

FCC RADIO TEST REPORT

FCC ID : PY7-54264H
Equipment : GSM/WCDMA/LTE Phone+Bluetooth,
DTS/UNII a/b/g/n/ac and NFC
Brand Name : Sony
Applicant : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Manufacturer : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Standard : FCC Part 15 Subpart C §15.247

The product was received on Nov. 01, 2018 and testing was started from Nov. 21, 2018 and completed on Dec. 19, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR8O2416-02A	01	Initial issue of report	Jan. 07, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(1)	Number of Channels	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	Pass	-
3.4	2.1049	99% Occupied Bandwidth	Reporting only	-
3.5	15.247(b)(1)	Peak Output Power	Pass	-
3.6	15.247(d)	Conducted Band Edges	Pass	-
3.7	15.247(d)	Conducted Spurious Emission	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 14.78 dB at 870.500 MHz
3.9	15.207	AC Conducted Emission	Pass	Under limit 15.62 dB at 0.641 MHz
3.10	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, NFC, and GNSS.

Standards-related Product Specification	
Antenna Type / Gain	Monopole Antenna with gain -4.70 dBi

EUT Information List			
HW Version	SW Version	S/N	Performed Test Item
A	0.160	BH9400S3E8	Conducted Emission
	0_30047_A_21_IET S_remount	BH9400RQE8	Radiated Spurious Emission
		BH9400KAE7	RF conducted measurement

Accessory List	
AC Adapter	Model No. : UCH20
	S/N: 3515W45302521 (for radiated emission) 3515W45302494 (for conducted emission)
Earphone	Model No. : STH40D
	S/N: N/A
USB Cable	Model No. : UCB20
	S/N : N/A

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
3. For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH16-HY	

Note: The test site complies with ANSI C63.4 2014 requirement.

1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	27	2429	54	2456
	1	2403	28	2430	55	2457
	2	2404	29	2431	56	2458
	3	2405	30	2432	57	2459
	4	2406	31	2433	58	2460
	5	2407	32	2434	59	2461
	6	2408	33	2435	60	2462
	7	2409	34	2436	61	2463
	8	2410	35	2437	62	2464
	9	2411	36	2438	63	2465
	10	2412	37	2439	64	2466
	11	2413	38	2440	65	2467
	12	2414	39	2441	66	2468
	13	2415	40	2442	67	2469
	14	2416	41	2443	68	2470
	15	2417	42	2444	69	2471
	16	2418	43	2445	70	2472
	17	2419	44	2446	71	2473
	18	2420	45	2447	72	2474
	19	2421	46	2448	73	2475
	20	2422	47	2449	74	2476
	21	2423	48	2450	75	2477
	22	2424	49	2451	76	2478
	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
	25	2427	52	2454	-	-
	26	2428	53	2455	-	-

2.2 Test Mode

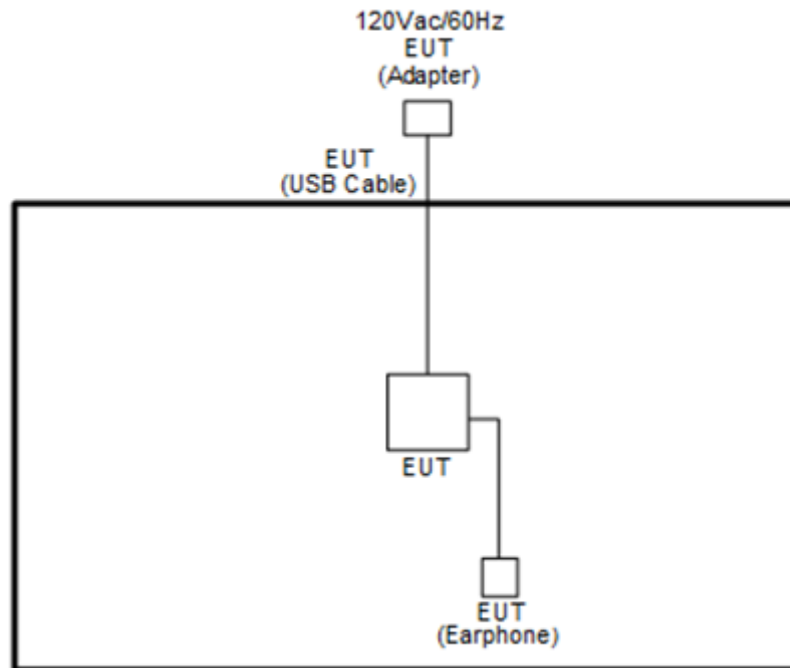
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

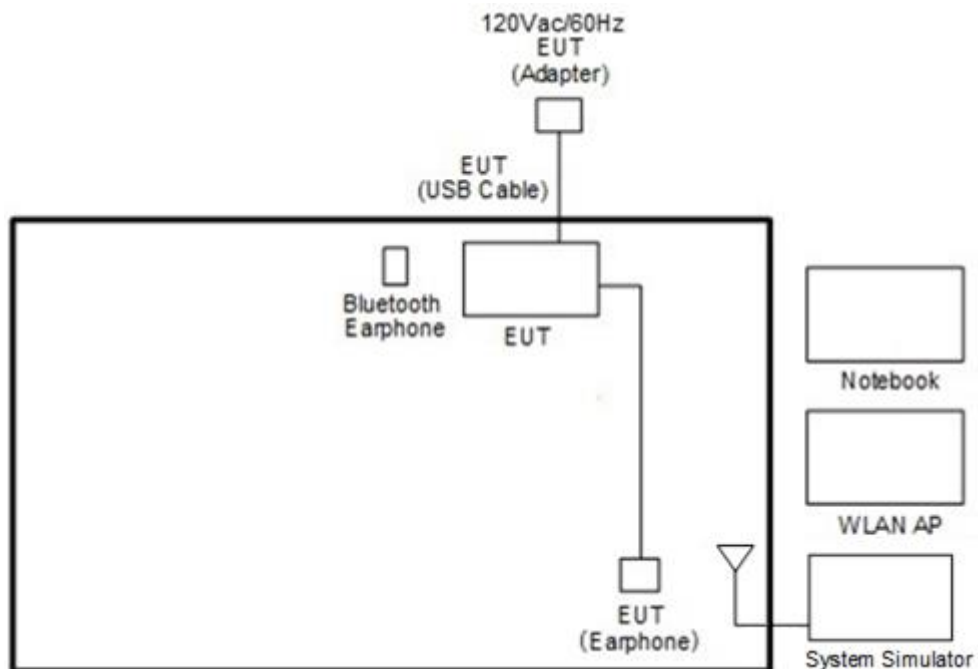
Summary table of Test Cases			
Test Item	Data Rate / Modulation		
	Bluetooth BR 1Mbps GFSK	Bluetooth EDR 2Mbps π /4-DQPSK	Bluetooth EDR 3Mbps 8-DPSK
Conducted Test Cases	Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz	Mode 4: CH00_2402 MHz Mode 5: CH39_2441 MHz Mode 6: CH78_2480 MHz	Mode 7: CH00_2402 MHz Mode 8: CH39_2441 MHz Mode 9: CH78_2480 MHz
Radiated Test Cases	Bluetooth 1Mbps GFSK / EDR 2Mbps π /4-DQPSK / EDR 3Mbps 8-DPSK		
	Mode 1: CH00_2402 MHz for 1Mbps Mode 2: CH39_2441 MHz for 1Mbps Mode 3: CH78_2480 MHz for 1Mbps Mode 4: CH00_2402 MHz for 2Mbps Mode 5: CH39_2441 MHz for 2Mbps Mode 6: CH78_2480 MHz for 2Mbps Mode 7: CH00_2402 MHz for 3Mbps Mode 8: CH39_2441 MHz for 3Mbps Mode 9: CH78_2480 MHz for 3Mbps		
AC Conducted Emission	Mode 1 :GSM850 Idle + Bluetooth Link + WLAN (2.4GHz) Link + MP3 + Earphone + Battery + USB Cable (Charging from Adapter)		

2.3 Connection Diagram of Test System

<Bluetooth Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony	SBH20	PY7-RD0010	N/A	N/A
4.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation;
RBW = 300kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

3.1.4 Test Setup

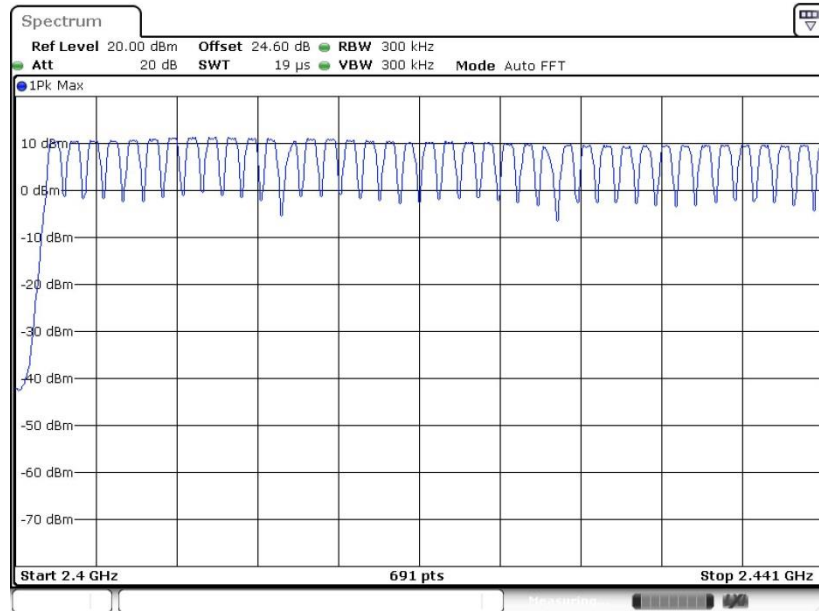




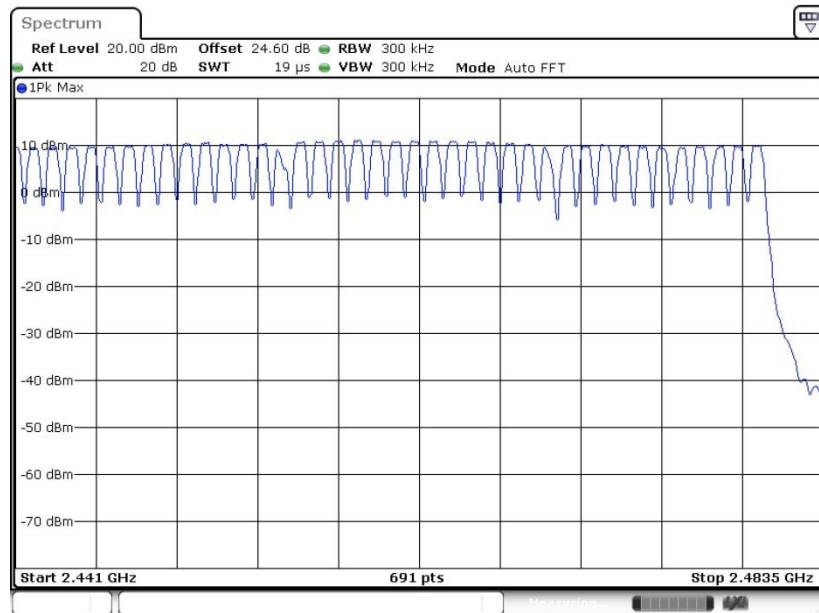
3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.

Number of Hopping Channel Plot on Channel 00 - 78



Date: 8 DEC.2018 20:38:25



Date: 8 DEC.2018 20:39:05

3.2 Hopping Channel Separation Measurement

3.2.1 Limit of Hopping Channel Separation

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.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels;
RBW = 300kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.2.4 Test Setup



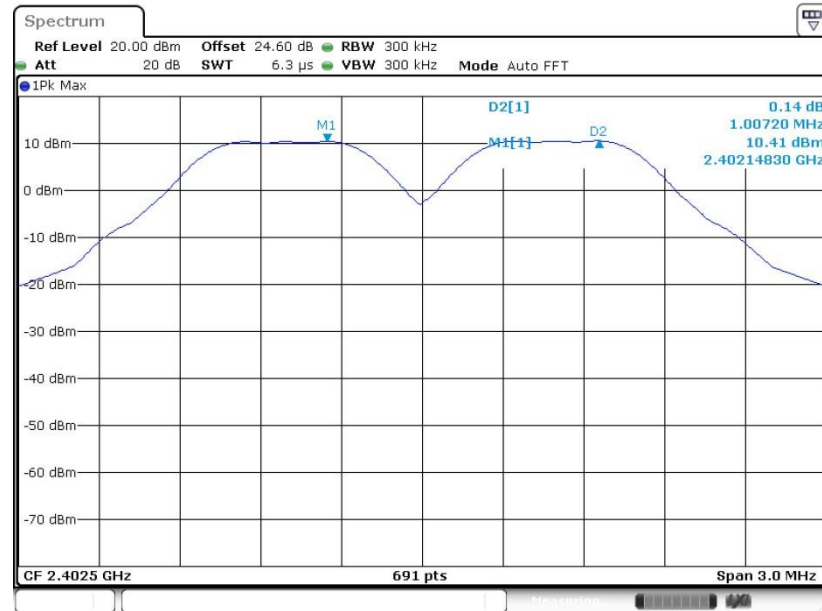
3.2.5 Test Result of Hopping Channel Separation

Please refer to Appendix A.



