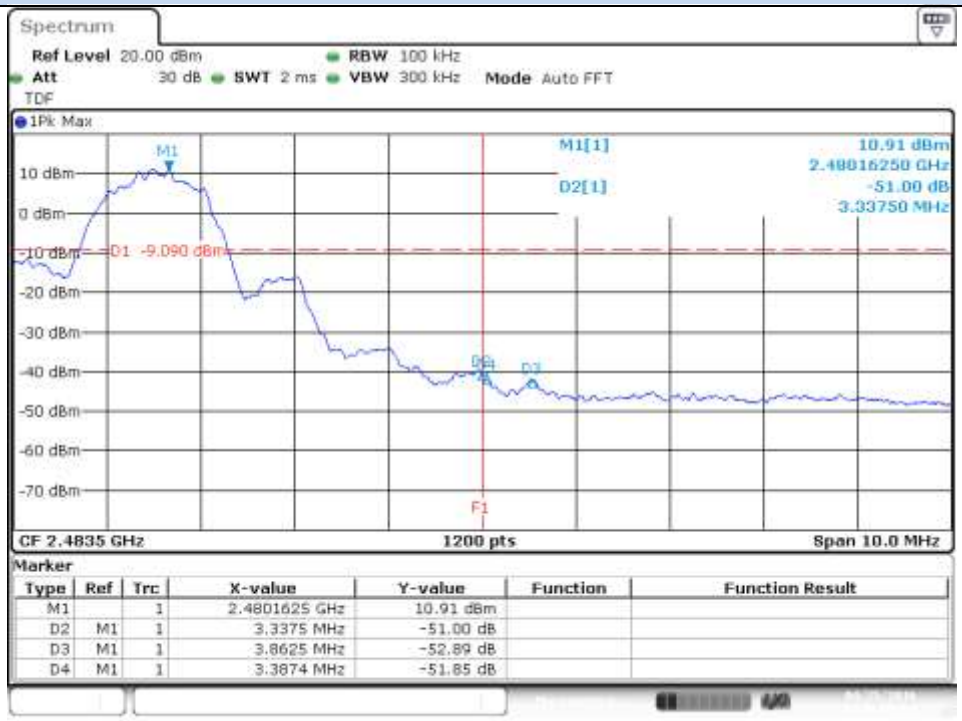
EDR – π/4-DQPSK

BE Low Freq Section - CH0



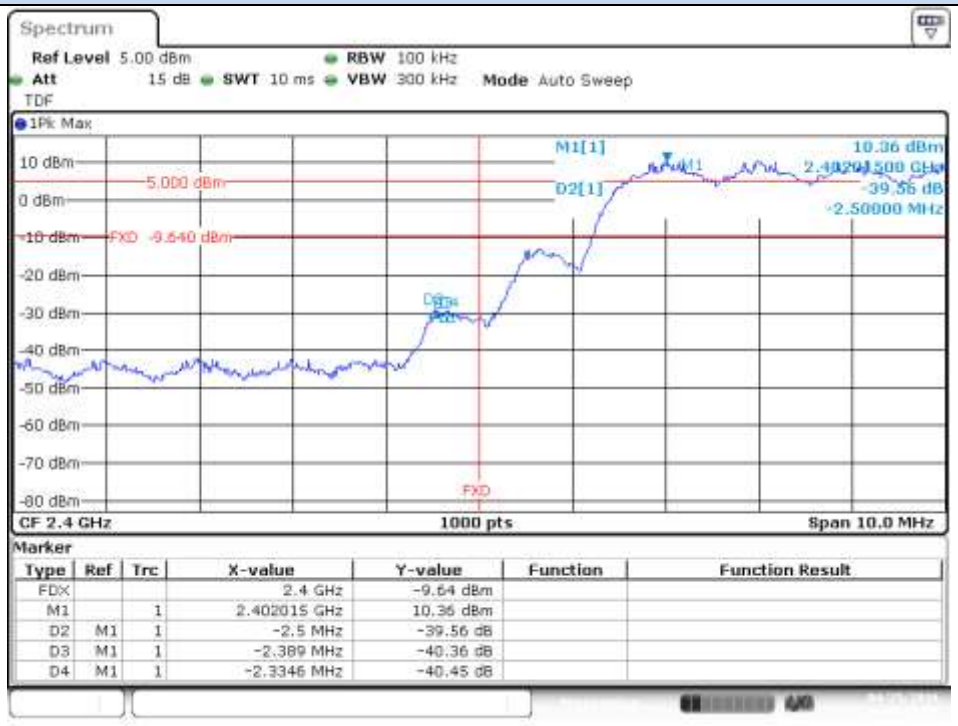
Date: 25.APR.2016 11:50:28

BE High Freq Section - CH78

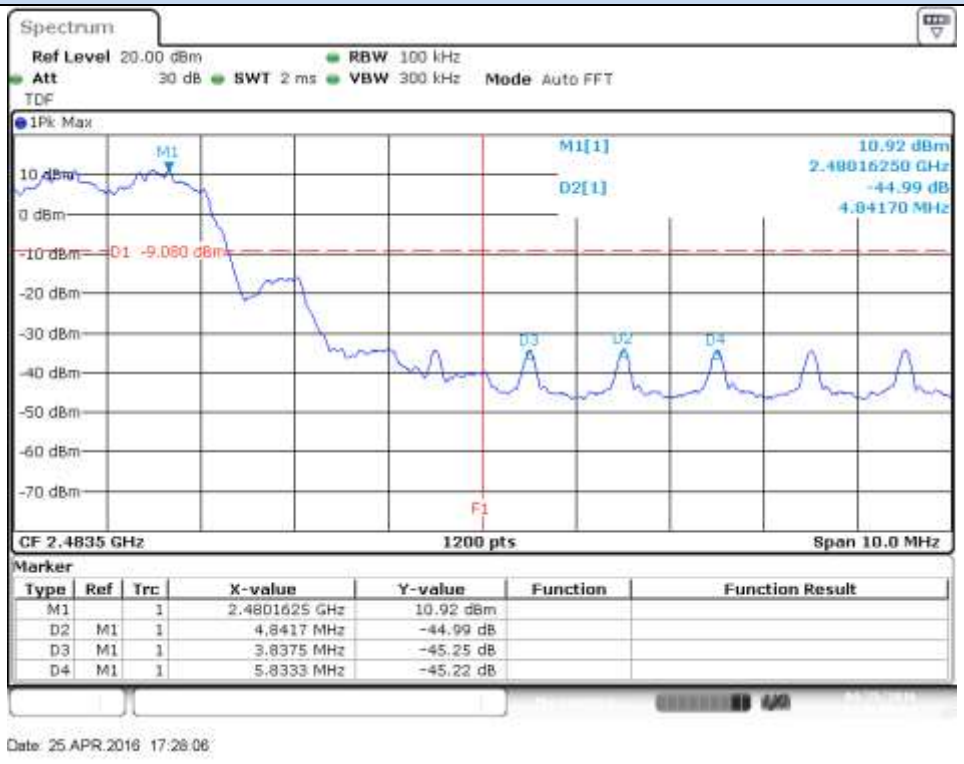


Date: 25.APR.2016 17:26:07

BE Low Freq Section - Hopping

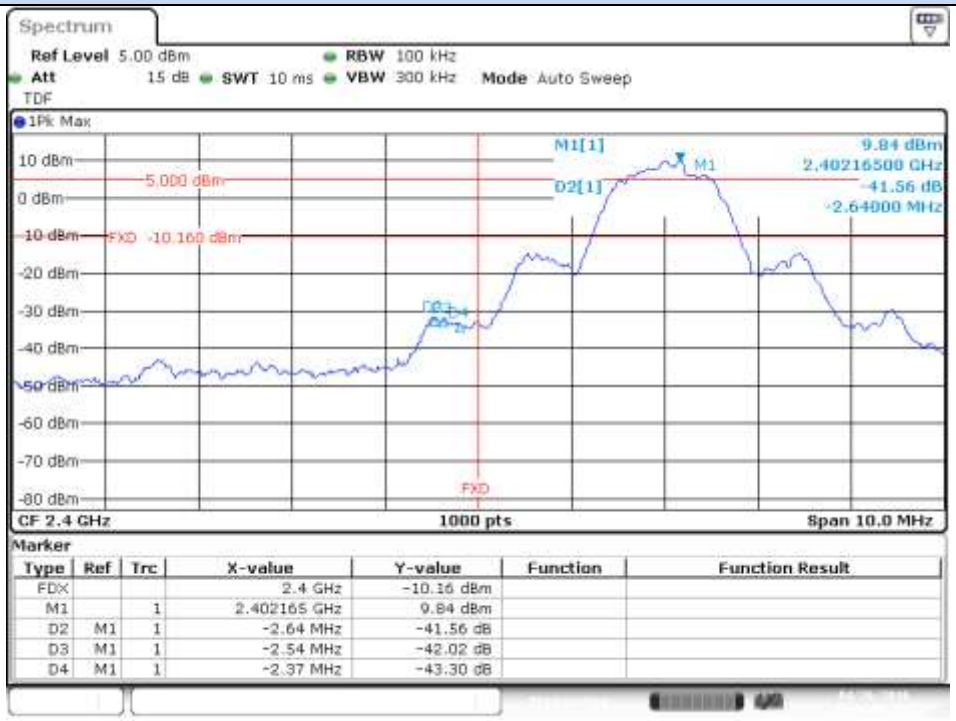


BE High Freq Section - Hopping

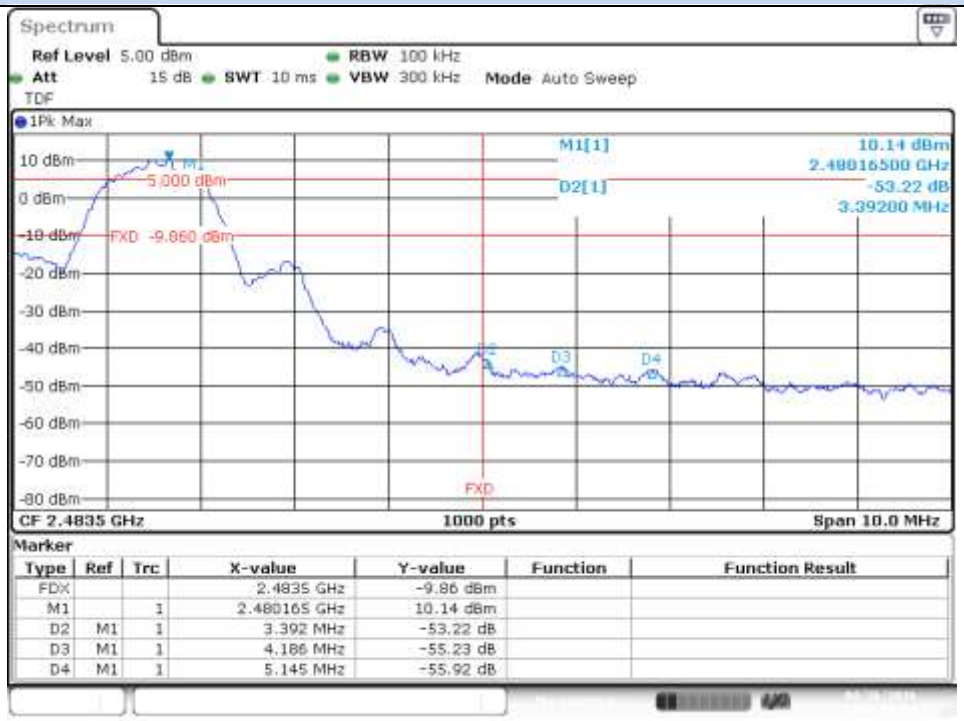


EDR – 8-DPSK

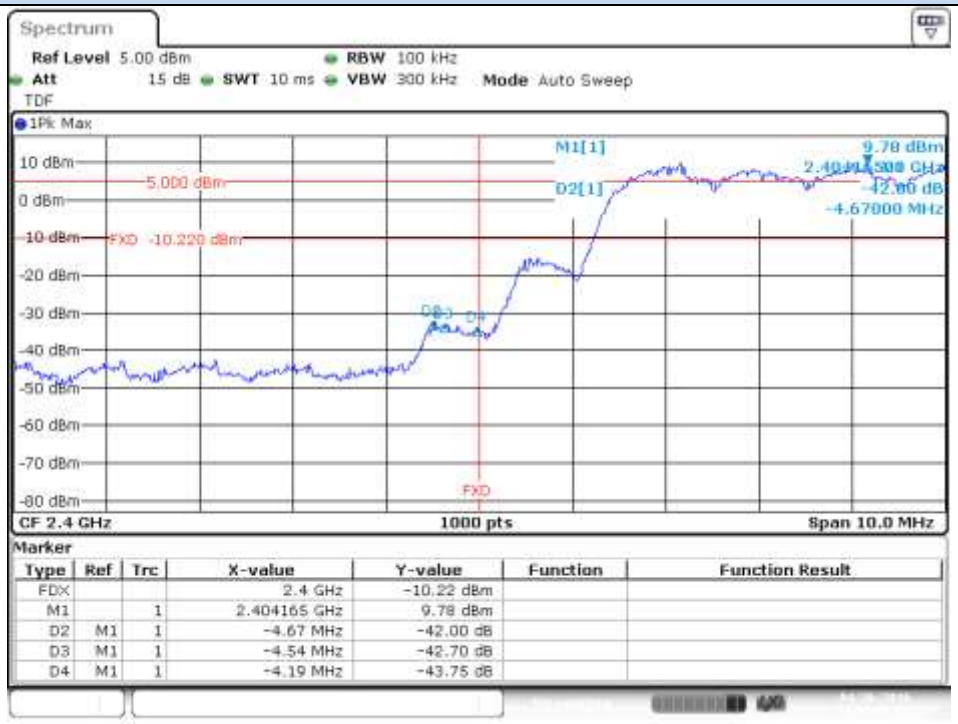
BE Low Freq Section - CH0



BE High Freq Section - CH78

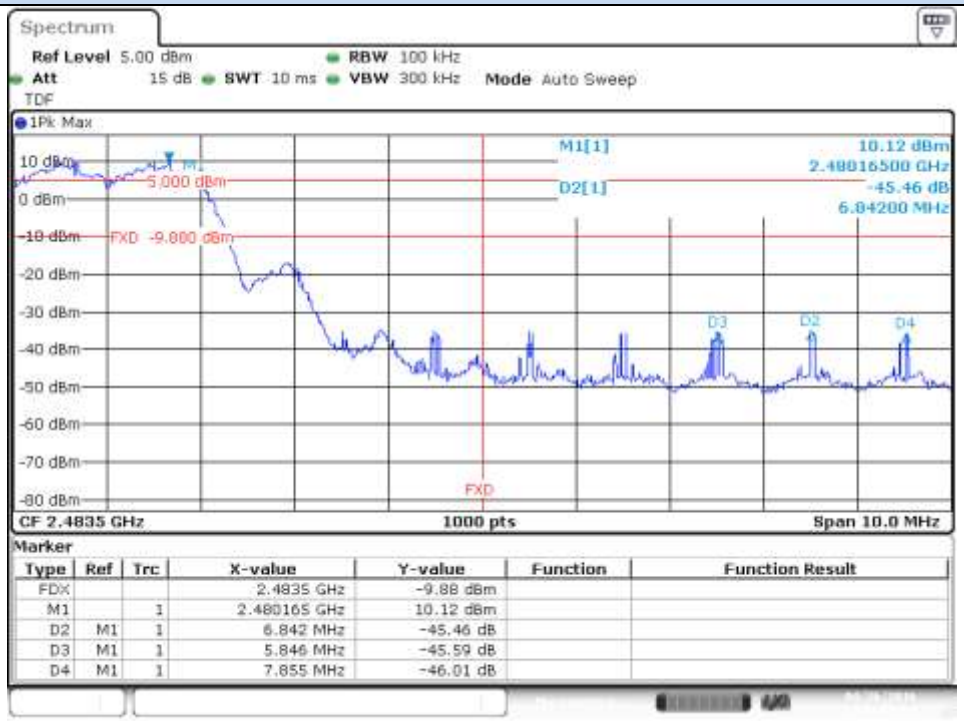


BE Low Freq Section - Hopping



Date: 26.APR.2016 12:00:00

BE High Freq Section - Hopping

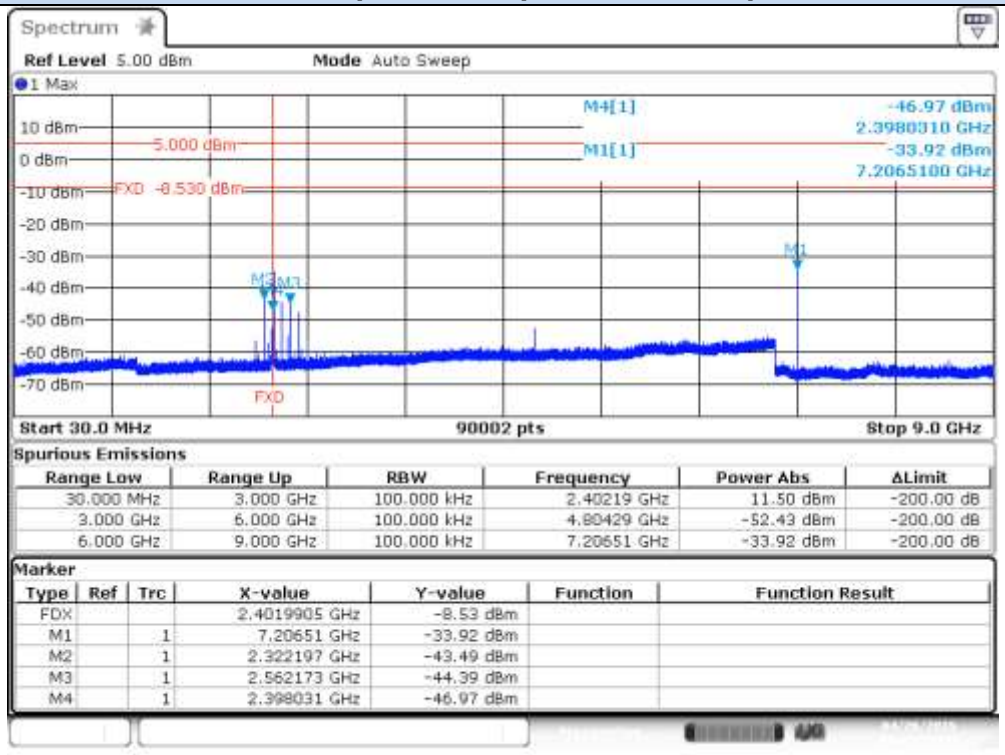


Date: 26.APR.2016 12:04:17

Conducted Spurious results Screenshot:

Basic Rate - GFSK

Cond Spur – CH0 (30MHz – 9GHz)



Spurious Emissions

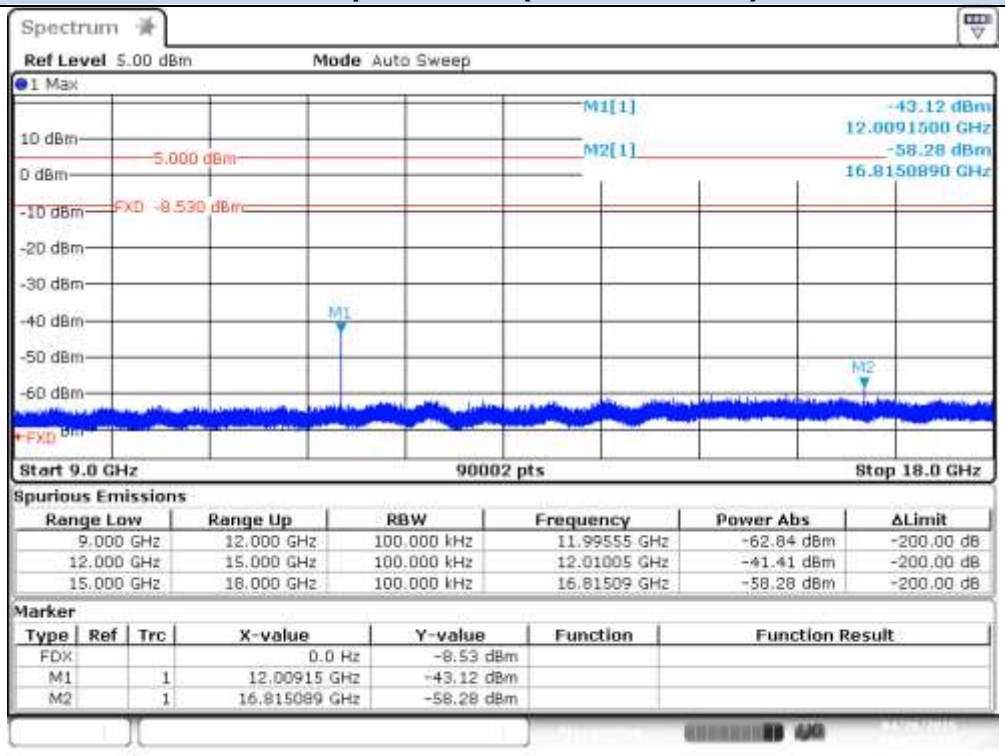
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.40219 GHz	11.50 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	4.80429 GHz	-52.43 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.20651 GHz	-33.92 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			2.4019905 GHz	-8.53 dBm		
M1		1	7.20651 GHz	-33.92 dBm		
M2		1	2.322197 GHz	-43.49 dBm		
M3		1	2.562173 GHz	-44.39 dBm		
M4		1	2.398031 GHz	-46.97 dBm		

Date: 26.APR.2016 14:23:35

Cond Spur – CH0 (9GHz – 18GHz)



Spurious Emissions

