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FCC RADIO TEST REPORT

Applicant's company	Cambium Networks Inc.
Applicant Address	3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA
FCC ID	Z8H89FT0017
Manufacturer's company	Cambium Networks Inc.
Manufacturer Address	3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA

Product Name	ePMP Force300-25
Brand Name	Cambium Networks
Model No.	ePMP Force300-25
Test Rule Part(s)	47 CFR FCC Part 15 Subpart E § 15.407
Test Freq. Range	5250 ~ 5350MHz / 5470 ~ 5725MHz
Received Date	Nov. 16, 2017
Final Test Date	Dec. 08, 2017
Submission Type	Class III Change

Statement

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.10-2013, 47 CFR FCC Part 15 Subpart E, KDB789033 D02 v02r01, KDB662911 D01 v02r01, ET Docket No. 13-49; FCC 16-24.**

The test equipment used to perform the test is calibrated and traceable to NML/ROC.



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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR7D0728-01	Rev. 01	Initial issue of report	Jul. 26, 2018
FR7D0728-01	Rev. 02	Removing the band 2 / band 3 80M data for Ant. 3	Jun. 10, 2019
FR7D0728-01	Rev. 03	Revising the antenna type to dish antenna from printed antenna on section 3.3.	Jun. 11, 2019

1. VERIFICATION OF COMPLIANCE

Product Name : ePMP Force300-25
Brand Name : Cambium Networks
Model No. : ePMP Force300-25
Applicant : Cambium Networks Inc.
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart E § 15.407

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Nov. 16, 2017 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.



Sam Chen

SPORTON INTERNATIONAL INC.

2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart E			
Part	Rule Section	Description of Test	Result
4.1	15.407(a)	26dB Spectrum Bandwidth and 99% Occupied Bandwidth	Complies
4.2	15.407(e)	6dB Spectrum Bandwidth	Complies
4.3	15.407(a)	Maximum Conducted Output Power	Complies
4.4	15.407(a)	Power Spectral Density	Complies
4.5	15.407(b)	Radiated Emissions	Complies
4.6	15.407(b)	Band Edge Emissions	Complies
4.7	15.407(g)	Frequency Stability	Complies
4.8	15.203	Antenna Requirements	Complies

3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Product Type	2TX, 2RX
Radio Type	Intentional Transceiver
Power Type	From PoE
Modulation	QPSK
Frequency Range	5250 ~ 5350MHz / 5470 ~ 5725MHz
Channel Number	Band 2: 14 for 20MHz bandwidth ; Band 3: 32 for 20MHz bandwidth Band 2: 3 for 80MHz bandwidth ; Band 3: 28 for 80MHz bandwidth
Channel Bandwidth (99%)	For Antenna 2 Band 2: QPSK, 20M: 17.63 MHz QPSK, 80M: 75.83 MHz Band 3: QPSK, 20M: 17.63 MHz QPSK, 80M: 76.12MHz
	For Antenna 3 Band 2: QPSK, 20M: 17.63 MHz Band 3: QPSK, 20M: 17.63 MHz

Maximum Conducted Output Power	For Antenna 2 Band 2: QPSK, 20M: 4.79 dBm QPSK, 80M: -1.34 dBm Band 3: QPSK, 20M: -1.25 dBm QPSK, 80M: -0.35 dBm
	For Antenna 3 Band 2: QPSK, 20M: 23.88 dBm Band 3: QPSK, 20M: 23.64 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

Items	Description	
Communication Mode	☐ IP Based (Load Based)	☒ Frame Based
TPC Function	☒ With TPC	☐ Without TPC
Weather Band (5600~5650MHz)	☒ With 5600~5650MHz	☐ Without 5600~5650MHz
Beamforming Function	☐ With beamforming	☒ Without beamforming
Operate Condition	☐ Indoor	☒ Outdoor

Antenna and Bandwidth

Antenna	Two (TX)	
Bandwidth Mode	20 MHz	80 MHz
QPSK	V	V

3.2. Accessories

N/A

3.3. Table for Filed Antenna

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1	-	-	Dish Antenna	N/A	25	-
2	1, 2	-	-	Dish Antenna	N/A	-	25
3	1, 2	-	-	Printed Antenna	N/A	-	2

Note: The EUT has three antennas.

For 2.4GHz function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

For 5GHz function (2TX/2RX):

Ant.2 and Ant.3 has been tested and recorded in the test report.

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

Ant. 3 supports 20MHz only for DFS Band.

3.4. Table for Carrier Frequencies

There are two bandwidth systems.

For 20MHz bandwidth systems:

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5250~5350 MHz Band 2	1	5250 MHz	8	5290 MHz
	2	5260 MHz	9	5295 MHz
	3	5265 MHz	10	5300 MHz
	4	5270 MHz	11	5305 MHz
	5	5275 MHz	12	5310 MHz
	6	5280 MHz	13	5315 MHz
	7	5285 MHz	14	5320 MHz
5470~5725 MHz Band 3	1	5500 MHz	17	5580 MHz
	2	5505 MHz	18	5585 MHz
	3	5510 MHz	19	5590 MHz
	4	5515 MHz	20	5595 MHz
	5	5520 MHz	21	5600 MHz
	6	5525 MHz	22	5605 MHz
	7	5530 MHz	23	5610 MHz
	8	5535 MHz	24	5615 MHz
	9	5540 MHz	25	5620 MHz
	10	5545 MHz	26	5625 MHz
	11	5550 MHz	27	5630 MHz
	12	5555 MHz	28	5635 MHz
	13	5560 MHz	29	5640 MHz
	14	5565 MHz	30	5645 MHz
	15	5570 MHz	31	5650 MHz
	16	5575 MHz	32	5720 MHz

For 80MHz bandwidth systems:

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5250~5350 MHz Band 2	1	5250 MHz	2	5290 MHz
	3	5300 MHz	-	-
5470~5725 MHz Band 3	1	5520 MHz	16	5595 MHz
	2	5525 MHz	17	5600 MHz
	3	5530 MHz	18	5605 MHz
	4	5535 MHz	19	5610 MHz
	5	5540 MHz	20	5615 MHz
	6	5545 MHz	21	5620 MHz
	7	5550 MHz	22	5625 MHz
	8	5555 MHz	23	5630 MHz
	9	5560 MHz	24	5635 MHz
	10	5565 MHz	25	5640 MHz
	11	5570 MHz	26	5645 MHz
	12	5575 MHz	27	5650 MHz
	15	5580 MHz	28	5720 MHz

3.5. Table for Class III Change

This product is an extension of original one reported under Sporton project number: FR7D0728

Below is the table for the change of the product with respect to the original one.

Description	Performance Checking
1. Adding U-NII-2A and U-NII-2C bands (5250~5350 MHz, 5470~5725 MHz) for 20MHz / 80MHz for Ant. 2. 2. Adding U-NII-2A and U-NII-2C bands (5250~5350 MHz, 5470~5725 MHz) for 20MHz for Ant. 3. Please refer to section 3.4 for detail frequency.	1. 26dB Spectrum Bandwidth and 99% Occupied Bandwidth 2. 6dB Spectrum Bandwidth 3. Maximum Conducted Output Power 4. Power Spectral Density 5. Radiated Emissions (Above 1GHz) 6. Band Edge Emissions 7. Frequency Stability

3.6. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. The following table is a list of the test modes shown in this test report.

<For Antenna 2>

Test Items	Mode		Frequency	Port
Max. Conducted Output Power	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
	QPSK, 80M	Band 2	5250/5290/5300	1+2
		Band 3	5520/5610/5650/5720	1+2
Power Spectral Density	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
	QPSK, 80M	Band 2	5250/5290/5300	1+2
		Band 3	5520/5610/5650/5720	1+2
26dB Spectrum Bandwidth & 99% Occupied Bandwidth Measurement	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
	QPSK, 80M	Band 2	5250/5290/5300	1+2
		Band 3	5520/5610/5650/5720	1+2
6dB Spectrum Bandwidth Measurement	QPSK, 20M	Band 4	5720	1+2
	QPSK, 80M	Band 4	5720	1+2
Radiated Emission Above 1GHz	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
	QPSK, 80M	Band 2	5250/5290/5300	1+2
		Band 3	5520/5610/5650/5720	1+2
Band Edge Emission	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
	QPSK, 80M	Band 2	5250/5290/5300	1+2
		Band 3	5520/5610/5650/5720	1+2
Frequency Stability	20 MHz	Band 2	5300	2
		Band 3	5580	2
	80 MHz	Band 2	5290	2
		Band 3	5520	2

<For Antenna 3>

Test Items	Mode		Frequency	Port
Max. Conducted Output Power	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
Power Spectral Density	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
26dB Spectrum Bandwidth & 99% Occupied Bandwidth Measurement	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
6dB Spectrum Bandwidth Measurement	QPSK, 20M	Band 4	5720	1+2
Radiated Emission Above 1GHz	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
Band Edge Emission	QPSK, 20M	Band 2	5250/5260/5300/5320	1+2
		Band 3	5500/5580/5650/5720	1+2
Frequency Stability	20 MHz	Band 2	5300	2
		Band 3	5580	2

Note 1: The EUT can only be used at Z axis position.

Note 2: The EUT was powered by PoE, and the PoE was for measurement only, would not be marketed.

PoE information as below:

Support Unit	Brand	Model
PoE	Cambium Networks	NET-P15-30IN

3.7. Table for Testing Locations

Test Site Location					
Address:	No.8, Lane 724, Bo-ai St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.				
TEL:	886-3-656-9065				
FAX:	886-3-656-9085				
Test Site No.	Site Category	Location	FCC Designation No.	IC File No.	VCCI Reg. No
03CH01-CB	SAC	Hsin Chu	TW0006	IC 4086B	-
TH01-CB	OVEN Room	Hsin Chu	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC).

3.8. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
NB	DELL	E4300	DoC
PoE	Cambium Networks	NET-P15-30IN	DoC

3.9. Table for Parameters of Test Software Setting

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Antenna 2:

Test Software Version	QRCT Version3.0.250.0							
Mode	Test Frequency (MHz)							
	5250MHz	5260 MHz	5300 MHz	5320 MHz	5500 MHz	5610 MHz	5650 MHz	5720MHz
20M	14	13	7	7	4.5	6	6	10
Mode	5250MHz	5290MHz	5300 MHz	5520 MHz	5610 MHz	5650 MHz	5720MHz	-
80M	7	7	7	5	8	8	10	-

For Antenna 3:

Test Software Version	QRCT Version3.0.250.0							
Mode	Test Frequency (MHz)							
	5250MHz	5260 MHz	5300 MHz	5320 MHz	5500 MHz	5610 MHz	5650 MHz	5720MHz
20M	20	19.5	21	21	19.5	19.5	19.5	20.5

3.10. EUT Operation during Test

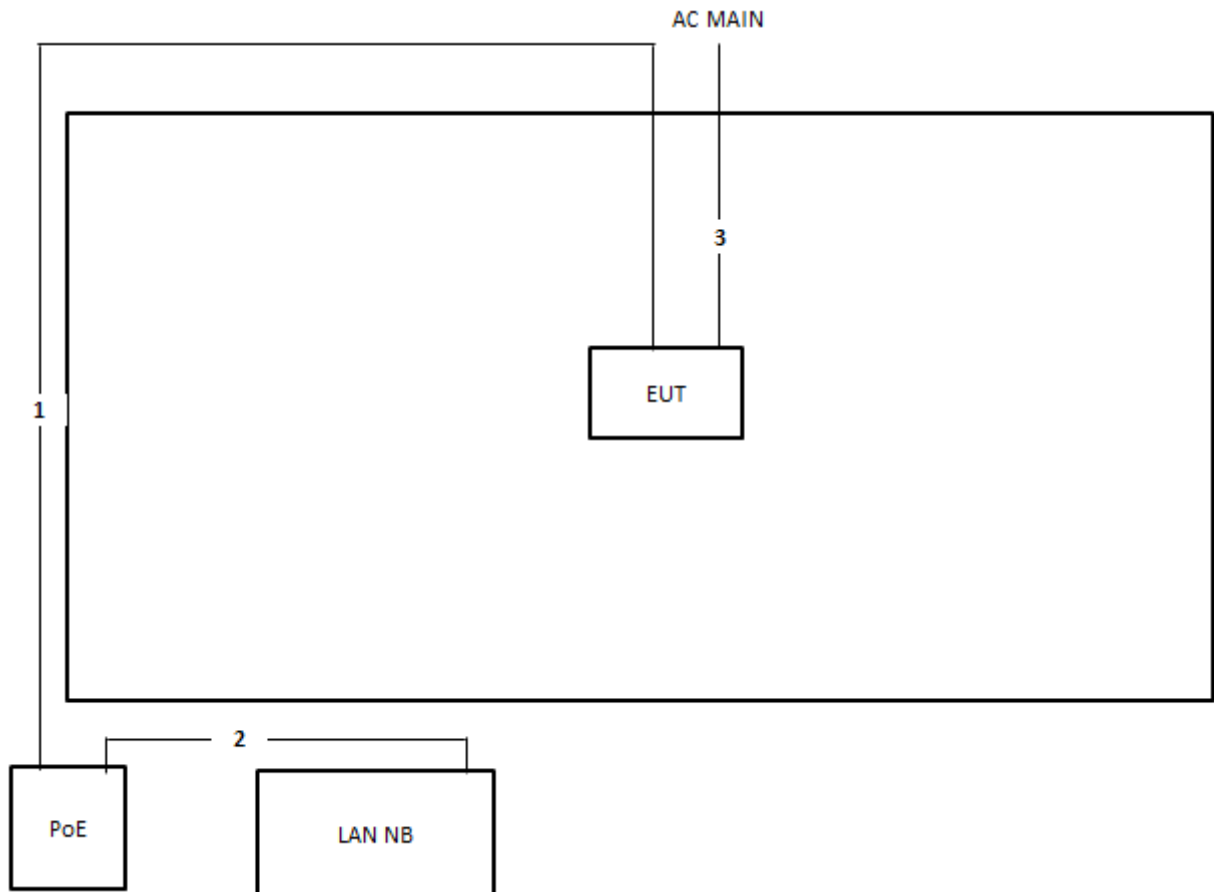
The EUT was programmed to be in continuously transmitting mode.

3.11. Duty Cycle

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
20M	4.983	5.070	98.28%	0.08	0.01
80M	1.123	1.217	92.28%	0.35	0.89

3.12. Test Configurations

3.12.1. Radiation Emissions Test Configuration



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	1.5m

4. TEST RESULT

4.1. 26dB Bandwidth and 99% Occupied Bandwidth Measurement

4.1.1. Limit

No restriction limits.

4.1.2. Measuring Instruments and Setting

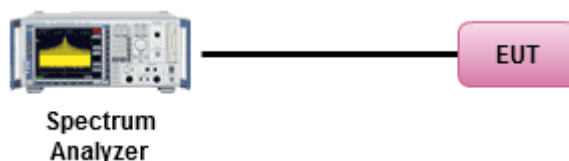
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

26dB Bandwidth	
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW > RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth	
Spectrum Parameters	Setting
Span	1.5 times to 5.0 times the OBW
RBW	1 % to 5 % of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold

4.1.3. Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☒	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

4.1.4. Test Setup Layout



4.1.5. Test Deviation

There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.1.7. Test Result of 26dB Bandwidth and 99% Occupied Bandwidth

Temperature	22°C	Humidity	54%
Test Engineer	Ron Huang / Lucke Hsieh / Brian Sun / Serway Li		

For Antenna 2:

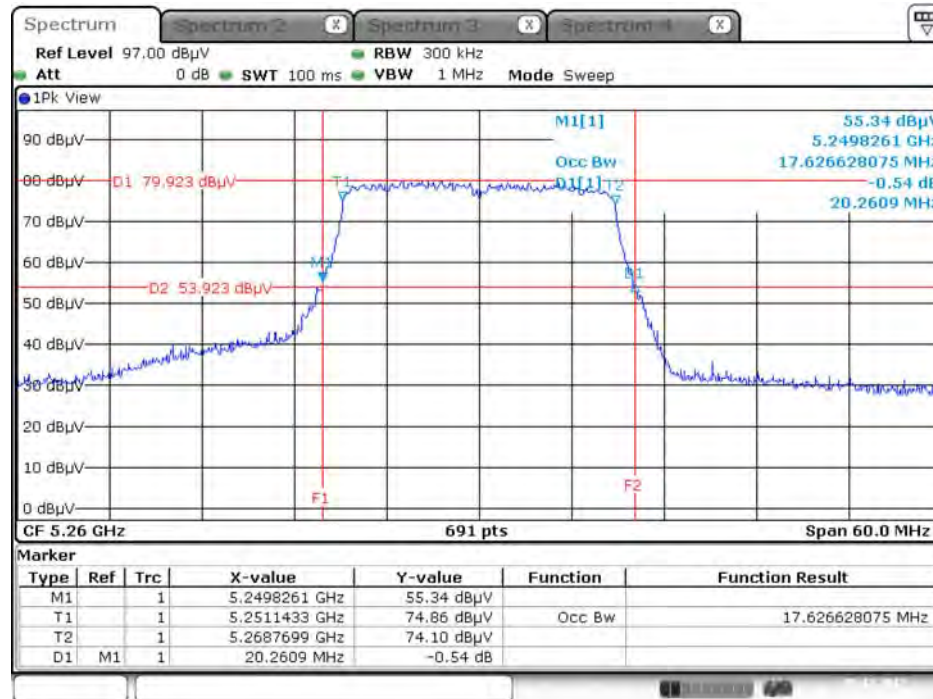
Mode	Frequency	26dB/99% Bandwidth (MHz)		26dB/99% Occupied Bandwidth (MHz)	
		Port 1		Port 2	
20M	5260 MHz	20.26	17.63	20.26	17.63
	5300 MHz	20.17	17.54	20.17	17.63
	5320 MHz	20.09	17.63	20.17	17.63
	5500 MHz	20.35	17.63	20.35	17.63
	5610 MHz	20.26	17.63	20.26	17.63
	5650 MHz	20.35	17.63	20.44	17.63
80M	5290 MHz	81.74	75.83	81.16	74.38
	5300 MHz	82.32	75.83	82.03	75.54
	5520 MHz	83.19	75.83	83.19	75.83
	5610 MHz	83.48	75.83	83.48	76.12
	5650 MHz	83.48	75.83	84.06	75.83

For Antenna 3:

Mode	Frequency	26dB/99% Bandwidth (MHz)		26dB/99% Occupied Bandwidth (MHz)	
		Port 1		Port 2	
20M	5260 MHz	20.52	17.63	20.35	17.63
	5300 MHz	20.09	17.54	20.17	17.63
	5320 MHz	20.35	17.63	20.70	17.63
	5500 MHz	20.44	17.63	20.44	17.63
	5610 MHz	20.35	17.63	20.44	17.63
	5650 MHz	20.26	17.63	20.52	17.63

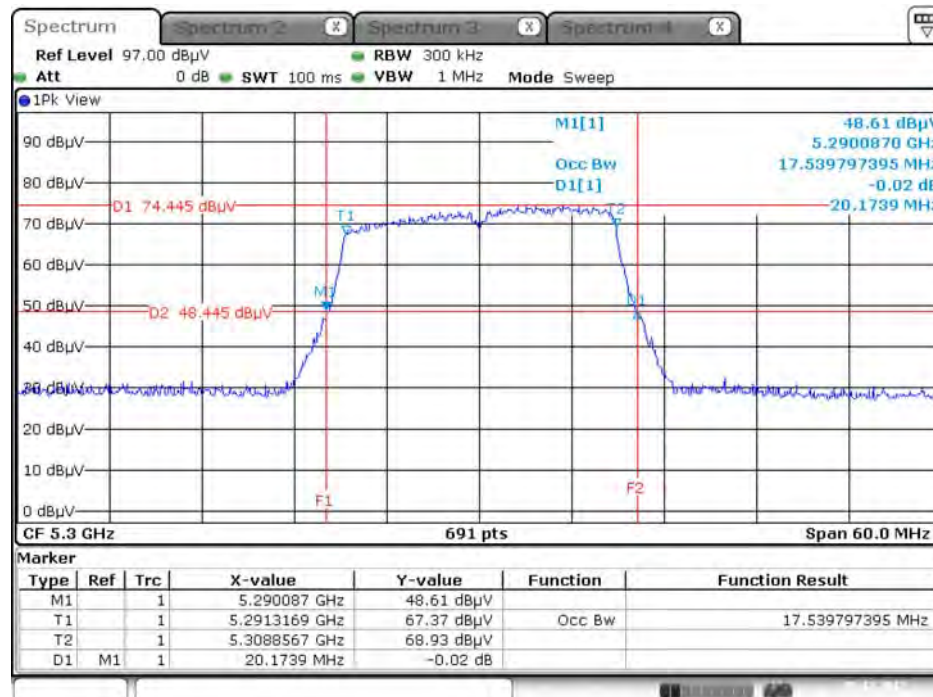
For Antenna 2:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5260 MHz



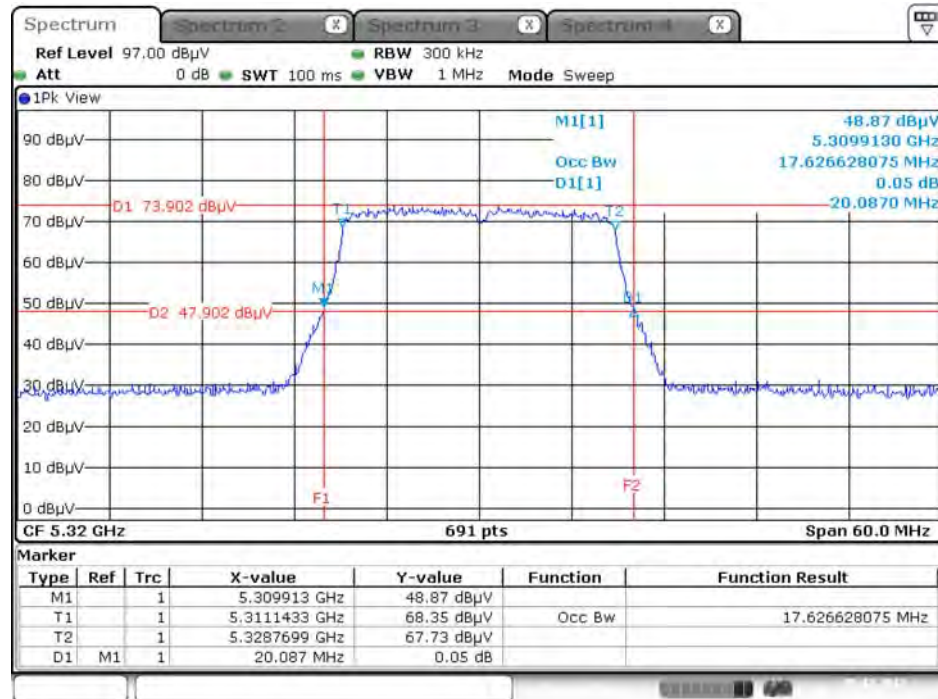
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5300 MHz



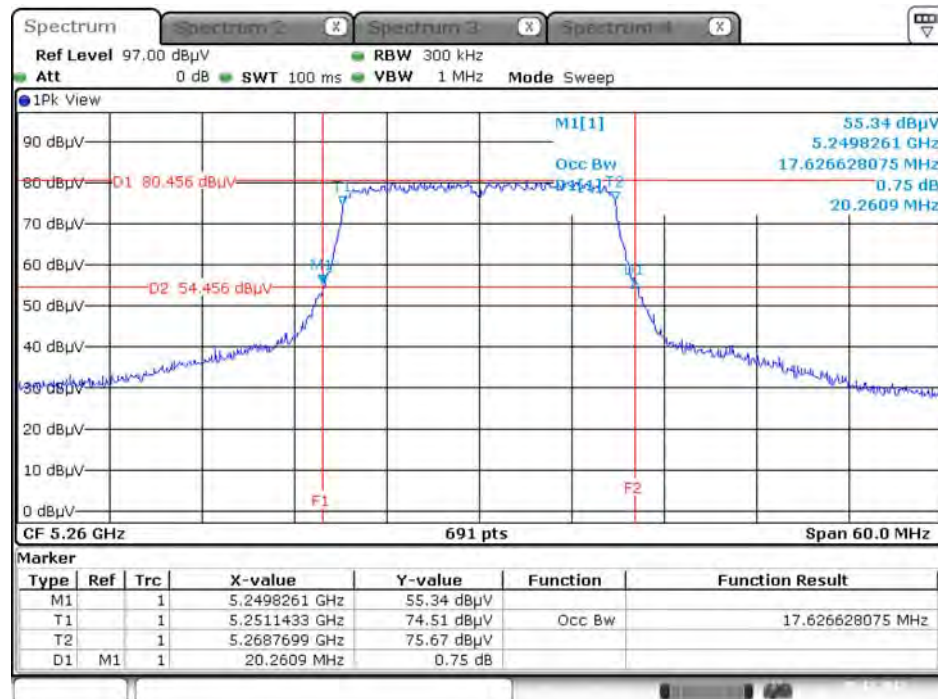
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5320 MHz



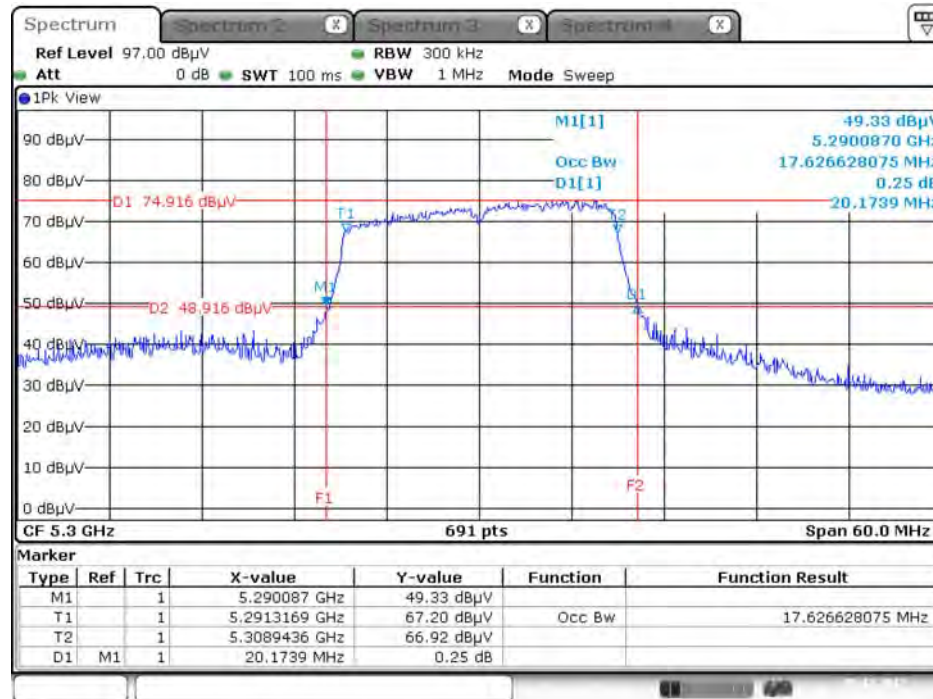
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5260 MHz



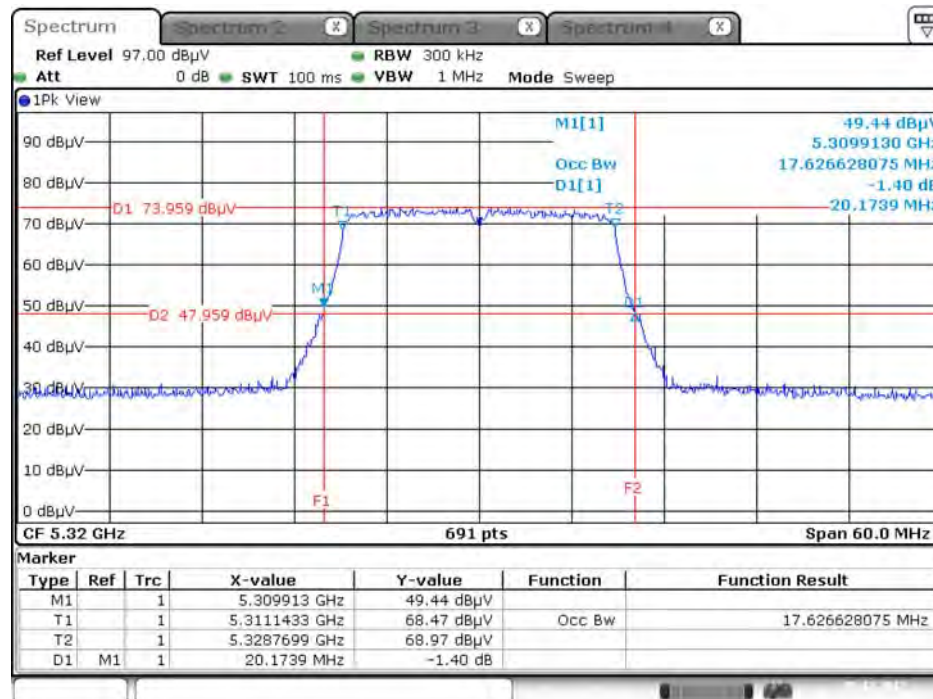
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5300 MHz



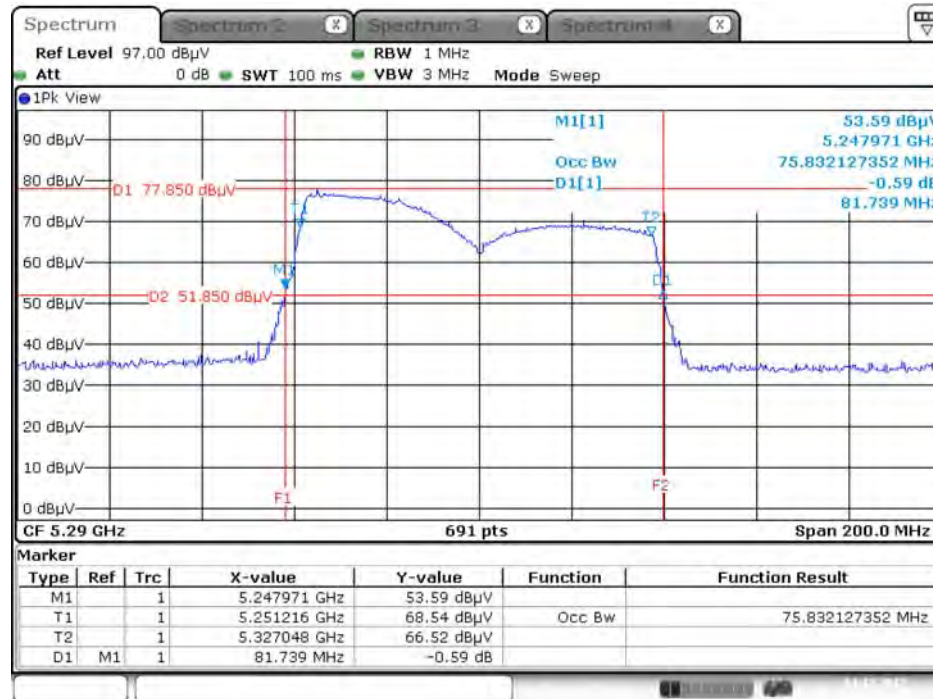
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5320 MHz



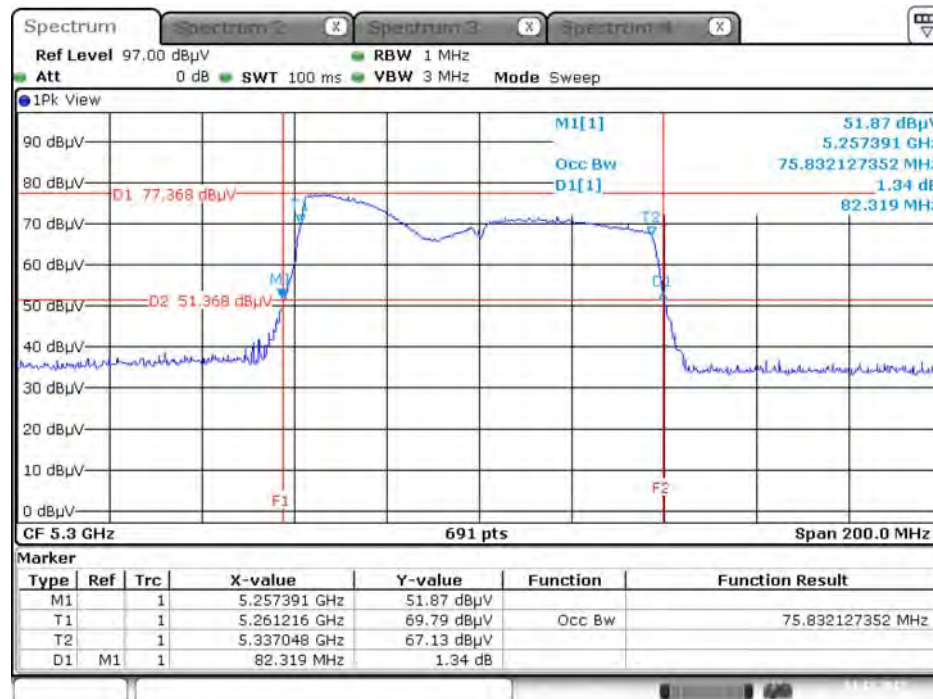
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5290 MHz



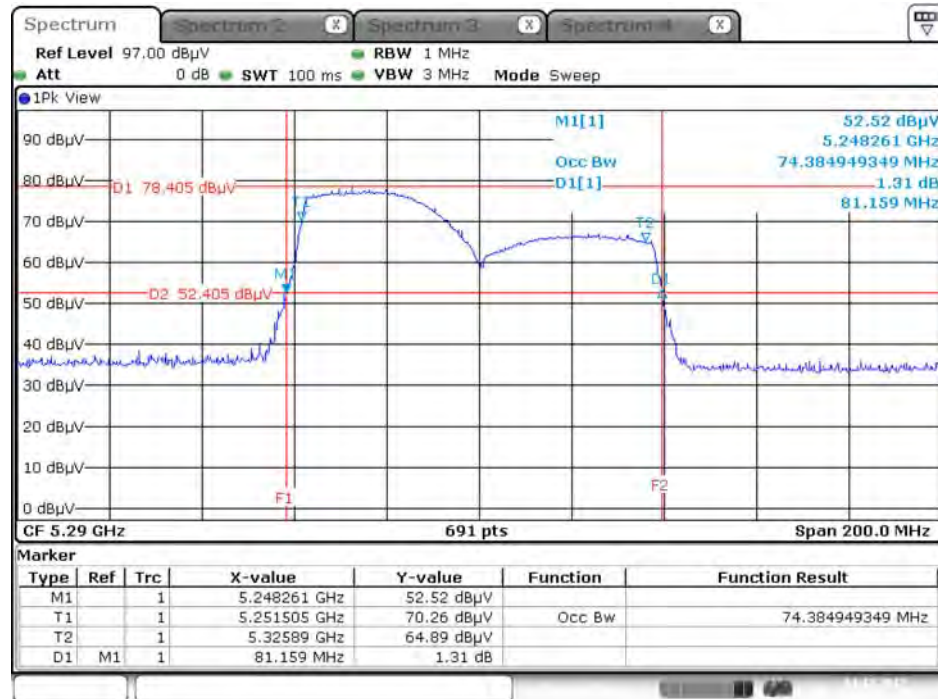
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5300 MHz



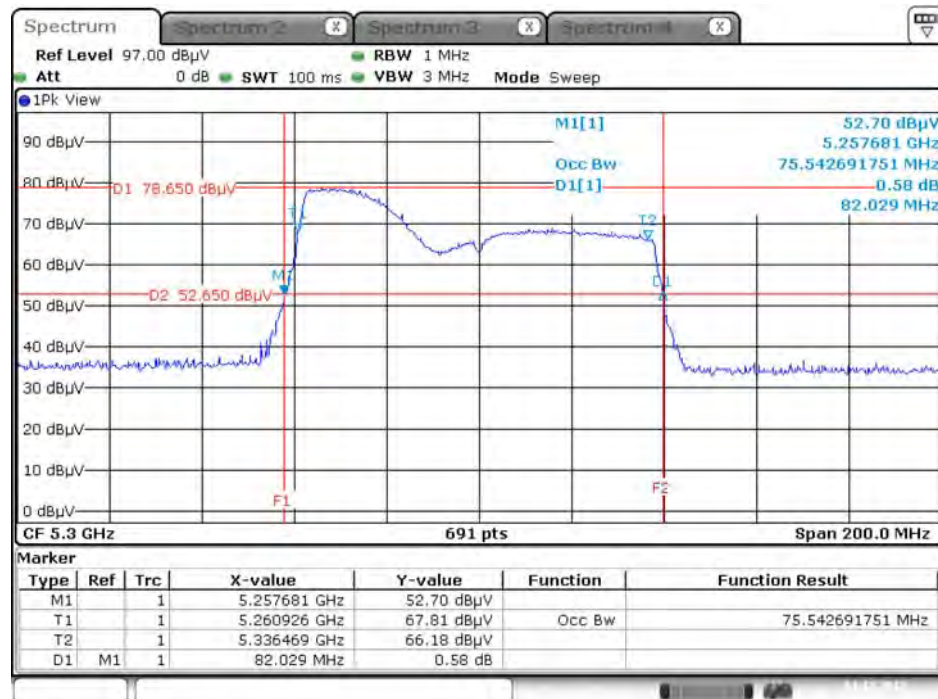
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5290MHz



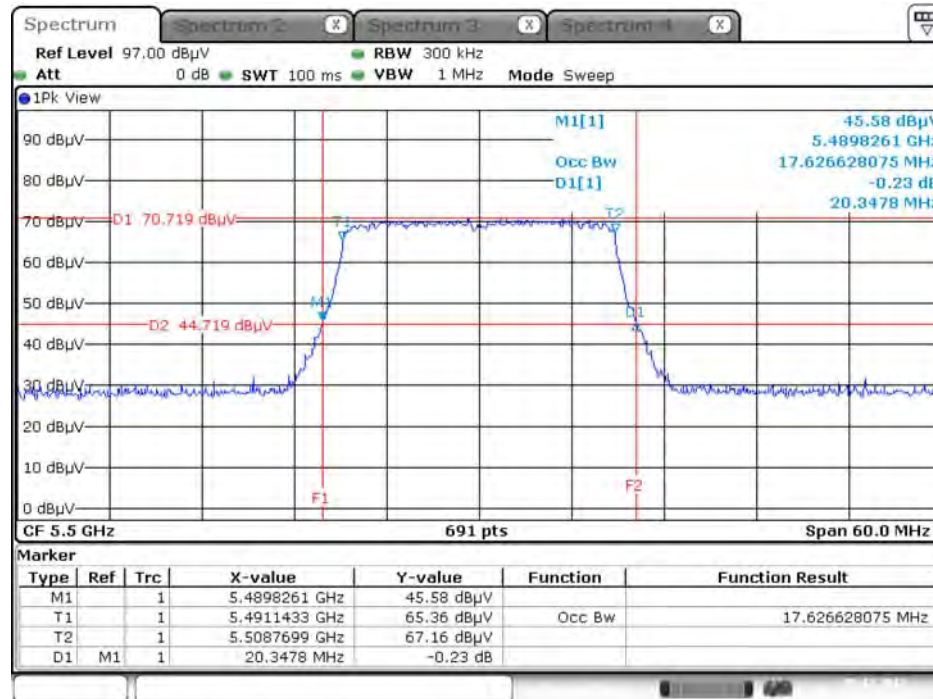
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5300 MHz



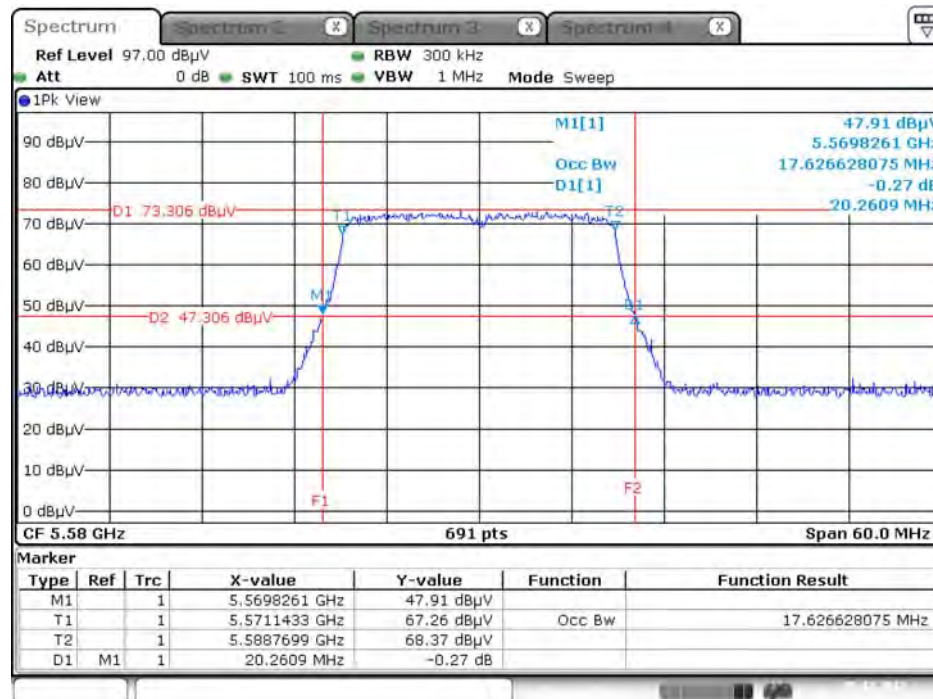
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5500 MHz



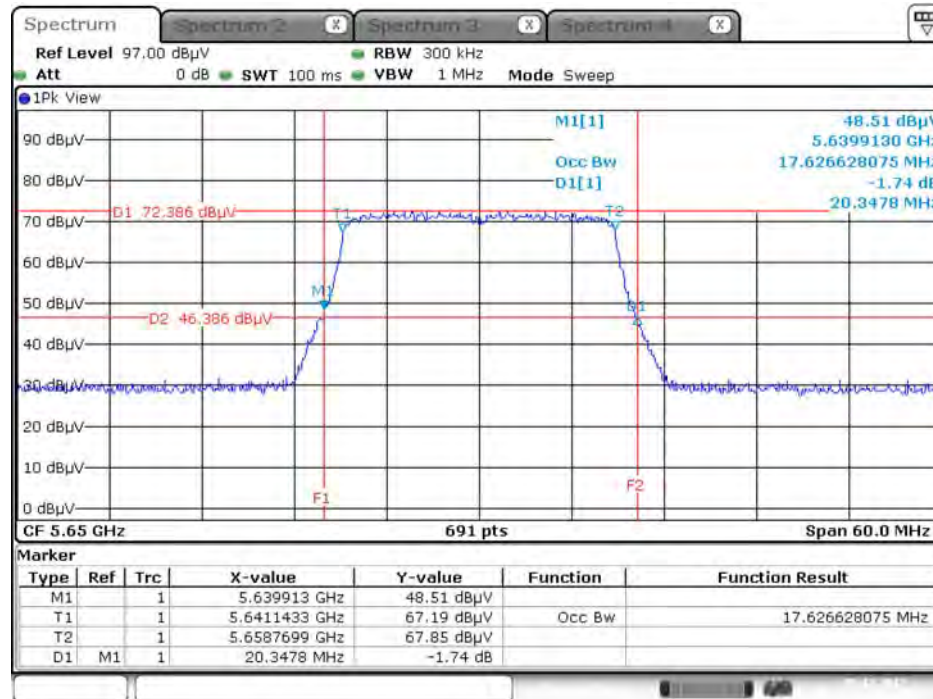
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5580 MHz



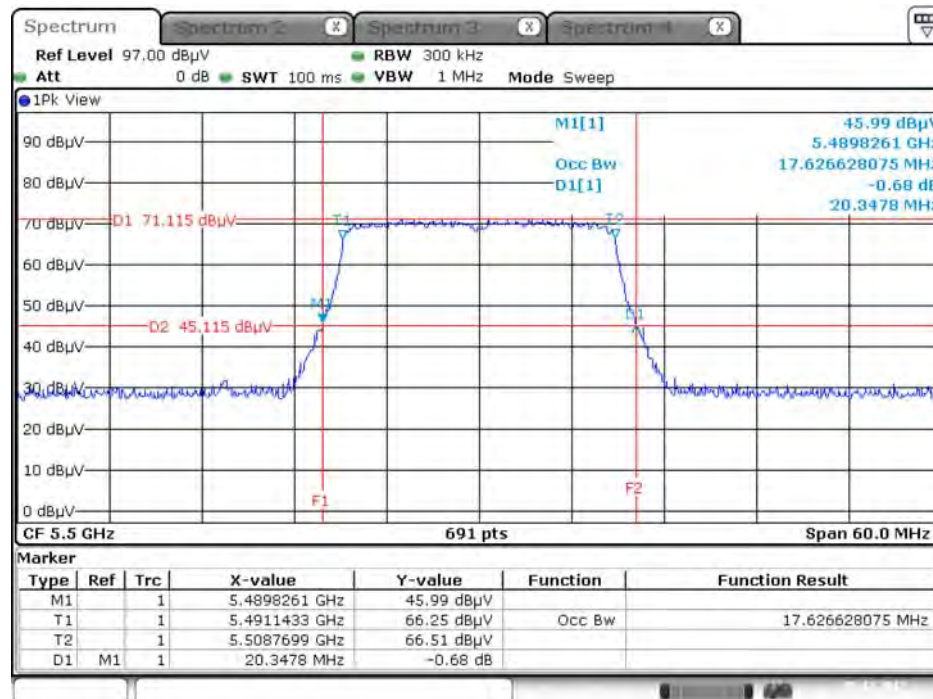
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5650 MHz



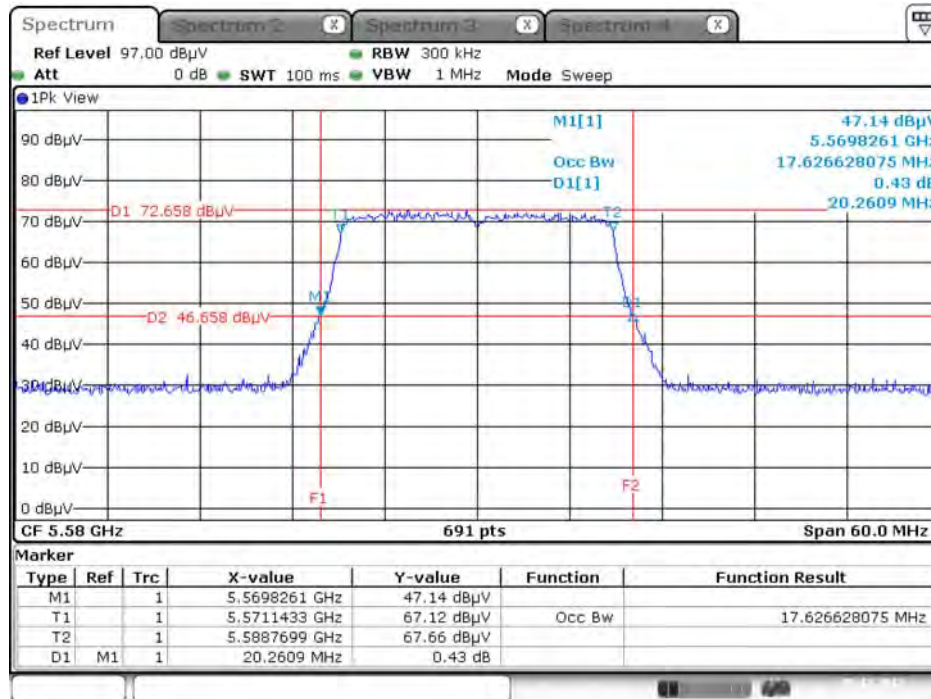
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5500 MHz



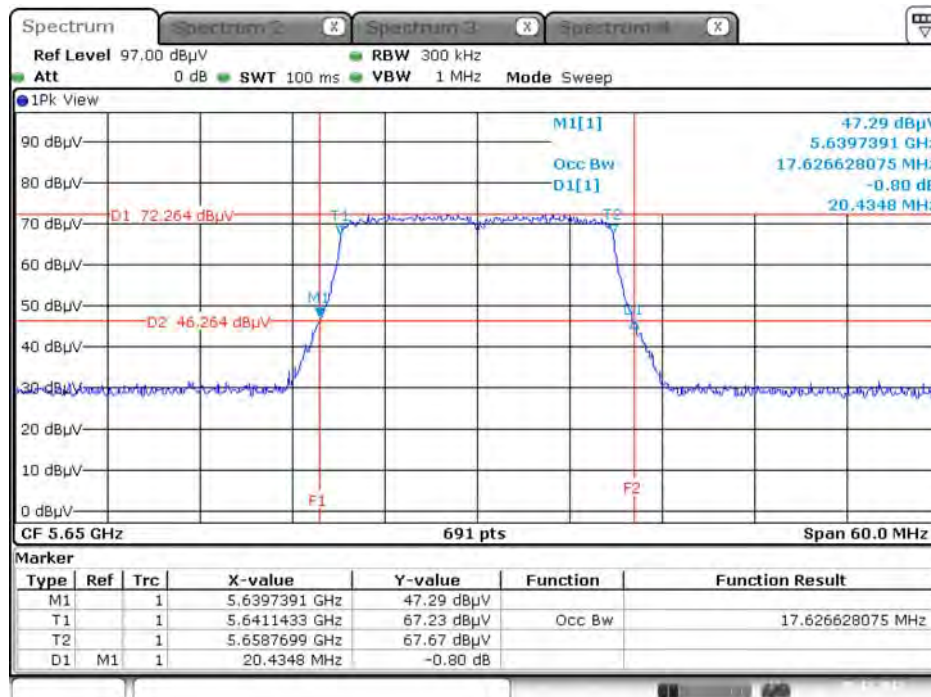
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5580 MHz



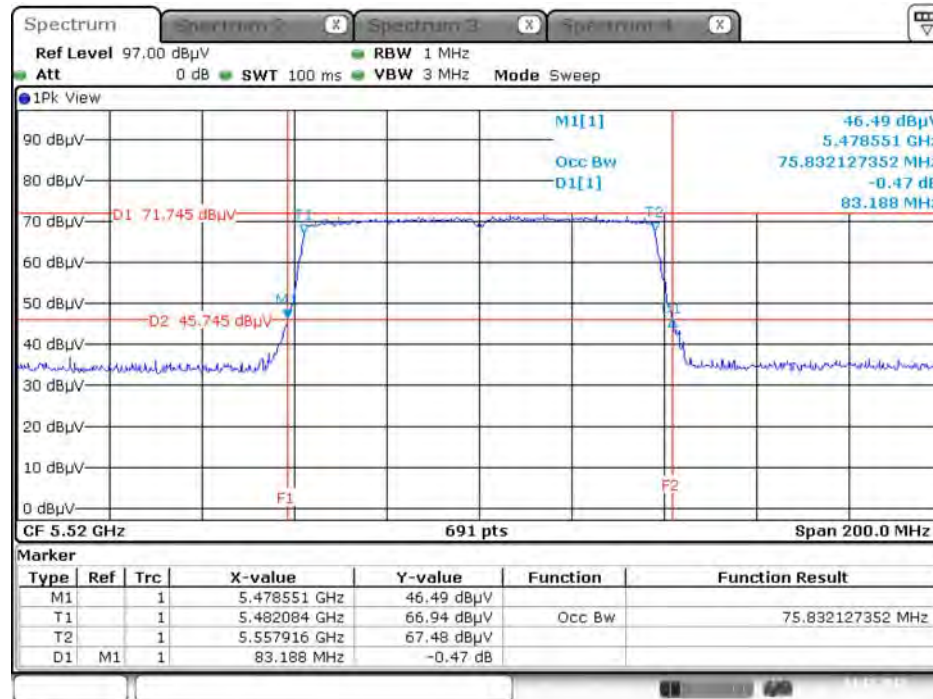
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26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5650 MHz