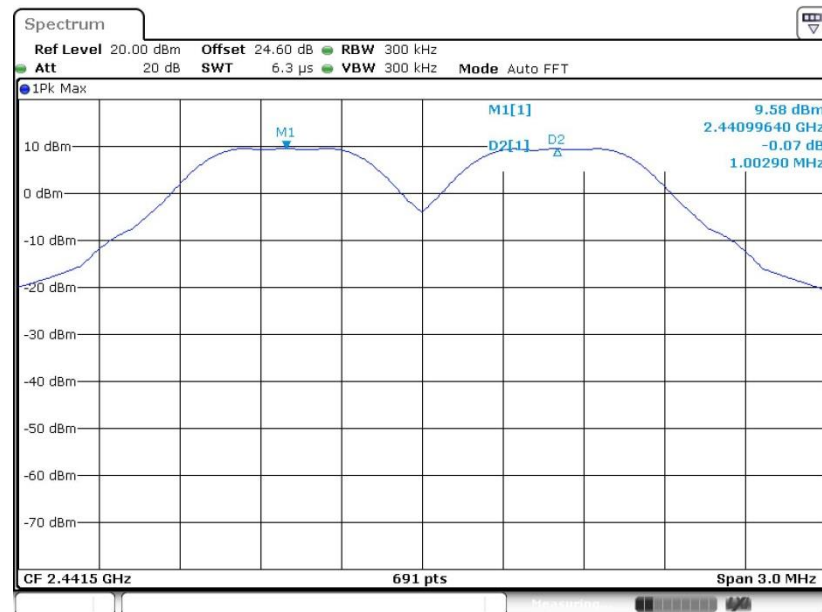
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Channel Separation Plot on Channel 00 - 01



Date: 8 DEC.2018 20:32:24

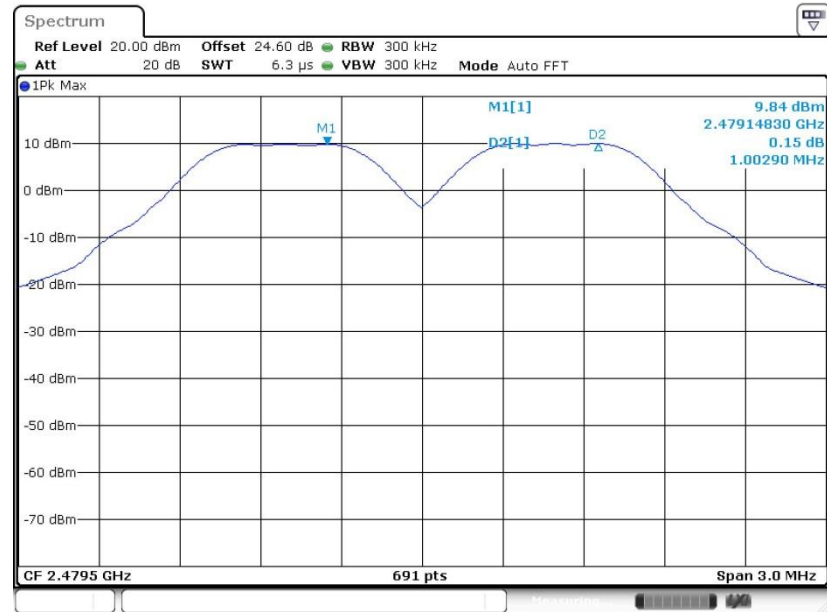
Channel Separation Plot on Channel 39 - 40



Date: 8 DEC.2018 20:50:04



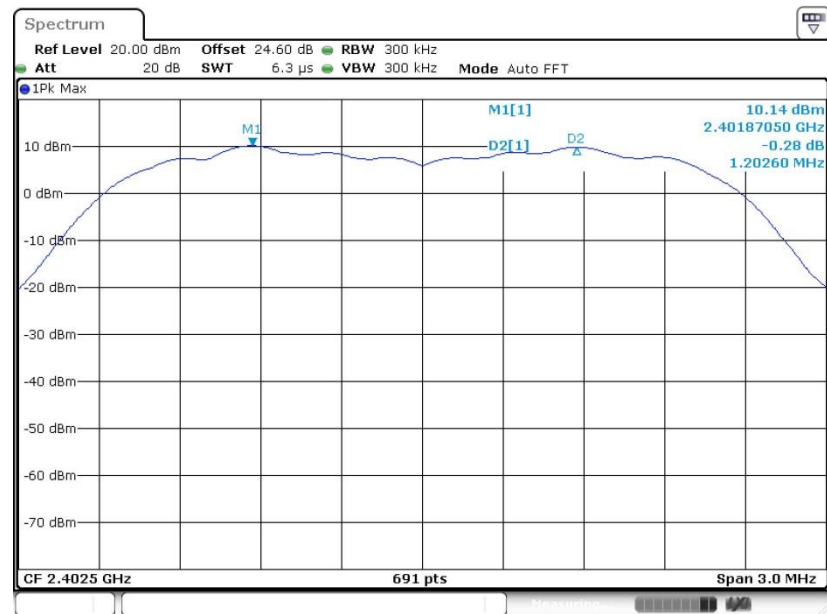
Channel Separation Plot on Channel 77 - 78



Date: 8 DEC.2018 20:44:16

<2Mbps>

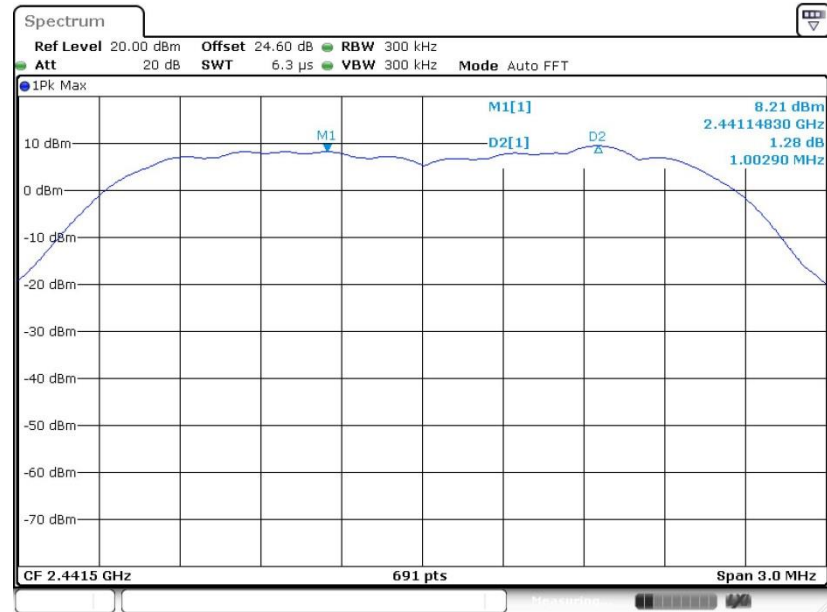
Channel Separation Plot on Channel 00 - 01



Date: 8 DEC.2018 20:59:44

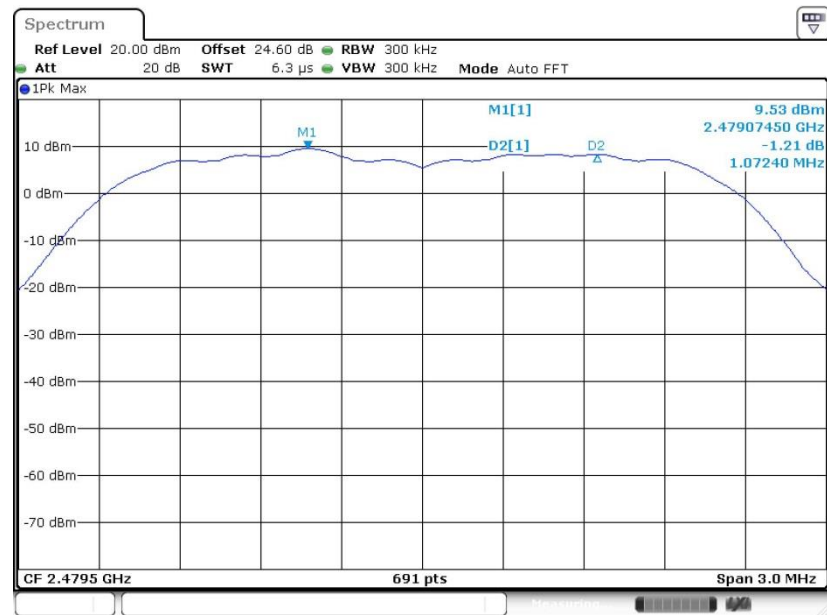


Channel Separation Plot on Channel 39 - 40



Date: 8 DEC.2018 20:58:11

Channel Separation Plot on Channel 77 - 78

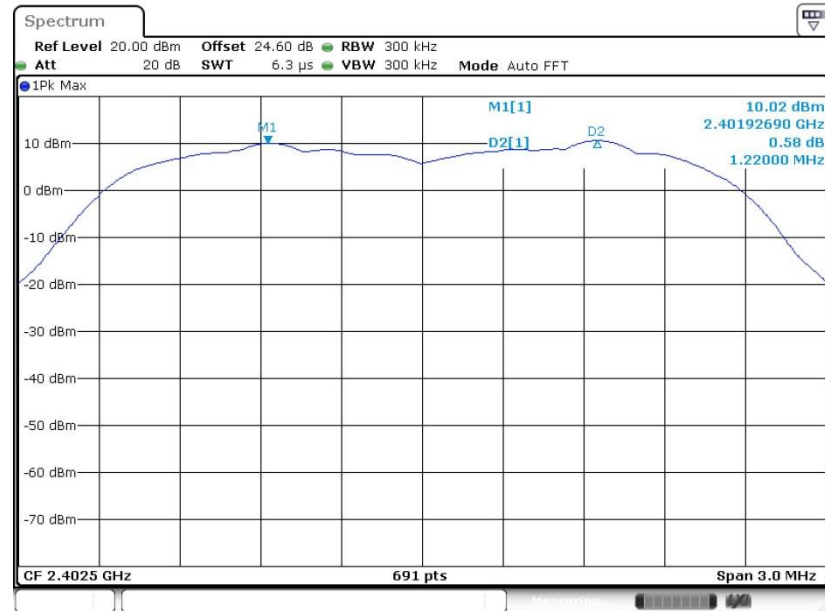


Date: 8 DEC.2018 21:12:41



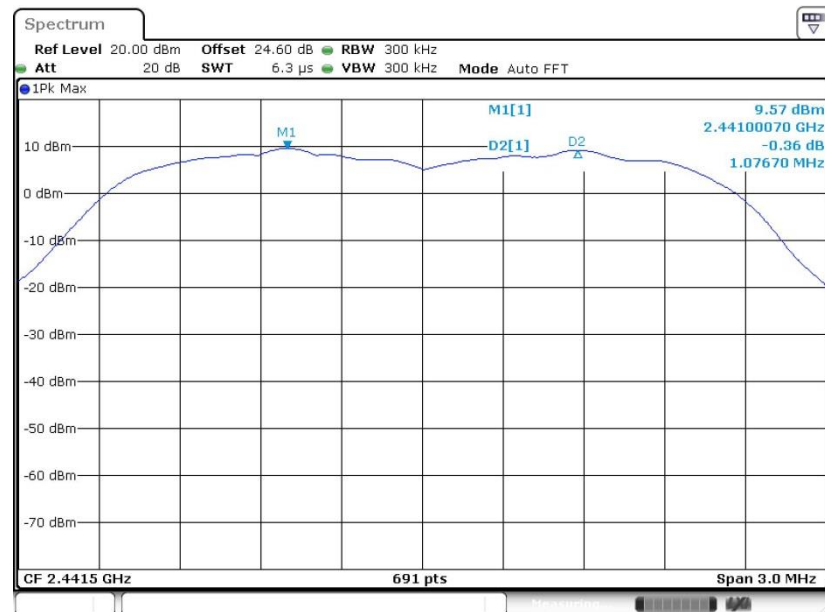
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Channel Separation Plot on Channel 00 - 01



Date: 8 DEC.2018 21:21:15

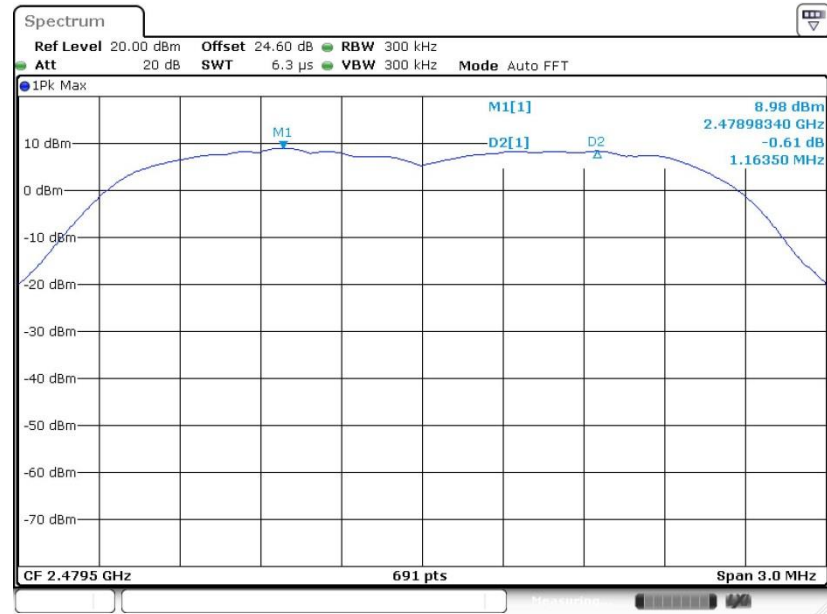
Channel Separation Plot on Channel 39 - 40



Date: 8 DEC.2018 21:57:48



Channel Separation Plot on Channel 77 - 78



Date: 8 DEC.2018 21:33:47

3.3 Dwell Time Measurement

3.3.1 Limit of Dwell Time

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.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

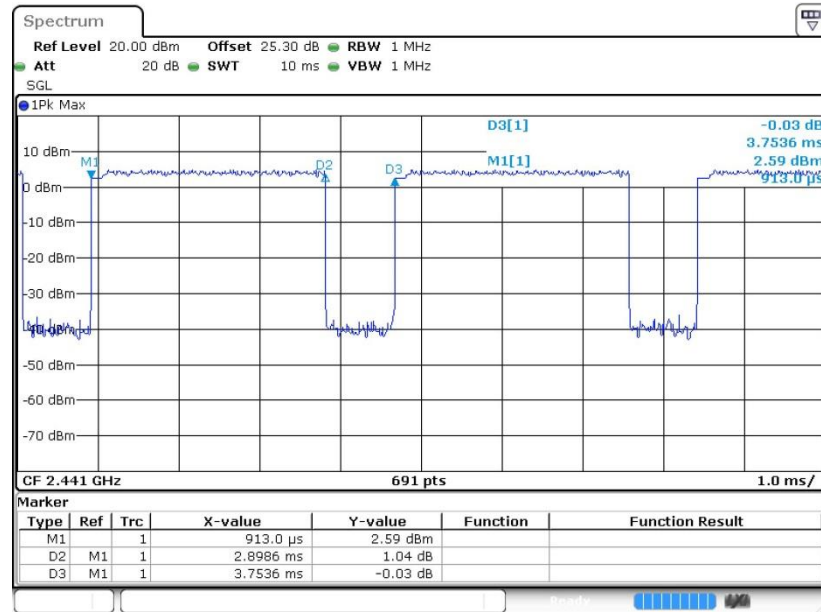
1. The testing follows ANSI C63.10-2013 clause 7.8.4.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Dwell Time

Please refer to Appendix A.