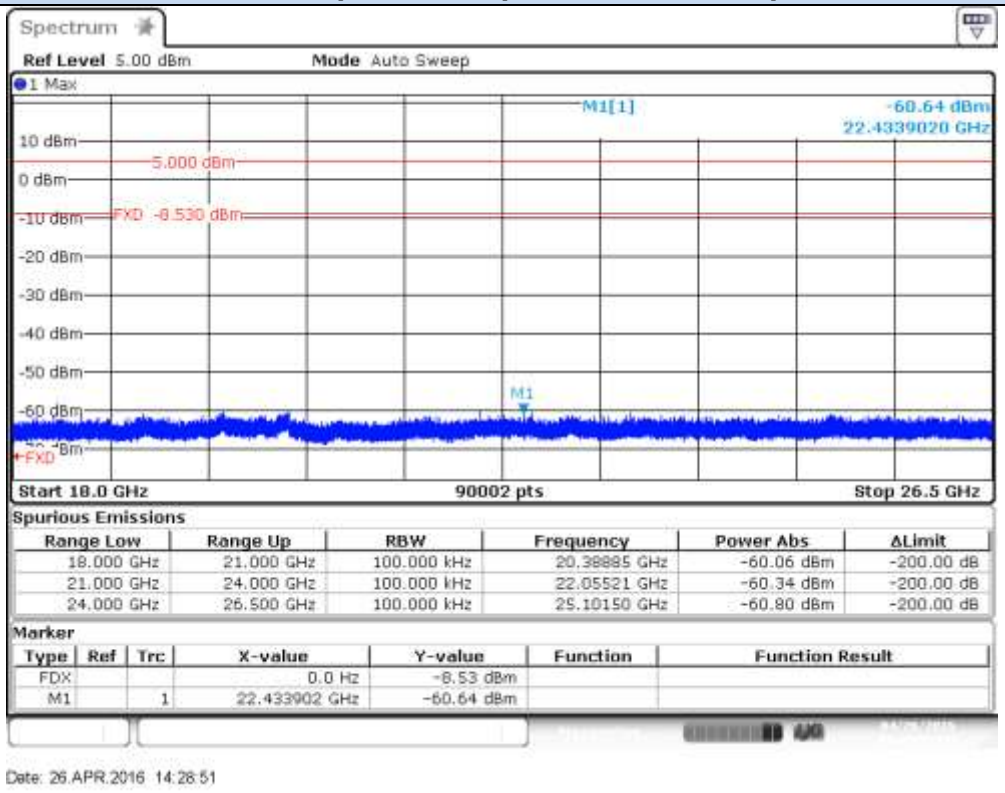
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.99555 GHz	-62.84 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.01005 GHz	-41.41 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	16.81509 GHz	-58.28 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-8.53 dBm		
M1		1	12.00915 GHz	-43.12 dBm		
M2		1	16.815089 GHz	-58.28 dBm		

Date: 26.APR.2016 14:27:23

Cond Spur – CH0 (18GHz – 26.5GHz)



Spurious Emissions

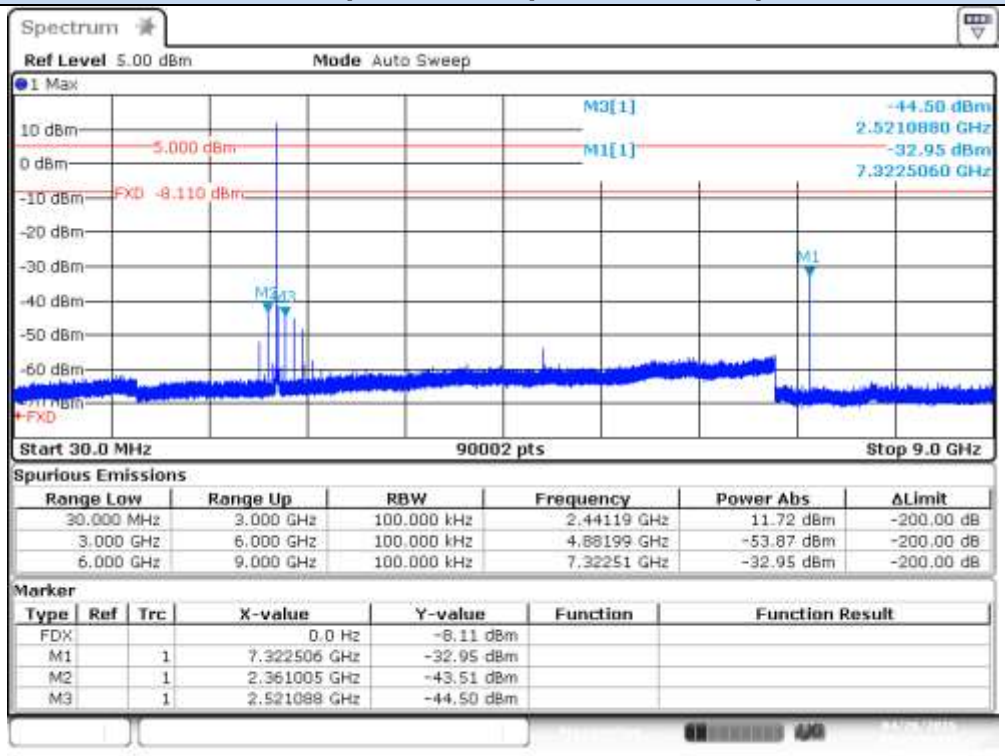
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.38885 GHz	-60.06 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.05521 GHz	-60.34 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.10150 GHz	-60.80 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-8.53 dBm		
M1		1	22.433902 GHz	-60.64 dBm		

Date: 26.APR.2016 14:28:51

Cond Spur – CH39 (30MHz – 9GHz)



Spurious Emissions

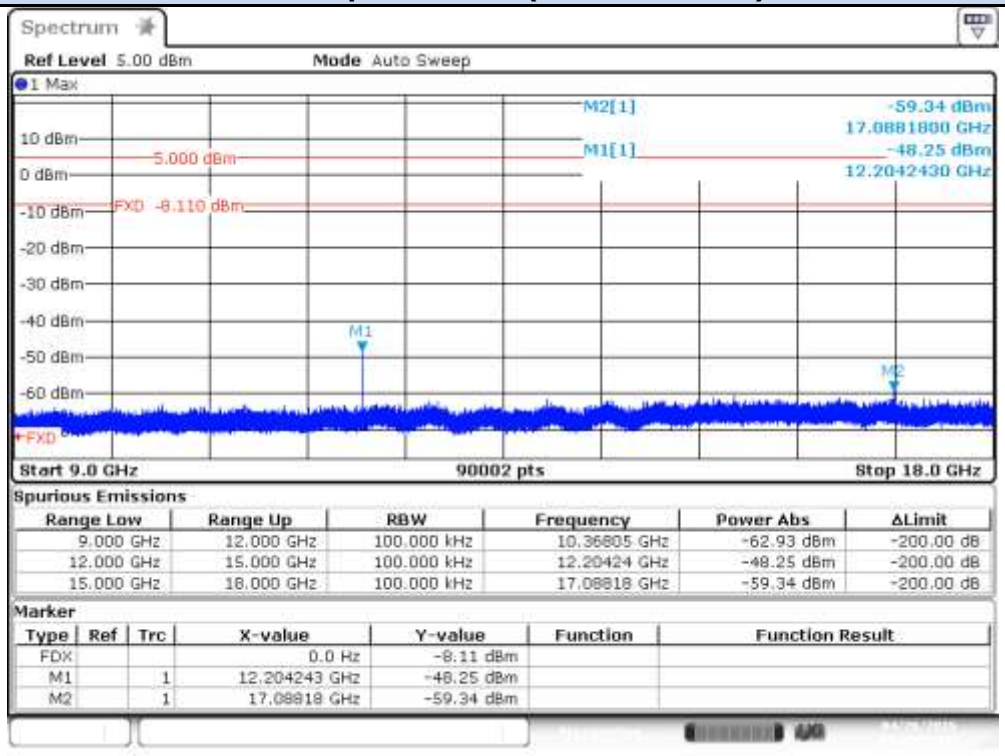
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.44119 GHz	11.72 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	4.88199 GHz	-53.87 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.32251 GHz	-32.95 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-8.11 dBm		
M1		1	7.322506 GHz	-32.95 dBm		
M2		1	2.361005 GHz	-43.51 dBm		
M3		1	2.521088 GHz	-44.50 dBm		

Date: 26.APR.2016 14:32:05

Cond Spur - CH39 (9GHz – 18GHz)