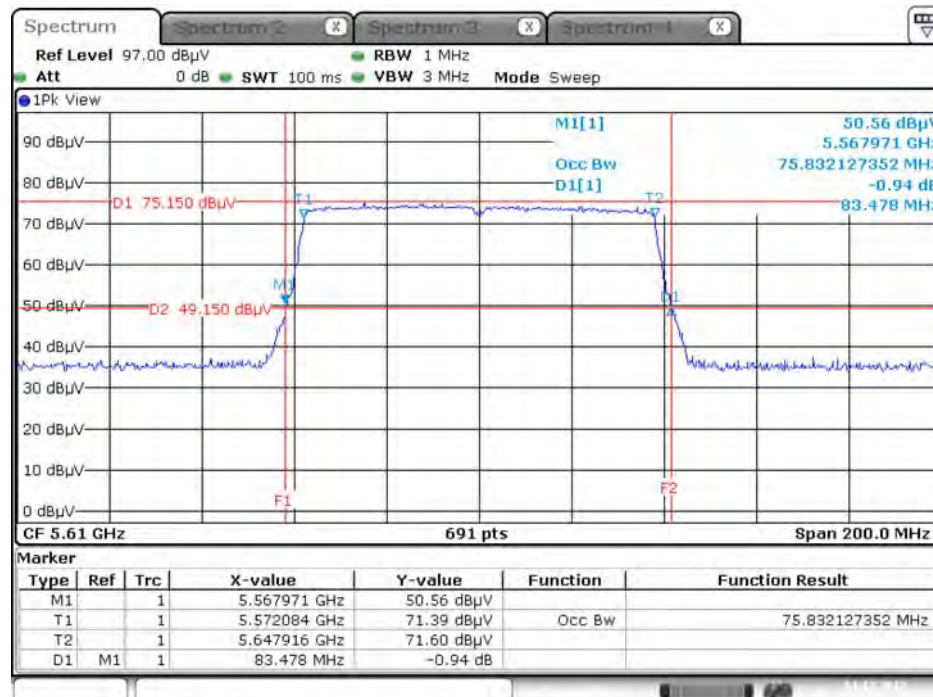
Date: 5 DEC. 2017 00:24:22

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5520 MHz



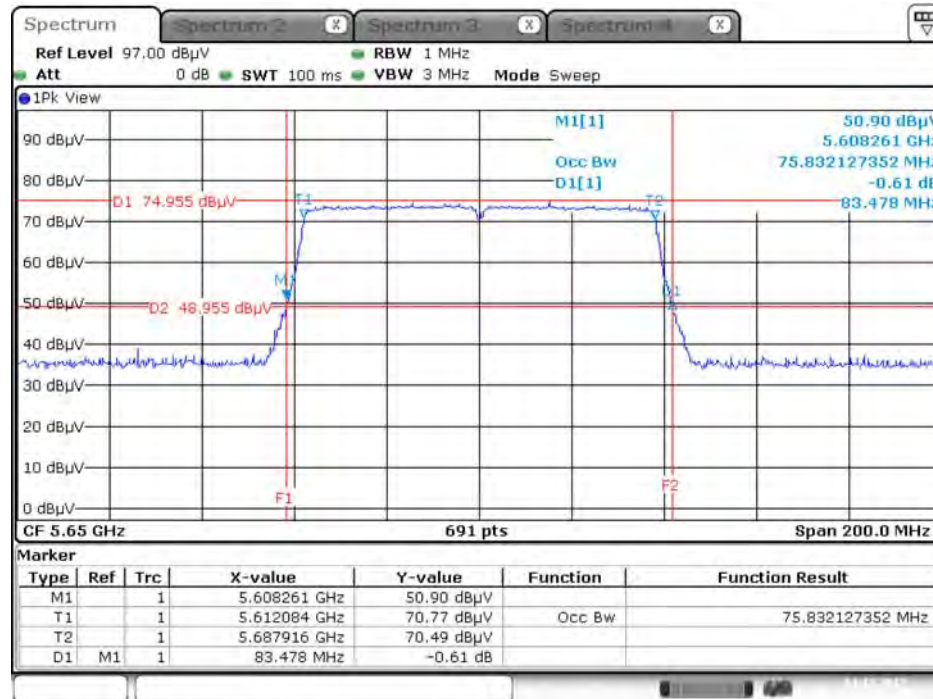
Date: 4 DEC. 2017 23:07:37

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5610 MHz



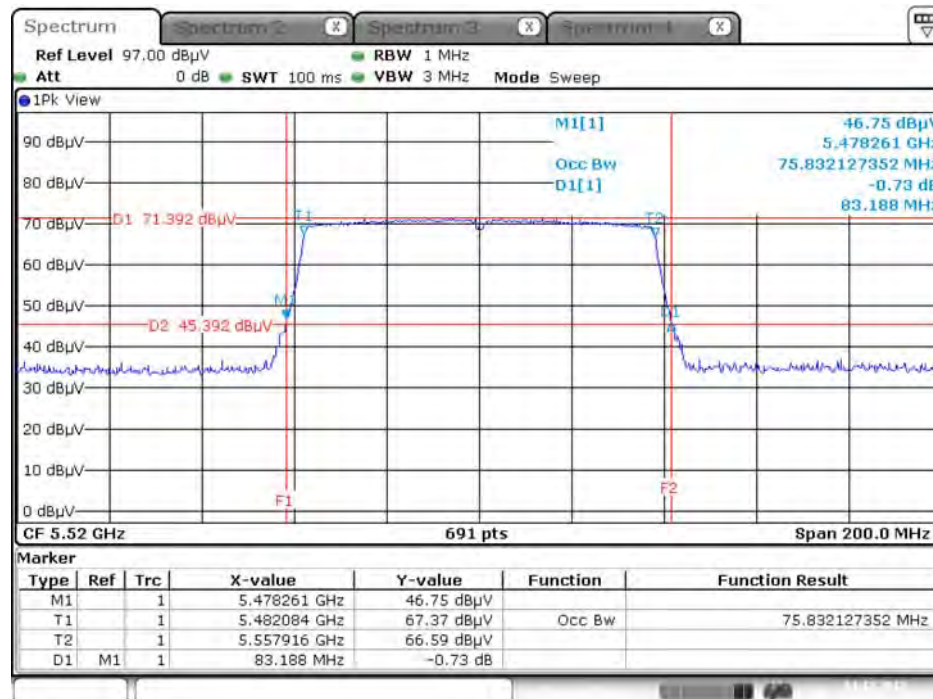
Date: 4 DEC. 2017 23:07:11

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5650 MHz



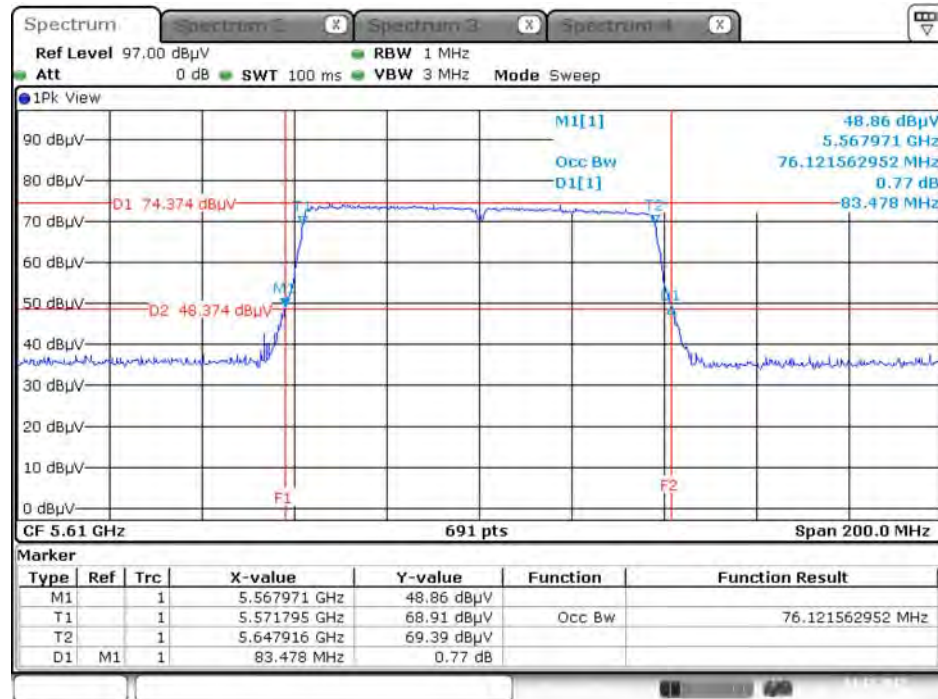
Date: 4 DEC. 2017 23:06:06

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5520 MHz



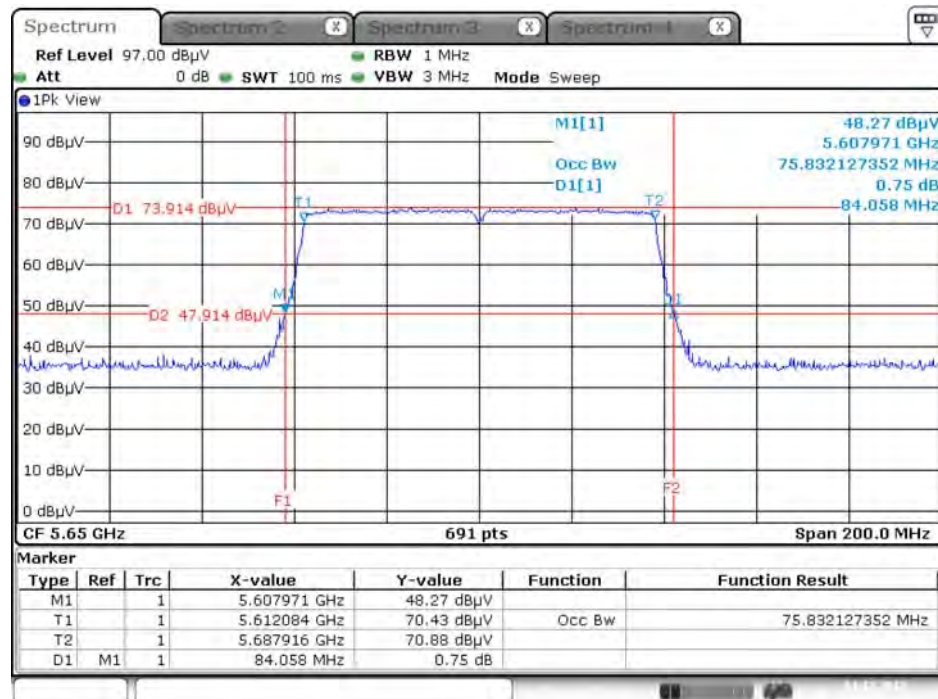
Date: 4 DEC. 2017 23:03:10

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5610 MHz



Date: 4 DEC. 2017 23:04:05

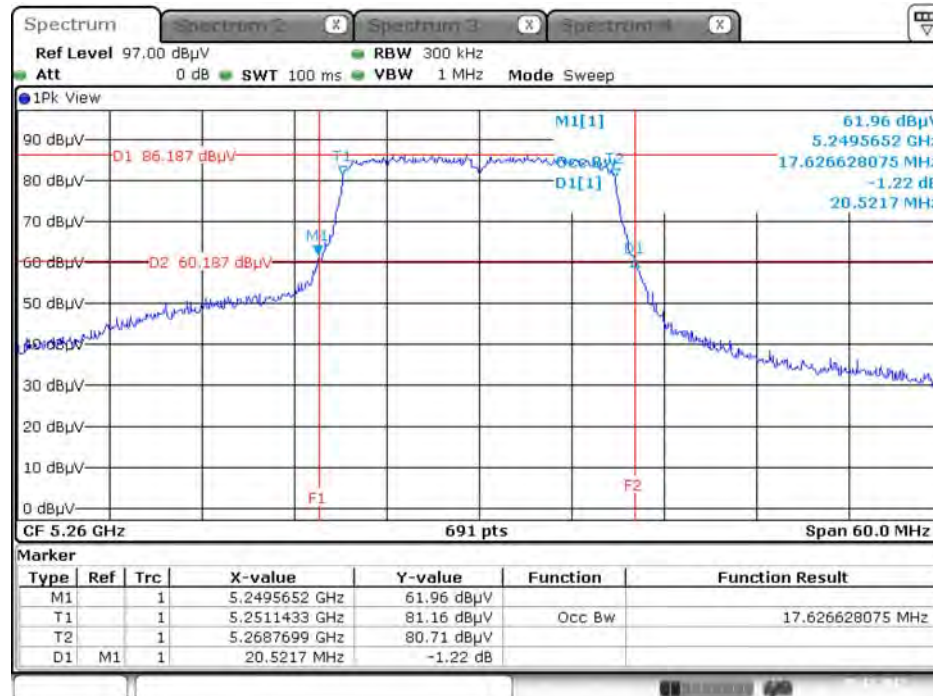
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5650 MHz



Date: 4 DEC. 2017 23:05:11

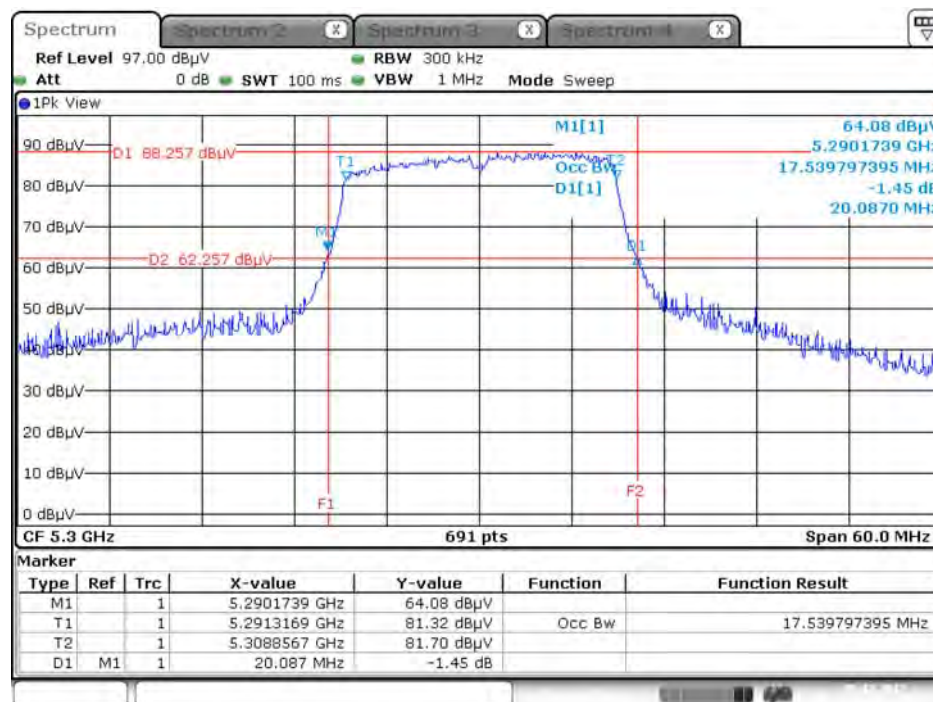
For Antenna 3:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5260 MHz



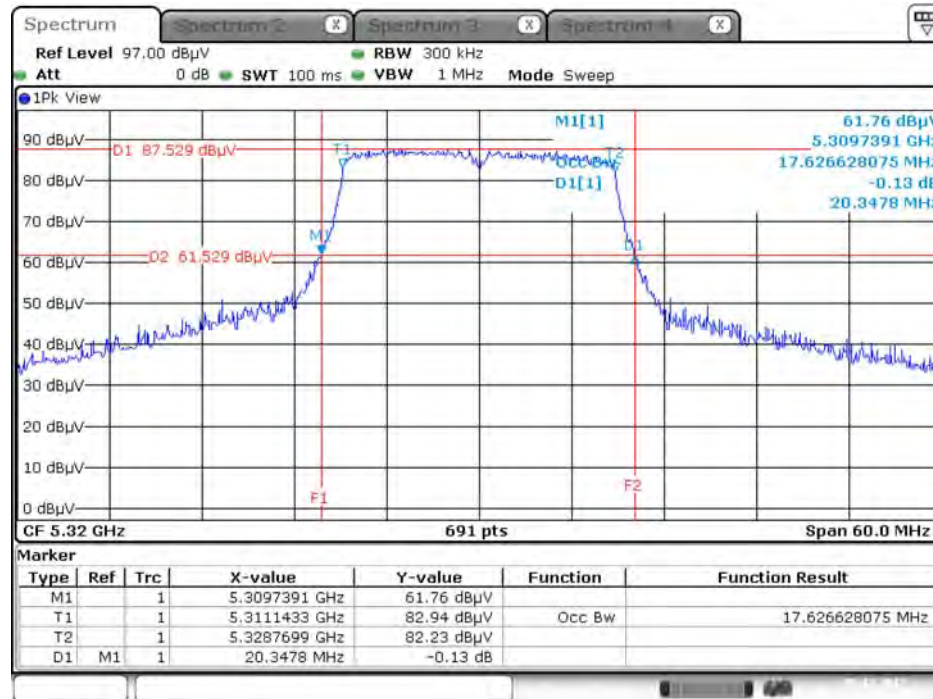
Date: 5.DEC.2017 00:58:05

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5300 MHz



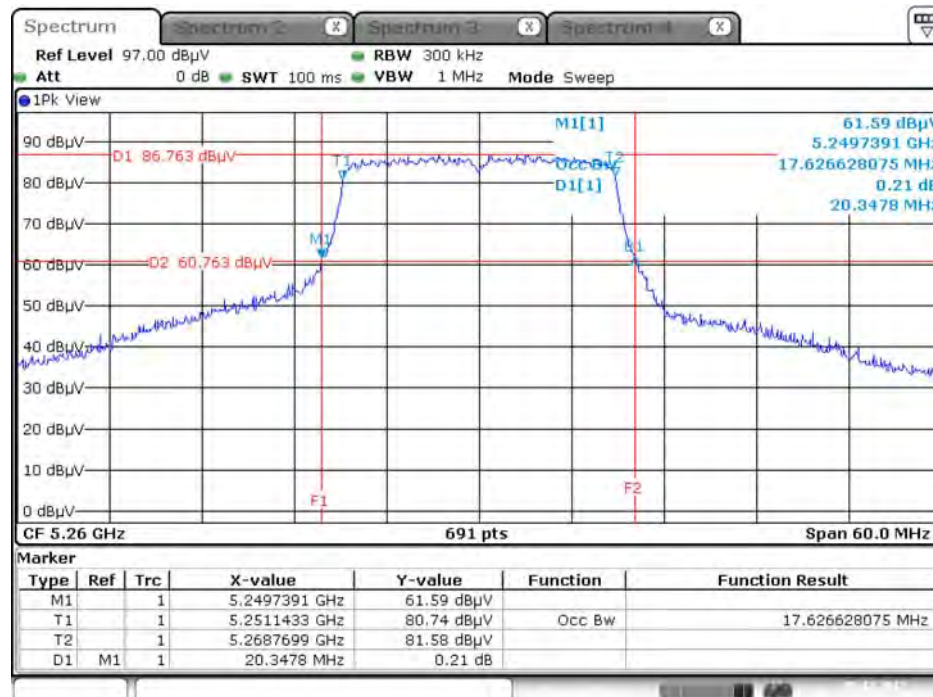
Date: 5.DEC.2017 00:57:25

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5320 MHz



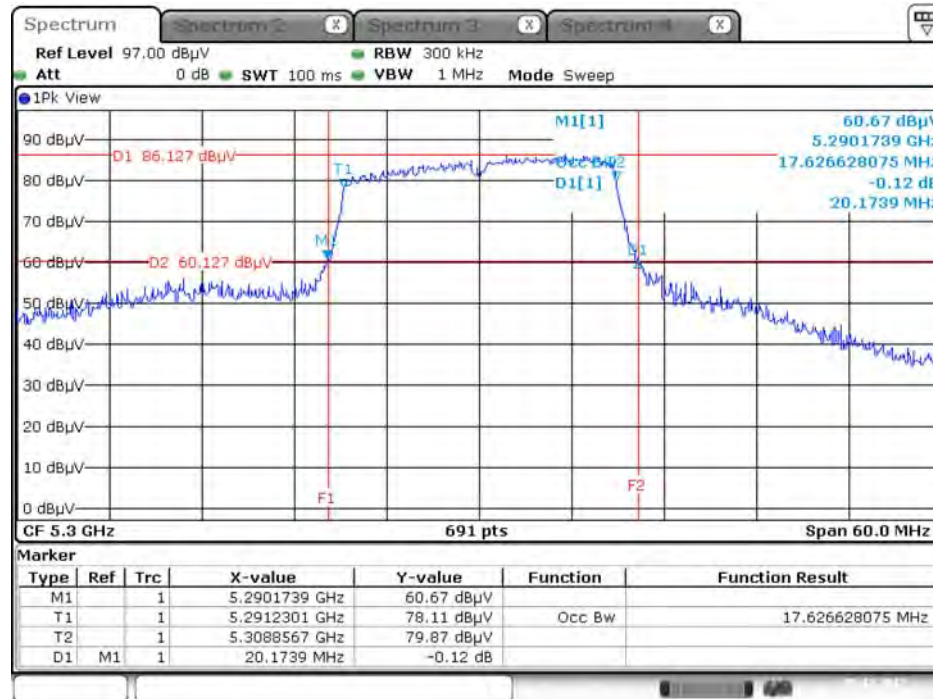
Date: 5.DEC.2017 01:00:08

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5260 MHz



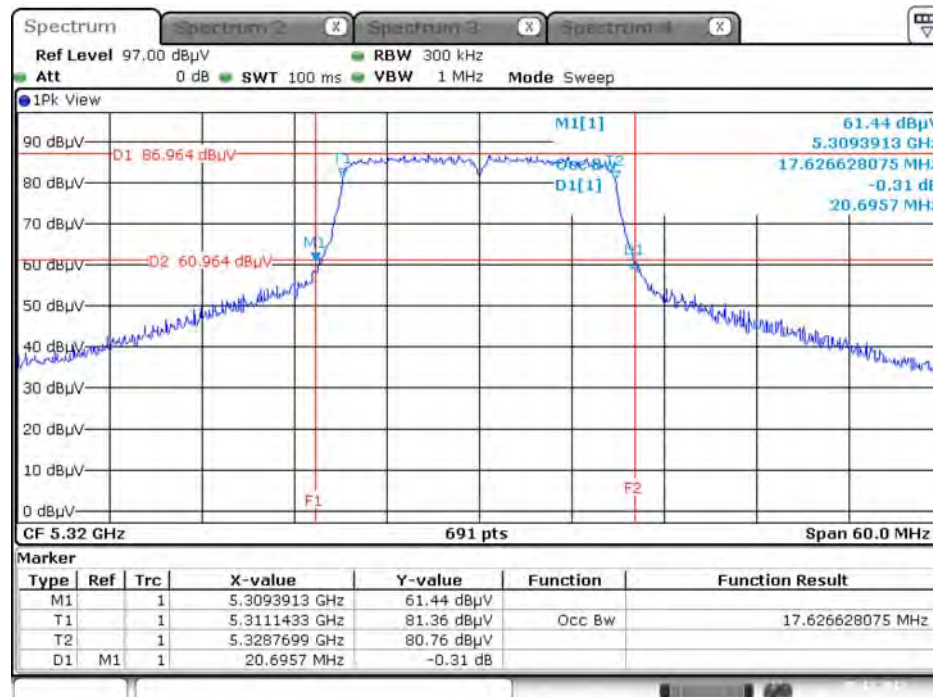
Date: 5.DEC.2017 01:11:09

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5300 MHz



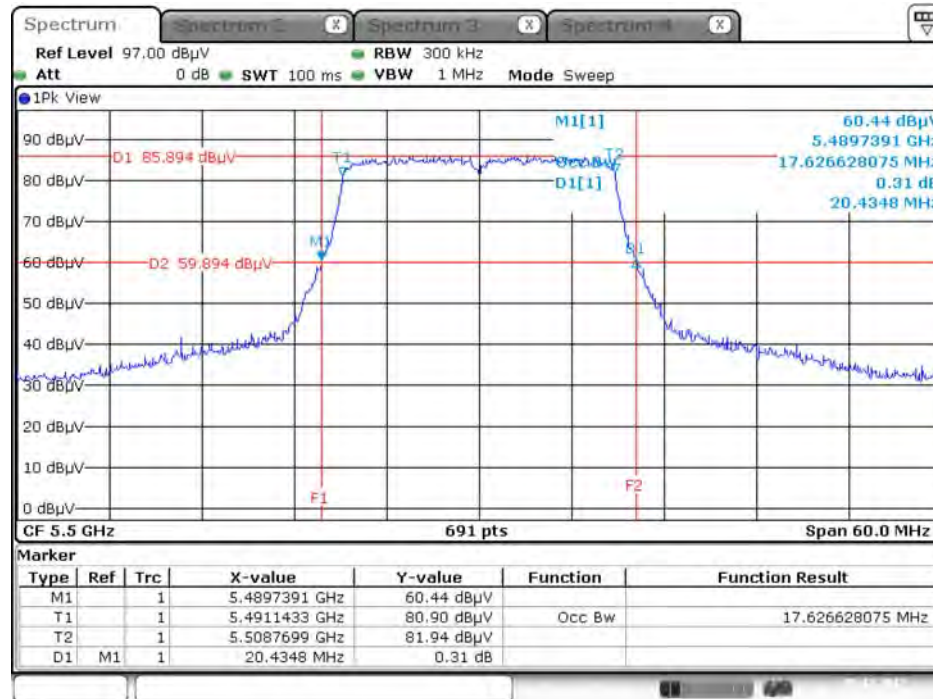
Date: 5 DEC. 2017 01:10:08

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5320 MHz



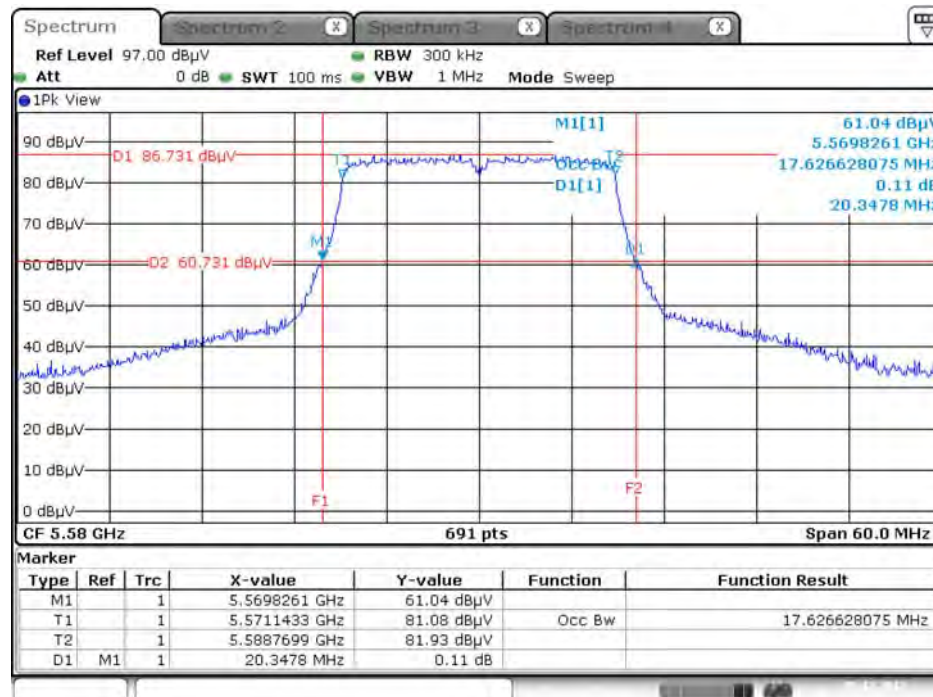
Date: 5 DEC. 2017 01:09:18

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5500 MHz



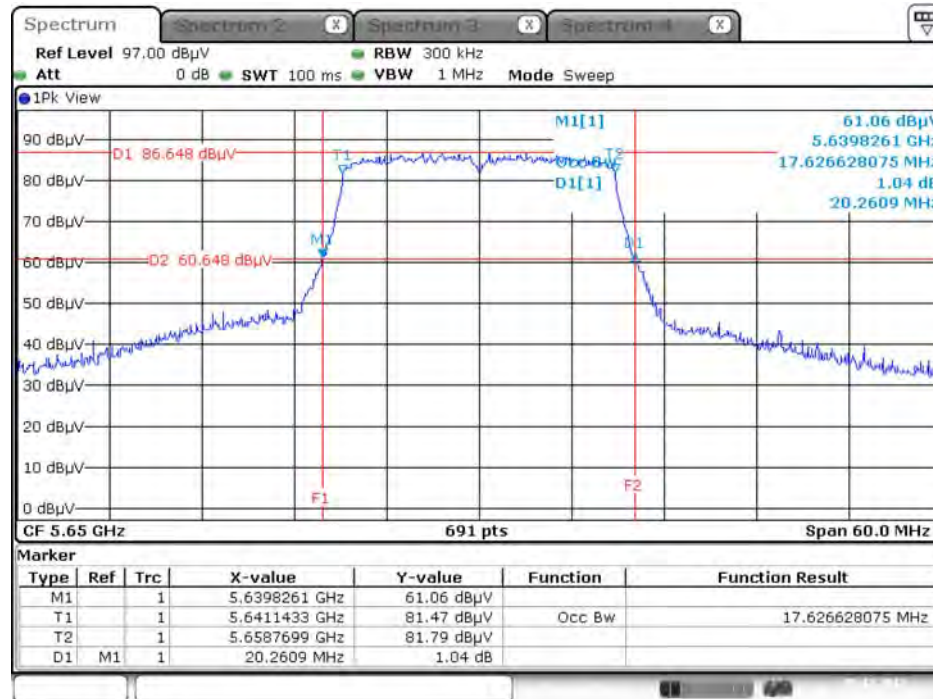
Date: 5 DEC. 2017 01:18:57

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5580 MHz



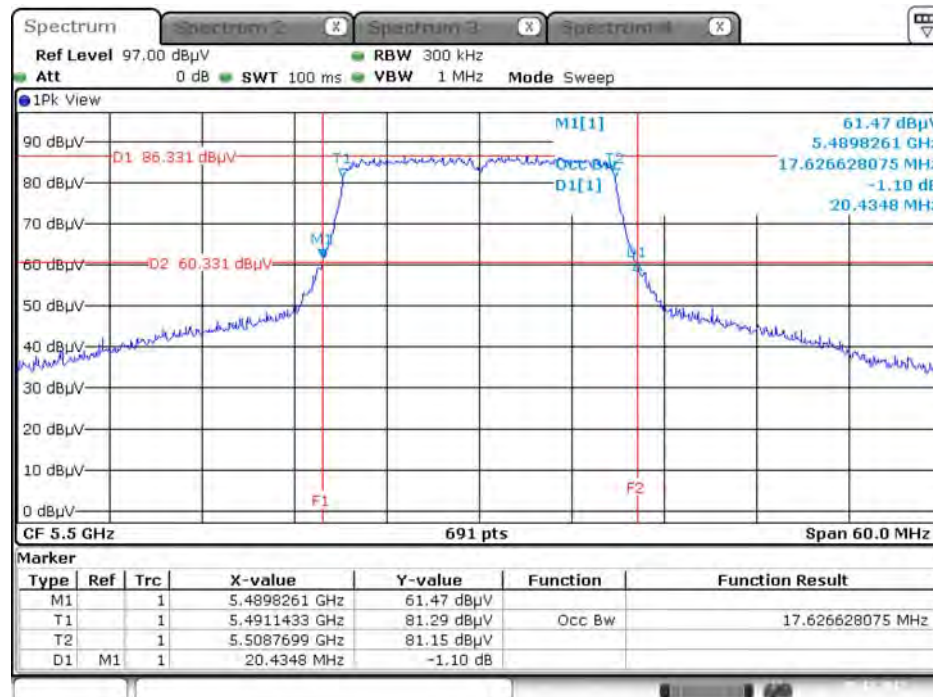
Date: 5 DEC. 2017 01:18:22

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5650 MHz



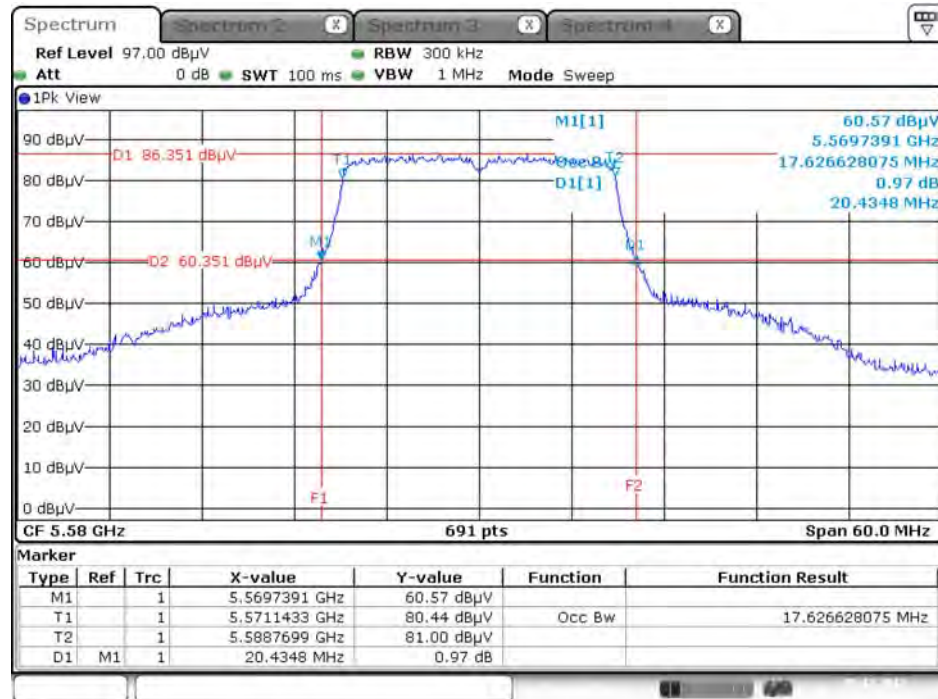
Date: 5.DEC.2017 01:17:43

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5500 MHz



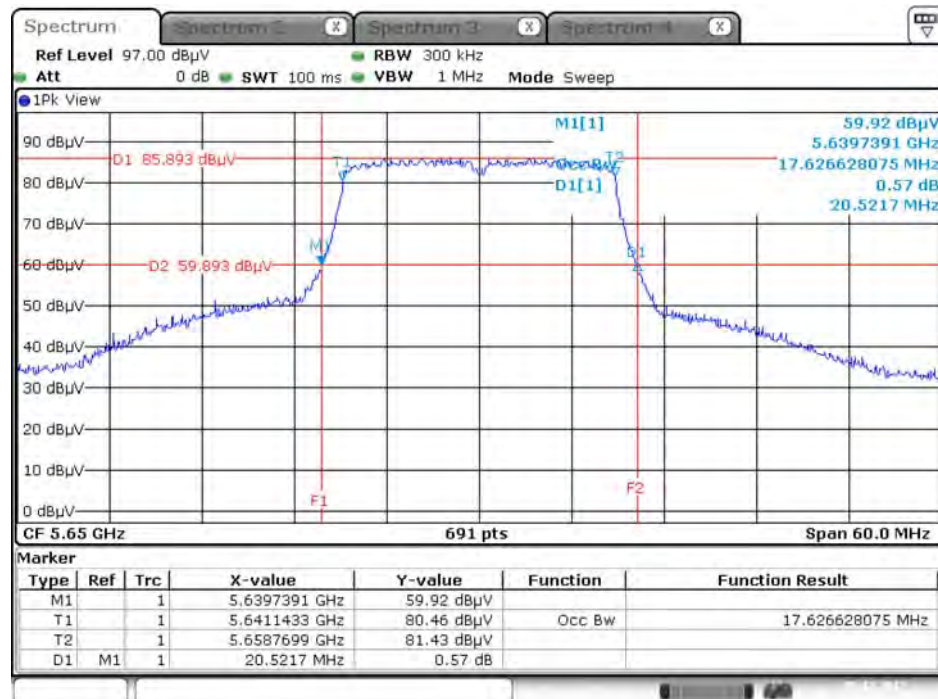
Date: 5.DEC.2017 01:15:33

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5580 MHz



Date: 5.DEC.2017 01:16:07

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5650 MHz



Date: 5.DEC.2017 01:16:40

Temperature	22°C	Humidity	54%
Test Engineer	Ron Huang / Lucke Hsieh / Brian Sun / Serway Li		

Straddle Channel

For Antenna 2:

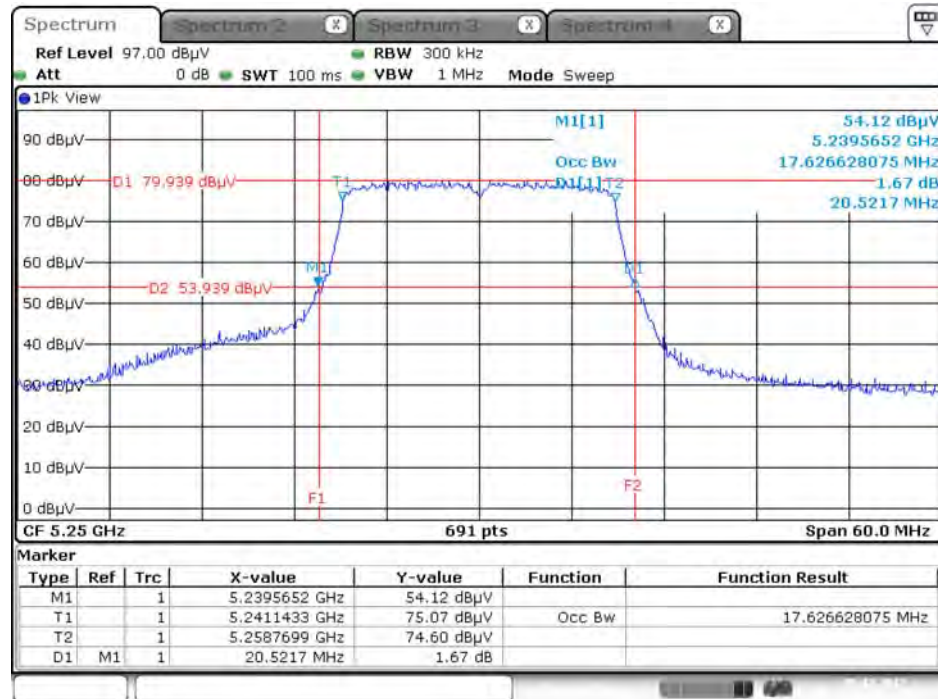
Mode	Frequency	Port 1							
Mode	Frequency	26dB BW (MHz)	99% OBW (MHz)	26dB BW F1 (MHz)	99% OBW T1 (MHz)	UNII 2C 26dB BW (MHz)	UNII 3 26dB BW (MHz)	UNII 2C 99% BW (MHz)	UNII 3 99% BW (MHz)
20M	5250MHz	20.52	17.63	5239.57	5241.14	10.43	10.09	8.86	8.77
	5720MHz	20.44	17.71	5709.74	5711.14	15.26	5.17	13.86	3.86
80M	5250MHz	79.80	72.33	5209.20	5212.24	40.80	39.00	37.76	34.57
	5720MHz	83.48	78.12	5678.55	5682.08	46.45	37.03	42.92	35.20
Mode	Frequency	Port 2							
Mode	Frequency	26dB BW (MHz)	99% OBW (MHz)	26dB BW F1 (MHz)	99% OBW T1 (MHz)	UNII 2C 26dB BW (MHz)	UNII 3 26dB BW (MHz)	UNII 2C 99% BW (MHz)	UNII 3 99% BW (MHz)
20M	5250MHz	20.35	17.71	5239.83	5241.14	10.17	10.17	8.86	8.86
	5720MHz	20.35	17.71	5709.83	5711.14	15.17	5.17	13.86	3.86
80M	5250MHz	80.20	71.93	5208.80	5212.24	41.20	39.00	37.76	34.17
	5720MHz	83.19	75.83	5678.84	5682.37	46.16	37.03	42.63	33.20

For Antenna 3:

Mode	Frequency	Port 1							
Mode	Frequency	26dB BW (MHz)	99% OBW (MHz)	26dB BW F1 (MHz)	99% OBW T1 (MHz)	UNII 2C 26dB BW (MHz)	UNII 3 26dB BW (MHz)	UNII 2C 99% BW (MHz)	UNII 3 99% BW (MHz)
20M	5250MHz	20.52	17.63	5239.48	5241.14	10.52	10.00	8.86	8.77
	5720MHz	20.43	17.63	5709.83	5711.14	15.17	5.26	13.86	3.77
Mode	Frequency	Port 2							
Mode	Frequency	26dB BW (MHz)	99% OBW (MHz)	26dB BW F1 (MHz)	99% OBW T1 (MHz)	UNII 2C 26dB BW (MHz)	UNII 3 26dB BW (MHz)	UNII 2C 99% BW (MHz)	UNII 3 99% BW (MHz)
20M	5250MHz	20.43	17.71	5239.91	5241.14	10.09	10.35	8.86	8.86
	5720MHz	20.35	17.71	5709.91	5711.14	15.09	5.26	13.86	3.86

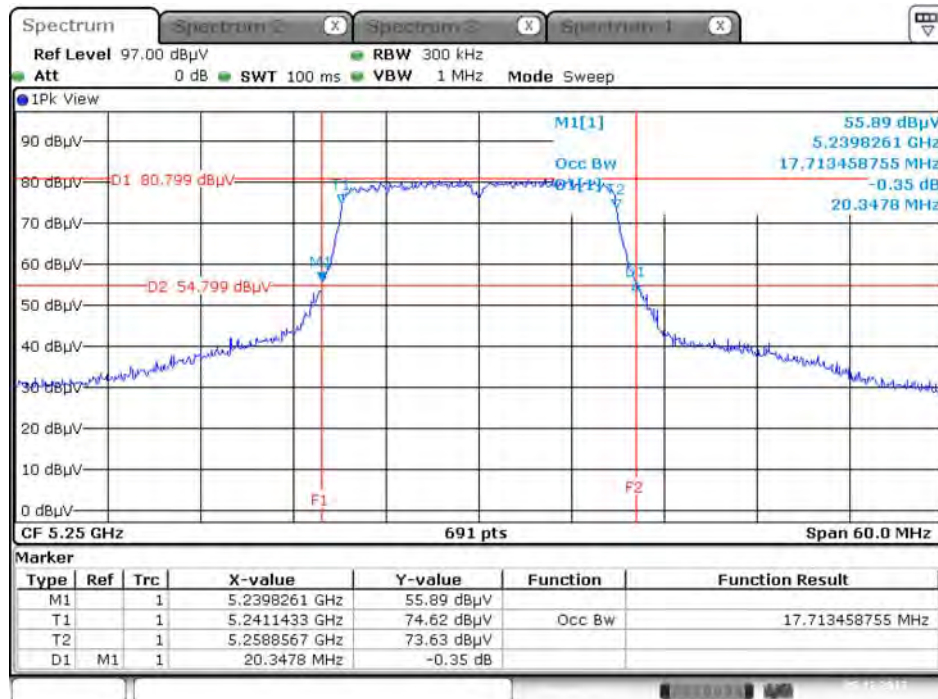
For Antenna 2:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5250 MHz



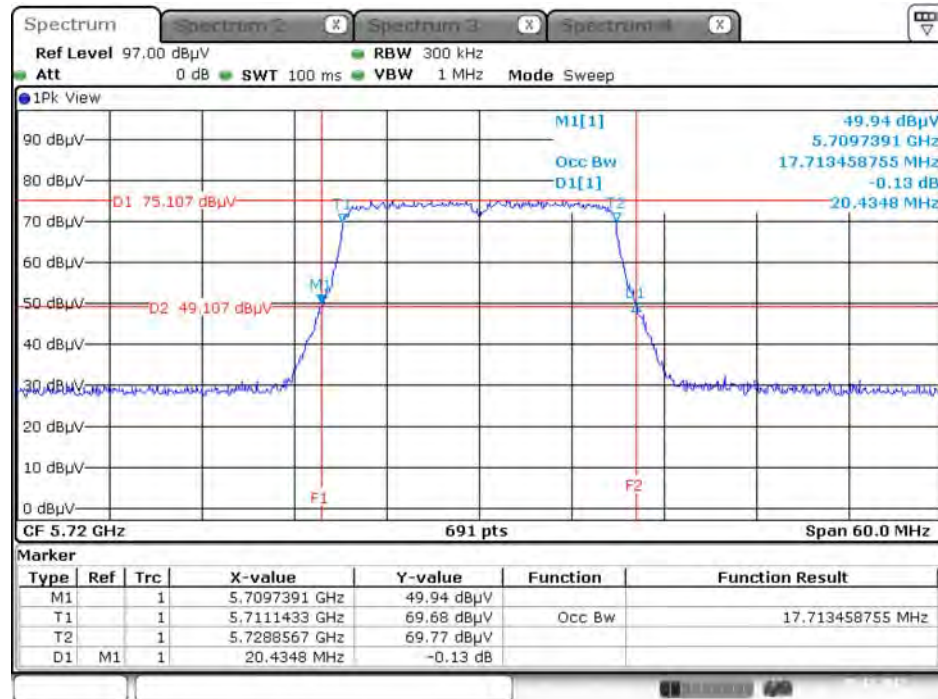
Date: 5 DEC. 2017 19:24:30

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5250 MHz



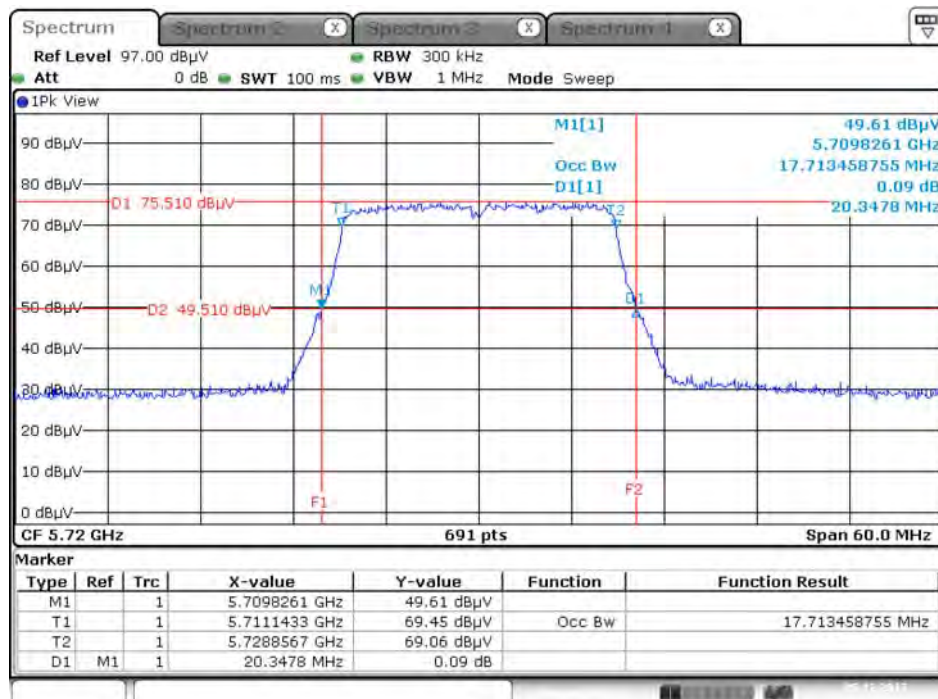
Date: 5 DEC. 2017 19:19:44

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5720 MHz



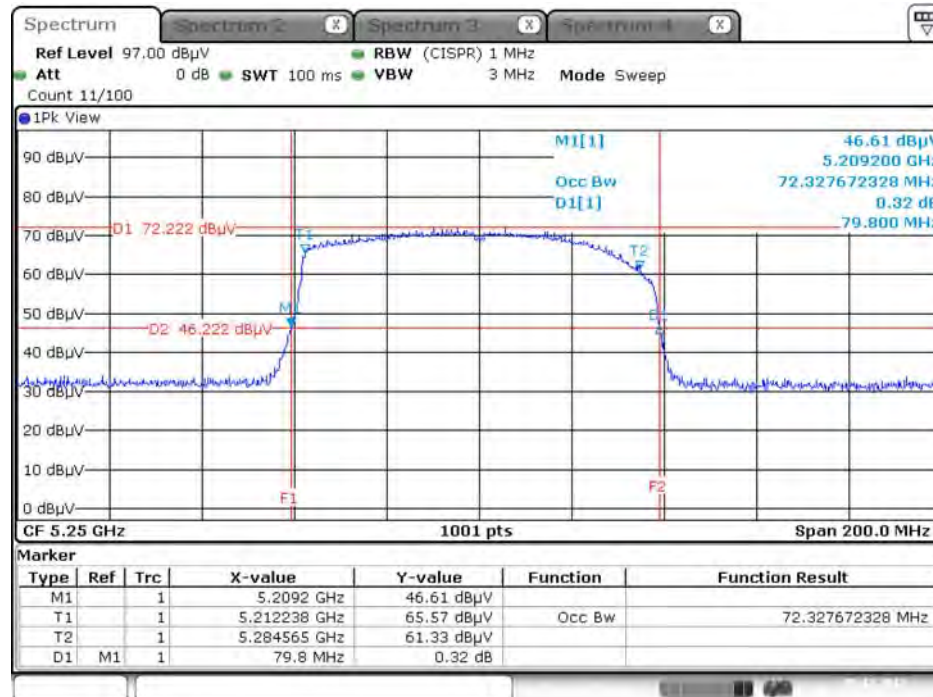
Date: 5.DEC.2017 19:28:04

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5720 MHz



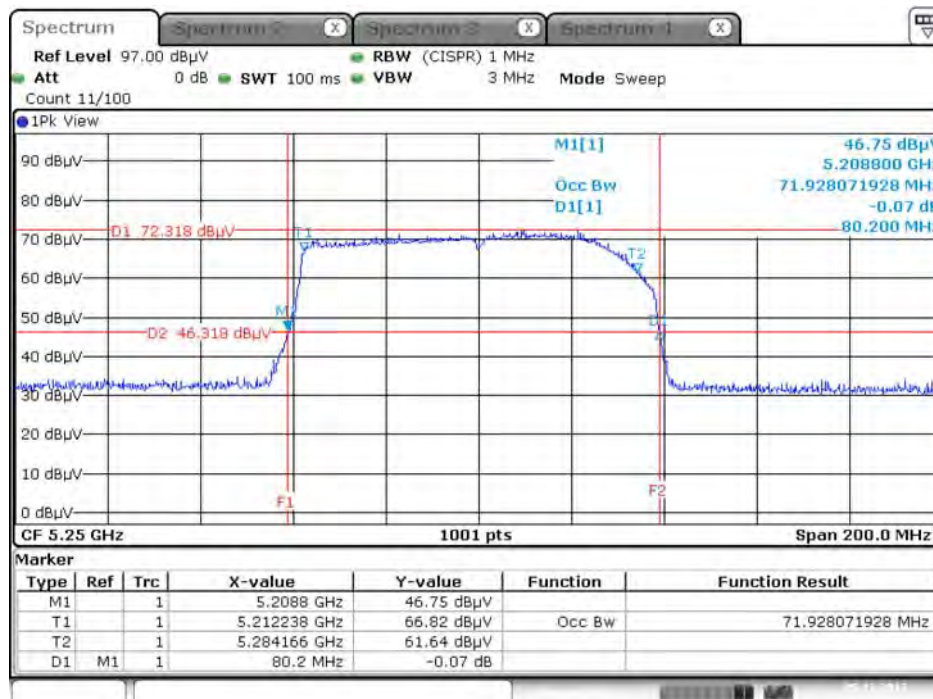
Date: 5.DEC.2017 19:27:19

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5250 MHz



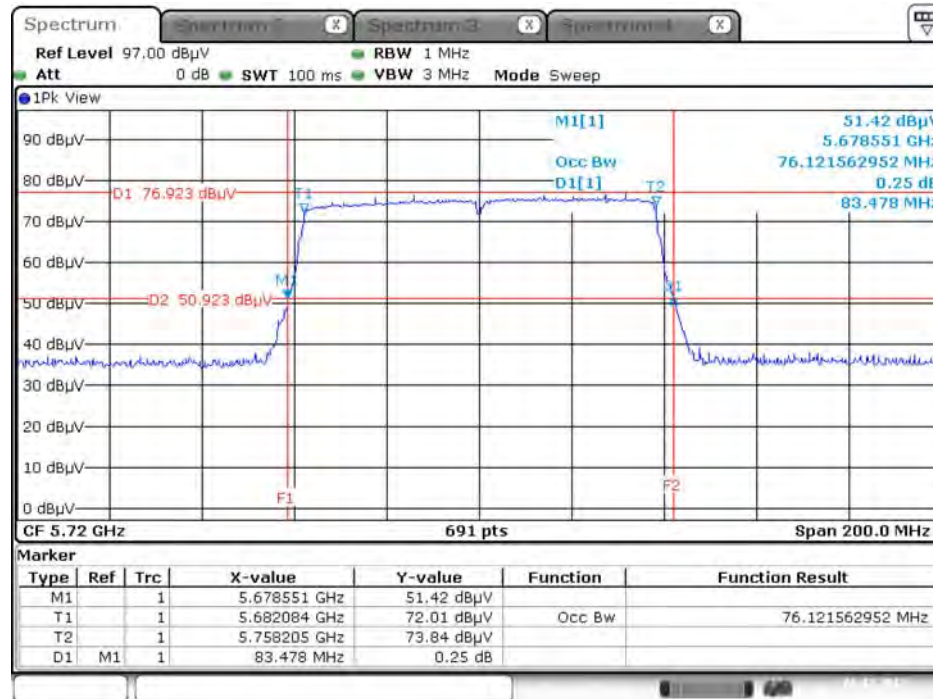
Date: 5 DEC. 2017 20:31:42

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5250 MHz



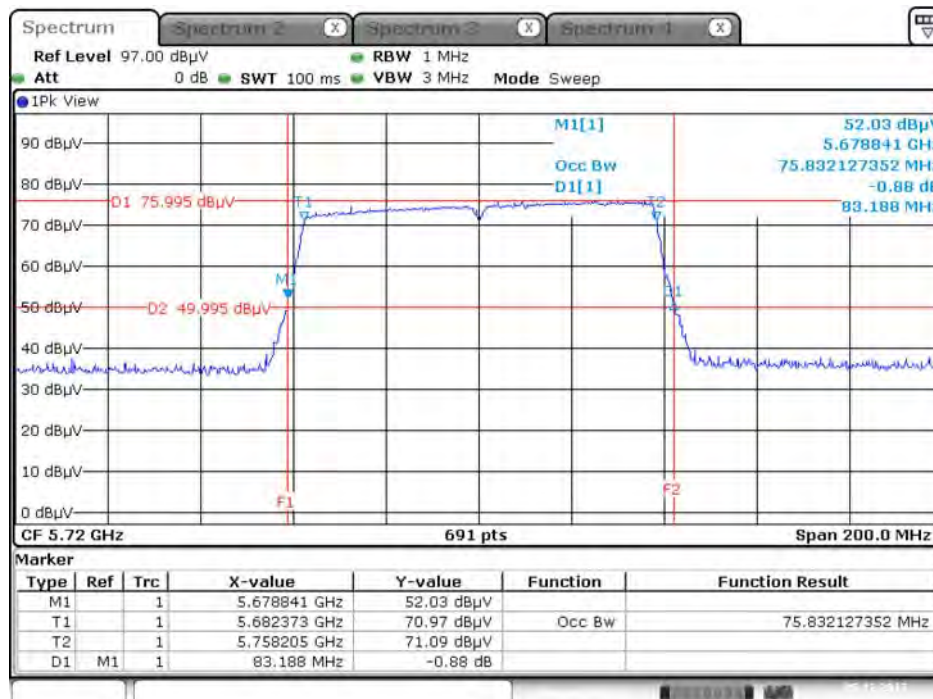
Date: 5 DEC. 2017 20:32:57

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5720 MHz



Date: 6 DEC. 2017 14:38:37

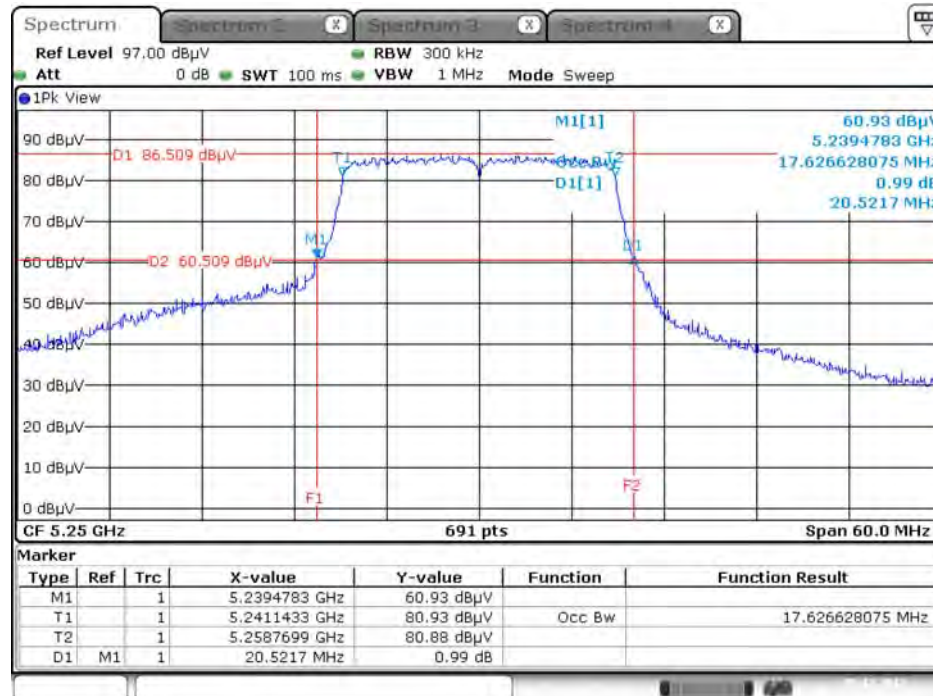
26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5720 MHz



Date: 5 DEC. 2017 20:12:35

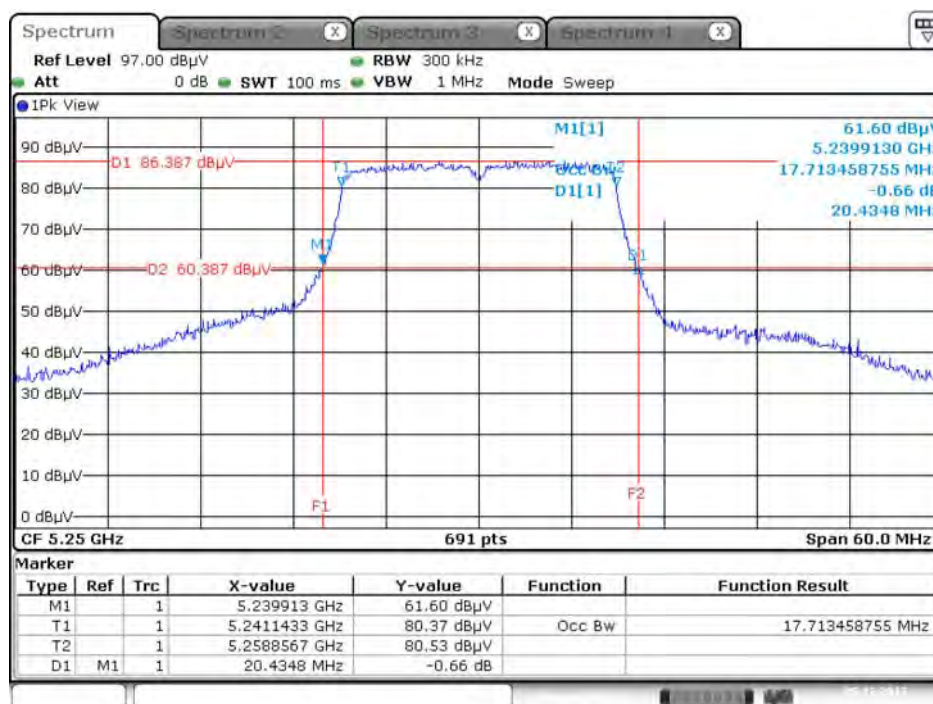
For Antenna 3:

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5250 MHz



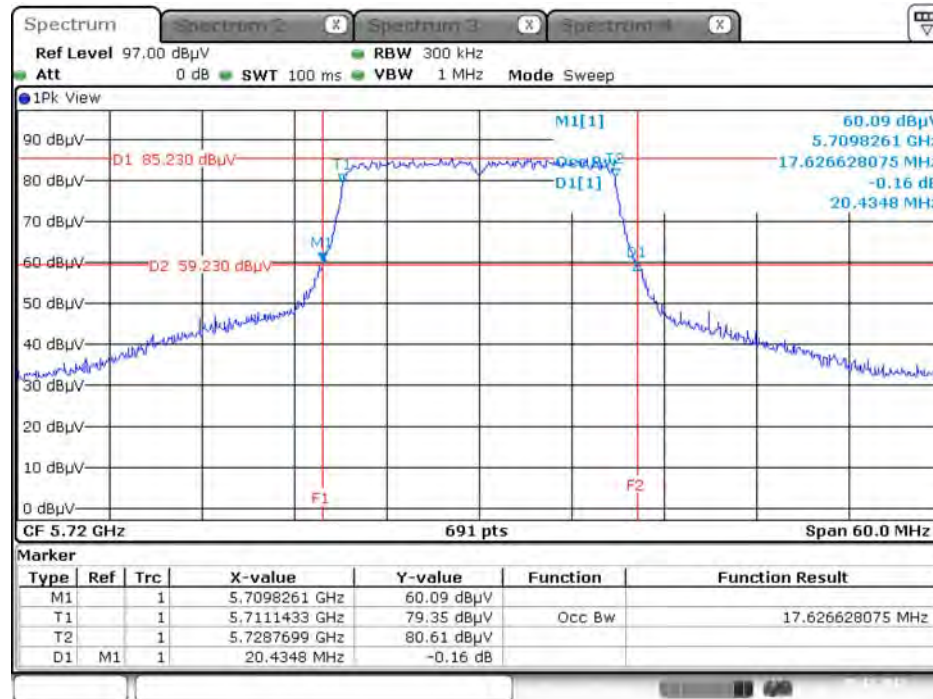
Date: 5 DEC. 2017 15:54:27

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5250 MHz



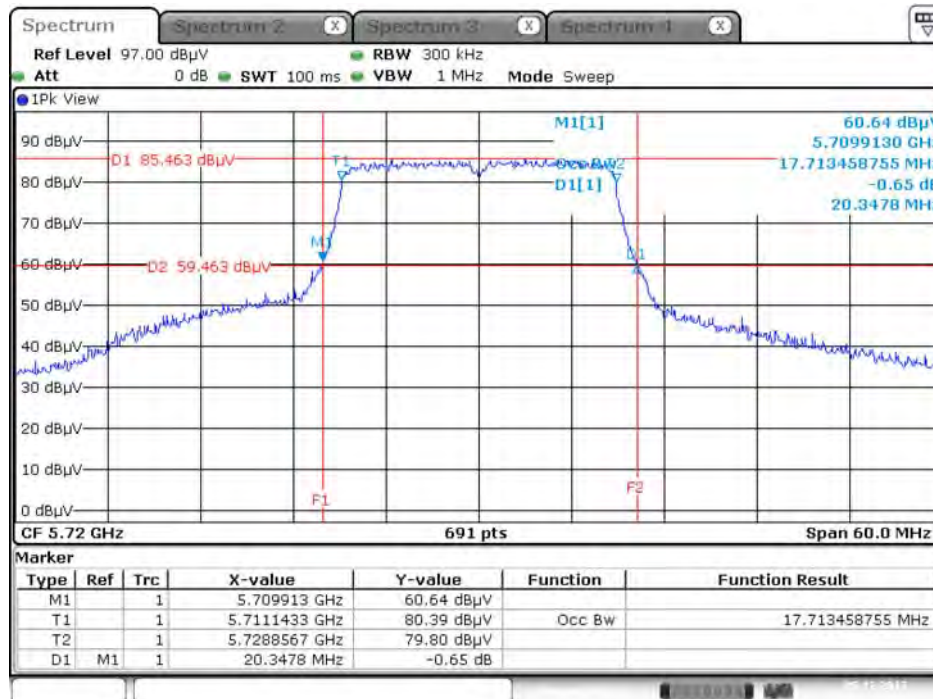
Date: 5 DEC. 2017 15:51:45

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5720 MHz



Date: 5 DEC. 2017 14:48:41

26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5720 MHz



Date: 5 DEC. 2017 14:40:50

4.2. 6dB Spectrum Bandwidth Measurement

4.2.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.2.2. Measuring Instruments and Setting

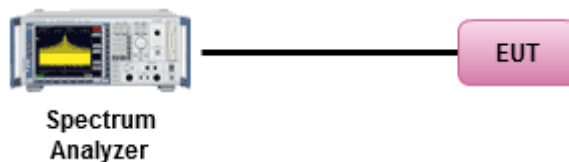
Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

6dB Spectrum Bandwidth	
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RBW	100kHz
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.2.3. Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☒	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.2.7. Test Result of 6dB Spectrum Bandwidth

Temperature	22°C	Humidity	54%
Test Engineer	Ron Huang / Lucke Hsieh / Brian Sun / Serway Li		

Straddle Channel

For Antenna 2:

Mode	Frequency	Port 1				
Mode	Frequency	6dB BW (MHz)	6dB BW M1 (MHz)	UNII 3 BW (MHz)	Min. Limit (kHz)	Test Result
20M	5720 MHz	17.57	5711.19	3.75	500	Complies
80M	5720 MHz	74.20	5683.77	32.97	500	Complies
Mode	Frequency	Port 2				
Mode	Frequency	6dB BW (MHz)	6dB BW M1 (MHz)	UNII 3 BW (MHz)	Min. Limit (kHz)	Test Result
20M	5720 MHz	17.62	5711.19	3.81	500	Complies
80M	5720 MHz	75.94	5682.32	33.26	500	Complies

For Antenna 3:

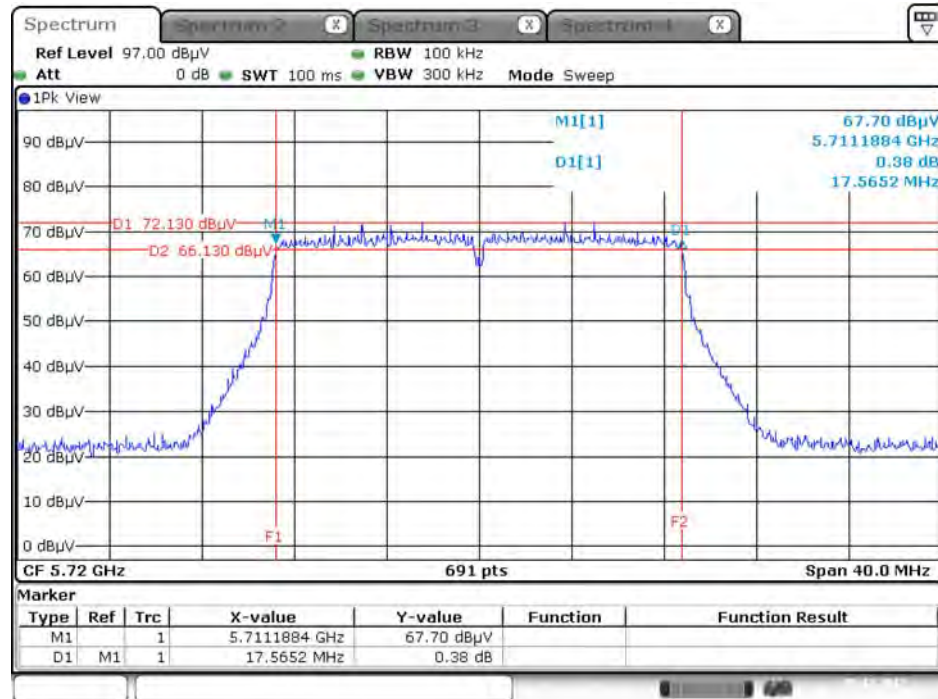
Mode	Frequency	Port 1				
Mode	Frequency	6dB BW (MHz)	6dB BW M1 (MHz)	UNII 3 BW (MHz)	Min. Limit (kHz)	Test Result
20M	5720 MHz	17.57	5711.19	3.75	500	Complies
Mode	Frequency	Port 2				
Mode	Frequency	6dB BW (MHz)	6dB BW M1 (MHz)	UNII 3 BW (MHz)	Min. Limit (kHz)	Test Result
20M	5720 MHz	17.57	5711.19	3.75	500	Complies

Note: All the test values were listed in the report.

