



EMISSIONS TEST REPORT

(FULL COMPLIANCE)

Report Number: 102966681BOX-003

Project Number: G102966681

Report Issue Date: 06/24/2017

Model(s) Tested: MTW100

Model(s) Partially Tested: None

Model(s) Not Tested but declared equivalent by the client: None

Standards: FCC Part 15 Subpart E: 2017
FCC Part 15 Subpart C: 2017
FCC Part 15 Subpart B: 2017
RSS 247 Issue 2: 02/2017
RSS 102 Issue 5: 03/2015
ICES 003 Issue 6: 01/2016

Tested by:
Intertek Testing Services NA, Inc.
70 Codman Hill Road
Boxborough, MA 01719
USA

Client:
Owl Labs
33-1/2 Union Square
Somerville, MA 02143
USA

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Naga Suryadevara/EMC Engineer

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Kouma Sinn/EMC Engineer

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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
3	Client Information	--
4	Description of Equipment Under Test and Variant Models	--
5	System Setup and Method	--
6	Transmitter Conducted Output Power and Human RF Exposure (CFR47 FCC Part 15 Subpart E: 2017 CFR47 FCC Part 15 Subpart C (15.247): 2017 RSS 247: 02/2017 RSS 102: 03/2015)	Compliant
7	Power Spectral Density (CFR47 FCC Part 15 Subpart E: 2017 CFR47 FCC Part 15 Subpart C (15.247): 2017 RSS 247: 02/2017)	Compliant
8	Bandwidth (CFR47 FCC Part 15 Subpart E: 2017 CFR47 FCC Part 15 Subpart C (15.247): 2017 RSS 247: 02/2017)	Compliant
9	Radiated Emissions (Transmitter Spurious, Band edge, Digital devices and Receiver) (CFR47 FCC Part 15 Subpart E: 2017 CFR47 FCC Part 15 Subpart C (15.247): 2017 RSS 247: 02/2017 FCC Part 15 Subpart B: 2017 ICES 003: 01/2016)	Compliant
10	Conducted Emissions (CFR47 FCC Part 15 Subpart E: 2017 CFR47 FCC Part 15 Subpart C (15.247): 2017 RSS 247: 02/2017 FCC Part 15 Subpart B: 2017 ICES 003: 01/2016)	Compliant
11	Frequency Stability (CFR47 FCC Part 15 Subpart E: 2017 RSS 247: 02/2017)	Compliant
12	Revision History	--

3 Client Information

This EUT was tested at the request of:

Client: Owl Labs
 33-1/2 Union Square
 Somerville, MA 02143
 USA

Contact: Amy DeDeo
Telephone: 508-454-1900
Fax: 508-454-1900
Email: amy@owllabs.com

4 Description of Equipment Under Test and Variant Models

Manufacturer: Nanning Fugui Precision Industrial Co., Ltd.
 B Factories Area, Foxconn Nanning Sci-Tech Park, No.51, Tongle Avenue
 Nanning, Guangxi 530000
 China

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Video Conferencing Device	Foxconn	MTW100	ATL1704121031-001 Option A – Conducted Sample
Video Conferencing Device	Foxconn	MTW100	ATL1704121031-002 Option A – Radiated Sample

Receive Date:	04/06/2017
Received Condition:	Good
Type:	Production

Description of Equipment Under Test (provided by client)
Video Conferencing device

Equipment Under Test Power Configuration			
Rated Voltage	Rated Current	Rated Frequency	Number of Phases
100 – 240 VAC	1.7 A	50/60 Hz	1

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	Transmit low, mid and high channels
2	Receive mode

Software used by the EUT:

No.	Descriptions of EUT Exercising
1	Qualcomm Radio Tool Kit QRTC3

Radio/Receiver Characteristics	
Frequency Band(s)	5180-5250 MHz 5250-5320 MHz 5500-5720 MHz 5745-5825 MHz
Modulation Type(s)	802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)
Maximum Output Power	5180-5250 MHz, 0.01270 W 5250-5320 MHz, 0.02393 W 5500-5720 MHz, 0.00895 W 5745-5825 MHz, 0.01177 W
Test Channels	As indicated in the test sections
Maximum Bandwidth (26dB)	88.71 MHz
Frequency Hopper: Number of Hopping Channels	N/A
Frequency Hopper: Channel Dwell Time	N/A
Frequency Hopper: Max interval between two instances of use of the same channel	N/A
MIMO Information (# of Transmit and Receive antenna ports)	One Antenna
Equipment Type	Standalone host
ETSI LBT/Adaptivity	N/A
ETSI Adaptivity Type	N/A
ETSI Temperature Category (I, II, III)	N/A
ETSI Receiver Category (1, 2, 3)	N/A
Antenna Type and Gain	3 dBi @ 4.9 GHz to 4 dBi @ 6 GHz.

Variant Models:

The following variant models were not tested as part of this evaluation, but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

None

5 System Setup and Method

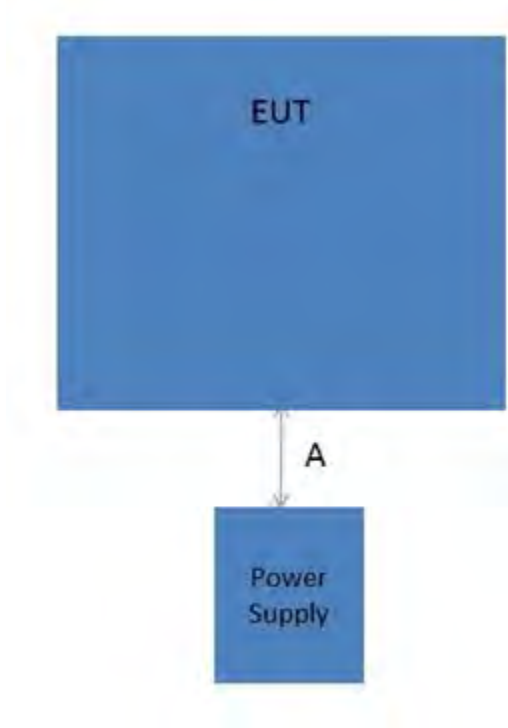
Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
--	AC Adapter	2.5	No	No	AC Mains
--	USB Cable	2	Yes	No	Unterminated

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
None			

5.1 Method:

Configuration as required by FCC Part 15 Subpart E: 2017, FCC Part 15 Subpart C: 2017, FCC Part 15 Subpart B: 2017, RSS 247 Issue 2: 02/2017, RSS 102 Issue 5: 03/2015, ICES 003 Issue 6: 01/2016 ANS C 63.10: 2013, and ANSI C 63.4: 2014

5.2 EUT Block Diagram:



6 Conducted Output Power and Human RF Exposure

6.1 Method

Tests are performed in accordance with FCC Part 15 Subpart E, FCC Part 15 Subpart C (15.247), RSS 247 and RSS 102.

TEST SITE: EMC Lab

The EMC Lab has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

6.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
ROS005'	ETSI Test System	Rhode & Schwartz	TS8997	N/A	09/15/2016	09/15/2017
WEI8'	Attenuator	Weinschel Corp	47-10-34	BD8309	04/08/2017	04/08/2018
CBLHF2012-2M-1'	2m 9kHz-40GHz Coaxial Cable - SET1	Huber & Suhner	SF102	252675001	02/08/2017	02/08/2018

Software Utilized:

Name	Manufacturer	Version
None		

6.3 Results:

The sample tested was found to Comply.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

6.4 Plots/Data:

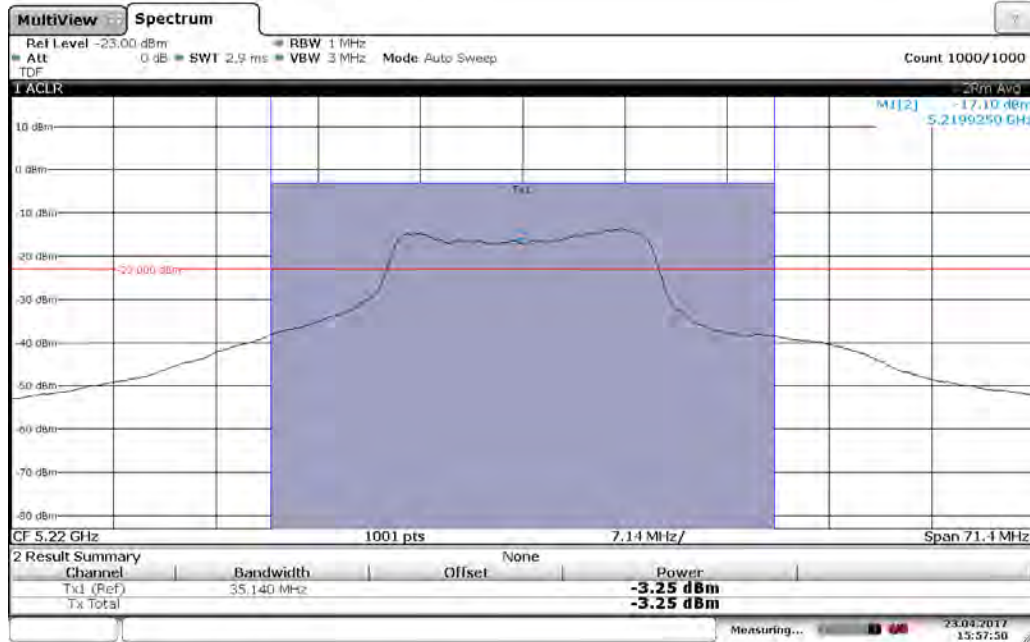
Band 1 (20 MHz Bandwidth)

Low Channel – 5180 MHz, 802 11g 6 Mbps, Output Power: 5.16 dBm



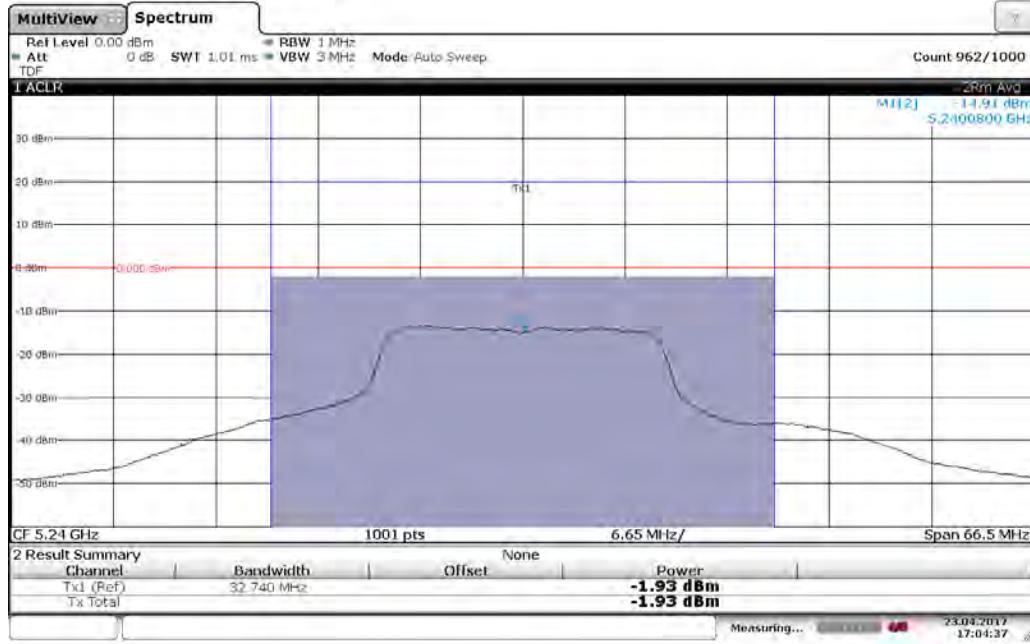
Date: 20 APR 2017 04:35:16

Mid Channel – 5220 MHz, 802 11g 6 Mbps, Output Power: -3.25 dBm



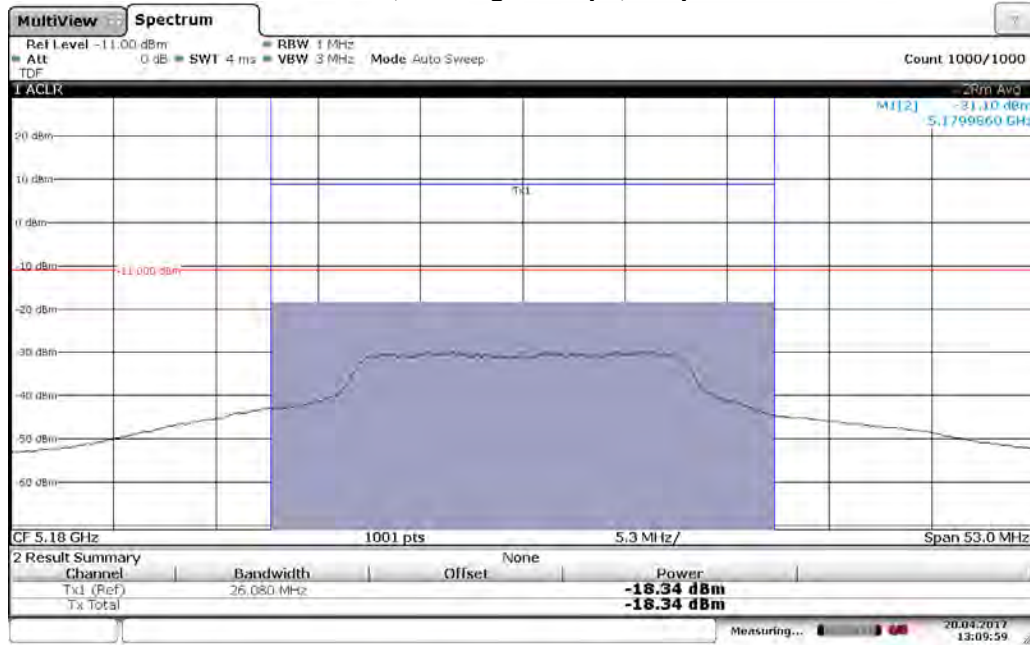
Date: 23 APR 2017 15:57:50

High Channel – 5240 MHz, 802 11g 6 Mbps, Output Power: -1.93 dBm



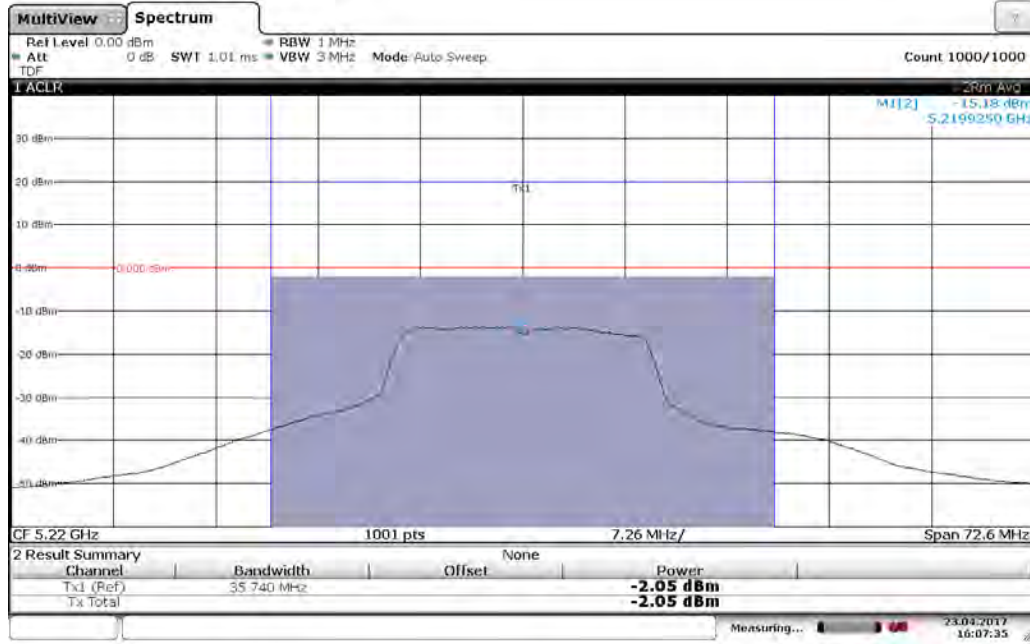
Date: 23 APR 2017 17:04:37

Low Channel – 5180 MHz, 802 11g 54 Mbps, Output Power: -18.34 dBm



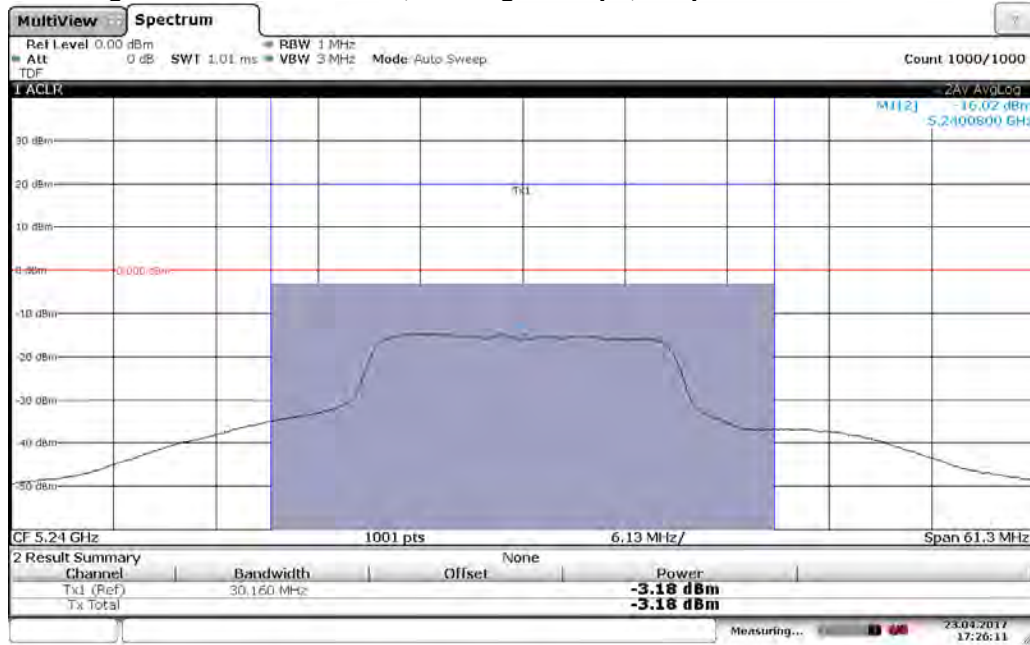
Date: 20 APR 2017 13:09:58

Mid Channel – 5220 MHz, 802 11g 54 Mbps, Output Power: -2.05 dBm



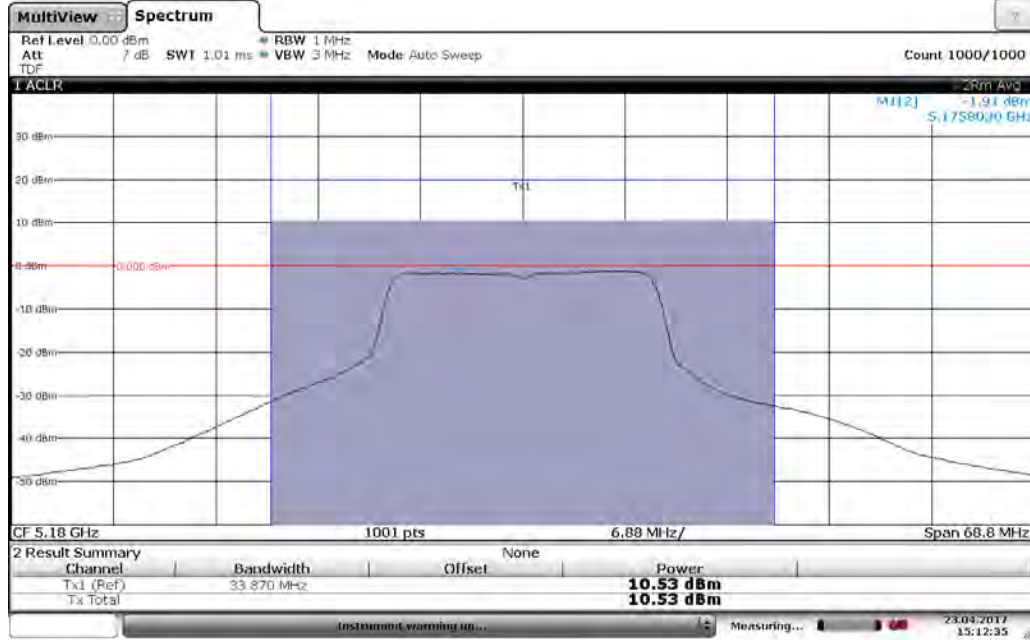
Date: 23. APR 2017 16:07:34

High Channel – 5240 MHz, 802 11g 54 Mbps, Output Power: -3.18 dBm



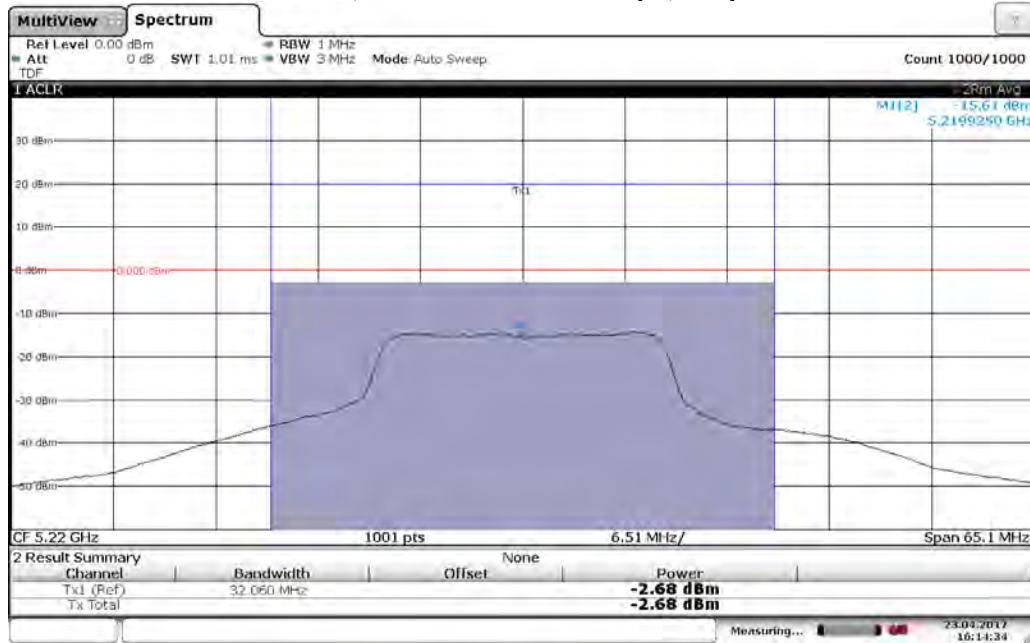
Date: 23. APR 2017 17:26:11

Low Channel – 5180 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 10.53 dBm



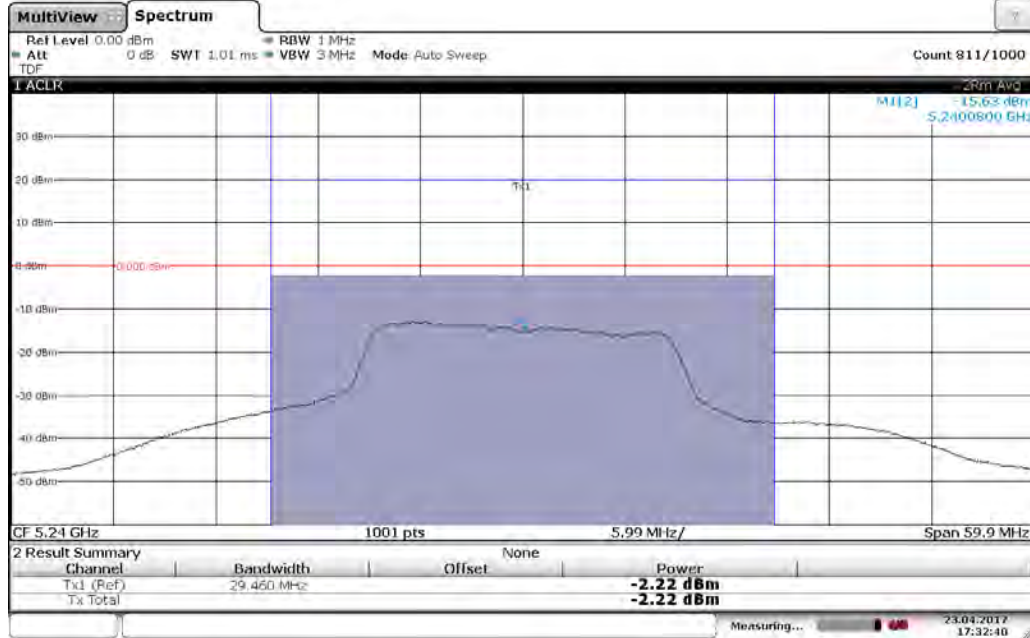
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Mid Channel – 5220 MHz, 802 11n MCS0 6.5 Mbps, Output Power: -2.68 dBm