Spurious Emissions

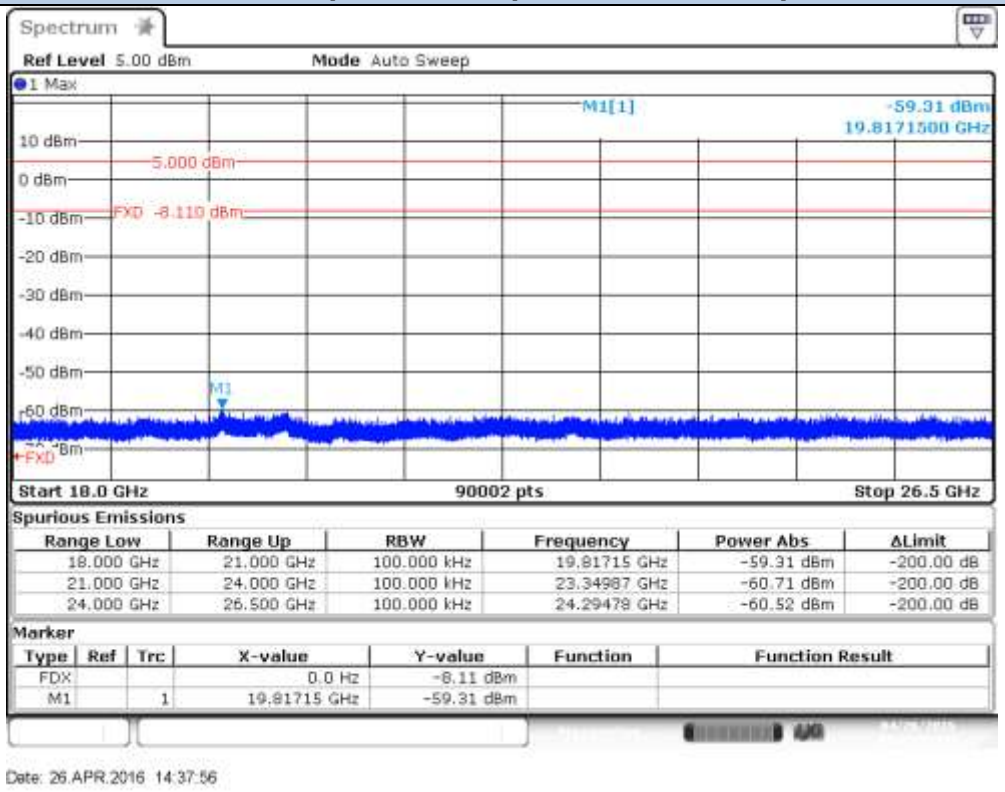
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	10.36805 GHz	-62.93 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.20424 GHz	-48.25 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	17.08818 GHz	-59.34 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-8.11 dBm		
M1		1	12.204243 GHz	-48.25 dBm		
M2		1	17.08818 GHz	-59.34 dBm		

Date: 26.APR.2016 14:35:53

Cond Spur – CH39 (18GHz – 26.5GHz)



Spurious Emissions

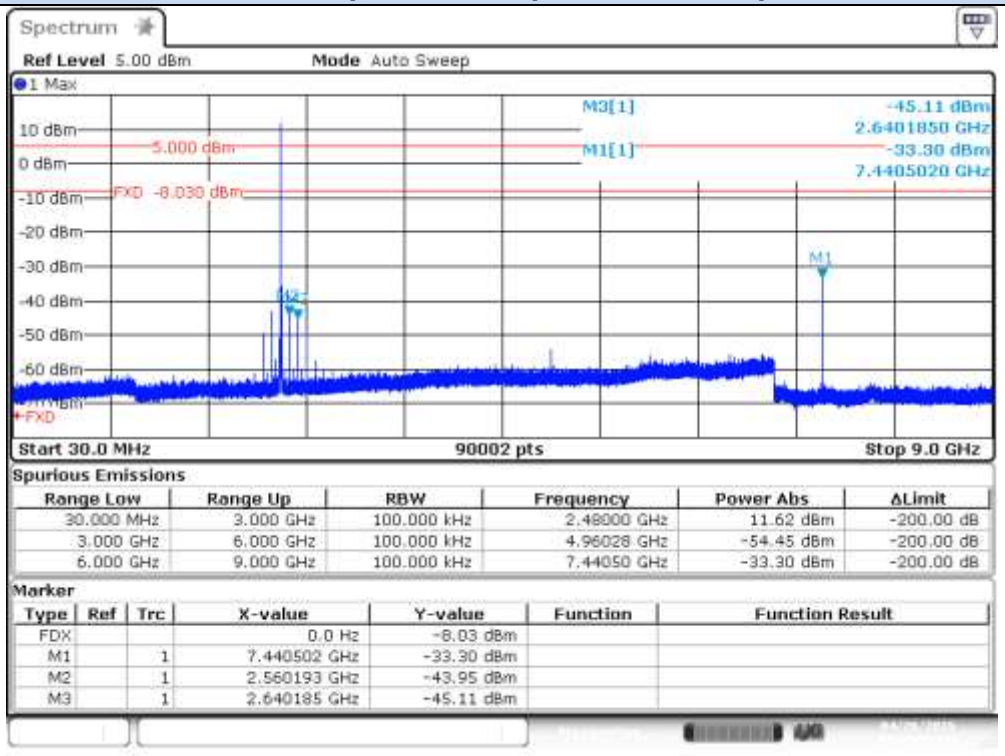
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	19.81715 GHz	-59.31 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	23.34987 GHz	-60.71 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	24.29478 GHz	-60.52 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-8.11 dBm		
M1		1	19.81715 GHz	-59.31 dBm		

Date: 26.APR.2016 14:37:56

Cond Spur – CH78 (30MHz – 9GHz)



Spurious Emissions

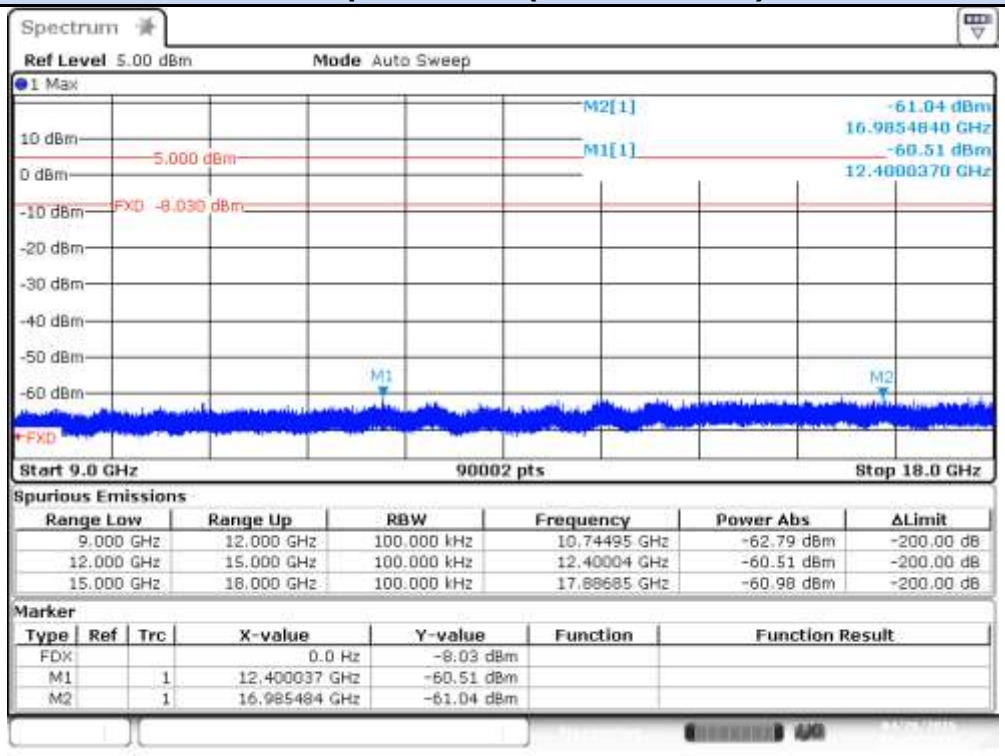
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.48000 GHz	11.62 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	4.96028 GHz	-54.45 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.44050 GHz	-33.30 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-8.03 dBm		
M1		1	7.440502 GHz	-33.30 dBm		
M2		1	2.560193 GHz	-43.95 dBm		
M3		1	2.640185 GHz	-45.11 dBm		

Date: 26.APR.2016 14:39:56

Cond Spur – CH78 (9GHz – 18GHz)



Spurious Emissions

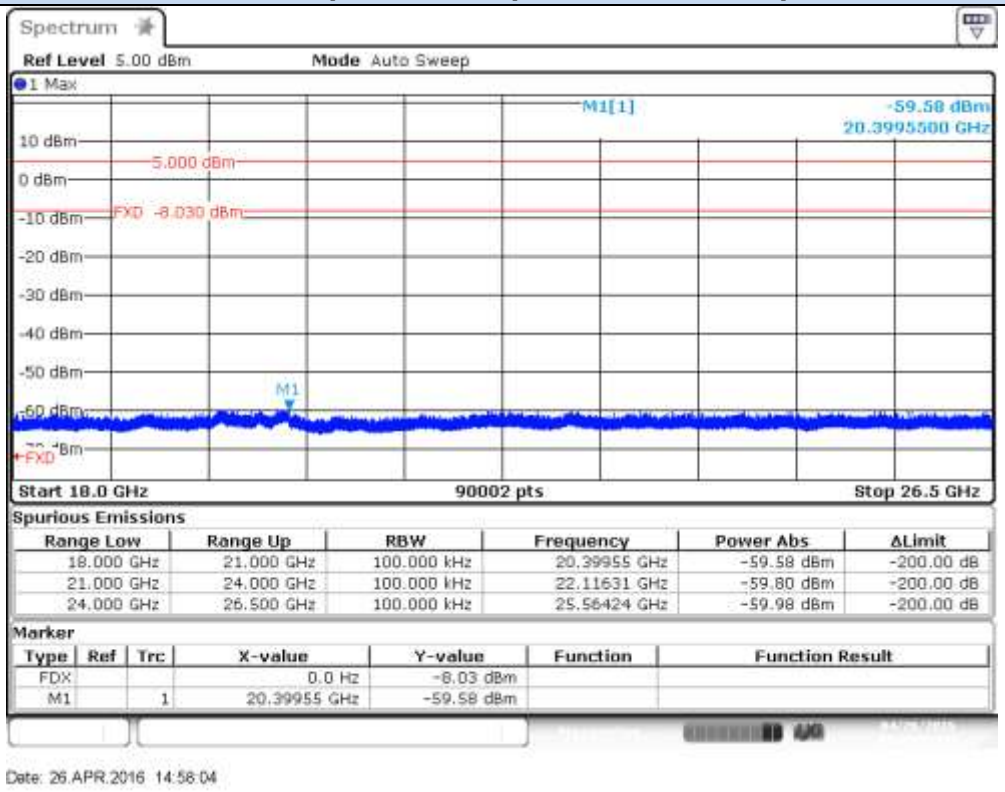
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	10.74495 GHz	-62.79 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.40004 GHz	-60.51 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	17.88685 GHz	-60.98 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-8.03 dBm		
M1		1	12.400037 GHz	-60.51 dBm		
M2		1	16.985484 GHz	-61.04 dBm		

Date: 26.APR.2016 14:40:50

Cond Spur – CH78 (18GHz – 26.5GHz)



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.39955 GHz	-59.58 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.11631 GHz	-59.80 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.56424 GHz	-59.98 dBm	-200.00 dB

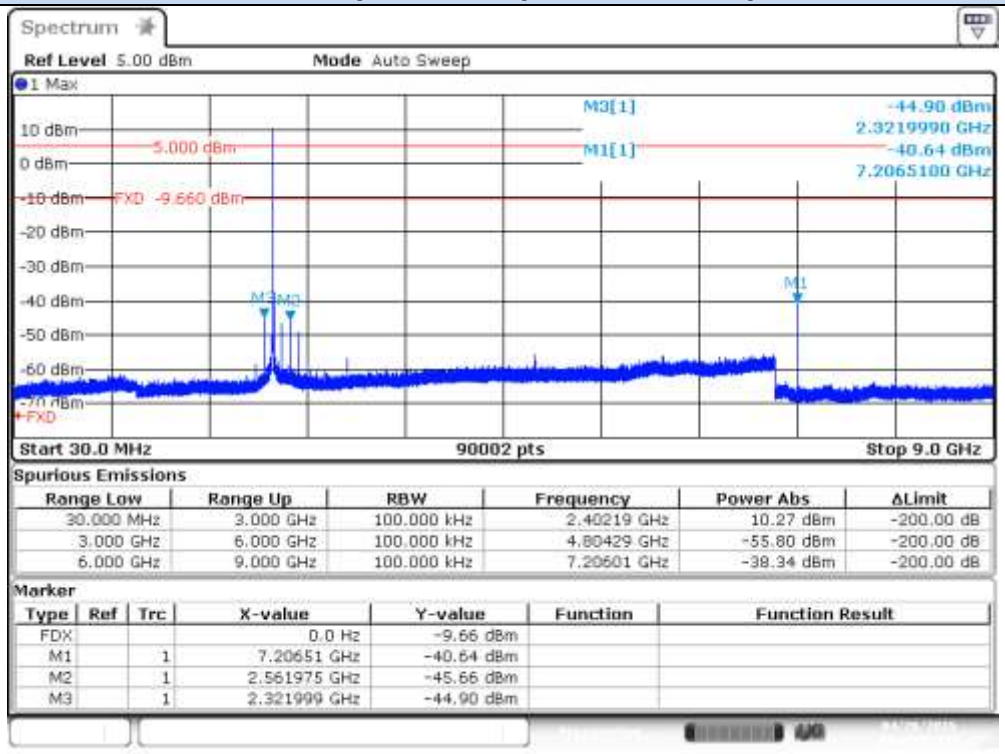
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-8.03 dBm		
M1		1	20.39955 GHz	-59.58 dBm		

Date: 26.APR.2016 14:58:04

EDR – π/4-DQPSK

Cond Spur – CH0 (30MHz – 9GHz)



Spurious Emissions

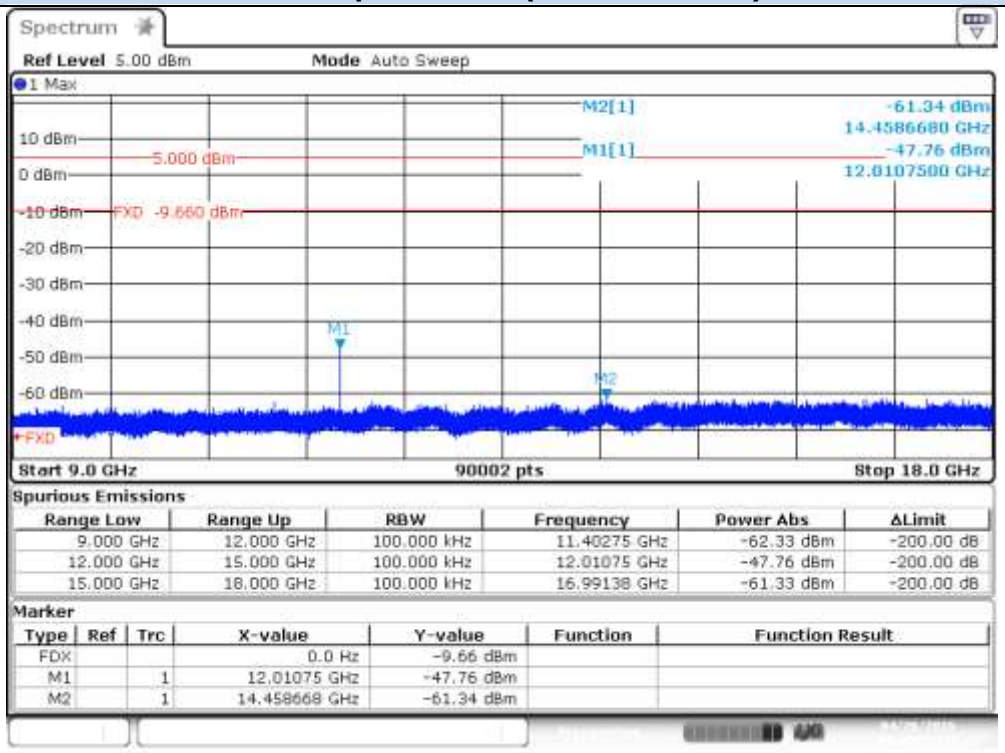
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.40219 GHz	10.27 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	4.80429 GHz	-55.80 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.20601 GHz	-38.34 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.66 dBm		
M1		1	7.20651 GHz	-40.64 dBm		
M2		1	2.561975 GHz	-45.66 dBm		
M3		1	2.321999 GHz	-44.90 dBm		