For plots, only the channel with worse result was shown.

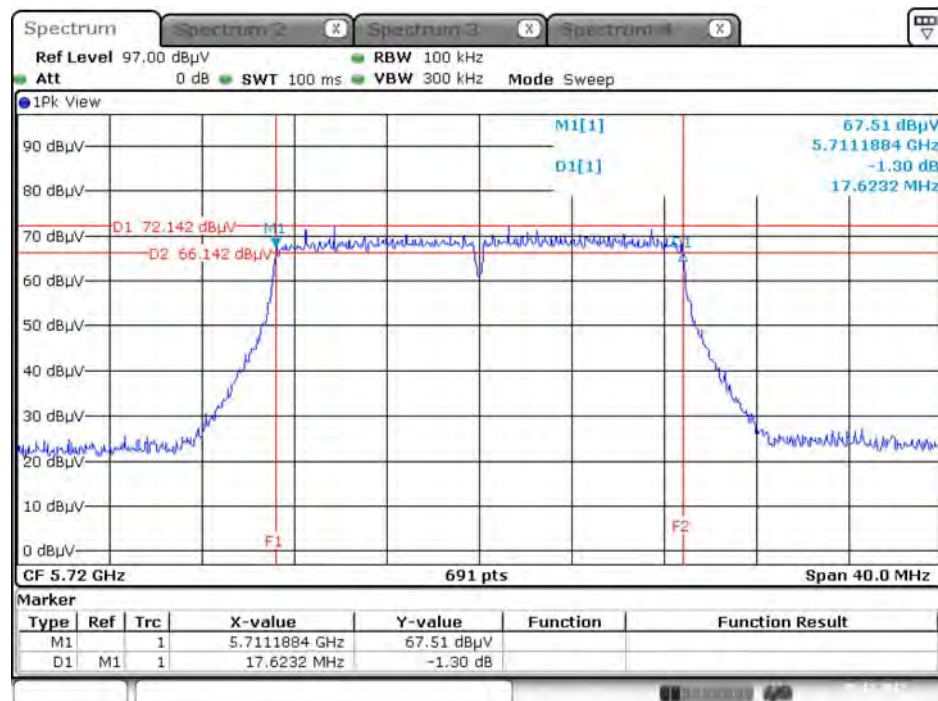
For Antenna 2:

6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5720 MHz



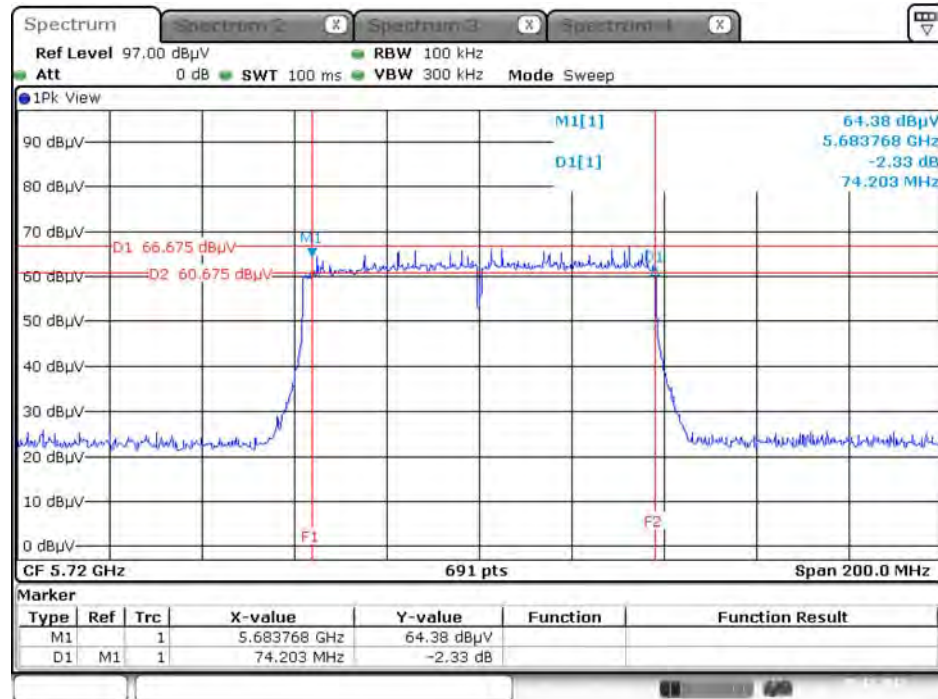
Date: 5.DEC.2017 21:59:00

6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5720 MHz



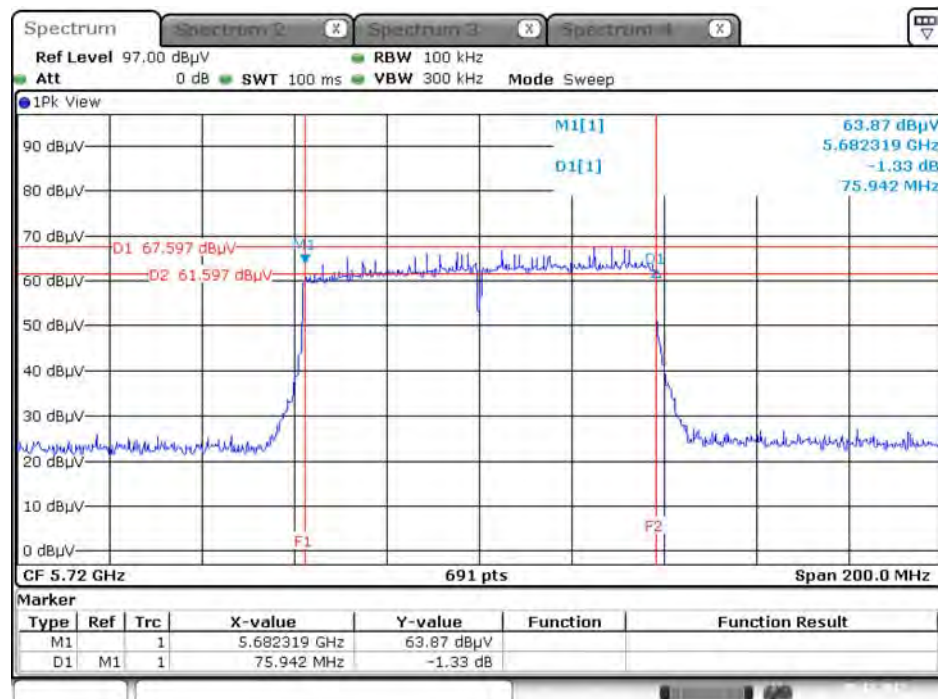
Date: 5.DEC.2017 21:59:54

6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 1 / 5720 MHz



Date: 5.DEC.2017 21:52:17

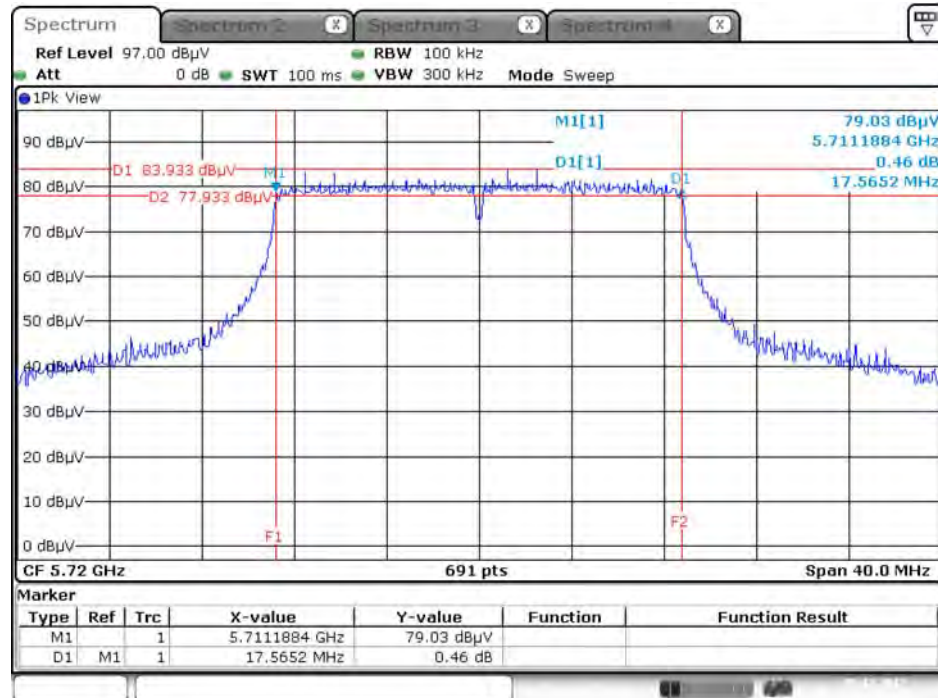
6 dB Bandwidth Plot on Configuration QPSK, 80M / Port 2 / 5720 MHz



Date: 5.DEC.2017 21:50:46

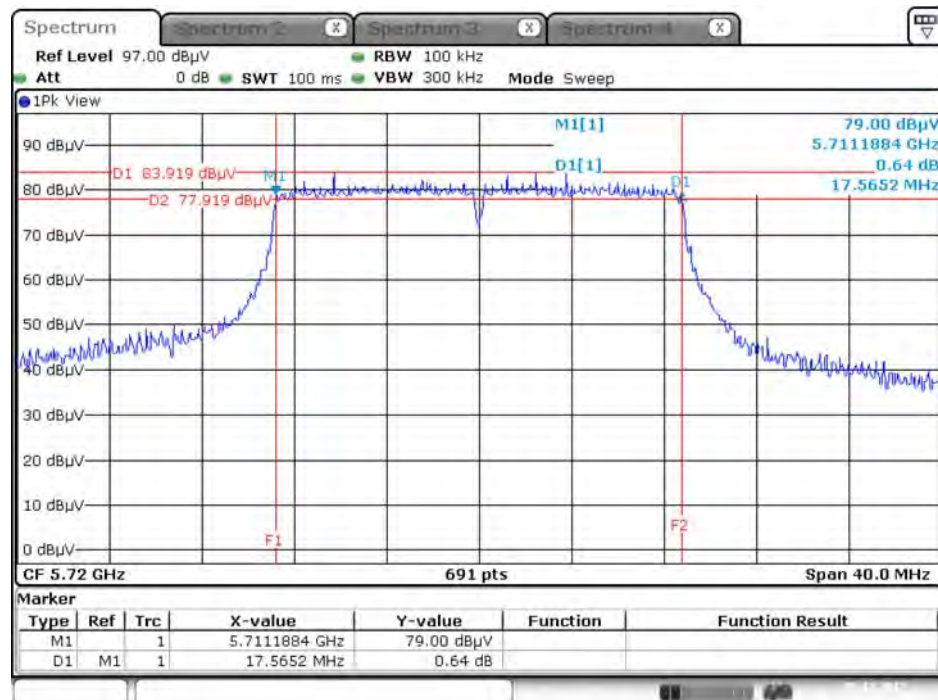
For Antenna 3:

6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 1 / 5720 MHz



Date: 5.DEC.2017 22:47:27

6 dB Bandwidth Plot on Configuration QPSK, 20M / Port 2 / 5720 MHz



Date: 5.DEC.2017 22:46:24

4.3. Maximum Conducted Output Power Measurement

4.3.1. Limit

Frequency Band		Limit
☒	5.15~5.25 GHz	
	Operating Mode	
	☐ Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
	☐ Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
	☒ Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
	☐ Client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

☒	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm $10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☒	5.470-5.725 GHz	
☒	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

4.3.2. Measuring Instruments and Setting

For Other Channel

Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Detector	AVERAGE

For Straddle Channel

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 000 kHz
VBW	3000 kHz
Detector	RMS
Trace	Average Sweep count 100
Sweep Time	Auto

4.3.3. Test Procedures

For Other Channel

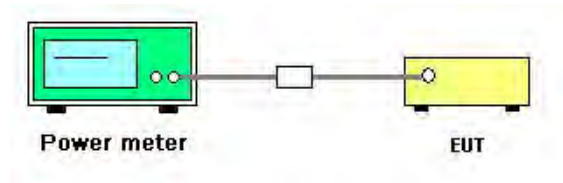
1. The transmitter output (antenna port) was connected to the power meter.
2. Test was performed in accordance with KDB789033 D02 v02r01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G (Measurement using a gated RF average power meter).
3. Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
4. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

For Straddle Channel

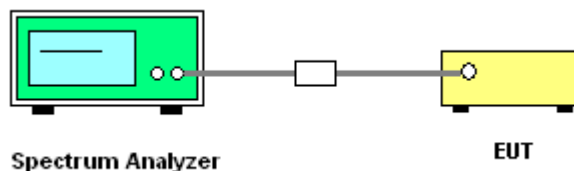
1. The transmitter output (antenna port) was connected to the spectrum analyzer.

4.3.4. Test Setup Layout

For Other Channel



For Straddle Channel



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of Maximum Conducted Output Power

Temperature	22°C	Humidity	54%
Test Engineer	Ron Huang / Lucke Hsieh / Brian Sun / Serway Li	Test Date	Nov. 16, 2017~Dec. 08, 2017

For Antenna 2:

Mode	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Port 1	Port 2	Total		
20M	5260 MHz	1.42	2.11	4.79	4.98	Complies
	5300 MHz	-4.59	-4.18	-1.37	4.98	Complies
	5320 MHz	-4.61	-4.19	-1.38	4.98	Complies
	5500 MHz	-7.26	-6.73	-3.98	4.98	Complies
	5580 MHz	-4.83	-5.69	-2.23	4.98	Complies
	5650 MHz	-5.37	-5.56	-2.45	4.98	Complies
80M	5290 MHz	-4.67	-4.06	-1.34	4.98	Complies
	5300 MHz	-4.68	-4.33	-1.49	4.98	Complies
	5520 MHz	-6.45	-6.28	-3.35	4.98	Complies
	5610 MHz	-3.02	-3.74	-0.35	4.98	Complies
	5650 MHz	-3.34	-3.71	-0.51	4.98	Complies

For Antenna 3:

Mode	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Port 1	Port 2	Total		
20M	5260 MHz	20.28	20.89	23.61	23.98	Complies
	5300 MHz	21.66	19.22	23.62	23.98	Complies
	5320 MHz	21.53	20.09	23.88	23.98	Complies
	5500 MHz	20.31	20.92	23.64	23.98	Complies
	5580 MHz	20.62	20.41	23.53	23.98	Complies
	5650 MHz	20.78	20.37	23.59	23.98	Complies

Straddle Channel

For Antenna 2:

Mode	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Port 1	Port 2	Total		
20M	5250MHz (UNII 1)	-1.56	-1.17	1.65	11.00	Complies
	5250MHz (UNII 2A)	-1.86	-0.83	1.70	2.04	Complies
	5720 MHz (UNII 2C)	-4.52	-4.02	-1.25	3.81	Complies
	5720 MHz (UNII 3)	-10.10	-9.24	-6.64	30.00	Complies
80M	5250MHz (UNII 1)	-8.16	-8.03	-5.08	28.00	Complies
	5250MHz (UNII 2A)	-9.32	-7.97	-5.58	4.98	Complies
	5720 MHz (UNII 2C)	-6.14	-6.02	-3.07	4.98	Complies
	5720 MHz (UNII 3)	-6.43	-5.66	-3.02	30.00	Complies

For Antenna 3:

Mode	Frequency	Conducted Power (dBm)			Max. Limit (dBm)	Result
		Port 1	Port 2	Total		
20M	5250MHz (UNII 1)	17.38	17.68	20.54	30.00	Complies
	5250MHz (UNII 2A)	17.32	18.05	20.71	21.00	Complies
	5720 MHz (UNII 2C)	19.57	19.63	22.61	22.79	Complies
	5720 MHz (UNII 3)	13.95	14.04	17.01	30.00	Complies

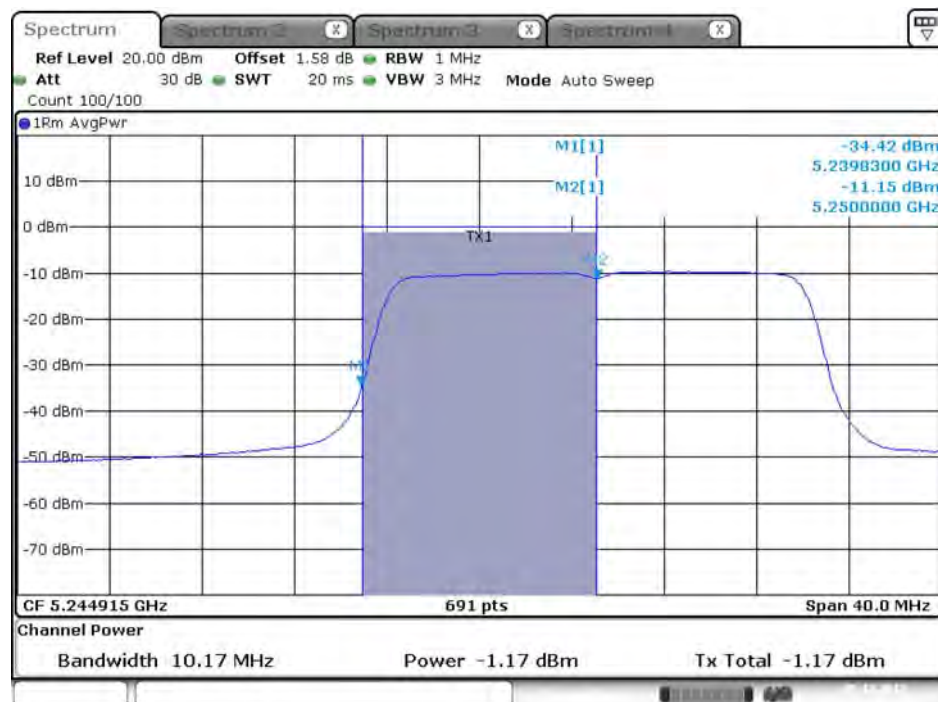
For Antenna 2:

Conducted Output Power Plot on Configuration QPSK, 20M / Port 1 / 5250 MHz (UNII 1)



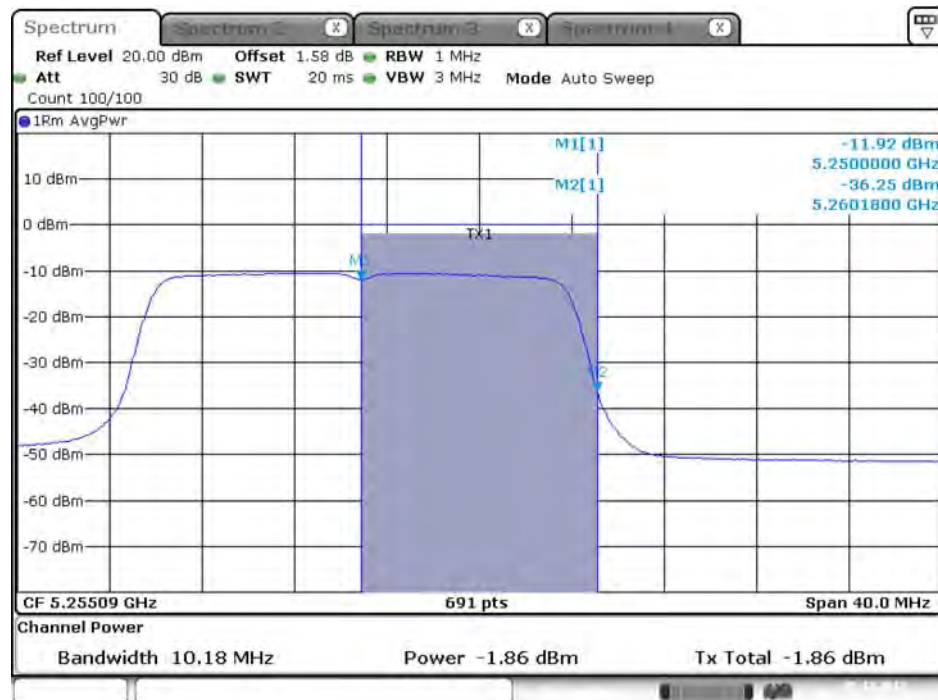
Date: 5 DEC. 2017 22:13:38

Conducted Output Power Plot on Configuration QPSK, 20M / Port 2 / 5250 MHz (UNII 1)



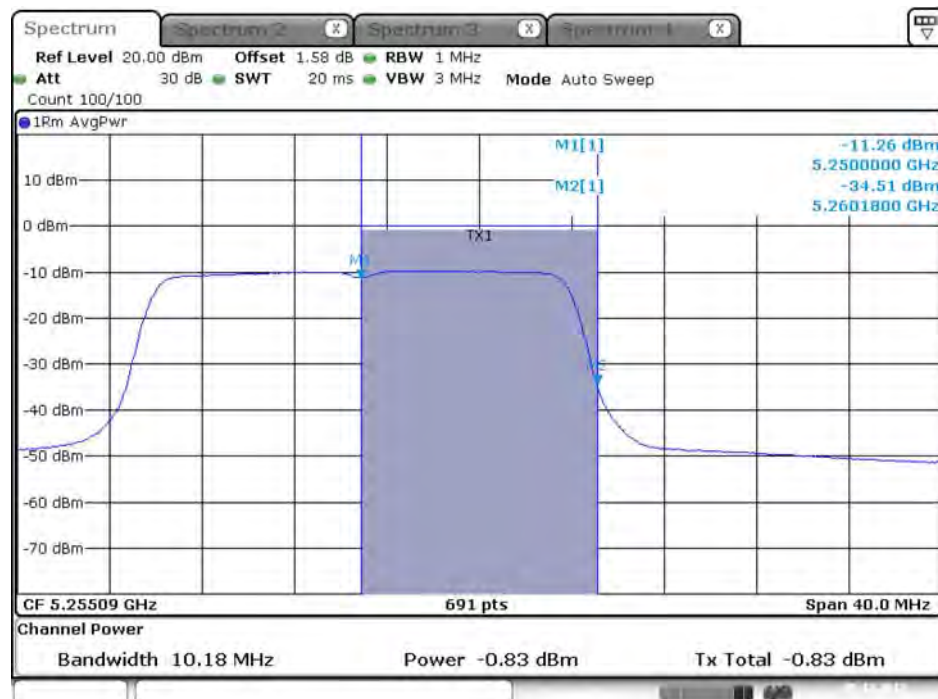
Date: 5 DEC. 2017 22:16:11

Conducted Output Power Plot on Configuration QPSK, 20M / Port 1 / 5250 MHz (UNII 2A)



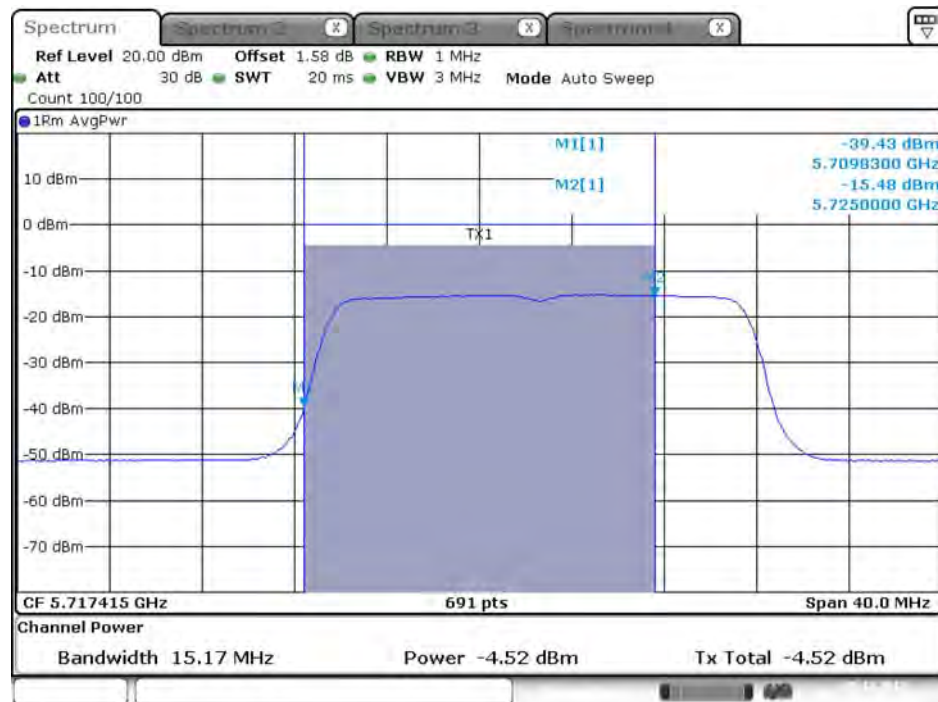
Date: 5 DEC. 2017 22:13:04

Conducted Output Power Plot on Configuration QPSK, 20M / Port 2 / 5250 MHz (UNII 2A)



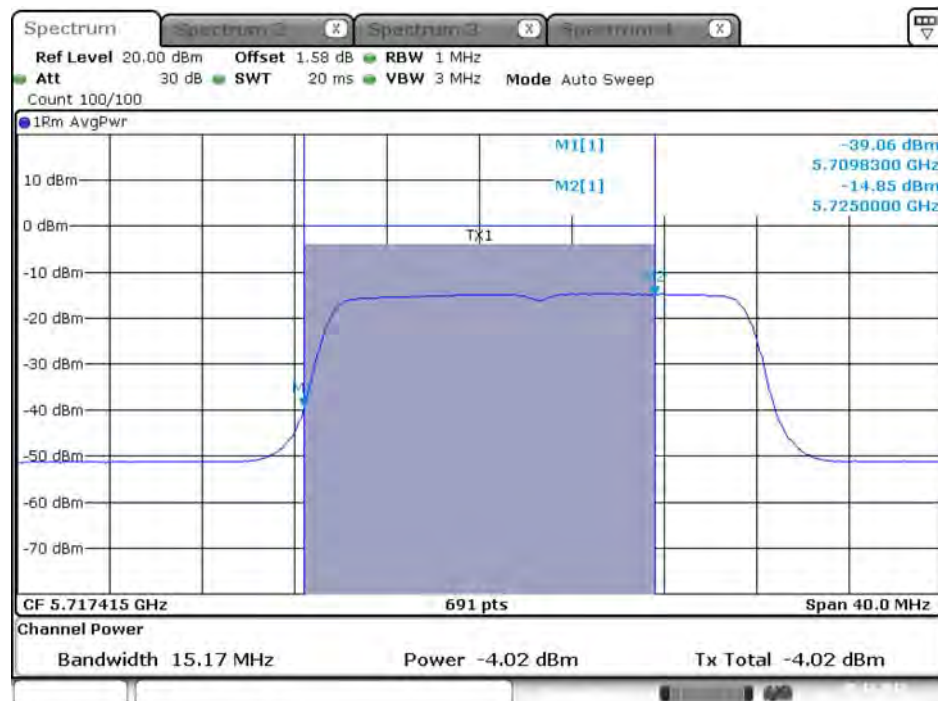
Date: 5 DEC. 2017 22:15:48

Conducted Output Power Plot on Configuration QPSK, 20M / Port 1 / 5720 MHz (UNII 2C)



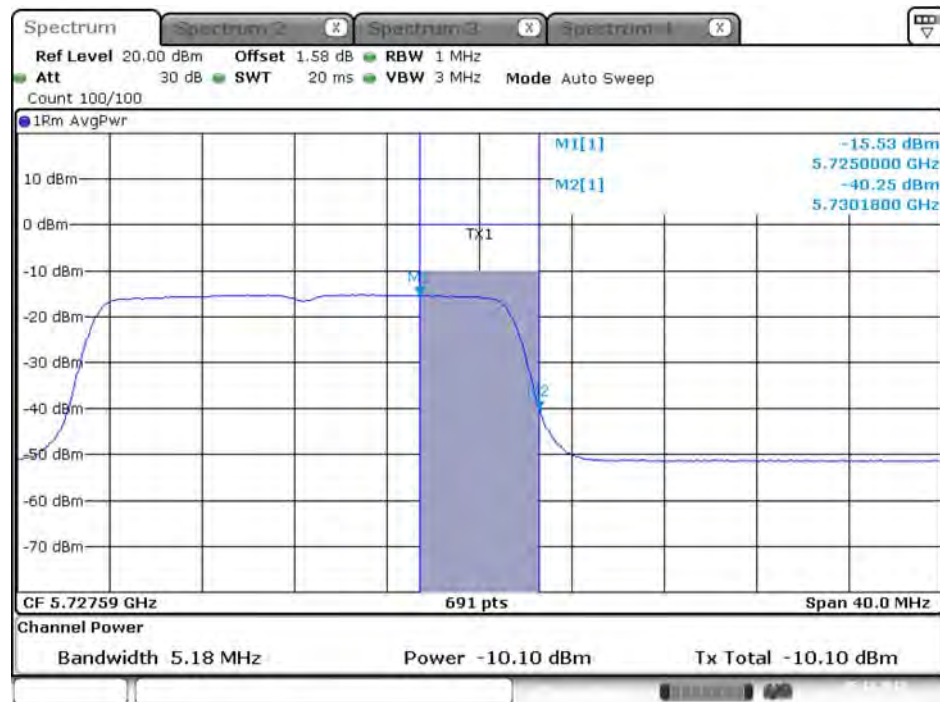
Date: 5 DEC. 2017 22:09:48

Conducted Output Power Plot on Configuration QPSK, 20M / Port 2 / 5720 MHz (UNII 2C)



Date: 5 DEC. 2017 22:05:52

Conducted Output Power Plot on Configuration QPSK, 20M / Port 1 / 5720 MHz (UNII 3)



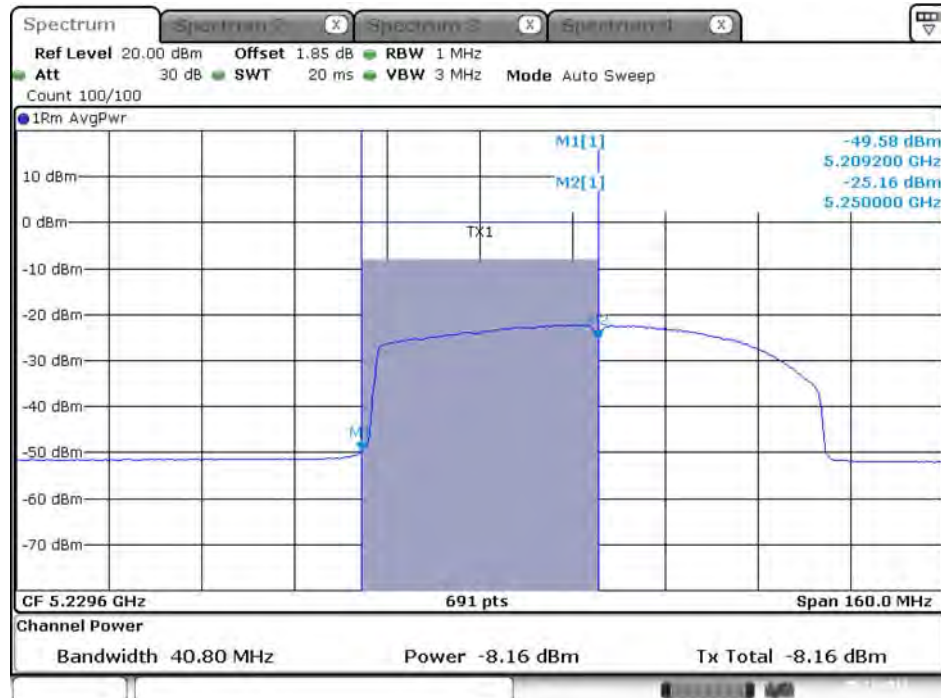
Date: 5 DEC. 2017 22:08:48

Conducted Output Power Plot on Configuration QPSK, 20M / Port 2 / 5720 MHz (UNII 3)



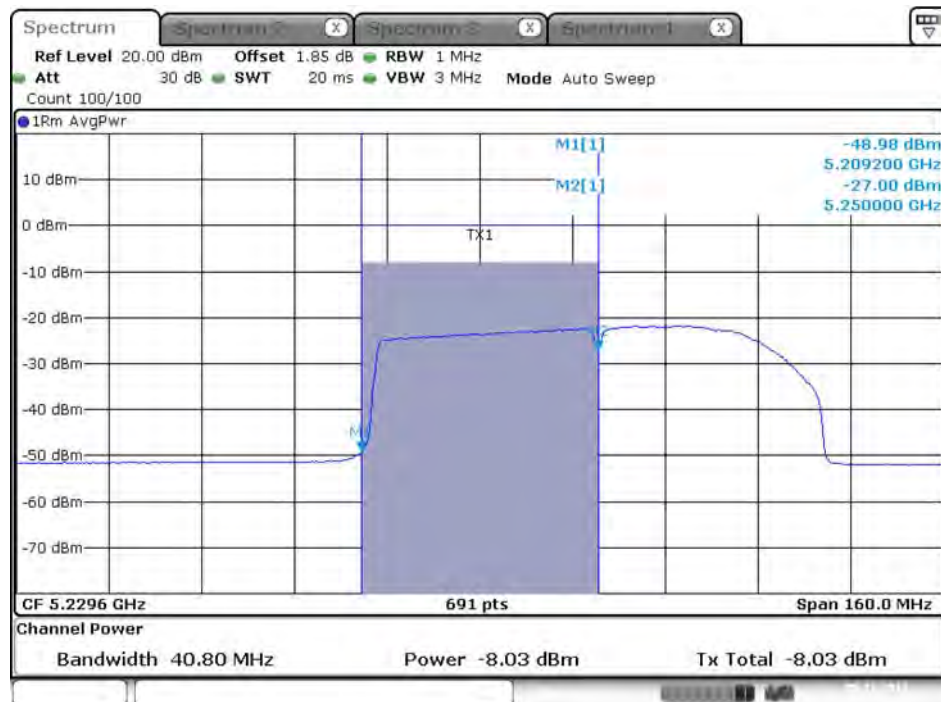
Date: 5 DEC. 2017 22:04:23

Conducted Output Power Plot on Configuration QPSK, 80M / Port 1 / 5250 MHz (UNII 1)



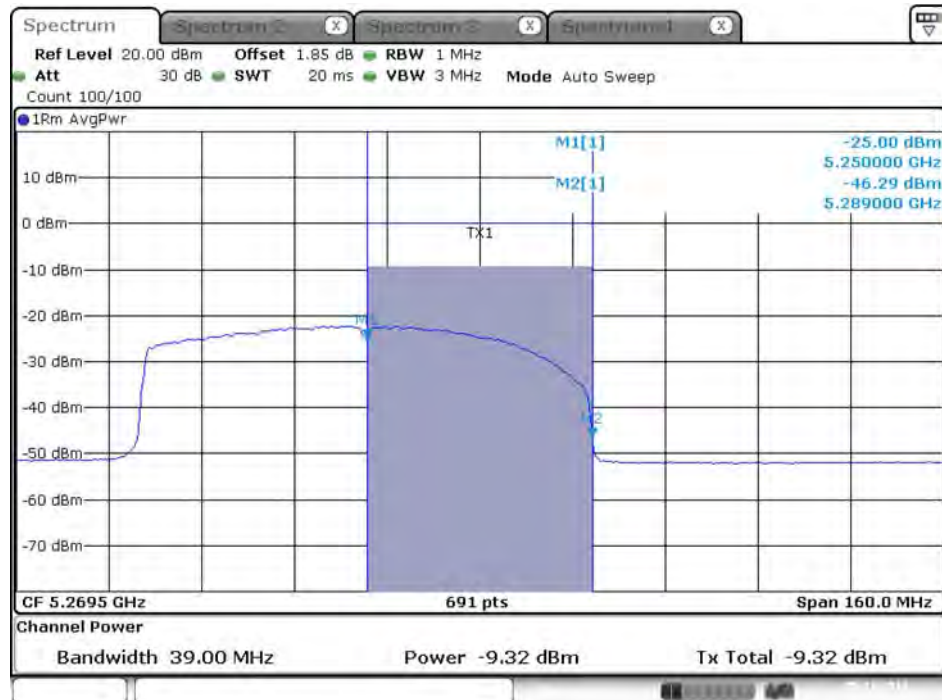
Date: 5 DEC.2017 21:28:38

Conducted Output Power Plot on Configuration QPSK, 80M / Port 2 / 5250 MHz (UNII 1)



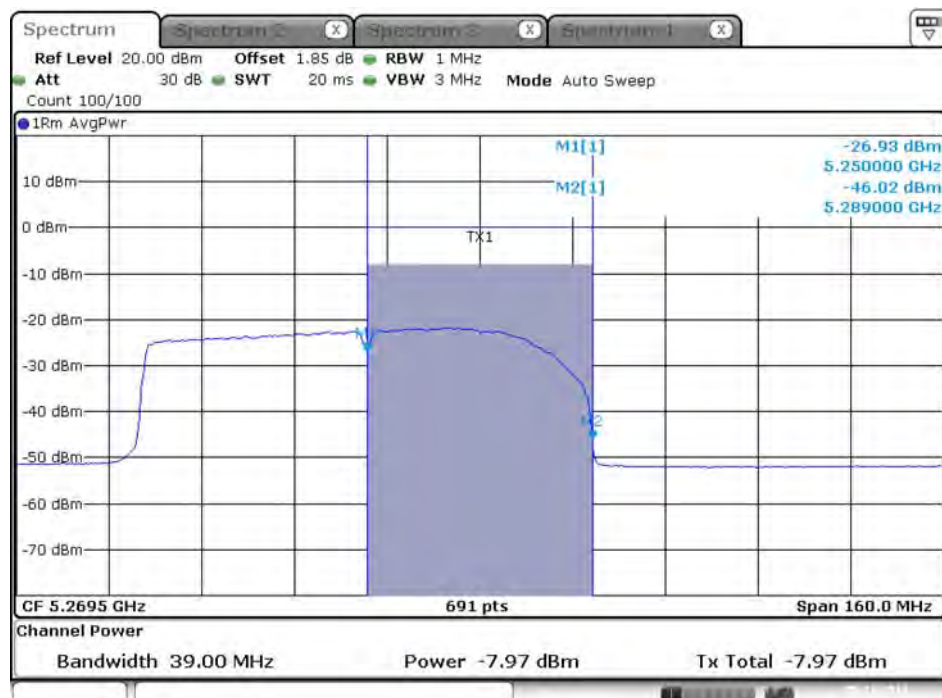
Date: 5 DEC.2017 21:22:22

Conducted Output Power Plot on Configuration QPSK, 80M / Port 1 / 5250 MHz (UNII 2A)



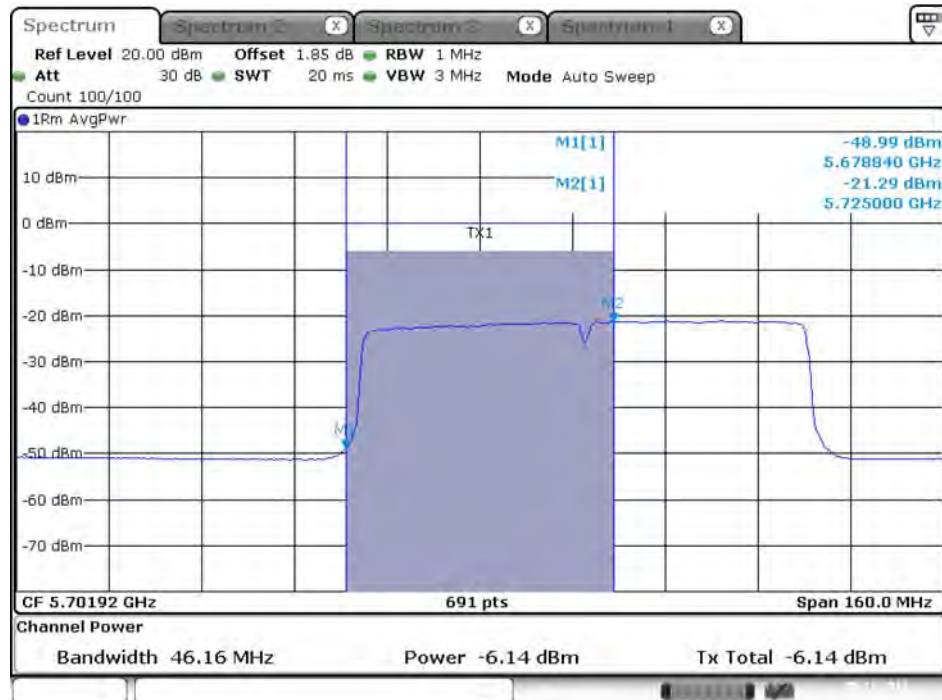
Date: 5 DEC.2017 21:27:57

Conducted Output Power Plot on Configuration QPSK, 80M / Port 2 / 5250 MHz (UNII 2A)



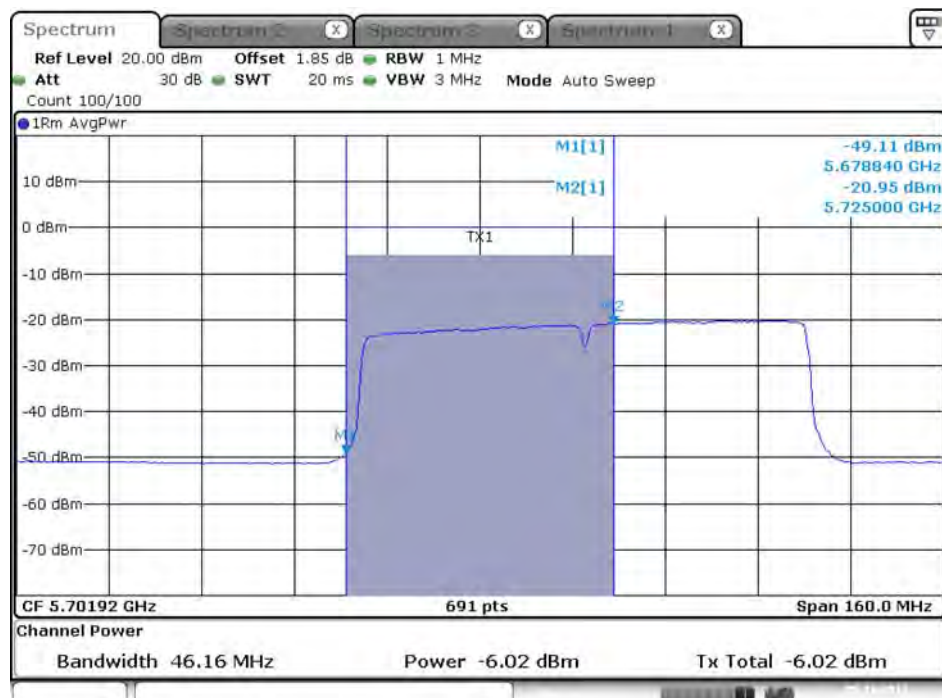
Date: 5 DEC.2017 21:17:25

Conducted Output Power Plot on Configuration QPSK, 80M / Port 1 / 5720 MHz (UNII 2C)



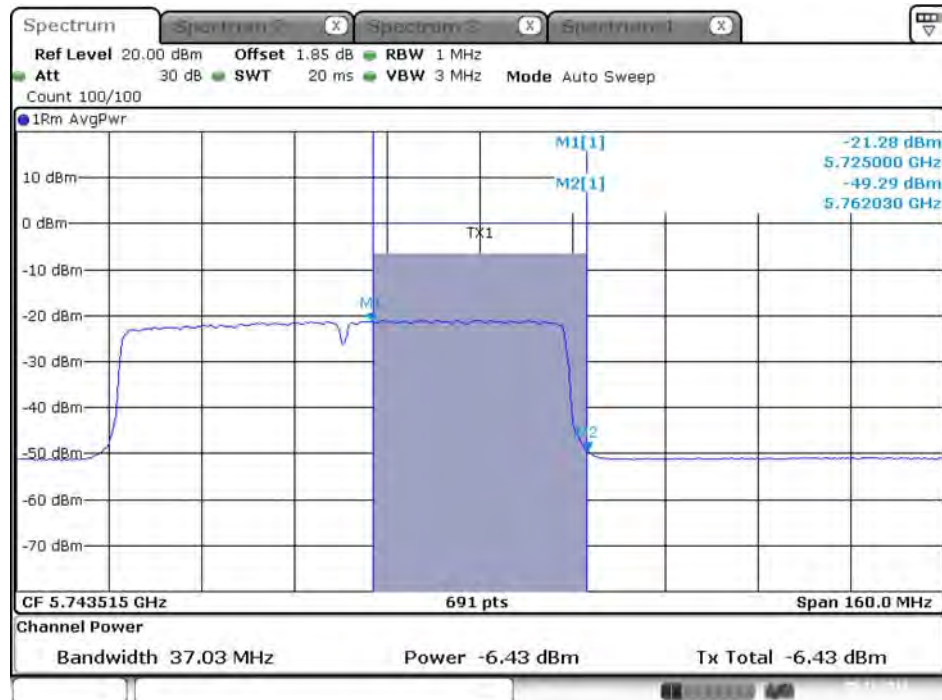
Date: 5 DEC.2017 21:36:13

Conducted Output Power Plot on Configuration QPSK, 80M / Port 2 / 5720 MHz (UNII 2C)



Date: 5 DEC.2017 21:40:04

Conducted Output Power Plot on Configuration QPSK, 80M / Port 1 / 5720 MHz (UNII 3)



Date: 5 DEC.2017 21:35:37

Conducted Output Power Plot on Configuration QPSK, 80M / Port 2 / 5720 MHz (UNII 3)



Date: 5 DEC.2017 21:39:21

For Antenna 3:

Conducted Output Power Plot on Configuration QPSK, 20M / Port 1 / 5250 MHz (UNII 1)



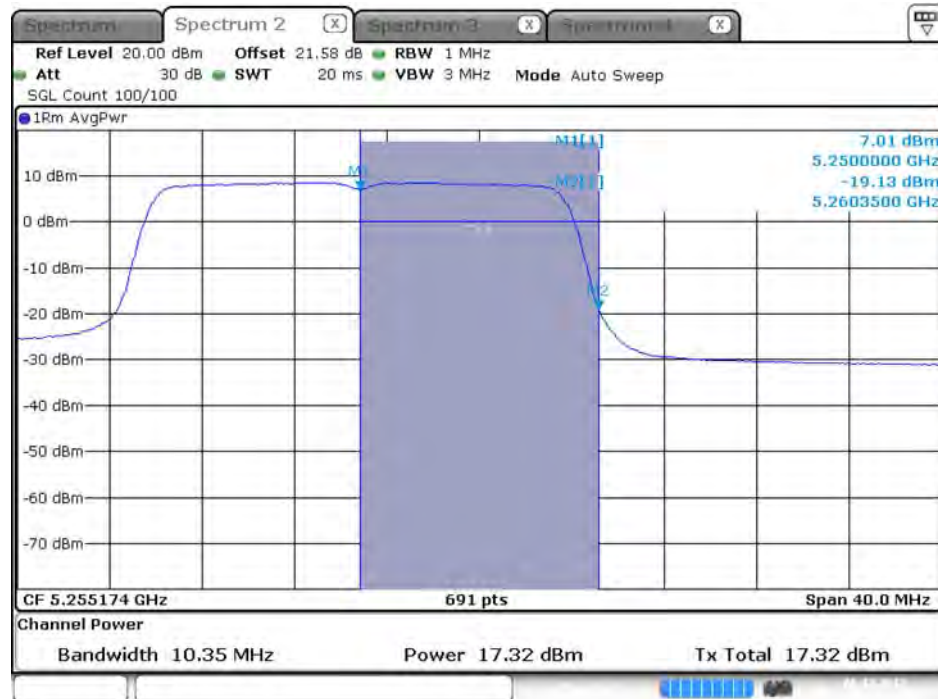
Date: 6 DEC.2017 10:35:12

Conducted Output Power Plot on Configuration QPSK, 20M / Port 2 / 5250 MHz (UNII 1)