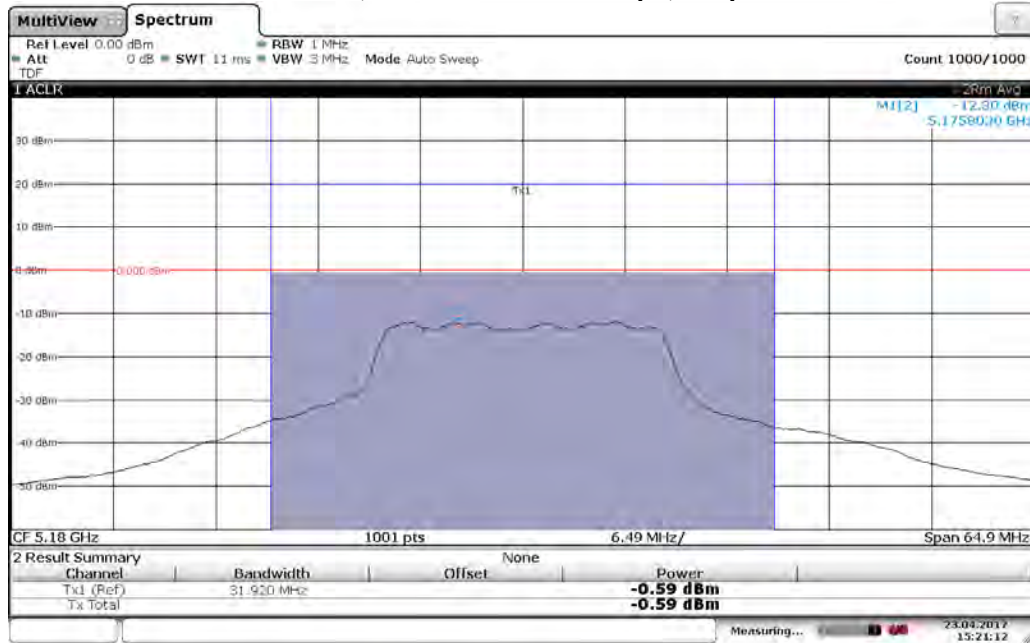
Date: 23. APR 2017 16:14:34

High Channel – 5240 MHz, 802 11n MCS0 6.5 Mbps, Output Power: -2.22 dBm



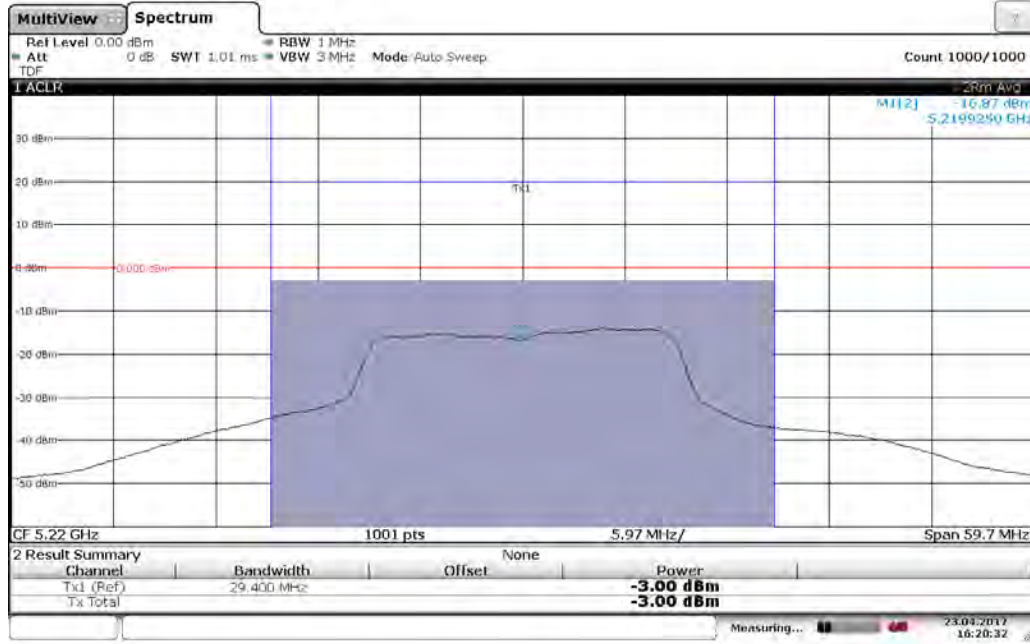
Date: 23 APR 2017 17:32:41

Low Channel – 5180 MHz, 802 11n MCS0 65 Mbps, Output Power: -0.59 dBm



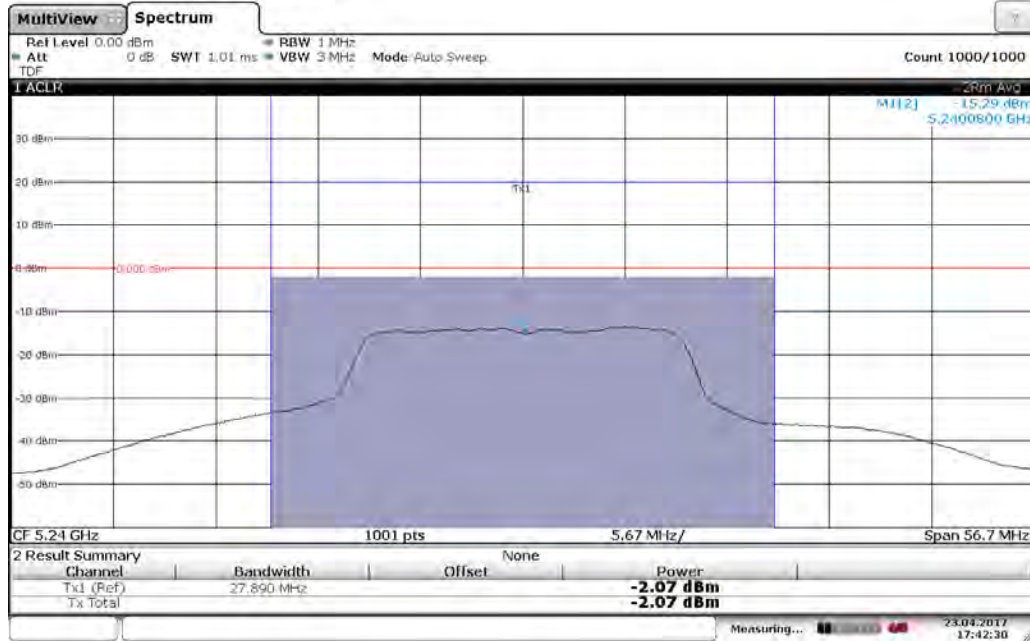
Date: 23 APR 2017 15:21:12

Mid Channel – 5220 MHz, 802 11n MCS0 65 Mbps, Output Power: -3.00 dBm



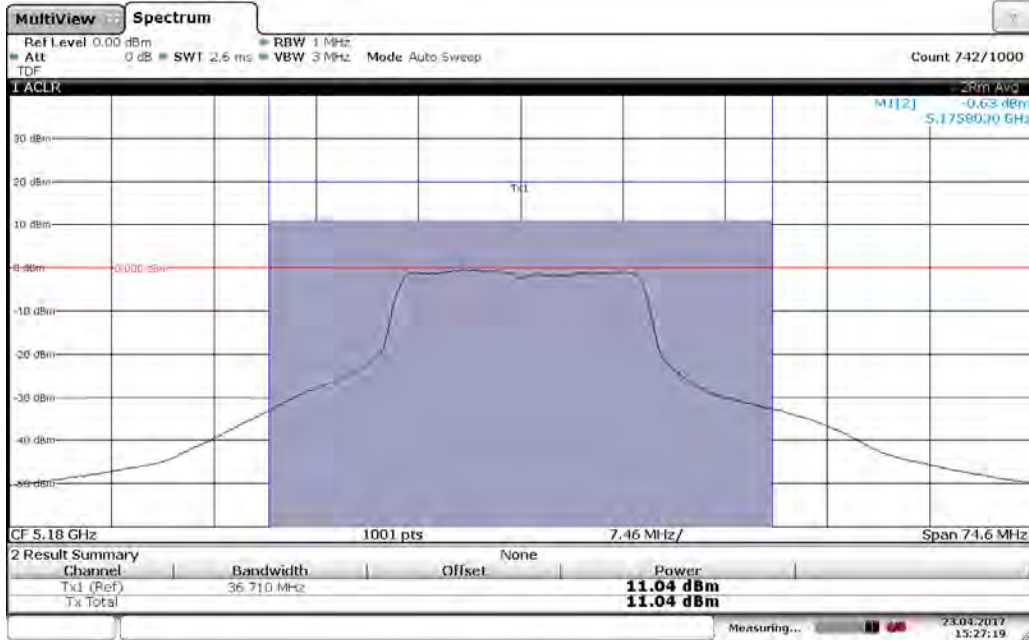
Date: 23. APR 2017 16:20:32

High Channel – 5240 MHz, 802 11n MCS0 65 Mbps, Output Power: -2.07 dBm

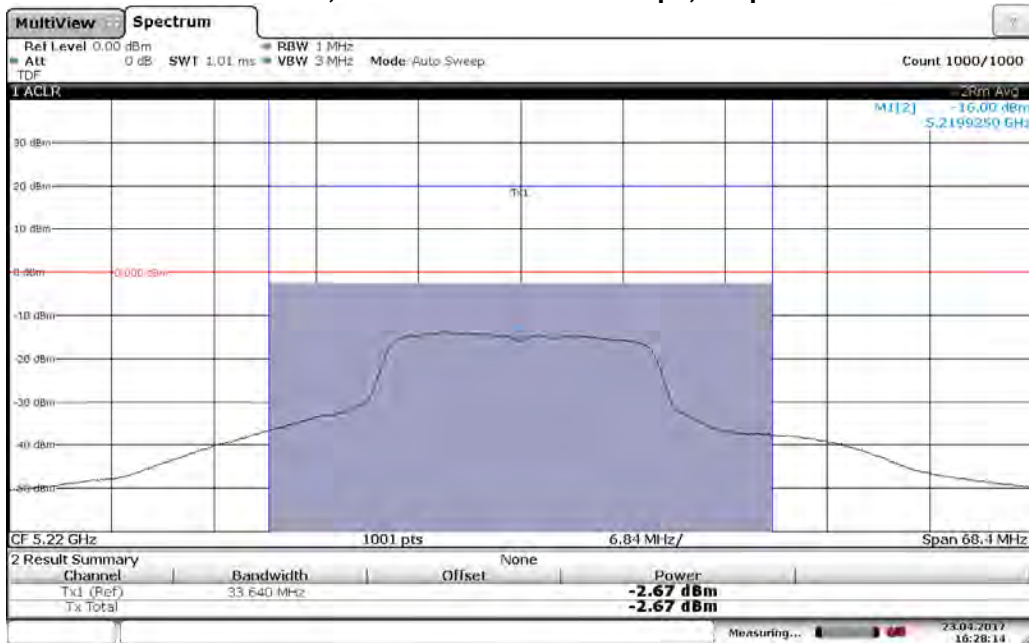


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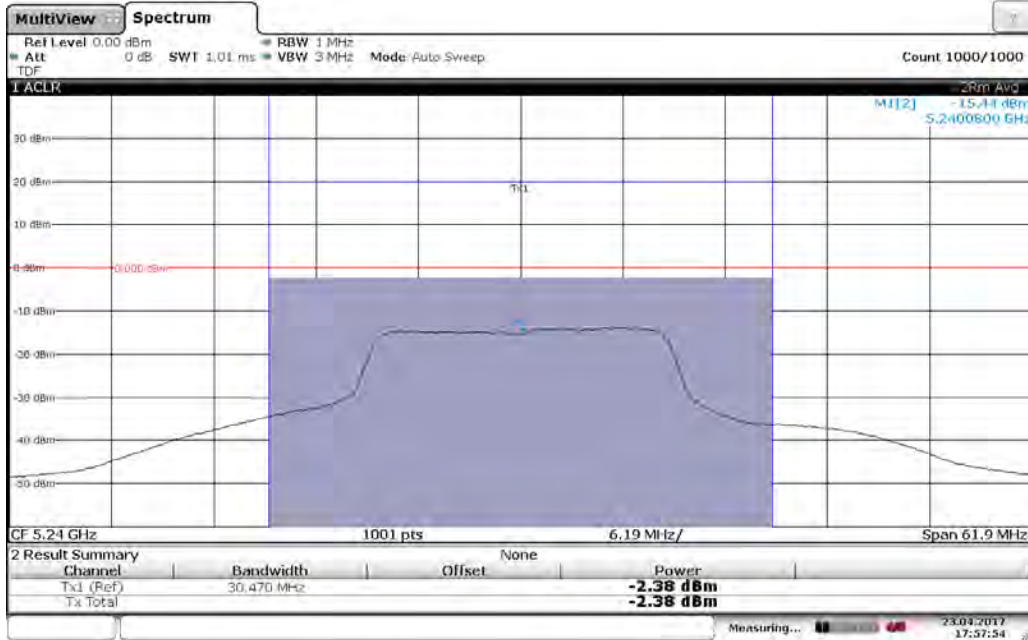
Low Channel – 5180 MHz, 802 11n MCS0MM 7.2 Mbps, Output Power: 11.04 dBm



Mid Channel – 5220 MHz, 802 11n MCS0MM 7.2 Mbps, Output Power: -2.67 dBm

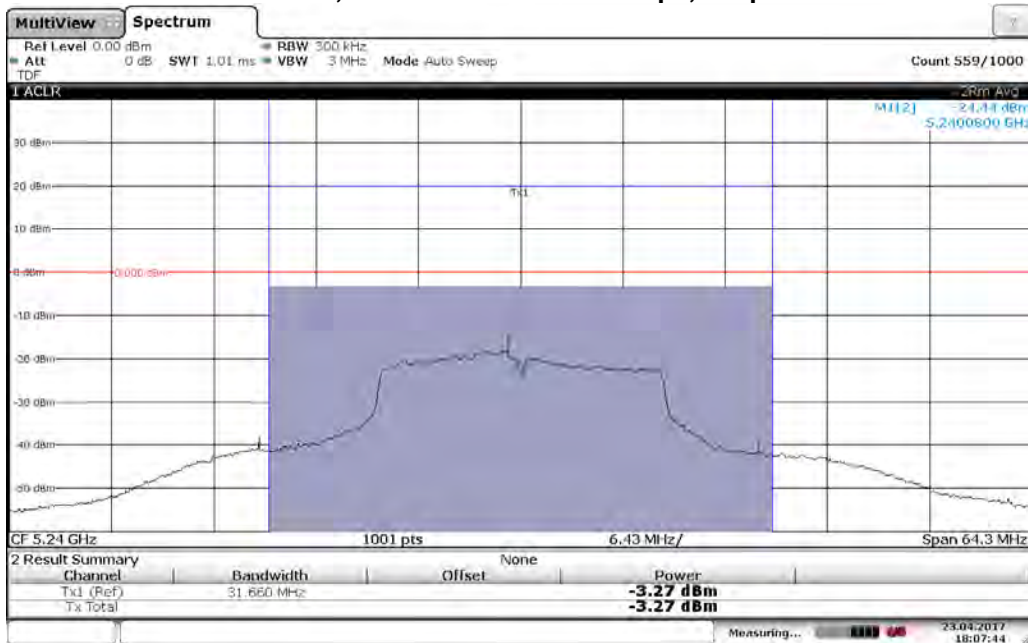


High Channel – 5240 MHz, 802 11n MCS0MM 7.2 Mbps, Output Power: -2.38 dBm



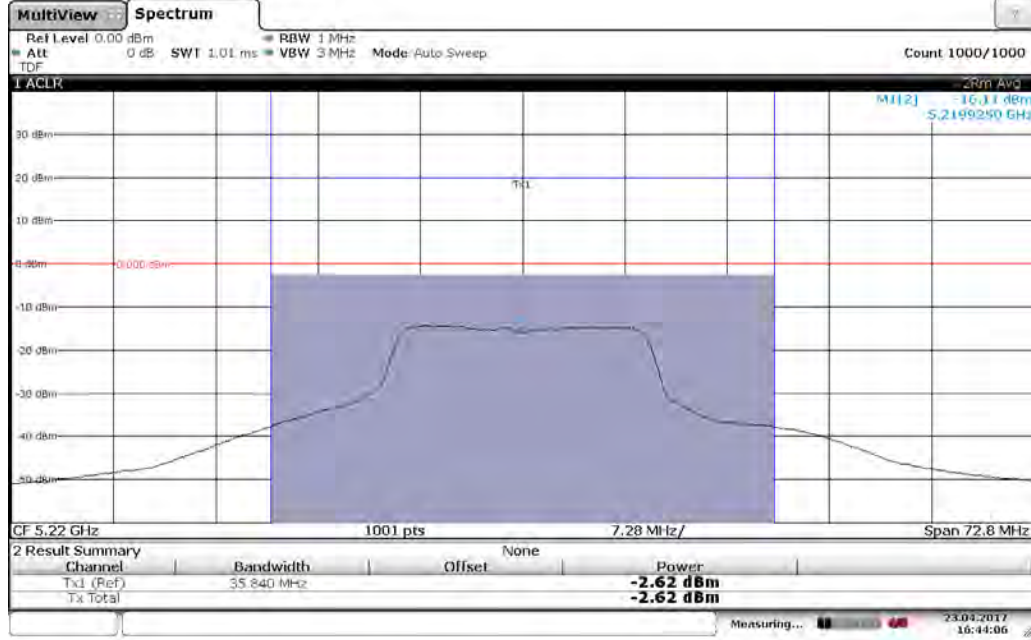
Date: 23 APR 2017 17:57:54

Low Channel – 5180 MHz, 802 11n MCS0MM 72 Mbps, Output Power: -3.27 dBm



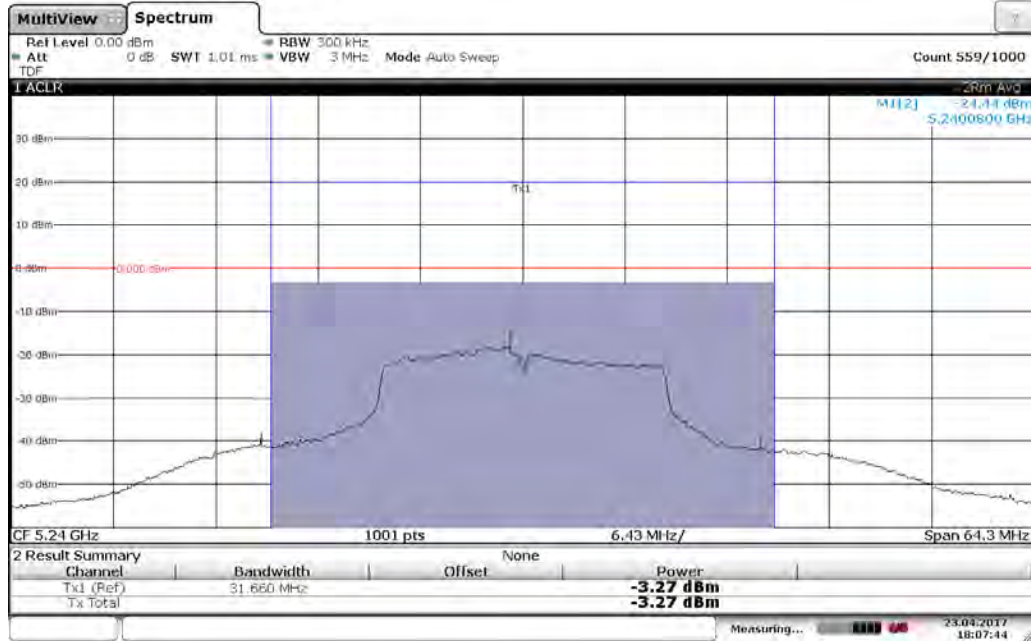
Date: 23 APR 2017 18:07:44

Mid Channel – 5220 MHz, 802 11n MCS0MM 72 Mbps, Output Power: -2.62 dBm



Date: 23. APR 2017 16:44:06

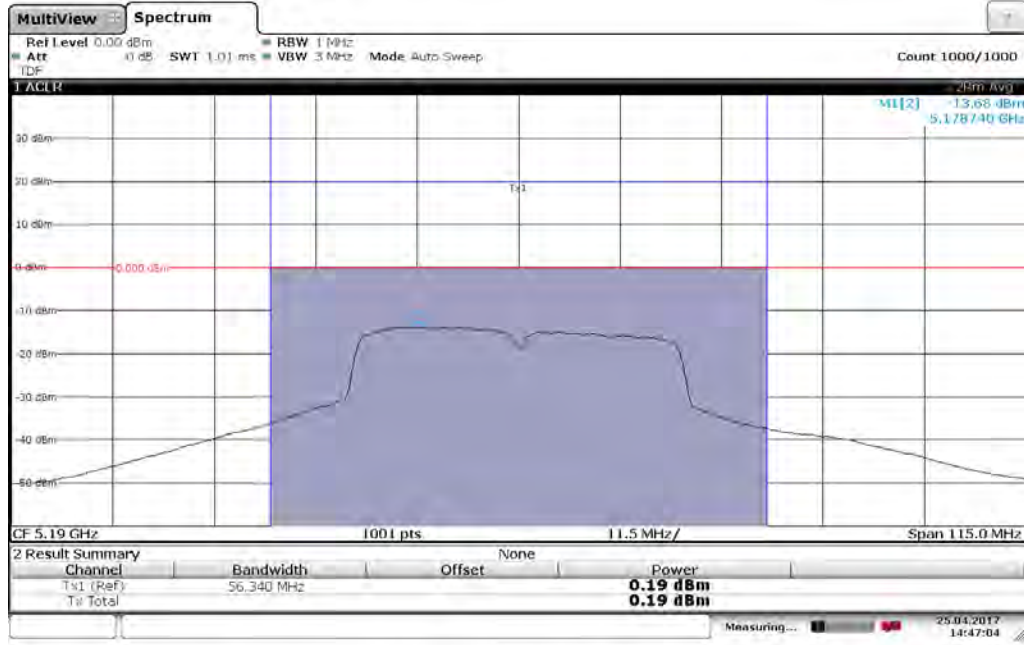
High Channel – 5240 MHz, 802 11n MCS0MM 72 Mbps, Output Power: -3.27 dBm



Date: 23. APR 2017 18:07:44

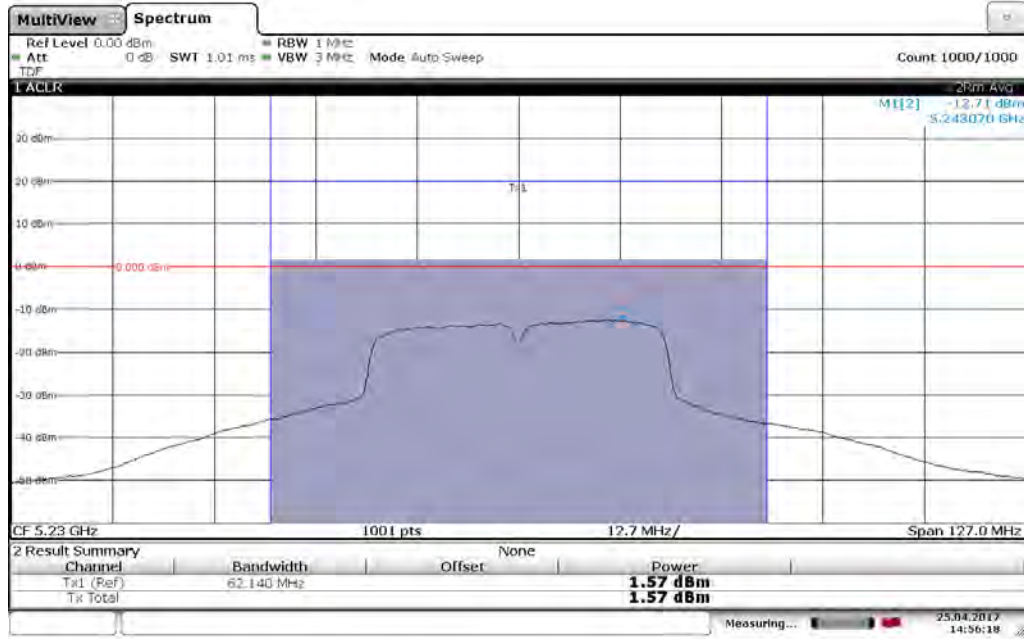
Band 1 (40 MHz Bandwidth)