Date: 26.APR.2016 15:03:04

Cond Spur – CH0 (9GHz – 18GHz)



Spurious Emissions

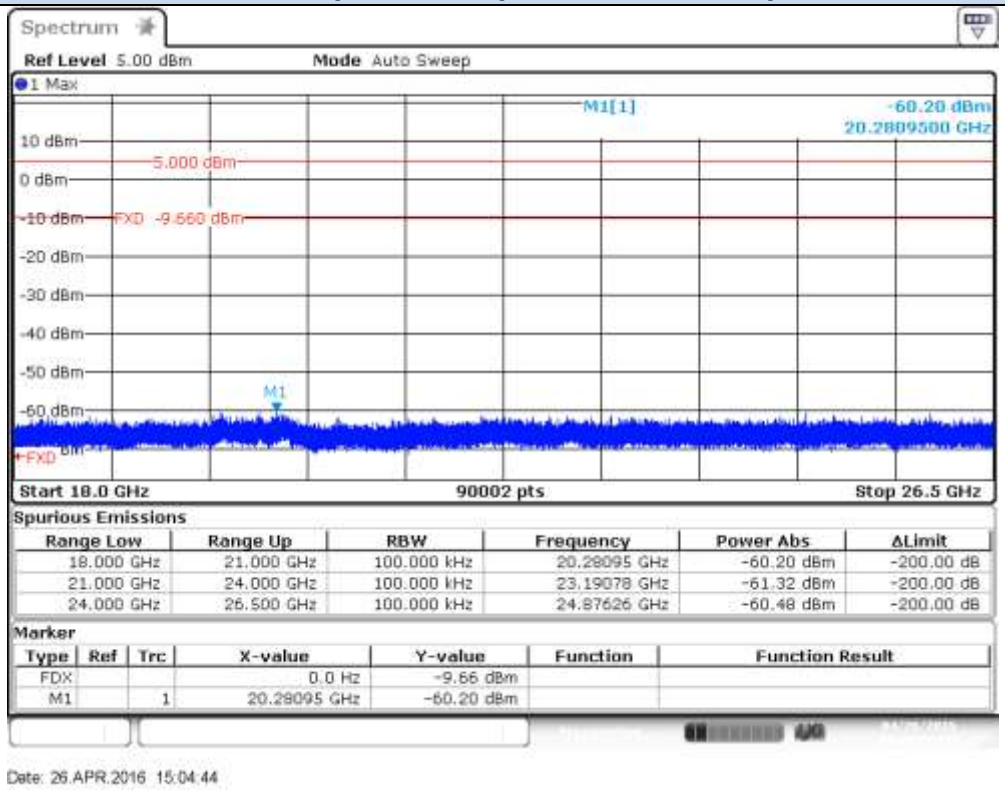
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.40275 GHz	-62.33 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.01075 GHz	-47.76 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	16.99138 GHz	-61.33 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.66 dBm		
M1		1	12.01075 GHz	-47.76 dBm		
M2		1	14.458668 GHz	-61.34 dBm		

Date: 26.APR.2016 15:03:59

Cond Spur – CH0 (18GHz – 26.5GHz)



Spurious Emissions

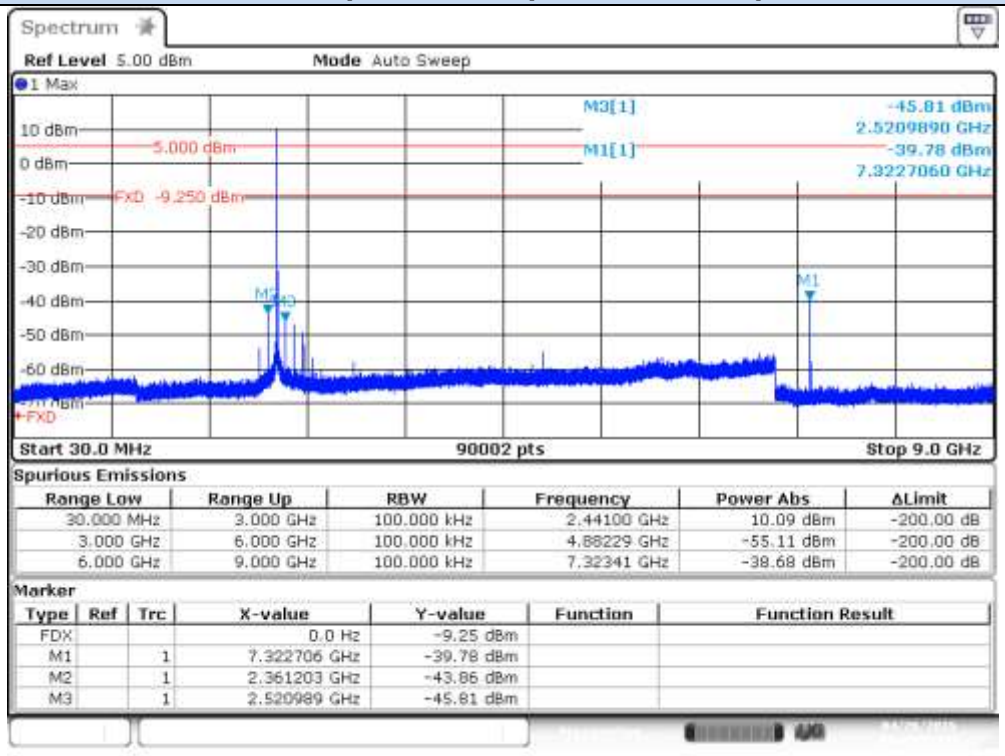
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.28095 GHz	-60.20 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	23.19078 GHz	-61.32 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	24.87626 GHz	-60.48 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.66 dBm		
M1		1	20.28095 GHz	-60.20 dBm		

Date: 26.APR.2016 15:04:44

Cond Spur – CH39 (30MHz – 9GHz)



Spurious Emissions

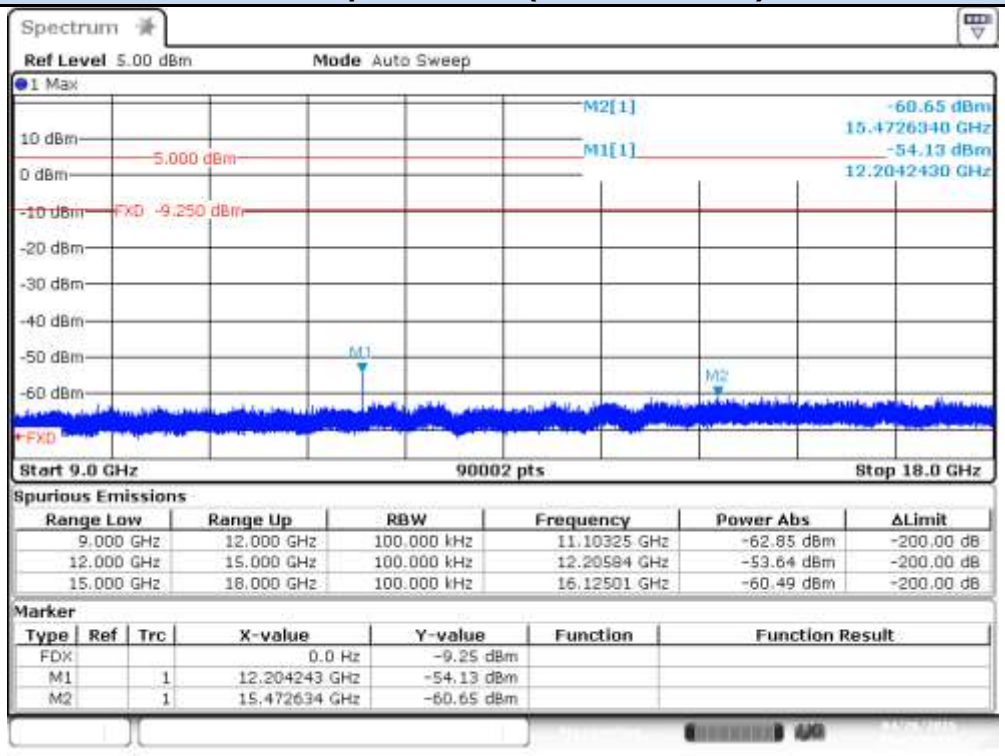
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.44100 GHz	10.09 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	4.88229 GHz	-55.11 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.32341 GHz	-38.68 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.25 dBm		
M1		1	7.322706 GHz	-39.78 dBm		
M2		1	2.361203 GHz	-43.86 dBm		
M3		1	2.520989 GHz	-45.81 dBm		

Date: 26.APR.2016 15:06:55

Cond Spur - CH39 (9GHz – 18GHz)



Spurious Emissions

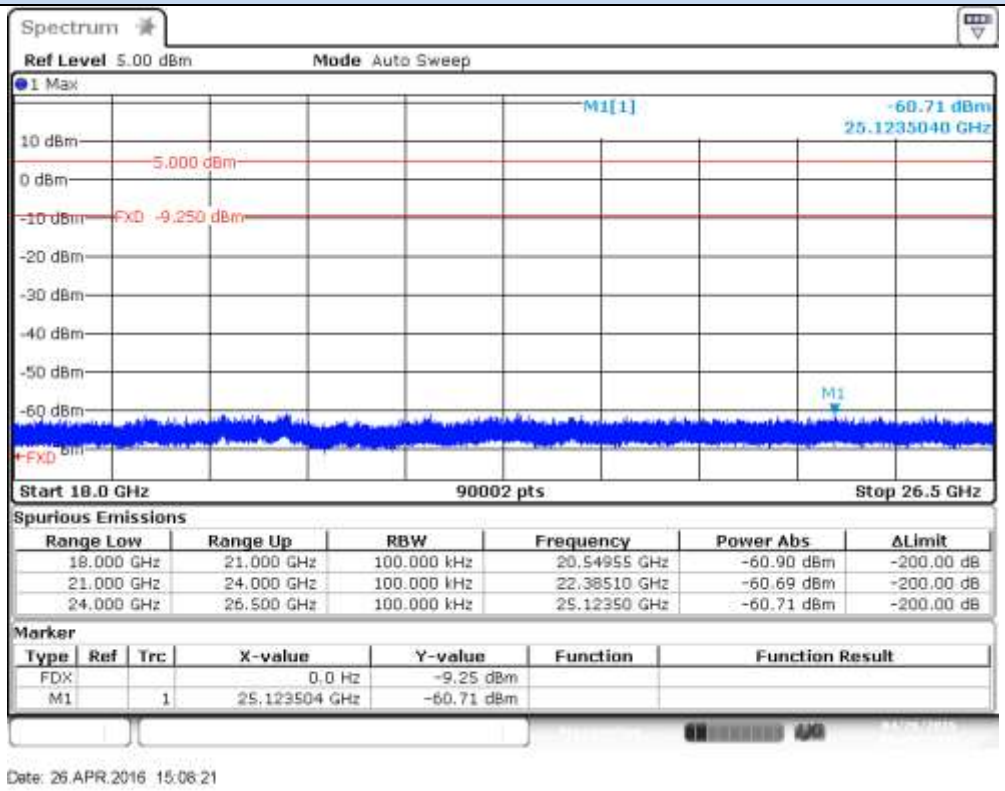
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.10325 GHz	-62.85 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.20584 GHz	-53.64 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	16.12501 GHz	-60.49 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.25 dBm		
M1		1	12.204243 GHz	-54.13 dBm		
M2		1	15.472634 GHz	-60.65 dBm		

Date: 26.APR.2016 15:07:36

Cond Spur – CH39 (18GHz – 26.5GHz)



Spurious Emissions

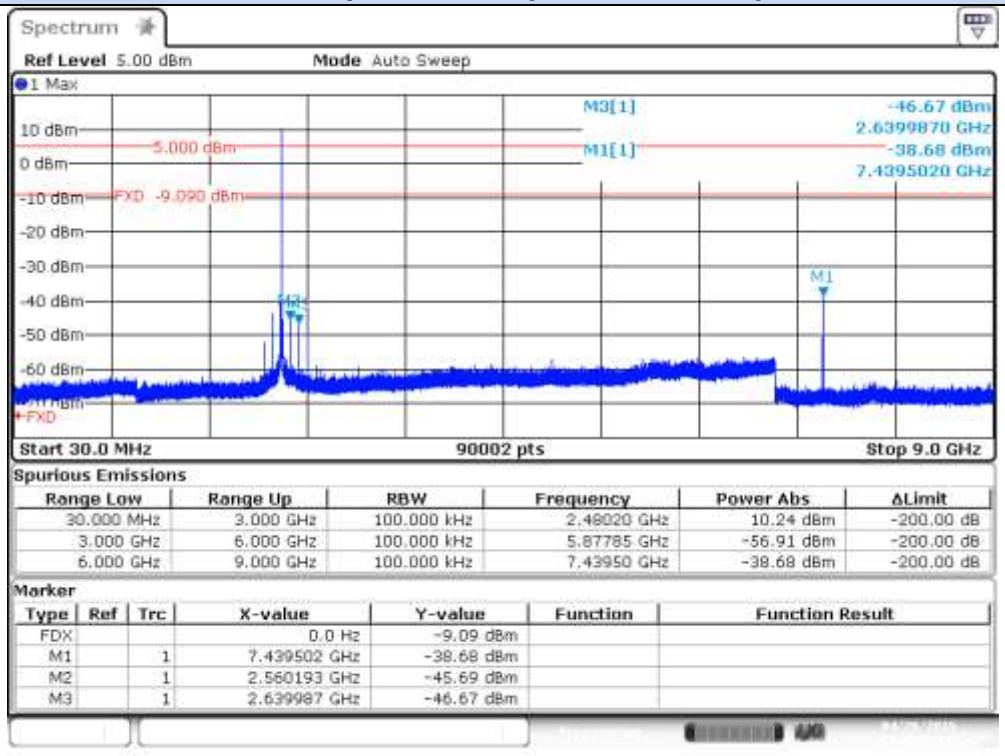
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.54955 GHz	-60.90 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.38510 GHz	-60.69 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.12350 GHz	-60.71 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.25 dBm		
M1		1	25.123504 GHz	-60.71 dBm		