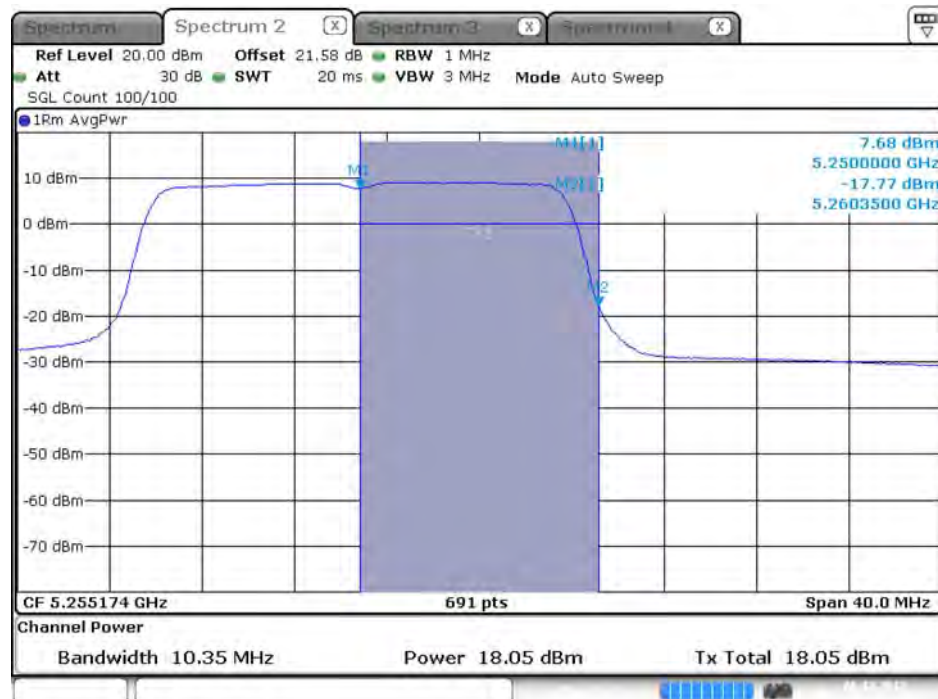
Date: 6 DEC.2017 10:36:38

Conducted Output Power Plot on Configuration QPSK, 20M / Port 1 / 5250 MHz (UNII 2A)



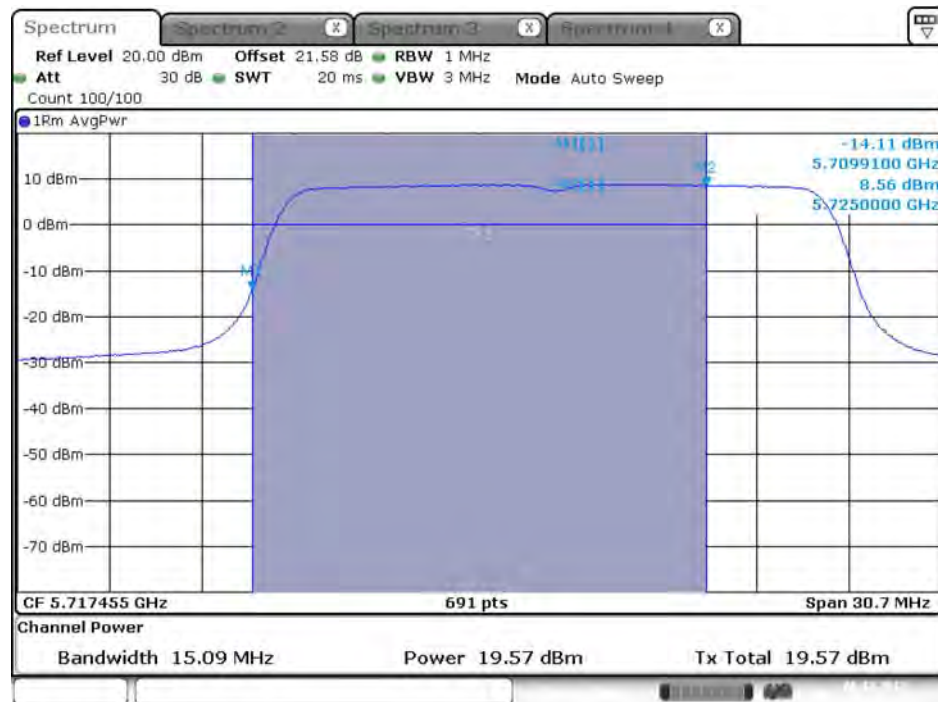
Date: 6, DEC. 2017 10:32:15

Conducted Output Power Plot on Configuration QPSK, 20M / Port 2 / 5250 MHz (UNII 2A)



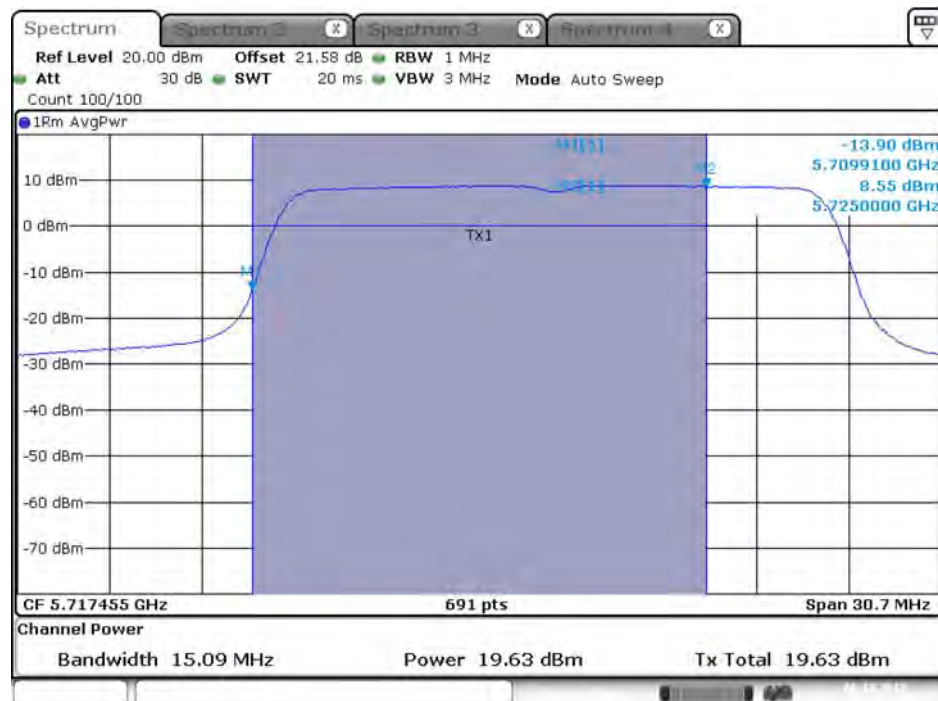
Date: 6, DEC. 2017 10:37:14

Conducted Output Power Plot on Configuration QPSK, 20M / Port 1 / 5720 MHz (UNII 2C)



Date: 6 DEC.2017 09:53:30

Conducted Output Power Plot on Configuration QPSK, 20M / Port 2 / 5720 MHz (UNII 2C)



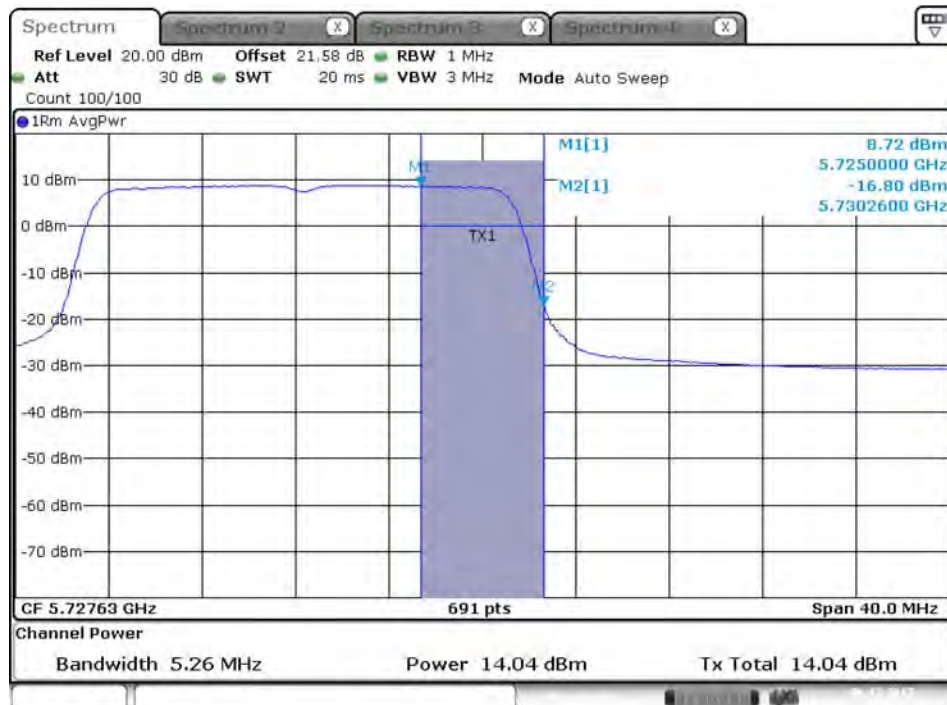
Date: 6 DEC.2017 09:55:09

Conducted Output Power Plot on Configuration QPSK, 20M / Port 1 / 5720 MHz (UNII 3)



Date: 6 DEC. 2017 09:53:34

Conducted Output Power Plot on Configuration QPSK, 20M / Port 2 / 5720 MHz (UNII 3)



Date: 6 DEC. 2017 09:55:13

4.4. Power Spectral Density Measurement

4.4.1. Limit

The following table is power spectral density limits and decrease power density limit rule refer to section 5.

Frequency Band		Limit
☒	5.15~5.25 GHz	
	Operating Mode	
☐	Outdoor access point	17 dBm/MHz
☐	Indoor access point	17 dBm/MHz
☒	Fixed point-to-point access points	17 dBm/MHz
☐	Mobile and portable client devices	11 dBm/MHz
☒	5.25-5.35 GHz	11 dBm/MHz
☒	5.470-5.725 GHz	11 dBm/MHz
☒	5.725~5.85 GHz	30 dBm/500kHz

4.4.2. Measuring Instruments and Setting

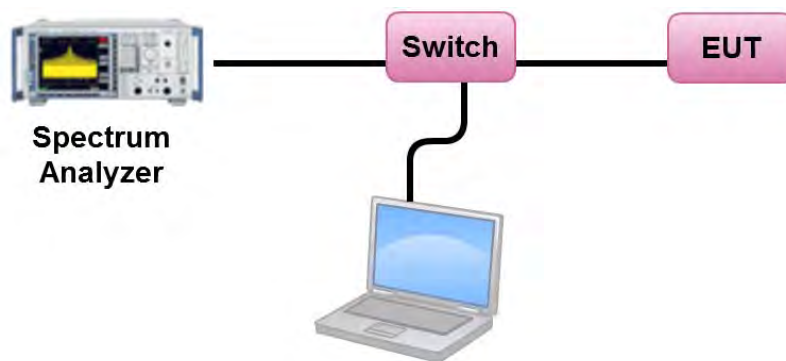
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1000 kHz
VBW	3000 kHz
Detector	RMS
Trace	AVERAGE
Sweep Time	Auto
Trace Average	100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.	

4.4.3. Test Procedures

1. The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.
2. Test was performed in accordance with KDB789033 D02 v02r01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD).
3. Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements and sum the spectra across the outputs.
4. For 5.725~5.85 GHz, the measured result of PSD level must add $10\log(500\text{kHz}/\text{RBW})$ and the final result should $\leq 30 \text{ dBm}$.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of Power Spectral Density

Temperature	22°C	Humidity	54%
Test Engineer	Ron Huang / Lucke Hsieh / Brian Sun / Serway Li		

For Antenna 2:

Configuration QPSK, 20M / Port 1 + Port 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
1	5260 MHz	-8.20	-8.00	Complies
10	5300 MHz	-14.09	-8.00	Complies
14	5320 MHz	-14.77	-8.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
1	5500 MHz	-16.68	-8.00	Complies
17	5580 MHz	-15.41	-8.00	Complies
31	5650 MHz	-15.52	-8.00	Complies

Configuration QPSK, 80M / Port 1 + Port 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
2	5290 MHz	-16.85	-5.00	Complies
3	5300 MHz	-15.99	-5.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
1	5520 MHz	-21.77	-5.00	Complies
19	5610 MHz	-19.55	-5.00	Complies
27	5650 MHz	-19.62	-5.00	

For Antenna 3:

Configuration QPSK, 20M / Port 1 + Port 2

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
1	5260 MHz	10.29	11.00	Complies
10	5300 MHz	10.37	11.00	Complies
14	5320 MHz	10.36	11.00	Complies

Channel	Frequency	Power Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
1	5500 MHz	10.37	11.00	Complies
17	5580 MHz	10.16	11.00	Complies
31	5650 MHz	10.23	11.00	Complies

For Antenna 2:

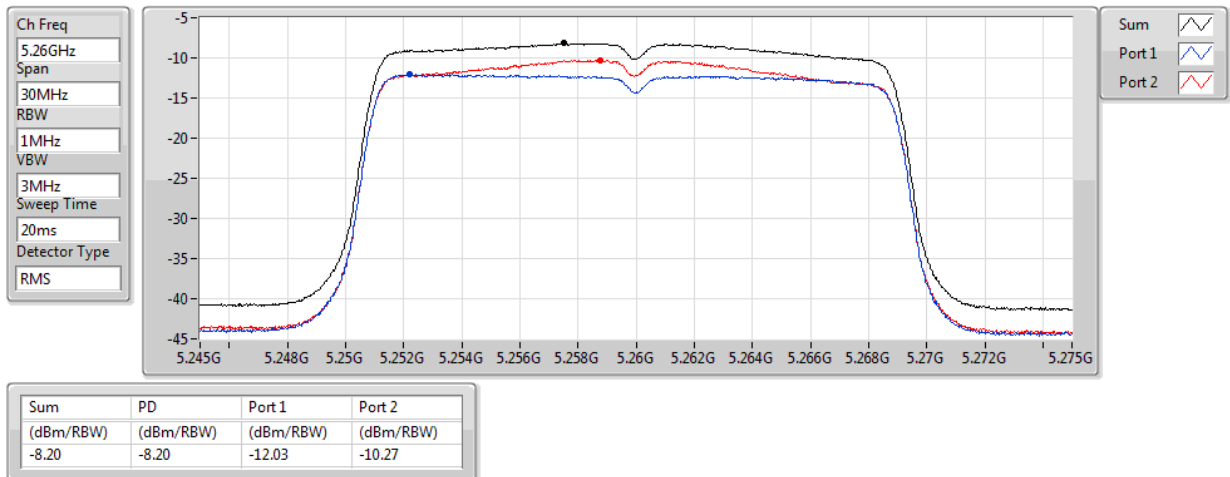
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5260 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

05/12/2017



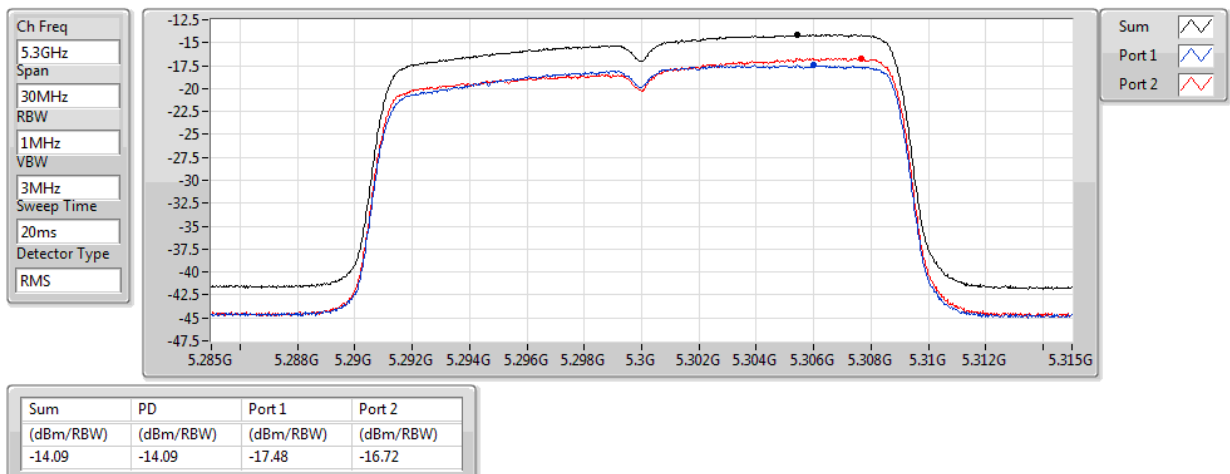
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5300 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

05/12/2017



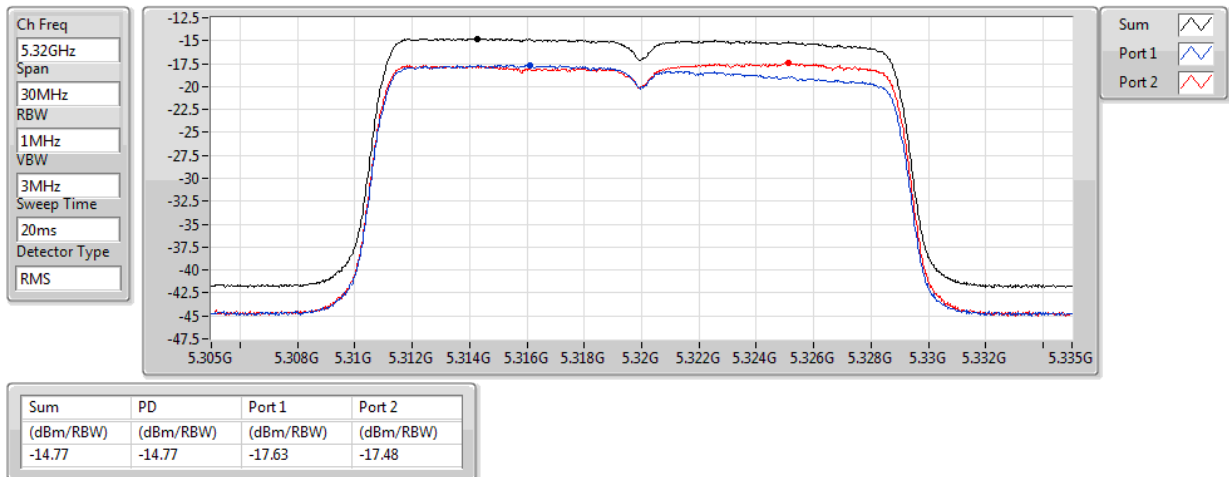
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5320 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

05/12/2017



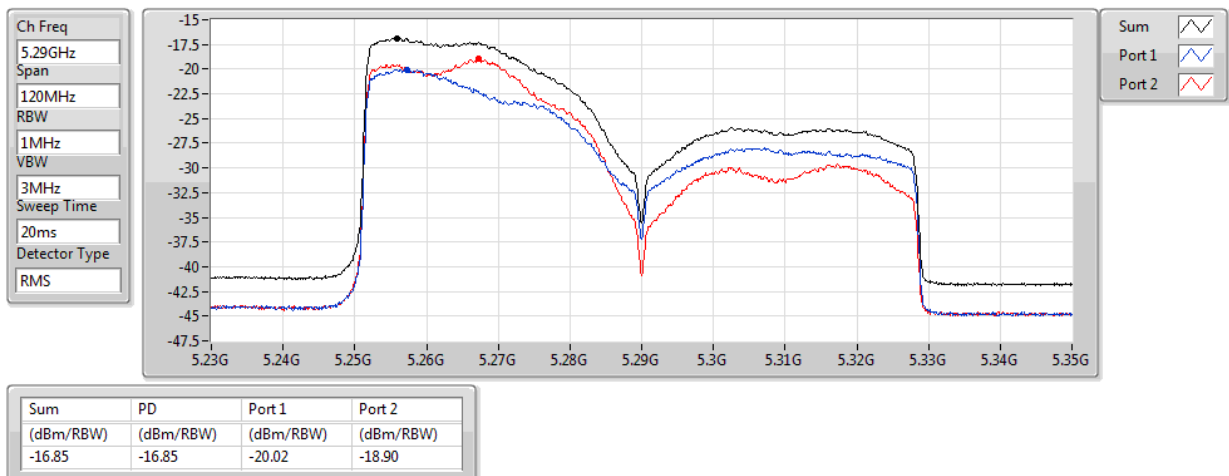
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5290 MHz

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5290MHz

05/12/2017



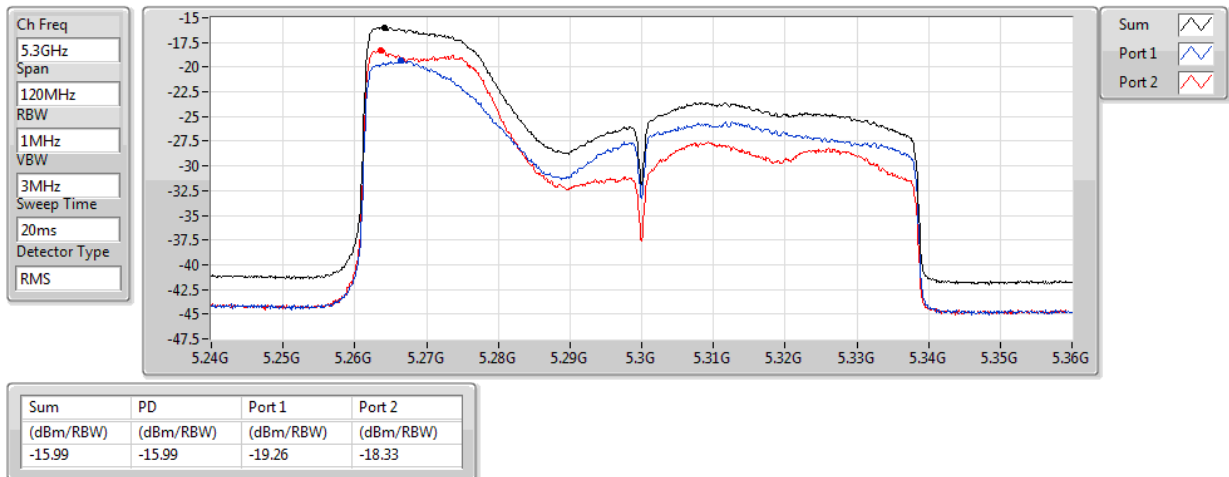
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5300 MHz

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5300MHz Straddle 5.25-5.35GHz

05/12/2017



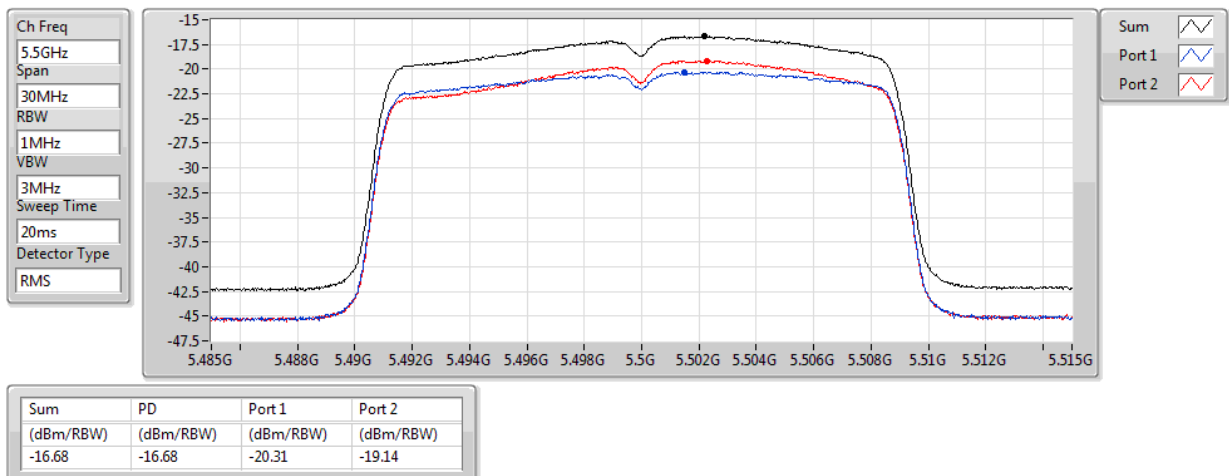
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5500 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

05/12/2017



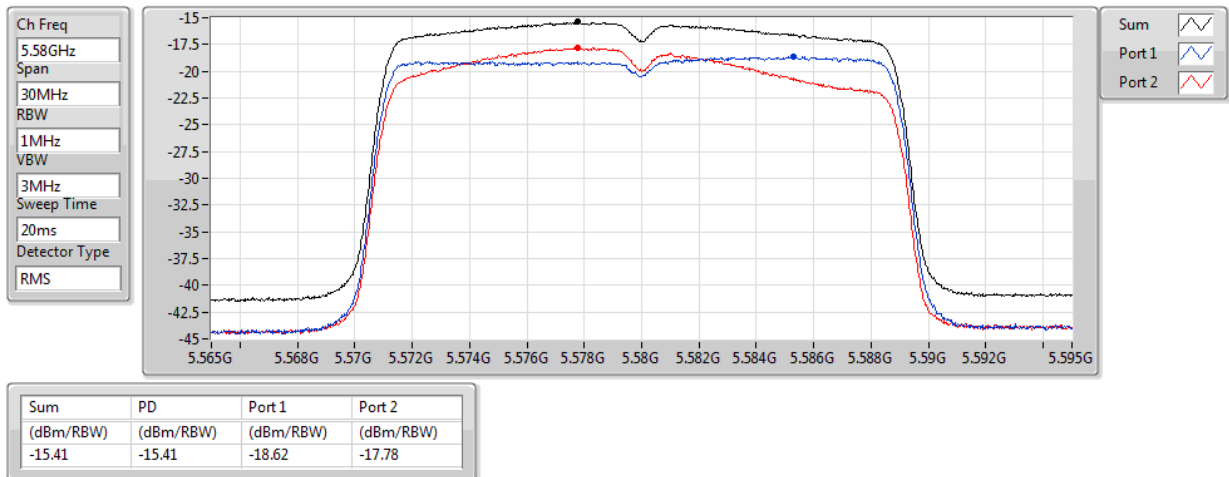
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5580 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

05/12/2017



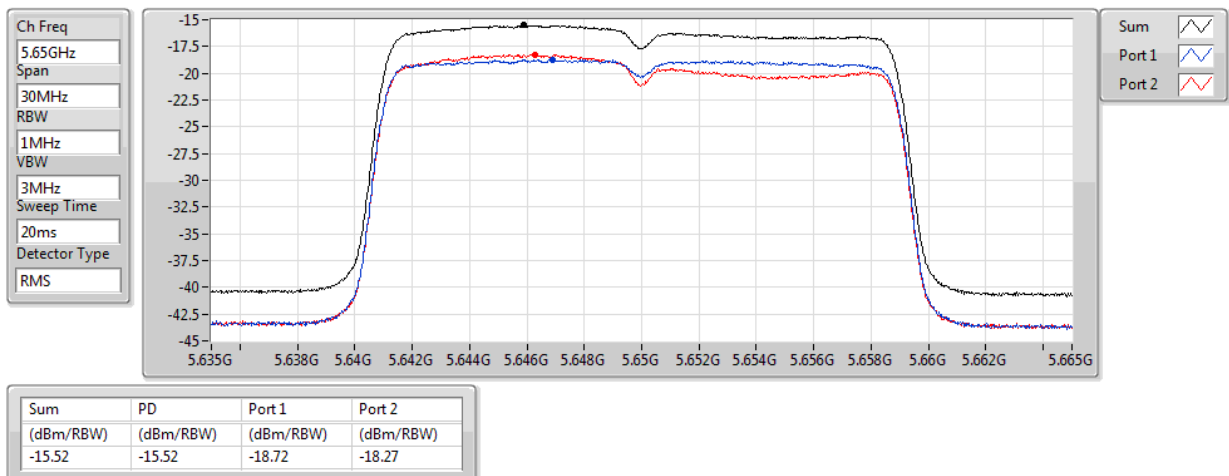
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5650 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5650MHz

05/12/2017



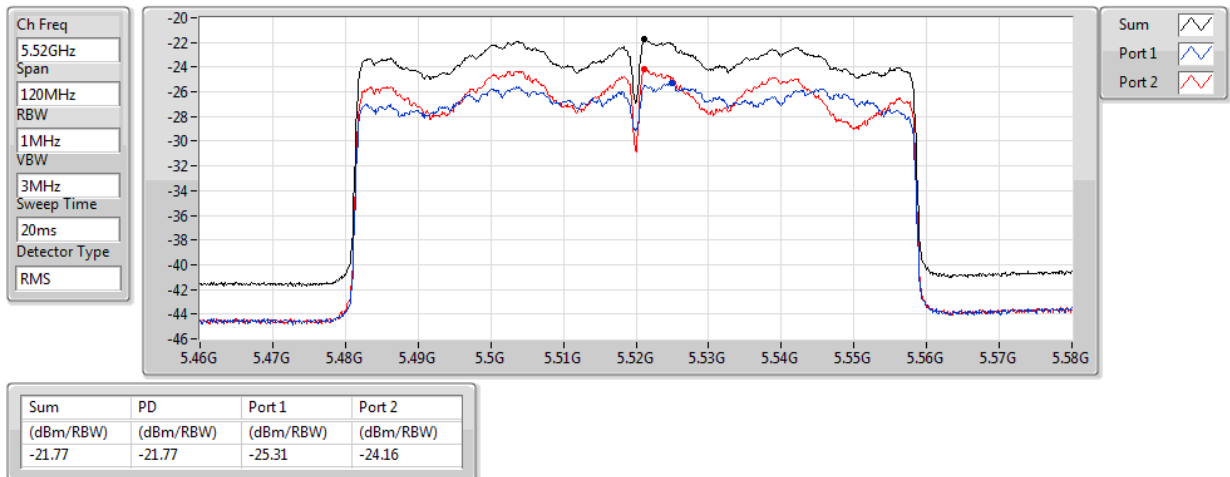
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5520 MHz

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5520MHz

05/12/2017



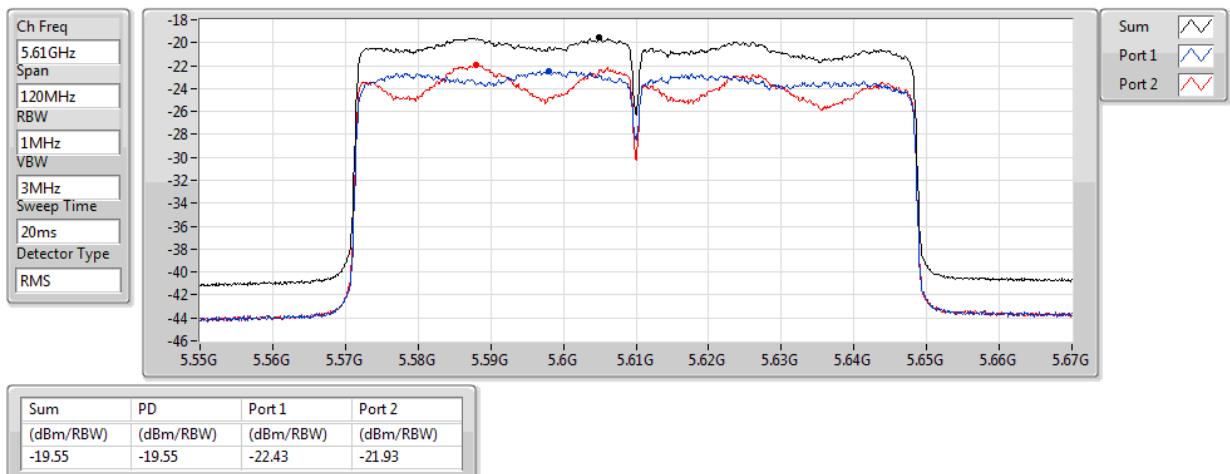
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5610 MHz

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5610MHz

05/12/2017



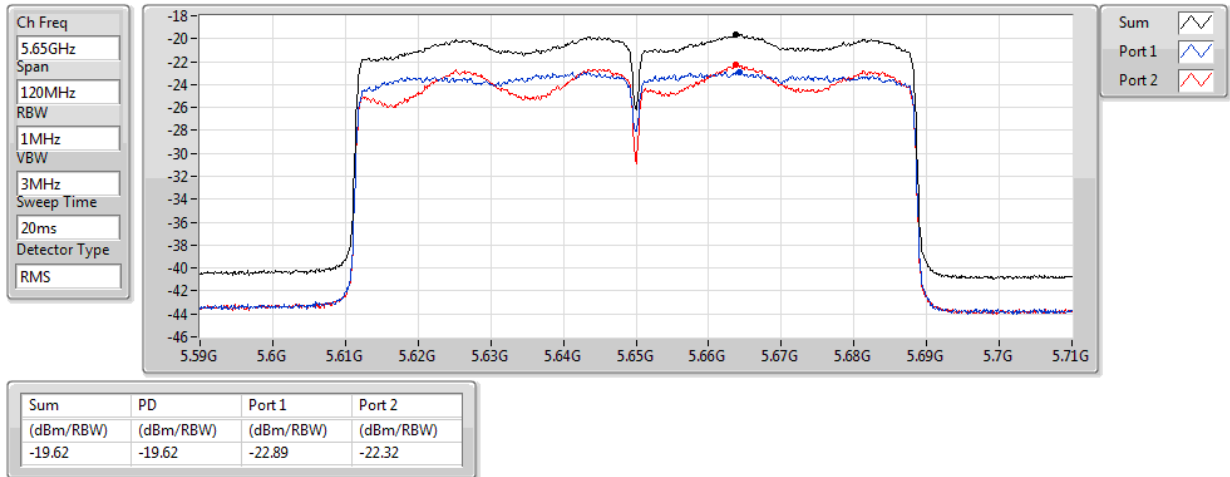
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5650 MHz

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5650MHz Straddle 5.47-5.725GHz

05/12/2017



For Antenna 3:

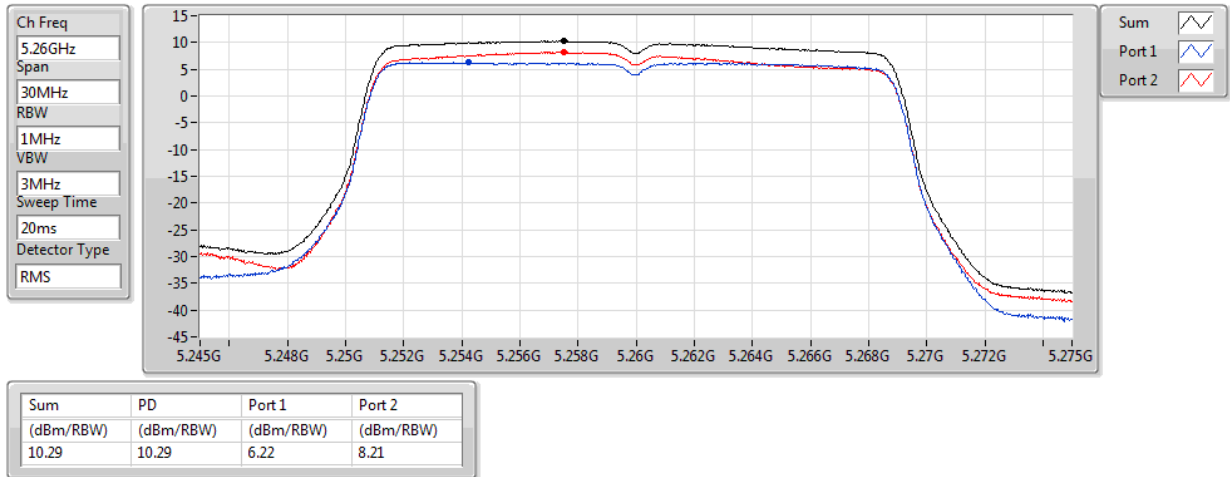
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5260 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5260MHz

05/12/2017



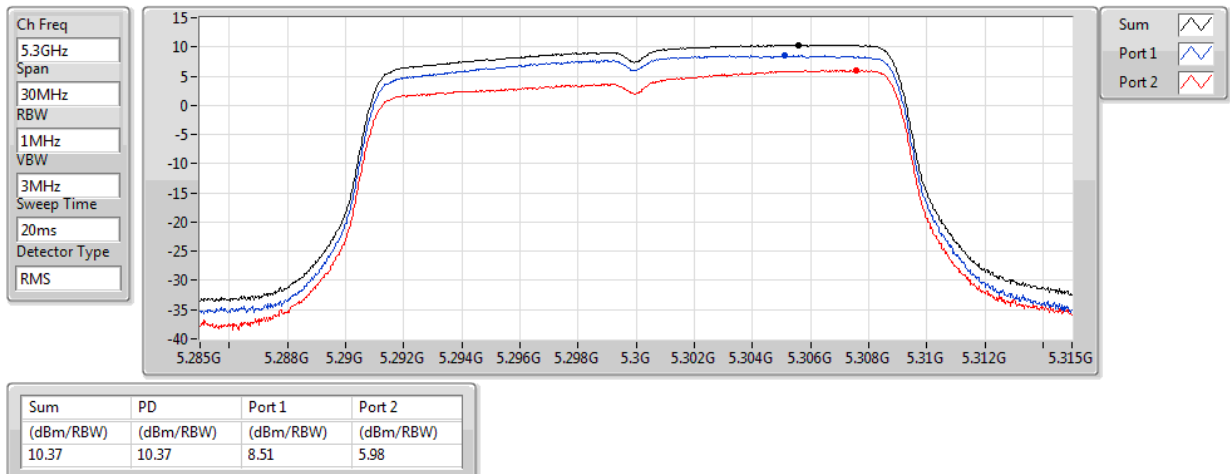
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5300 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5300MHz

05/12/2017



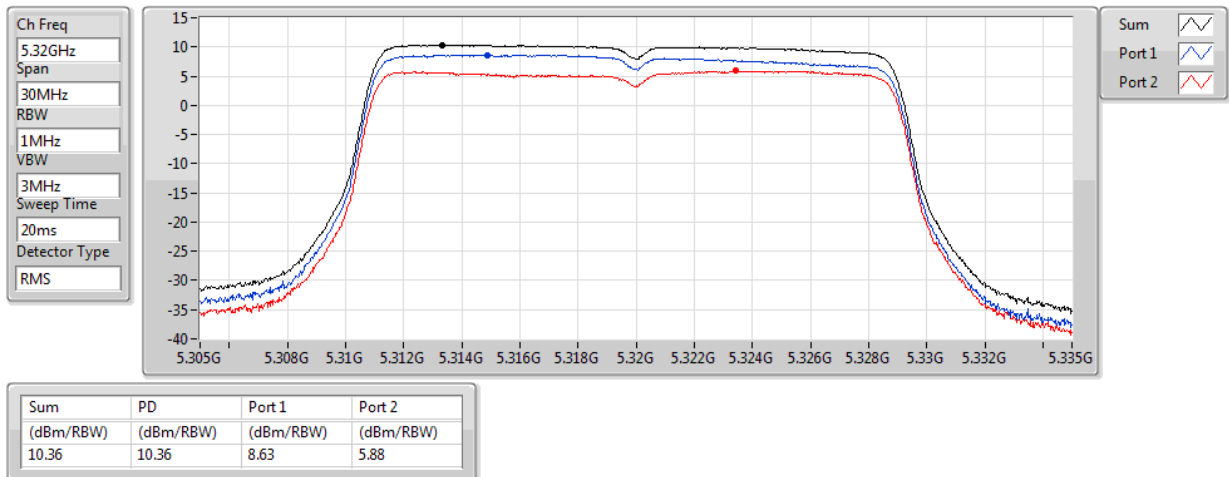
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5320 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5320MHz

05/12/2017



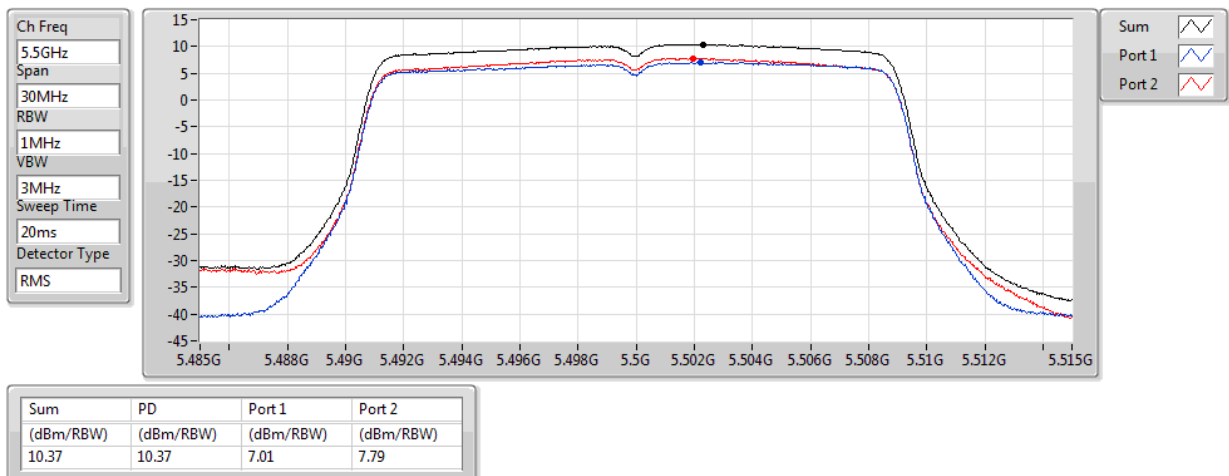
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5500 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5500MHz

05/12/2017



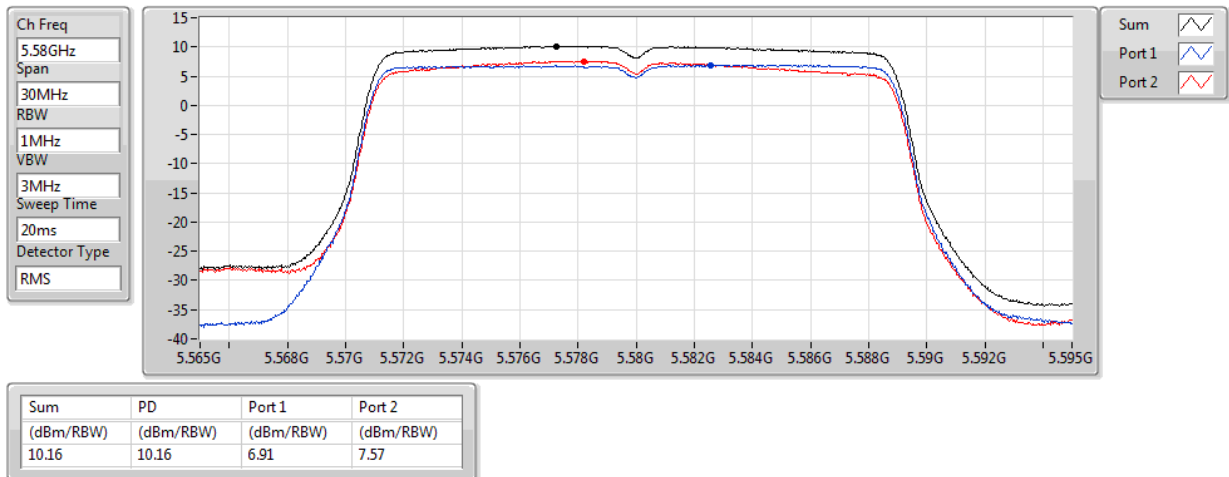
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5580 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5580MHz

05/12/2017



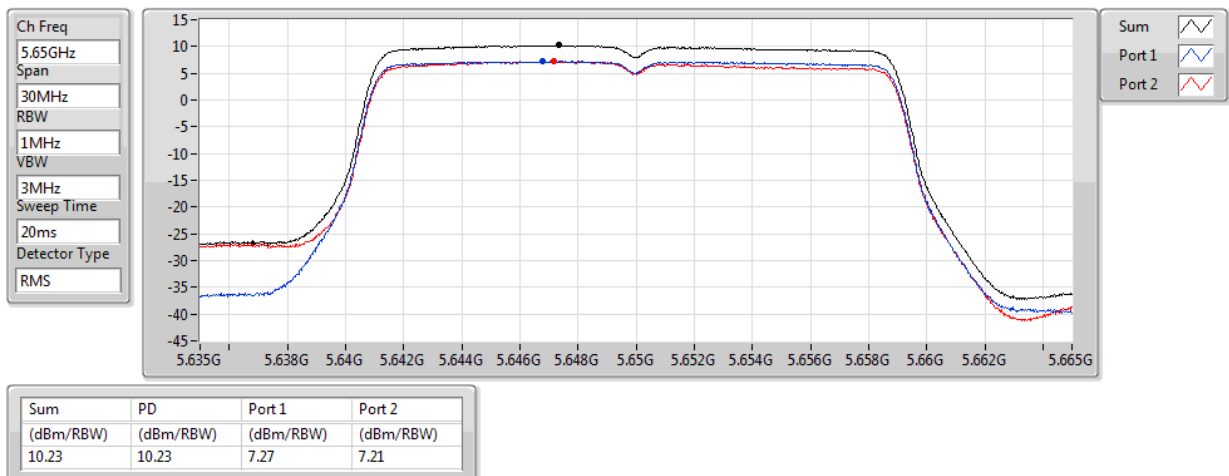
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5650 MHz

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5650MHz

05/12/2017



Straddle Channel

For Antenna 2

Configuration QPSK / Port 1 + Port 2

Mode	Frequency	Power Density (dBm/MHz)		Max. Limit (dBm/MHz)		Result
20M	5250MHz (UNII 1)	-9.23		-2.00		Complies
	5250MHz (UNII 2A)	-8.39		-8.00		Complies
	5720 MHz (UNII 2C)	-12.98		-8.00		Complies
	5720 MHz (UNII 3)	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
		-14.38	-3.01	-17.39	11.00	Complies
80M	5250MHz (UNII 1)	-20.61		-2.00		Complies
	5250MHz (UNII 2A)	-20.04		-8.00		Complies
	5720 MHz (UNII 2C)	-19.39		-8.00		Complies
	5720 MHz (UNII 3)	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
		-20.52	-3.01	-23.53	11.00	Complies

For Antenna 3

Configuration QPSK / Port 1 + Port 2

Mode	Frequency	Power Density (dBm/MHz)		Max. Limit (dBm/MHz)		Result
20M	5250MHz (UNII 1)	10.96		17.00		Complies
	5250MHz (UNII 2A)	10.36		11.00		Complies
	5720 MHz (UNII 2C)	10.40		11.00		Complies
	5720 MHz (UNII 3)	Power Density (dBm/MHz)	10log(500kHz/RBW) Factor (dB)	Power Density (dBm/500kHz)	Power Density Limit (dBm/500kHz)	Result
		8.94	-3.01	5.93	30.00	Complies

For Antenna 2:

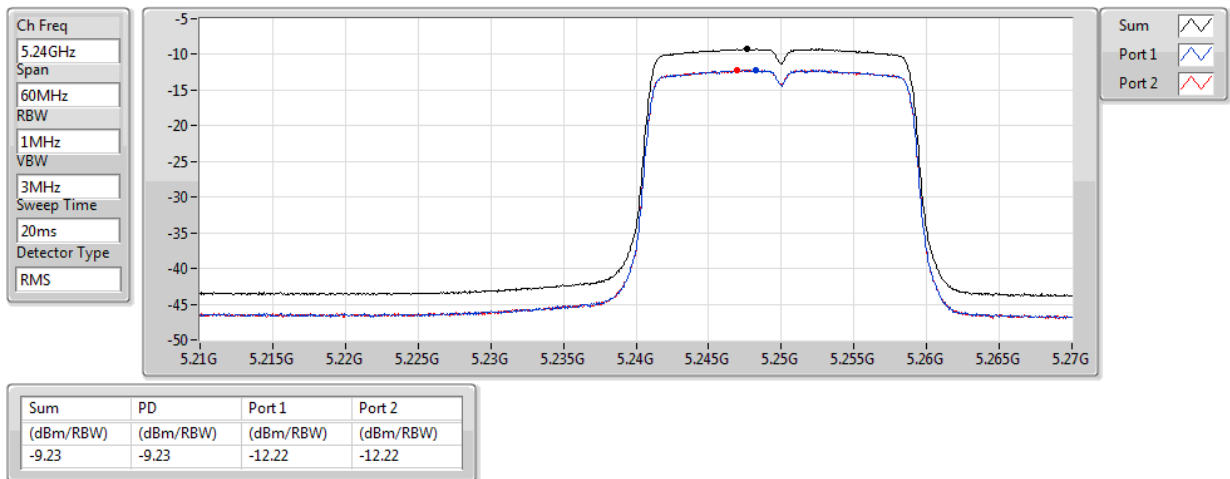
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5250 MHz (UNII 1)

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.15-5.25GHz

06/12/2017



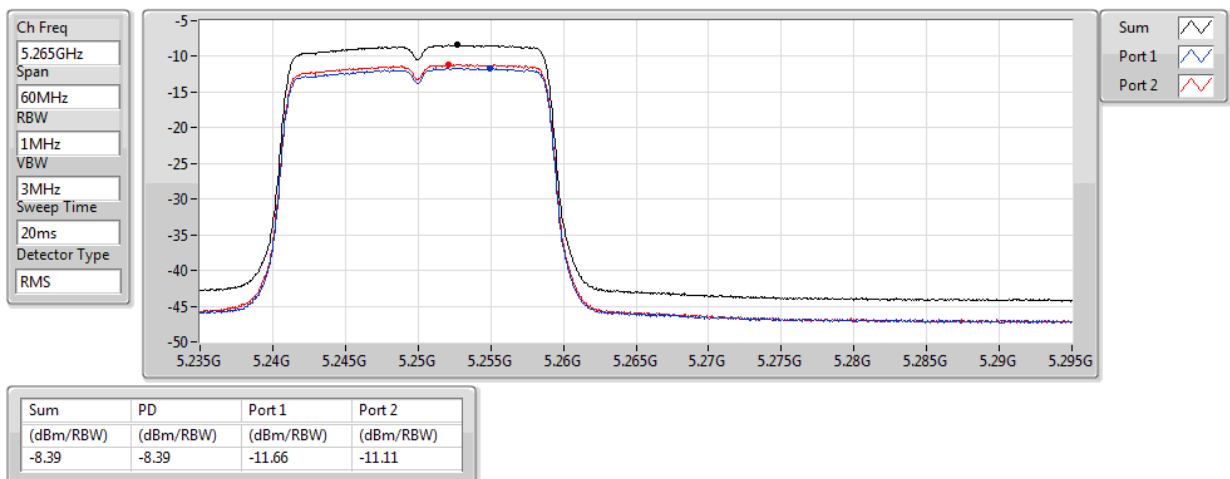
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5250 MHz (UNII 2A)

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.25-5.35GHz

06/12/2017



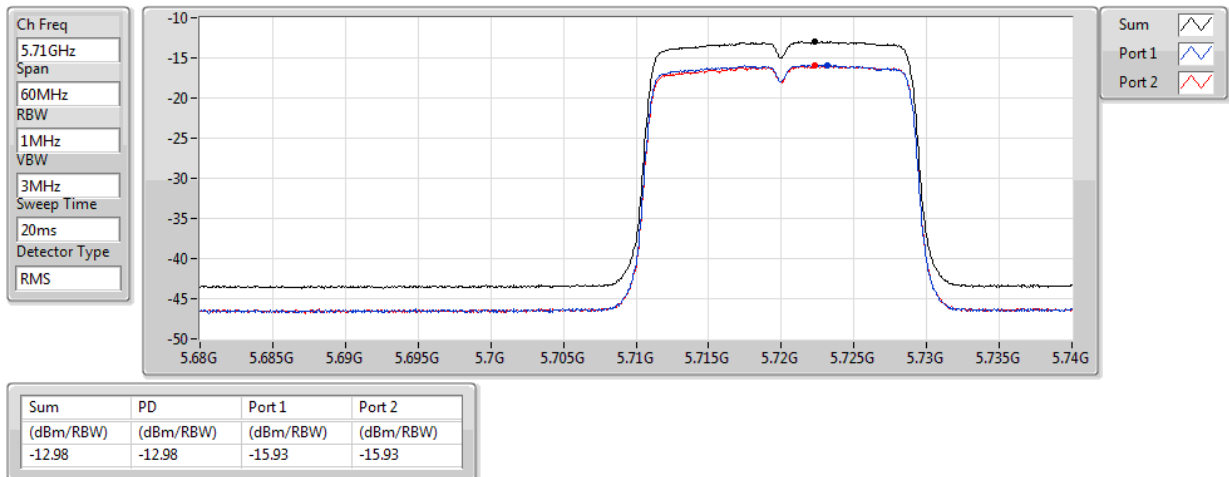
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5720 MHz (UNII 2C)

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

06/12/2017



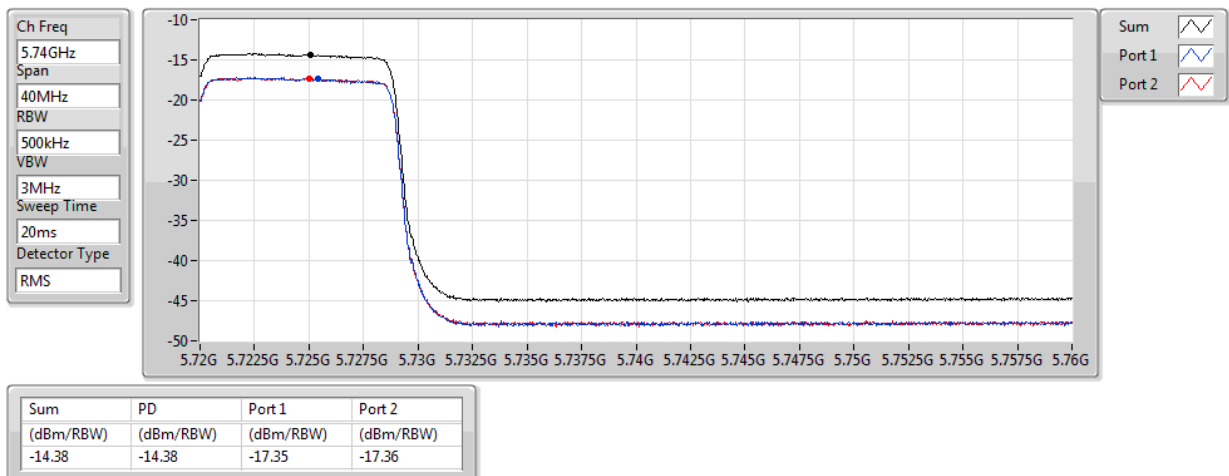
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5720 MHz (UNII 3)

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

06/12/2017



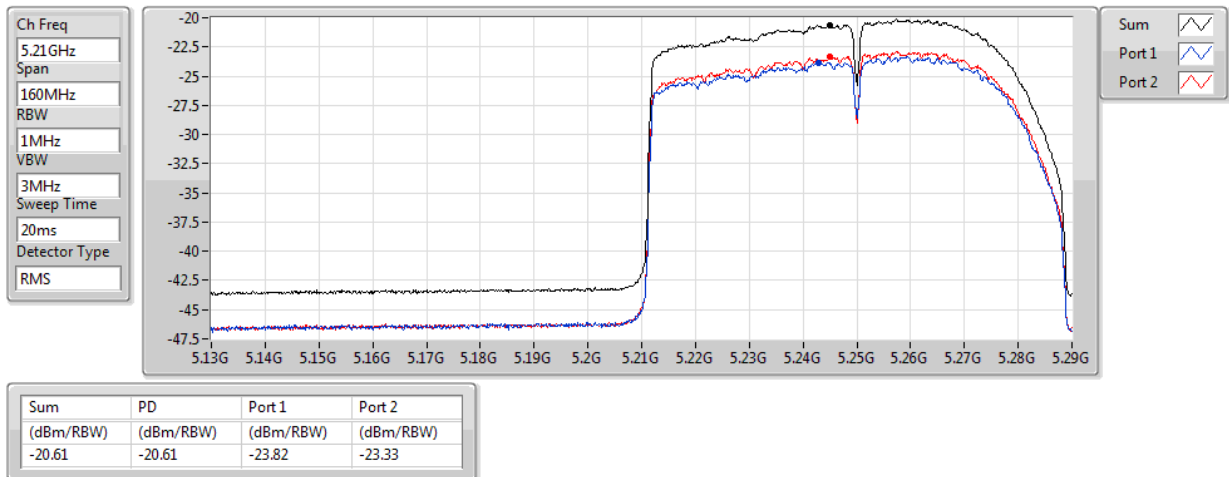
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5250 MHz (UNII 1)