Package Transfer Time Plot


Date: 20.NOV.2018 23:08:43

Remark:

1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.
2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

3.4 20dB and 99% Bandwidth Measurement

3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 6.9.2 and 6.9.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;
RBW $\geq$ 1% of the 20 dB bandwidth; VBW $\geq$ RBW; Sweep = auto; Detector function = peak;
Trace = max hold.
5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;
RBW $\geq$ 1-5% of the 99% bandwidth; VBW $\geq$ 3 * RBW; Sweep = auto; Detector function = peak;
Trace = max hold.
6. Measure and record the results in the test report.

3.4.4 Test Setup



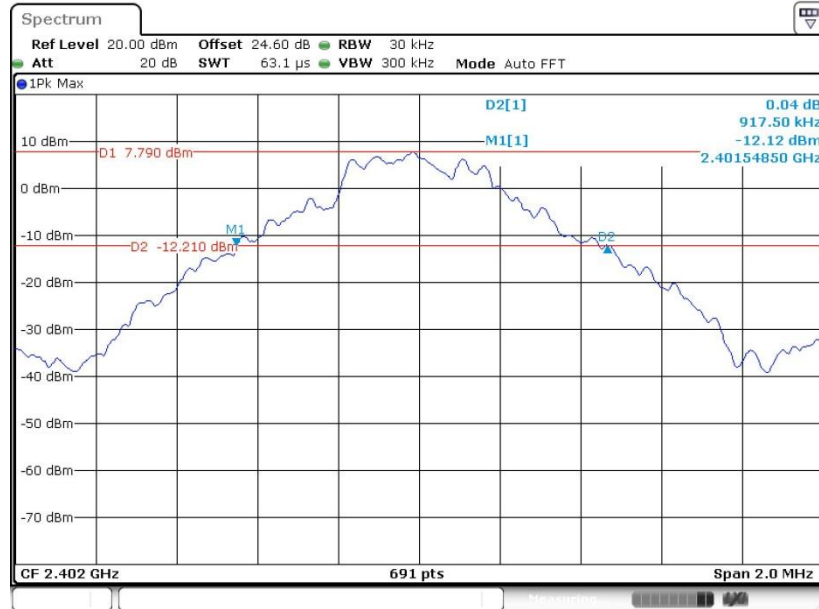
3.4.5 Test Result of 20dB Bandwidth

Please refer to Appendix A.