Low Channel – 5190 MHz, 802 11n MCS0 13.5, Output Power: 0.19 dBm



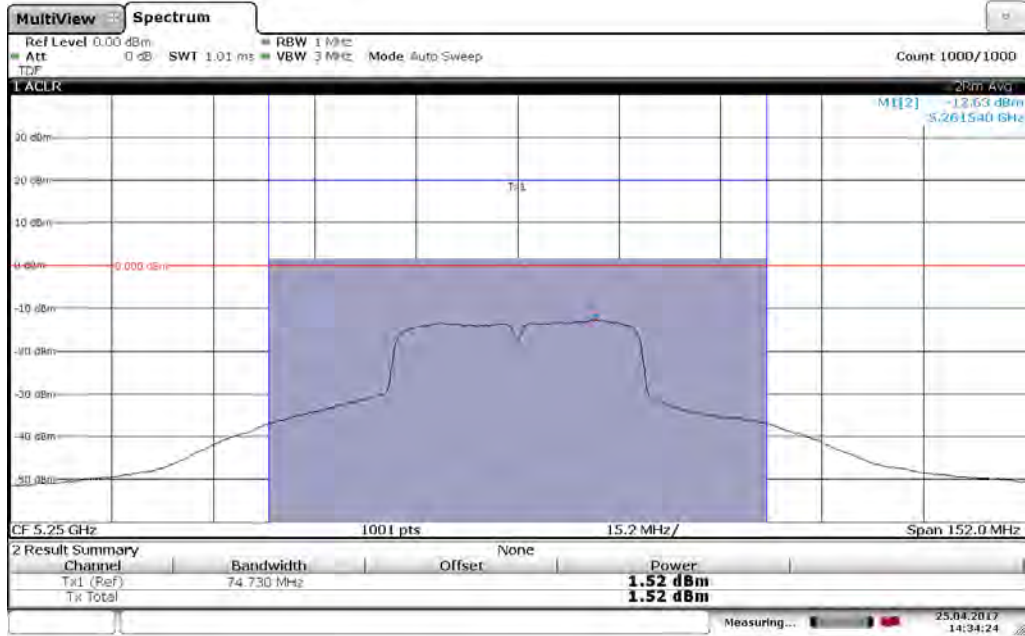
Date: 25 APR 2017 14:47:04

Mid Channel – 5230 MHz, 802 11n MCS0 13.5, Output Power: 1.57 dBm



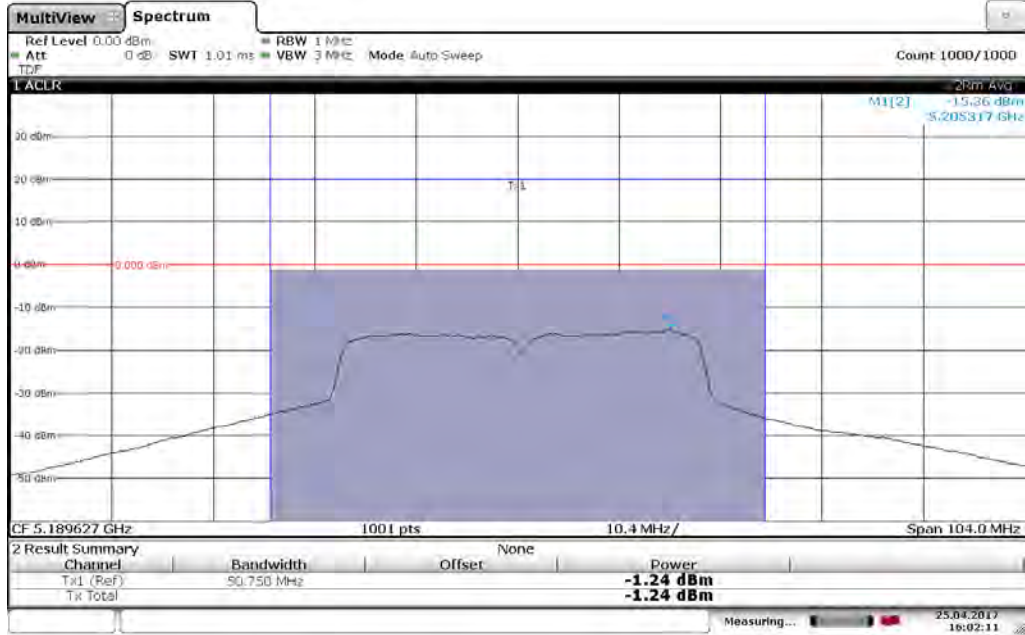
Date: 25 APR 2017 14:56:18

High Channel – 5250 MHz, 802 11n MCS0 13.5, Output Power: 1.52 dBm



Date: 25 APR 2017 14:34:24

Low Channel – 5190 MHz, 802 11n MCS0 MM SG 15, Output Power: -1.24 dBm



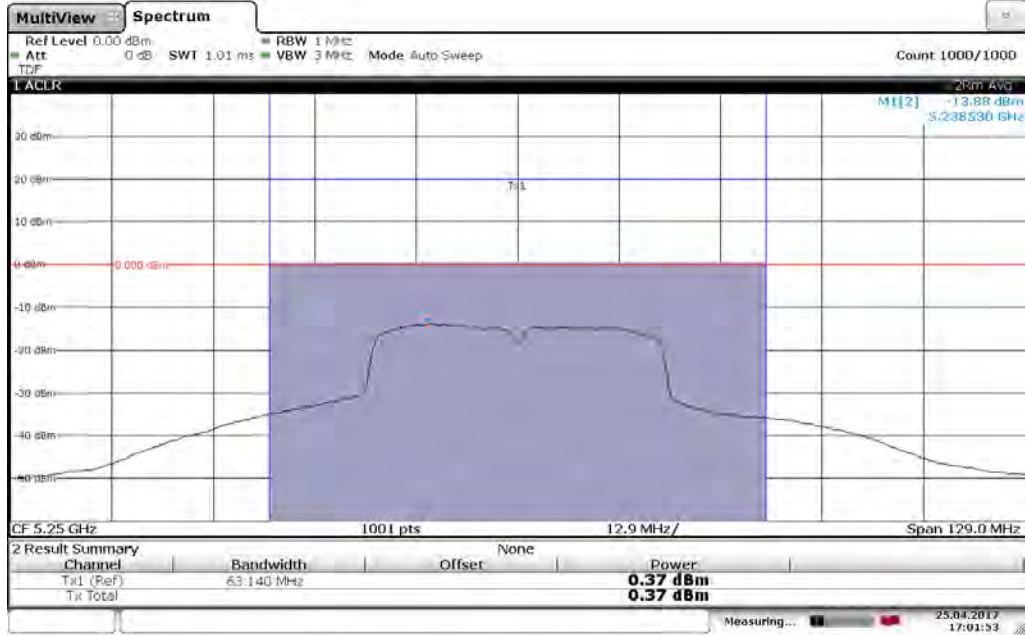
Date: 25 APR 2017 16:02:11

Mid Channel – 5230 MHz, 802 11n MCS0 MM SG 15, Output Power: 0.09 dBm



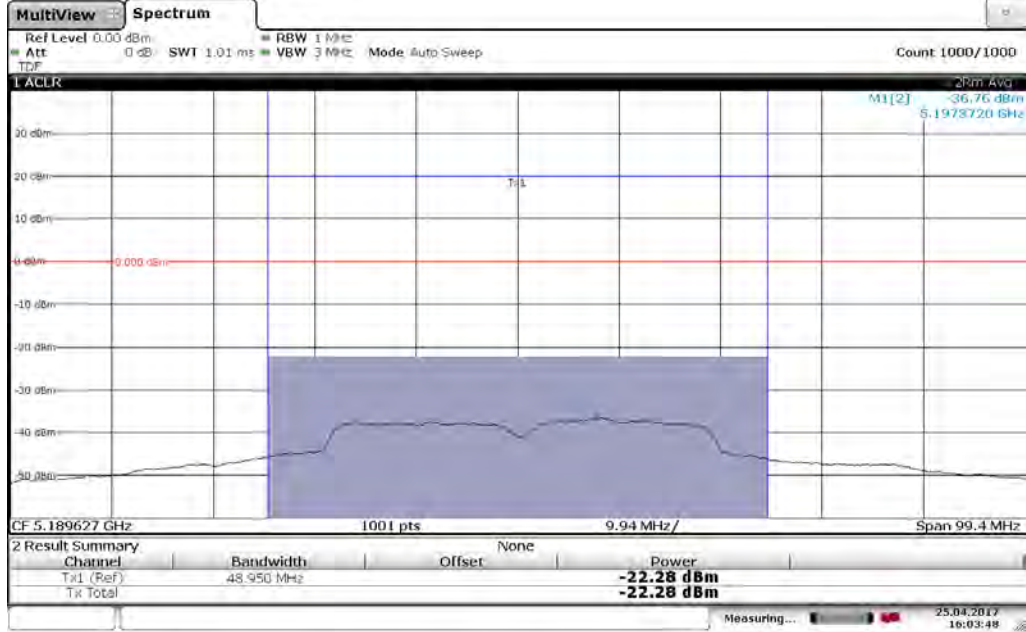
Date: 25 APR 2017 16:23:57

High Channel – 5250 MHz, 802 11n MCS0 MM SG 15, Output Power: 0.37 dBm



Date: 25 APR 2017 17:01:53

Low Channel – 5190 MHz, 802 11n MCS0 MM SG 150, Output Power: -22.28 dBm



Date: 25 APR 2017 16:03:47

Mid Channel – 5230 MHz, 802 11n MCS0 MM SG 150, Output Power: -21.64 dBm



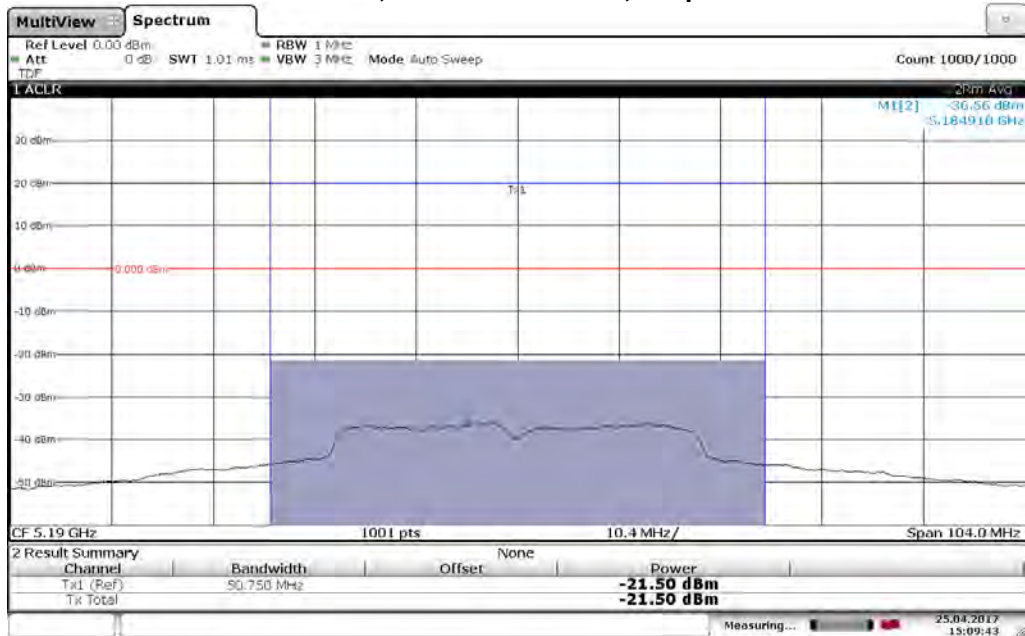
Date: 25 APR 2017 16:21:52

High Channel – 5250 MHz, 802 11n MCS0 MM SG 150, Output Power: -21.36 dBm



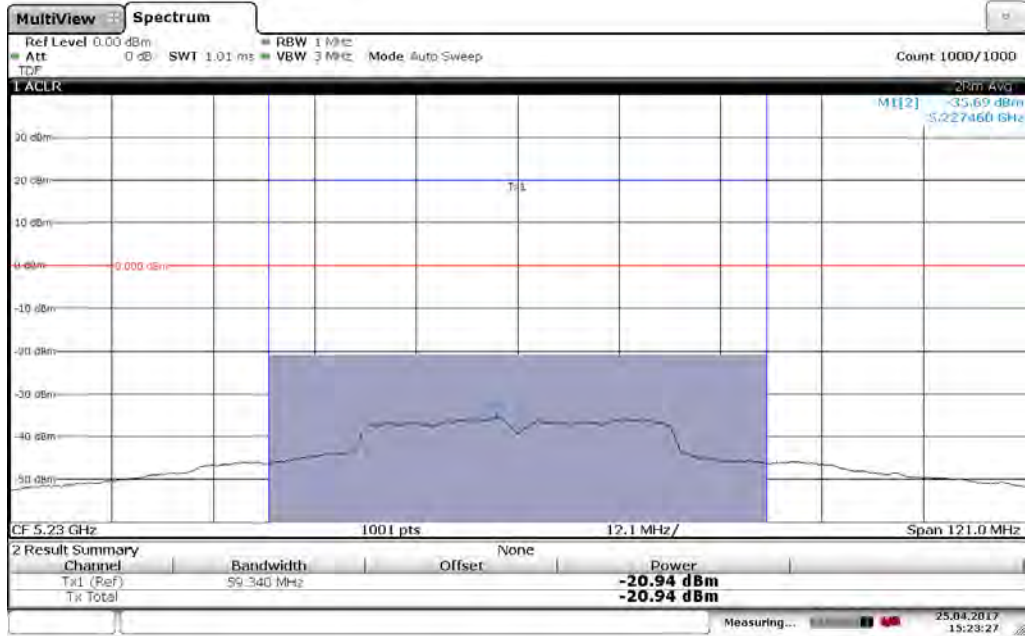
Date: 25 APR 2017 17:00:21

Low Channel – 5190 MHz, 802 11n MCS0 135, Output Power: -21.50 dBm



Date: 25 APR 2017 15:09:42

Mid Channel – 5230 MHz, 802 11n MCS0 135, Output Power: -20.94 dBm



Date: 25 APR 2017 15:23:27

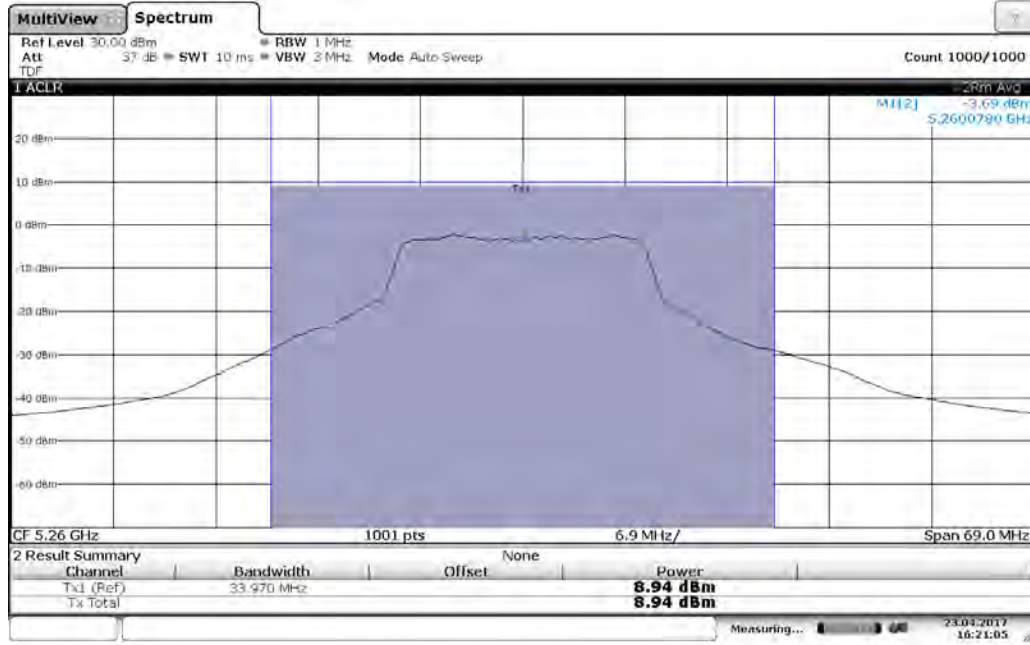
High Channel – 5250 MHz, 802 11n MCS0 135, Output Power: -21.00dBm



Date: 25 APR 2017 15:33:03

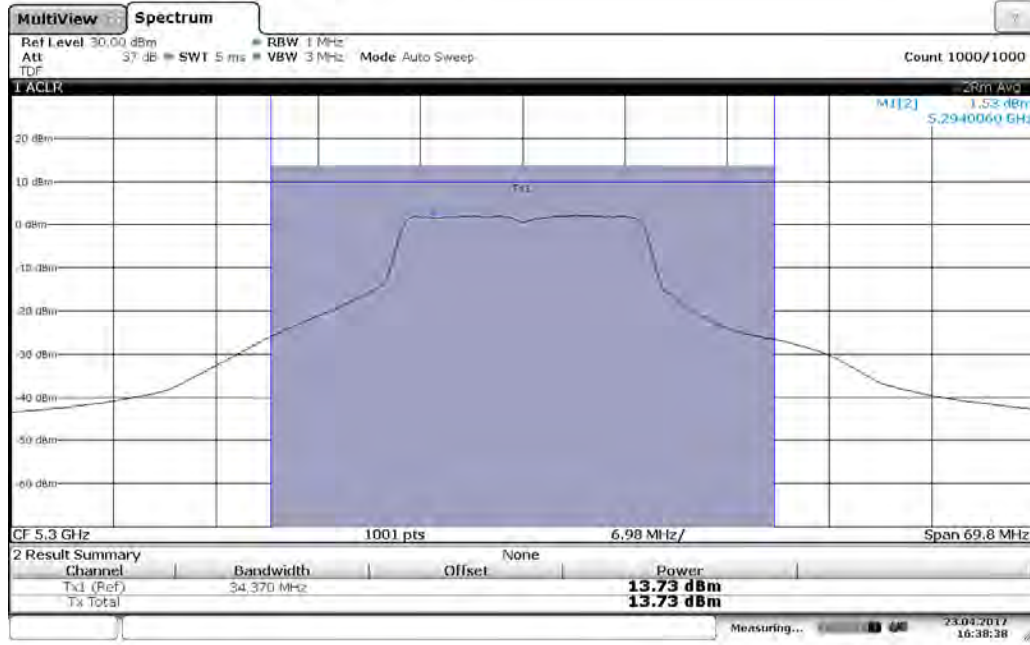
Band 2 (20 MHz Bandwidth)