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.15-5.25GHz

06/12/2017



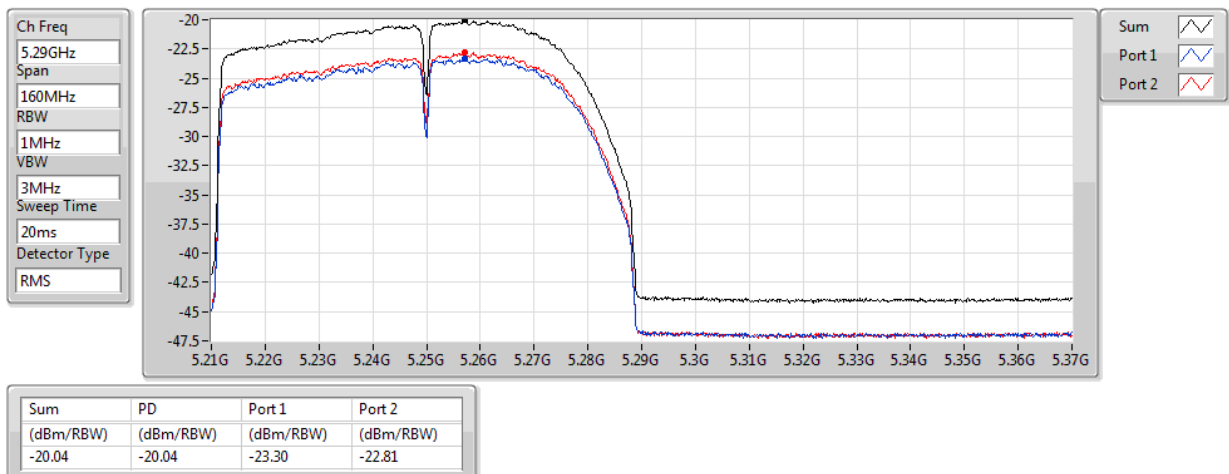
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5250 MHz (UNII 2A)

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.25-5.35GHz

06/12/2017



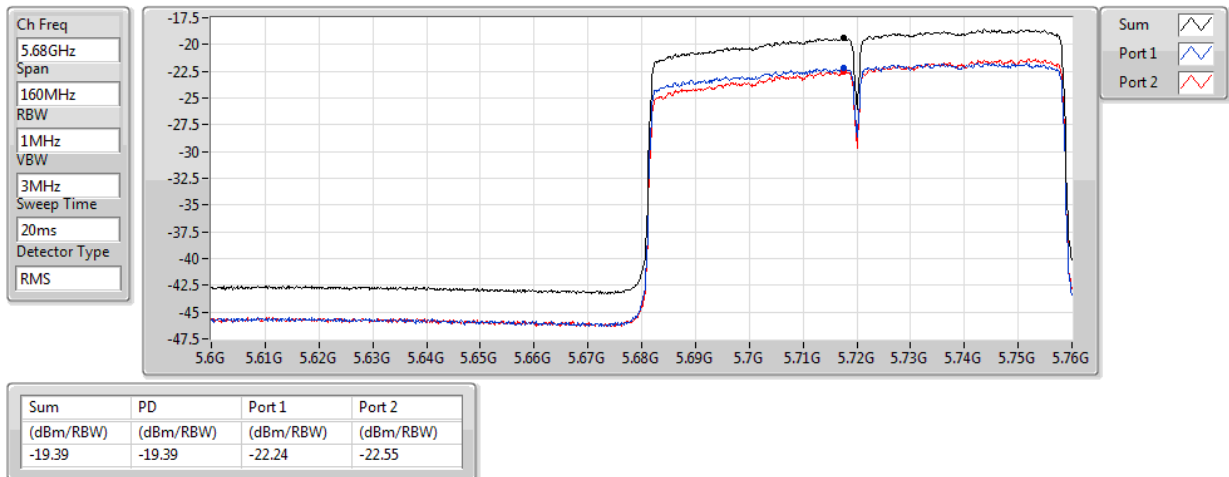
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5720 MHz (UNII 2C)

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

06/12/2017



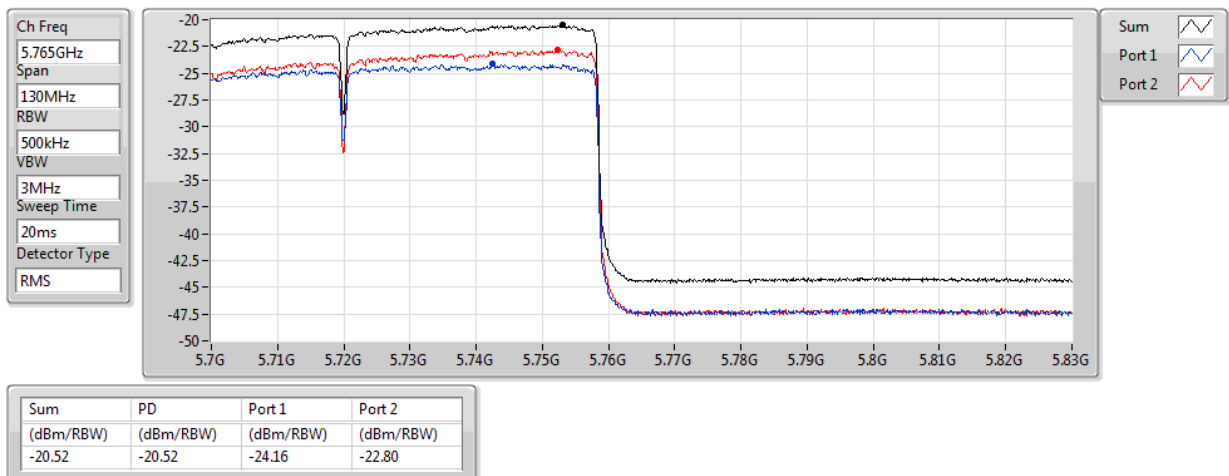
Power Density Plot on Configuration QPSK, 80M / Port 1 + Port 2 / 5720 MHz (UNII 3)

802.11ac VHT80_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

06/12/2017



For Antenna 3:

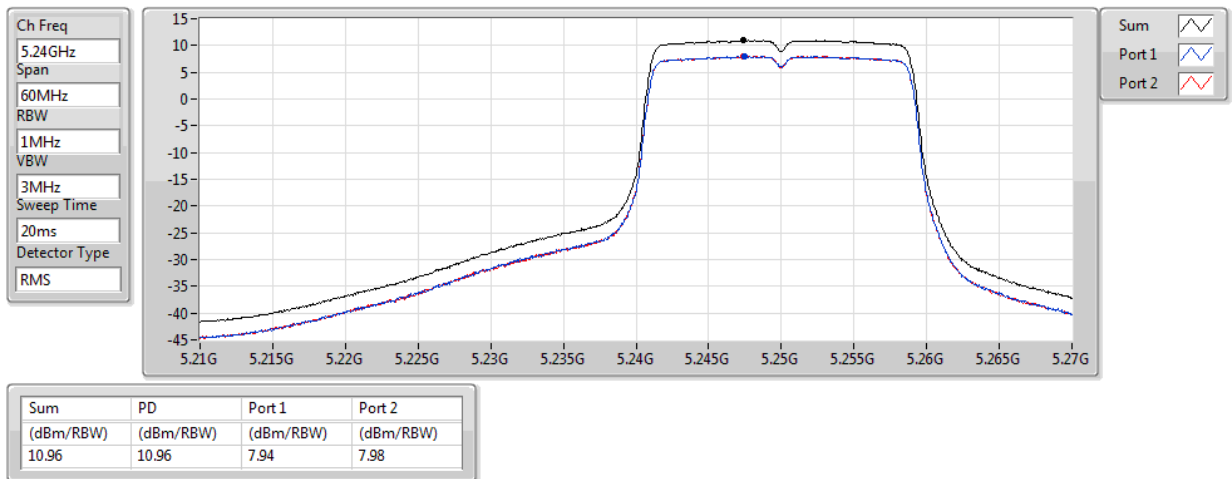
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5250 MHz (UNII 1)

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.15-5.25GHz

06/12/2017



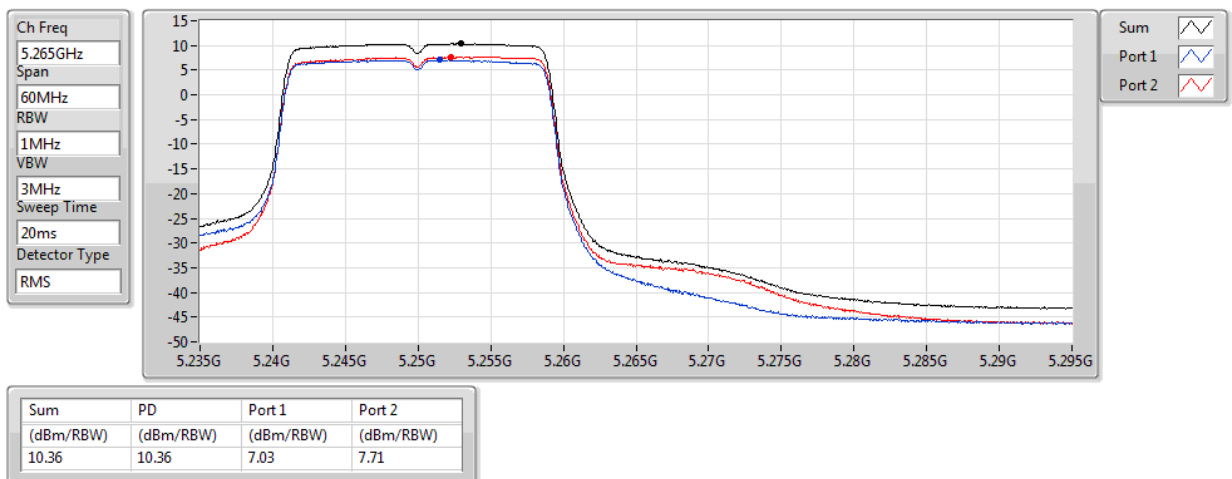
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5250 MHz (UNII 2A)

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5250MHz Straddle 5.25-5.35GHz

06/12/2017



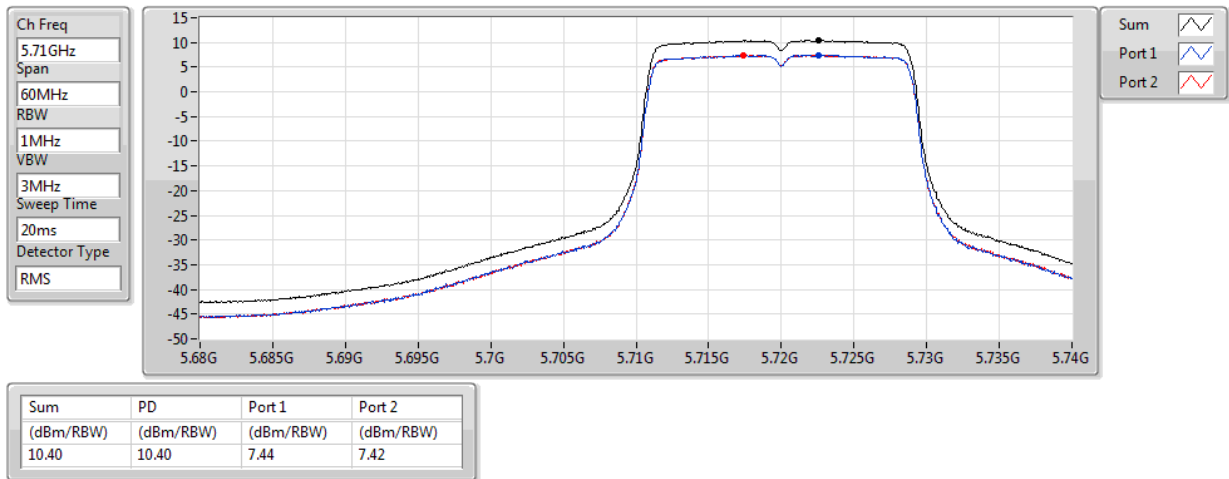
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5720 MHz (UNII 2C)

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

06/12/2017



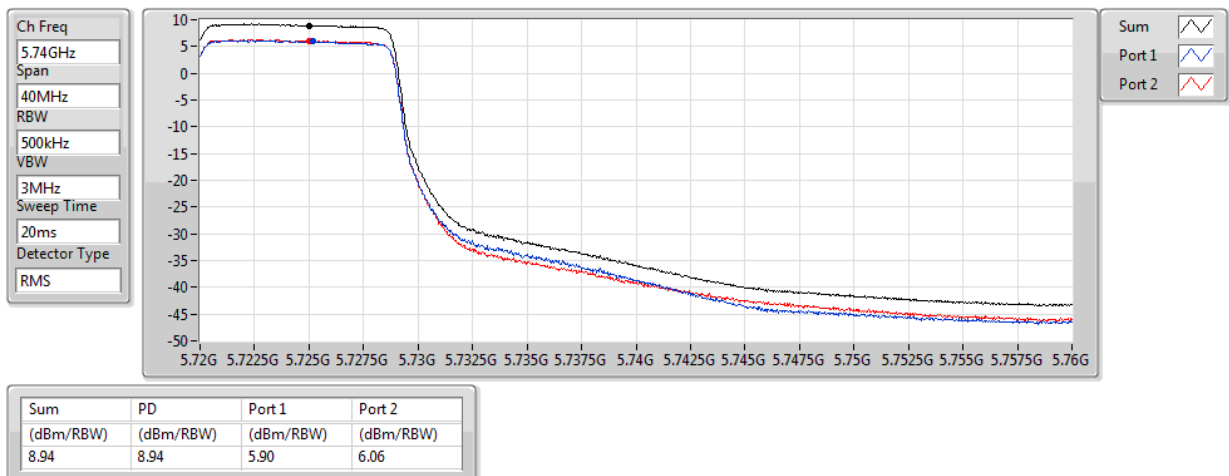
Power Density Plot on Configuration QPSK, 20M / Port 1 + Port 2 / 5720 MHz (UNII 3)

802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.725-5.85GHz

06/12/2017



4.5. Radiated Emissions Measurement

4.5.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW / VBW (Emission in restricted band)	1 MHz / 3MHz for Peak, 1 MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1 MHz / 3MHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

4.5.3. Test Procedures

For Radiated measurement:

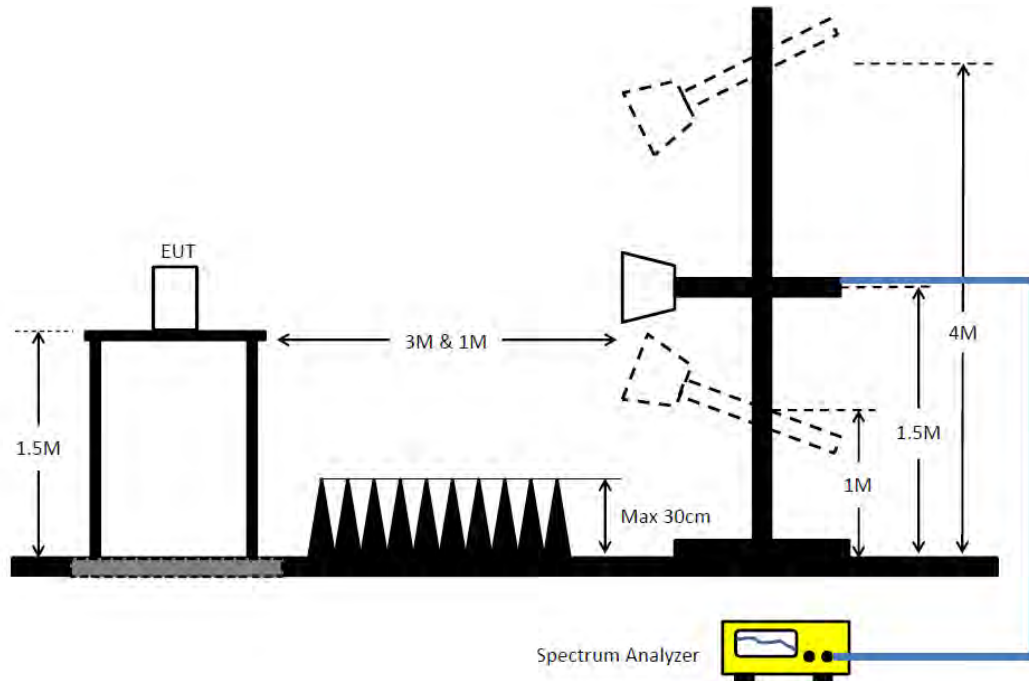
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

For Conducted measurement:

The EUT was perform conducted measurement and measurement level added antenna gain shall be comply to section 4.4.3.

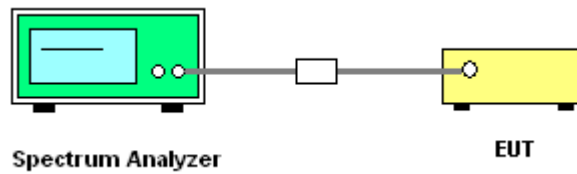
4.5.4. Test Setup Layout

For Radiated measurement



For Conducted measurement

For Above 1GHz only:



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Results for Radiated Emissions (1GHz~40GHz)

For Conducted test:

For Antenna 2:

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-83.98	-84.64	-56.29	-41.25	15.04
5300	-84.36	-84.65	-56.49	-41.25	15.24
5320	-84.75	-84.71	-56.72	-41.25	15.47
5250	-84.70	-84.55	-56.61	-41.25	15.36

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-70.70	-71.18	-42.92	-21.25	21.67
5300	-71.25	-71.31	-43.27	-21.25	22.02
5320	-69.96	-70.59	-42.25	-21.25	21.00
5250	-70.15	-71.07	-42.58	-21.25	21.33

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 1GHz~3GHz

Frequency(MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-84.81	-84.67	-56.73	-41.25	15.48
5300	-84.55	-84.76	-56.64	-41.25	15.39
5250	-84.77	-83.84	-56.27	-41.25	15.02

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-70.66	-71.17	-42.90	-21.25	21.65
5300	-70.78	-69.24	-41.93	-21.25	20.68
5250	-70.87	-70.66	-42.75	-21.25	21.50

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-85.18	-84.80	-56.98	-41.25	15.73
5580	-85.29	-85.16	-57.21	-41.25	15.96
5650	-85.12	-85.17	-57.13	-41.25	15.88
5720	-85.18	-84.80	-56.98	-41.25	15.73

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-71.93	-71.91	-43.91	-21.25	22.66
5580	-72.34	-72.41	-44.36	-21.25	23.11
5650	-71.74	-71.48	-43.60	-21.25	22.35
5720	-72.24	-72.18	-44.20	-21.25	22.95

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-85.01	-85.16	-57.07	-41.25	15.82
5610	-85.36	-85.15	-57.24	-41.25	15.99
5650	-85.11	-85.05	-57.07	-41.25	15.82
5720	-85.51	-85.21	-57.35	-41.25	16.10

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-72.06	-72.03	-44.03	-21.25	22.78
5610	-72.22	-71.24	-43.69	-21.25	22.44
5650	-71.23	-72.36	-43.75	-21.25	22.50
5720	-70.97	-71.74	-43.33	-21.25	22.08

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-71.27	-70.20	-42.69	-41.25	1.44
5300	-71.68	-71.34	-43.50	-41.25	2.25
5320	-71.39	-71.22	-43.29	-41.25	2.04
5250	-69.94	-68.86	-41.36	-41.25	0.11

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-59.82	-57.90	-30.74	-21.25	9.49
5300	-59.52	-59.34	-31.42	-21.25	10.17
5320	-59.30	-58.92	-31.10	-21.25	9.85
5250	-57.76	-57.78	-29.76	-21.25	8.51

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-71.57	-69.62	-42.48	-41.25	1.23
5300	-70.64	-69.41	-41.97	-41.25	0.72
5250	-70.31	-69.76	-42.02	-41.25	0.77

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-59.66	-57.82	-30.63	-21.25	9.38
5300	-58.82	-57.53	-30.12	-21.25	8.87
5250	-57.97	-58.75	-30.33	-21.25	9.08

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-73.24	-72.93	-45.07	-41.25	3.82
5580	-72.17	-72.10	-44.12	-41.25	2.87
5650	-72.02	-72.38	-44.19	-41.25	2.94
5720	-71.51	-72.34	-43.89	-41.25	2.64

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-61.27	-61.96	-33.59	-21.25	12.34
5580	-61.17	-62.53	-33.79	-21.25	12.54
5650	-60.76	-62.19	-33.41	-21.25	12.16
5720	-60.80	-62.26	-33.46	-21.25	12.21

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 3GHz~6GHz
Restriction Band	Emission in non-restriction band		

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-59.85	-58.98	-31.38	-27.00	4.38
5580	-58.31	-59.40	-30.81	-27.00	3.81
5650	-57.95	-58.82	-30.35	-27.00	3.35
5720	-59.29	-59.12	-31.19	-27.00	4.19

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-73.19	-72.44	-44.79	-41.25	3.54
5610	-71.55	-72.24	-43.87	-41.25	2.62
5650	-73.24	-72.51	-44.85	-41.25	3.60
5720	-72.53	-71.79	-44.13	-41.25	2.88

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-61.28	-62.12	-33.67	-21.25	12.42
5610	-62.06	-62.65	-34.33	-21.25	13.08
5650	-61.89	-62.49	-34.17	-21.25	12.92
5720	-61.19	-61.37	-33.27	-21.25	12.02

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 3GHz~6GHz
Restriction Band	Emission in non-restriction band		

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5510	-58.28	-59.74	-30.94	-27.00	3.94
5610	-58.03	-59.16	-30.55	-27.00	3.55
5650	-58.91	-58.94	-30.91	-27.00	3.91
5720	-58.03	-58.10	-30.05	-27.00	3.05

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-78.22	-74.70	-48.10	-41.25	6.85
5300	-78.09	-74.60	-47.99	-41.25	6.74
5320	-78.20	-74.61	-48.03	-41.25	6.78
5250	-77.66	-74.08	-47.50	-41.25	6.25

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-65.68	-62.52	-35.81	-21.25	14.56
5300	-66.15	-61.58	-35.28	-21.25	14.03
5320	-66.38	-62.40	-35.94	-21.25	14.69
5250	-65.58	-61.16	-34.82	-21.25	13.57

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-78.05	-74.12	-47.64	-41.25	6.39
5300	-77.69	-74.01	-47.46	-41.25	6.21
5250	-77.60	-73.95	-47.39	-41.25	6.14

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-64.25	-61.39	-34.58	-21.25	13.33
5300	-65.19	-61.43	-34.90	-21.25	13.65
5250	-65.20	-61.30	-34.82	-21.25	13.57

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-77.54	-73.44	-47.01	-41.25	5.76
5580	-73.66	-72.77	-45.18	-41.25	3.93
5650	-74.29	-73.07	-45.63	-41.25	4.38
5720	-74.59	-72.37	-45.33	-41.25	4.08

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-65.49	-62.40	-35.67	-21.25	14.42
5580	-63.49	-61.73	-34.51	-21.25	13.26
5650	-62.26	-60.17	-33.08	-21.25	11.83
5720	-62.91	-61.08	-33.89	-21.25	12.64

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-77.48	-72.58	-46.36	-41.25	5.11
5610	-75.60	-71.07	-44.76	-41.25	3.51
5650	-74.60	-71.54	-44.80	-41.25	3.55
5720	-74.32	-71.52	-44.69	-41.25	3.44

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-65.61	-62.06	-35.47	-21.25	14.22
5610	-63.71	-60.55	-33.84	-21.25	12.59
5650	-63.19	-61.02	-33.96	-21.25	12.71
5720	-62.35	-60.80	-33.50	-21.25	12.25

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-78.22	-78.33	-50.26	-41.25	9.01
5300	-78.20	-78.35	-50.26	-41.25	9.01
5320	-78.31	-78.08	-50.18	-41.25	8.93
5250	-78.34	-78.30	-50.31	-41.25	9.06

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-65.18	-65.70	-37.42	-21.25	16.17
5300	-65.91	-64.76	-37.29	-21.25	16.04
5320	-65.30	-65.46	-37.37	-21.25	16.12
5250	-65.76	-65.61	-37.67	-21.25	16.42

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-77.92	-78.16	-50.03	-41.25	8.78
5300	-78.28	-78.17	-50.21	-41.25	8.96
5250	-78.42	-78.24	-50.32	-41.25	9.07

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-66.40	-66.03	-38.20	-21.25	16.95
5300	-65.82	-66.26	-38.02	-21.25	16.77
5250	-65.40	-65.29	-37.33	-21.25	16.08

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-79.01	-78.89	-50.94	-41.25	9.69
5580	-78.76	-78.92	-50.83	-41.25	9.58
5650	-78.86	-78.96	-50.90	-41.25	9.65
5720	-78.91	-78.90	-50.89	-41.25	9.64

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-65.76	-65.37	-37.55	-21.25	16.30
5580	-66.11	-65.65	-37.86	-21.25	16.61
5650	-66.31	-65.32	-37.78	-21.25	16.53
5720	-65.63	-66.21	-37.90	-21.25	16.65

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-78.95	-78.98	-50.95	-41.25	9.70
5610	-78.90	-78.73	-50.80	-41.25	9.55
5650	-78.74	-78.97	-50.84	-41.25	9.59
5720	-78.83	-78.94	-50.87	-41.25	9.62

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-66.21	-65.46	-37.81	-21.25	16.56
5610	-66.06	-66.44	-38.24	-21.25	16.99
5650	-65.71	-66.06	-37.87	-21.25	16.62
5720	-66.21	-66.49	-38.34	-21.25	17.09

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-73.31	-73.41	-45.35	-41.25	4.10
5300	-73.14	-73.26	-45.19	-41.25	3.94
5320	-73.23	-73.27	-45.24	-41.25	3.99
5250	-73.06	-73.25	-45.14	-41.25	3.89

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-60.36	-60.56	-32.45	-21.25	11.20
5300	-60.47	-60.78	-32.61	-21.25	11.36
5320	-60.63	-60.16	-32.38	-21.25	11.13
5250	-60.20	-60.43	-32.30	-21.25	11.05

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-73.25	-73.10	-45.16	-41.25	3.91
5300	-72.91	-73.15	-45.02	-41.25	3.77
5250	-72.90	-73.15	-45.01	-41.25	3.76

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5290	-60.17	-59.32	-31.71	-21.25	10.46
5300	-60.58	-60.43	-32.49	-21.25	11.24
5250	-60.54	-60.77	-32.64	-21.25	11.39

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-73.70	-73.80	-45.74	-41.25	4.49
5580	-73.64	-73.84	-45.73	-41.25	4.48
5650	-73.82	-73.66	-45.73	-41.25	4.48
5720	-73.76	-73.82	-45.78	-41.25	4.53

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-61.31	-61.16	-33.22	-21.25	11.97
5580	-61.65	-60.39	-32.96	-21.25	11.71
5650	-60.61	-60.68	-32.63	-21.25	11.38
5720	-61.08	-60.87	-32.96	-21.25	11.71

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Average / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-73.82	-73.89	-45.84	-41.25	4.59
5610	-73.69	-73.75	-45.71	-41.25	4.46
5650	-73.84	-73.83	-45.82	-41.25	4.57
5720	-73.85	-74.01	-45.92	-41.25	4.67

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 80M / Peak / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5520	-60.82	-59.79	-32.26	-21.25	11.01
5610	-61.72	-60.63	-33.13	-21.25	11.88
5650	-60.04	-60.11	-32.06	-21.25	10.81
5720	-61.04	-60.58	-32.79	-21.25	11.54

For Antenna 3:

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-83.72	-84.17	-78.93	-41.25	37.68
5300	-82.99	-82.49	-77.72	-41.25	36.47
5320	-83.91	-82.56	-78.17	-41.25	36.92
5250	-83.45	-81.65	-77.45	-41.25	36.20

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-68.98	-66.68	-62.67	-21.25	41.42
5300	-69.45	-67.39	-63.29	-21.25	42.04
5320	-67.62	-66.45	-61.99	-21.25	40.74
5250	-60.82	-68.21	-58.09	-21.25	36.84

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-82.80	-82.02	-77.38	-41.25	36.13
5580	-83.03	-79.60	-75.97	-41.25	34.72
5650	-83.23	-79.78	-76.16	-41.25	34.91
5720	-82.76	-82.93	-77.83	-41.25	36.58

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 1GHz~3GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-65.35	-62.15	-58.45	-21.25	37.20
5580	-70.42	-69.81	-65.09	-21.25	43.84
5650	-69.52	-70.21	-64.84	-21.25	43.59
5720	-68.84	-70.91	-64.74	-21.25	43.49

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-57.62	-56.62	-52.08	-41.25	10.83
5300	-54.71	-54.95	-49.82	-41.25	8.57
5320	-55.07	-55.79	-50.40	-41.25	9.15
5250	-60.67	-62.71	-56.56	-41.25	15.31

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-45.59	-43.10	-39.16	-21.25	17.91
5300	-43.82	-43.67	-38.73	-21.25	17.48
5320	-43.84	-43.44	-38.63	-21.25	17.38
5250	-47.32	-40.68	-37.83	-21.25	16.58

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-53.44	-54.02	-48.71	-41.25	7.46
5580	-52.58	-54.79	-48.54	-41.25	7.29
5650	-54.37	-53.59	-48.95	-41.25	7.70
5720	-55.84	-52.95	-49.15	-41.25	7.90

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 3GHz~6GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-43.07	-42.93	-37.99	-21.25	16.74
5580	-45.06	-45.49	-40.26	-21.25	19.01
5650	-44.58	-43.94	-39.24	-21.25	17.99
5720	-47.72	-44.66	-40.92	-21.25	19.67

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-70.63	-66.29	-62.93	-41.25	21.68
5300	-69.55	-65.05	-61.73	-41.25	20.48
5320	-69.56	-65.20	-61.84	-41.25	20.59
5250	-70.64	-66.92	-63.38	-41.25	22.13

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-56.49	-53.84	-49.96	-21.25	28.71
5300	-56.67	-52.15	-48.84	-21.25	27.59
5320	-57.17	-52.71	-49.38	-21.25	28.13
5250	-57.37	-45.76	-43.47	-21.25	22.22

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-62.72	-59.91	-56.08	-41.25	14.83
5580	-60.94	-60.11	-55.49	-41.25	14.24
5650	-61.33	-59.52	-55.32	-41.25	14.07
5720	-61.84	-60.87	-56.32	-41.25	15.07

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 6GHz~9GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-50.80	-48.58	-44.54	-21.25	23.29
5580	-51.32	-49.77	-45.47	-21.25	24.22
5650	-48.99	-48.05	-43.48	-21.25	22.23
5720	-50.20	-49.01	-44.55	-21.25	23.30

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-63.38	-67.11	-59.85	-41.25	18.60
5300	-70.06	-77.12	-67.28	-41.25	26.03
5320	-68.98	-77.74	-66.44	-41.25	25.19
5250	-61.57	-69.36	-58.90	-41.25	17.65

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-47.78	-53.72	-44.79	-21.25	23.54
5300	-54.22	-62.80	-51.66	-21.25	30.41
5320	-55.52	-63.93	-52.93	-21.25	31.68
5250	-50.34	-56.33	-47.36	-21.25	26.11

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-73.37	-78.26	-70.15	-41.25	28.90
5580	-75.33	-78.90	-71.75	-41.25	30.50
5650	-67.50	-77.36	-65.07	-41.25	23.82
5720	-63.62	-73.42	-61.19	-41.25	19.94

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 9GHz~18GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-57.95	-65.79	-55.29	-21.25	34.04
5580	-58.86	-63.23	-55.51	-21.25	34.26
5650	-53.06	-54.14	-48.56	-21.25	27.31
5720	-51.66	-58.32	-48.81	-21.25	27.56

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-72.89	-72.83	-67.85	-41.25	26.60
5300	-72.78	-72.68	-67.72	-41.25	26.47
5320	-72.69	-72.85	-67.76	-41.25	26.51
5250	-72.62	-72.74	-67.67	-41.25	26.42

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5260	-59.63	-59.84	-54.72	-21.25	33.47
5300	-60.15	-59.39	-54.74	-21.25	33.49
5320	-60.22	-59.60	-54.89	-21.25	33.64
5250	-59.66	-59.99	-54.81	-21.25	33.56

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Average / Port 1 + Port 2 / 18GHz~40GHz

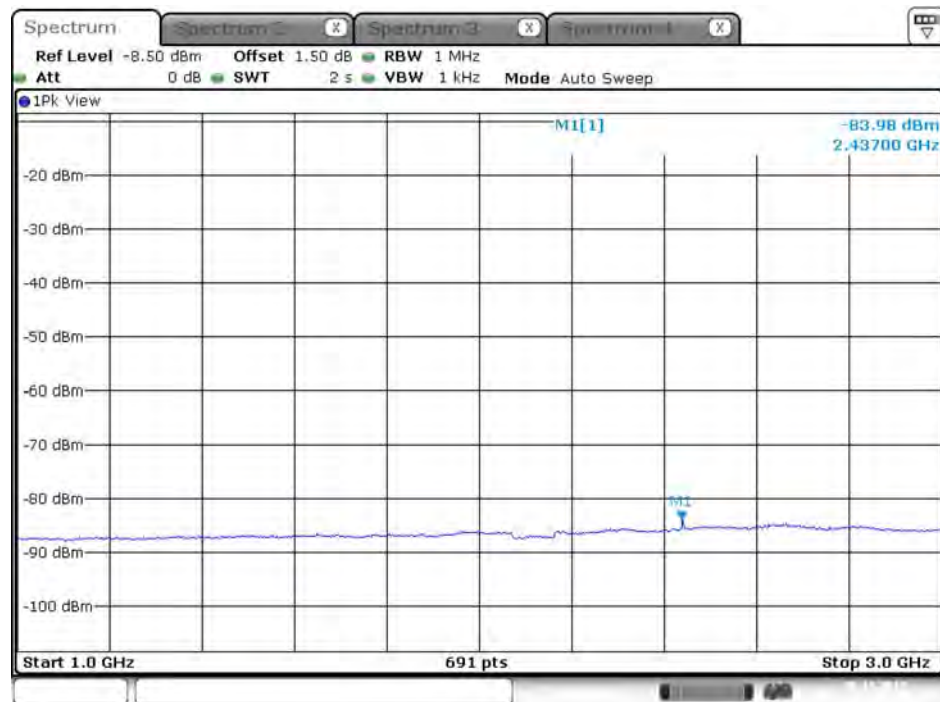
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5500	-72.83	-72.71	-67.76	-41.25	26.51
5580	-73.65	-73.95	-68.79	-41.25	27.54
5650	-73.84	-73.71	-68.76	-41.25	27.51
5720	-73.34	-73.43	-68.37	-41.25	27.12

Temperature	22°C	Humidity	54%
Test Engineer	Serway Li	Configurations	QPSK, 20M / Peak / Port 1 + Port 2 / 18GHz~40GHz

Frequency (MHz)	Chain 1 (TX1) Spurious Level (dBm)	Chain 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5500	-59.75	-60.18	-54.95	-21.25	33.70
5580	-61.46	-61.28	-56.36	-21.25	35.11
5650	-61.43	-61.07	-56.24	-21.25	34.99
5720	-61.22	-60.42	-55.79	-21.25	34.54

For Antenna 2:

Plot on Configuration QPSK, 20M / 5260 MHz / Average / Port 1 / 1GHz~3GHz



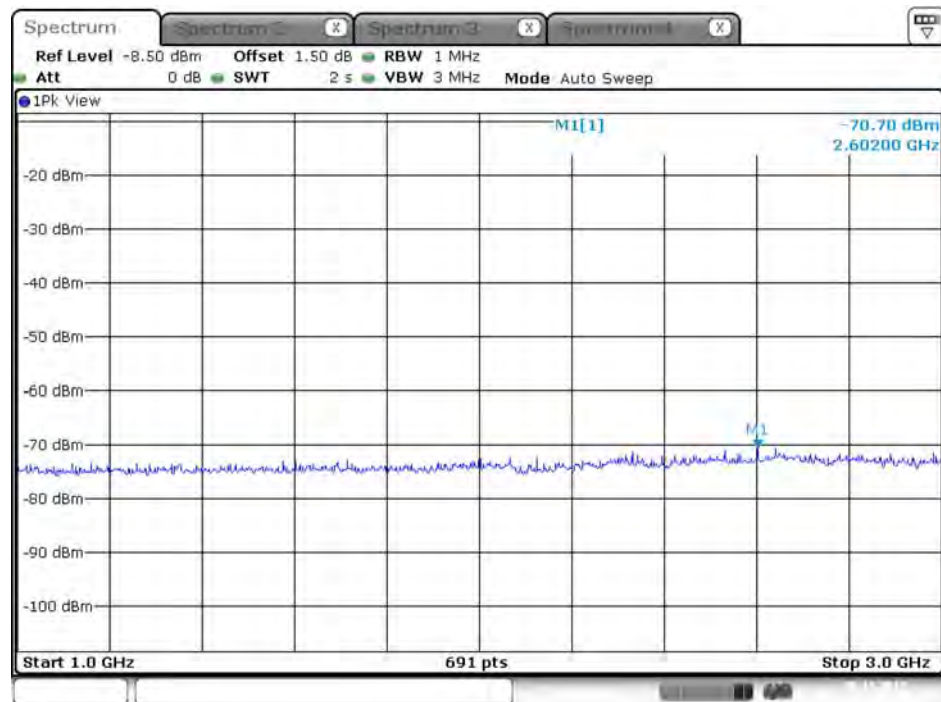
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Plot on Configuration QPSK, 20M / 5260 MHz / Average / Port 2 / 1GHz~3GHz



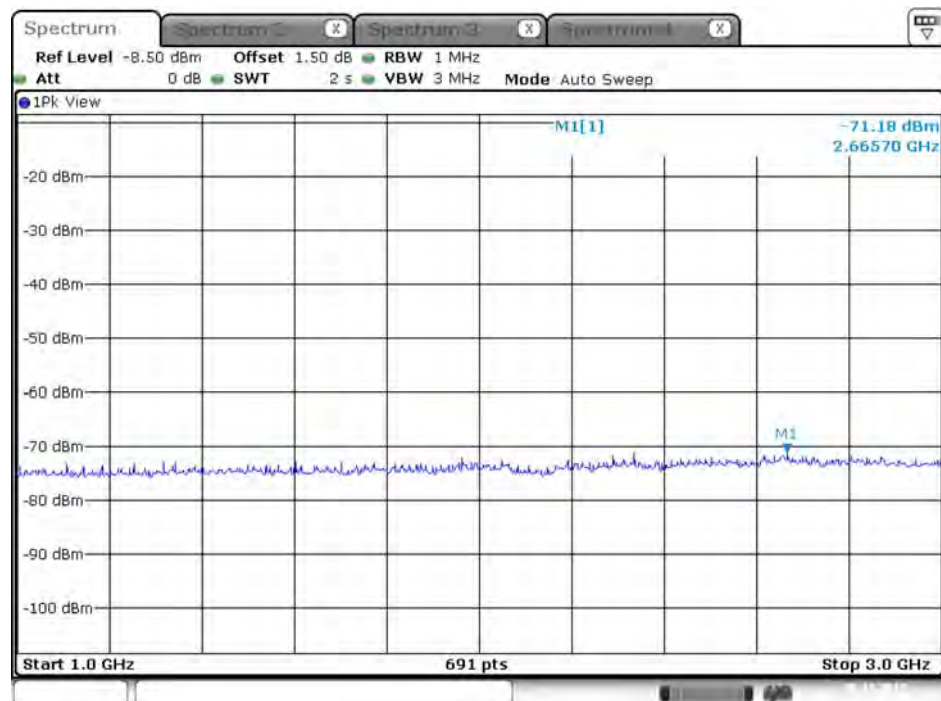
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Plot on Configuration QPSK, 20M / 5260 MHz / Peak / Port 1 / 1GHz~3GHz



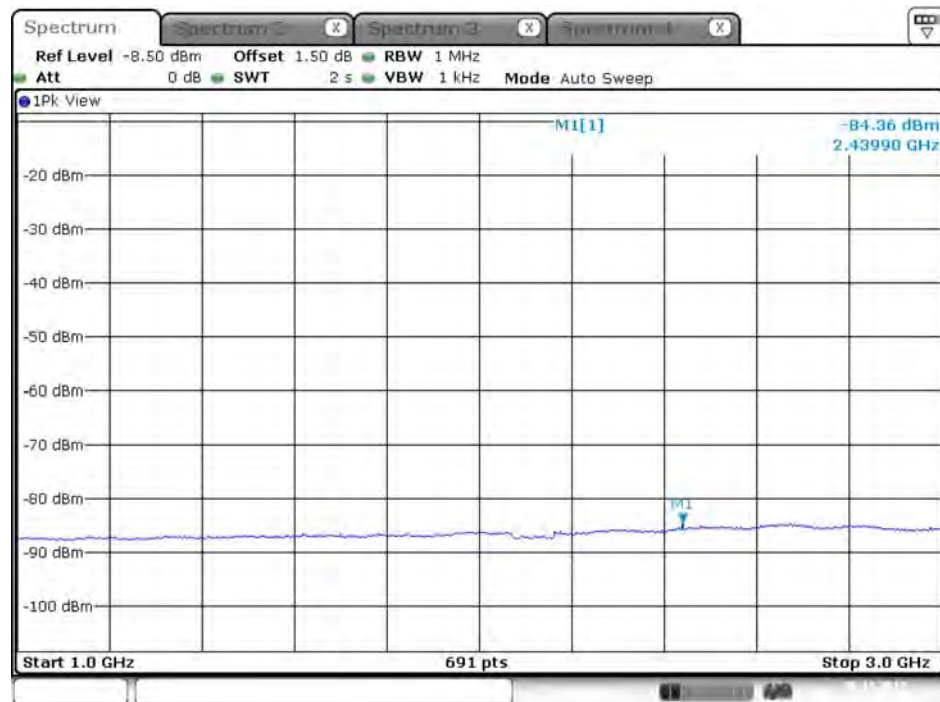
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Plot on Configuration QPSK, 20M / 5260 MHz / Peak / Port 2 / 1GHz~3GHz