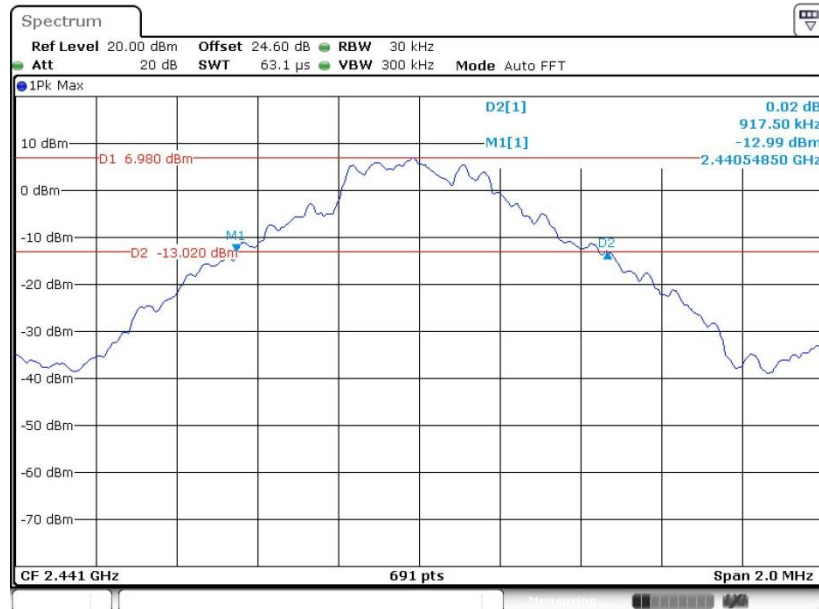
<1Mbps>

20 dB Bandwidth Plot on Channel 00



Date: 8.DEC.2018 20:33:54

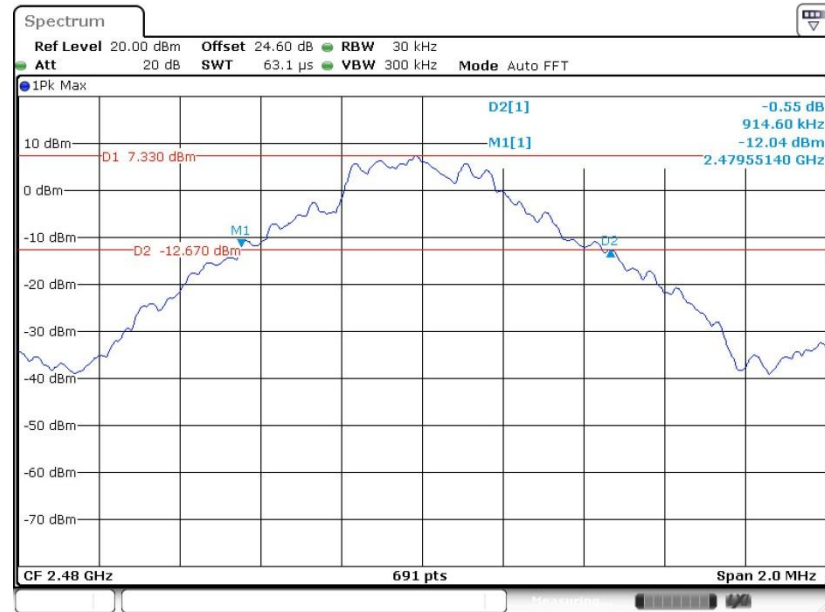
20 dB Bandwidth Plot on Channel 39



Date: 8.DEC.2018 20:48:45



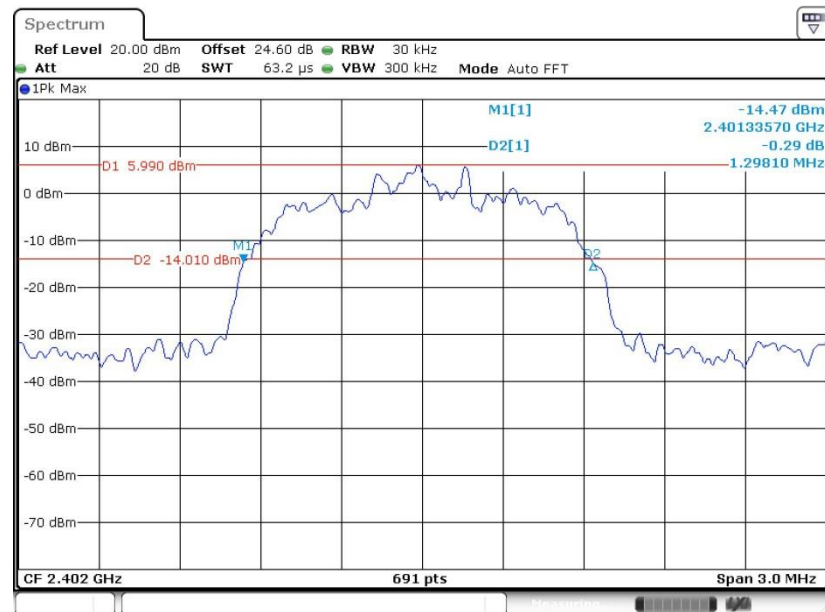
20 dB Bandwidth Plot on Channel 78



Date: 8 DEC.2018 20:45:34

<2Mbps>

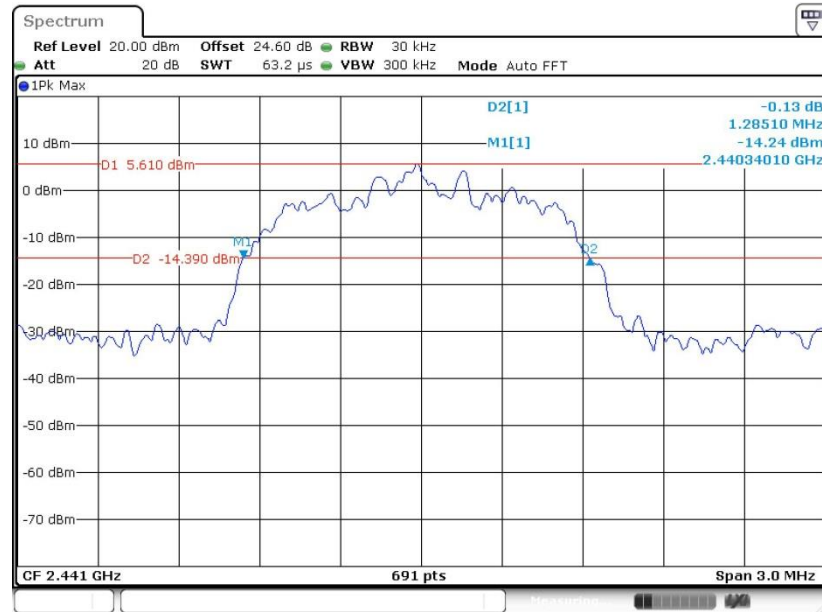
20 dB Bandwidth Plot on Channel 00



Date: 8 DEC.2018 21:00:58

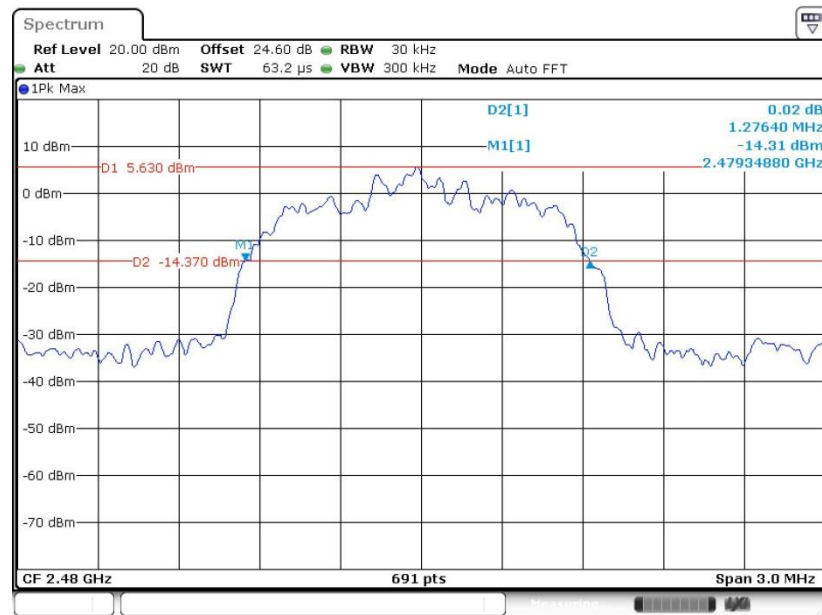


20 dB Bandwidth Plot on Channel 39



Date: 8.DEC.2018 20:56:58

20 dB Bandwidth Plot on Channel 78

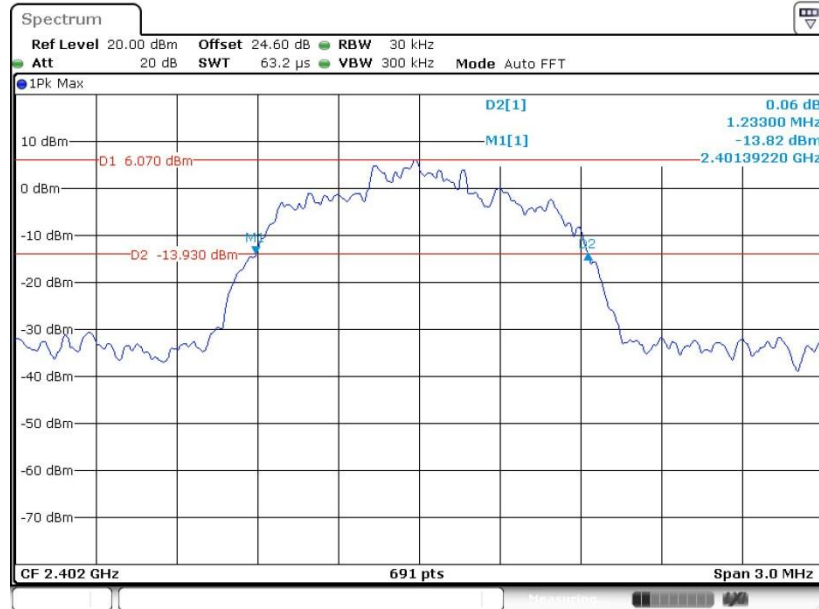


Date: 8.DEC.2018 21:13:33



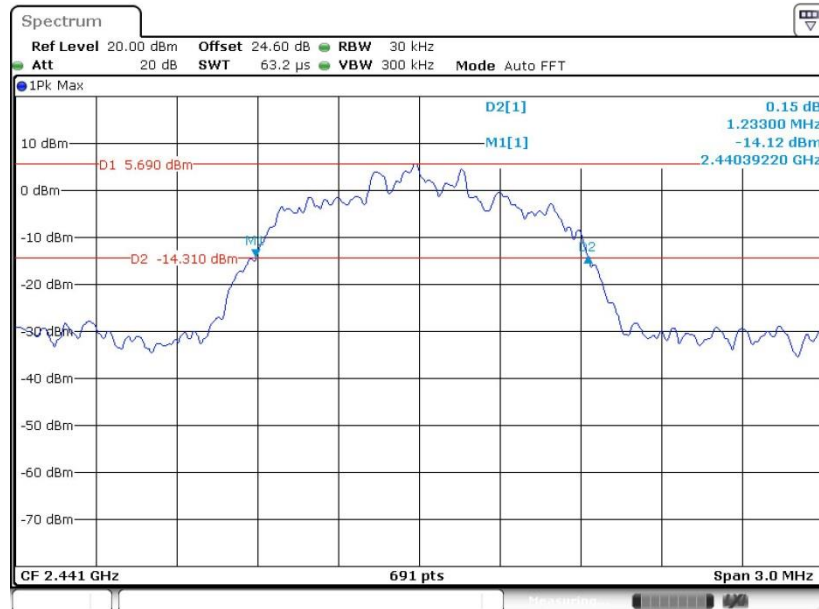
<3Mbps>

20 dB Bandwidth Plot on Channel 00



Date: 8 DEC.2018 21:23:04

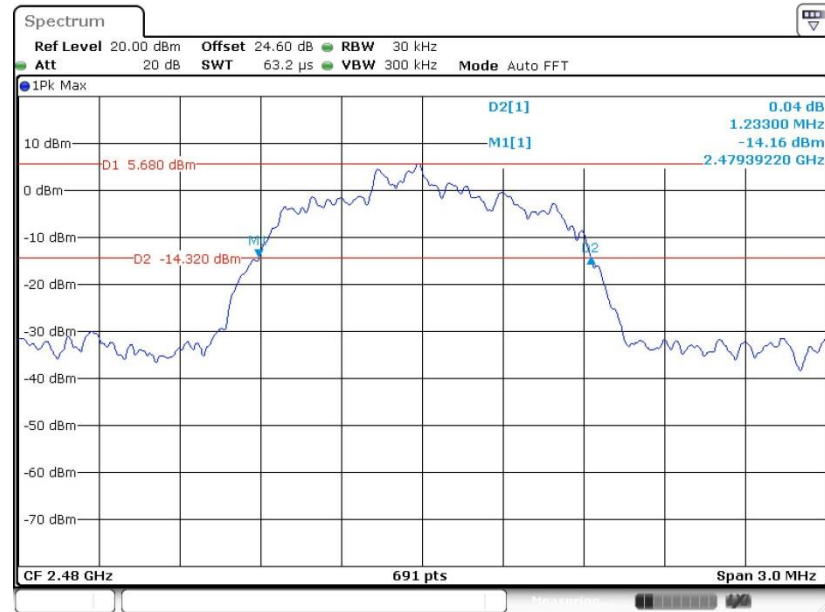
20 dB Bandwidth Plot on Channel 39



Date: 8 DEC.2018 21:44:14



20 dB Bandwidth Plot on Channel 78



Date: 8 DEC.2018 21:34:52



3.4.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

<1Mbps>

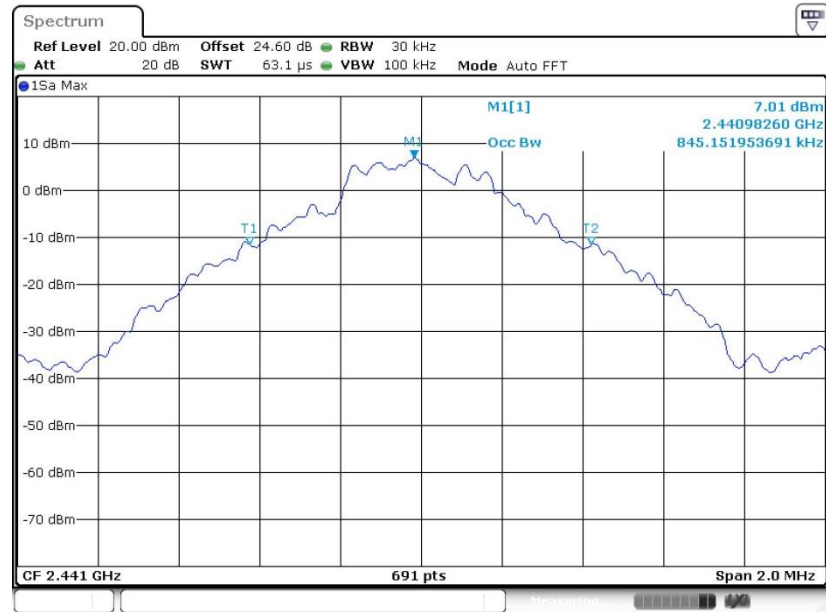
99% Occupied Bandwidth Plot on Channel 00



Date: 8.DEC.2018 20:35:53

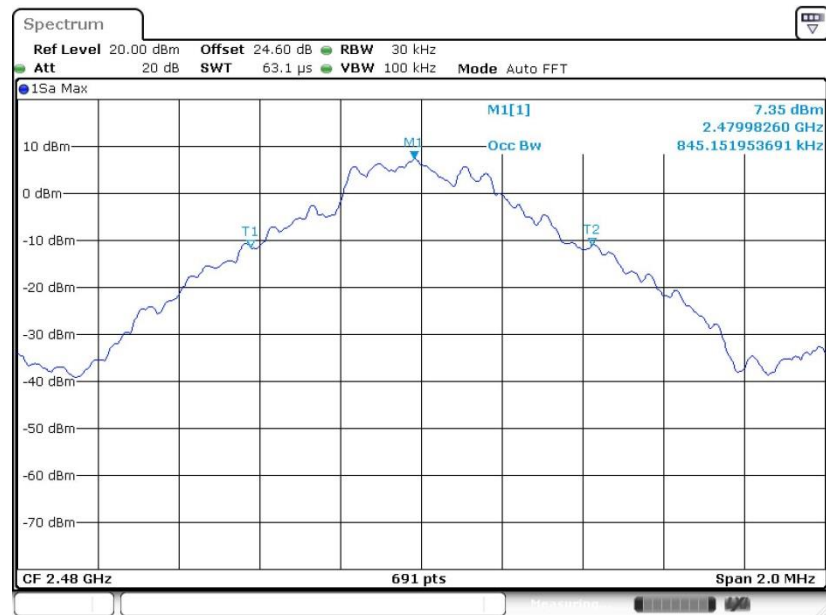


99% Occupied Bandwidth Plot on Channel 39



Date: 8.DEC.2018 20:50:43

99% Occupied Bandwidth Plot on Channel 78

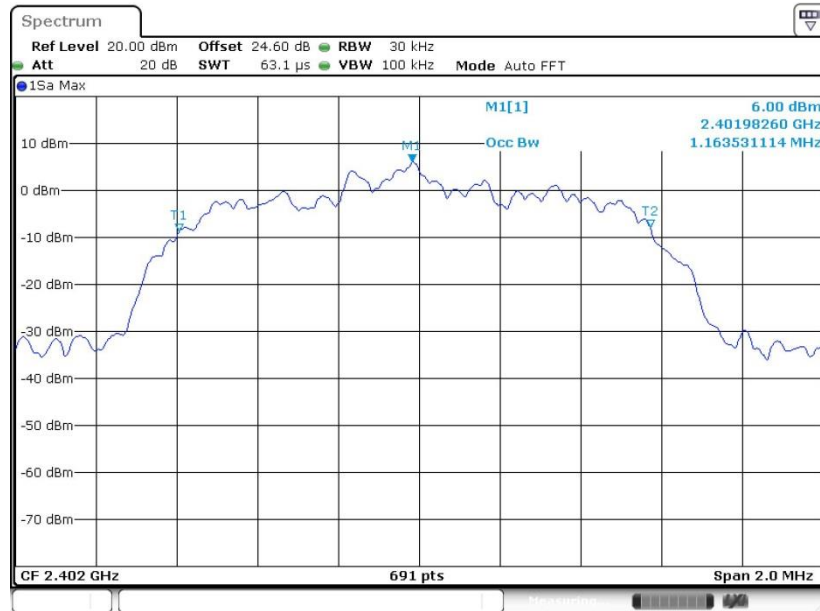


Date: 8.DEC.2018 20:40:51



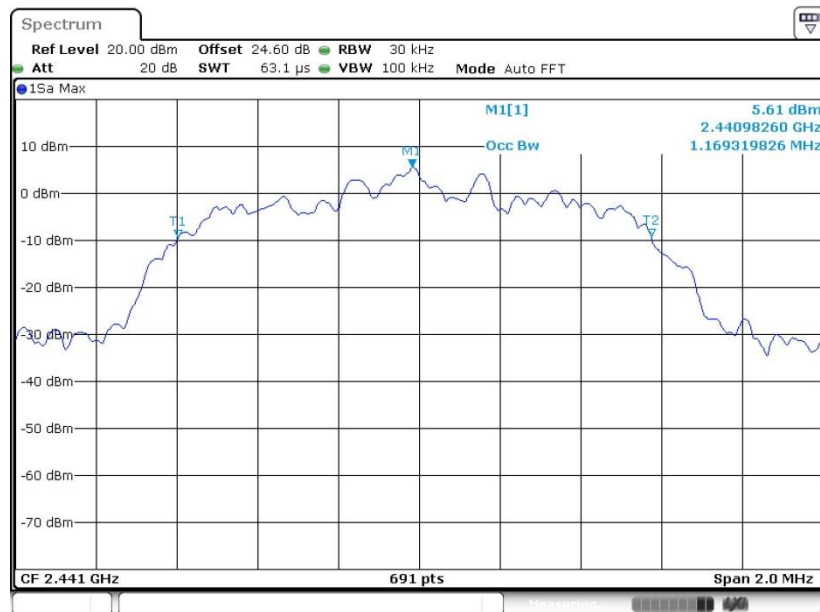
<2Mbps>

99% Occupied Bandwidth Plot on Channel 00



Date: 8.DEC.2018 21:02:49

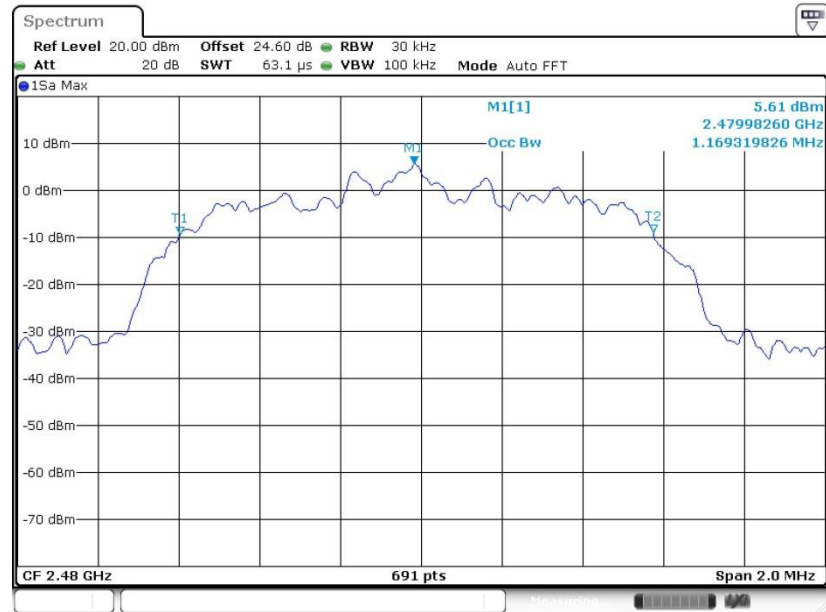
99% Occupied Bandwidth Plot on Channel 39



Date: 8.DEC.2018 20:53:35



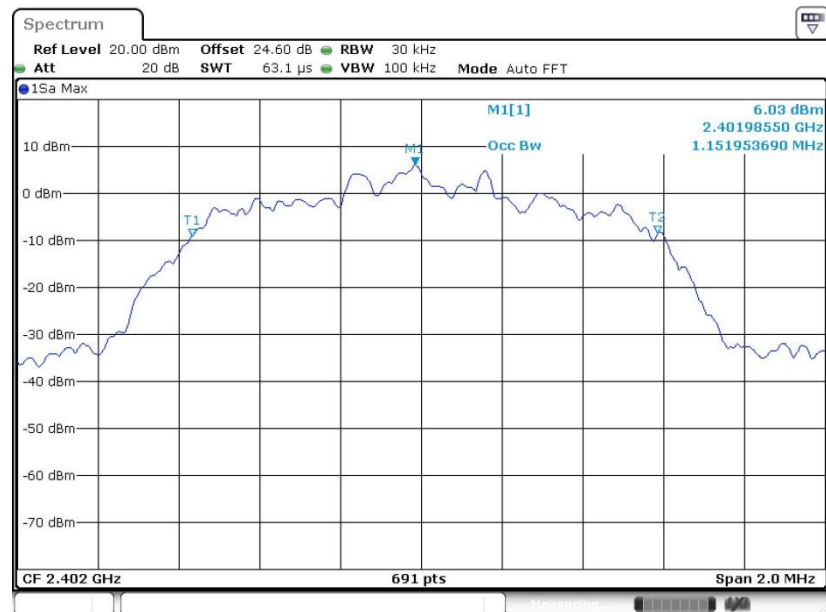
99% Occupied Bandwidth Plot on Channel 78