Date: 26.APR.2016 15:08:21

Cond Spur – CH78 (30MHz – 9GHz)



Spurious Emissions

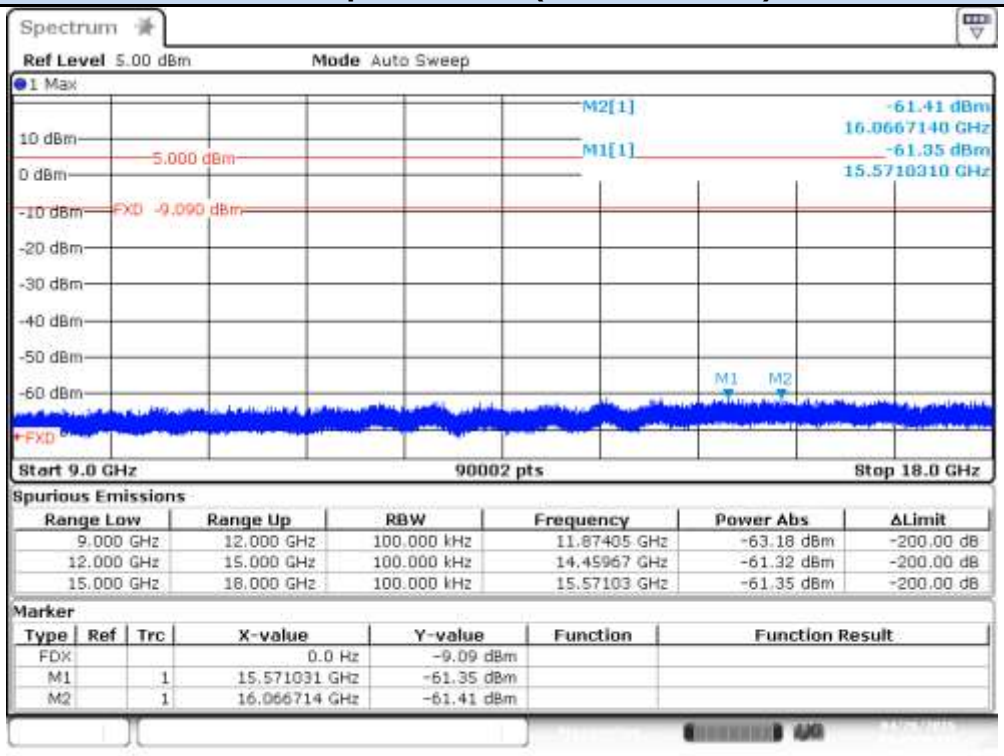
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.48020 GHz	10.24 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.87785 GHz	-56.91 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.43950 GHz	-38.68 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.09 dBm		
M1		1	7.439502 GHz	-38.68 dBm		
M2		1	2.560193 GHz	-45.69 dBm		
M3		1	2.639987 GHz	-46.67 dBm		

Date: 26.APR.2016 15:10:07

Cond Spur – CH78 (9GHz – 18GHz)



Spurious Emissions

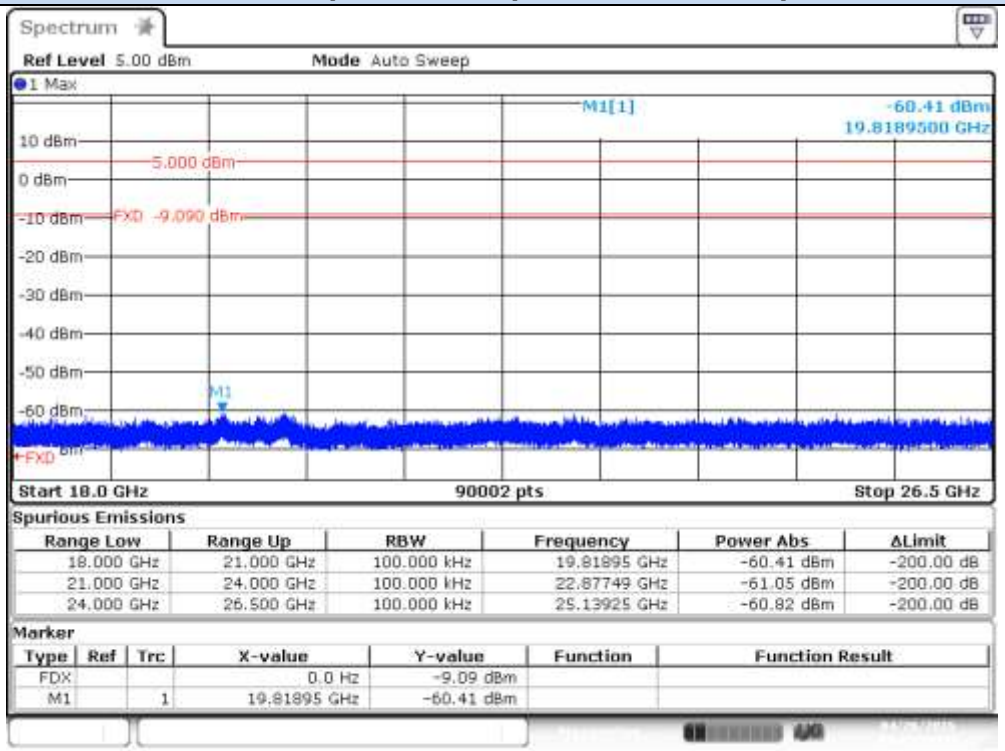
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.87405 GHz	-63.18 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.45967 GHz	-61.32 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	15.57103 GHz	-61.35 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.09 dBm		
M1		1	15.571031 GHz	-61.35 dBm		
M2		1	16.066714 GHz	-61.41 dBm		

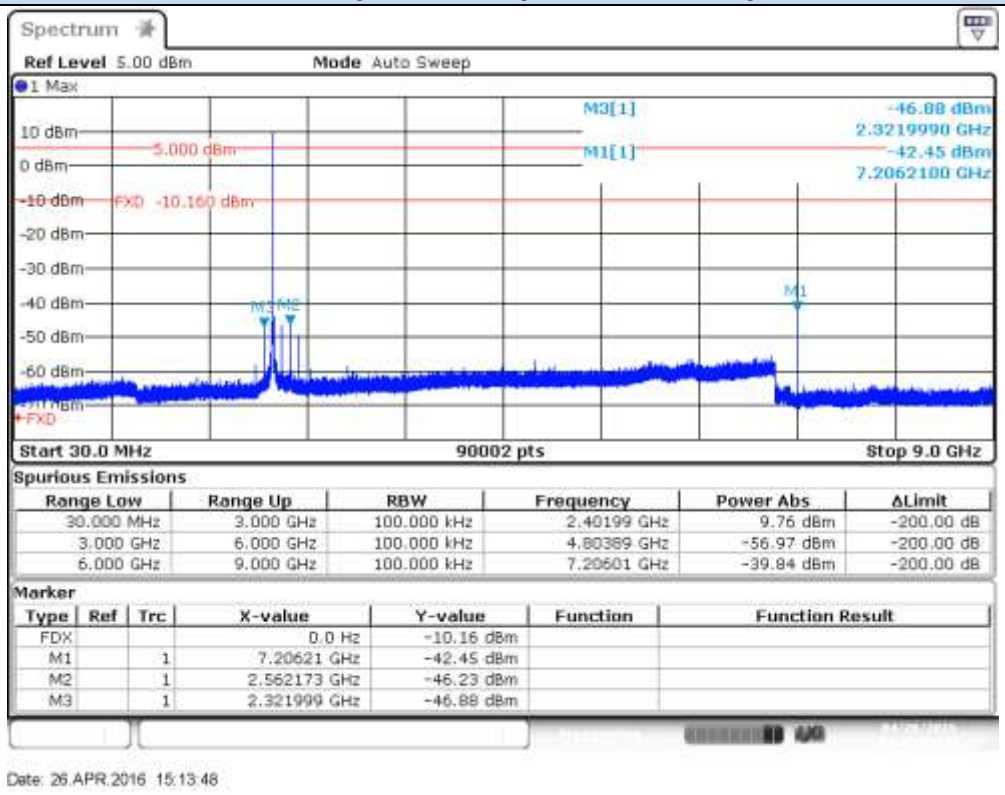
Date: 26.APR.2016 15:10:45

Cond Spur – CH78 (18GHz – 26.5GHz)



EDR – 8-DPSK

Cond Spur – CH0 (30MHz – 9GHz)



Spurious Emissions

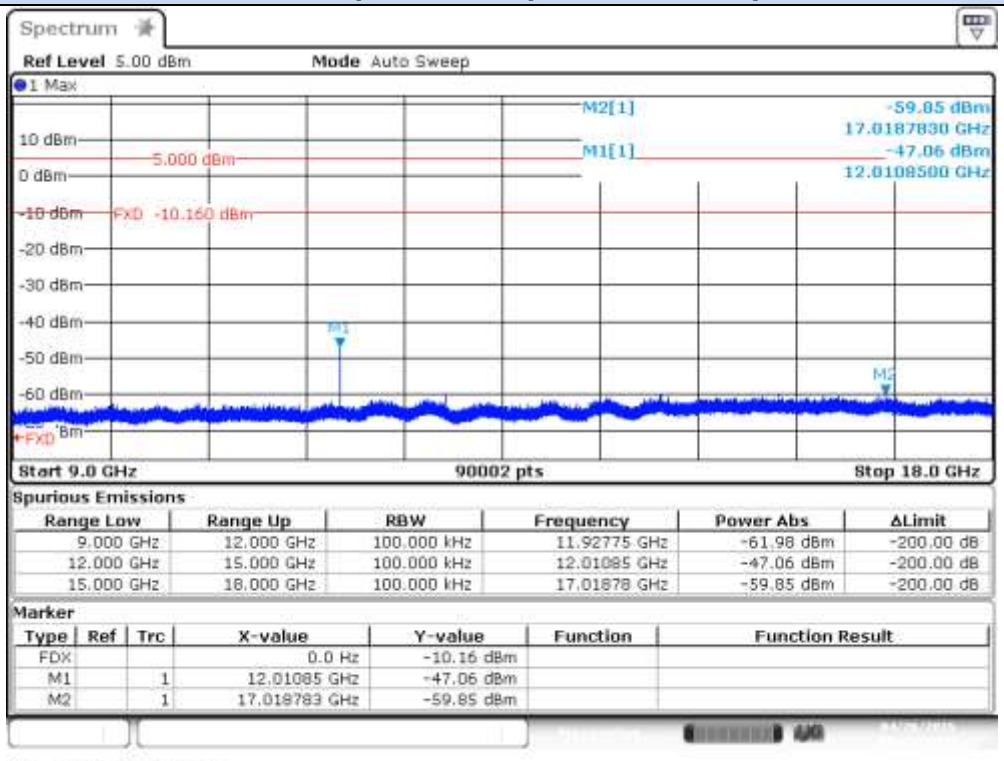
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.40199 GHz	9.76 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	4.80389 GHz	-56.97 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.20601 GHz	-39.84 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-10.16 dBm		
M1		1	7.20621 GHz	-42.45 dBm		
M2		1	2.562173 GHz	-46.23 dBm		
M3		1	2.321999 GHz	-46.88 dBm		

Date: 26.APR.2016 15:13:48

Cond Spur – CH0 (9GHz – 18GHz)



Spurious Emissions

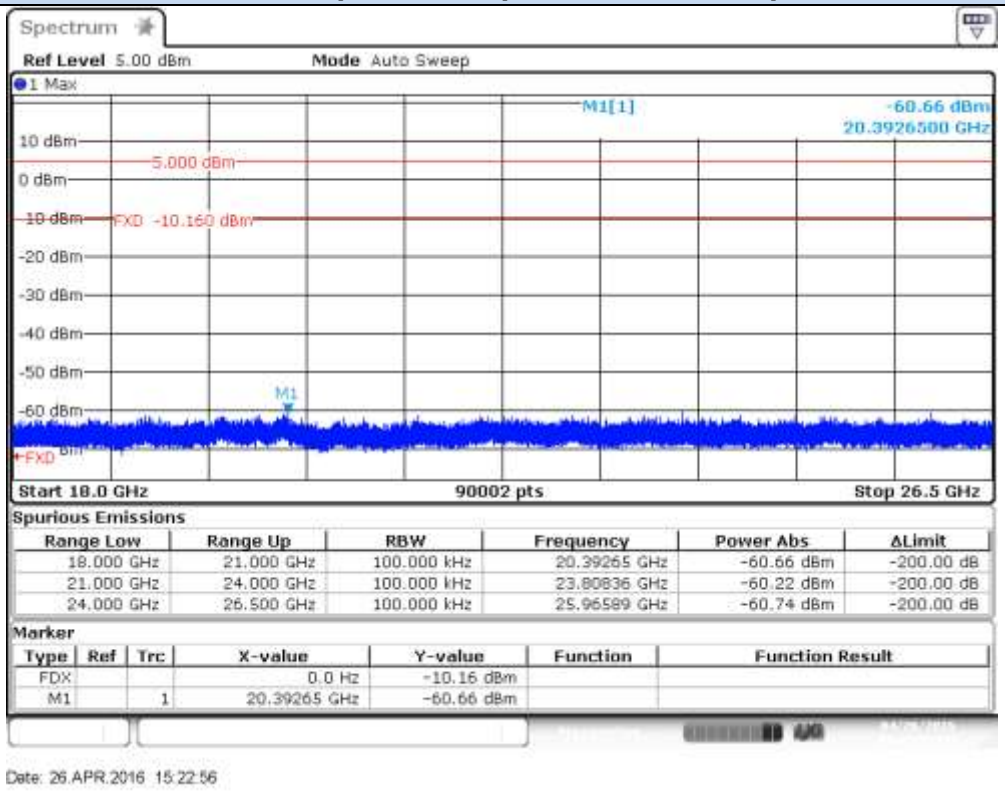
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.92775 GHz	-61.98 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.01085 GHz	-47.06 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	17.01878 GHz	-59.85 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-10.16 dBm		
M1		1	12.01085 GHz	-47.06 dBm		
M2		1	17.018783 GHz	-59.85 dBm		

Date: 26.APR.2016 15:22:25

Cond Spur – CH0 (18GHz – 26.5GHz)