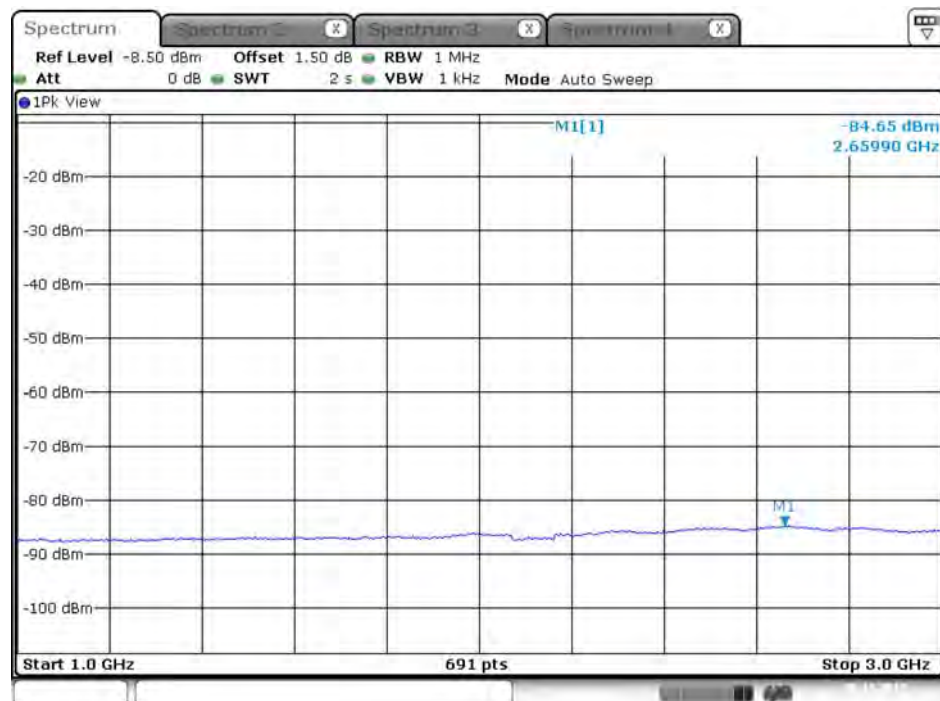
Date: 28 NOV. 2017 00:55:28

Plot on Configuration QPSK, 20M / 5300 MHz / Average / Port 1 / 1GHz~3GHz



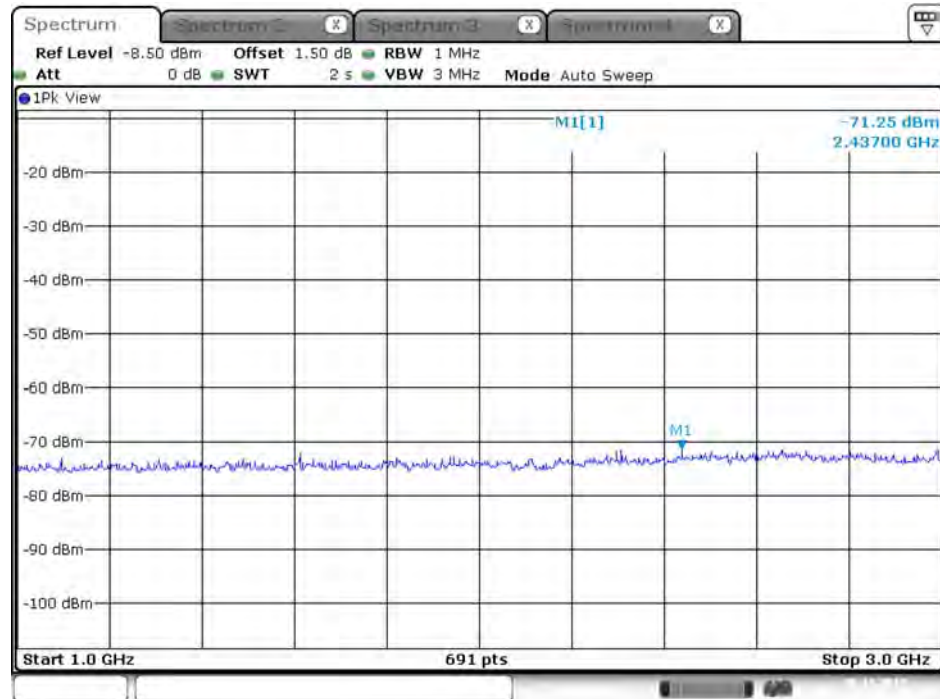
Date: 28 NOV. 2017 00:59:38

Plot on Configuration QPSK, 20M / 5300 MHz / Average / Port 2 / 1GHz~3GHz



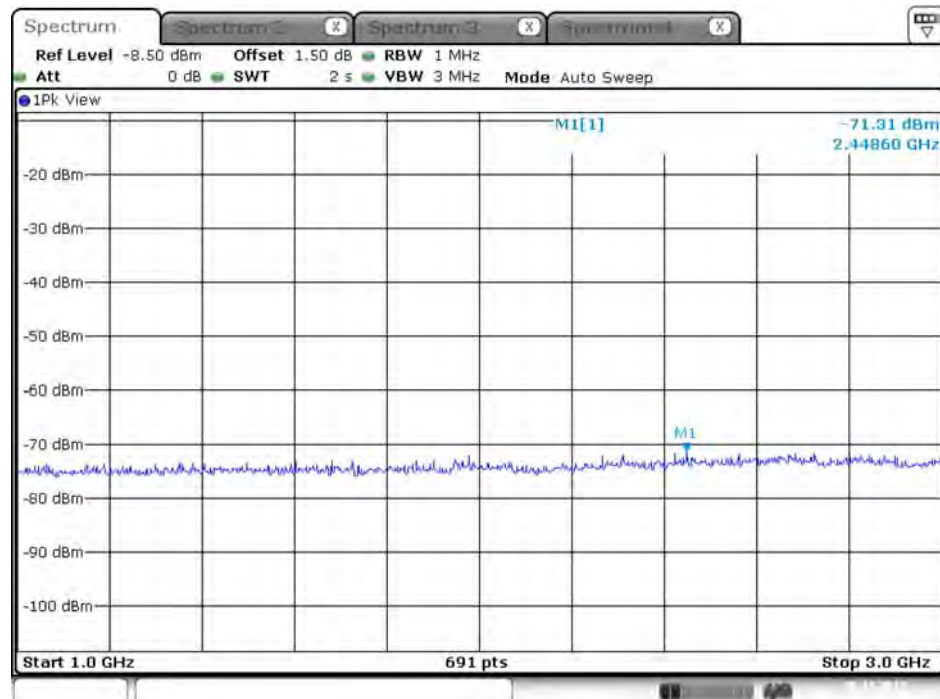
Date: 28 NOV. 2017 01:18:48

Plot on Configuration QPSK, 20M / 5300 MHz / Peak / Port 1 / 1GHz~3GHz



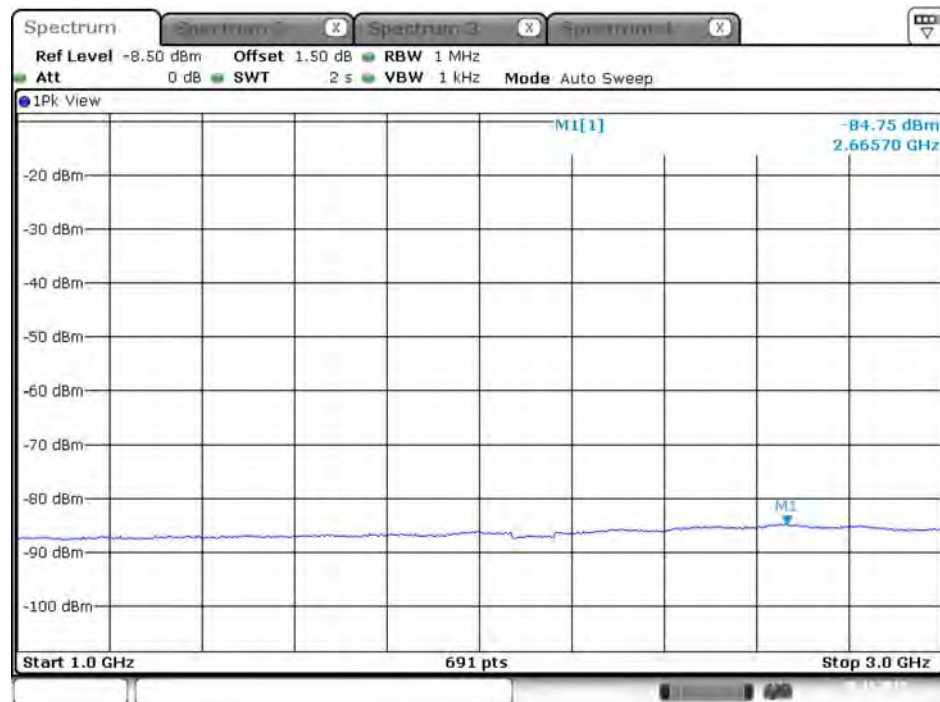
Date: 28 NOV. 2017 01:00:16

Plot on Configuration QPSK, 20M / 5300 MHz / Peak / Port 2 / 1GHz~3GHz



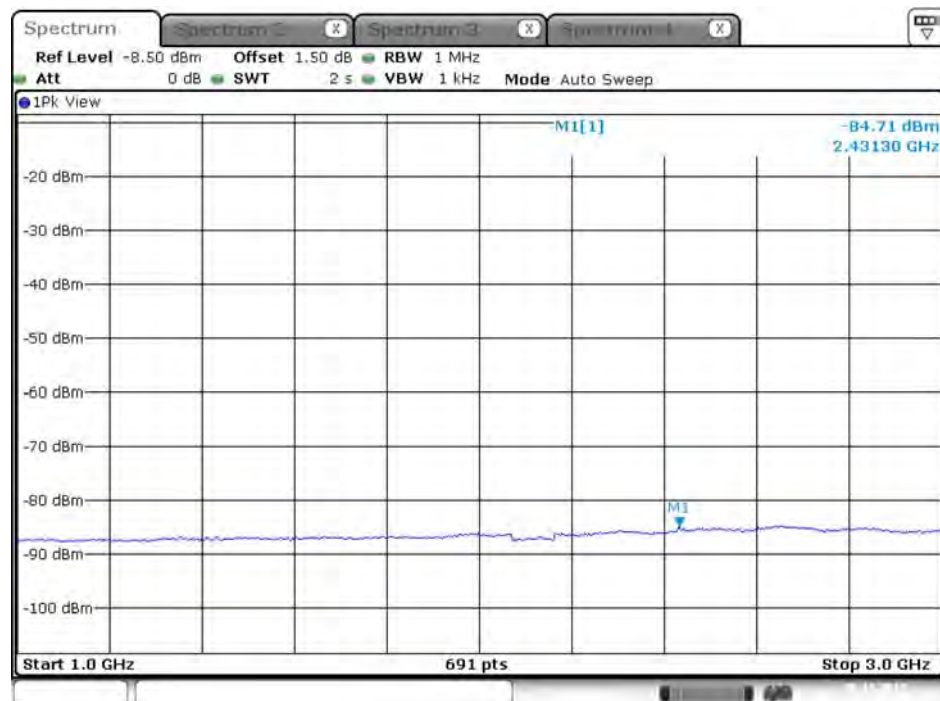
Date: 28 NOV. 2017 01:19:29

Plot on Configuration QPSK, 20M / 5320 MHz / Average / Port 1 / 1GHz~3GHz



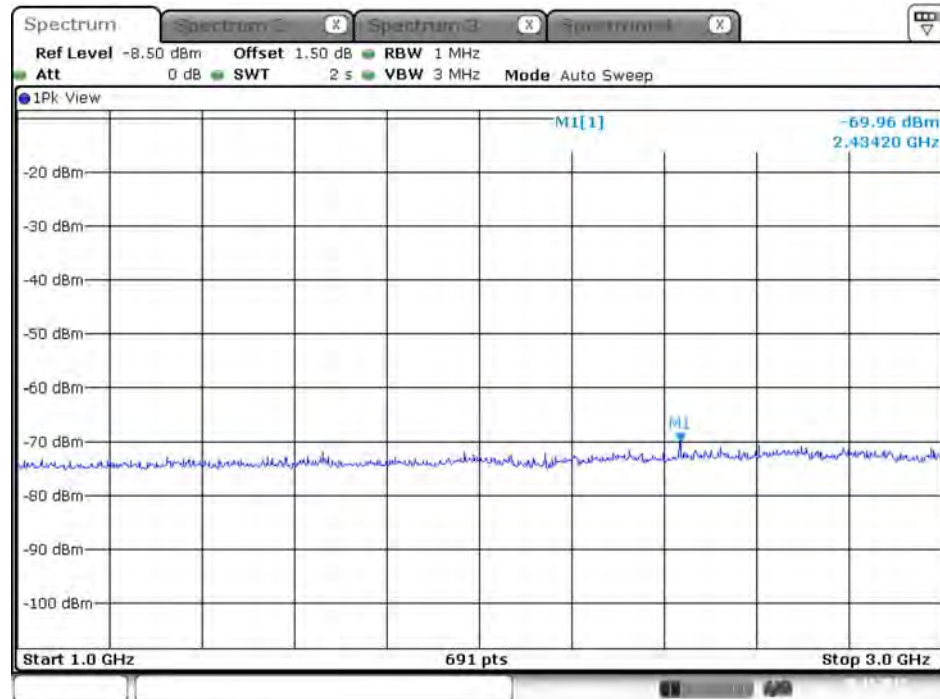
Date: 28 NOV. 2017 01:21:21

Plot on Configuration QPSK, 20M / 5320 MHz / Average / Port 2 / 1GHz~3GHz



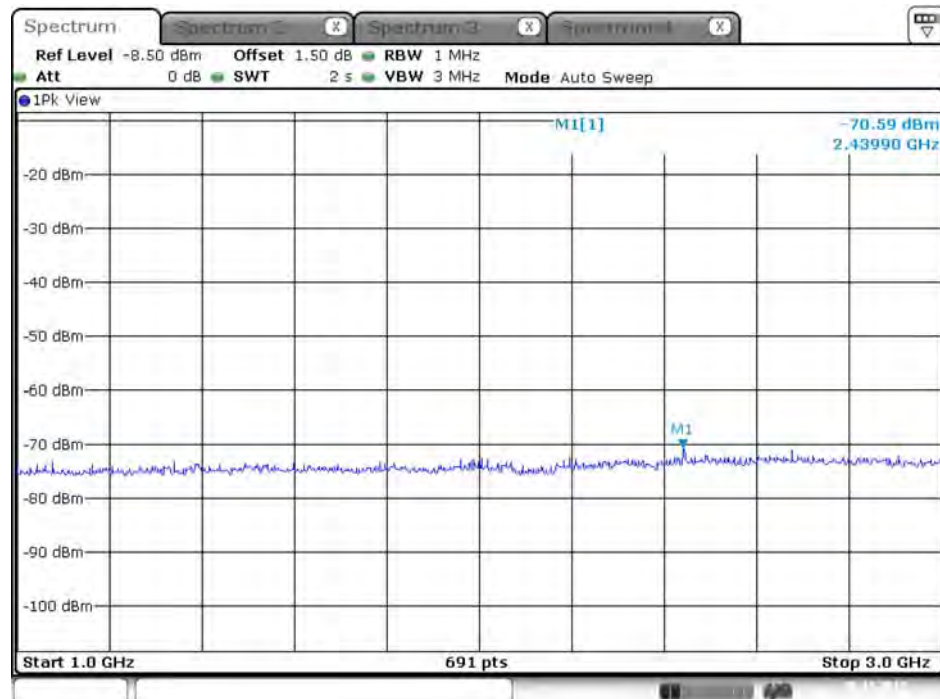
Date: 28 NOV. 2017 01:39:39

Plot on Configuration QPSK, 20M / 5320 MHz / Peak / Port 1 / 1GHz~3GHz



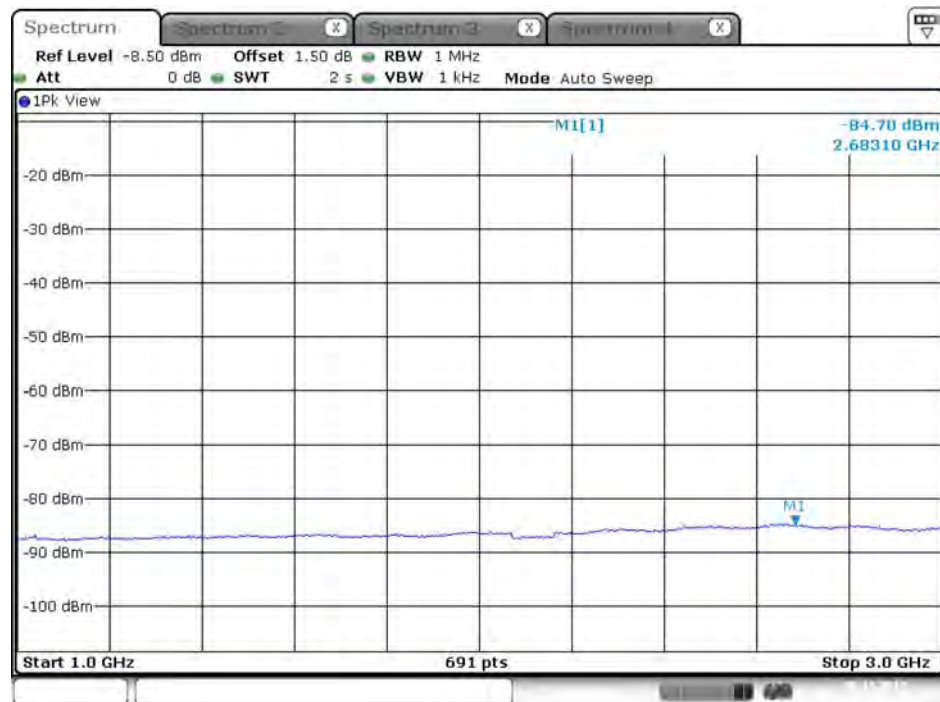
Date: 28 NOV. 2017 01:22:27

Plot on Configuration QPSK, 20M / 5320 MHz / Peak / Port 2 / 1GHz~3GHz



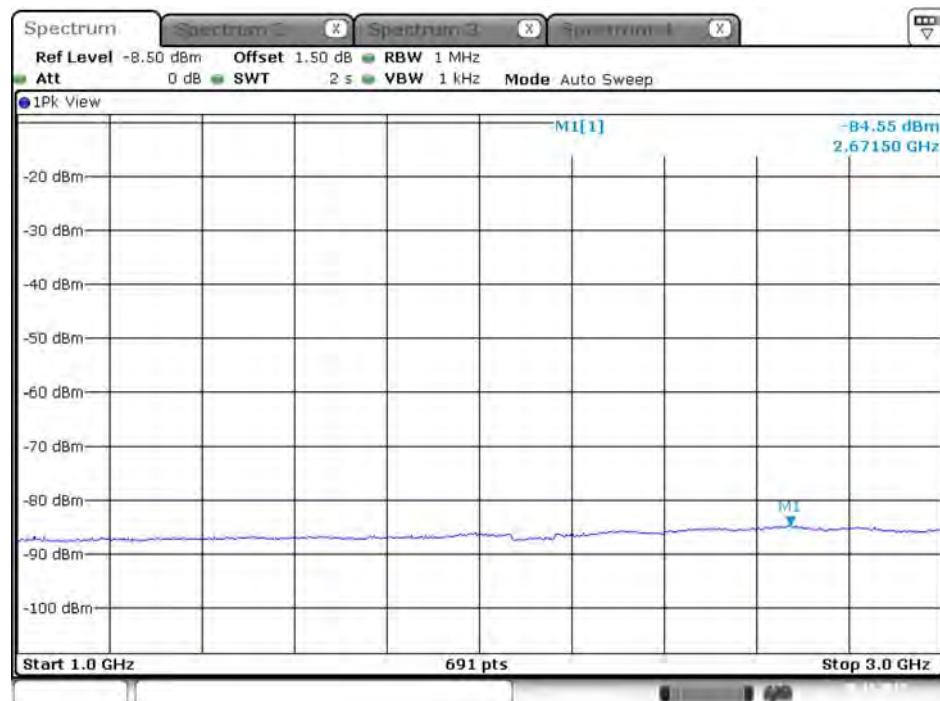
Date: 28 NOV. 2017 01:40:00

Plot on Configuration QPSK, 20M / 5250 MHz / Average / Port 1 / 1GHz~3GHz



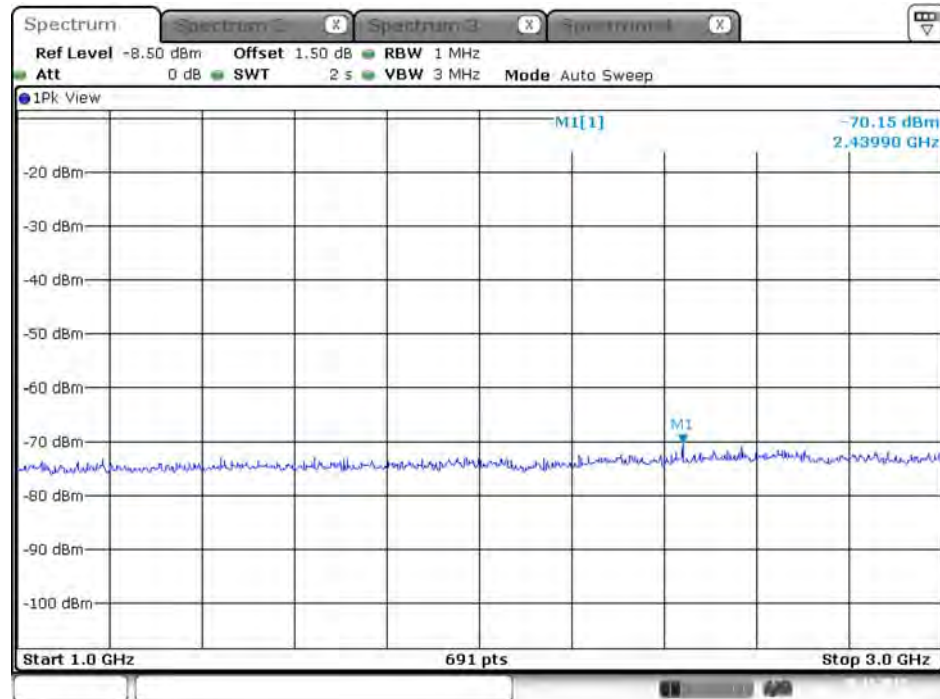
Date: 28 NOV. 2017 02:29:47

Plot on Configuration QPSK, 20M / 5250 MHz / Average / Port 2 / 1GHz~3GHz



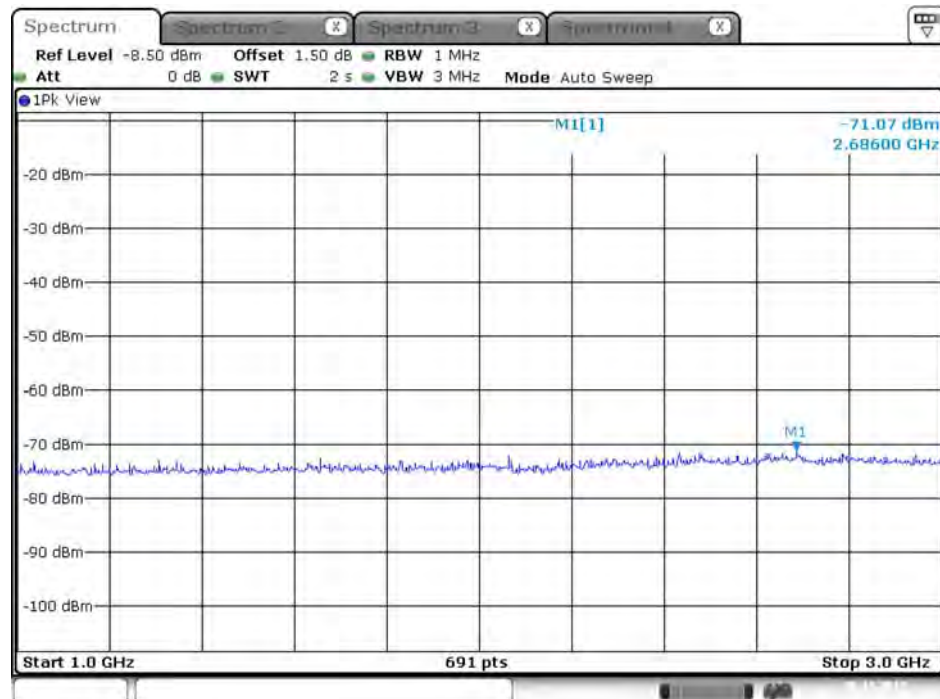
Date: 28 NOV. 2017 02:47:32

Plot on Configuration QPSK, 20M / 5250 MHz / Peak / Port 1 / 1GHz~3GHz



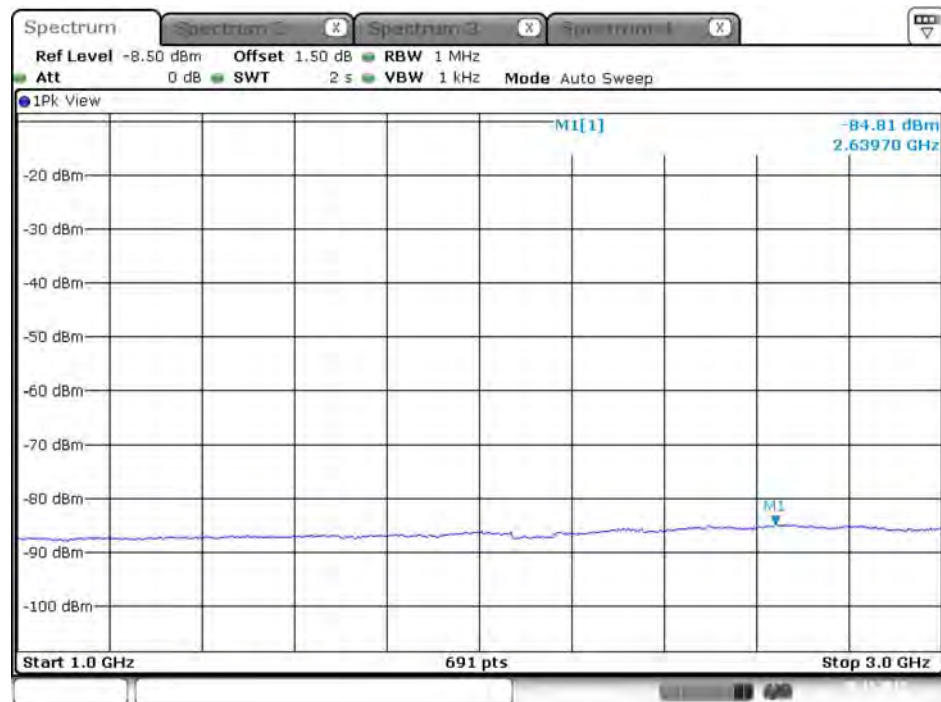
Date: 28 NOV. 2017 02:30:10

Plot on Configuration QPSK, 20M / 5250 MHz / Peak / Port 2 / 1GHz~3GHz



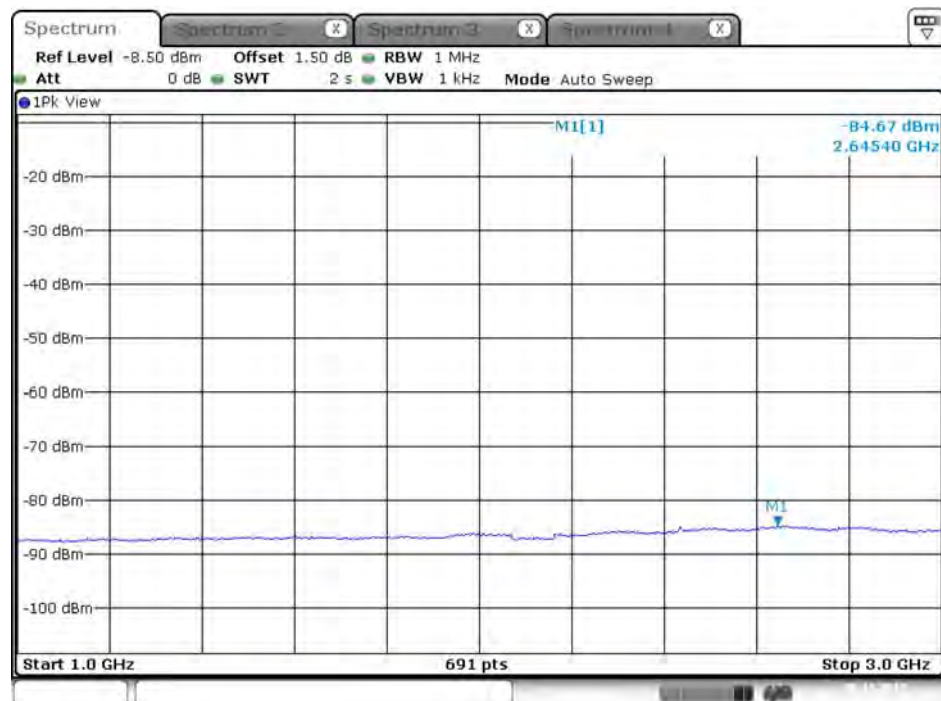
Date: 28 NOV. 2017 02:48:04

Plot on Configuration QPSK, 80M / 5290MHz / Average / Port 1 / 1GHz~3GHz



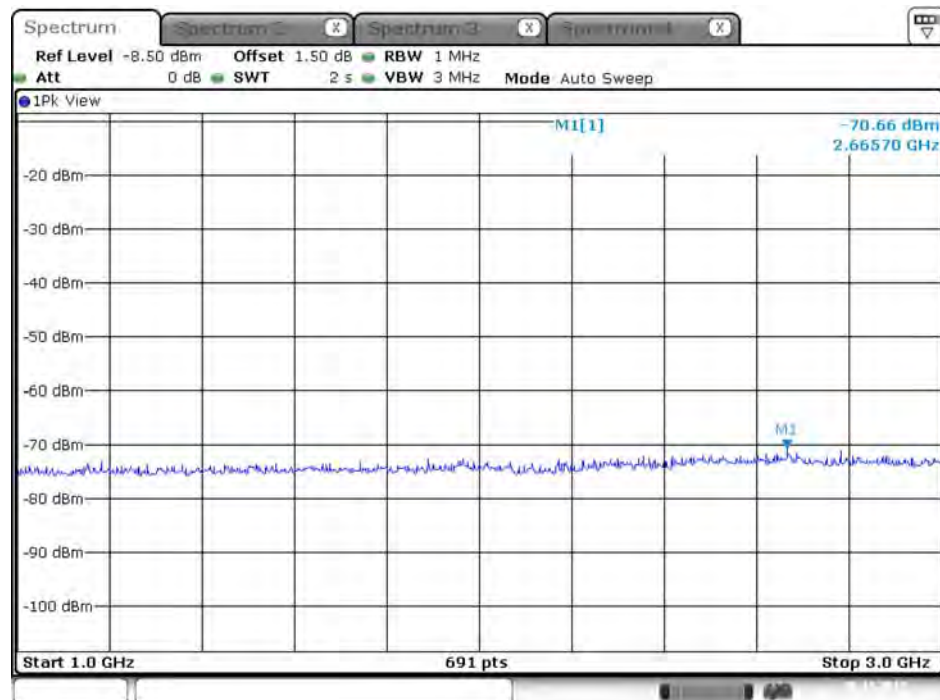
Date: 28 NOV. 2017 01:44:39

Plot on Configuration QPSK, 80M / 5290MHz / Average / Port 2 / 1GHz~3GHz



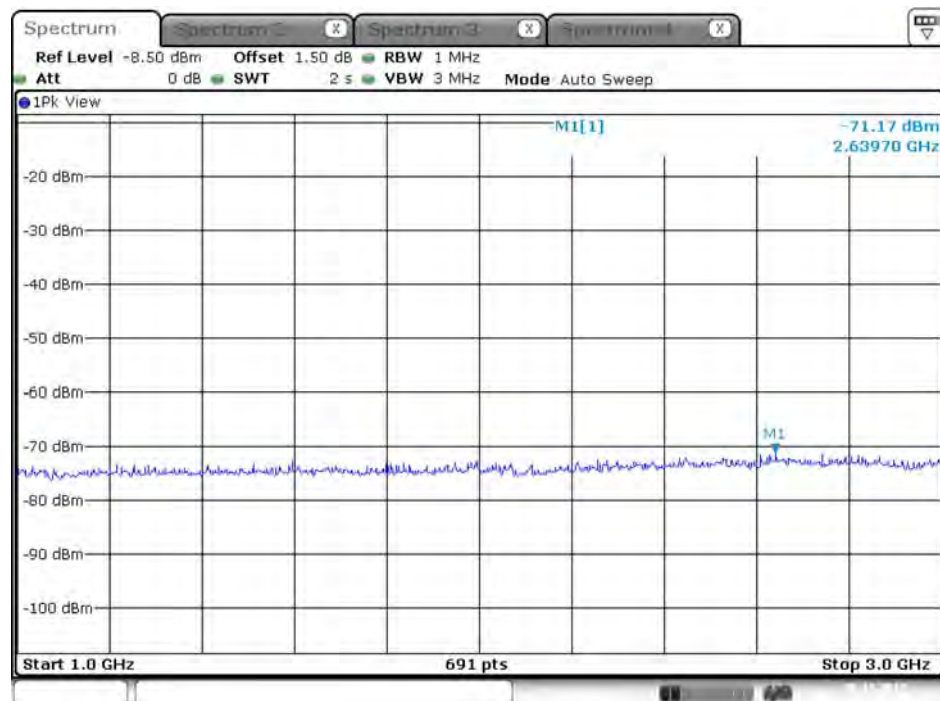
Date: 28 NOV. 2017 02:05:42

Plot on Configuration QPSK, 80M / 5290MHz / Peak / Port 1 / 1GHz~3GHz



Date: 28.NOV.2017 01:45:34

Plot on Configuration QPSK, 80M / 5290MHz / Peak / Port 2 / 1GHz~3GHz



Date: 28.NOV.2017 02:06:30

Plot on Configuration QPSK, 80M / 5300 MHz / Average / Port 1 / 1GHz~3GHz



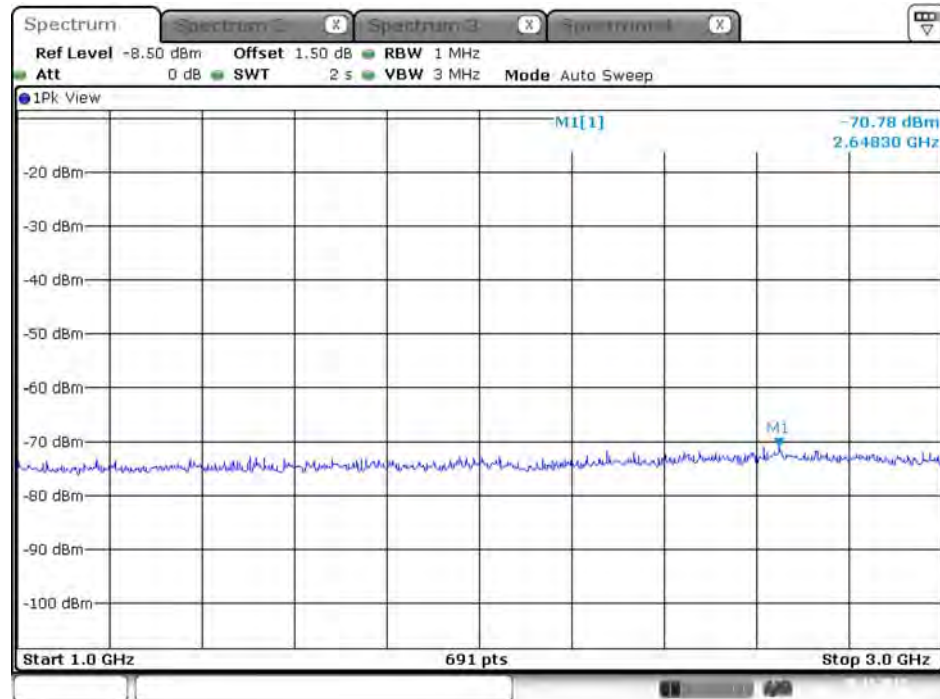
Date: 28 NOV. 2017 02:08:41

Plot on Configuration QPSK, 80M / 5300 MHz / Average / Port 2 / 1GHz~3GHz



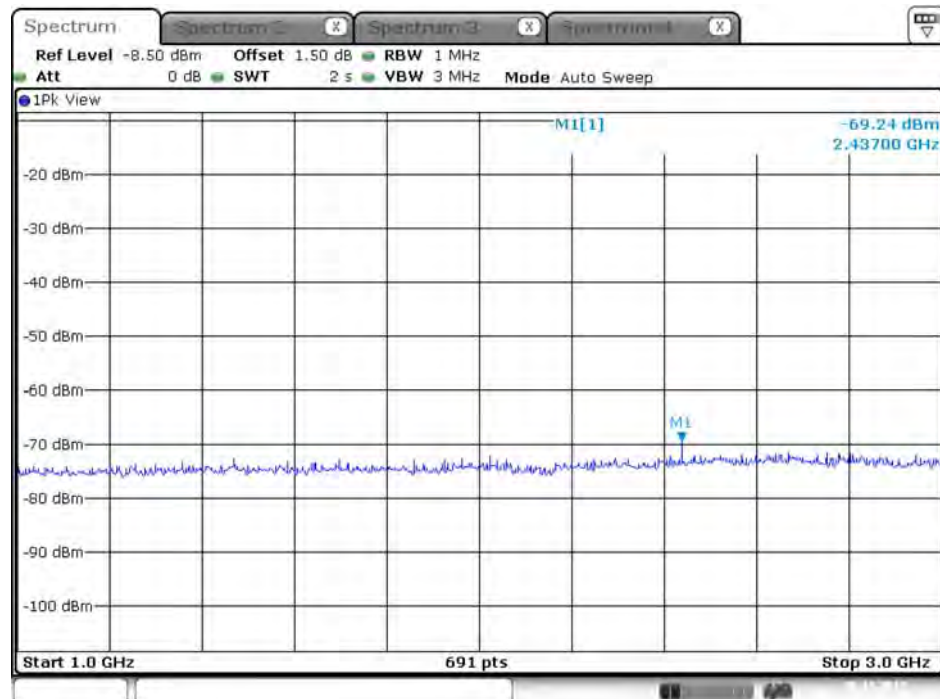
Date: 28 NOV. 2017 02:26:04

Plot on Configuration QPSK, 80M / 5300 MHz / Peak / Port 1 / 1GHz~3GHz



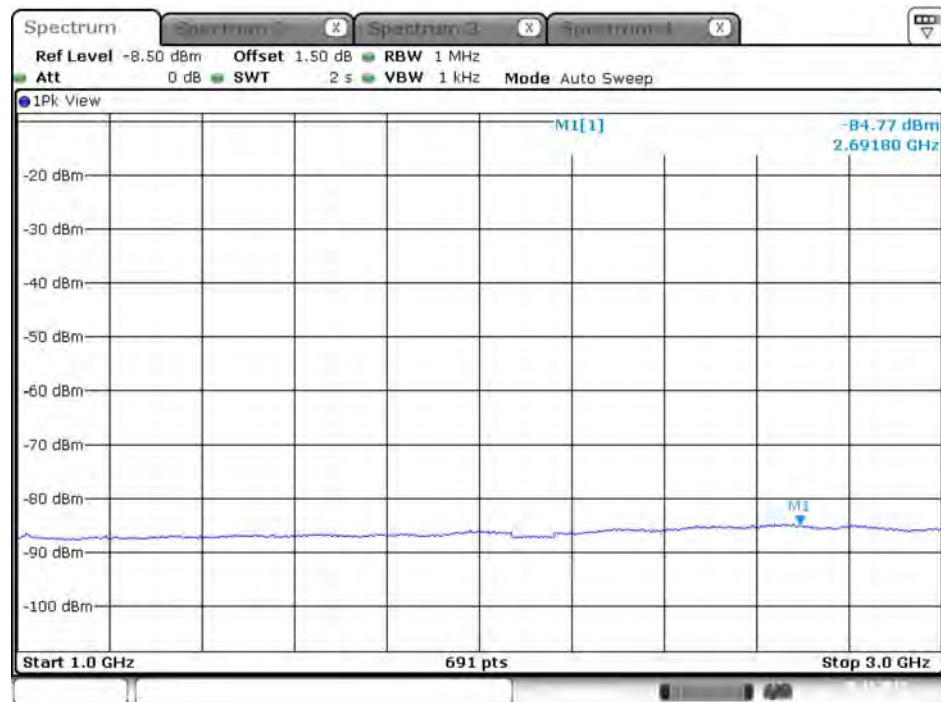
Date: 28 NOV. 2017 02:09:28

Plot on Configuration QPSK, 80M / 5300 MHz / Peak / Port 2 / 1GHz~3GHz



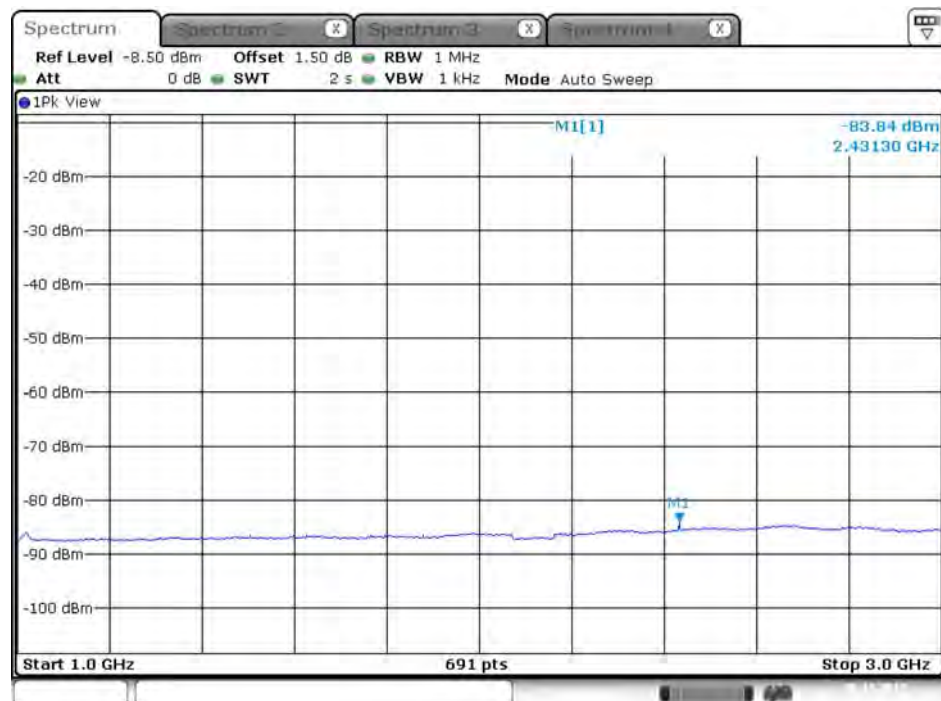
Date: 28 NOV. 2017 02:26:36

Plot on Configuration QPSK, 80M / 5250 MHz / Average / Port 1 / 1GHz~3GHz



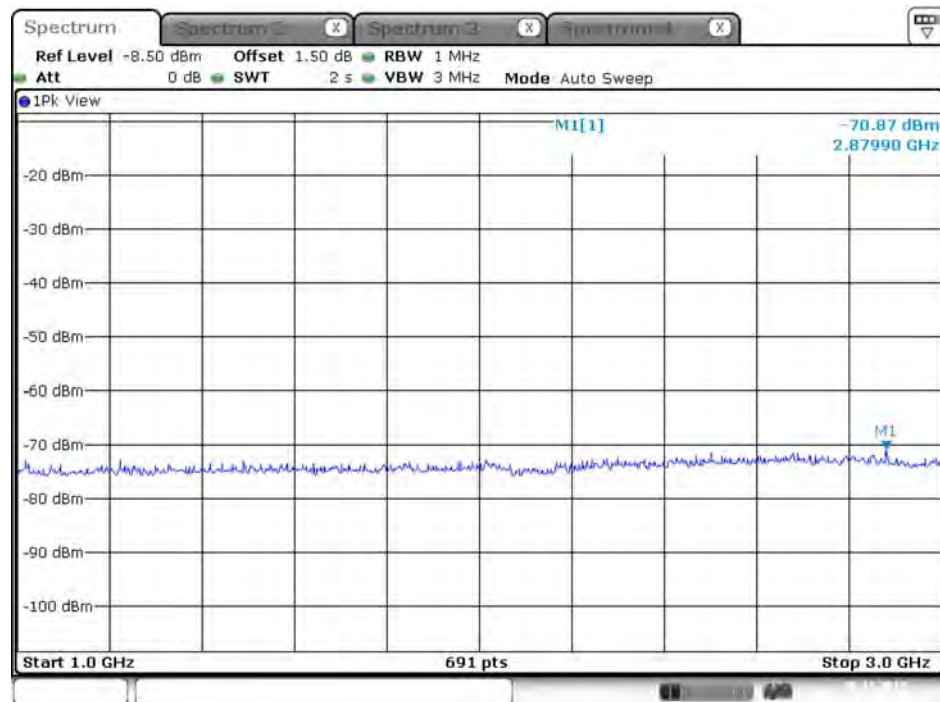
Date: 28 NOV. 2017 02:50:13

Plot on Configuration QPSK, 80M / 5250 MHz / Average / Port 2 / 1GHz~3GHz



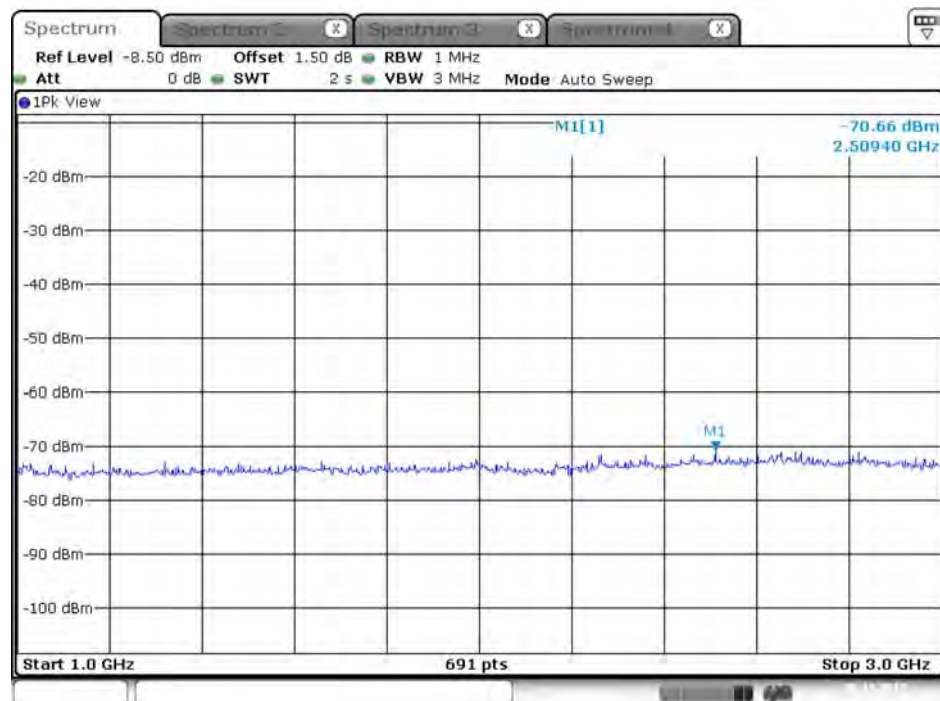
Date: 28 NOV. 2017 03:10:07

Plot on Configuration QPSK, 80M / 5250 MHz / Peak / Port 1 / 1GHz~3GHz



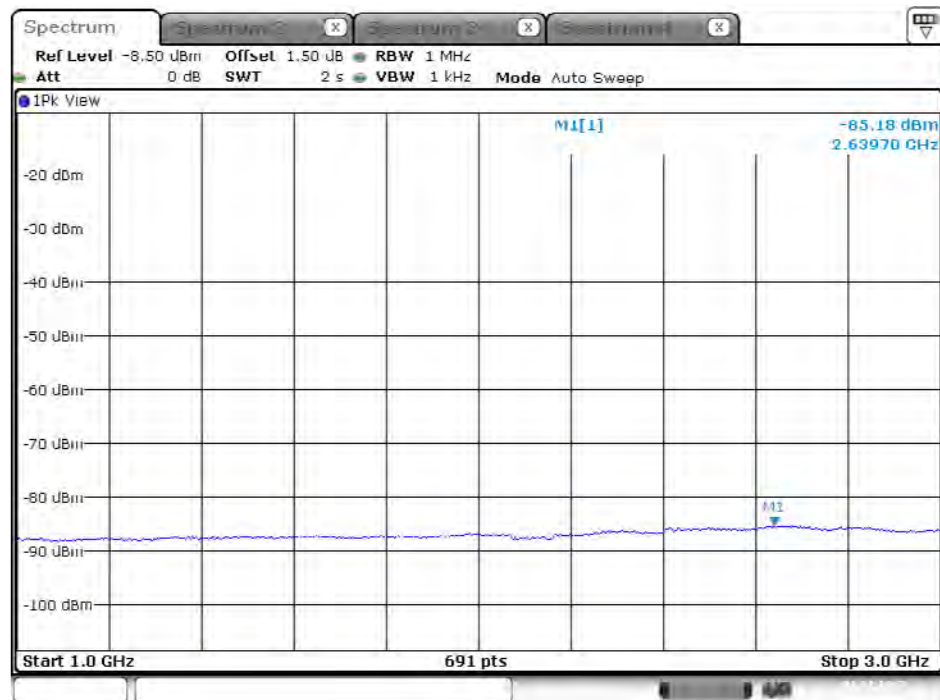
Date: 28.NOV.2017 02:51:05

Plot on Configuration QPSK, 80M / 5250 MHz / Peak / Port 2 / 1GHz~3GHz



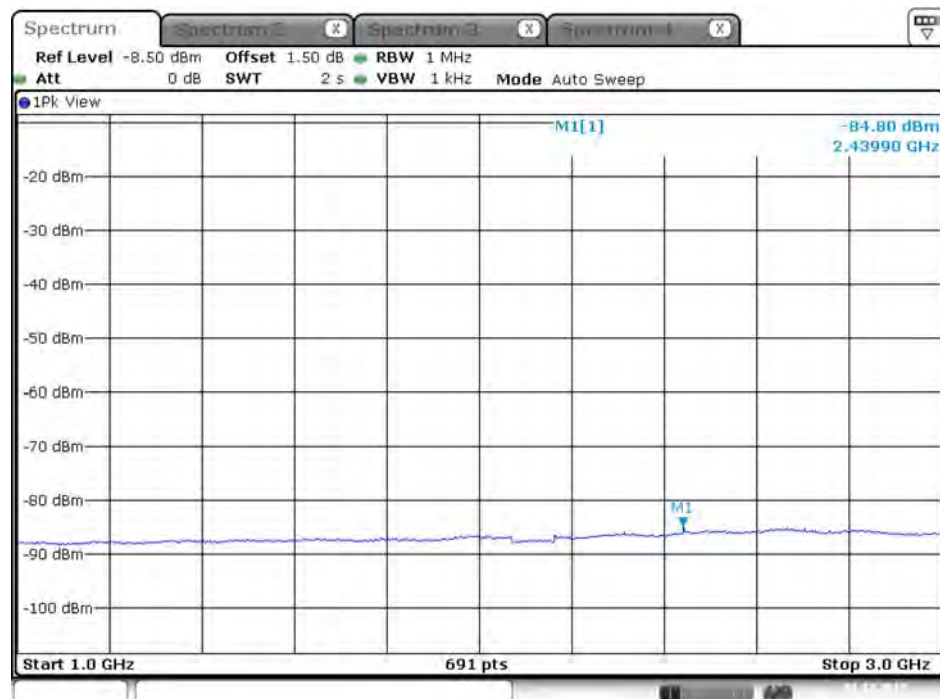
Date: 28.NOV.2017 03:10:35

Plot on Configuration QPSK, 20M / 5500 MHz / Average / Port 1 / 1GHz~3GHz



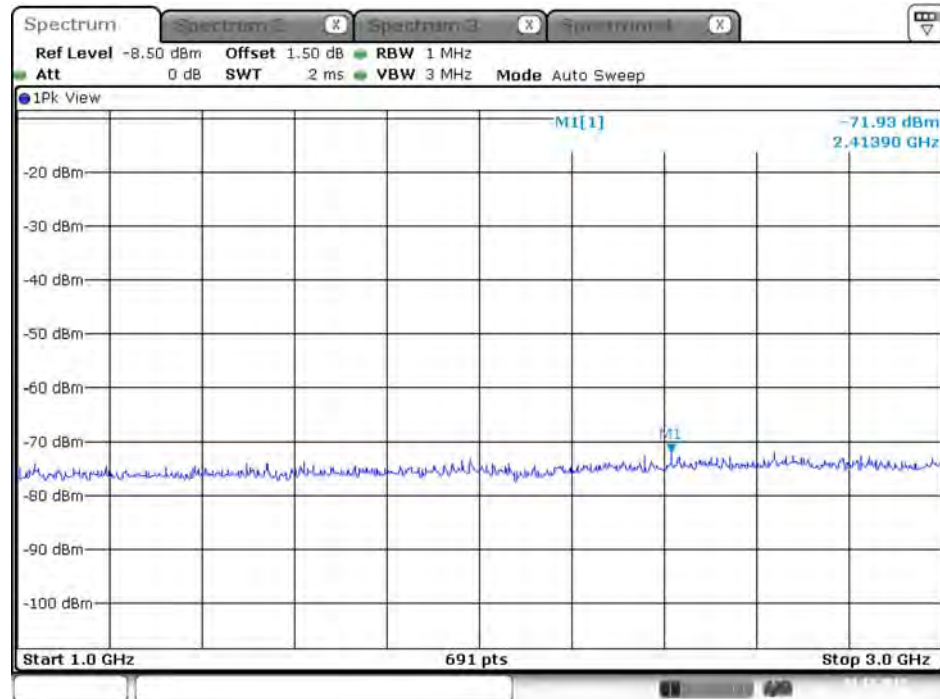
Date: 1.DEC.2017 19:31:44

Plot on Configuration QPSK, 20M / 5500 MHz / Average / Port 2 / 1GHz~3GHz



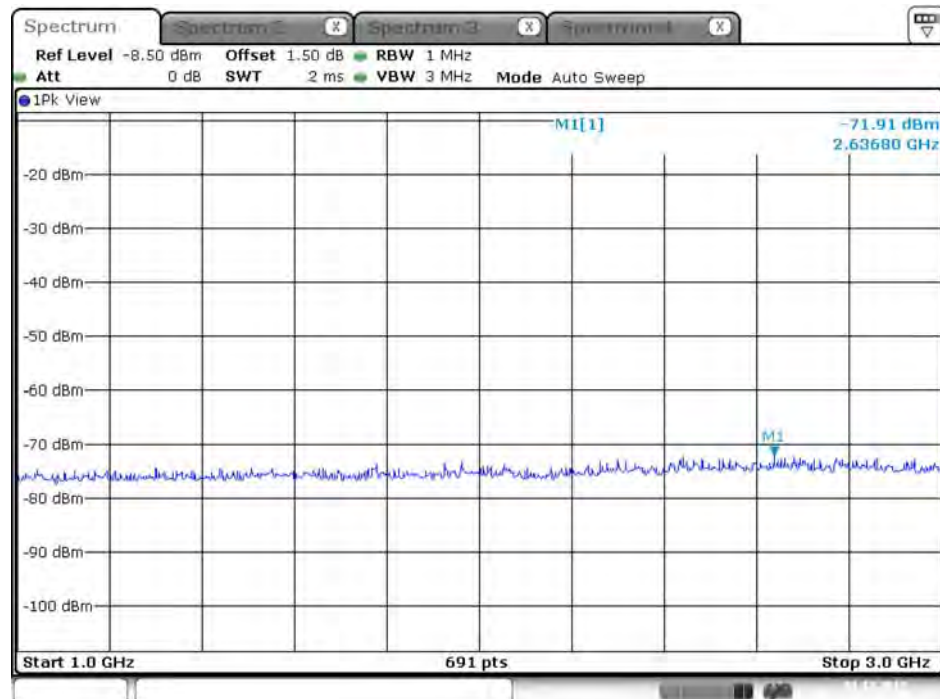
Date: 1.DEC.2017 19:58:22

Plot on Configuration QPSK, 20M / 5500 MHz / Peak / Port 1 / 1GHz~3GHz



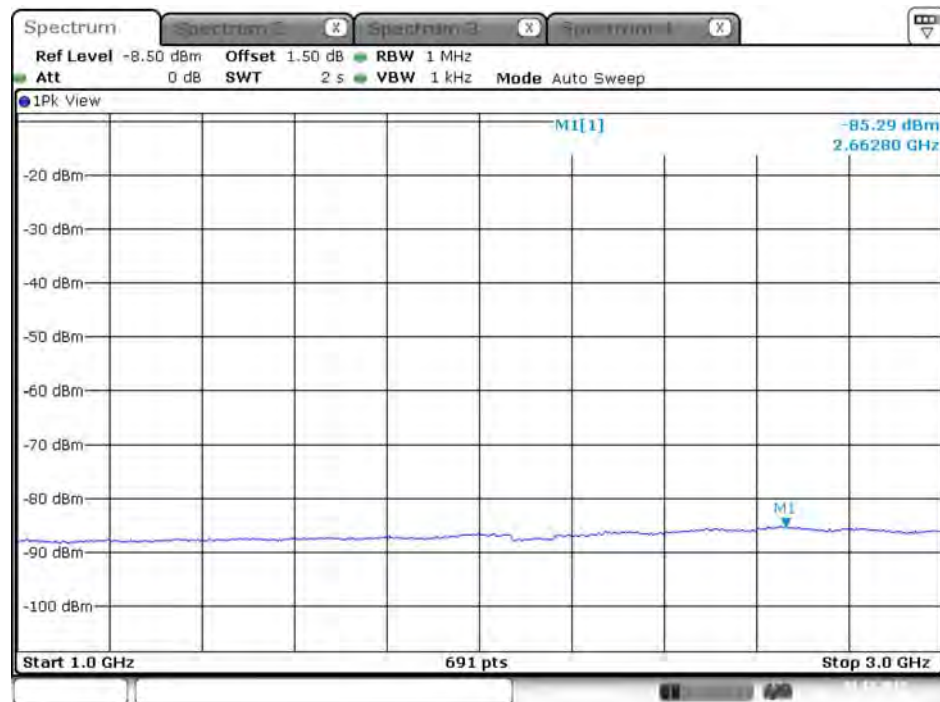
Date: 1.DEC.2017 19:38:35

Plot on Configuration QPSK, 20M / 5500 MHz / Peak / Port 2 / 1GHz~3GHz



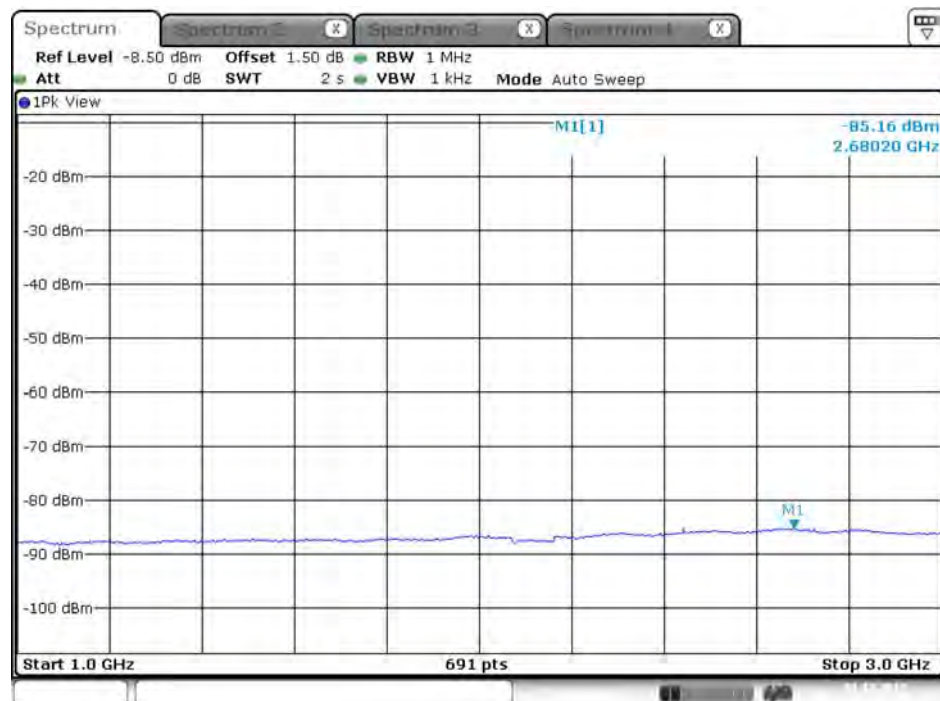
Date: 1.DEC.2017 19:58:51

Plot on Configuration QPSK, 20M / 5580 MHz / Average / Port 1 / 1GHz~3GHz



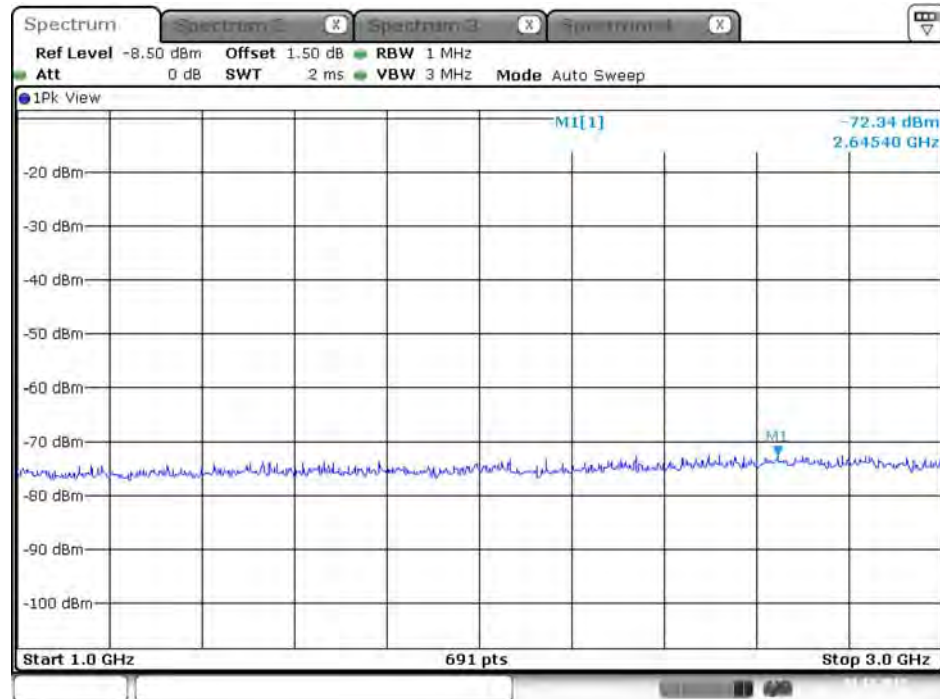
Date: 1.DEC.2017 20:00:09

Plot on Configuration QPSK, 20M / 5580 MHz / Average / Port 2 / 1GHz~3GHz