Low Channel – 5260 MHz, 802 11g 6 Mbps, Output Power: 8.94 dBm



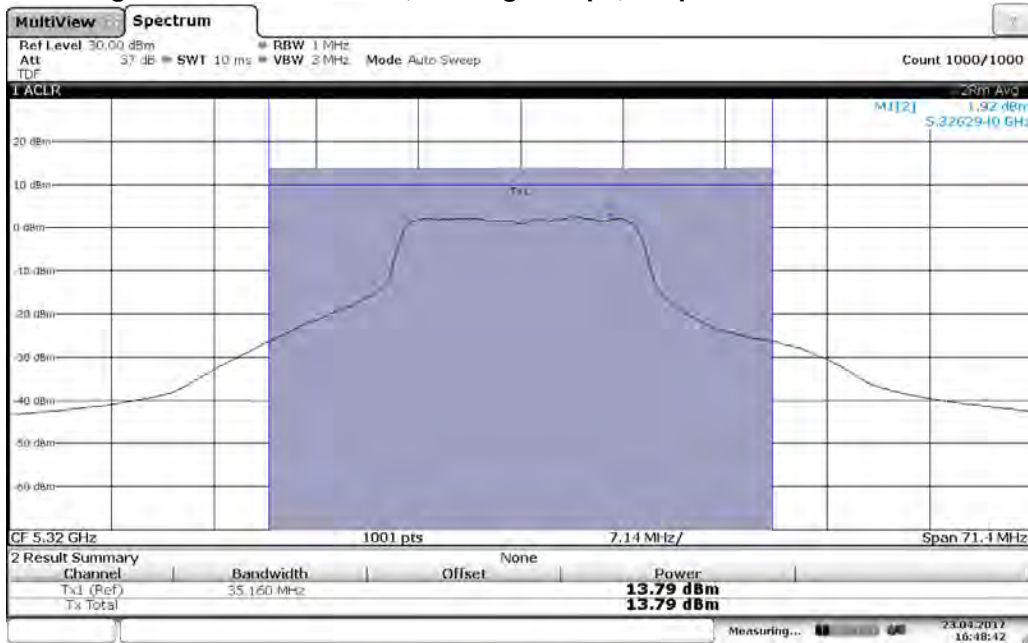
Date: 23. APR 2017 16:21:05

Mid Channel – 5300 MHz, 802 11g 6 Mbps, Output Power: 13.73 dBm



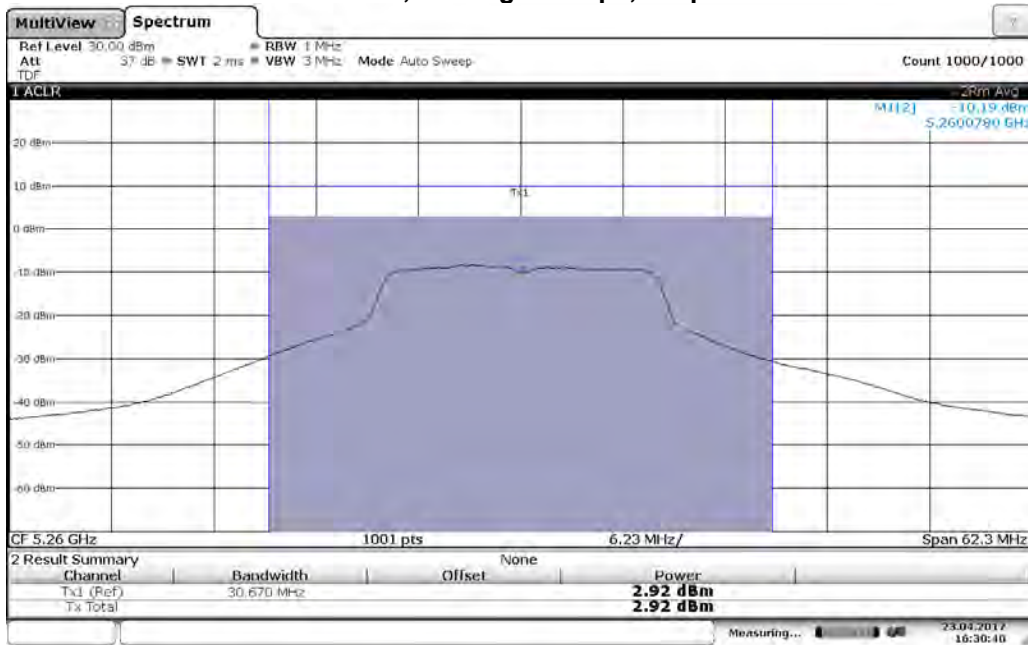
Date: 23. APR 2017 16:38:37

High Channel – 5320 MHz, 802 11g 6 Mbps, Output Power: 13.79 dBm



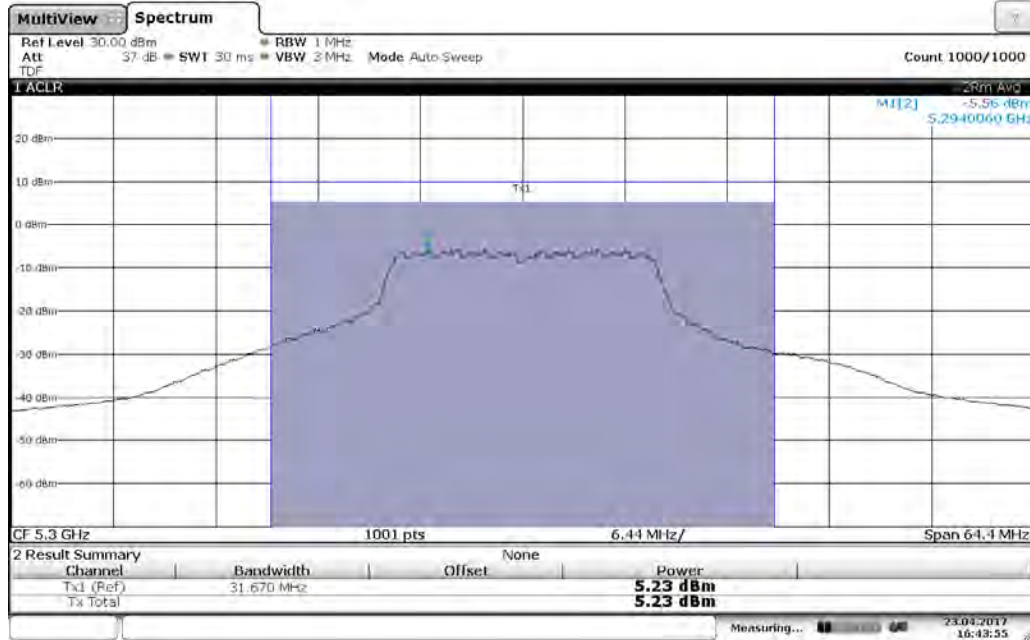
Date: 23 APR 2017 16:46:41

Low Channel – 5260 MHz, 802 11g 54 Mbps, Output Power: 2.92 dBm



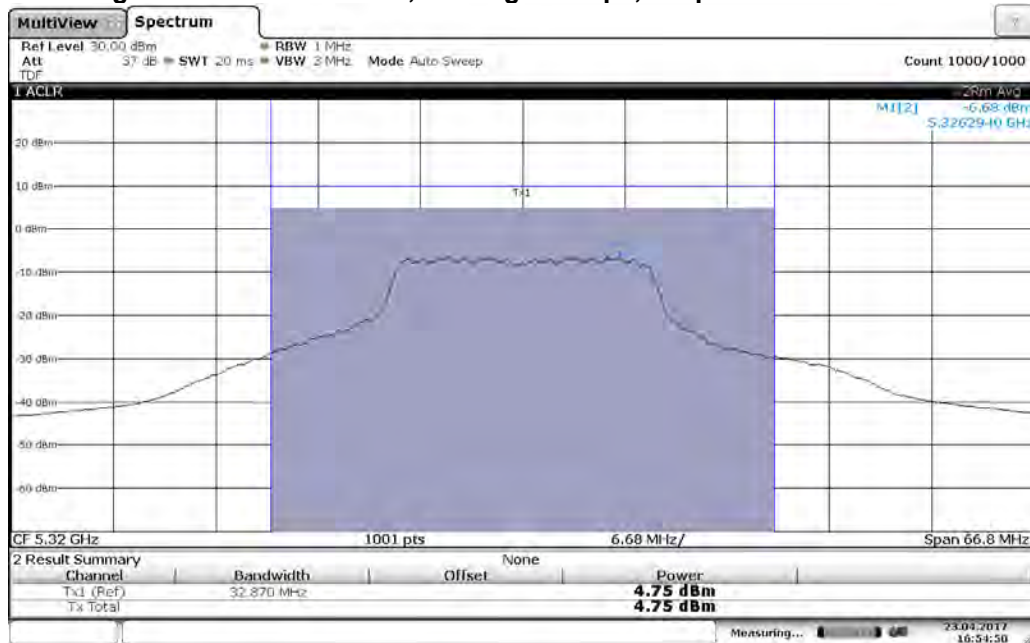
Date: 23 APR 2017 16:30:39

Mid Channel – 5260 MHz, 802 11g 54 Mbps, Output Power: 5.23 dBm



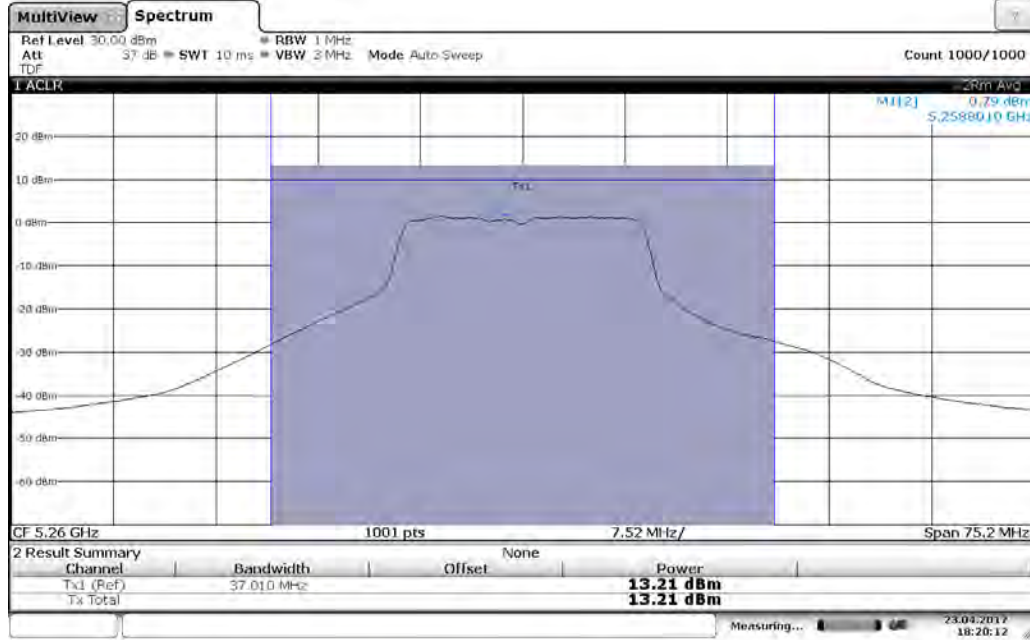
Date: 23 APR 2017 16:43:55

High Channel – 5260 MHz, 802 11g 54 Mbps, Output Power: 4.75 dBm



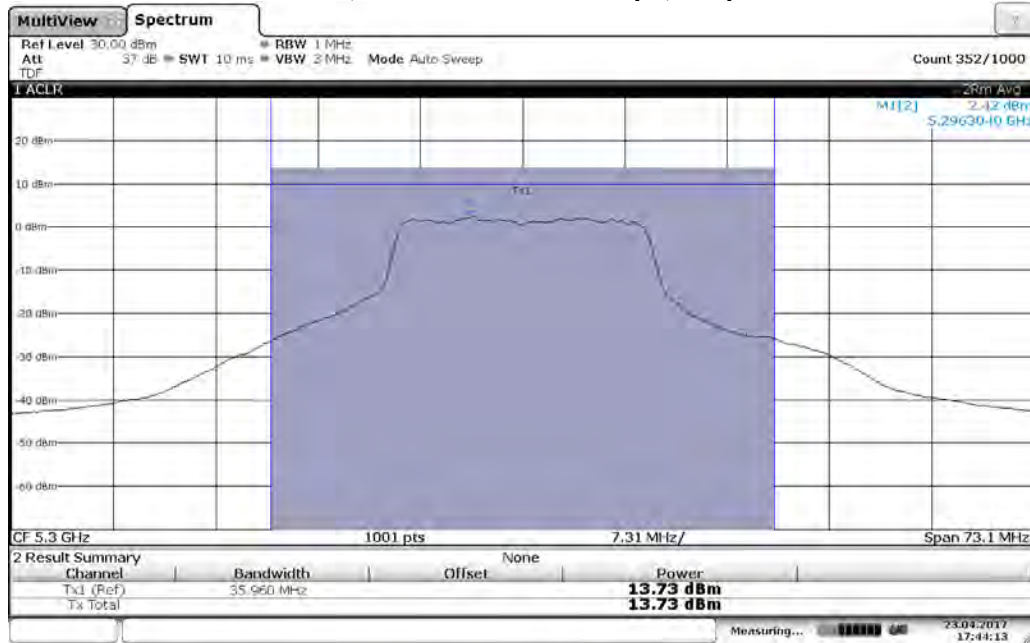
Date: 23 APR 2017 16:54:50

Low Channel – 5260 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 13.21 dBm



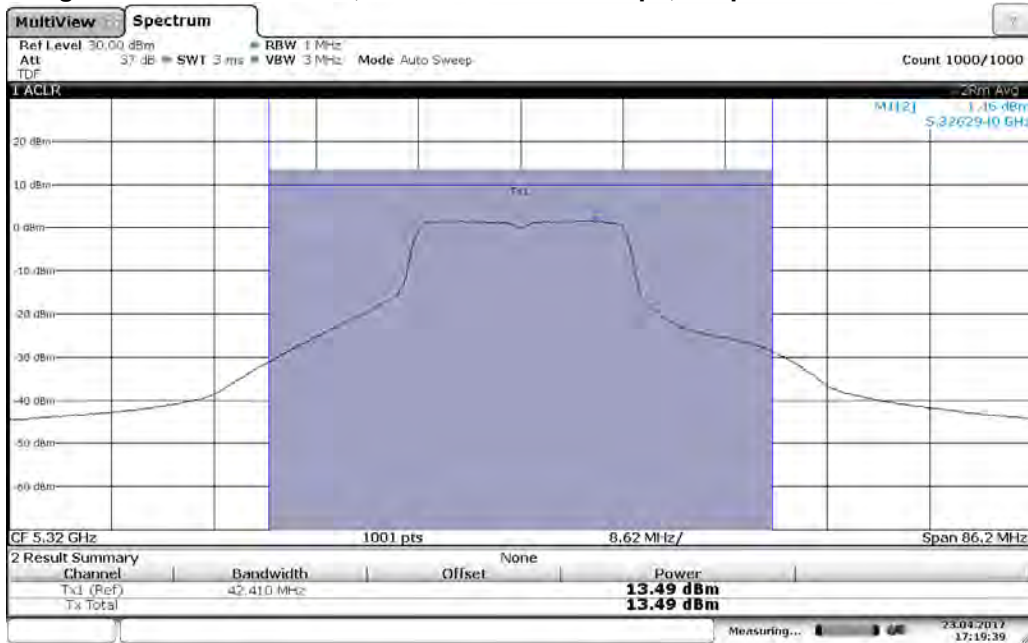
Date: 23 APR 2017 18:20:11

Mid Channel – 5300 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 13.73 dBm



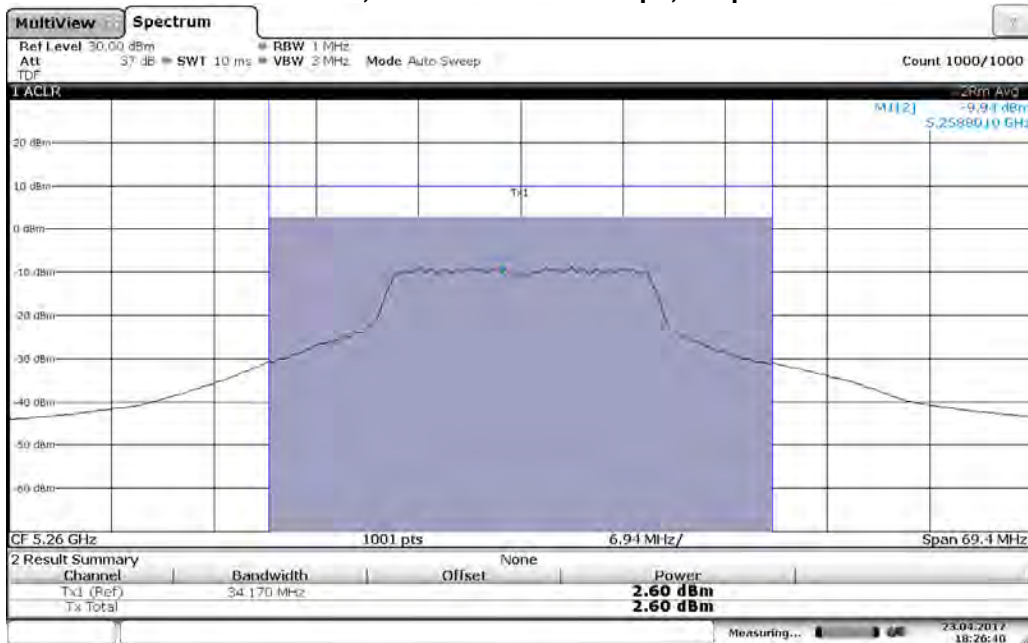
Date: 23 APR 2017 17:44:18

High Channel – 5320 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 13.49 dBm



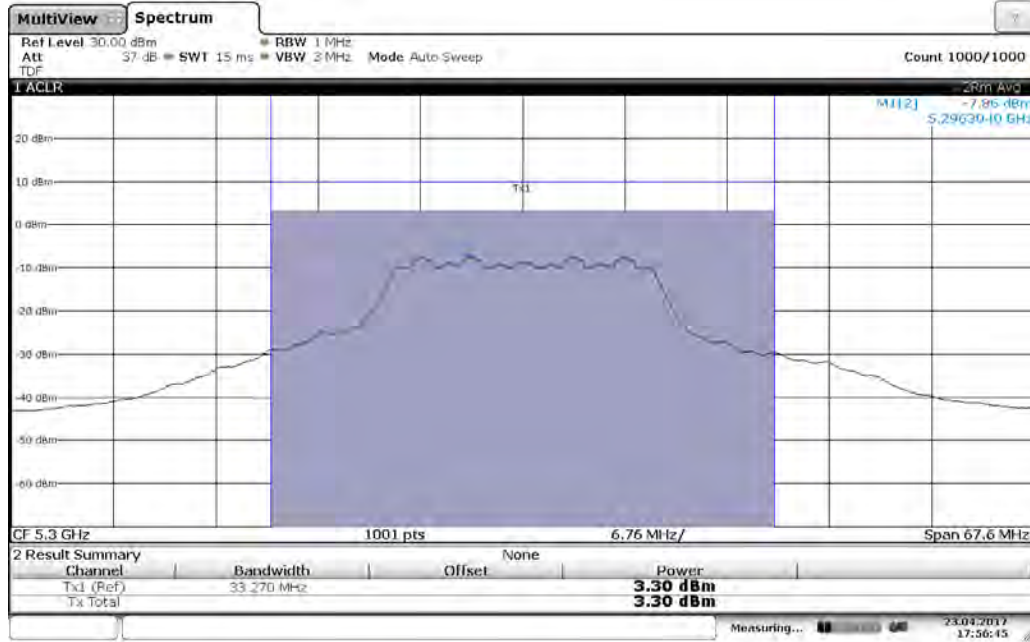
Date: 23 APR 2017 17:19:38

Low Channel – 5260 MHz, 802 11n MCS0 65 Mbps, Output Power: 2.60 dBm



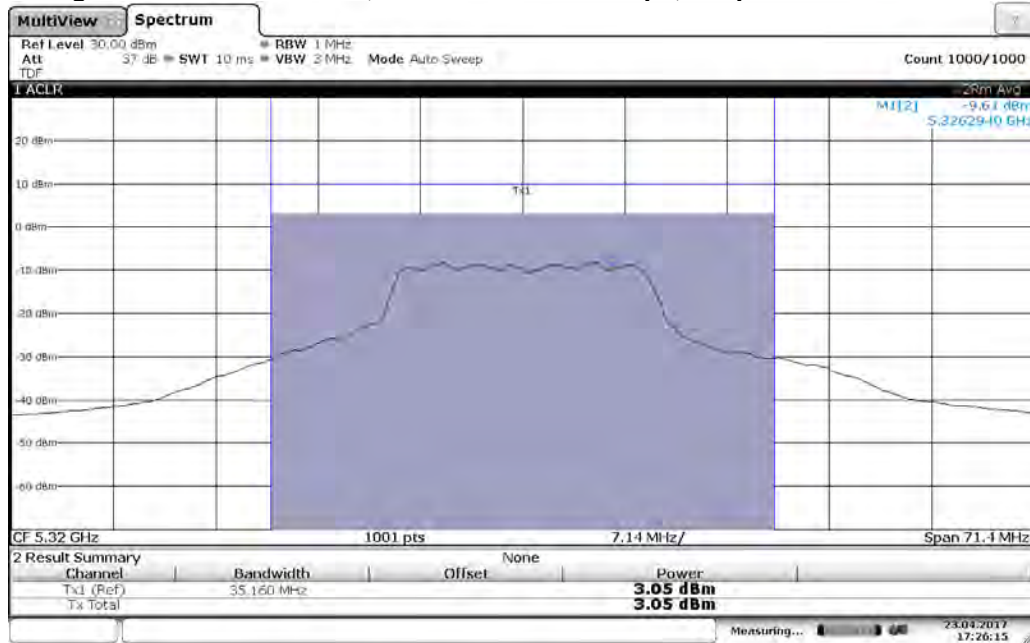
Date: 23 APR 2017 18:26:50

Mid Channel – 5300 MHz, 802 11n MCS0 65 Mbps, Output Power: 3.30 dBm



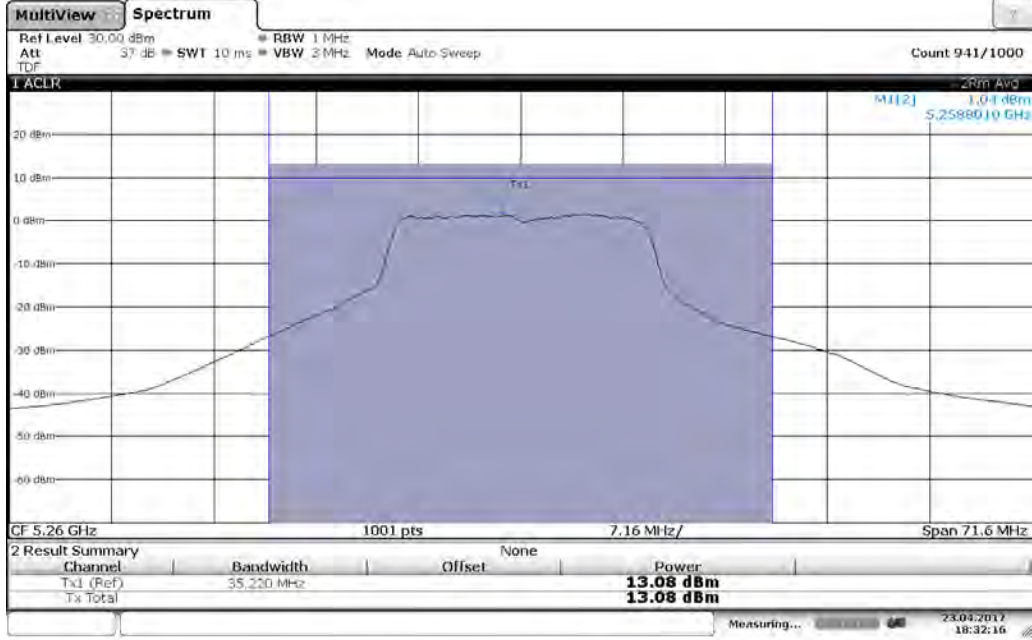
Date: 23 APR 2017 17:56:45

High Channel – 5320 MHz, 802 11n MCS0 65 Mbps, Output Power: 3.05 dBm



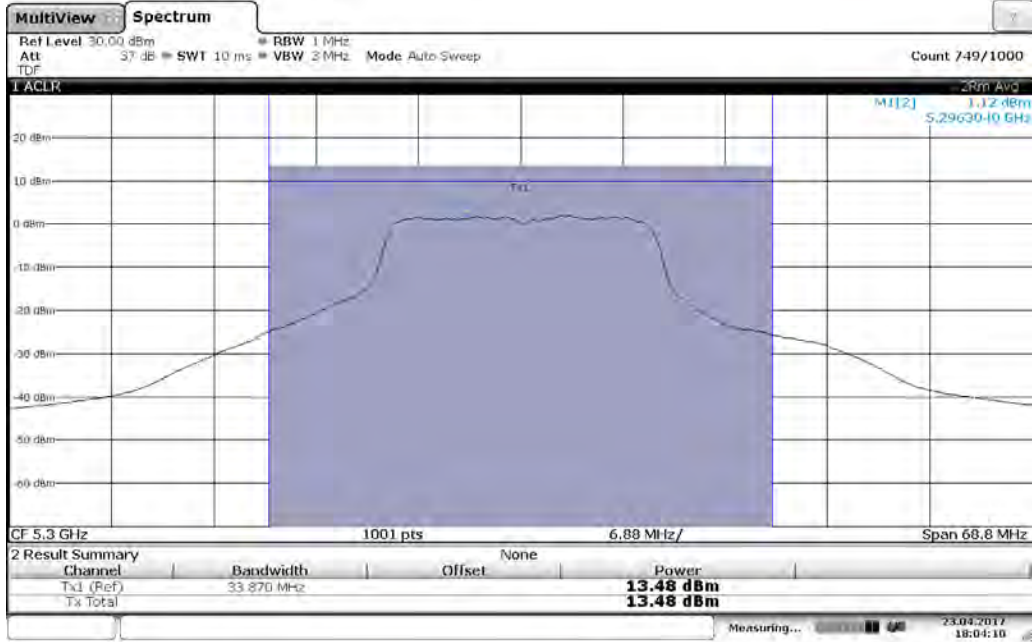
Date: 23 APR 2017 17:26:15

Low Channel – 5260 MHz, 802 11n MCS0MM 7.2 Mbps, Output Power: 13.08 dBm



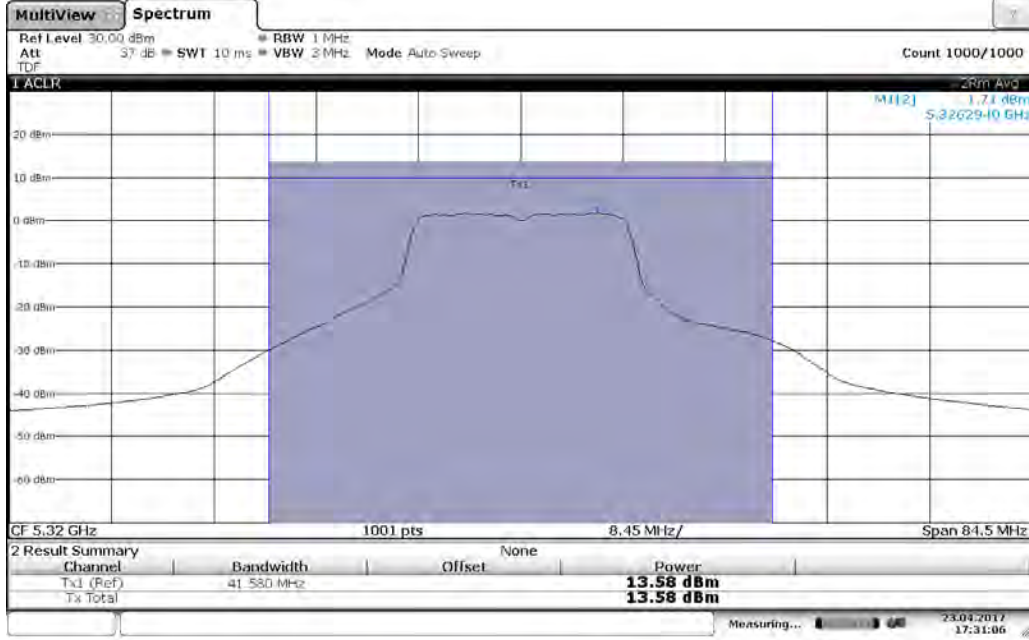
Date: 23. APR 2017 18:32:16

Mid Channel – 5300 MHz, 802 11n MCS0MM 7.2 Mbps, Output Power: 13.48 dBm

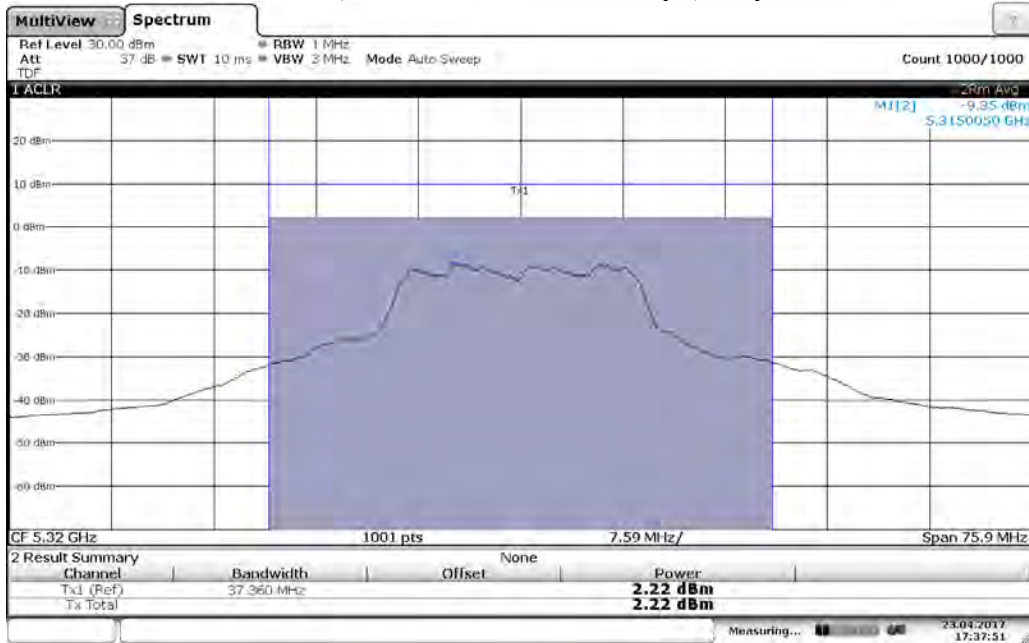


Date: 23. APR 2017 18:04:10

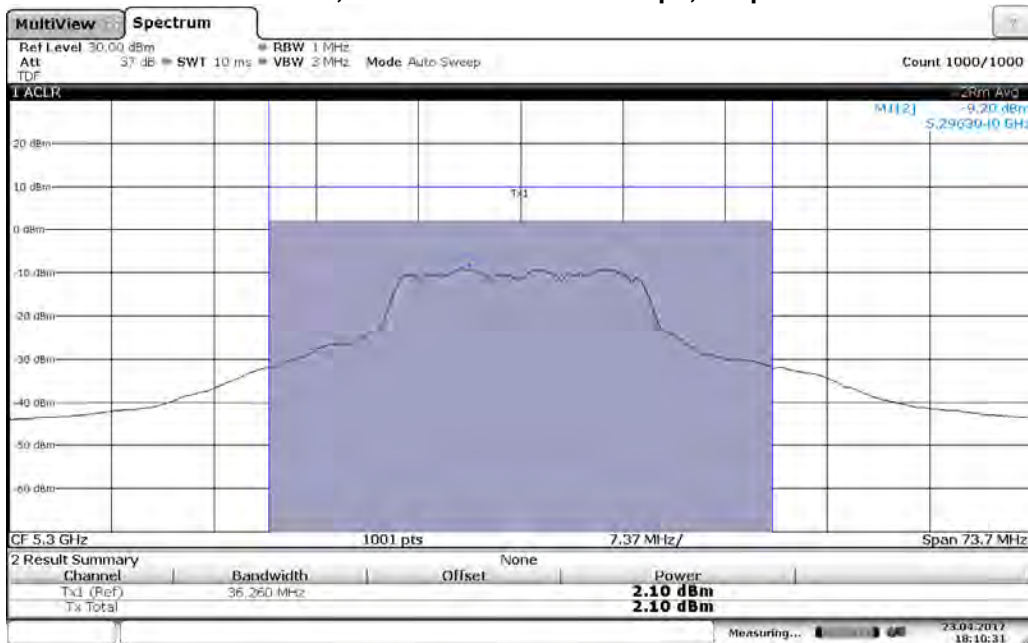
High Channel – 5320 MHz, 802 11n MCS0MM 7.2 Mbps, Output Power: 13.58 dBm