Spurious Emissions

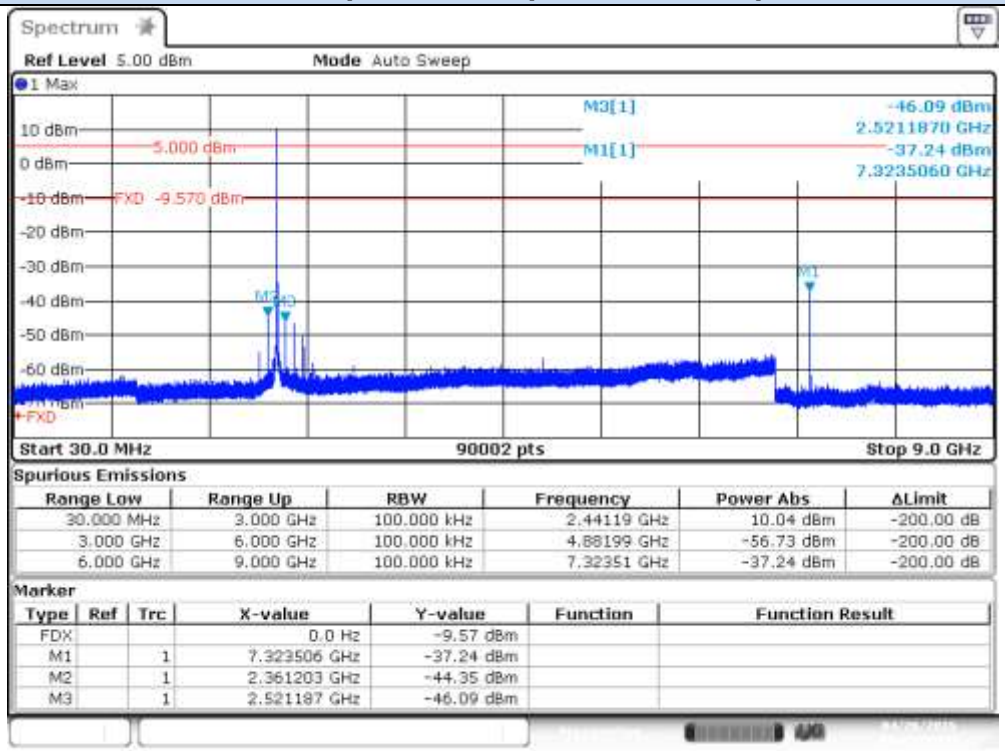
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.39265 GHz	-60.66 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	23.80836 GHz	-60.22 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.96589 GHz	-60.74 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-10.16 dBm		
M1		1	20.39265 GHz	-60.66 dBm		

Date: 26.APR.2016 15:22:56

Cond Spur – CH39 (30MHz – 9GHz)



Spurious Emissions

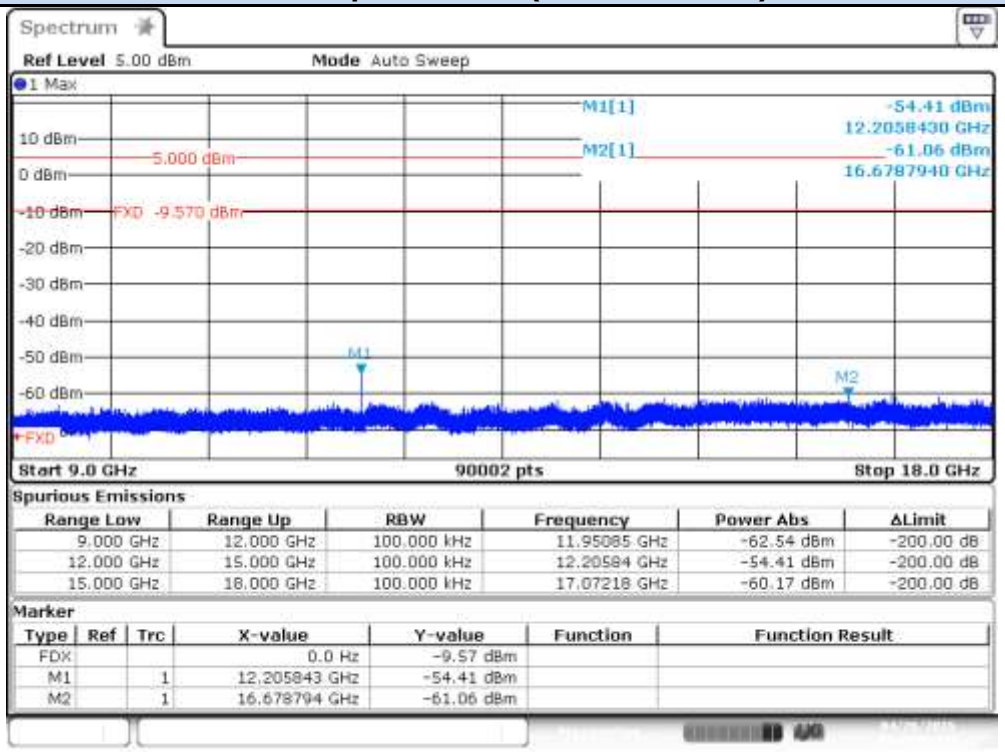
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.44119 GHz	10.04 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	4.88199 GHz	-56.73 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.32351 GHz	-37.24 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.57 dBm		
M1		1	7.323506 GHz	-37.24 dBm		
M2		1	2.361203 GHz	-44.35 dBm		
M3		1	2.521187 GHz	-46.09 dBm		

Date: 26.APR.2016 15:25:24

Cond Spur - CH39 (9GHz – 18GHz)



Spurious Emissions

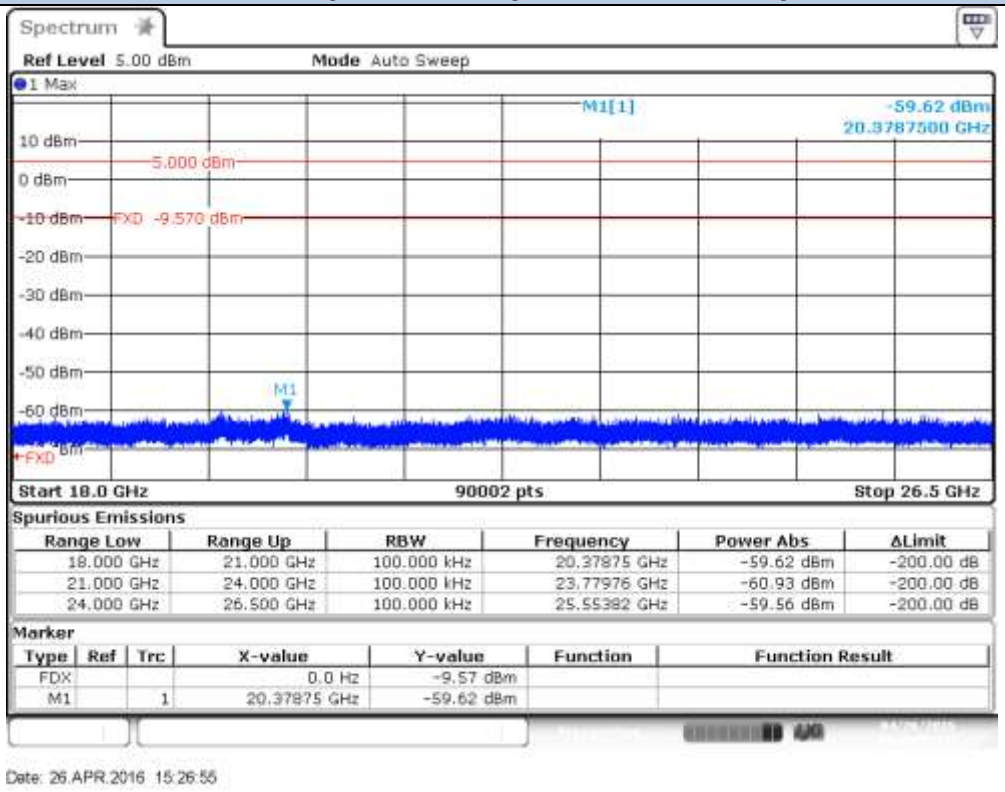
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.95085 GHz	-62.54 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.20584 GHz	-54.41 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	17.07218 GHz	-60.17 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.57 dBm		
M1		1	12.205843 GHz	-54.41 dBm		
M2		1	16.678794 GHz	-61.06 dBm		

Date: 26.APR.2016 15:26:09

Cond Spur – CH39 (18GHz – 26.5GHz)



Spurious Emissions

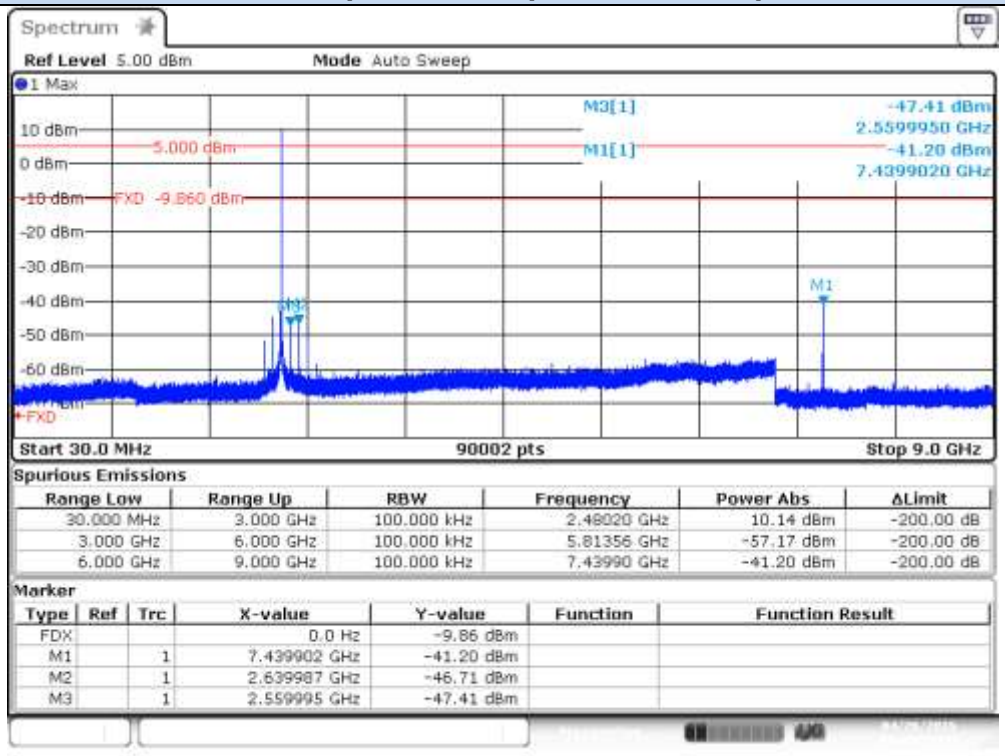
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.37875 GHz	-59.62 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	23.77976 GHz	-60.93 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.55382 GHz	-59.56 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.57 dBm		
M1		1	20.37875 GHz	-59.62 dBm		

Date: 26.APR.2016 15:26:55

Cond Spur – CH78 (30MHz – 9GHz)



Spurious Emissions

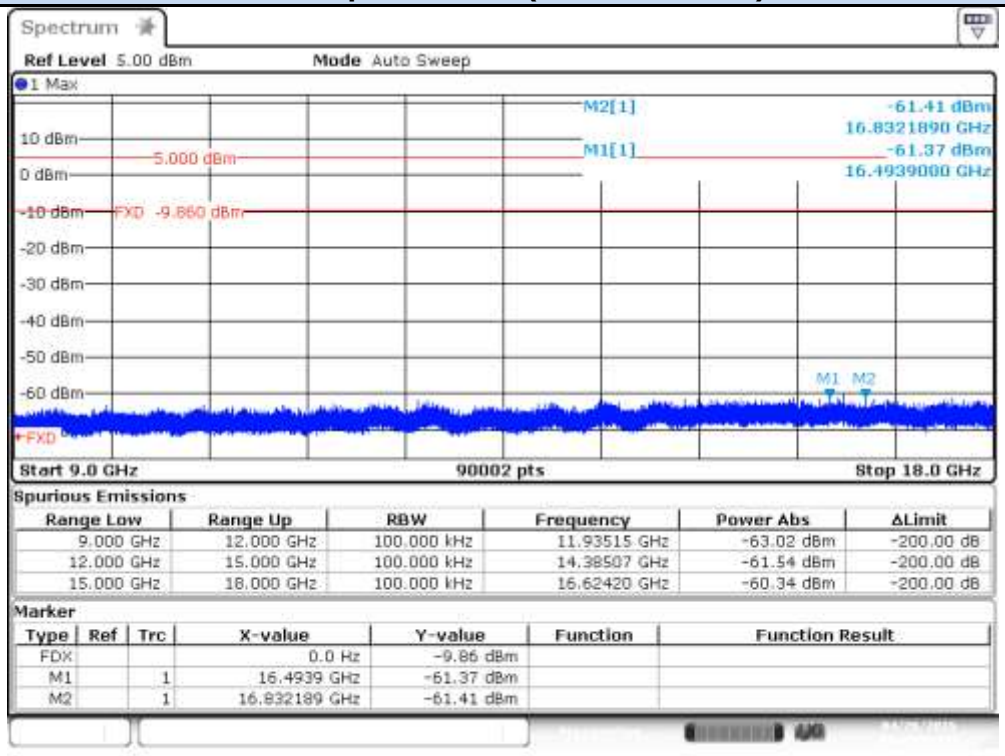
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.48020 GHz	10.14 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.81356 GHz	-57.17 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	7.43990 GHz	-41.20 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.86 dBm		
M1		1	7.439902 GHz	-41.20 dBm		
M2		1	2.639987 GHz	-46.71 dBm		
M3		1	2.559995 GHz	-47.41 dBm		

Date: 26.APR.2016 15:28:25

Cond Spur – CH78 (9GHz – 18GHz)



Spurious Emissions

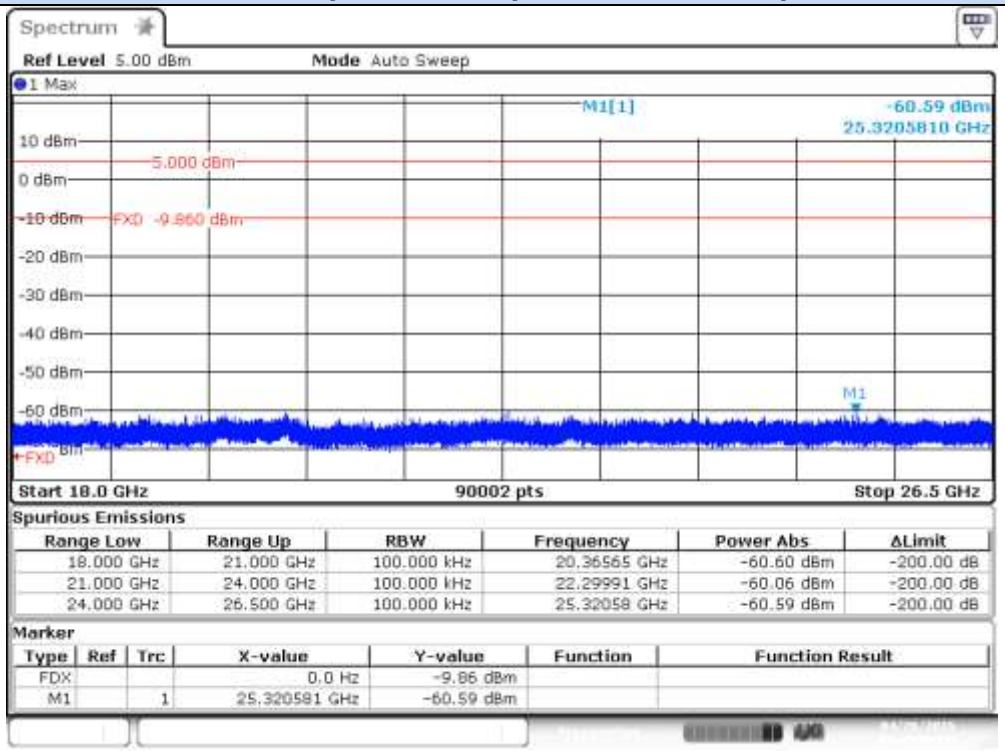
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.93515 GHz	-63.02 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.38507 GHz	-61.54 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	16.62420 GHz	-60.34 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.86 dBm		
M1		1	16.4939 GHz	-61.37 dBm		
M2		1	16.832189 GHz	-61.41 dBm		