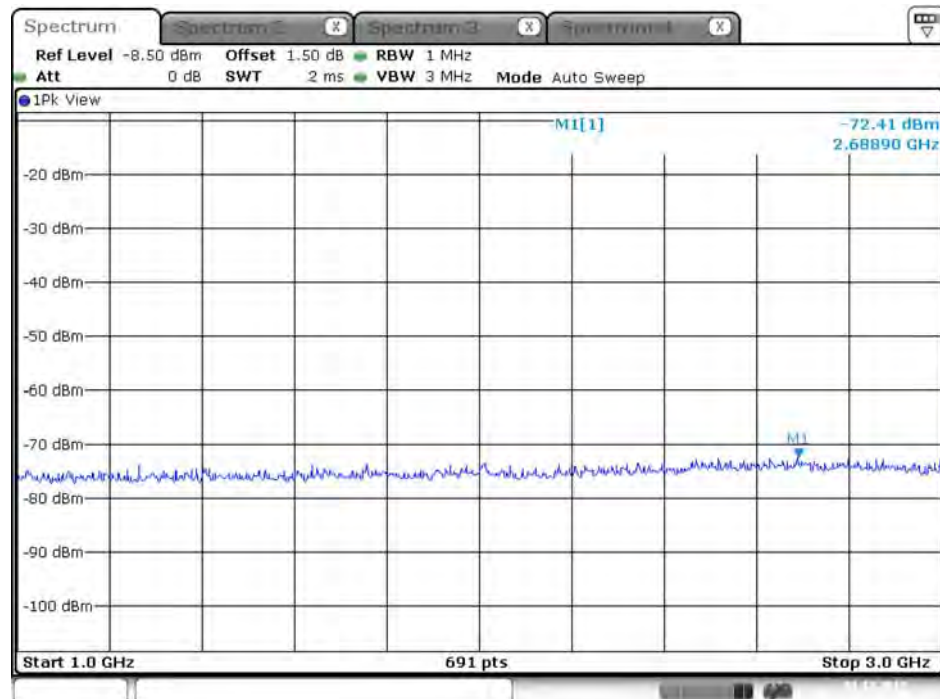
Date: 1.DEC.2017 20:23:51

Plot on Configuration QPSK, 20M / 5580 MHz / Peak / Port 1 / 1GHz~3GHz



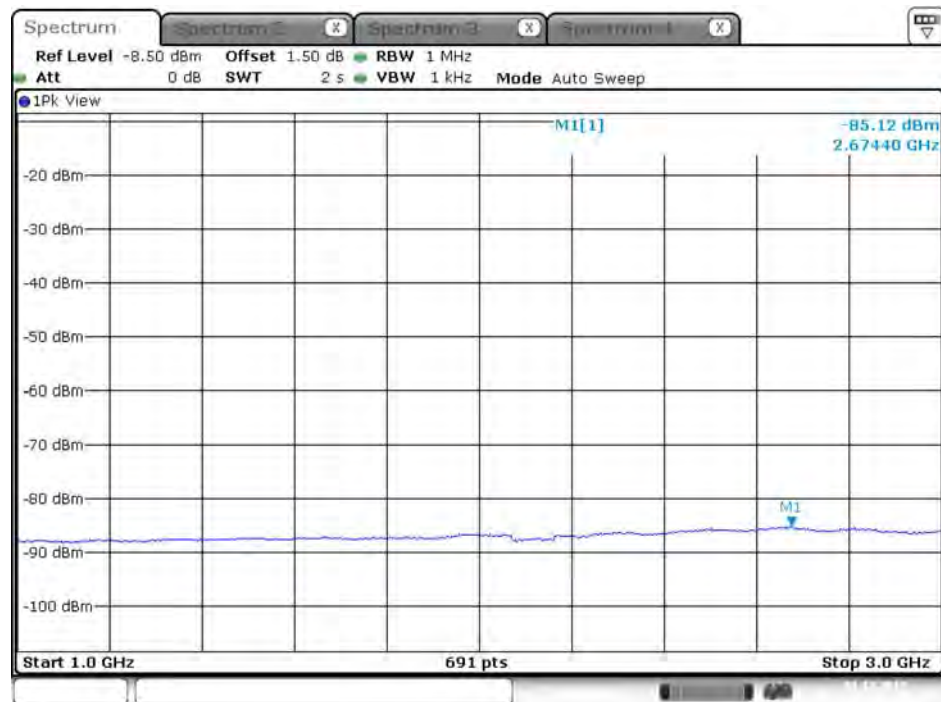
Date: 1.DEC.2017 20:00:37

Plot on Configuration QPSK, 20M / 5580 MHz / Peak / Port 2 / 1GHz~3GHz



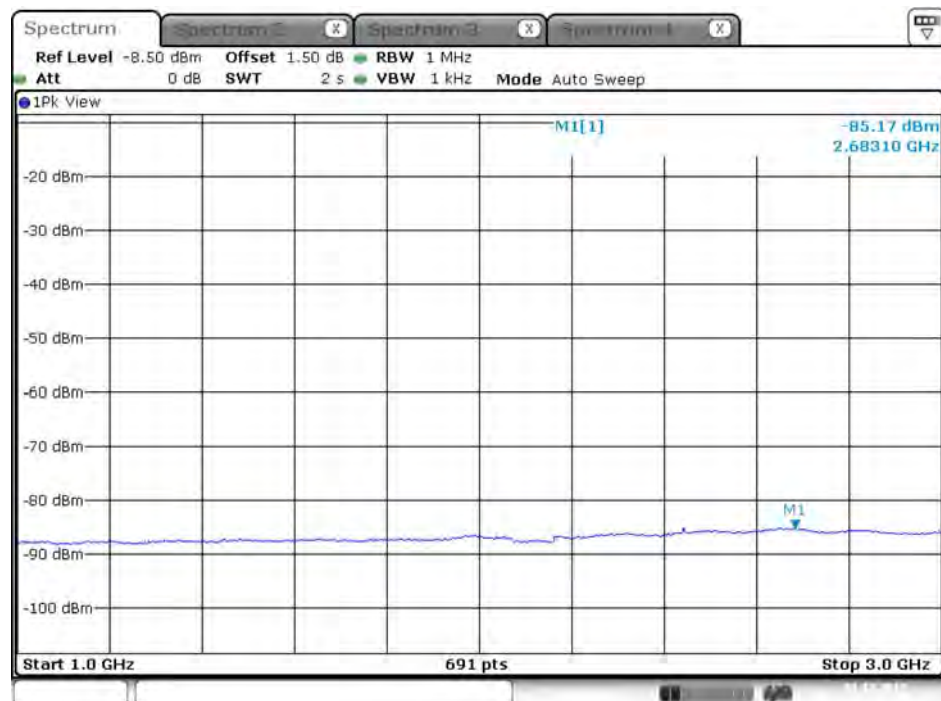
Date: 1.DEC.2017 20:24:20

Plot on Configuration QPSK, 20M / 5650 MHz / Average / Port 1 / 1GHz~3GHz



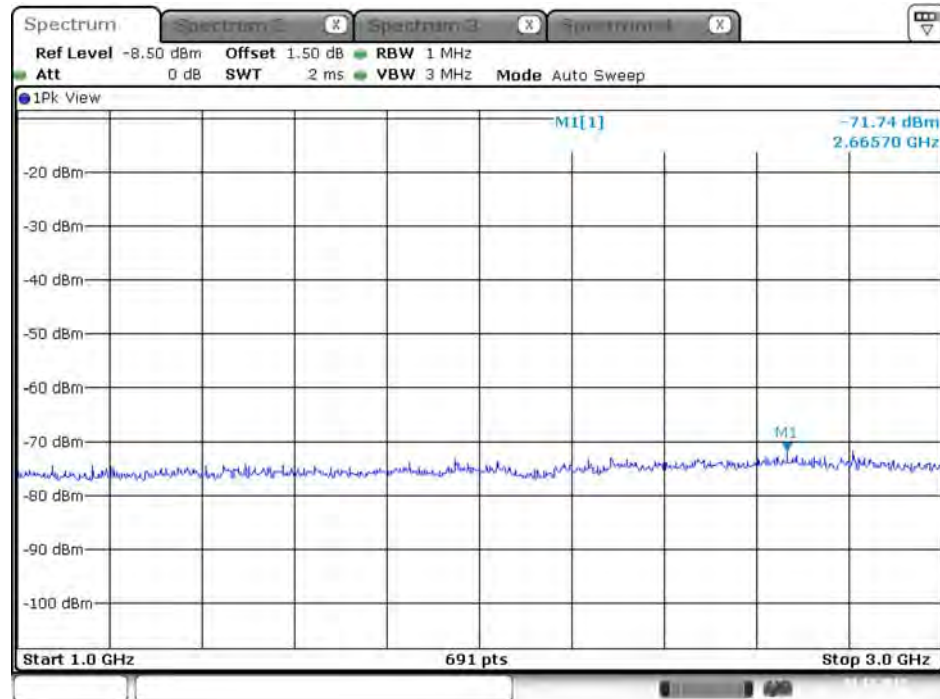
Date: 1.DEC.2017 20:34:18

Plot on Configuration QPSK, 20M / 5650 MHz / Average / Port 2 / 1GHz~3GHz



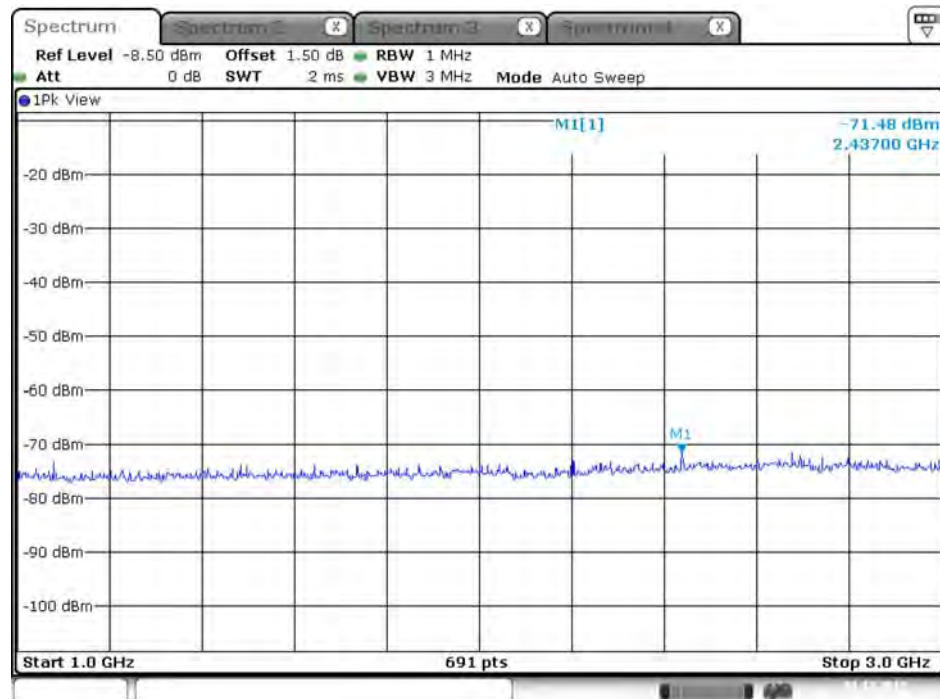
Date: 1.DEC.2017 20:57:20

Plot on Configuration QPSK, 20M / 5650 MHz / Peak / Port 1 / 1GHz~3GHz



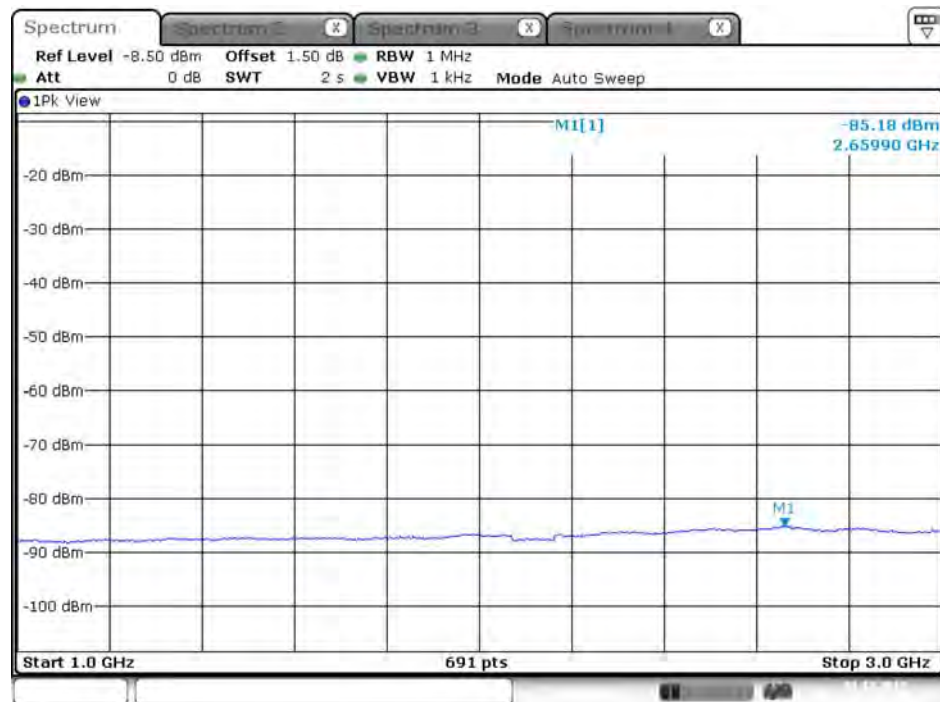
Date: 1.DEC.2017 20:34:48

Plot on Configuration QPSK, 20M / 5650 MHz / Peak / Port 2 / 1GHz~3GHz



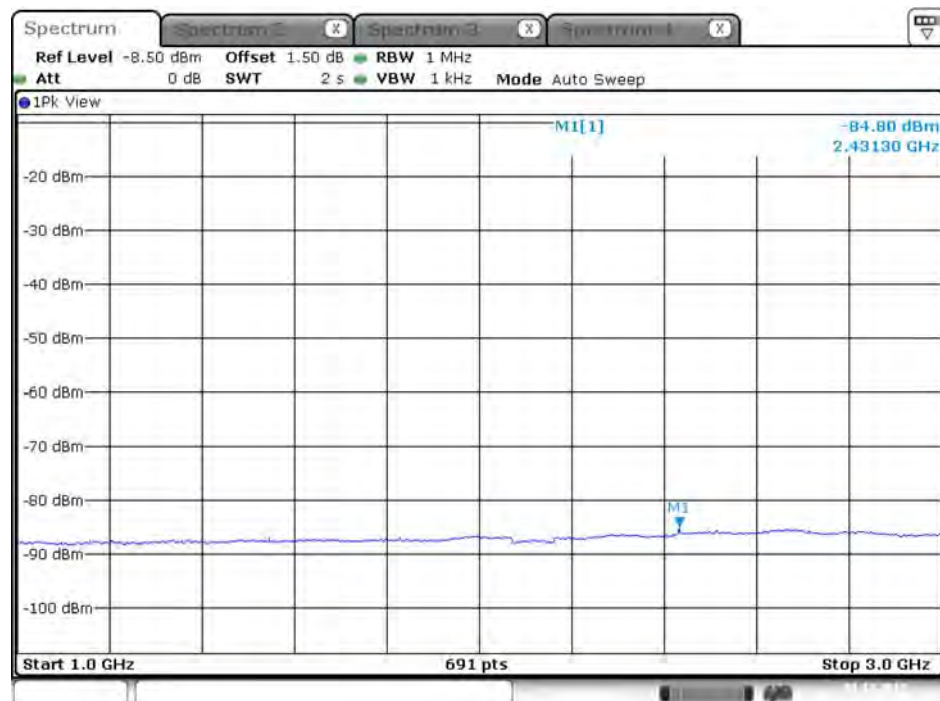
Date: 1.DEC.2017 20:57:49

Plot on Configuration QPSK, 20M / 5720 MHz / Average / Port 1 / 1GHz~3GHz



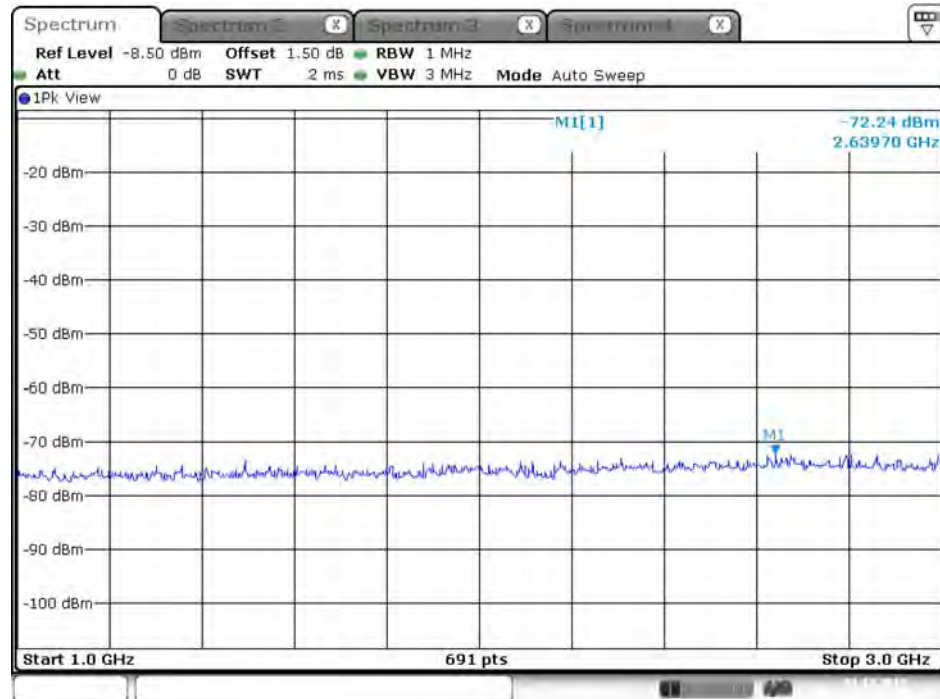
Date: 1.DEC.2017 21:05:54

Plot on Configuration QPSK, 20M / 5720 MHz / Average / Port 2 / 1GHz~3GHz



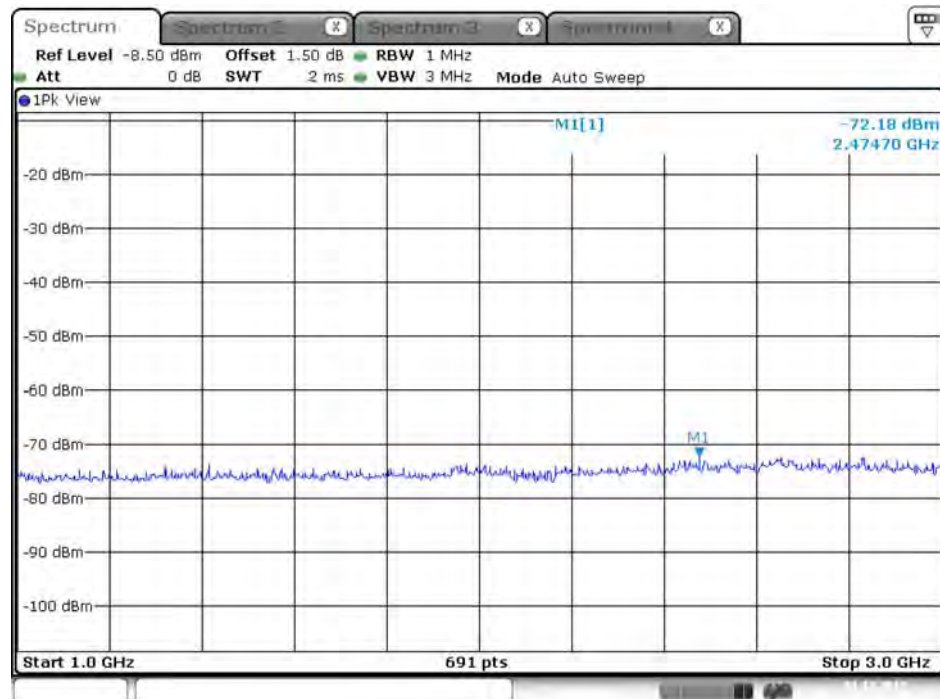
Date: 1.DEC.2017 21:33:53

Plot on Configuration QPSK, 20M / 5720 MHz / Peak / Port 1 / 1GHz~3GHz



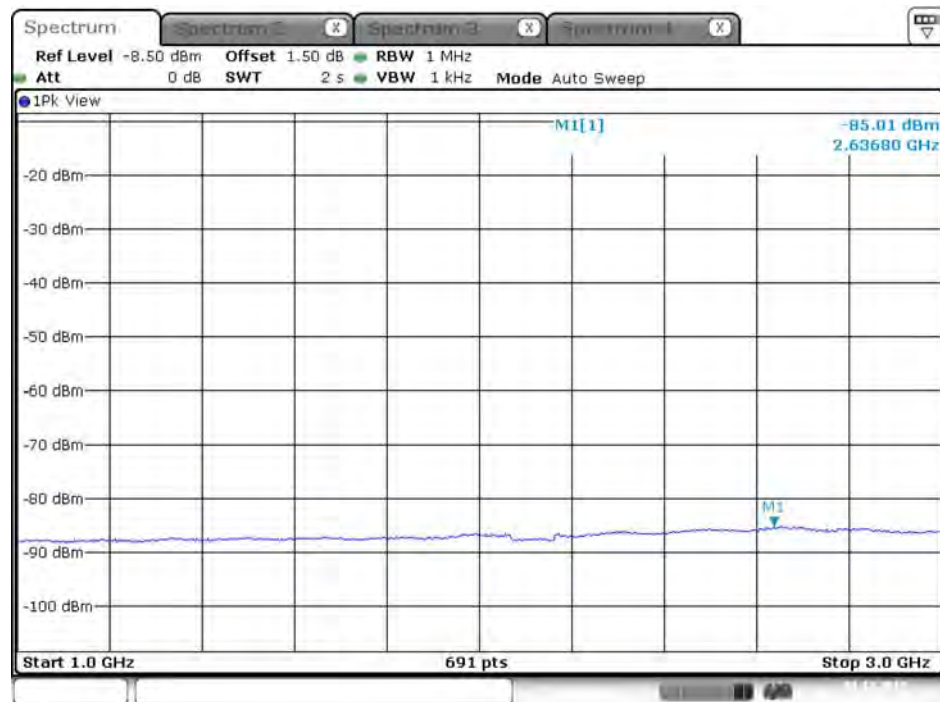
Date: 1.DEC.2017 21:08:34

Plot on Configuration QPSK, 20M / 5720 MHz / Peak / Port 2 / 1GHz~3GHz



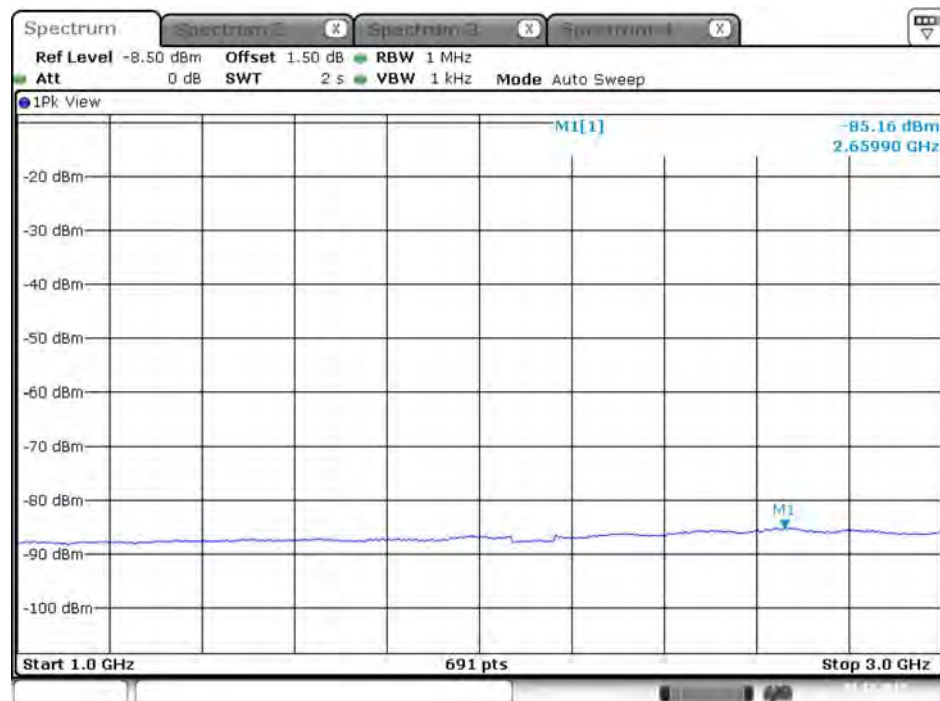
Date: 1.DEC.2017 21:34:18

Plot on Configuration QPSK, 80M / 5520 MHz / Average / Port 1 / 1GHz~3GHz



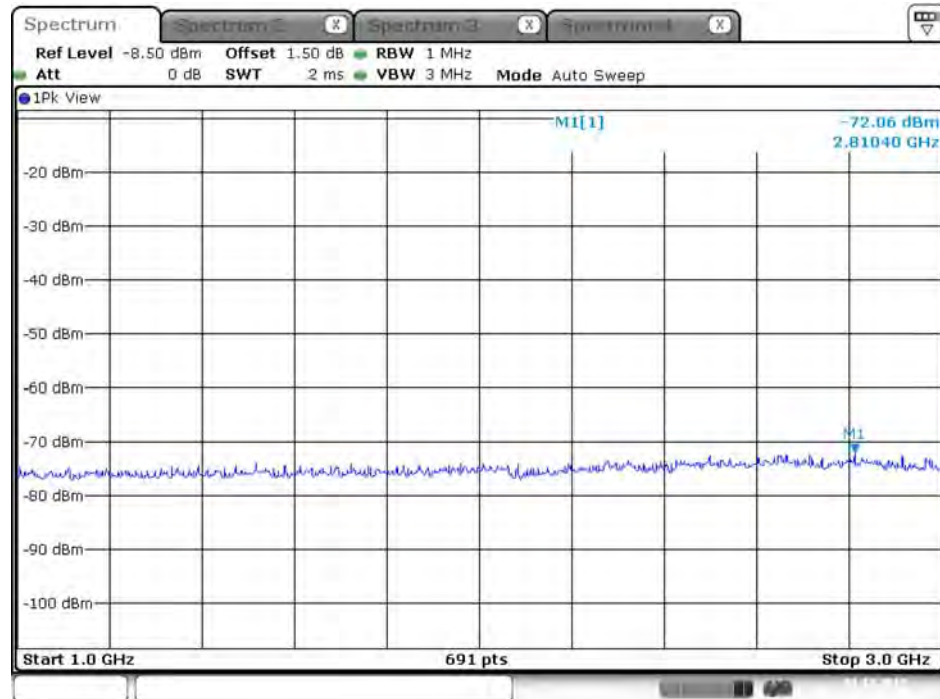
Date: 1.DEC.2017 21:55:38

Plot on Configuration QPSK, 80M / 5520 MHz / Average / Port 2 / 1GHz~3GHz



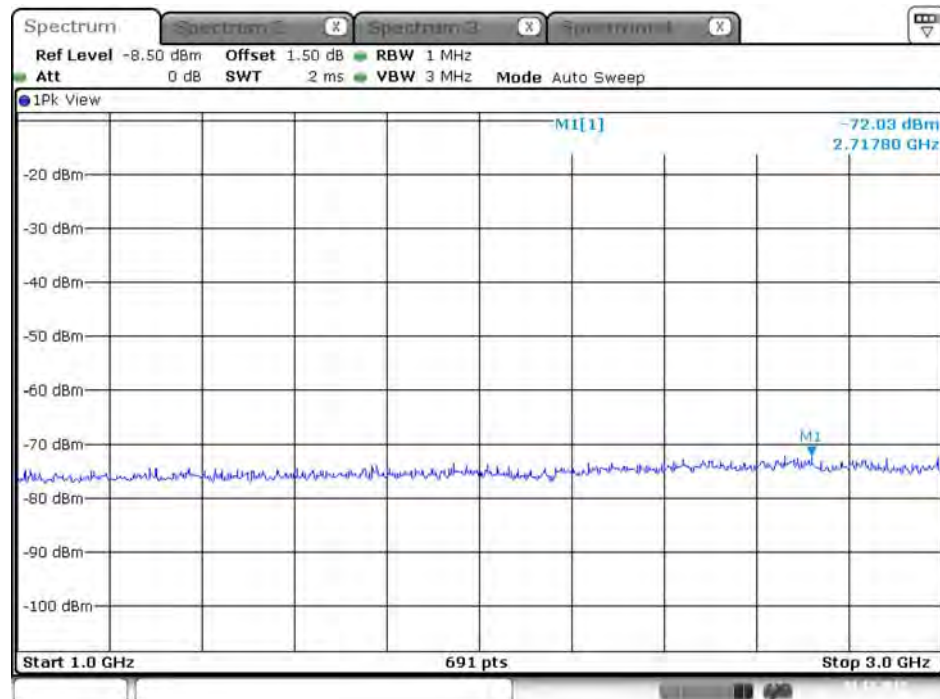
Date: 1.DEC.2017 22:17:27

Plot on Configuration QPSK, 80M / 5520 MHz / Peak / Port 1 / 1GHz~3GHz



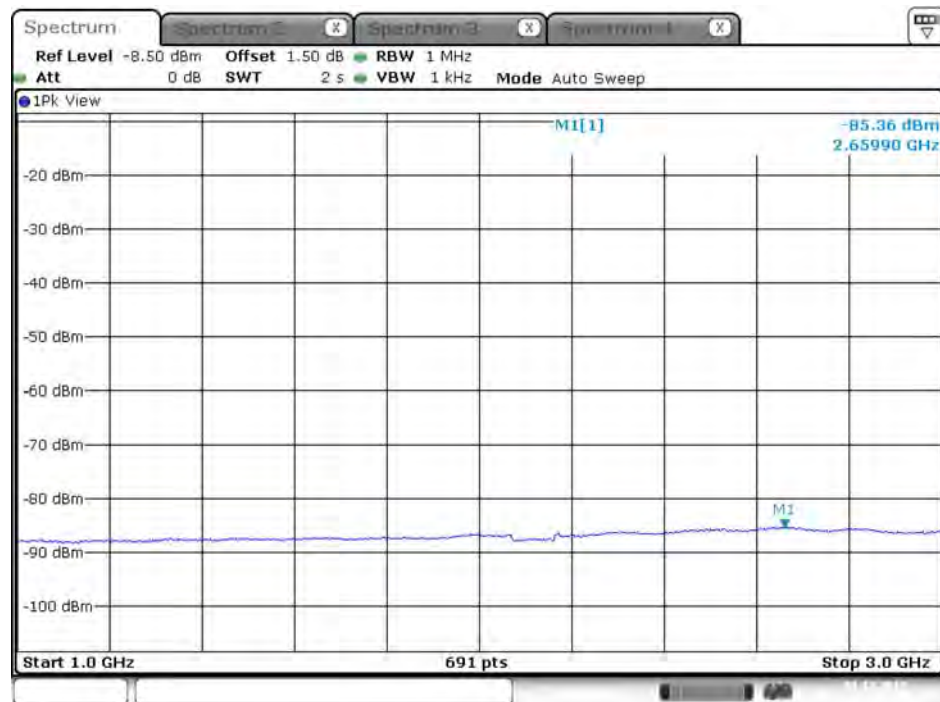
Date: 1.DEC.2017 21:58:05

Plot on Configuration QPSK, 80M / 5520 MHz / Peak / Port 2 / 1GHz~3GHz



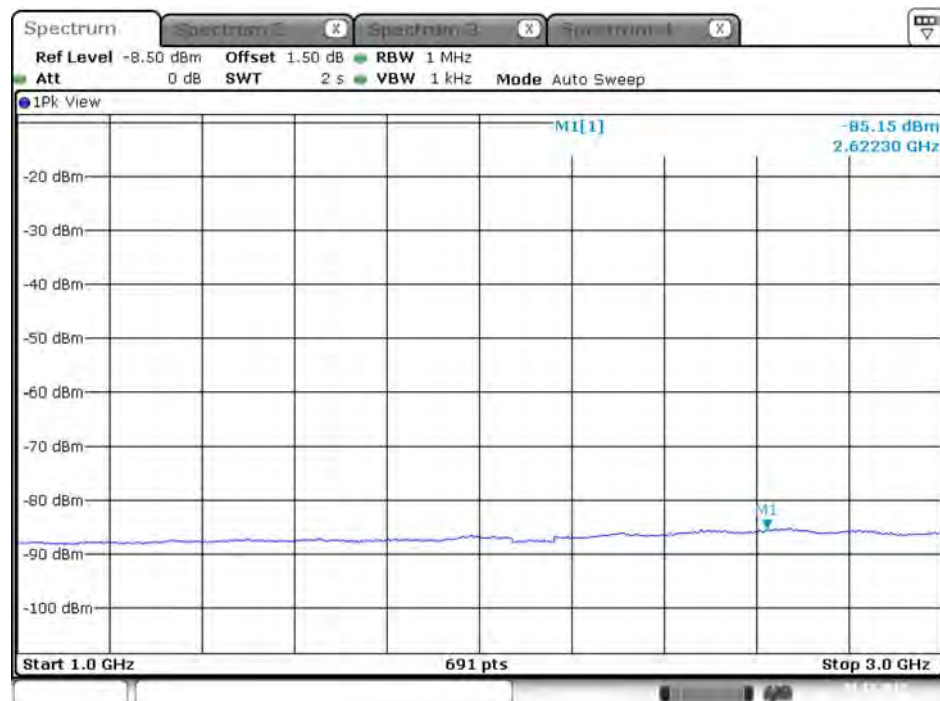
Date: 1.DEC.2017 22:17:56

Plot on Configuration QPSK, 80M / 5610 MHz / Average / Port 1 / 1GHz~3GHz



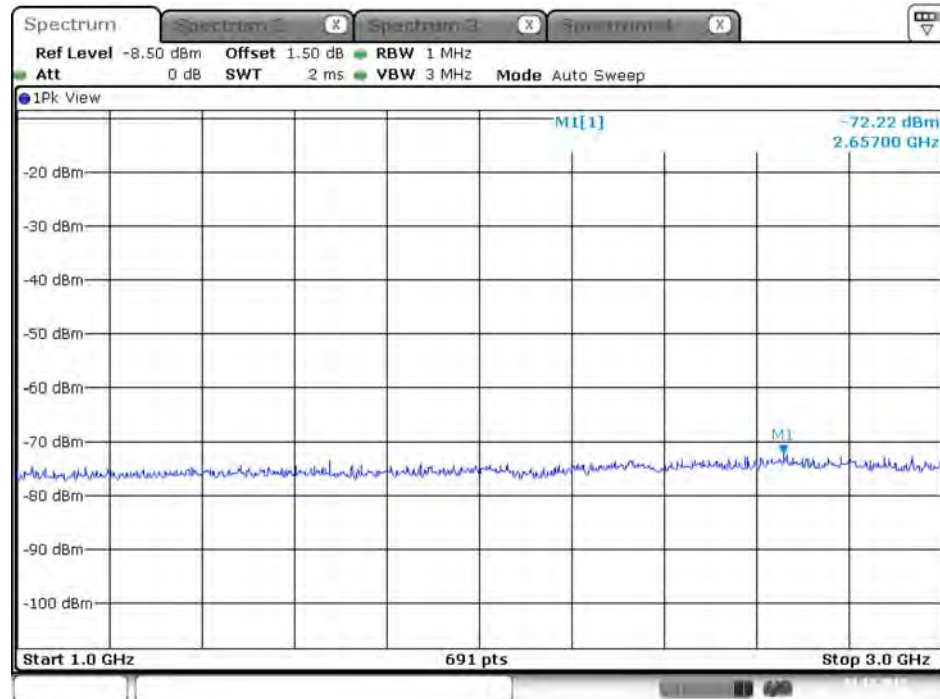
Date: 1.DEC.2017 22:31:25

Plot on Configuration QPSK, 80M / 5610 MHz / Average / Port 2 / 1GHz~3GHz



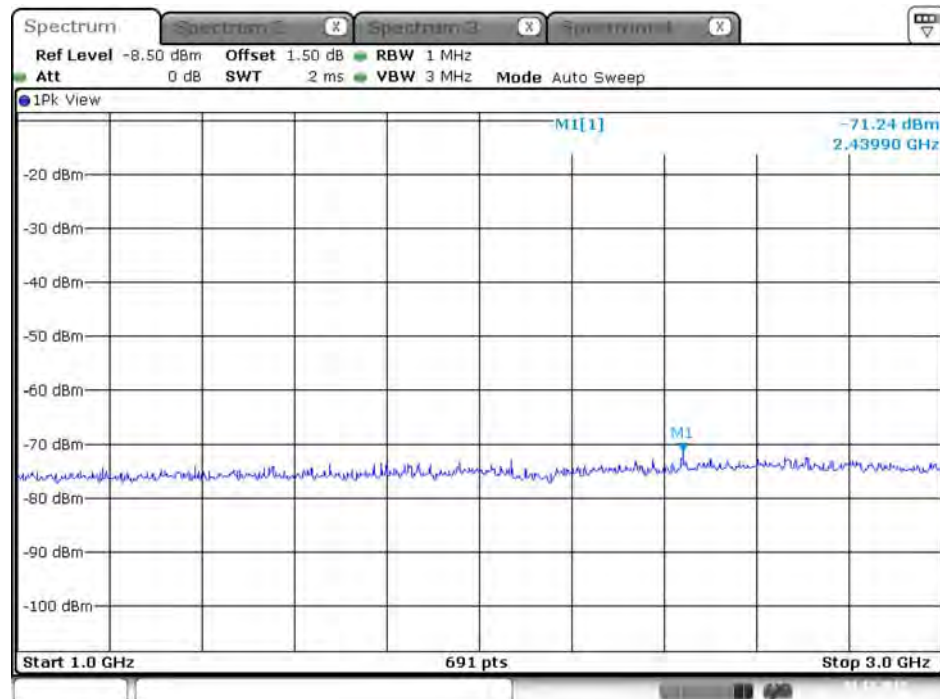
Date: 1.DEC.2017 22:59:03

Plot on Configuration QPSK, 80M / 5610 MHz / Peak / Port 1 / 1GHz~3GHz



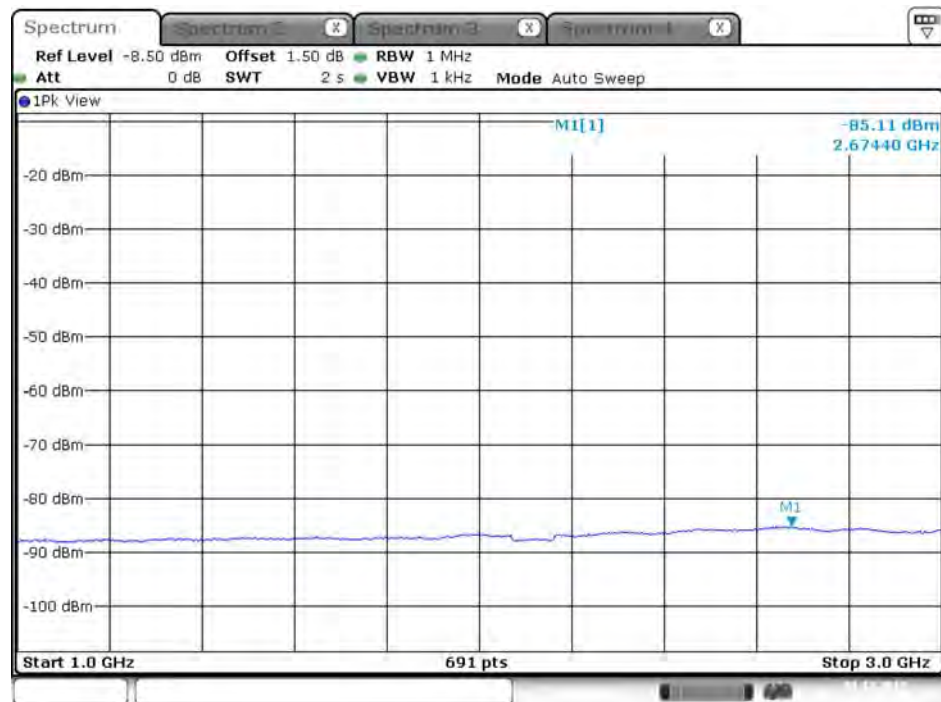
Date: 1.DEC.2017 22:32:03

Plot on Configuration QPSK, 80M / 5610 MHz / Peak / Port 2 / 1GHz~3GHz



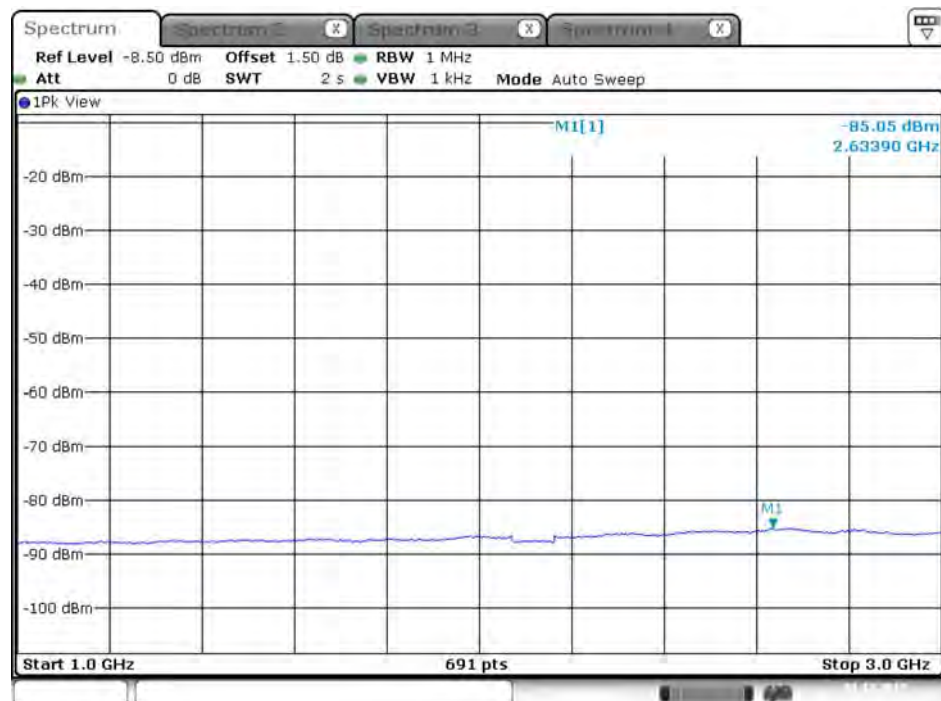
Date: 1.DEC.2017 22:59:38

Plot on Configuration QPSK, 80M / 5650 MHz / Average / Port 1 / 1GHz~3GHz



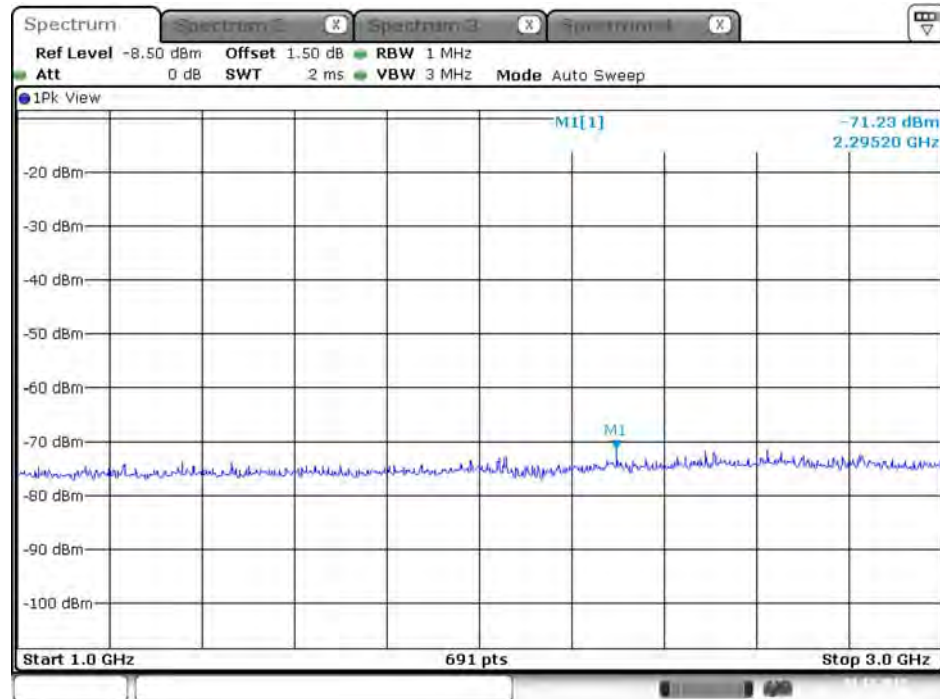
Date: 1.DEC.2017 23:05:13

Plot on Configuration QPSK, 80M / 5650 MHz / Average / Port 2 / 1GHz~3GHz



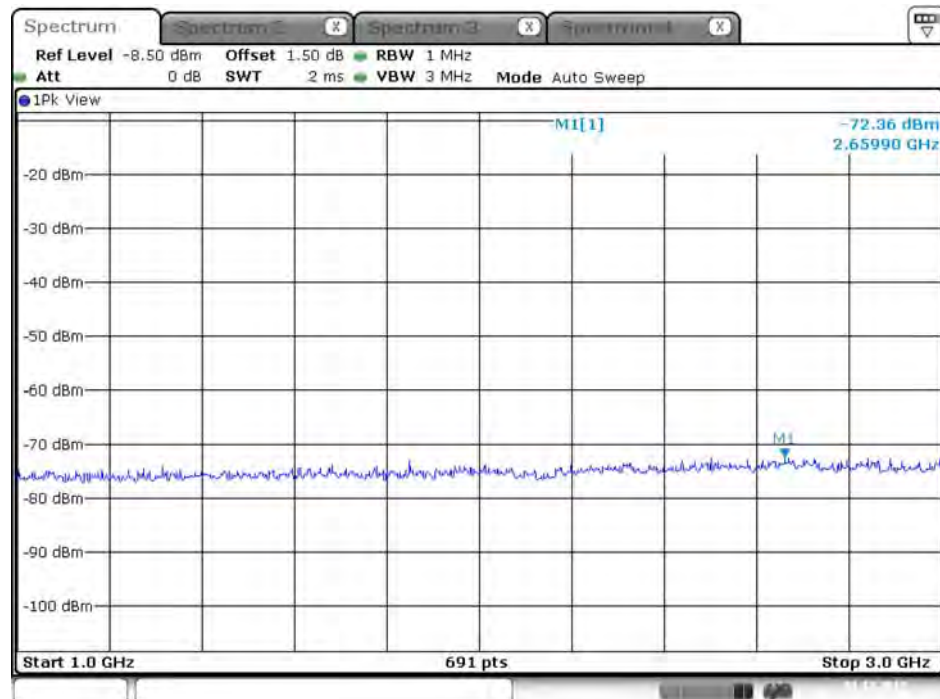
Date: 1.DEC.2017 23:26:42

Plot on Configuration QPSK, 80M / 5650 MHz / Peak / Port 1 / 1GHz~3GHz



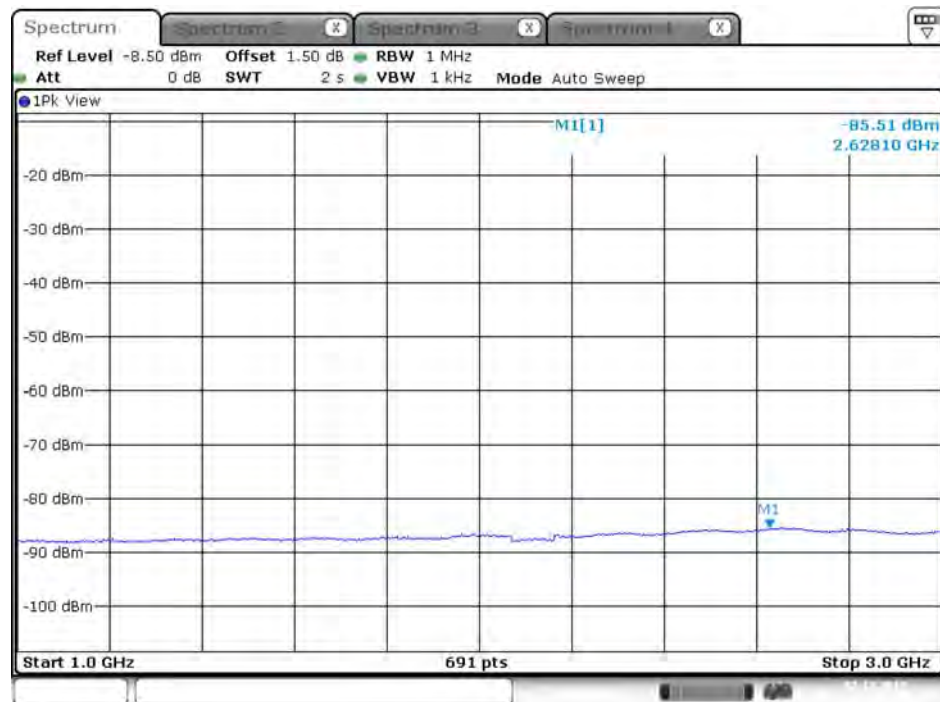
Date: 1.DEC.2017 23:05:40

Plot on Configuration QPSK, 80M / 5650 MHz / Peak / Port 2 / 1GHz~3GHz



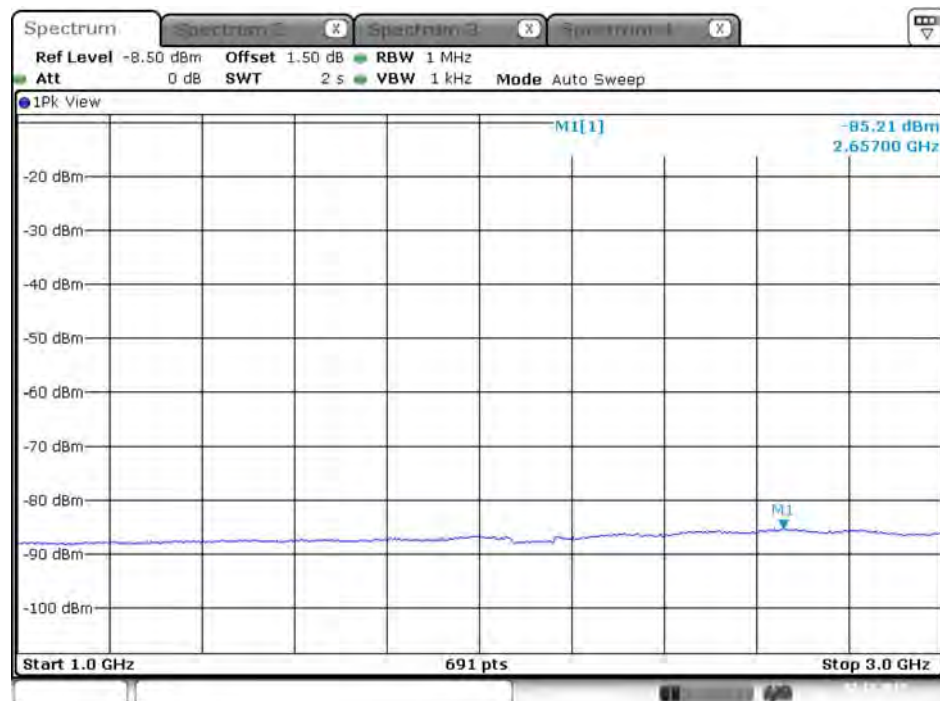
Date: 1.DEC.2017 23:27:10

Plot on Configuration QPSK, 80M / 5720 MHz / Average / Port 1 / 1GHz~3GHz



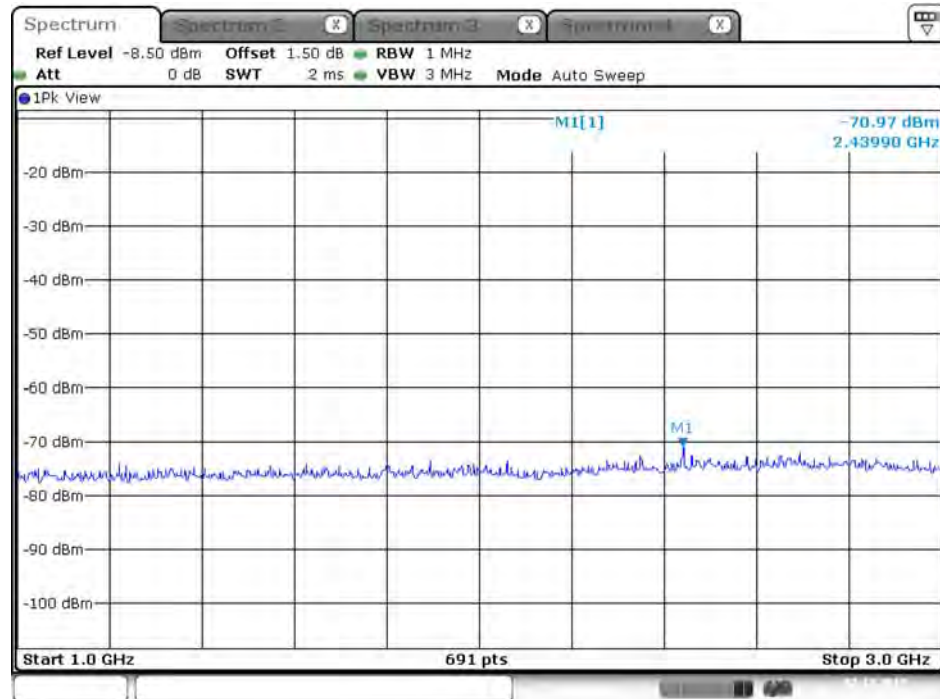
Date: 2.DEC.2017 00:32:40

Plot on Configuration QPSK, 80M / 5720 MHz / Average / Port 2 / 1GHz~3GHz



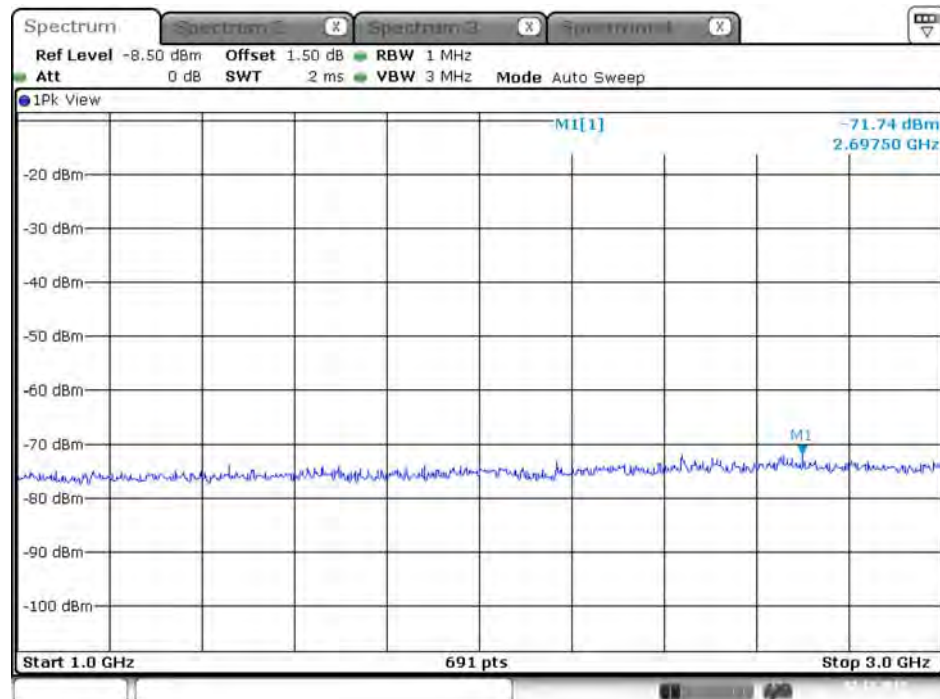
Date: 2.DEC.2017 00:54:47

Plot on Configuration QPSK, 80M / 5720 MHz / Peak / Port 1 / 1GHz~3GHz



Date: 2.DEC.2017 00:34:03

Plot on Configuration QPSK, 80M / 5720 MHz / Peak / Port 2 / 1GHz~3GHz



Date: 2.DEC.2017 00:55:33

Plot on Configuration QPSK, 20M / 5260 MHz / Average / Port 1 / 3GHz~6GHz



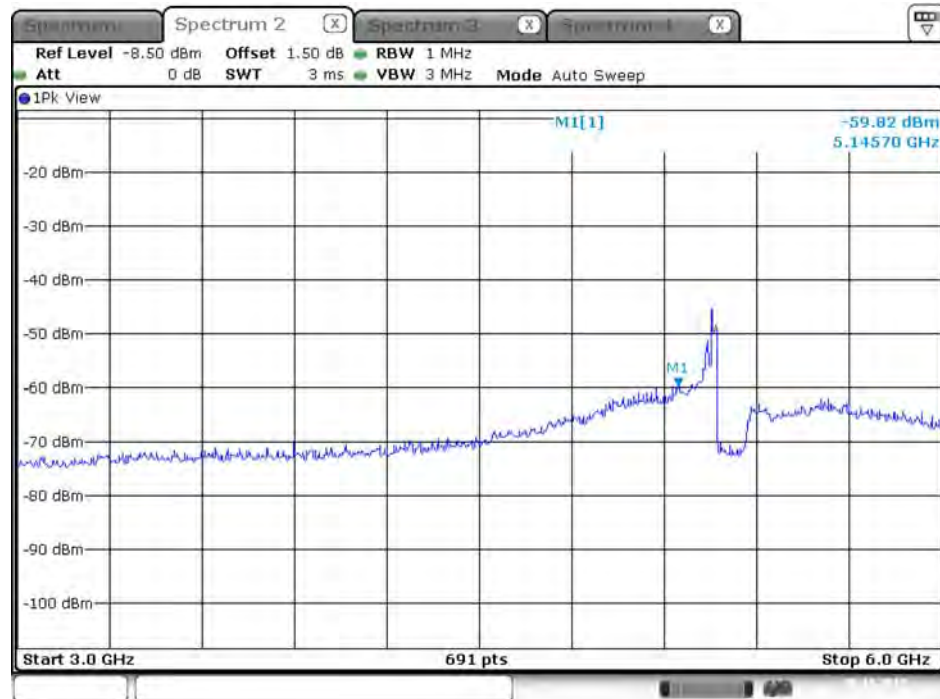
Date: 28.NOV.2017 00:27:17

Plot on Configuration QPSK, 20M / 5260 MHz / Average / Port 2 / 3GHz~6GHz



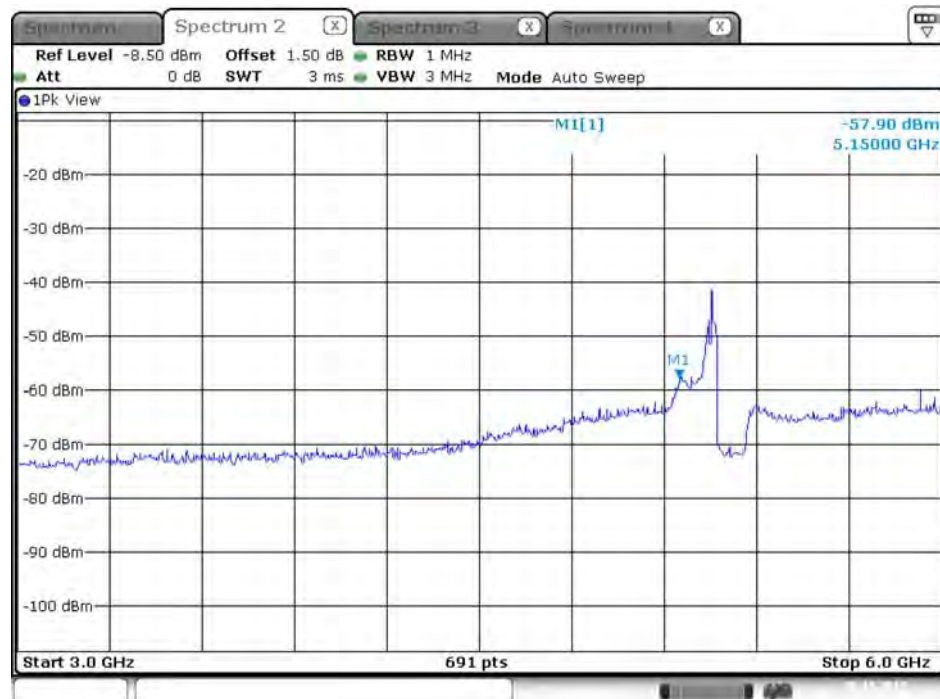
Date: 28.NOV.2017 00:51:52

Plot on Configuration QPSK, 20M / 5260 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 28.NOV.2017 00:28:44

Plot on Configuration QPSK, 20M / 5260 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 28.NOV.2017 00:52:55