Date: 8.DEC.2018 21:09:03

<3Mbps>

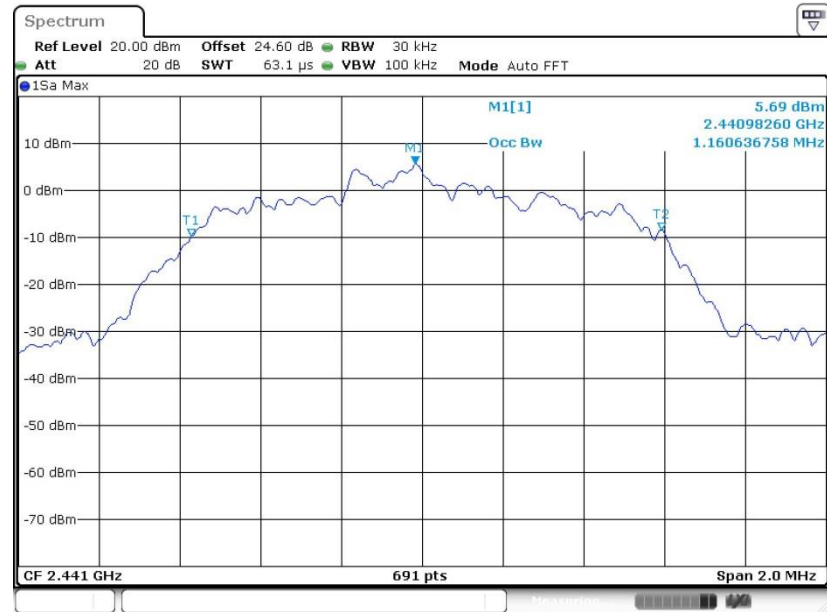
99% Occupied Bandwidth Plot on Channel 00



Date: 8.DEC.2018 21:24:12

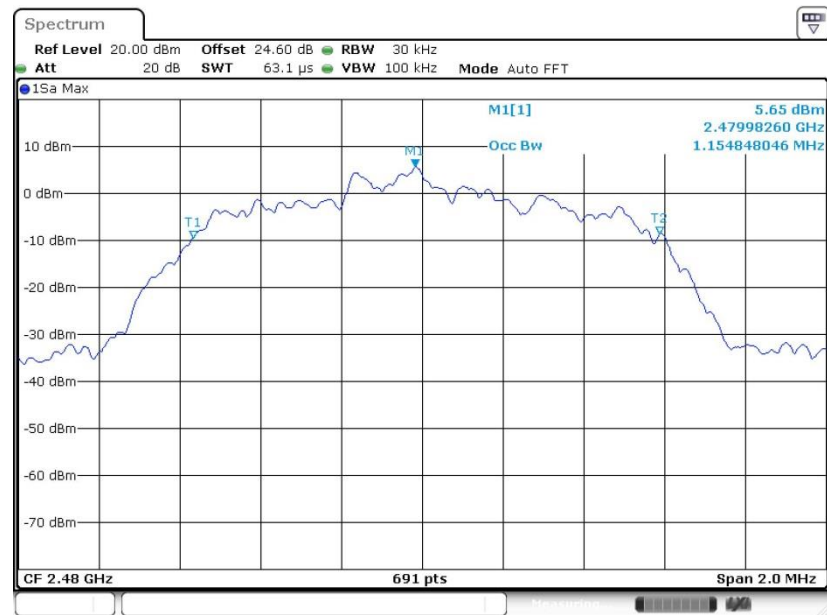


99% Occupied Bandwidth Plot on Channel 39



Date: 8 DEC.2018 21:35:40

99% Occupied Bandwidth Plot on Channel 78



Date: 8 DEC.2018 21:28:44

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.5 Output Power Measurement

3.5.1 Limit of Output Power

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. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. The power limit for 1Mbps, 2Mbps, 3Mbps and AFH modes are 0.125 watts.

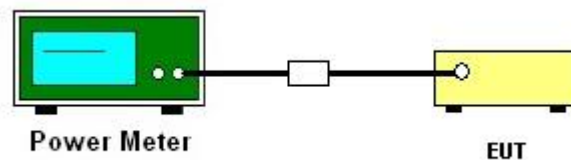
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.5.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

3.5.4 Test Setup



3.5.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.5.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.6 Conducted Band Edges Measurement

3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.6.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Set RBW = 100kHz, VBW = 300kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2. and 3.
5. Measure and record the results in the test report.