Low Channel – 5260 MHz, 802 11n MCS7MM 72 Mbps, Output Power: 2.22 dBm

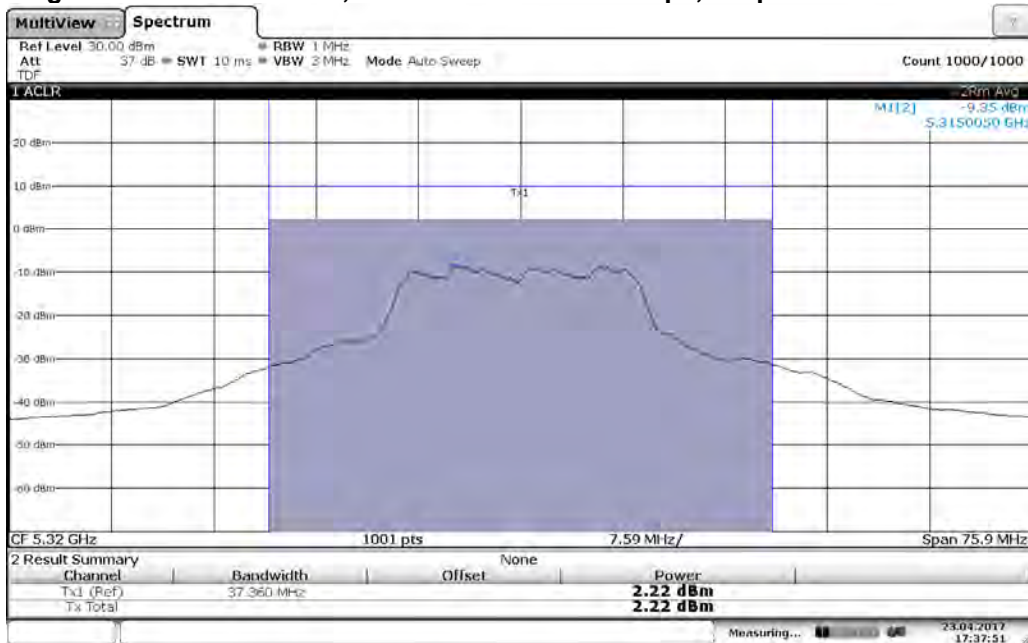


Mid Channel – 5300 MHz, 802 11n MCS7MM 72 Mbps, Output Power: 2.10 dBm



Date: 23.APR.2017 18:10:31

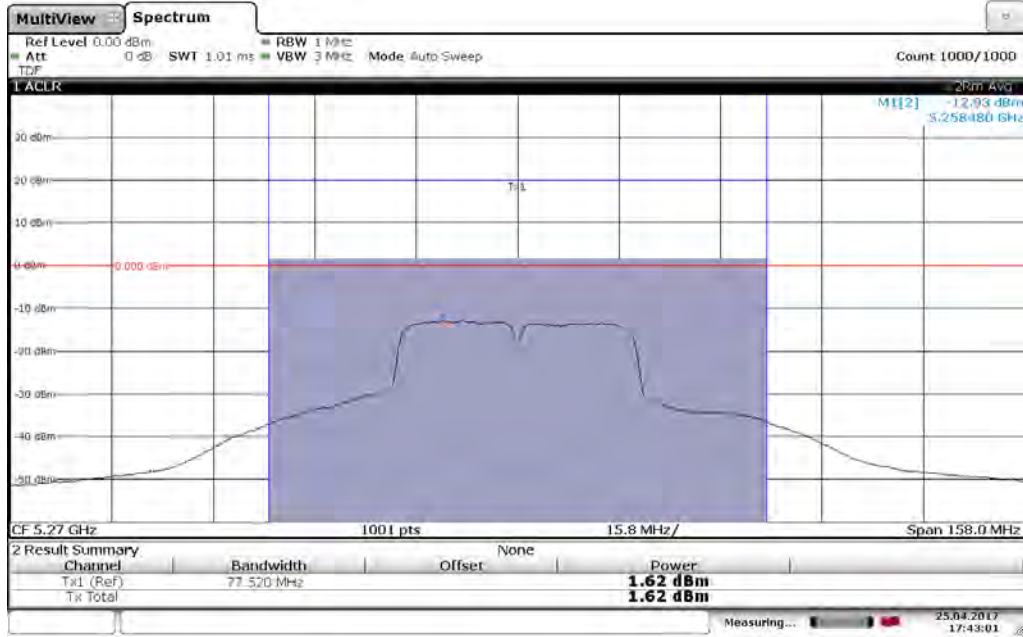
High Channel – 5320 MHz, 802 11n MCS7MM 72 Mbps, Output Power: 2.22 dBm



Date: 23.APR.2017 17:37:51

Band 2 (40 MHz Bandwidth)

Low Channel – 5270 MHz, 802 11n MCS0 13.5, Output Power: 1.62 dBm



Date: 25 APR 2017 17:43:00

Mid Channel – 5290 MHz, 802 11n MCS0 13.5, Output Power: 2.14 dBm



Date: 25 APR 2017 18:46:24

High Channel – 5310 MHz, 802 11n MCS0 13.5, Output Power: 2.09 dBm



Date: 25 APR, 2017 19:13:03

Low Channel – 5270 MHz, 802 11n MCS0 MM SG 15, Output Power: -21.17 dBm



Date: 25 APR, 2017 17:37:15

Mid Channel – 5290 MHz, 802 11n MCS0 MM SG 15, Output Power: 1.26 dBm



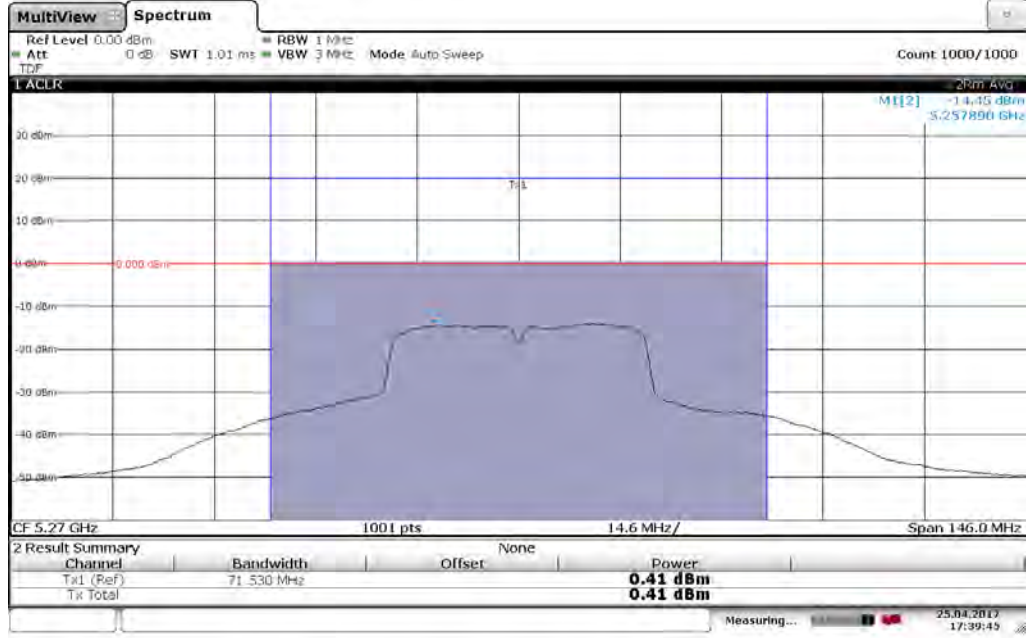
Date: 25 APR 2017 18:49:56

High Channel – 5310 MHz, 802 11n MCS0 MM SG 15, Output Power: 1.80 dBm



Date: 25 APR 2017 19:24:42

Low Channel – 5270 MHz, 802 11n MCS0 MM SG 150, Output Power: 0.41 dBm



Date: 25 APR, 2017 17:39:45

Mid Channel – 5290 MHz, 802 11n MCS0 MM SG 150, Output Power: -20.94 dBm



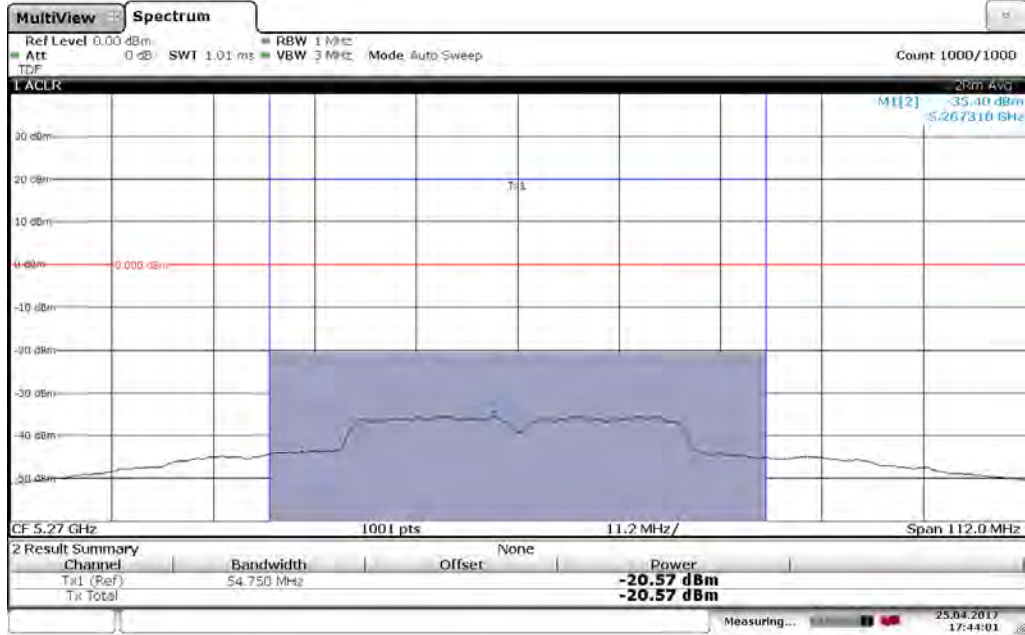
Date: 25 APR, 2017 18:51:26

High Channel – 5310 MHz, 802 11n MCS0 MM SG 150, Output Power: -21.42 dBm



Date: 25 APR 2017 19:22:42

Low Channel – 5270 MHz, 802 11n MCS7 135 Mbps, Output Power: -20.57 dBm



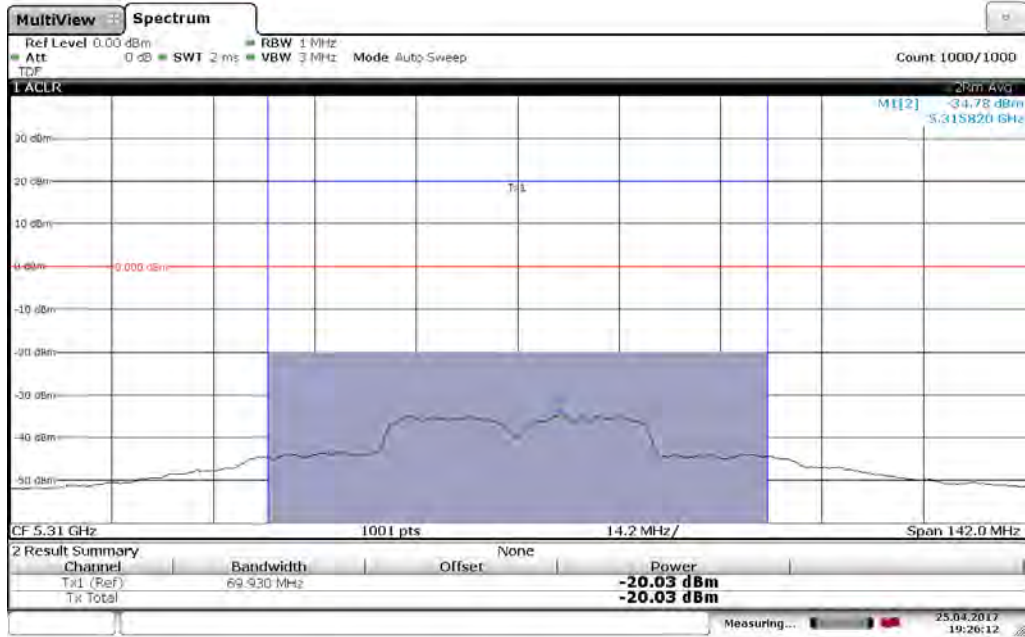
Date: 25 APR 2017 17:44:00

Mid Channel – 5290 MHz, 802 11n MCS7 135 Mbps, Output Power: -20.19 dBm



Date: 25 APR 2017 18:48:05

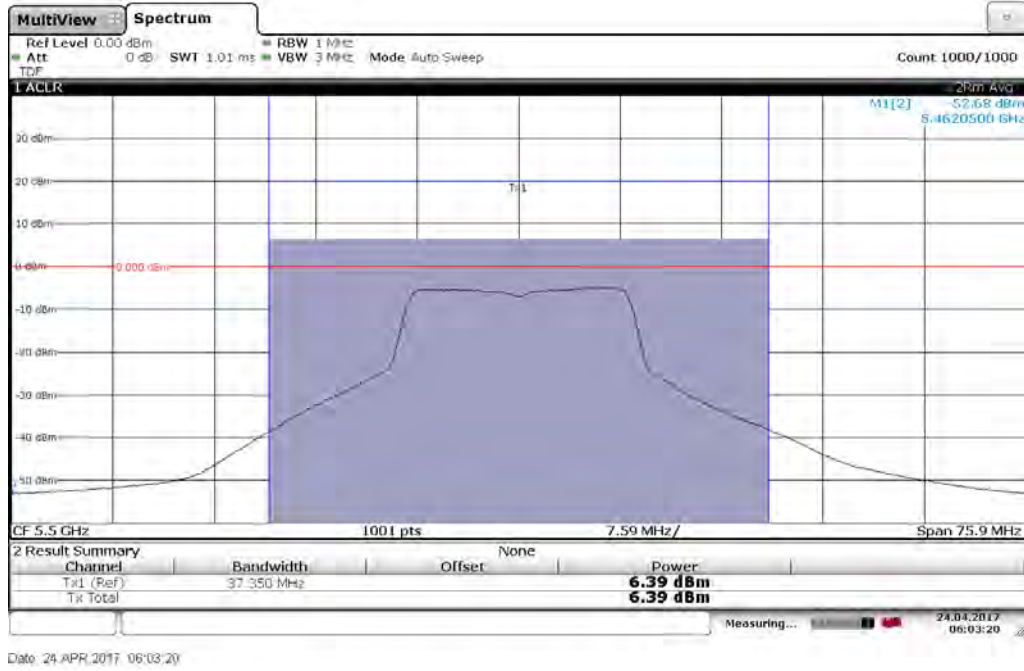
High Channel – 5310 MHz, 802 11n MCS7 135 Mbps, Output Power: -20.03 dBm



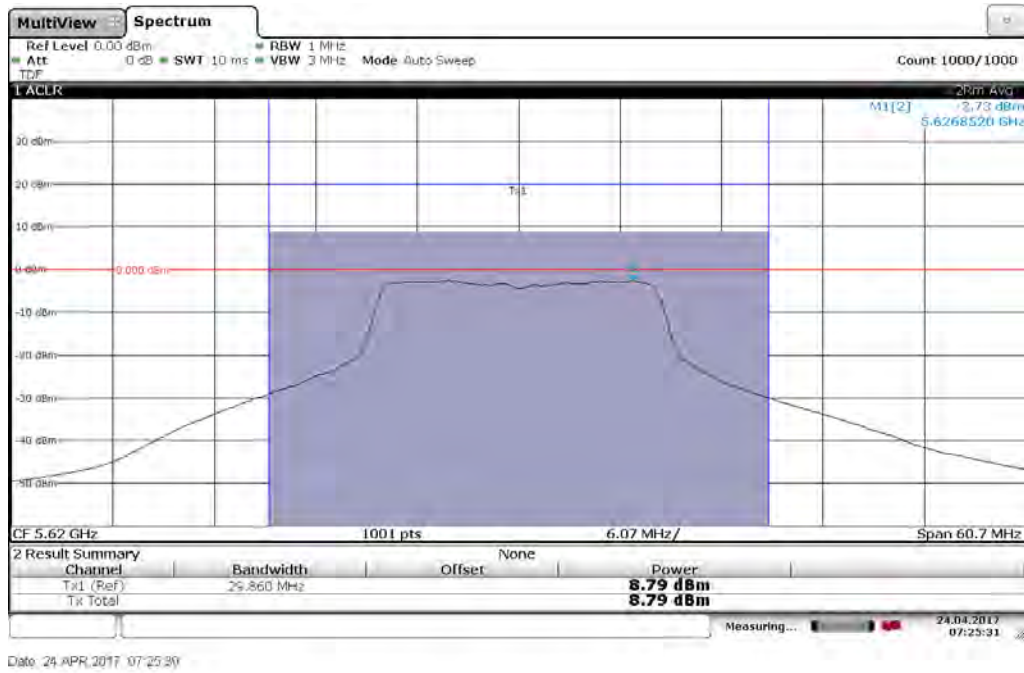
Date: 25 APR 2017 19:26:12

Band 3 (20 MHz Bandwidth)

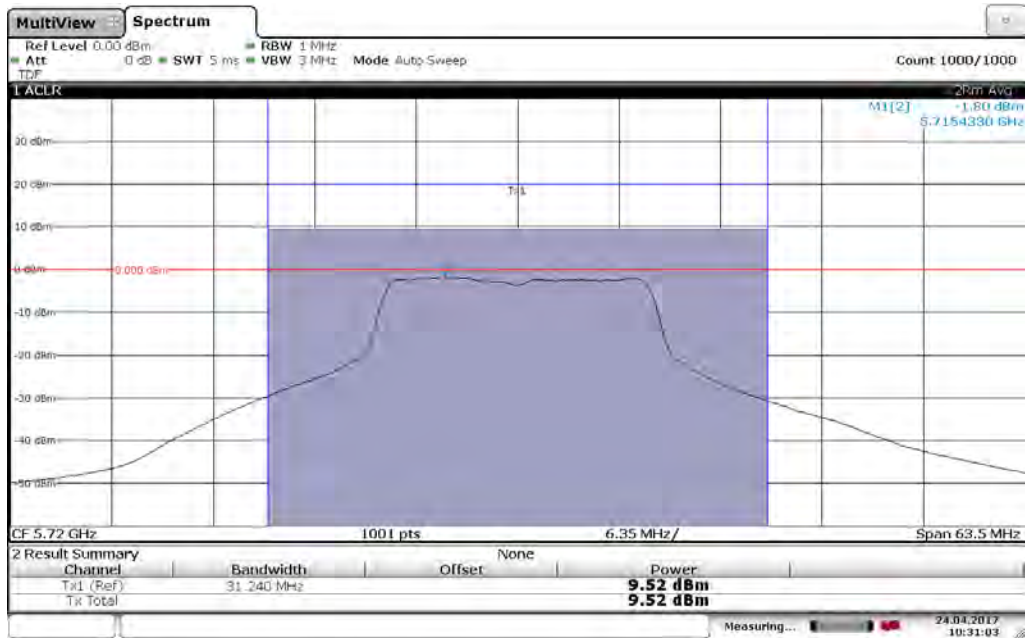
Low Channel – 5500 MHz, 802 11g 6 Mbps, Output Power: 6.39 dBm