Date: 26.APR.2016 15:29:06

Cond Spur – CH78 (18GHz – 26.5GHz)



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.36565 GHz	-60.60 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.29991 GHz	-60.06 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.32058 GHz	-60.59 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-9.86 dBm		
M1		1	25.320581 GHz	-60.59 dBm		

Date: 26.APR.2016 15:29:40

B.6 Radiated spurious emission

Standard references:

<table>
<tr><th>FCC part</th><th>RSS part</th><th>Limits</th></tr>
<tr><td>15.247 (d)</td><td>RSS-247
Clause 5.5</td><td>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):

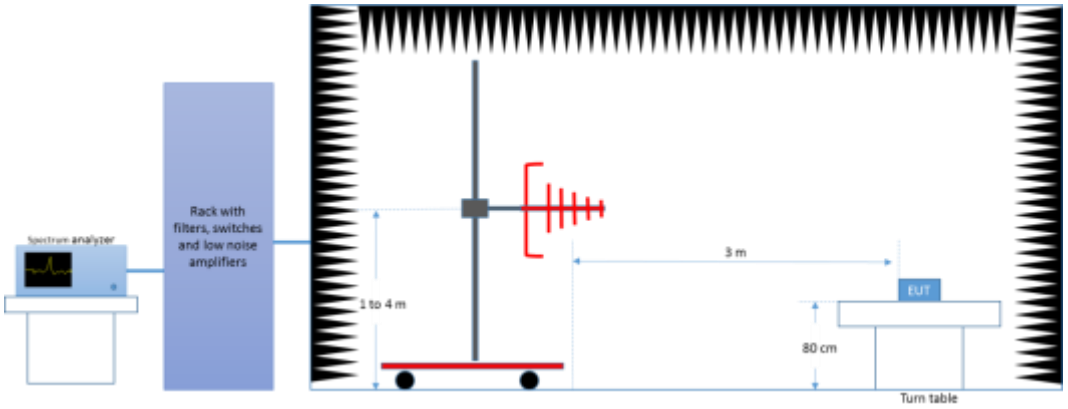
<table>
<tr><th>Freq Range (MHz)</th><th>Field Stregth (µV/m)</th><th>Field Stregth (dBµV/m)</th><th>Meas. Distance (m)</th></tr>
<tr><td>0.009-0.490</td><td>2400/f(kHz)</td><td>-</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/f(kHz)</td><td>-</td><td>300</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>-</td><td>30</td></tr>
<tr><td>30-88</td><td>100</td><td>40</td><td>3</td></tr>
<tr><td>88-216</td><td>150</td><td>43.5</td><td>3</td></tr>
<tr><td>216-960</td><td>200</td><td>46</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>54</td><td>3</td></tr>
</table>

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
For average radiated emission measurements above 1000 MHz, there is also a limit specified when measuring with peak detector function, corresponding to 20 dB above the indicated values in the table.</td></tr>
</table>

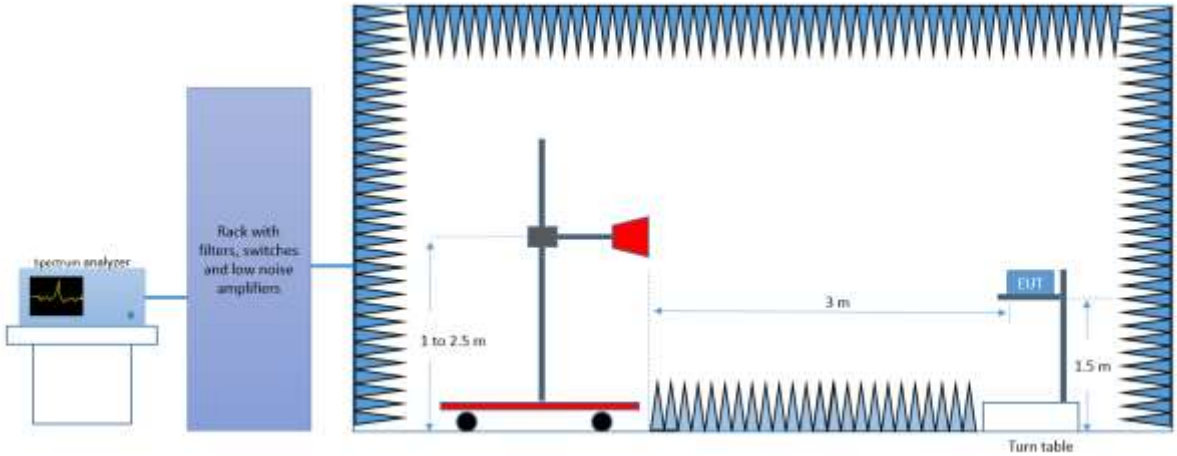
Test procedure:

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 from 1 to 4 meters, the EUT azimuth over 360º and for both Vertical and Horizontal polarizations.
The radiated spurious emission was measured on the worst case configuration found.

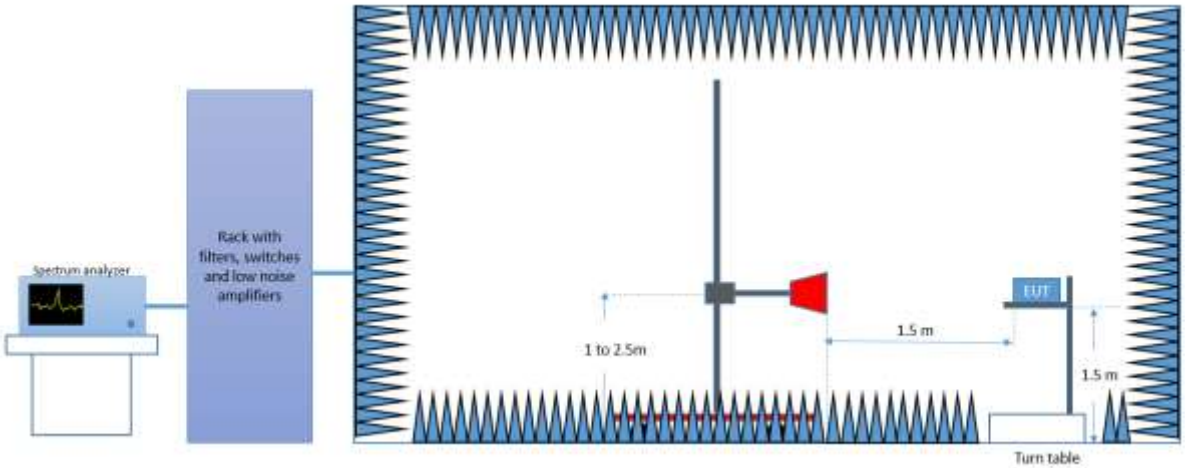
Radiated Setup < 1GHz



Radiated Setup 1GHz - 18GHz



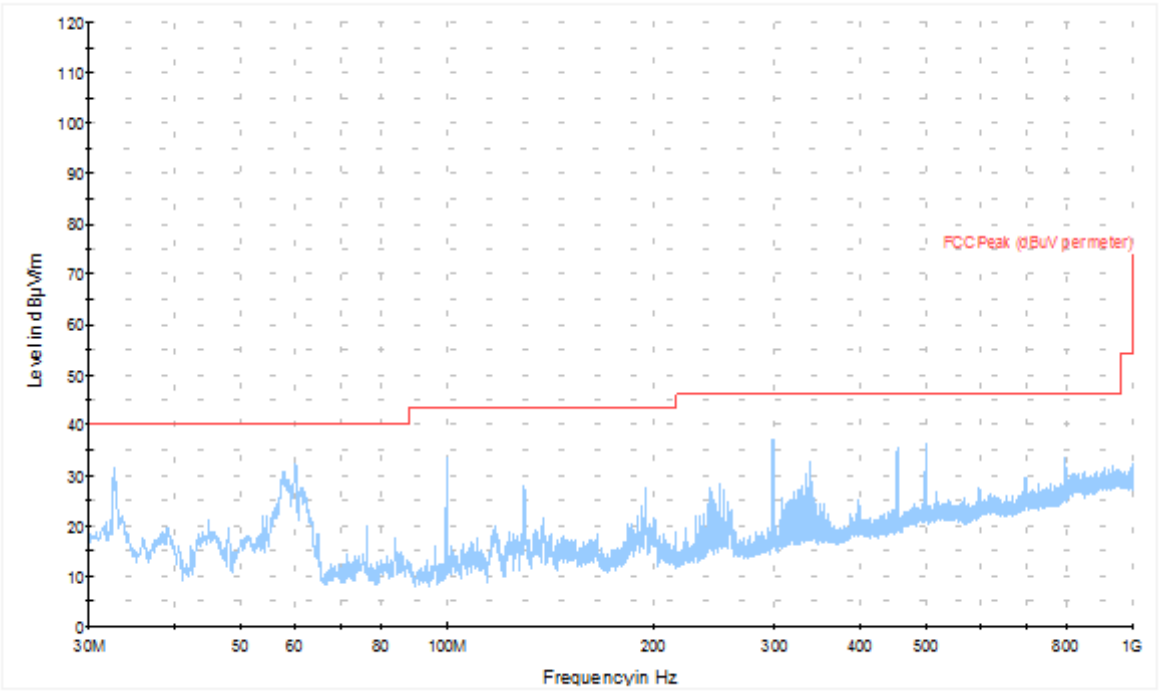
Radiated Setup 18 GHz - 25 GHz



Test result:

30 MHz – 1 GHz

Radiated Spurious – All Modes

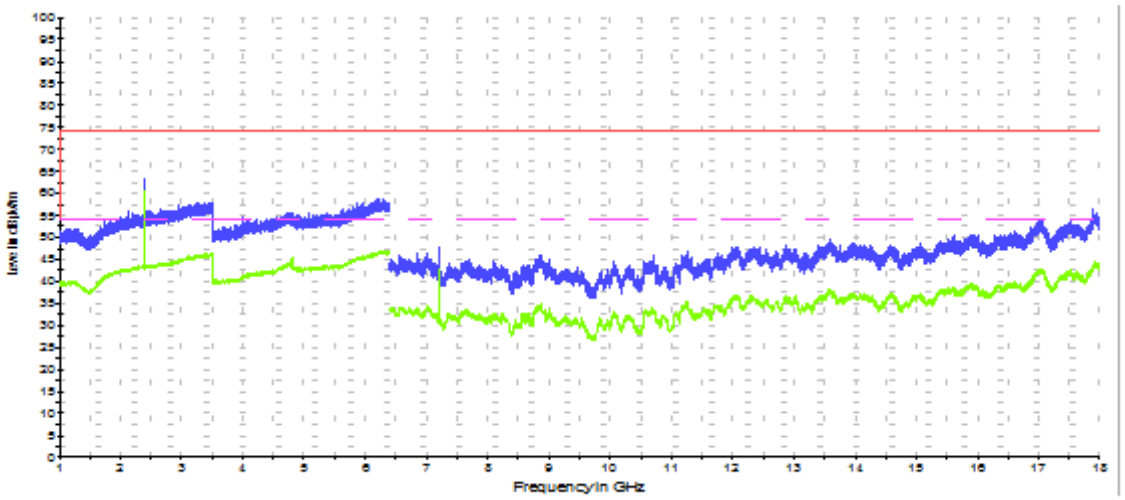


Frequency	Max Peak	Limit	Margin
MHz	dBuV/m	dBuV/m	dB
60.07	32.45	40.06	7.61

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.

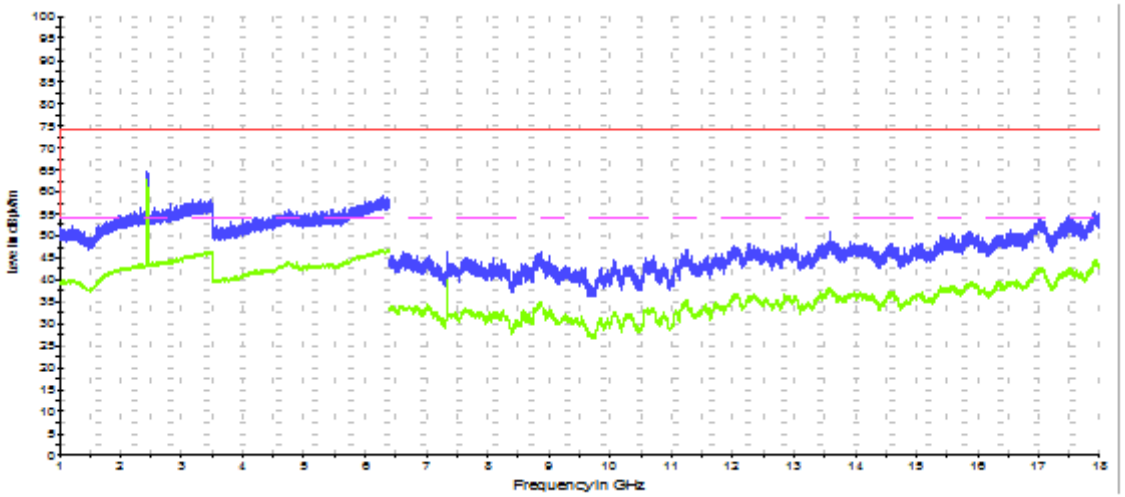
BR – GFSK – 1 GHz – 18 GHz

Radiated Spurious – Ch0 DH5



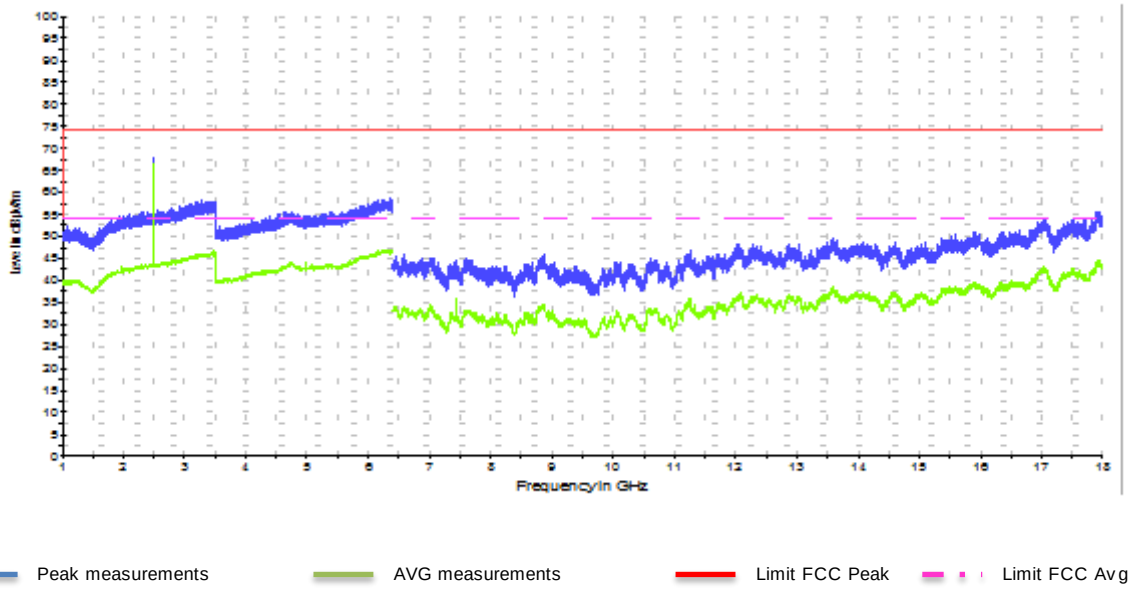
Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6390	58.1	-	74	15.9
6390	-	46.9	54	7.1