3.6.4 Test Setup

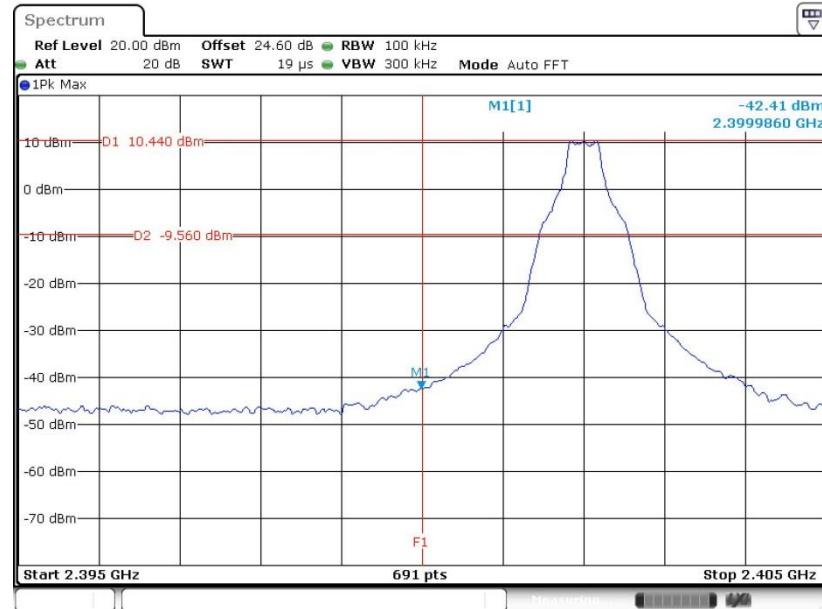




3.6.5 Test Result of Conducted Band Edges

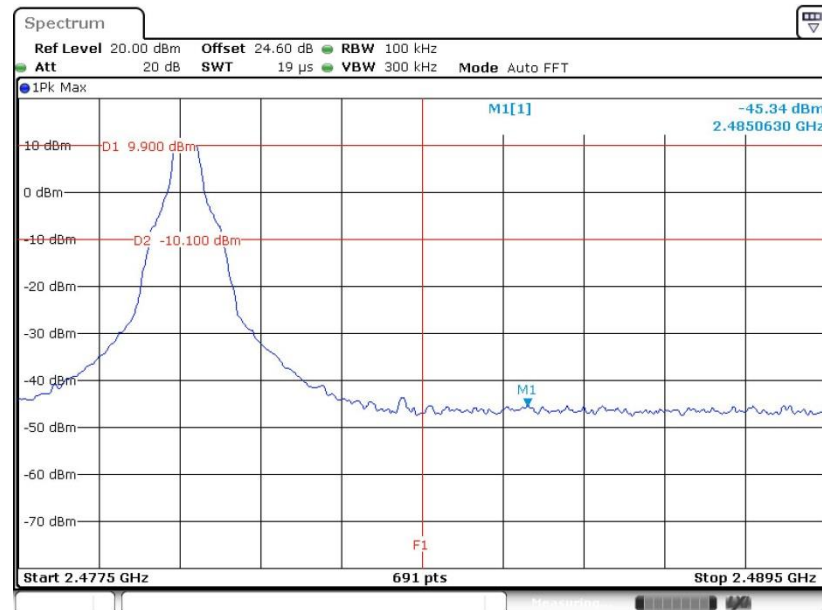
<1Mbps>

Low Band Edge Plot on Channel 00



Date: 8 DEC.2018 20:35:18

High Band Edge Plot on Channel 78

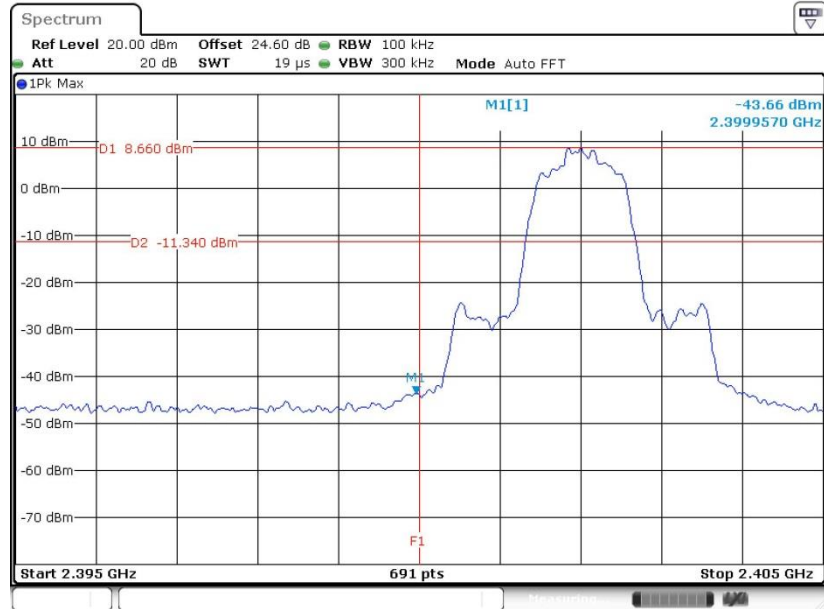


Date: 8 DEC.2018 20:42:32



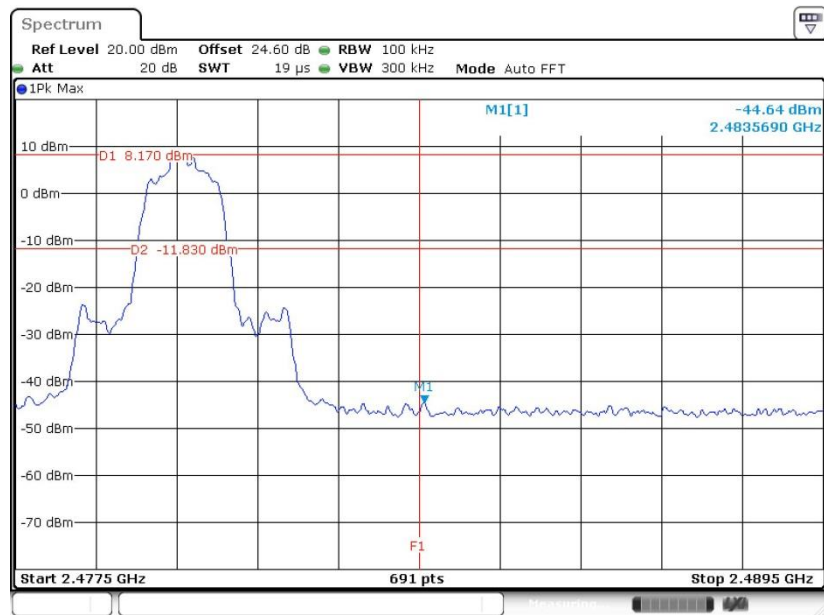
<2Mbps>

Low Band Edge Plot on Channel 00



Date: 8.DEC.2018 21:01:26

High Band Edge Plot on Channel 78

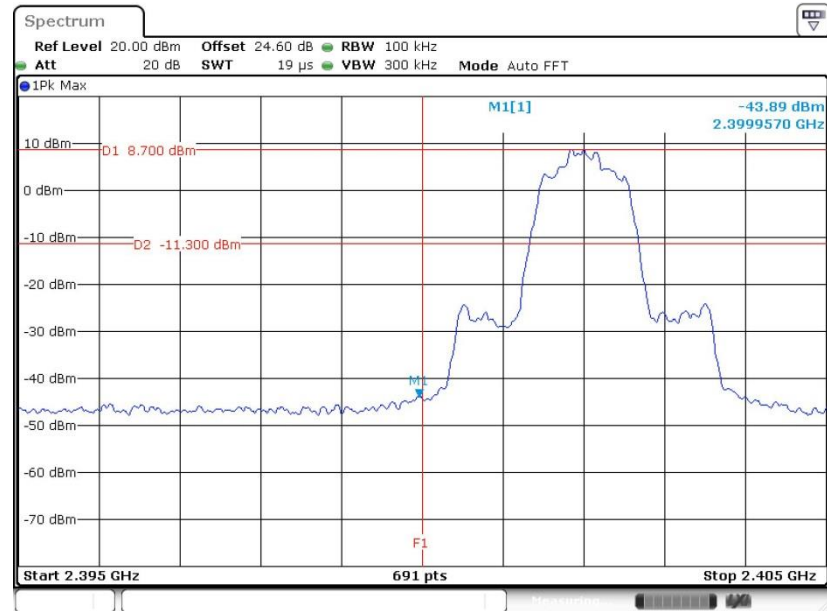


Date: 8.DEC.2018 21:11:25



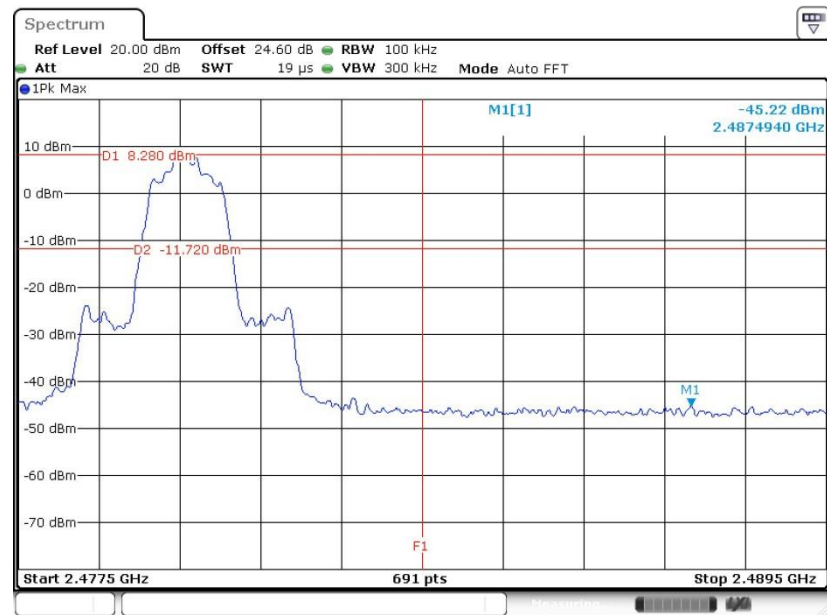
<3Mbps>

Low Band Edge Plot on Channel 00



Date: 8 DEC.2018 21:23:27

High Band Edge Plot on Channel 78



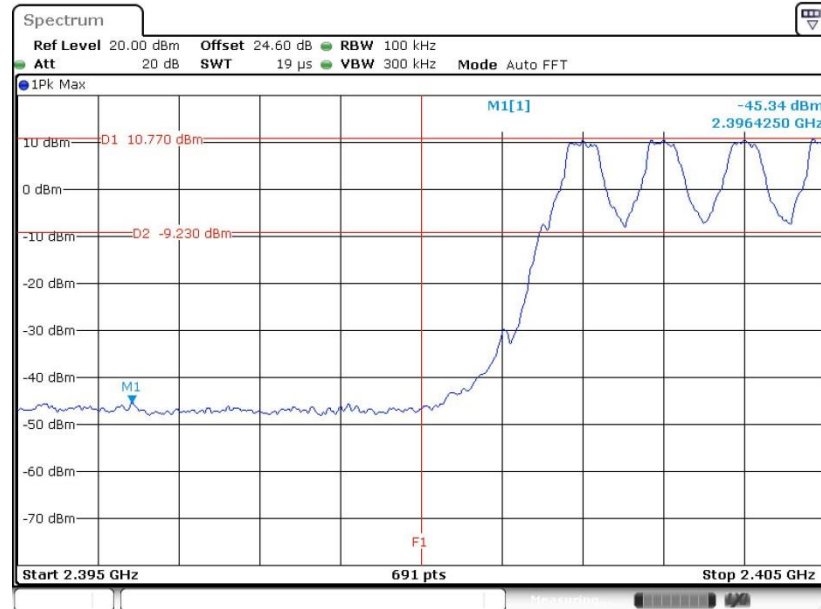
Date: 8 DEC.2018 21:28:02



3.6.6 Test Result of Conducted Hopping Mode Band Edges

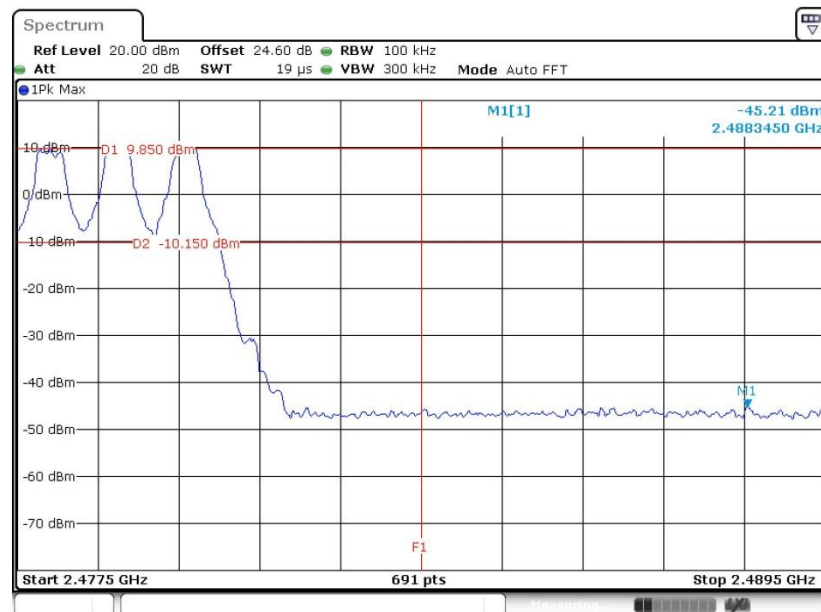
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Hopping Mode Low Band Edge Plot



Date: 8 DEC.2018 20:39:28

Hopping Mode High Band Edge Plot

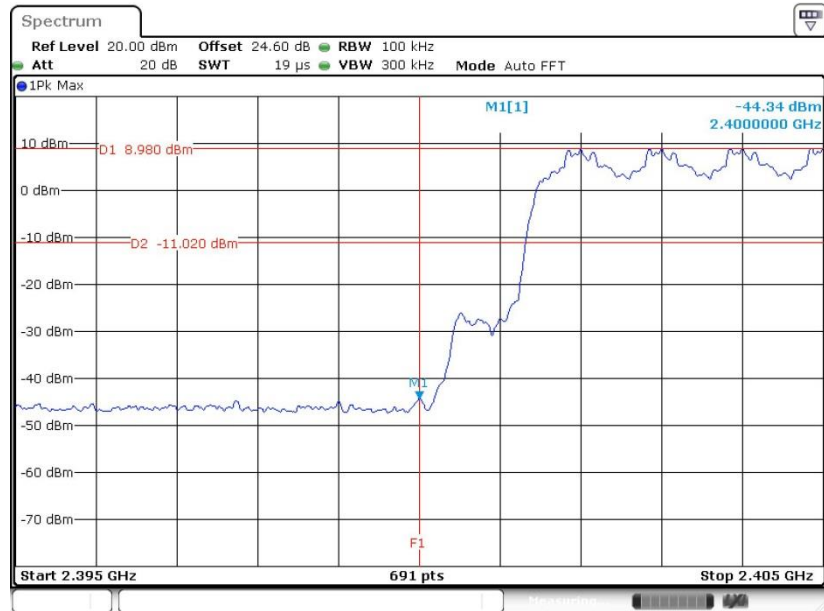


Date: 8 DEC.2018 20:40:04



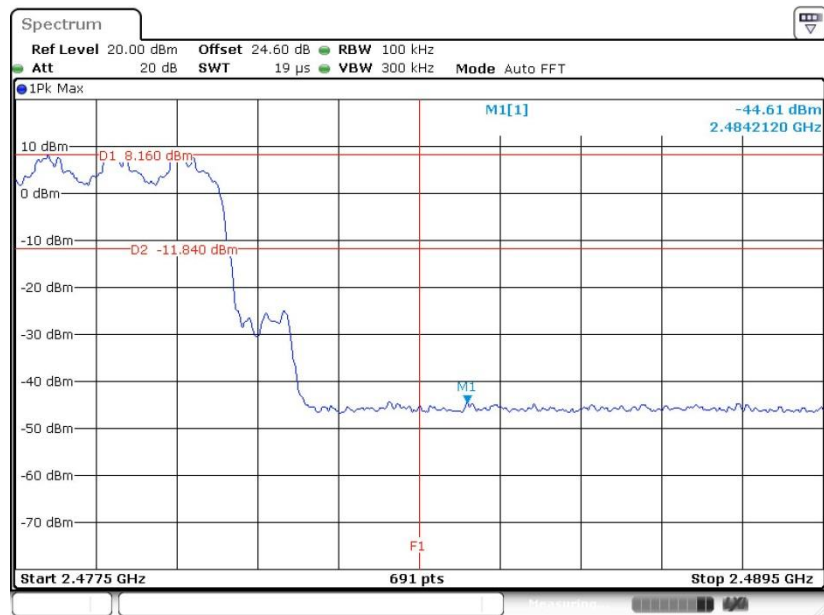
<2Mbps>

Hopping Mode Low Band Edge Plot



Date: 8 DEC.2018 21:06:42

Hopping Mode High Band Edge Plot

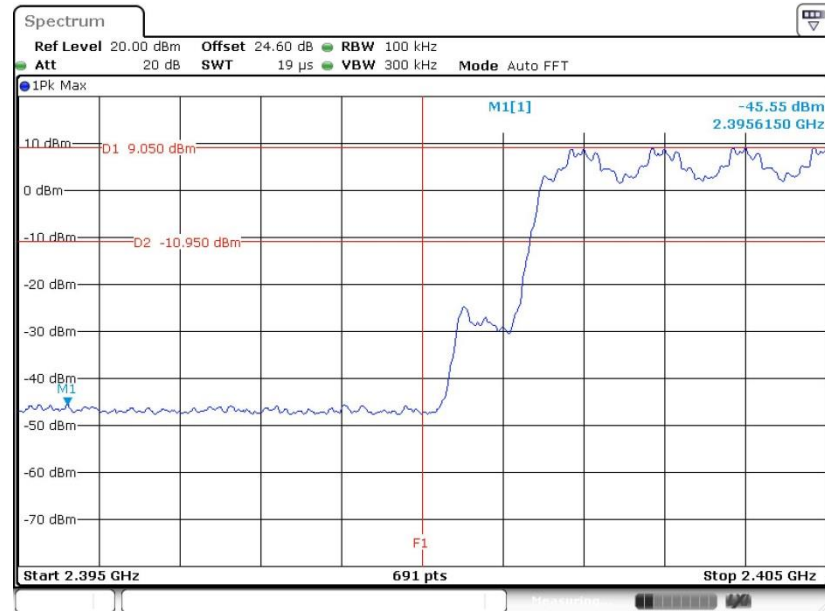


Date: 8 DEC.2018 21:08:23



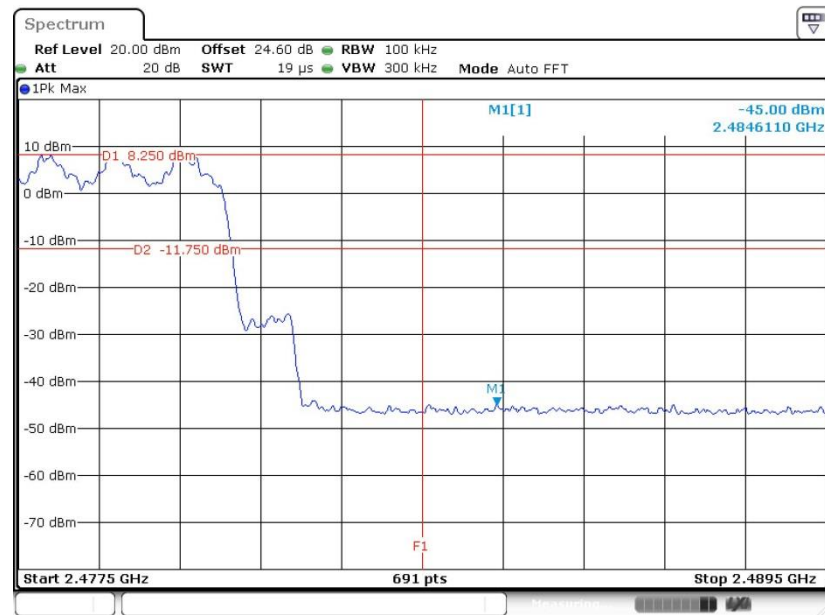
<3Mbps>

Hopping Mode Low Band Edge Plot



Date: 8 DEC.2018 21:26:47

Hopping Mode High Band Edge Plot



Date: 8 DEC.2018 21:27:35

3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

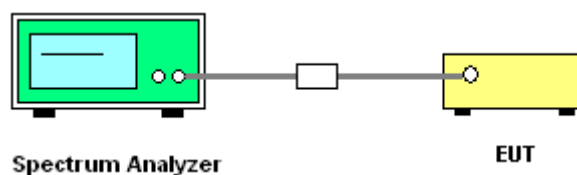
3.7.2 Measuring Instruments

See list of measuring equipment of this test report.

3.7.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.8.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

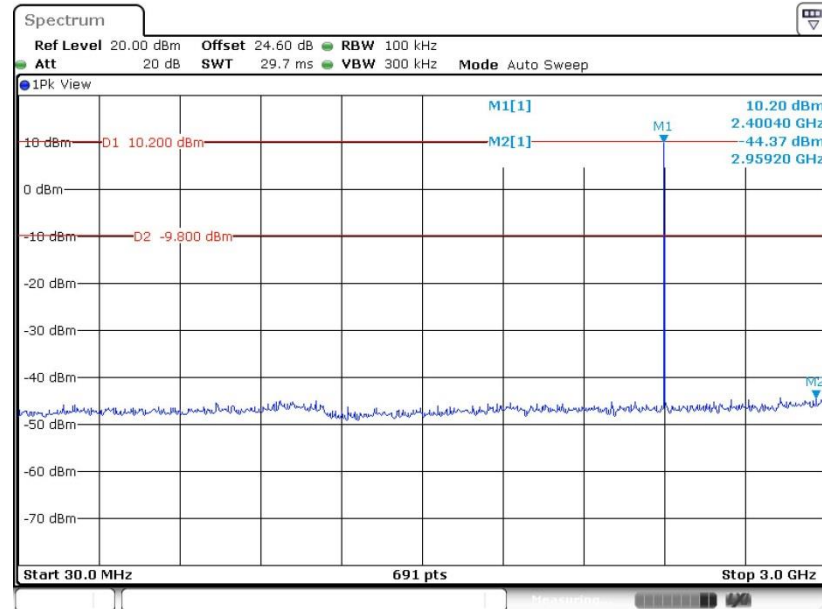
3.7.4 Test Setup



3.7.5 Test Result of Conducted Spurious Emission

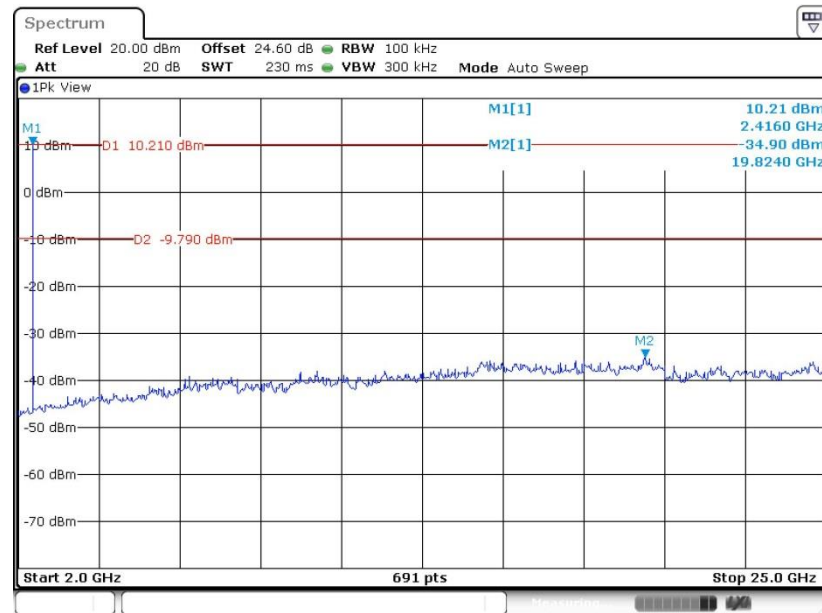
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CSE Plot on Ch 00 between 30MHz ~ 3 GHz