Plot on Configuration QPSK, 20M / 5300 MHz / Average / Port 1 / 3GHz~6GHz



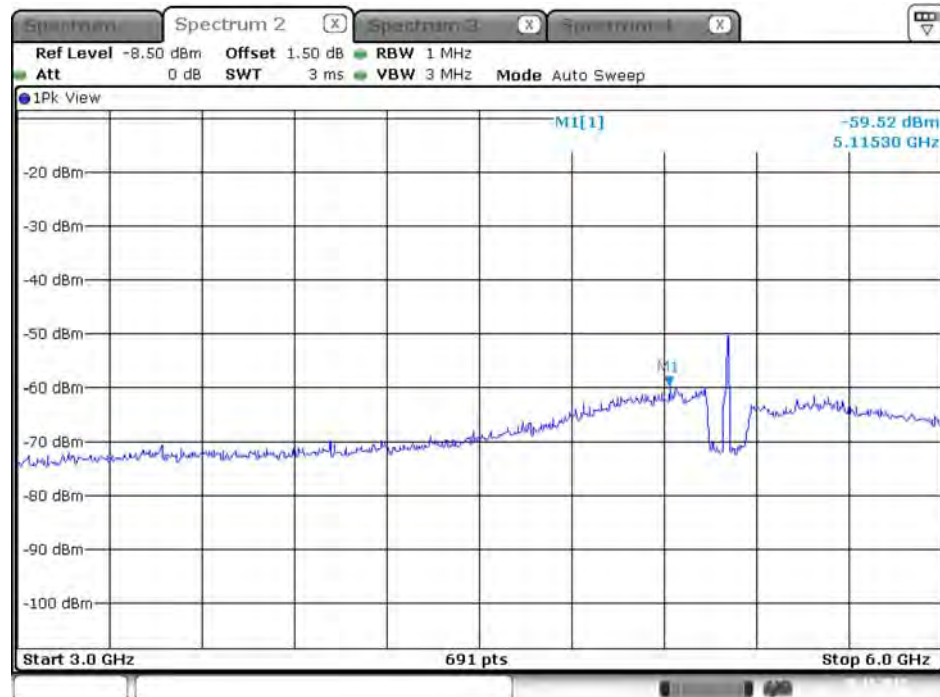
Date: 28.NOV.2017 01:01:34

Plot on Configuration QPSK, 20M / 5300 MHz / Average / Port 2 / 3GHz~6GHz



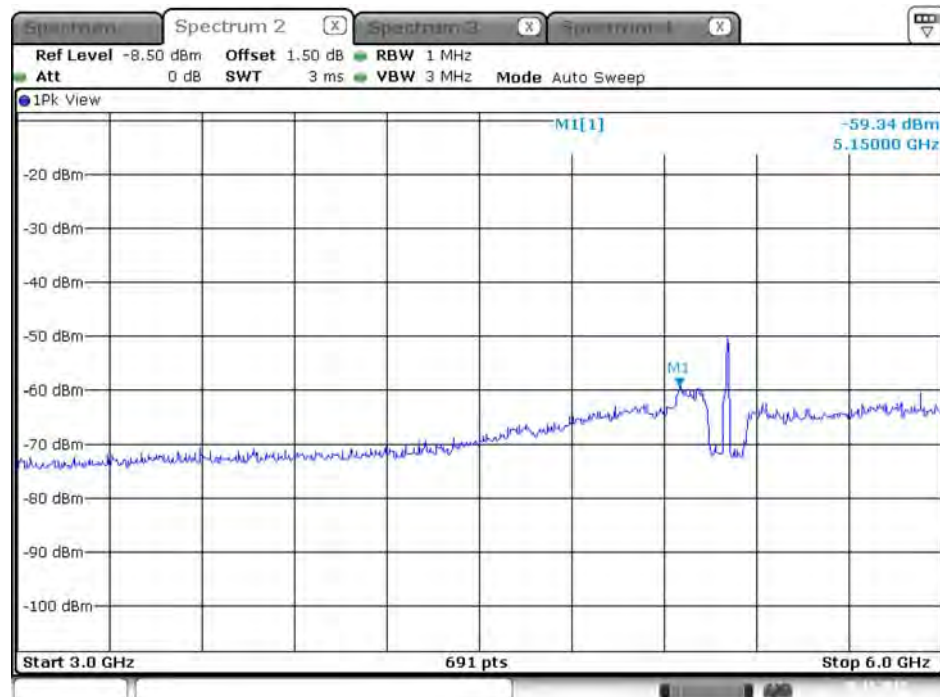
Date: 28.NOV.2017 01:16:02

Plot on Configuration QPSK, 20M / 5300 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 28.NOV.2017 01:02:29

Plot on Configuration QPSK, 20M / 5300 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 28.NOV.2017 01:16:33

Plot on Configuration QPSK, 20M / 5320 MHz / Average / Port 1 / 3GHz~6GHz



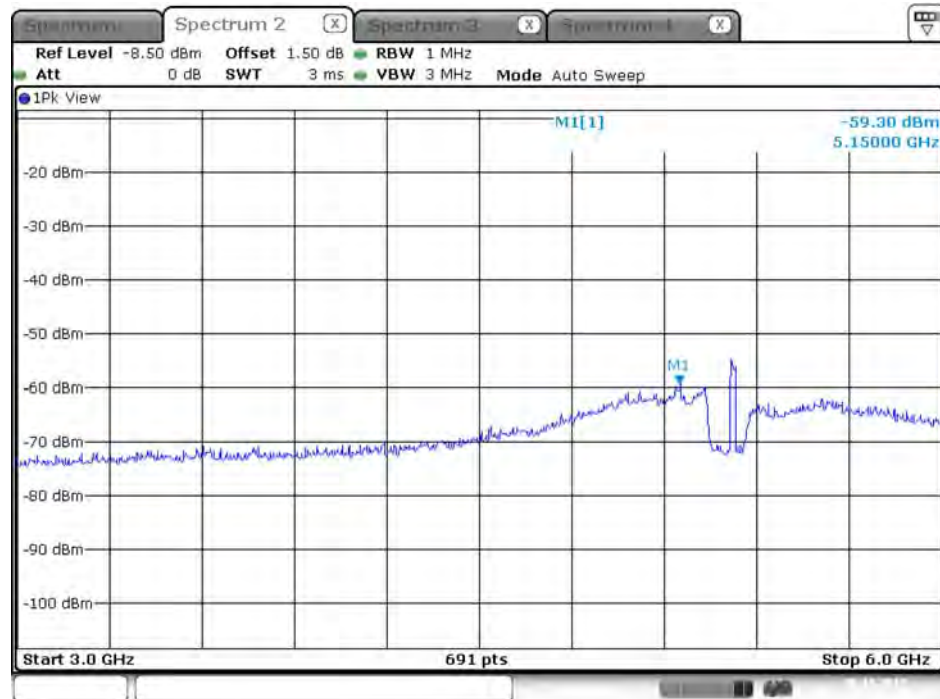
Date: 28.NOV.2017 01:23:31

Plot on Configuration QPSK, 20M / 5320 MHz / Average / Port 2 / 3GHz~6GHz



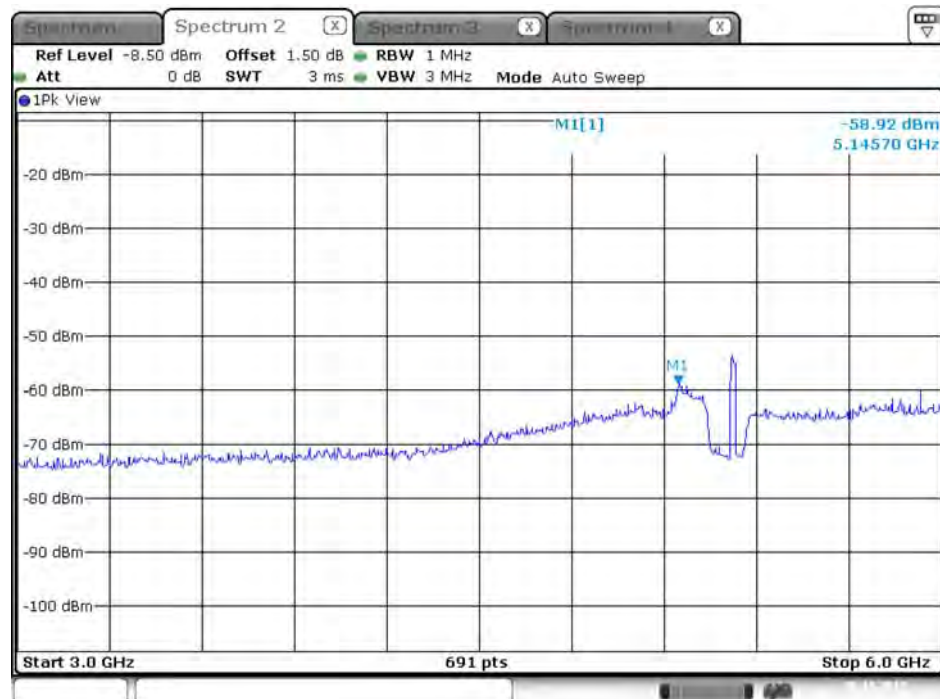
Date: 28.NOV.2017 01:37:43

Plot on Configuration QPSK, 20M / 5320 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 28.NOV.2017 01:24:18

Plot on Configuration QPSK, 20M / 5320 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 28.NOV.2017 01:38:37

Plot on Configuration QPSK, 20M / 5250 MHz / Average / Port 1 / 3GHz~6GHz



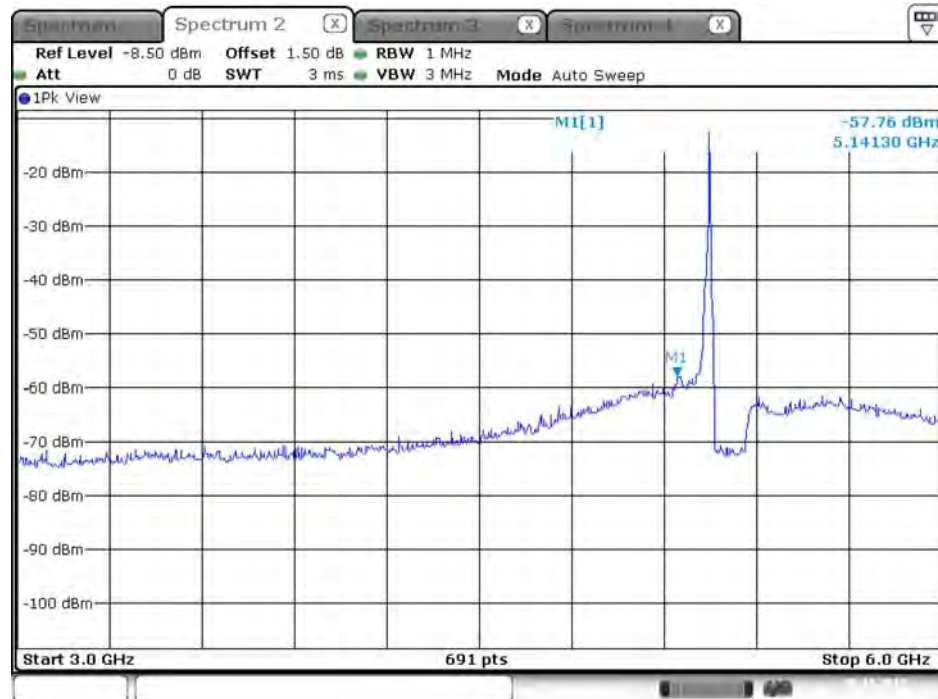
Date: 28 NOV. 2017 02:31:34

Plot on Configuration QPSK, 20M / 5250 MHz / Average / Port 2 / 3GHz~6GHz



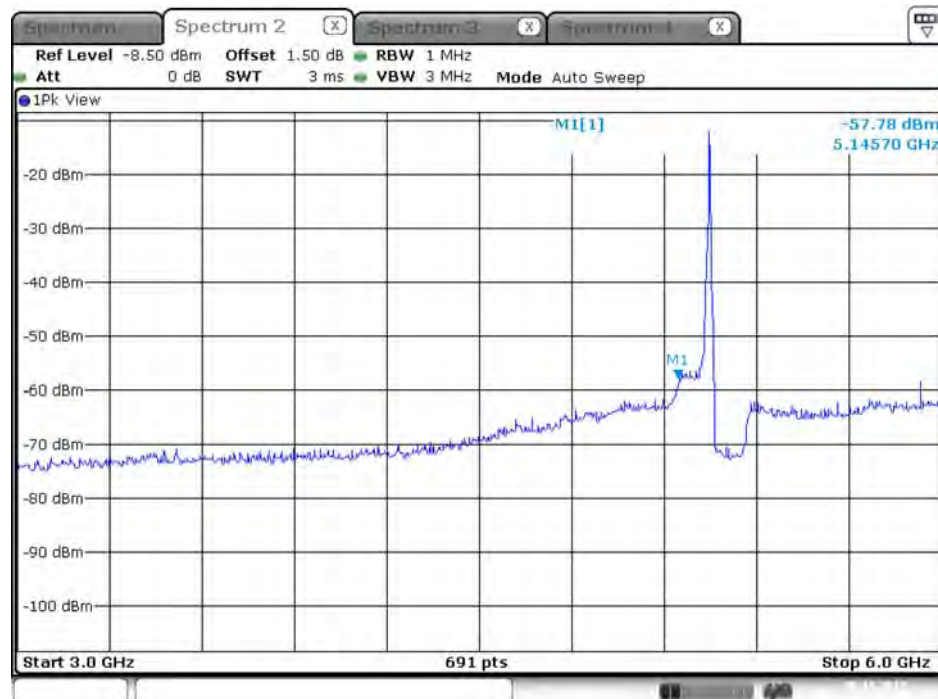
Date: 28 NOV. 2017 02:45:50

Plot on Configuration QPSK, 20M / 5250 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 28.NOV.2017 02:32:19

Plot on Configuration QPSK, 20M / 5250 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 28.NOV.2017 02:46:41

Plot on Configuration QPSK, 80M / 5290 MHz / Average / Port 1 / 3GHz~6GHz



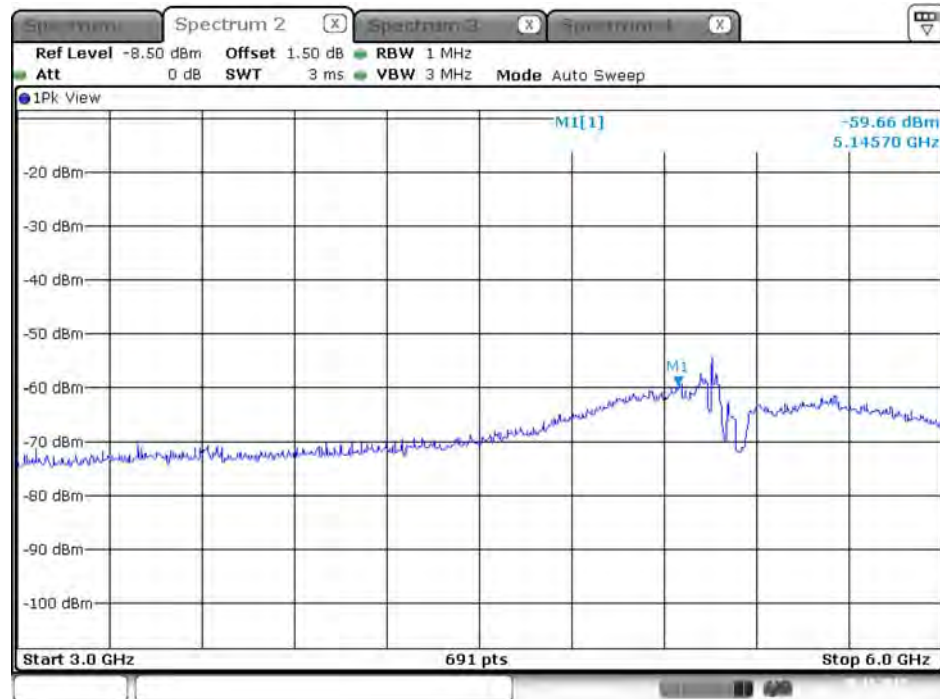
Date: 28 NOV 2017 01:46:45

Plot on Configuration QPSK, 80M / 5290 MHz / Average / Port 2 / 3GHz~6GHz



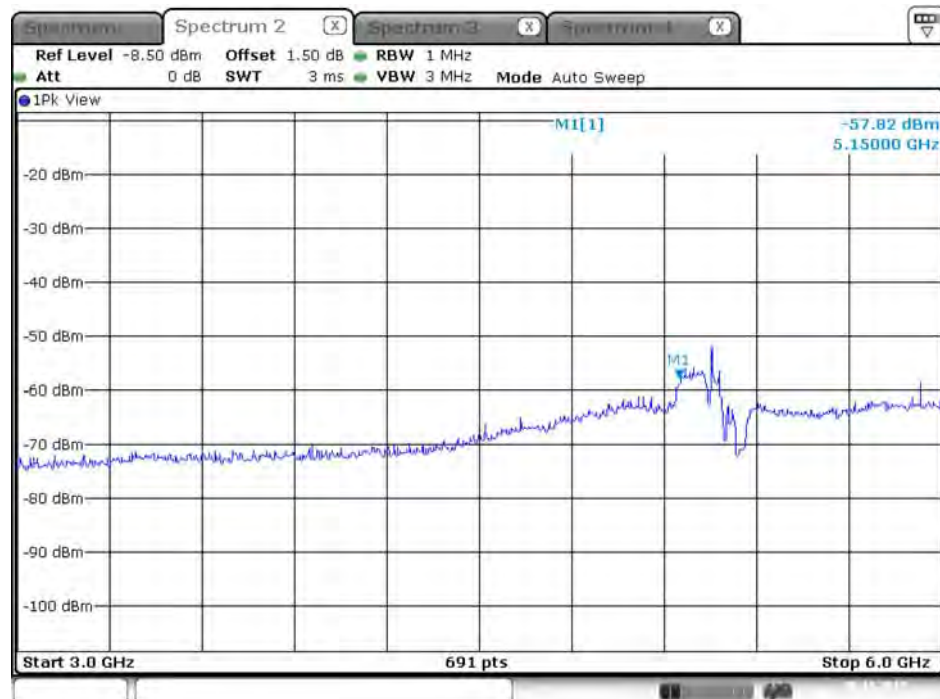
Date: 28 NOV 2017 02:03:25

Plot on Configuration QPSK, 80M / 5290 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 28.NOV.2017 01:47:53

Plot on Configuration QPSK, 80M / 5290 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 28.NOV.2017 02:04:18

Plot on Configuration QPSK, 80M / 5300 MHz / Average / Port 1 / 3GHz~6GHz



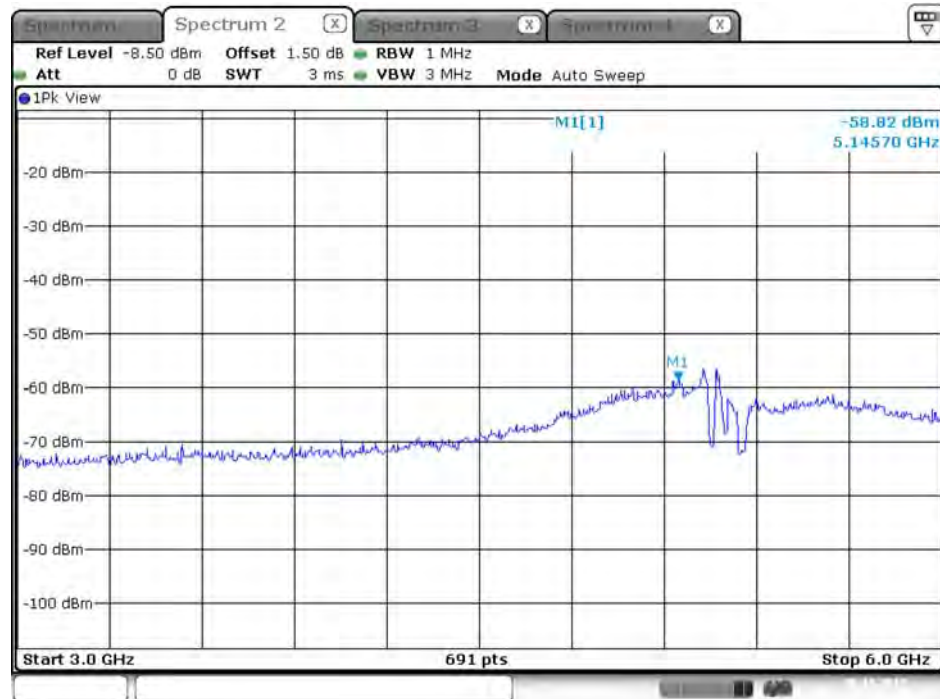
Date: 28 NOV. 2017 02:10:47

Plot on Configuration QPSK, 80M / 5300 MHz / Average / Port 2 / 3GHz~6GHz



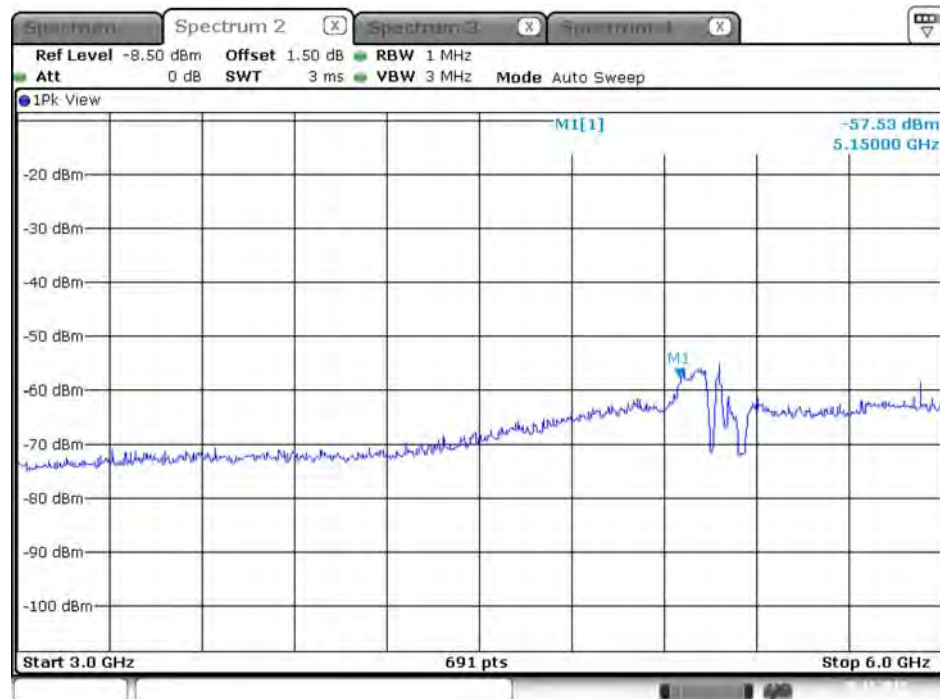
Date: 28 NOV. 2017 02:23:55

Plot on Configuration QPSK, 80M / 5300 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 28.NOV.2017 02:11:39

Plot on Configuration QPSK, 80M / 5300 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 28.NOV.2017 02:24:39

Plot on Configuration QPSK, 80M / 5250 MHz / Average / Port 1 / 3GHz~6GHz



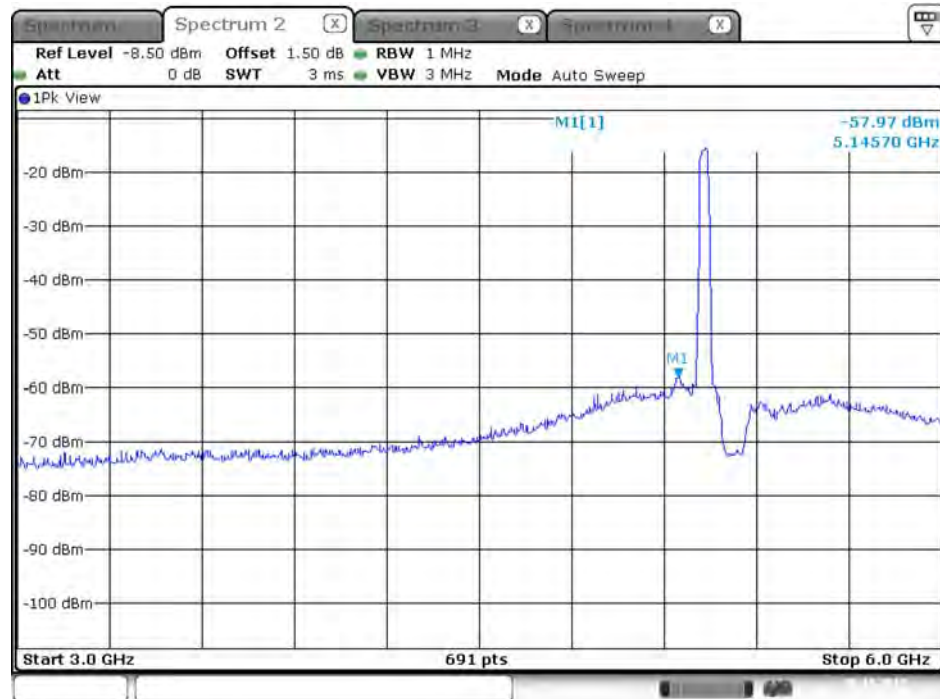
Date: 28 NOV. 2017 02:52:05

Plot on Configuration QPSK, 80M / 5250 MHz / Average / Port 2 / 3GHz~6GHz



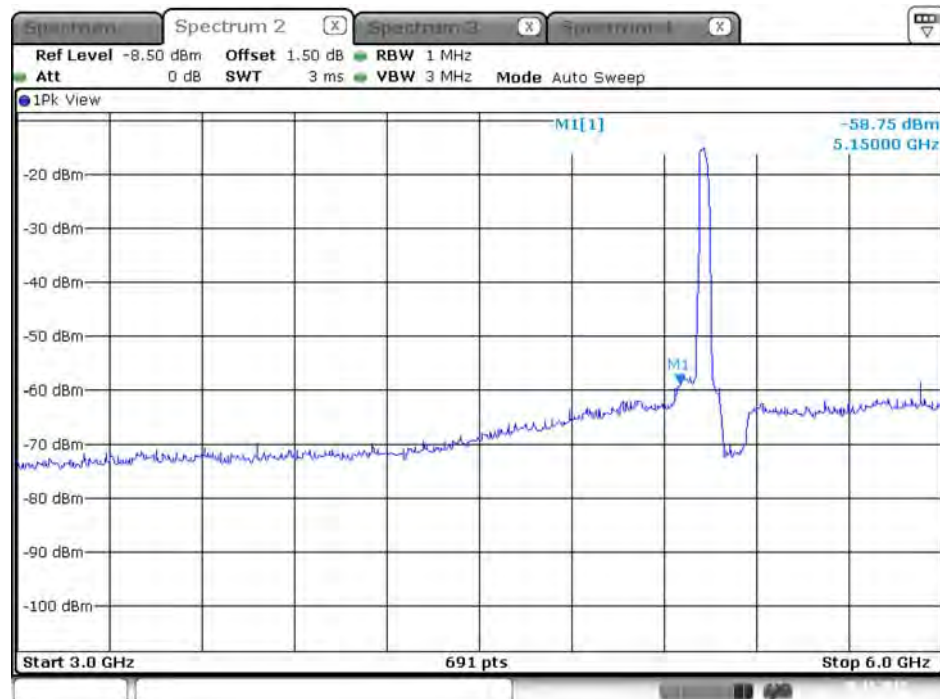
Date: 28 NOV. 2017 03:06:26

Plot on Configuration QPSK, 80M / 5250 MHz / Peak / Port 1 / 3GHz~6GHz



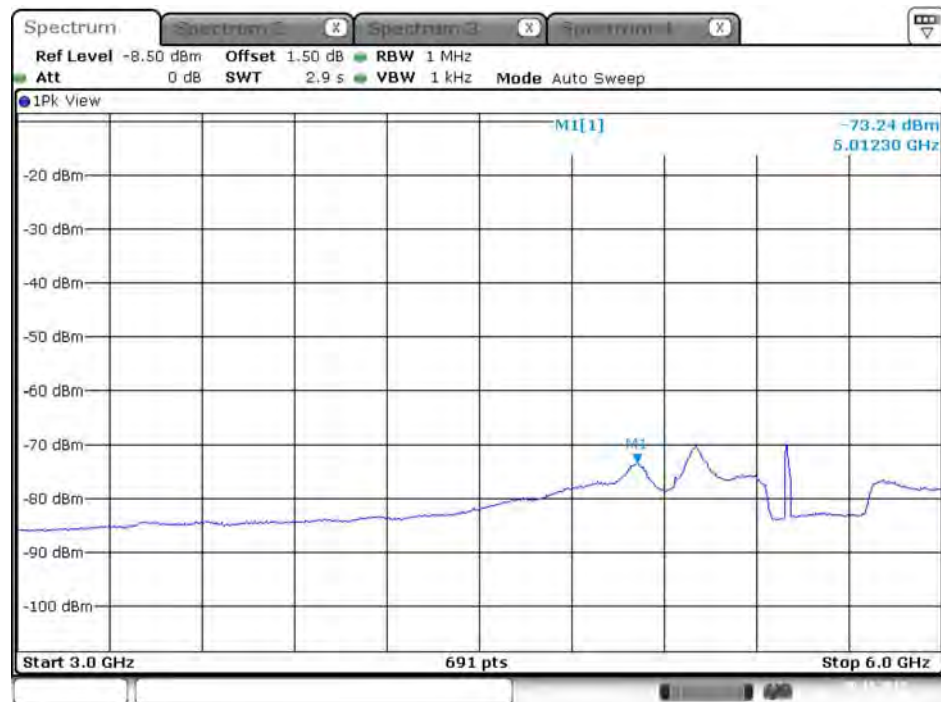
Date: 28.NOV.2017 02:52:57

Plot on Configuration QPSK, 80M / 5250 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 28.NOV.2017 03:07:44

Plot on Configuration QPSK, 20M / 5500 MHz / Average / Port 1 / 3GHz~6GHz



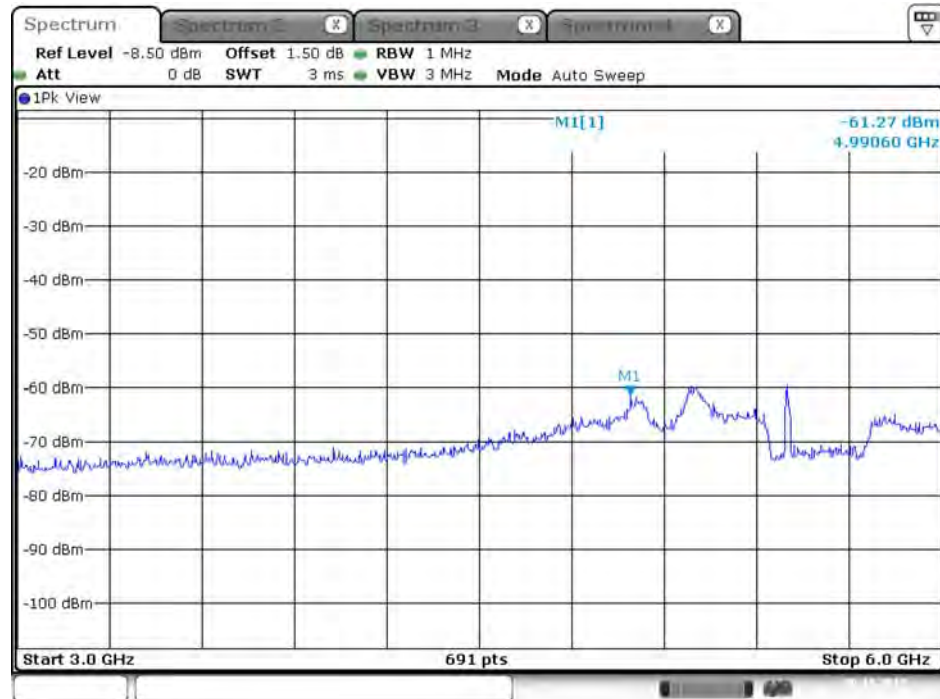
Date: 29.NOV.2017 17:40:32

Plot on Configuration QPSK, 20M / 5500 MHz / Average / Port 2 / 3GHz~6GHz



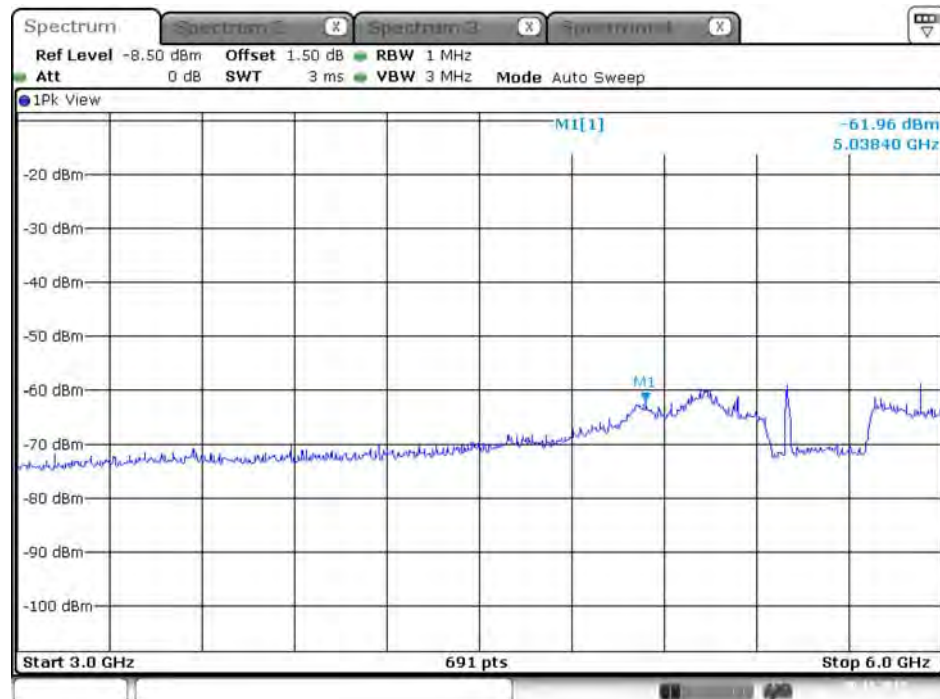
Date: 29.NOV.2017 17:23:13

Plot on Configuration QPSK, 20M / 5500 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 29.NOV.2017 17:41:34

Plot on Configuration QPSK, 20M / 5500 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 29.NOV.2017 17:28:46

Plot on Configuration QPSK, 20M / 5580 MHz / Average / Port 1 / 3GHz~6GHz



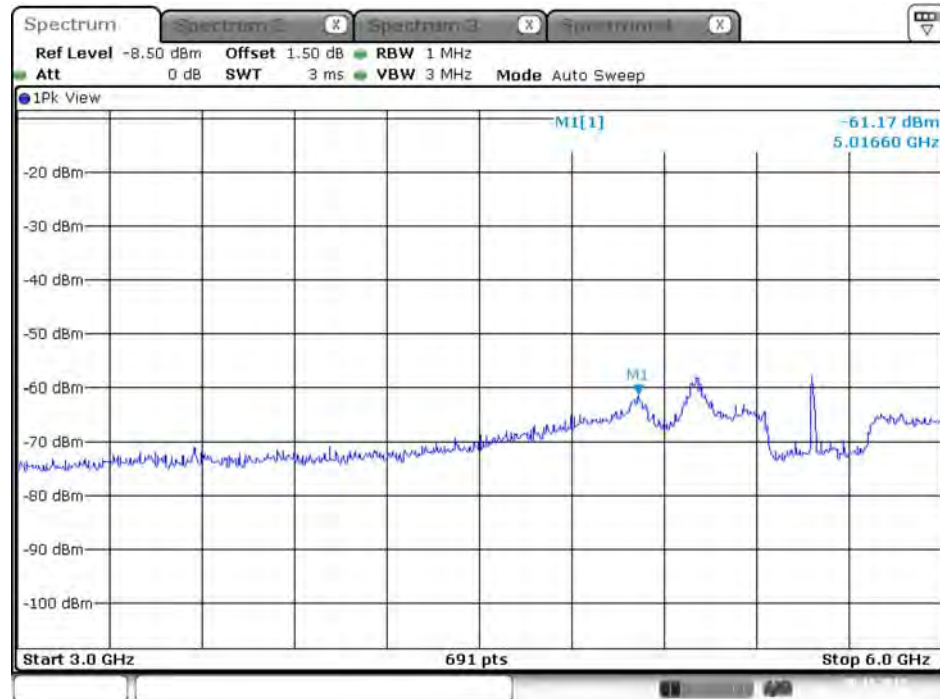
Date: 29.NOV.2017 17:46:26

Plot on Configuration QPSK, 20M / 5580 MHz / Average / Port 2 / 3GHz~6GHz



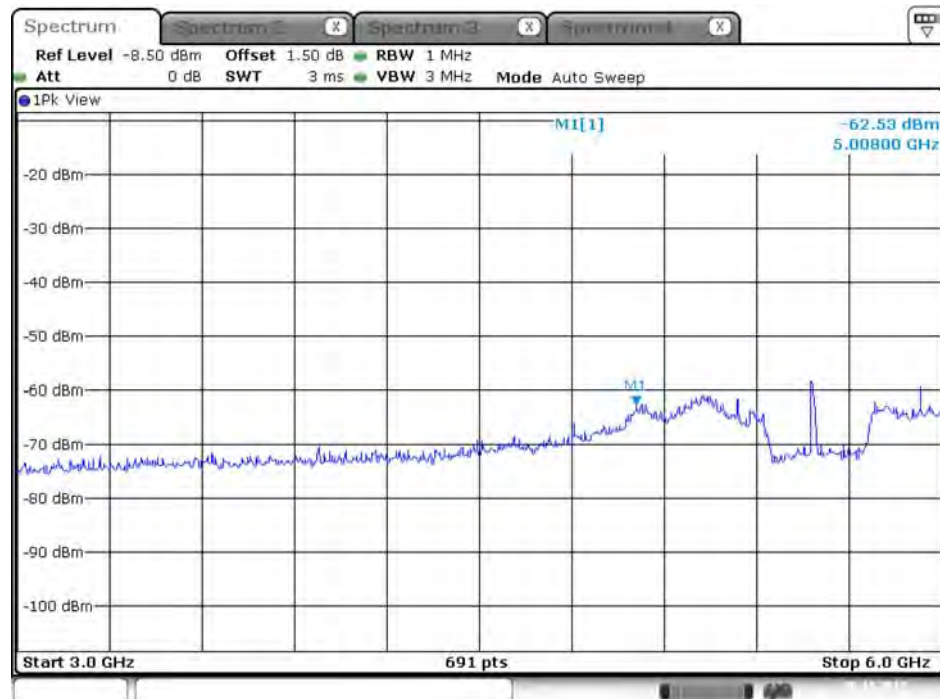
Date: 29.NOV.2017 17:48:41

Plot on Configuration QPSK, 20M / 5580 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 29.NOV.2017 17:46:50

Plot on Configuration QPSK, 20M / 5580 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 29.NOV.2017 17:49:12

Plot on Configuration QPSK, 20M / 5650 MHz / Average / Port 1 / 3GHz~6GHz



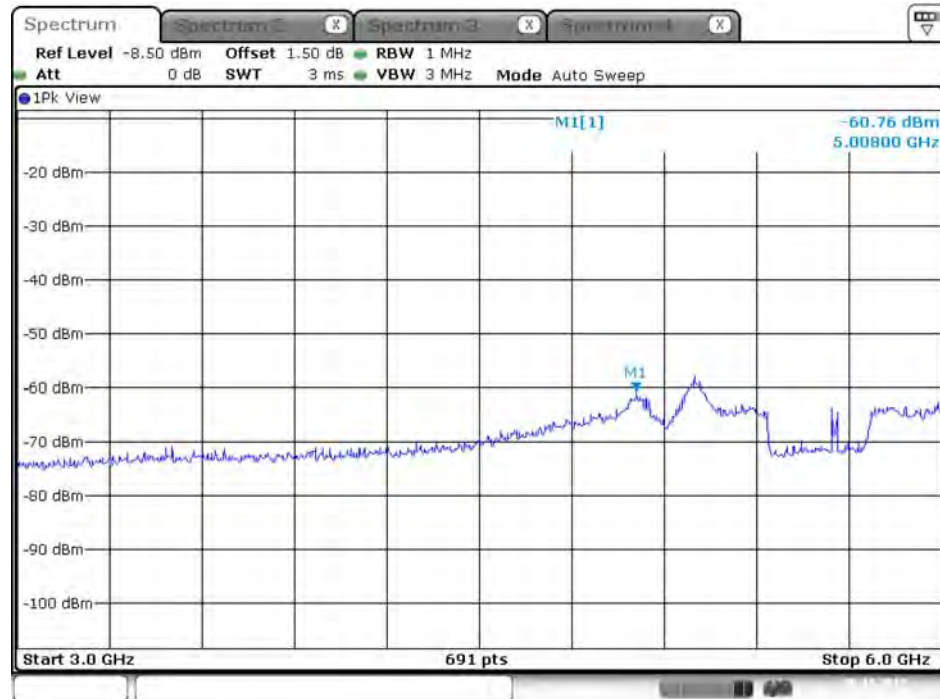
Date: 29.NOV.2017 17:52:51

Plot on Configuration QPSK, 20M / 5650 MHz / Average / Port 2 / 3GHz~6GHz



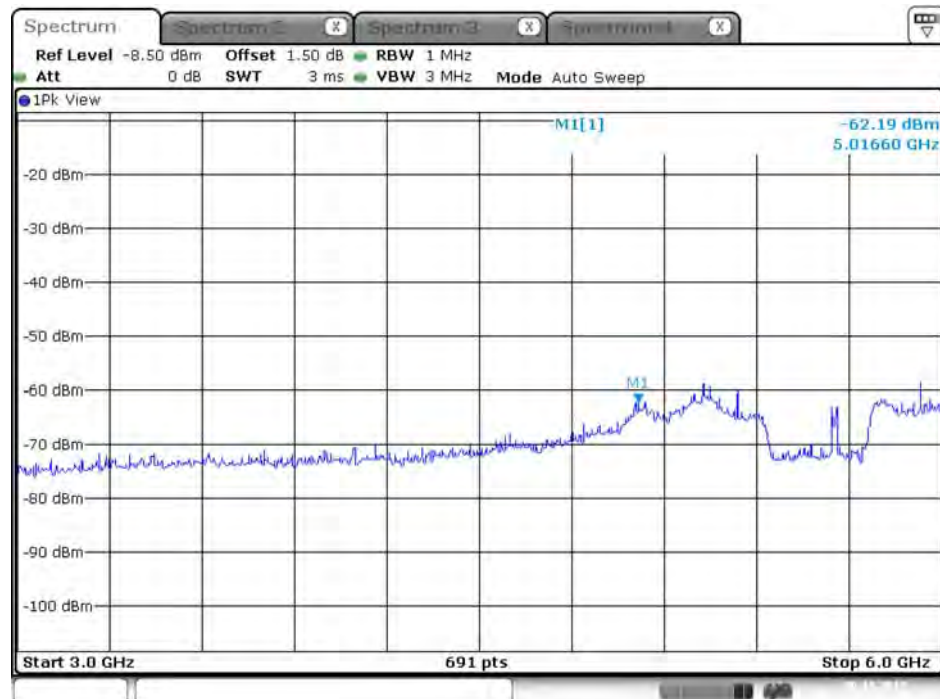
Date: 29.NOV.2017 17:50:46

Plot on Configuration QPSK, 20M / 5650 MHz / Peak / Port 1 / 3GHz~6GHz



Date: 29.NOV.2017 17:53:21

Plot on Configuration QPSK, 20M / 5650 MHz / Peak / Port 2 / 3GHz~6GHz



Date: 29.NOV.2017 17:51:14

Plot on Configuration QPSK, 20M / 5720 MHz / Average / Port 1 / 3GHz~6GHz



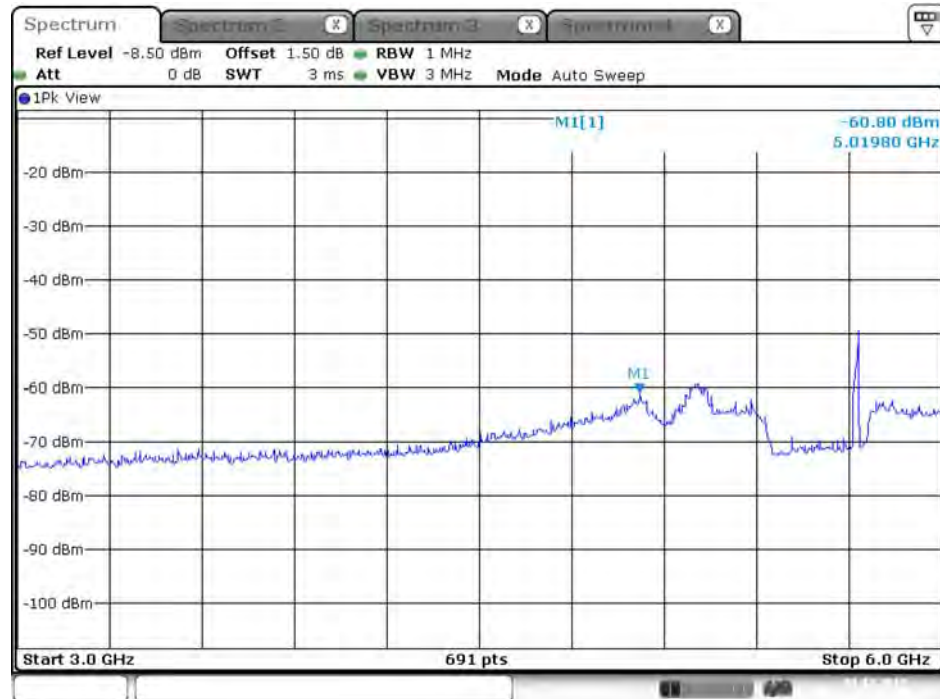
Date: 1.DEC.2017 21:47:20

Plot on Configuration QPSK, 20M / 5720 MHz / Average / Port 2 / 3GHz~6GHz



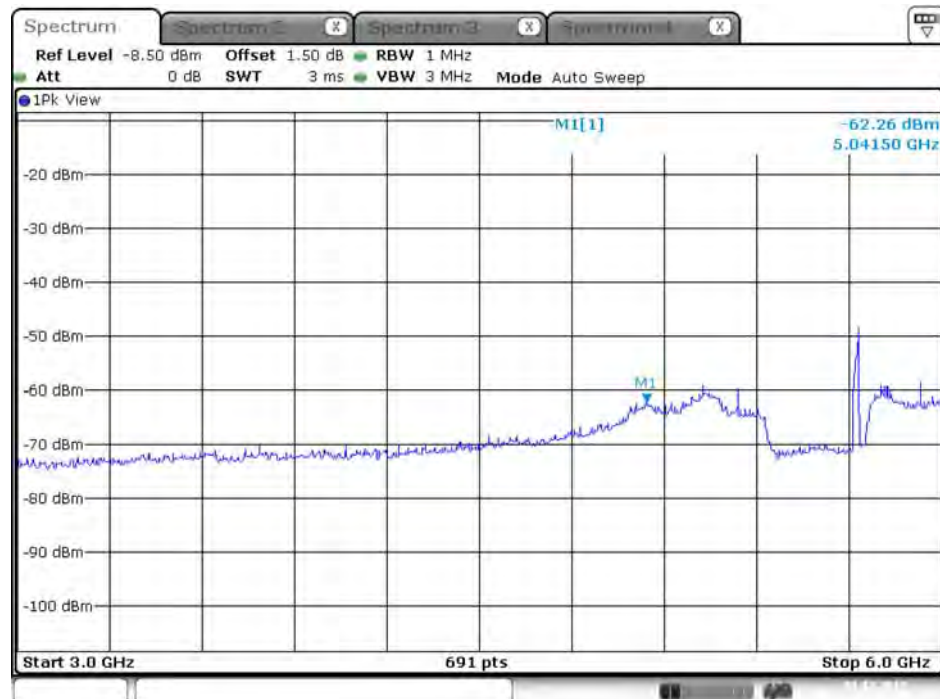
Date: 1.DEC.2017 21:41:35

Plot on Configuration QPSK, 20M / 5720 MHz / Peak / Port 1 / 3GHz~6GHz



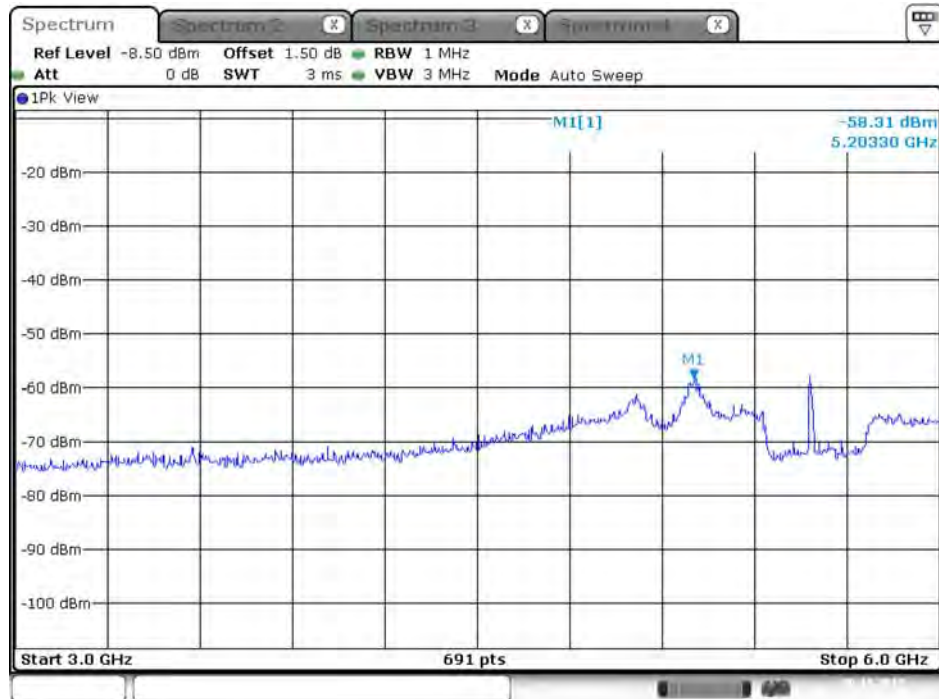
Date: 1.DEC.2017 21:49:05

Plot on Configuration QPSK, 20M / 5720 MHz / Peak / Port 2 / 3GHz~6GHz



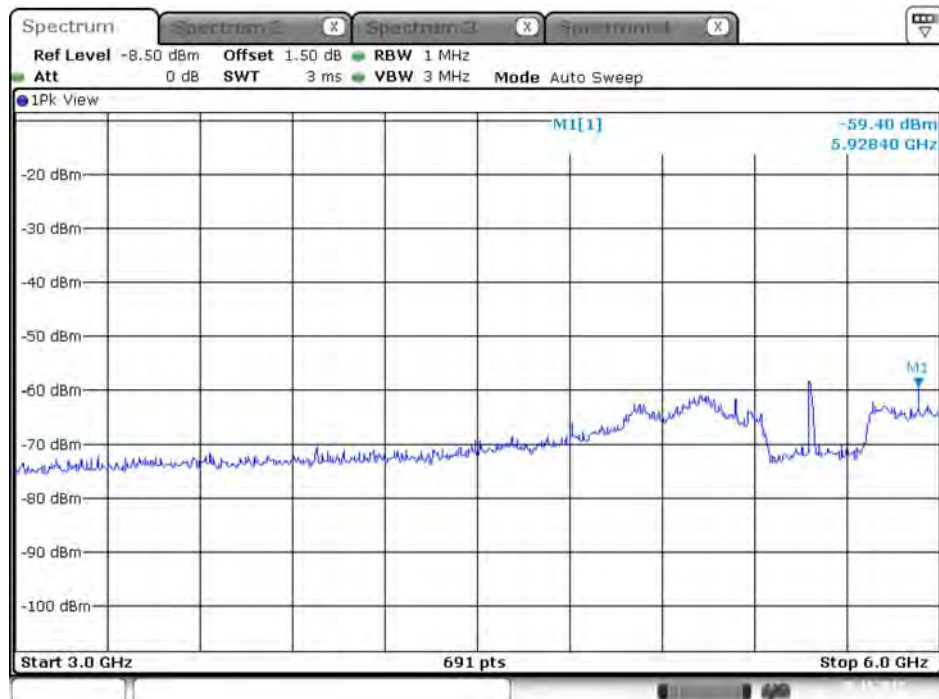
Date: 1.DEC.2017 21:43:31

Plot on Configuration QPSK, 20M / 5580 MHz / Peak / Port 1 / 3GHz~6GHz_Emission in Non-restriction band



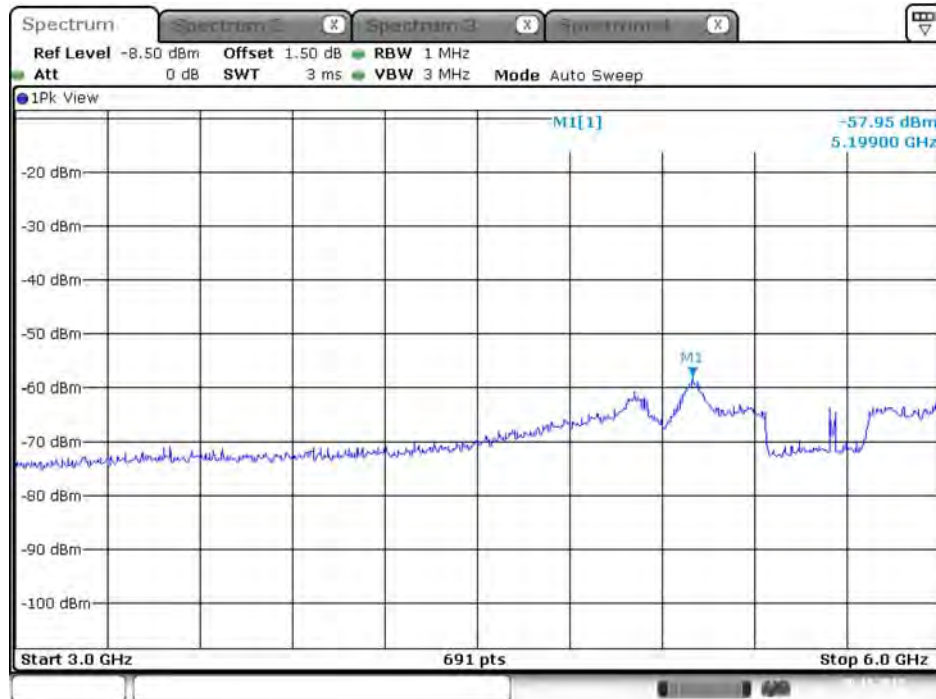
Date: 29.NOV.2017 17:47:11

Plot on Configuration QPSK, 20M / 5580 MHz / Peak / Port 2 / 3GHz~6GHz_Emission in Non-restriction band



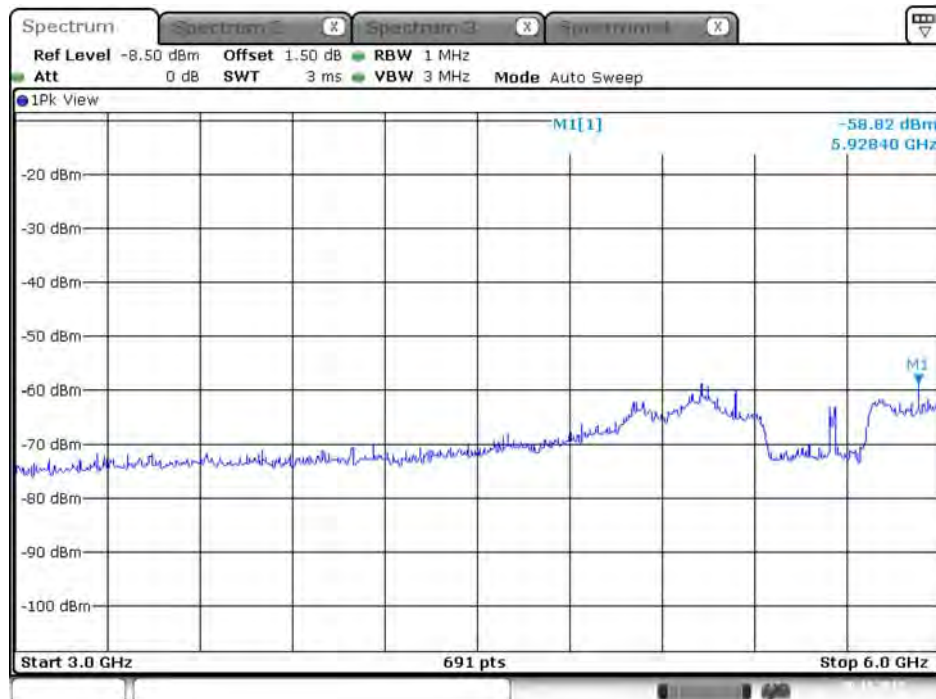
Date: 29.NOV.2017 17:49:48

Plot on Configuration QPSK, 20M / 5650 MHz / Peak / Port 1 / 3GHz~6GHz_Emission in Non-restriction band



Date: 29.NOV.2017 17:53:37

Plot on Configuration QPSK, 20M / 5650 MHz / Peak / Port 2 / 3GHz~6GHz_Emission in Non-restriction band



Date: 29.NOV.2017 17:51:31