Radiated Spurious – Ch39 DH5



Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6392	58.3	-	74	15.7
6392	-	46.7	54	7.3

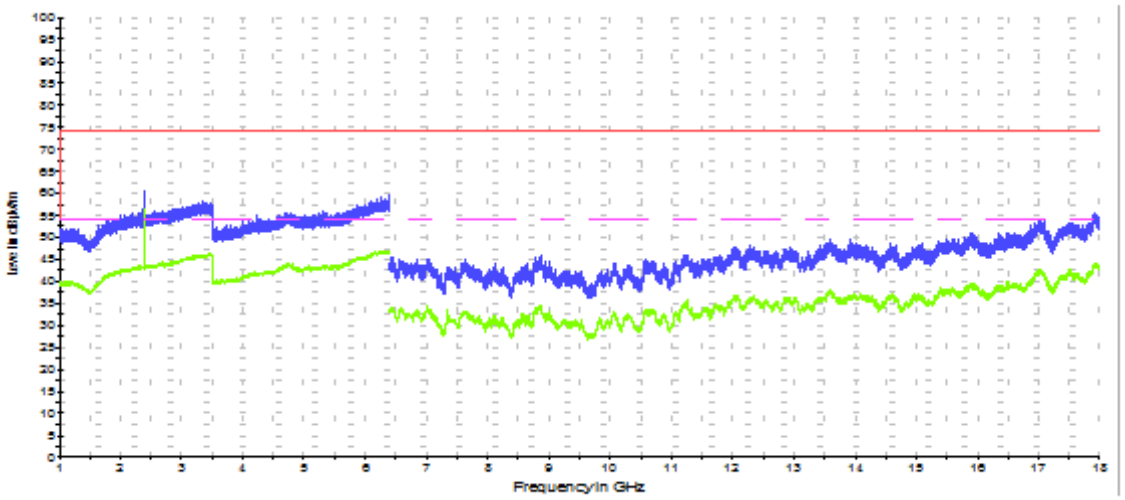
Radiated Spurious – Ch78 DH5



Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6392	59.1	-	74	14.9
6392	-	46.7	54	7.3

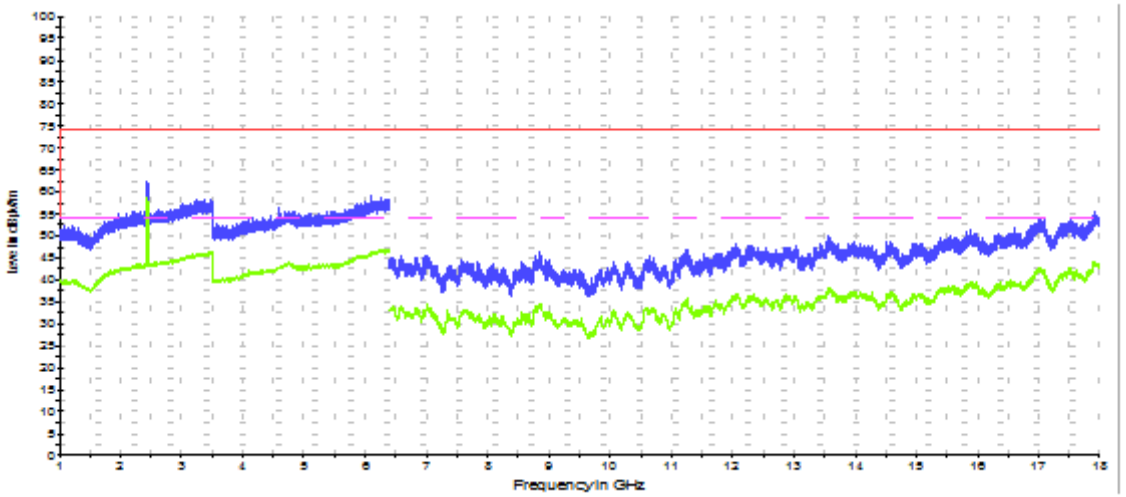
EDR – π/4-DQPSK – 1 GHz – 18 GHz

Radiated Spurious – Ch0 2DH5



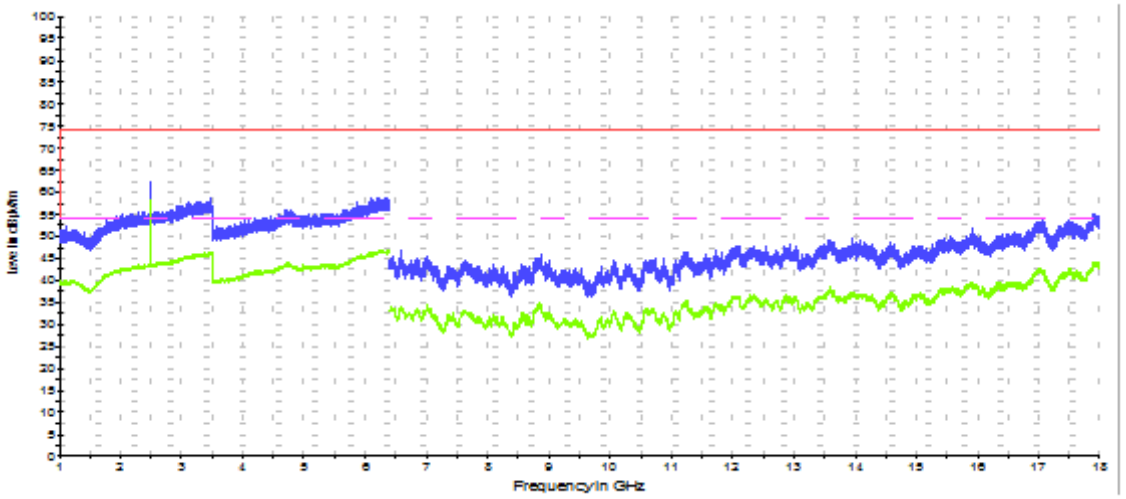
Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6382	59.5	-	74	14.5
6382	-	46.8	54	7.2

Radiated Spurious – Ch39 2DH5



Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6218	59.3	-	74	14.7
6218	-	46.9	54	7.1

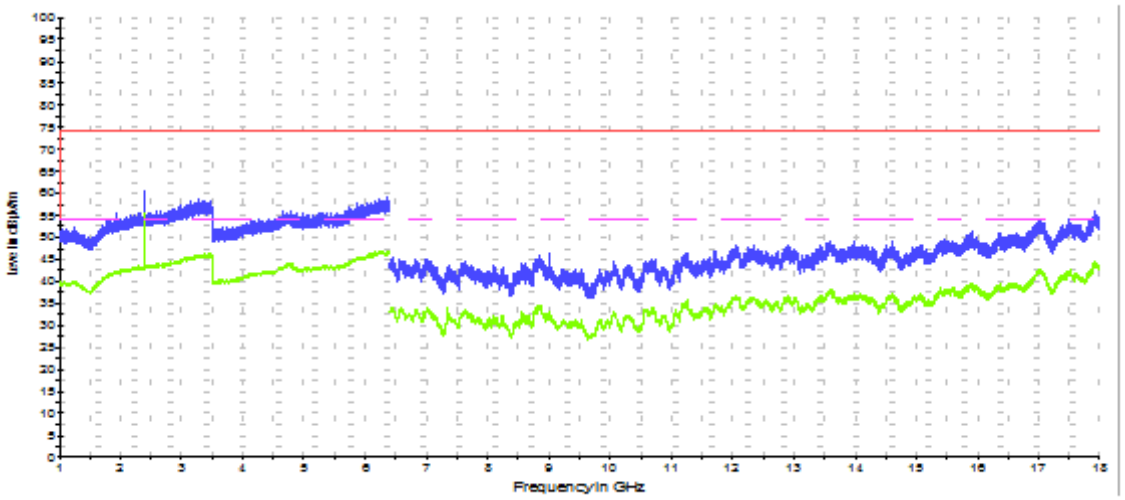
Radiated Spurious – Ch78 2DH5



Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6370	58.9	-	74	15.1
6370	-	46.9	54	7.1

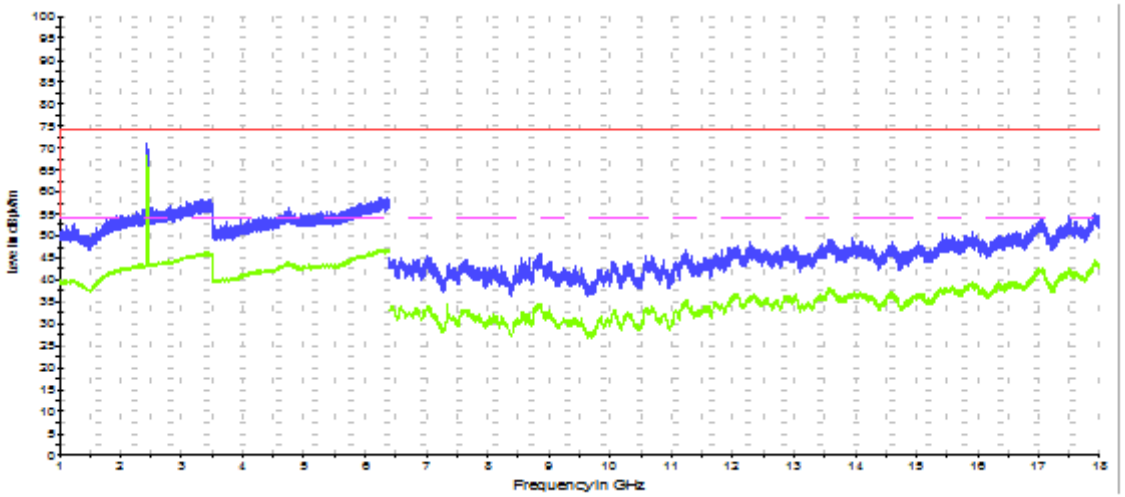
EDR – 8-DPSK – 1 GHz – 18 GHz

Radiated Spurious – Ch0 3DH5



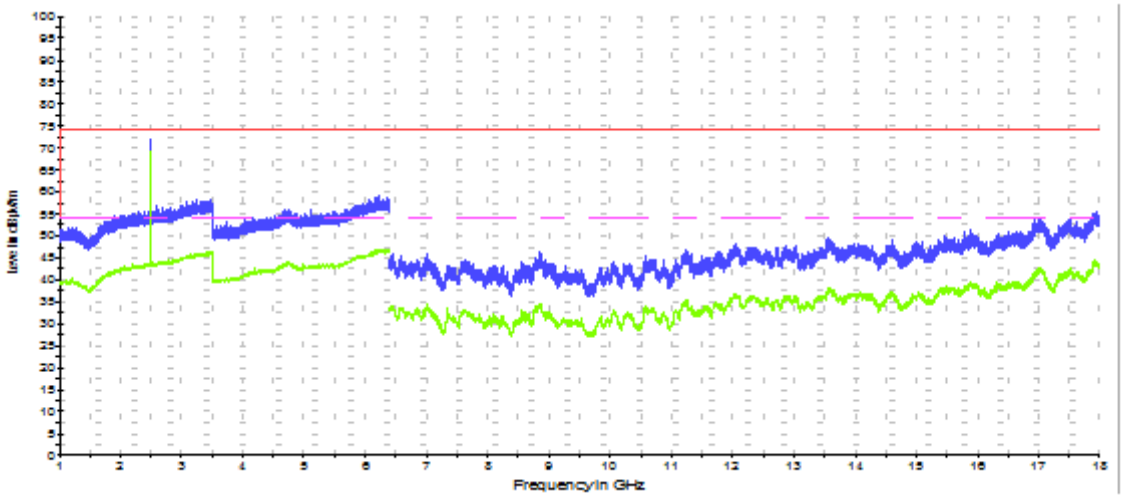
Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6384	59.4	-	74	14.6
6384	-	46.7	54	7.3

Radiated Spurious – Ch39 3DH5



Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6235	58.9	-	74	15.1
6235	-	46.9	54	7.1

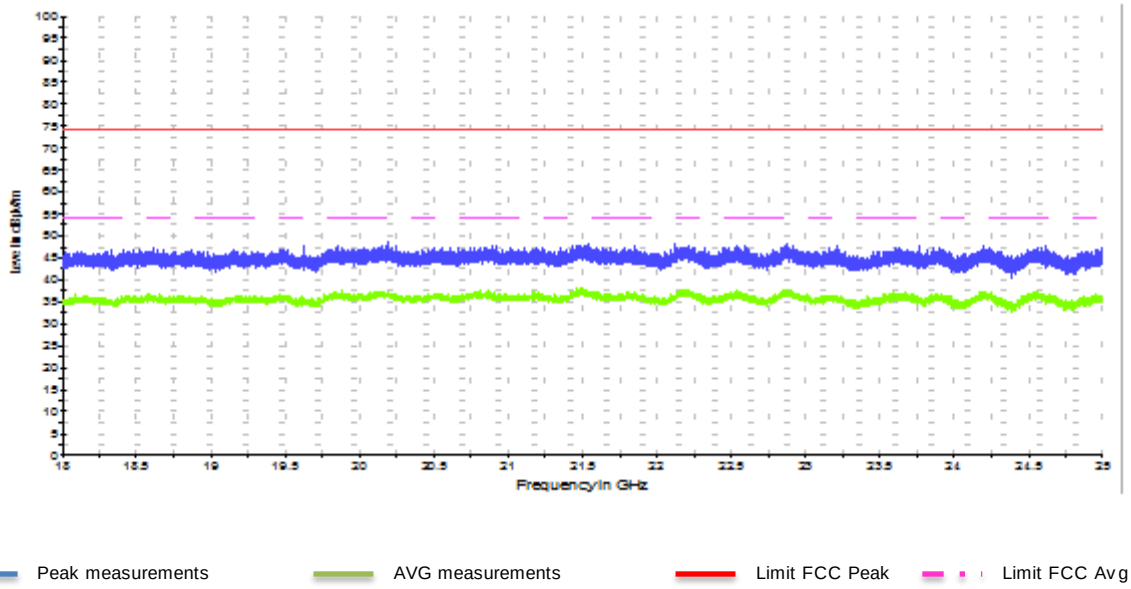
Radiated Spurious – Ch78 3DH5



Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
6316	58.8	-	74	15.2
6316	-	46.8	54	7.2

18 GHz – 25 GHz

Radiated Spurious – All Modes



Frequency	Max Peak	Avg	Limit	Margin
MHz	dBuV/m	dBuV/m	dBuV/m	dB
21498	47.6	-	74	26.4
21498	-	38.1	54	15.9

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.