Mid Channel – 5620 MHz, 802 11g 6 Mbps, Output Power: 8.79 dBm

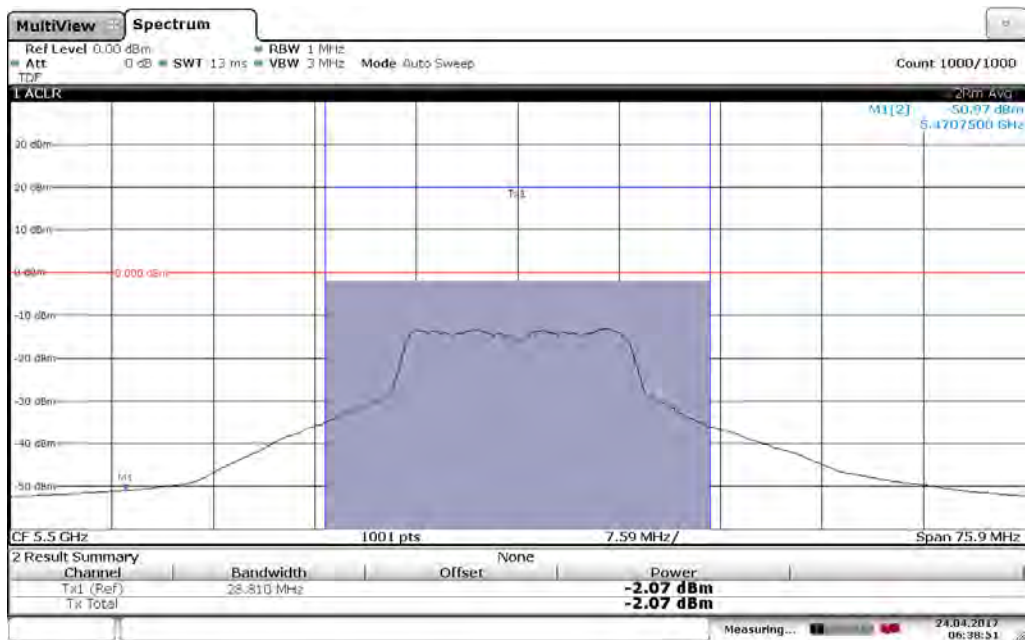


High Channel – 5720 MHz, 802 11g 6 Mbps, Output Power: 9.52 dBm



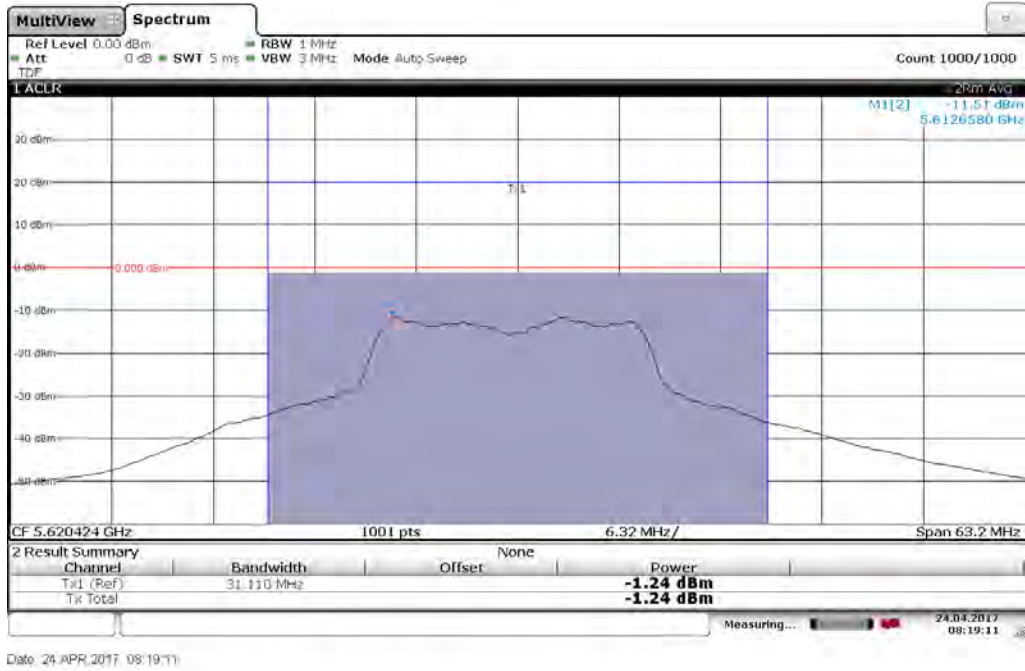
Date: 24 APR 2017 10:31:02

Low Channel – 5500 MHz, 802 11g 54 Mbps, Output Power: -2.07 dBm

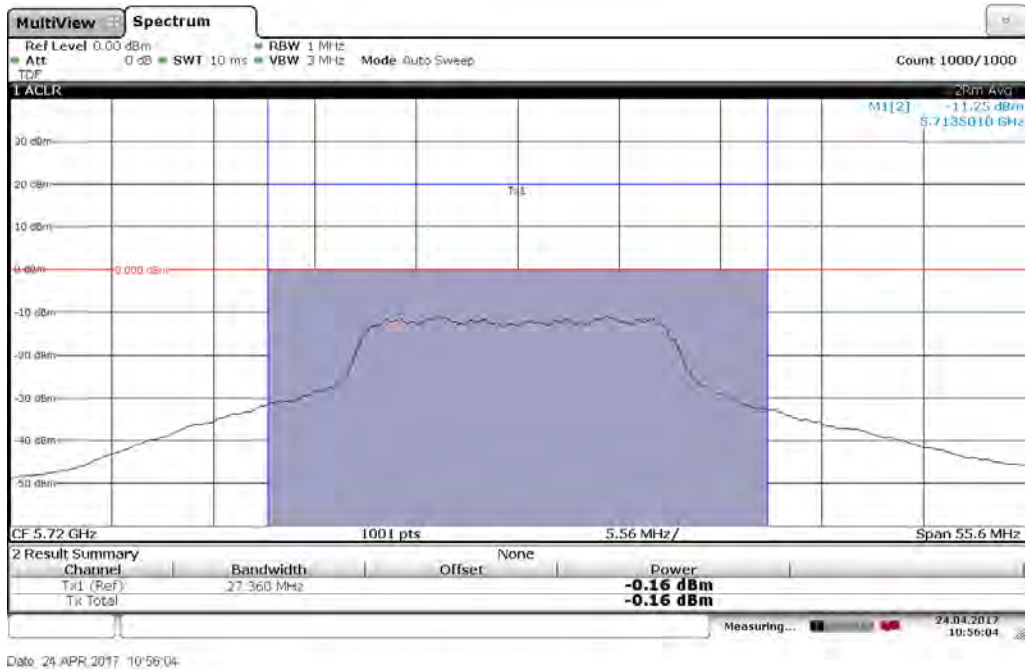


Date: 24 APR 2017 06:38:50

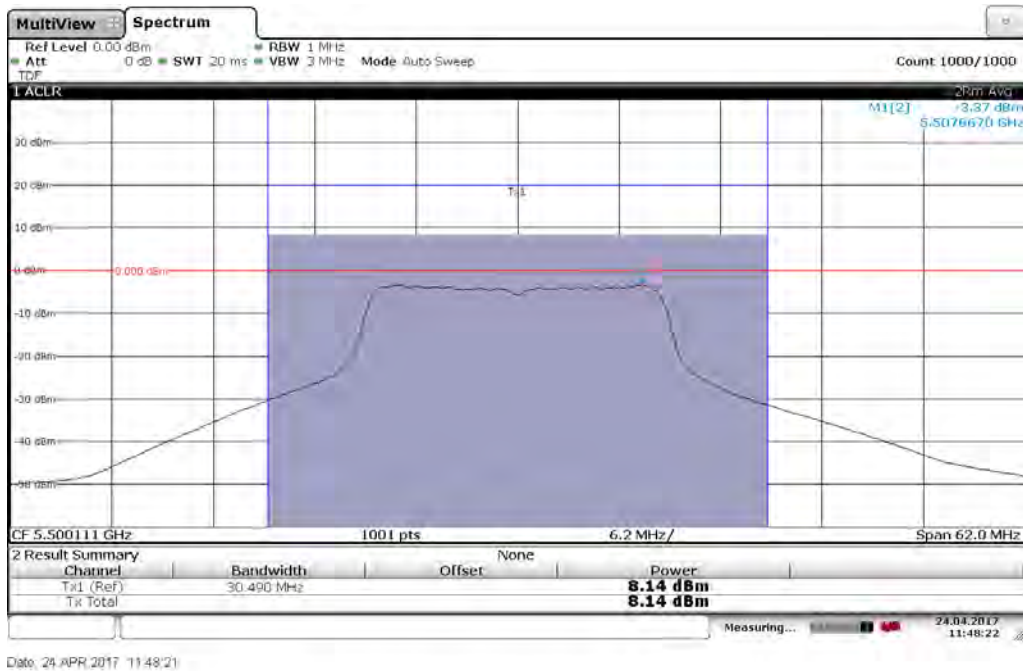
Mid Channel – 5620 MHz, 802 11g 54 Mbps, Output Power: -1.24 dBm



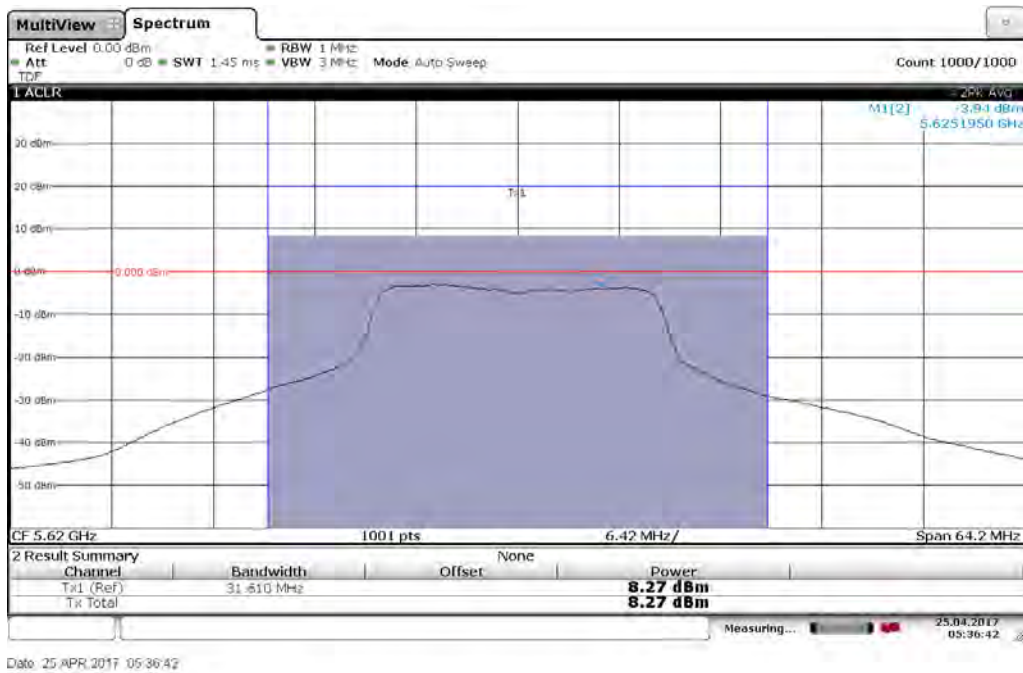
High Channel – 5720 MHz, 802 11g 54 Mbps, Output Power: -0.16 dBm



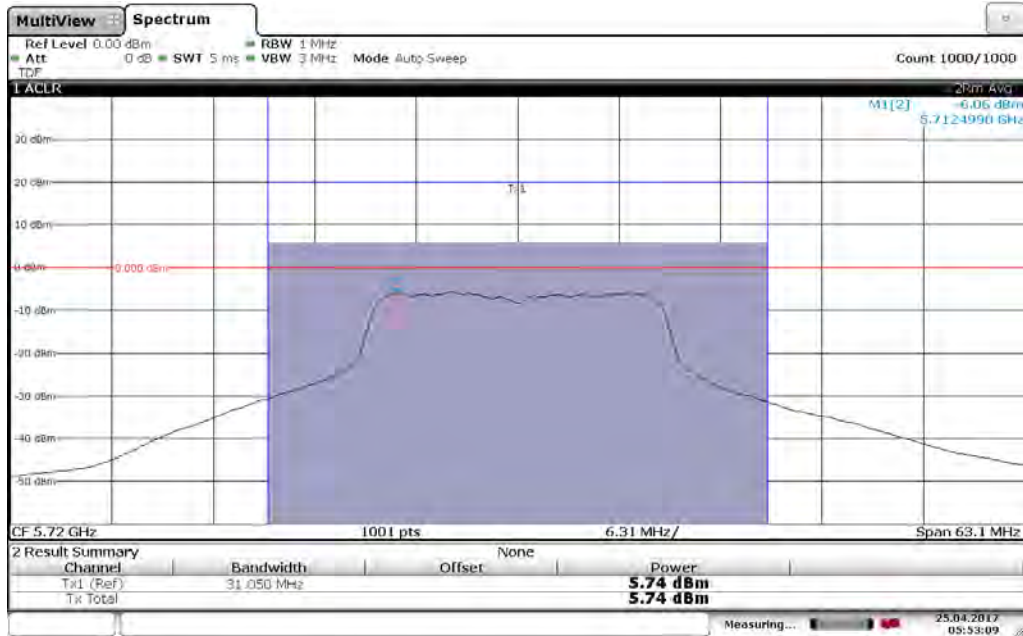
Low Channel – 5500 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 8.14 dBm



Mid Channel – 5620 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 8.27 dBm

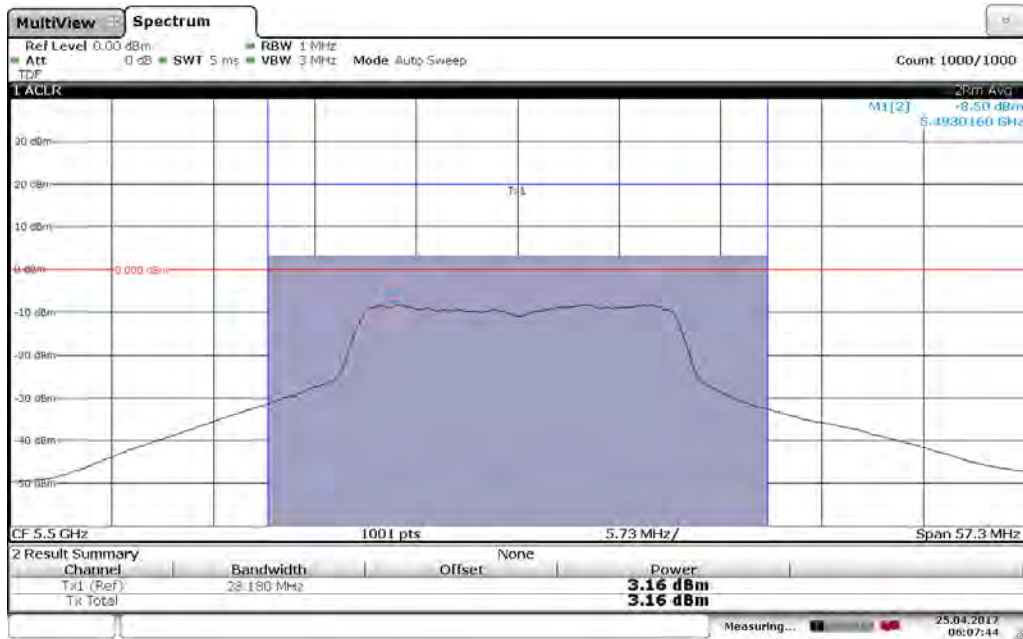


High Channel – 5720 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 5.74 dBm



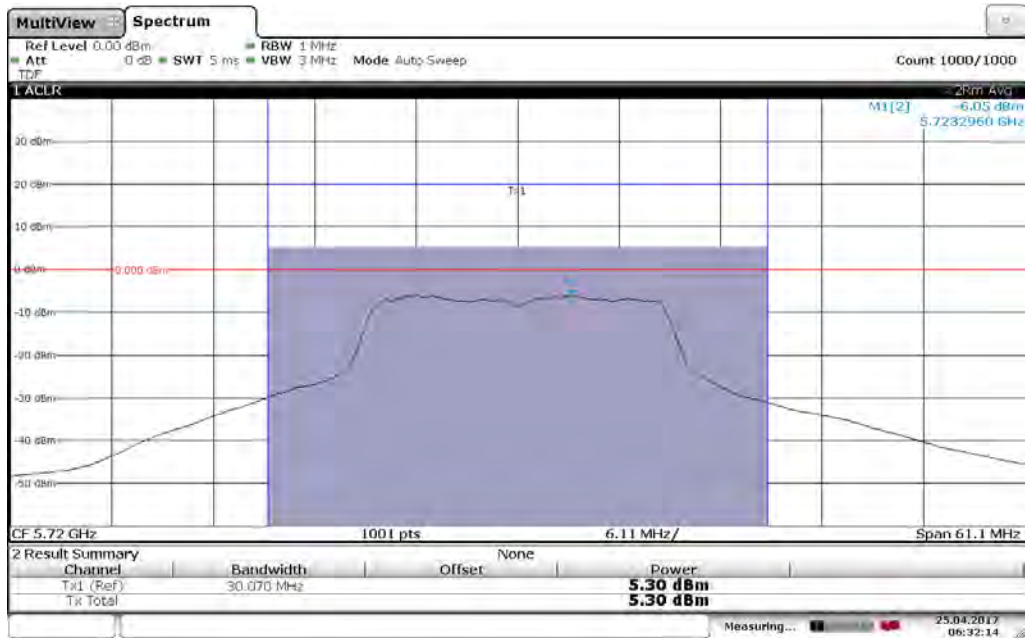
Date: 25 APR 2017 05:53:09

Low Channel – 5500 MHz, 802 11n MCS0 SG 7.2 Mbps, Output Power: 3.16 dBm



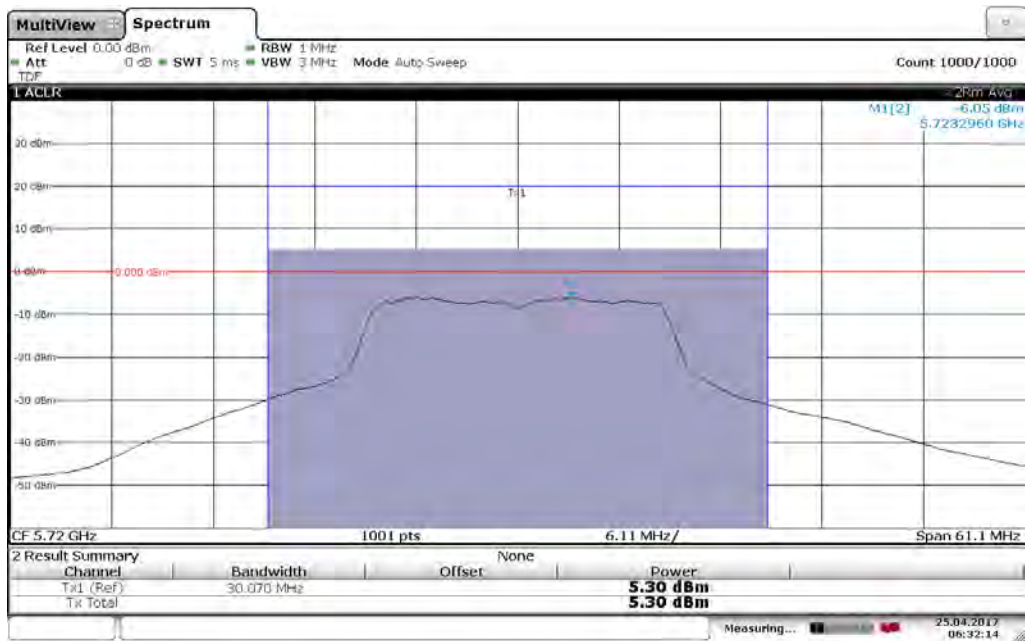
Date: 25 APR 2017 06:07:44

Mid Channel – 5720 MHz, 802 11n MCS0 SG 7.2 Mbps,, Output Power: 5.3 dBm



Date: 25 APR 2017 06:32:14

High Channel – 5720 MHz, 802 11n MCS0 SG 7.2 Mbps, Output Power: 5.30 dBm



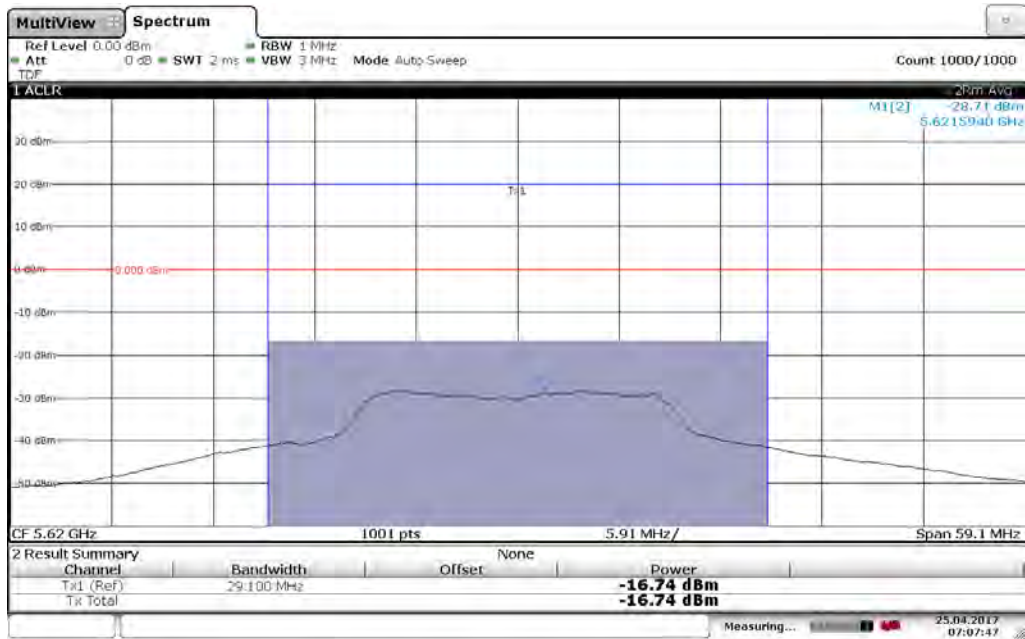
Date: 25 APR 2017 06:32:14

Low Channel – 5500 MHz, 802 11n MCS7 65 Mbps, Output Power: -16.91 dBm



Date: 25 APR 2017 06:42:40

Mid Channel – 5620 MHz, 802 11n MCS7 65 Mbps, Output Power: -16.74 dBm



Date: 25 APR 2017 07:07:46

High Channel – 5720 MHz, 802 11n MCS7 65 Mbps, Output Power: -16.36 dBm



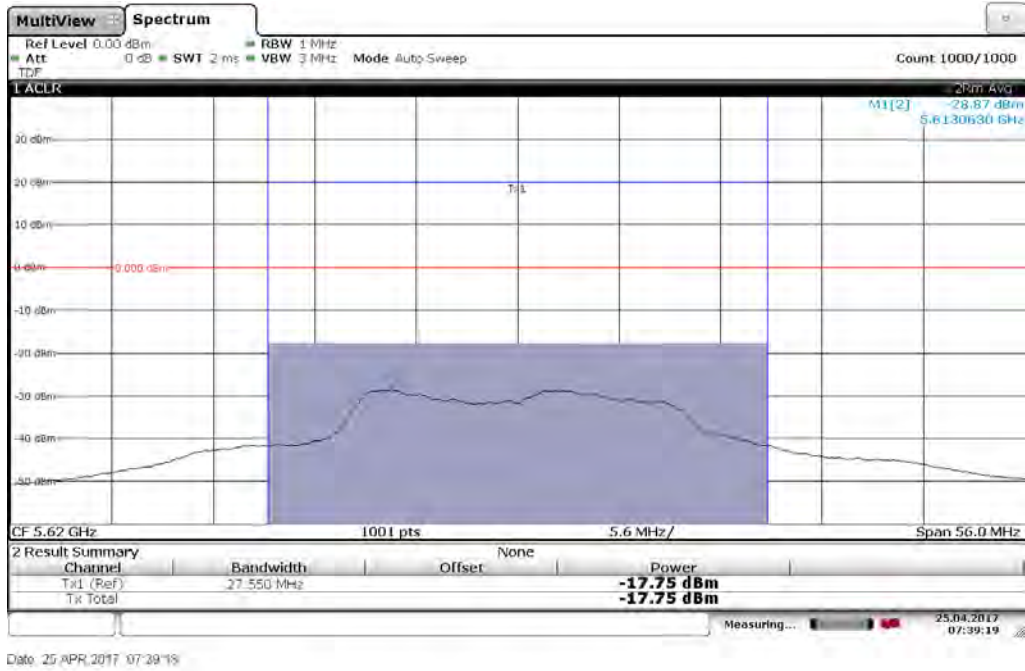
Date: 25 APR 2017 07:16:57

Low Channel – 5500 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Output Power: -18.56 dBm

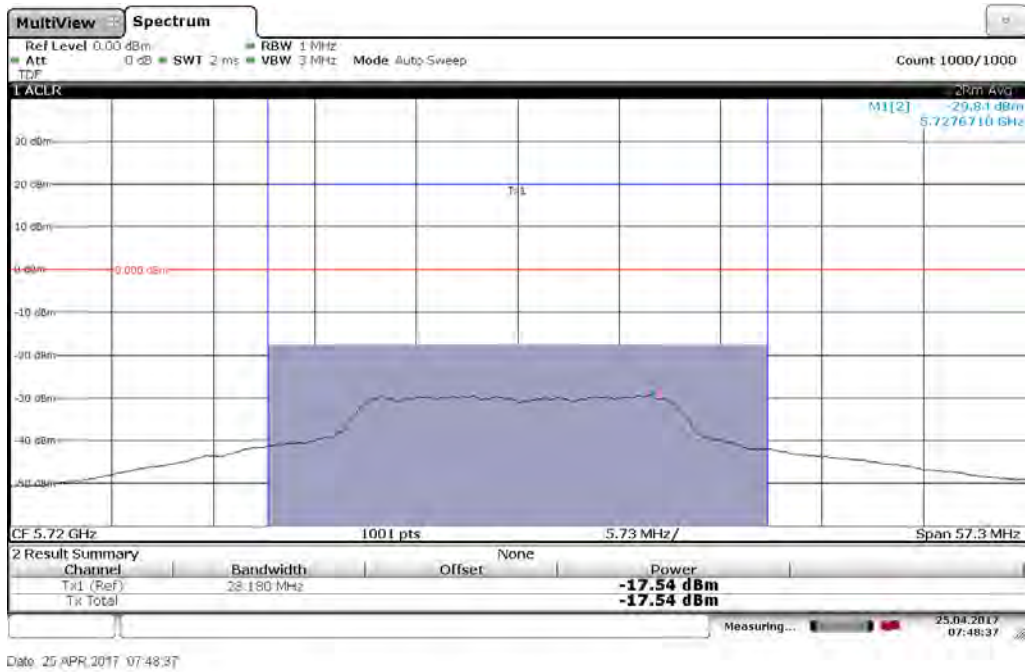


Date: 25 APR 2017 07:28:34

Mid Channel – 5620 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Output Power: -17.75 dBm



High Channel – 5720 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Output Power: -17.54 dBm



Band 3 (40 MHz Bandwidth)