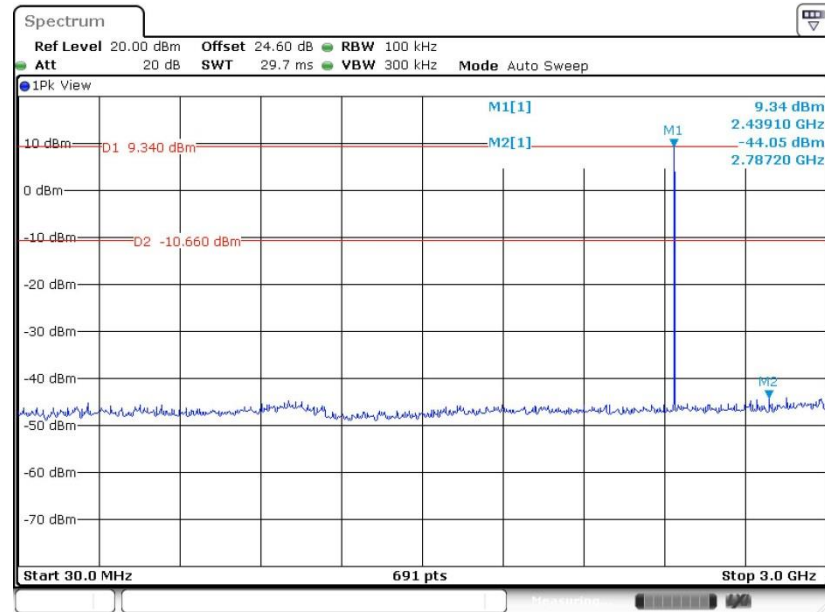


Date: 8.DEC.2018 20:36:31

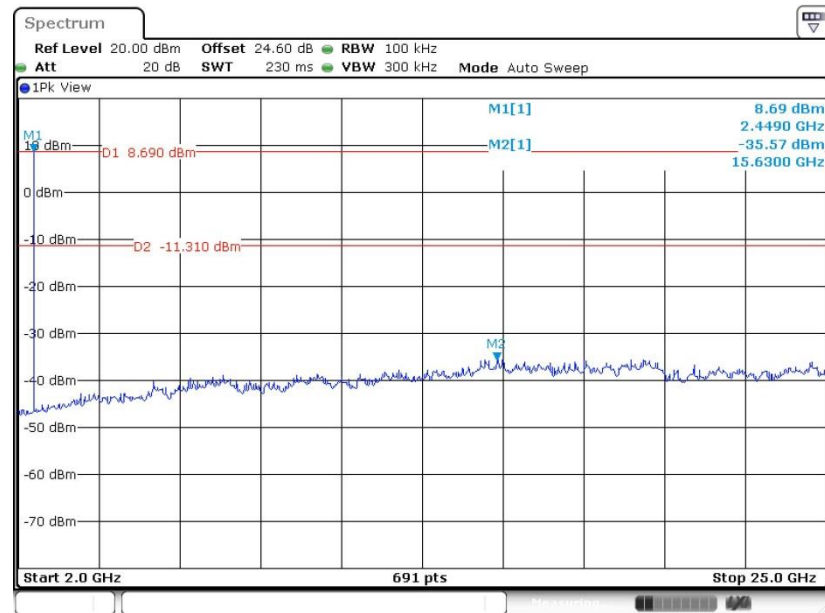
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



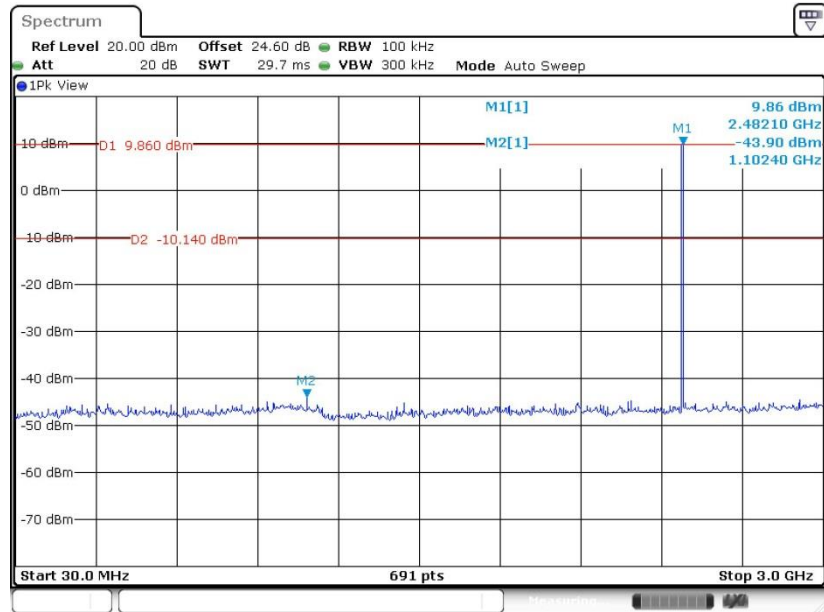
Date: 8.DEC.2018 20:37:07

**CSE Plot on Ch 39 between 30MHz ~ 3 GHz**

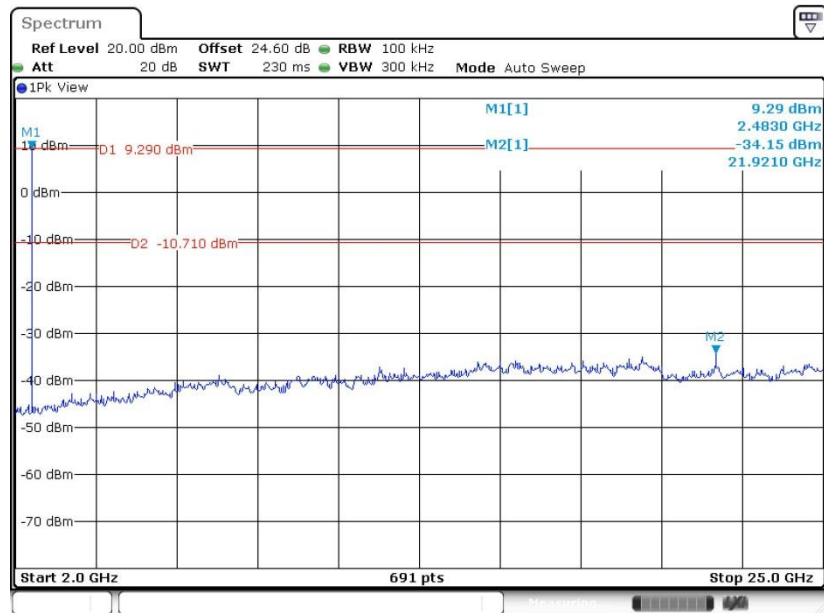
Date: 8.DEC.2018 20:51:20

CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

Date: 8.DEC.2018 20:52:37

**CSE Plot on Ch 78 between 30MHz ~ 3 GHz**

Date: 8.DEC.2018 20:41:35

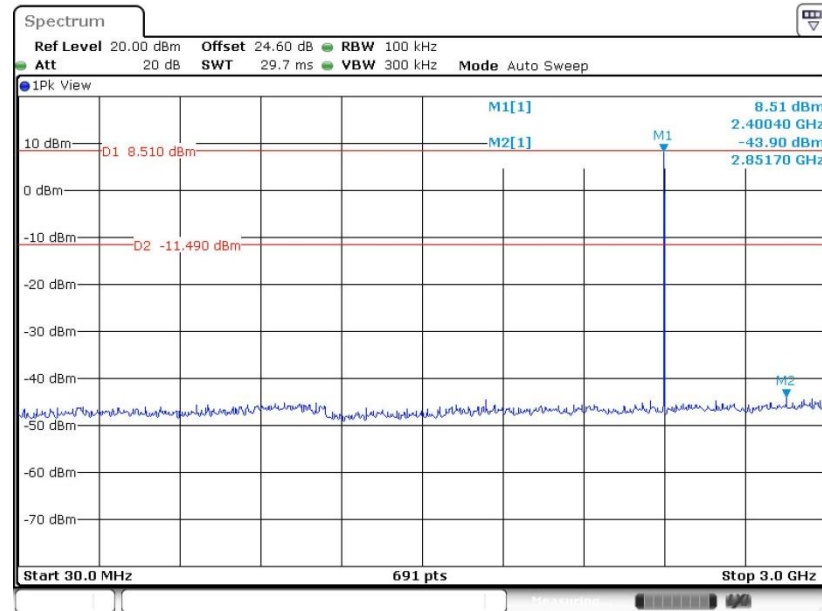
CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

Date: 8.DEC.2018 20:42:09



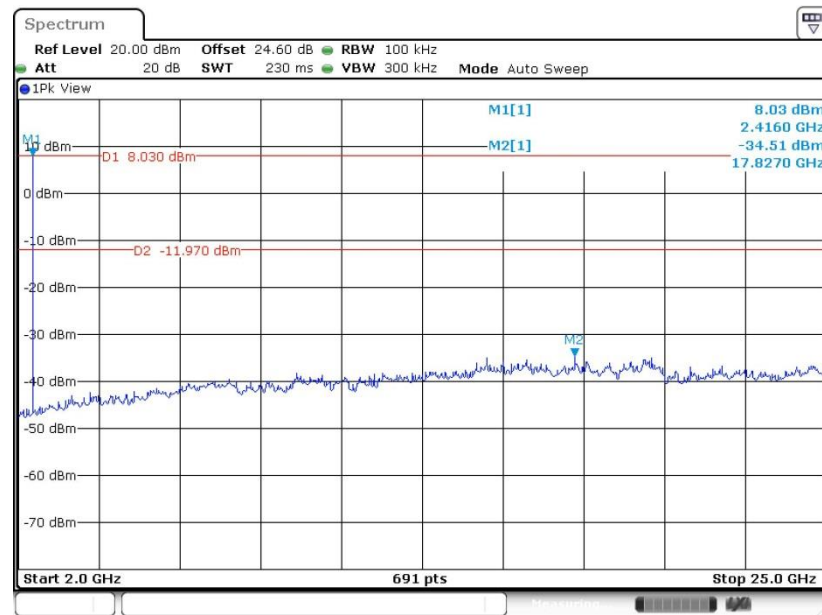
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CSE Plot on Ch 00 between 30MHz ~ 3 GHz

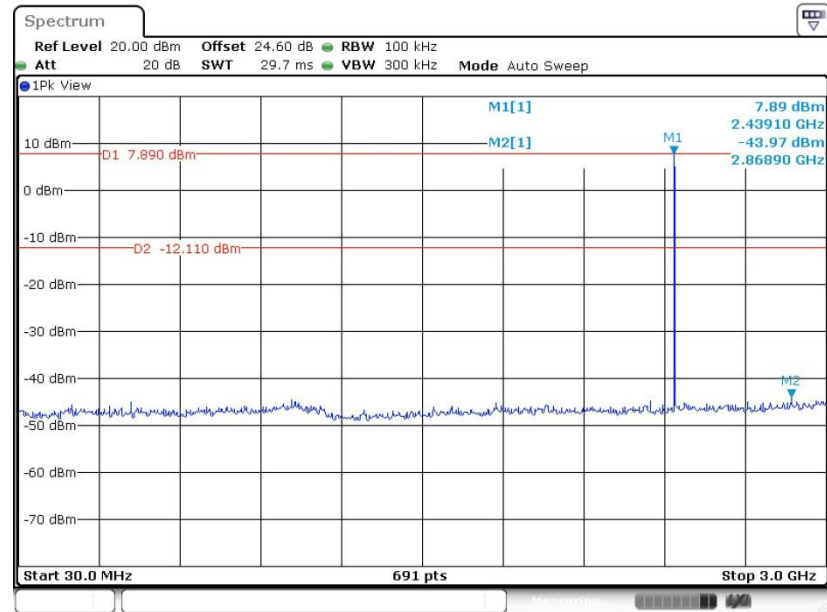


Date: 8.DEC.2018 21:04:28

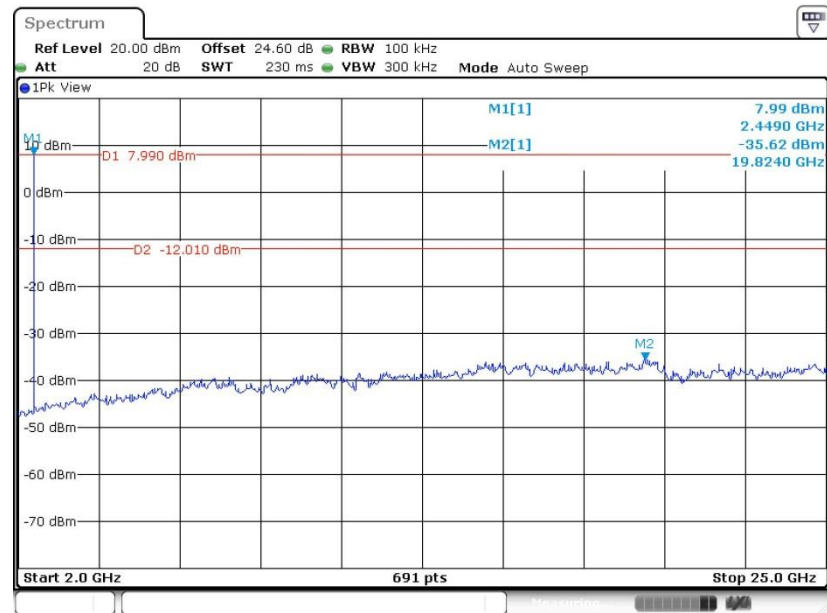
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



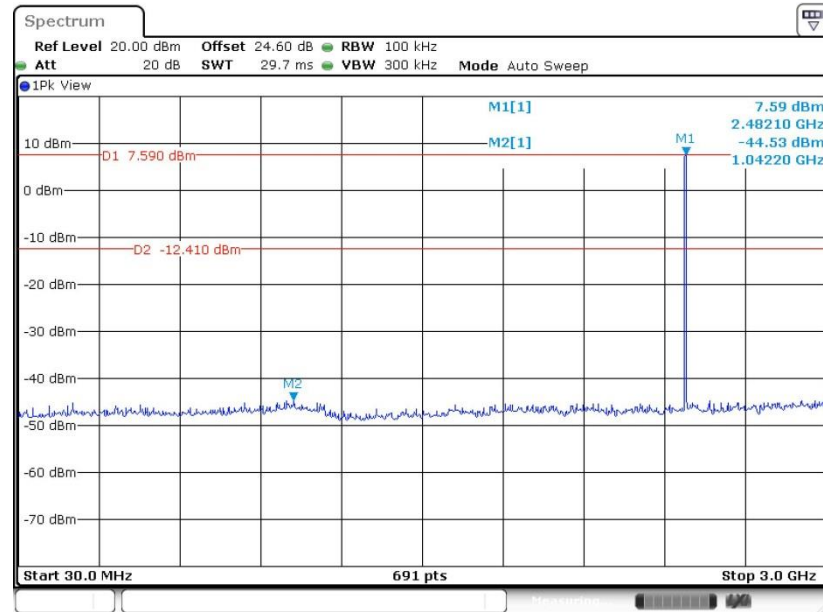
Date: 8.DEC.2018 21:05:21

**CSE Plot on Ch 39 between 30MHz ~ 3 GHz**

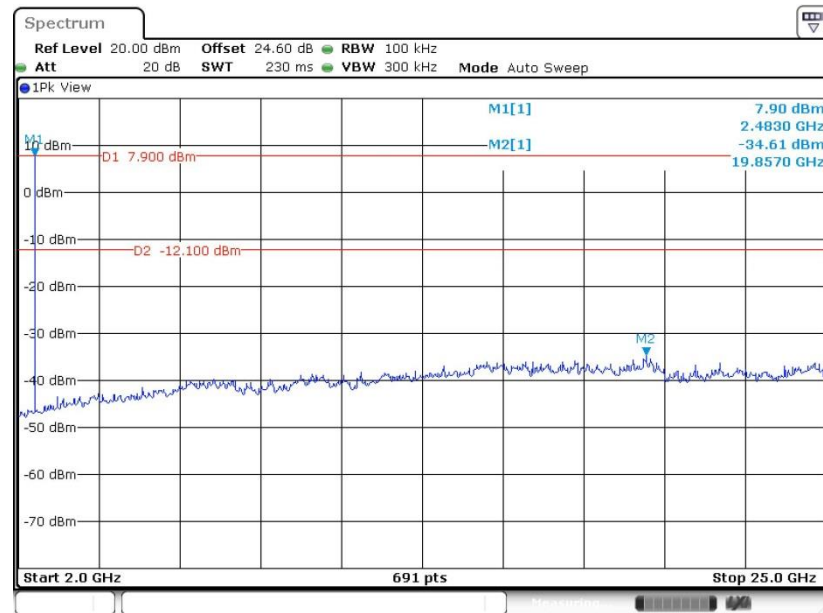
Date: 8.DEC.2018 20:54:51

CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

Date: 8.DEC.2018 20:55:48

**CSE Plot on Ch 78 between 30MHz ~ 3 GHz**

Date: 8.DEC.2018 21:10:21

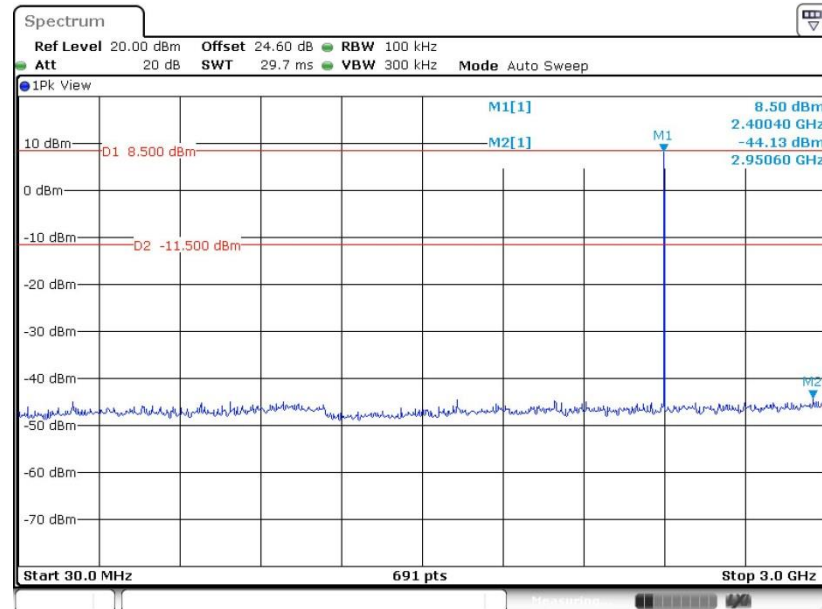
CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

Date: 8.DEC.2018 21:10:59



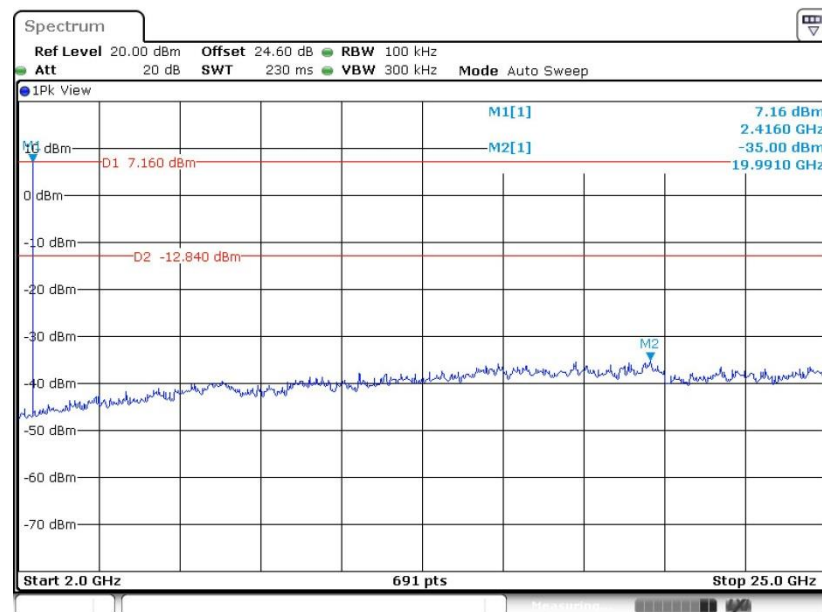
<3Mbps>

CSE Plot on Ch 00 between 30MHz ~ 3 GHz

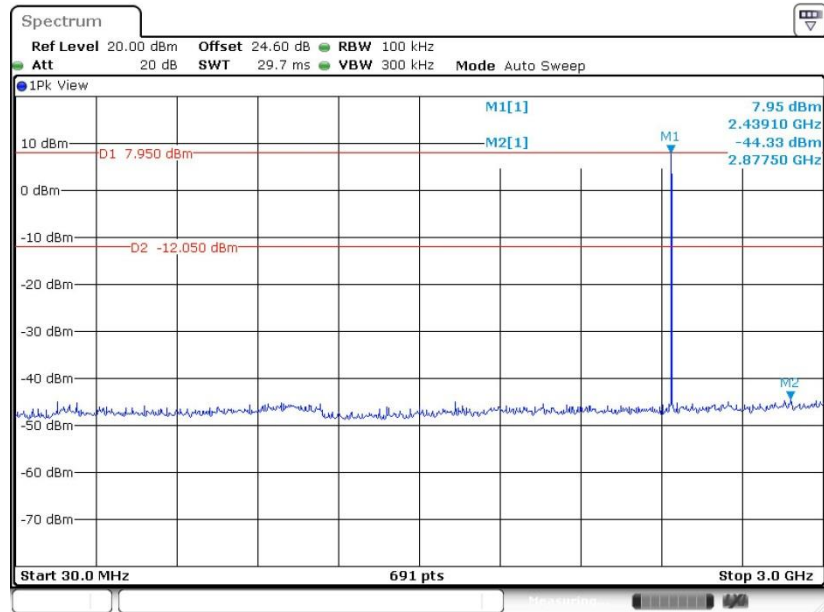


Date: 8.DEC.2018 21:24:45

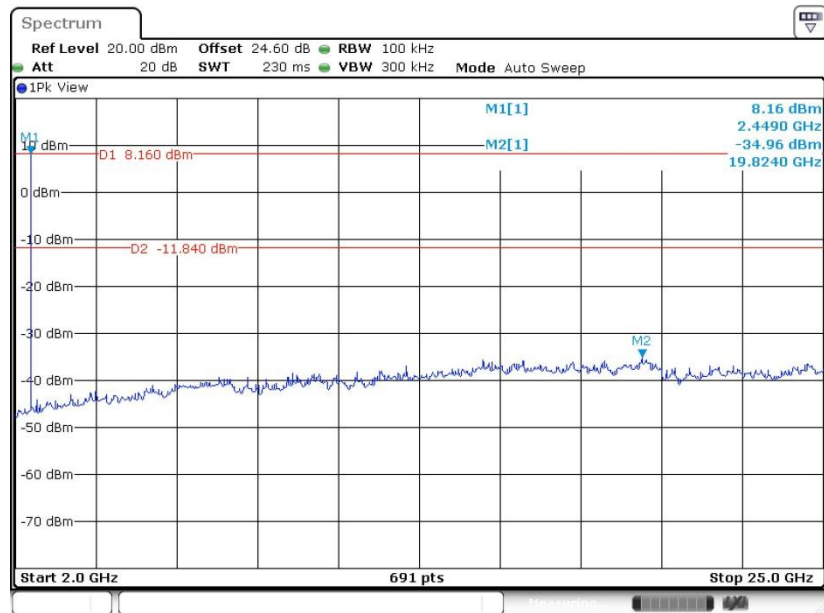
CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



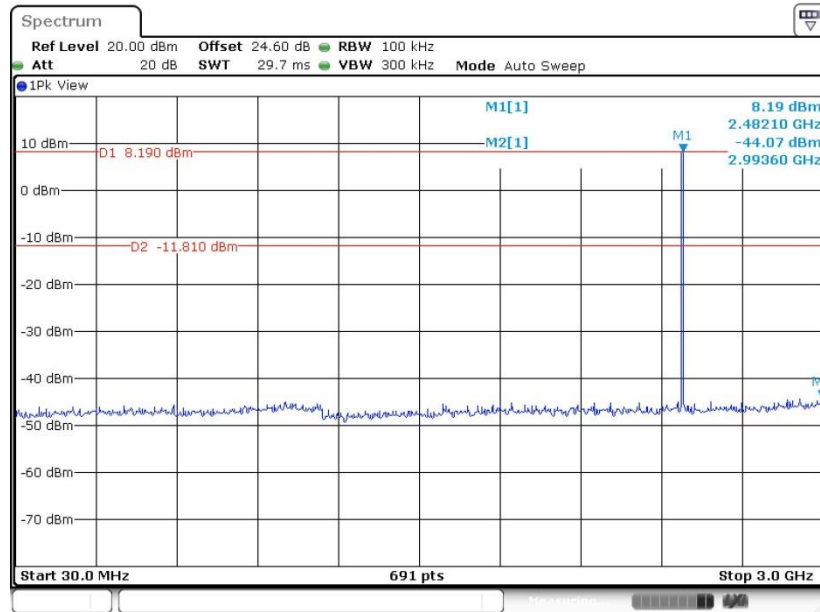
Date: 8.DEC.2018 21:26:12

**CSE Plot on Ch 39 between 30MHz ~ 3 GHz**

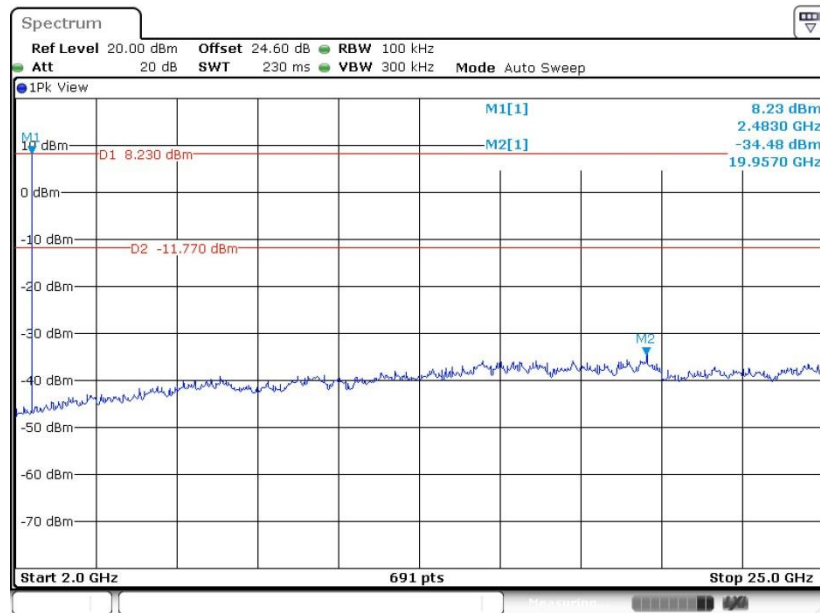
Date: 8.DEC.2018 21:37:57

CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

Date: 8.DEC.2018 21:38:31

**CSE Plot on Ch 78 between 30MHz ~ 3 GHz**

Date: 8.DEC.2018 21:30:28

CSE Plot on Ch 78 between 2 GHz ~ 25 GHz

Date: 8.DEC.2018 21:32:03