Low Channel – 5510 MHz, 802 11n MCS0 13.5 Mbps, Output Power: -0.38 dBm



Date: 26 APR 2017 05:57:40

Mid Channel – 5610 MHz, 802 11n MCS0 13.5 Mbps, Output Power: -0.28 dBm



Date: 26 APR 2017 06:48:04

High Channel – 5710 MHz, 802 11n MCS0 13.5 Mbps, Output Power: 1.19 dBm



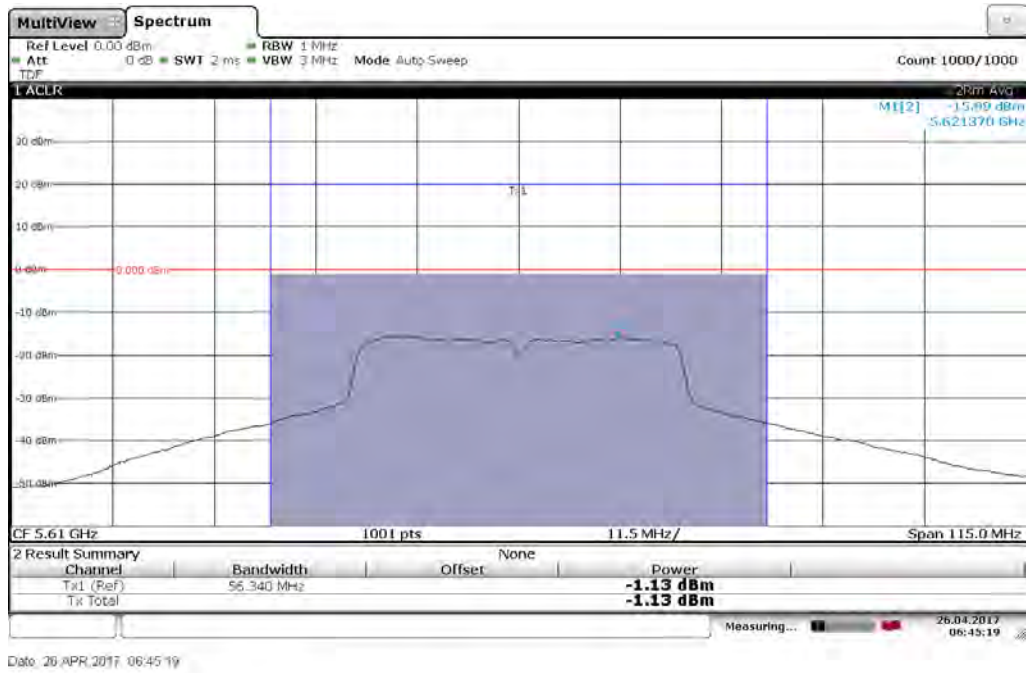
Date: 26 APR 2017 08:26:31

Low Channel – 5510 MHz, 802 11n MCS0 MM SG 15 Mbps, Output Power: -1.33 dBm

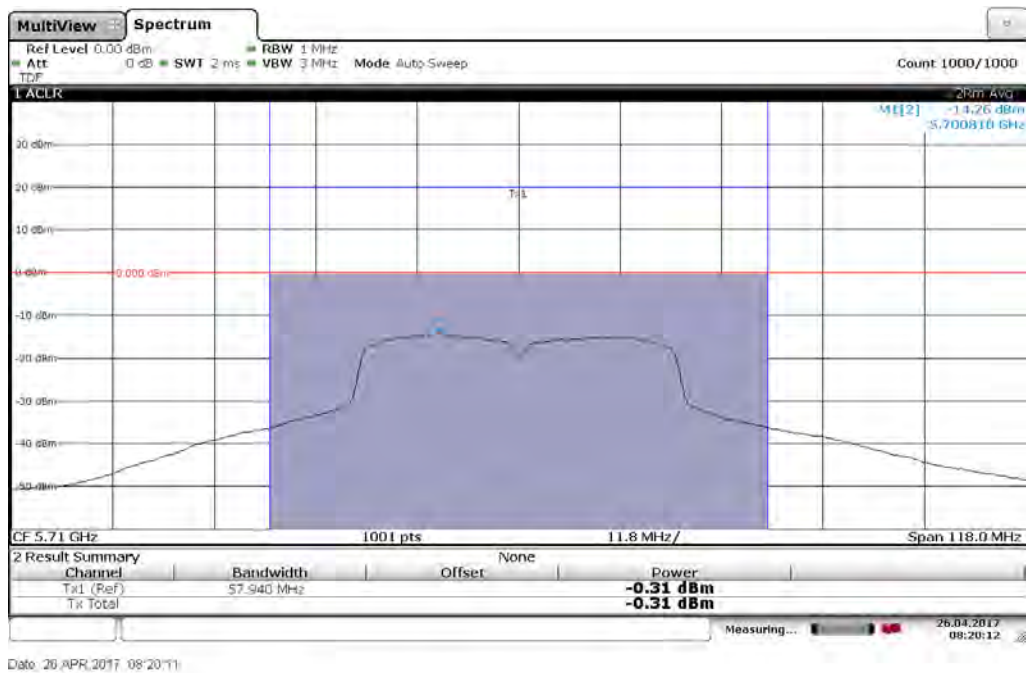


Date: 26 APR 2017 05:54:35

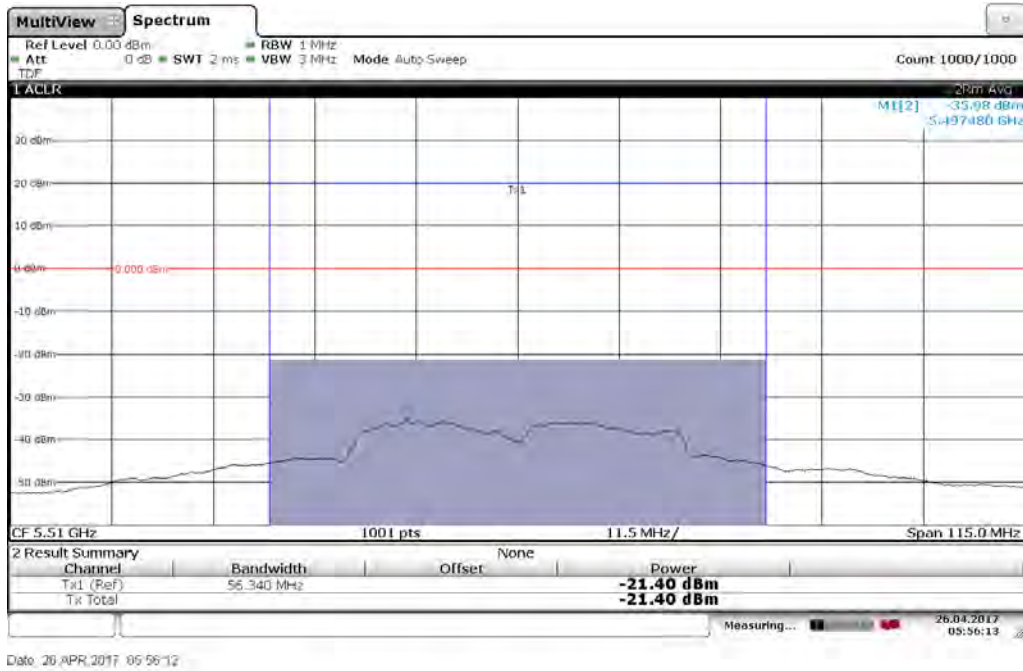
Mid Channel – 5610 MHz, 802 11n MCS0 MM SG 15 Mbps, Output Power: -1.13 dBm



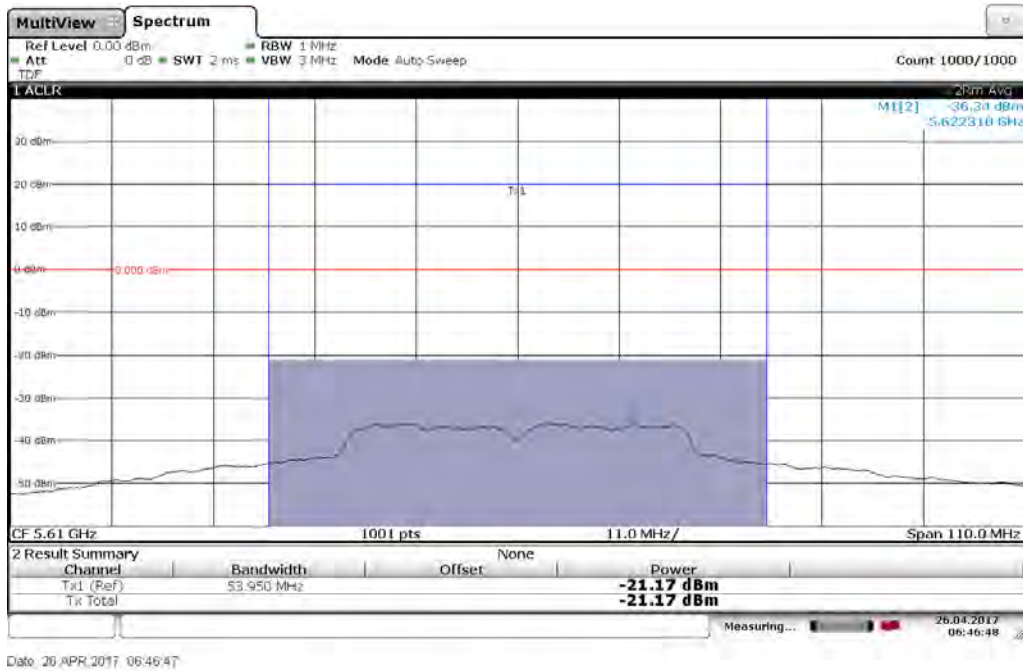
High Channel – 5710 MHz, 802 11n MCS0 MM SG 15 Mbps, Output Power: -0.31 dBm



Low Channel – 5510 MHz, 802 11n MCS7 135 Mbps, Output Power: -21.40 dBm



Mid Channel – 5610 MHz, 802 11n MCS7 135 Mbps, Output Power: -21.17 dBm



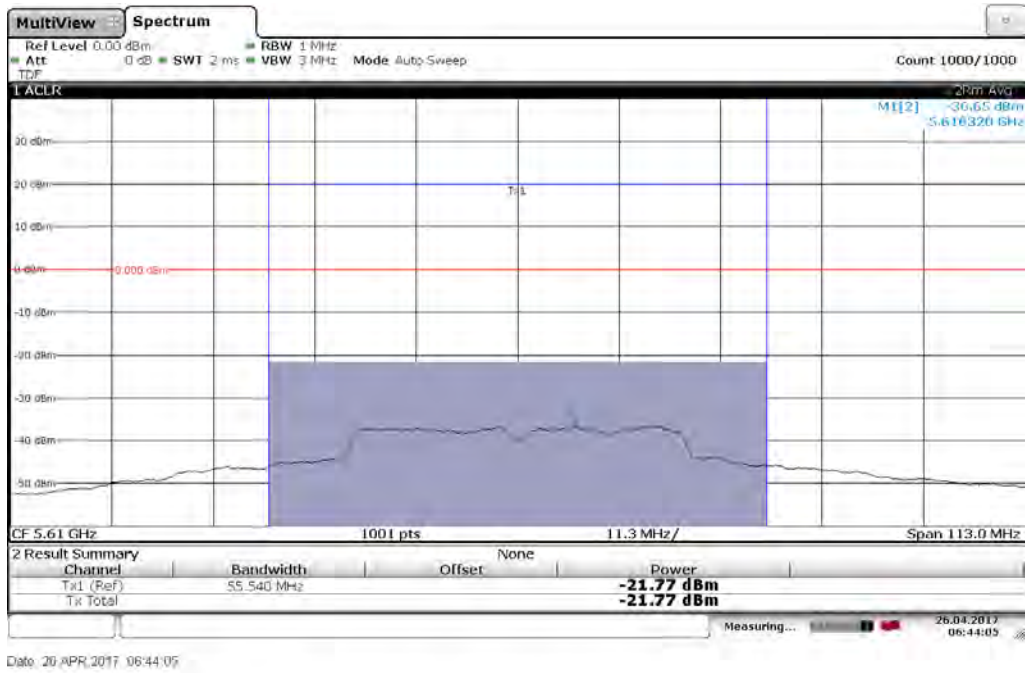
High Channel – 5610 MHz, 802 11n MCS7 135 Mbps, Output Power: -19.77 dBm



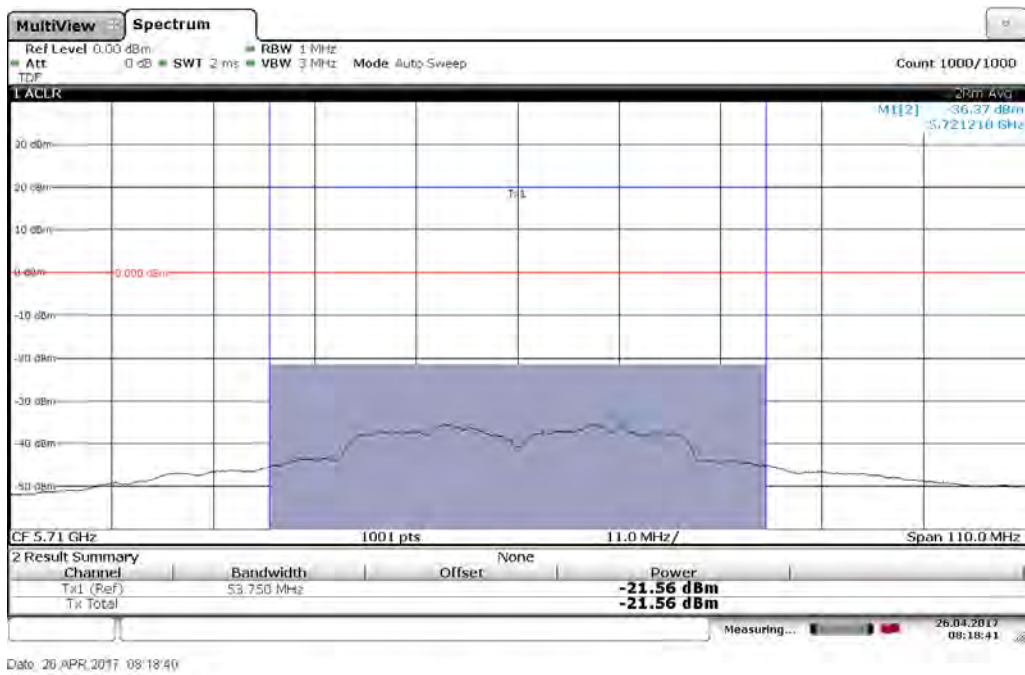
Low Channel – 5510 MHz, 802 11n MCS7 MM SG 150 Mbps, Output Power: -22.12 dBm



Mid Channel – 5610 MHz, 802 11n MCS7 MM SG 150 Mbps, Output Power: -21.77 dBm

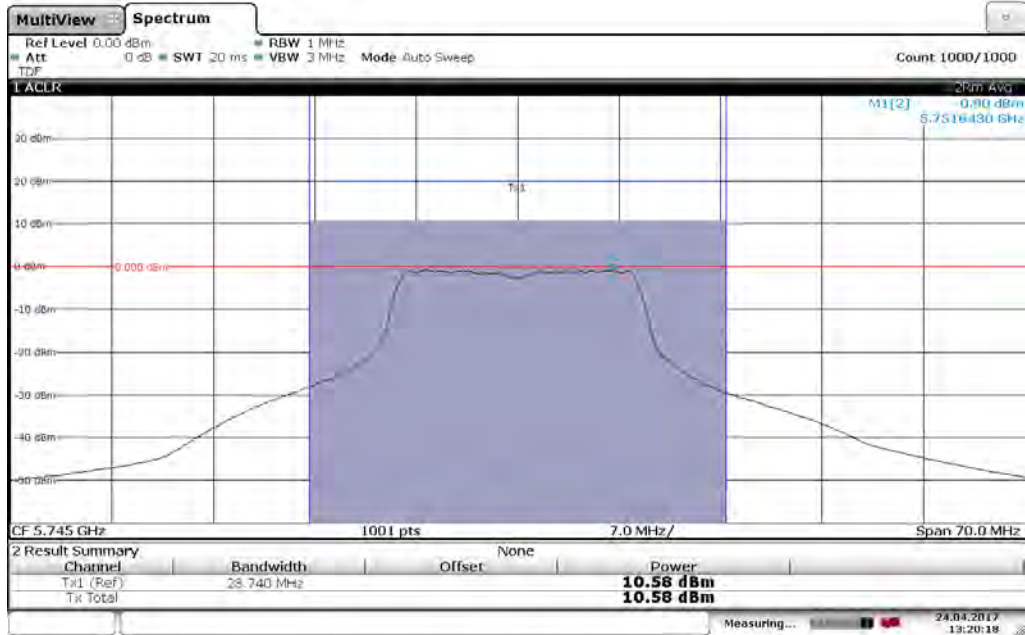


High Channel – 5710 MHz, 802 11n MCS7 MM SG 150 Mbps, Output Power: -21.56 dBm



Band 4 (20 MHz Bandwidth)

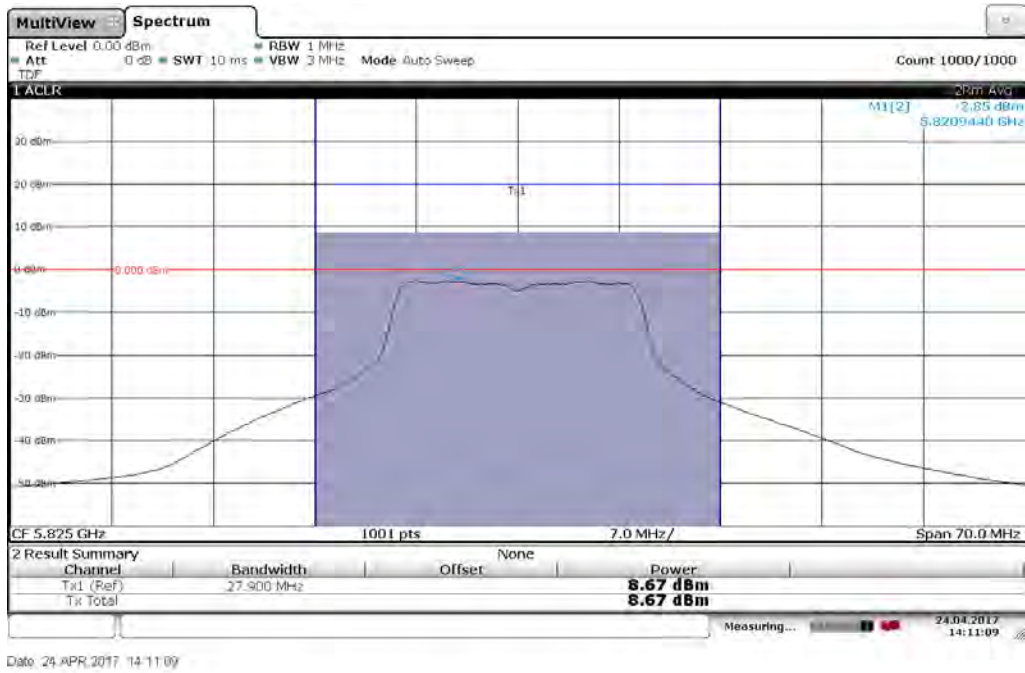
Low Channel – 5745 MHz, 802 11ag 6 Mbps, Output Power: 10.58 dBm



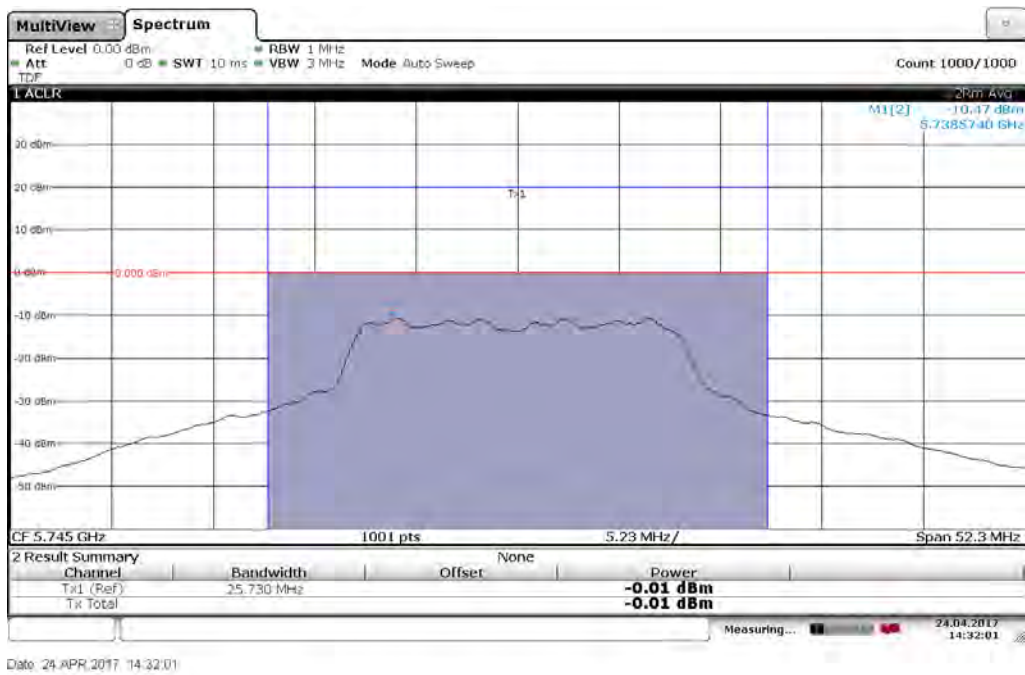
Mid Channel – 5785 MHz, 802 11ag 6 Mbps, Output Power: 9.14 dBm



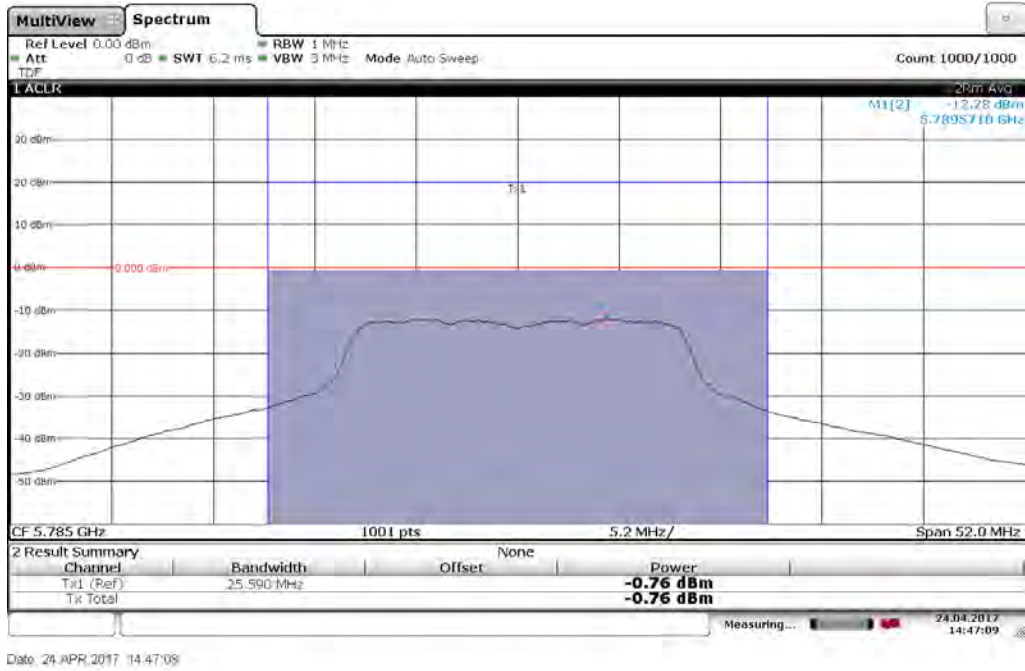
High Channel – 5825 MHz, 802 11ag 6 Mbps, Output Power: 8.67 dBm



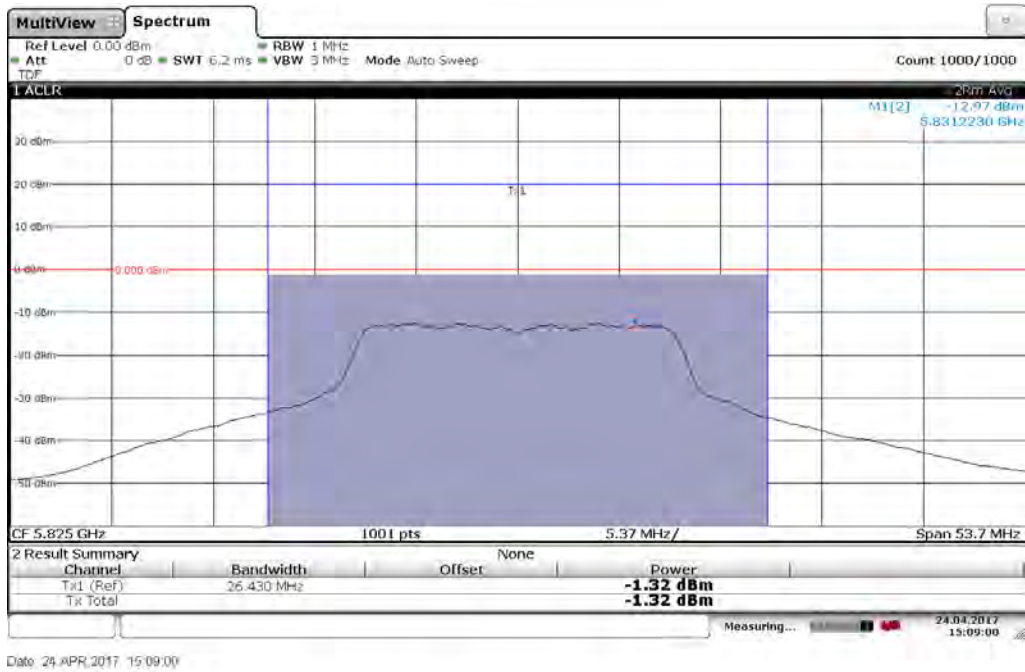
Low Channel – 5745 MHz, 802 11ag 54 Mbps, Output Power: -0.01 dBm



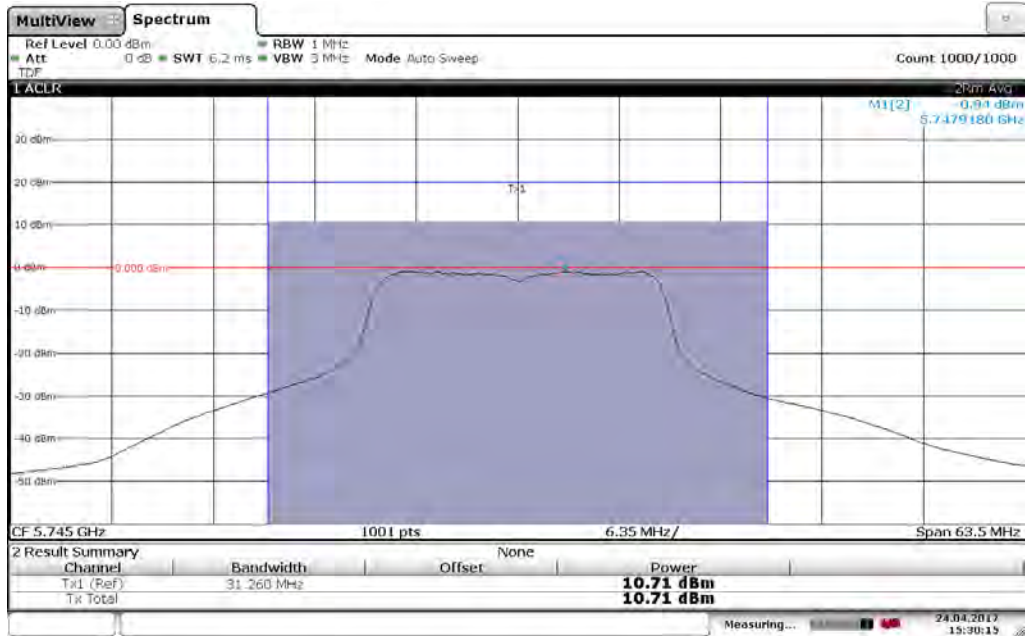
Mid Channel – 5785 MHz, 802 11ag 54 Mbps, Output Power: -0.76 dBm



High Channel – 5825 MHz, 802 11ag 54 Mbps, Output Power: -1.32 dBm

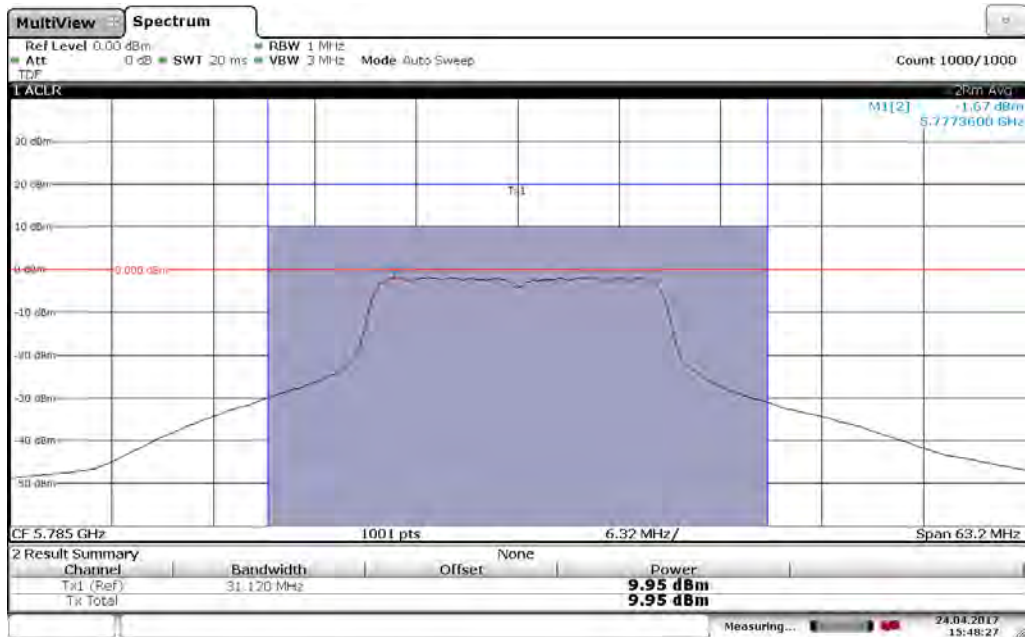


Low Channel – 5745 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 10.71 dBm



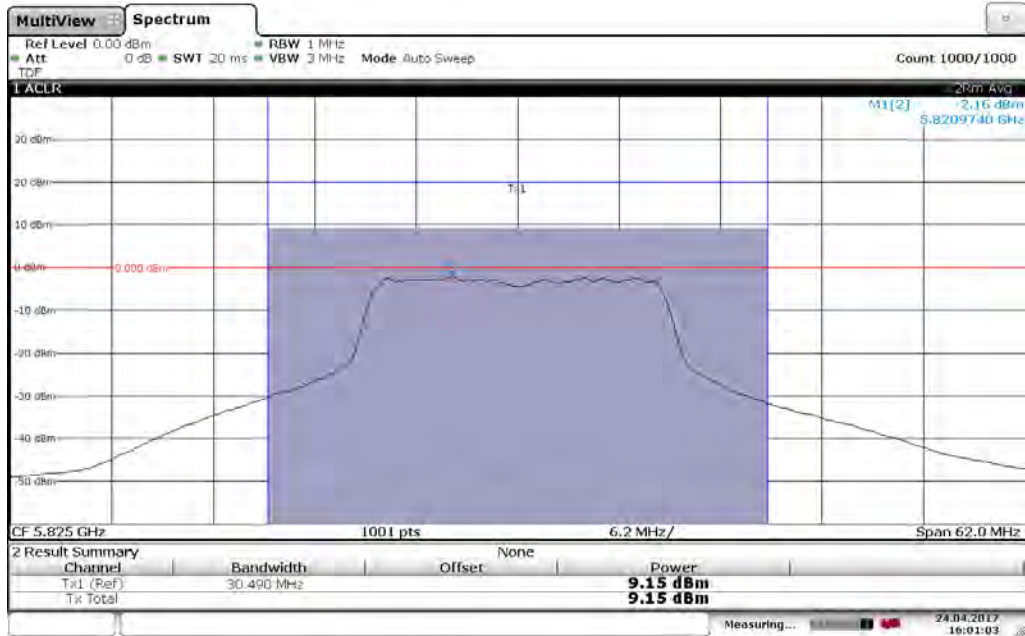
Date: 24 APR 2017 15:30:15

Mid Channel – 5785 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 9.95 dBm

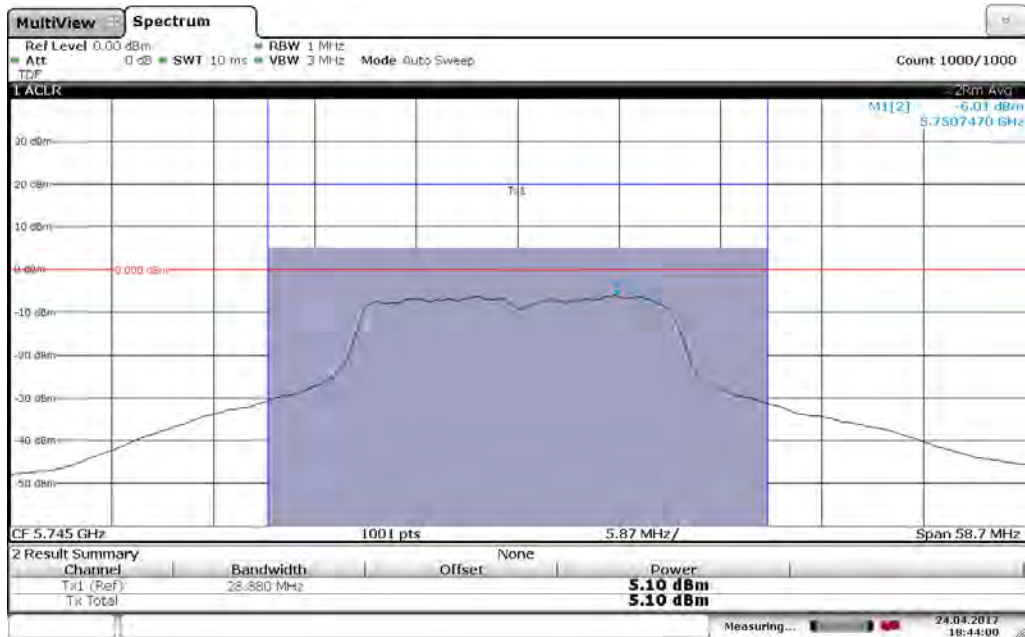


Date: 24 APR 2017 15:48:27

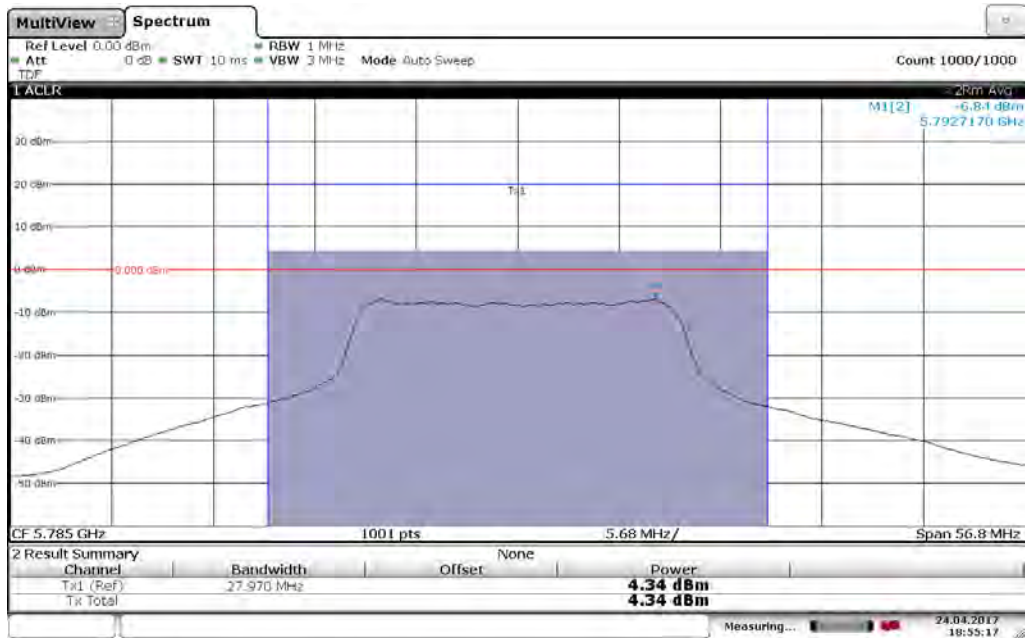
High Channel – 5825 MHz, 802 11n MCS0 6.5 Mbps, Output Power: 9.15 dBm



Low Channel – 5745 MHz, 802 11n MCS0 MM SG 7.2 Mbps, Output Power: 5.10 dBm

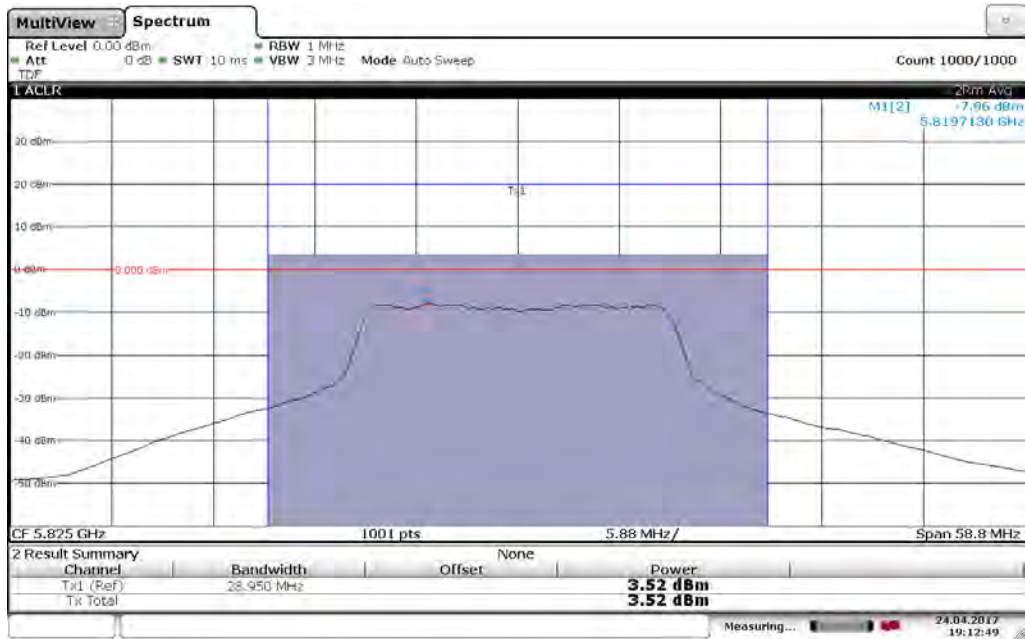


Mid Channel – 5785 MHz, 802 11n MCS0 MM SG 7.2 Mbps, Output Power: 4.34 dBm



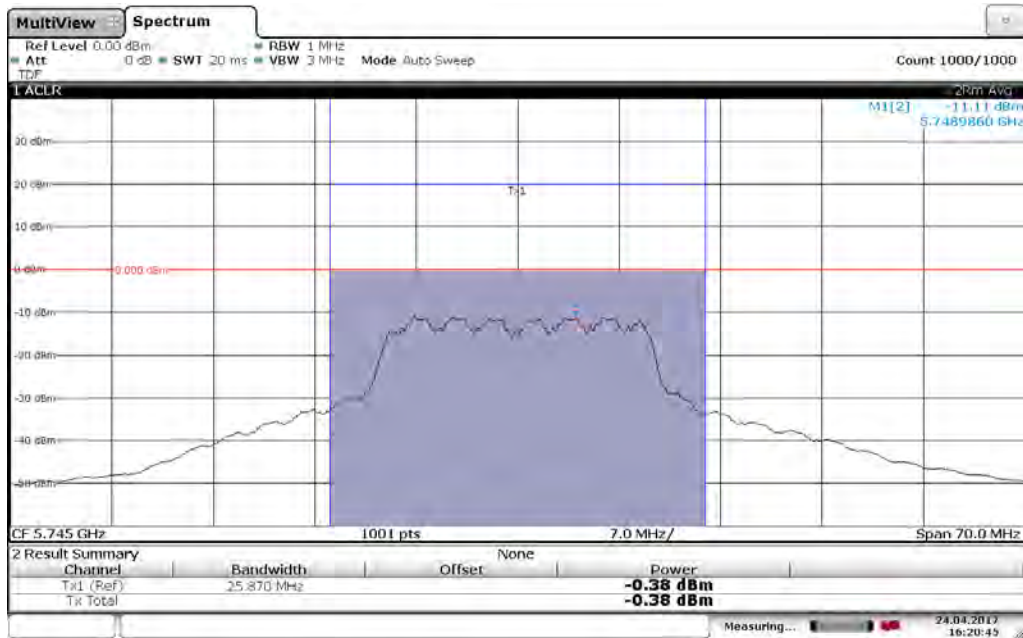
Date: 24 APR 2017 18:55:17

High Channel – 5825 MHz, 802 11n MCS0 MM SG 7.2 Mbps, Output Power: 3.52 dBm

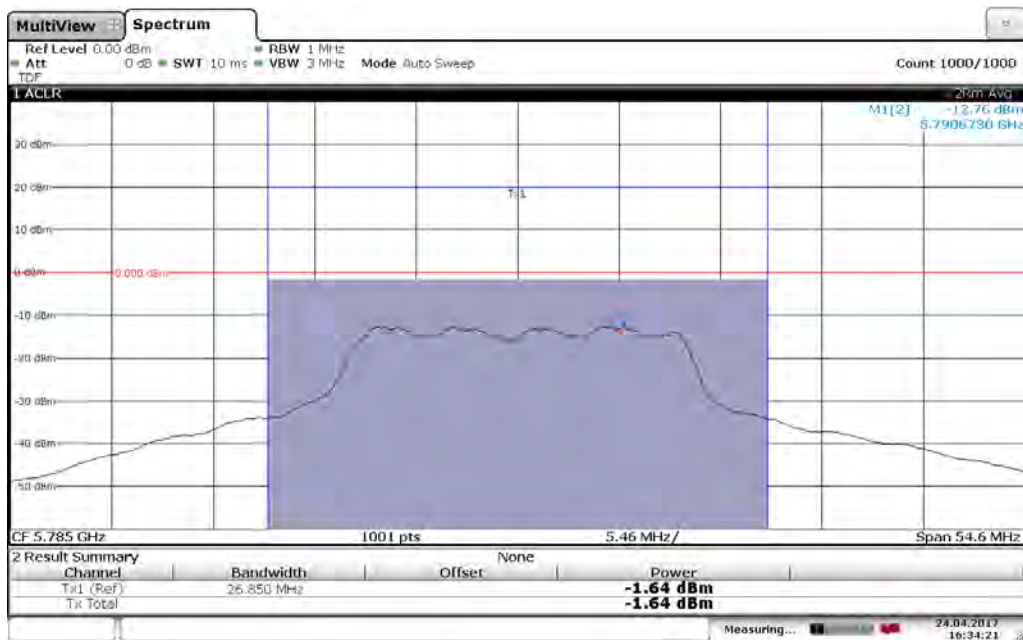


Date: 24 APR 2017 19:12:49

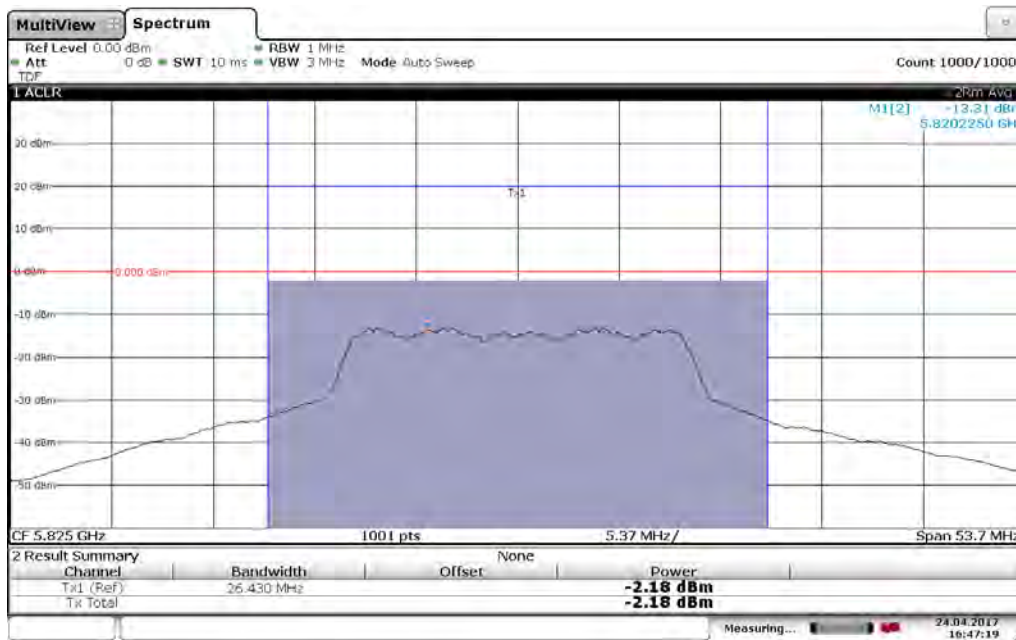
Low Channel – 5745 MHz, 802 11n MCS7 65 Mbps, Output Power: -0.38 dBm



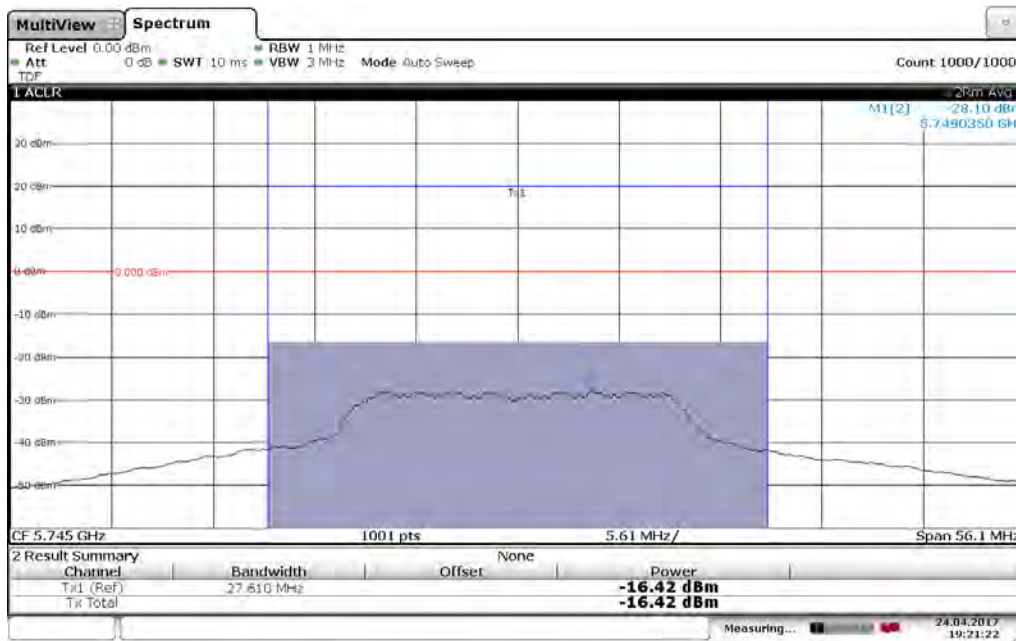
Mid Channel – 5785 MHz, 802 11n MCS7 65 Mbps, Output Power: -1.64 dBm



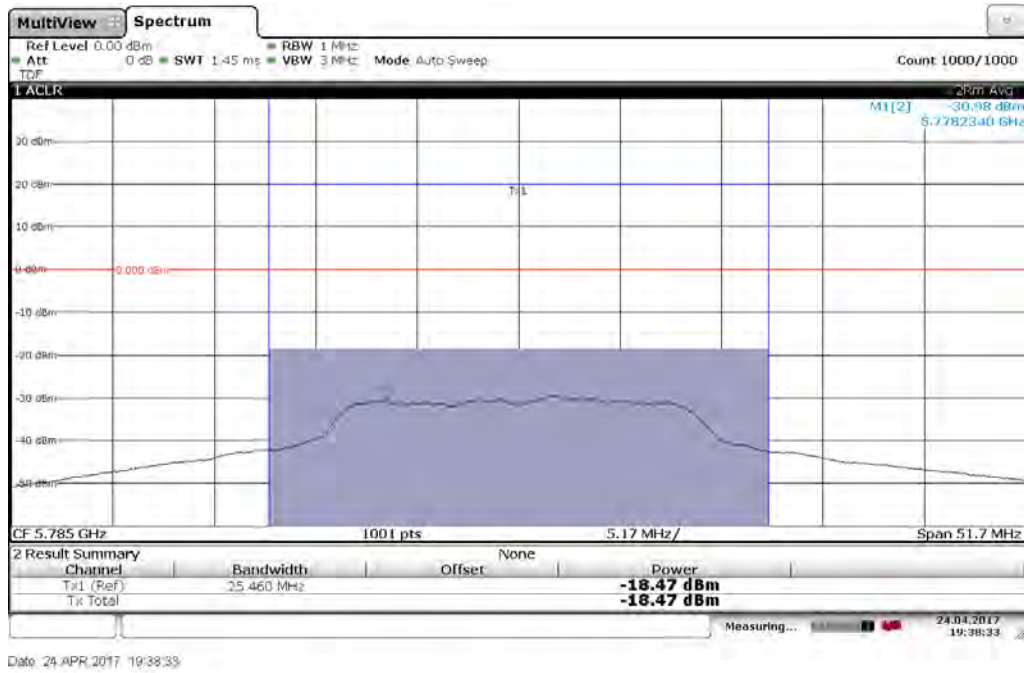
High Channel – 5825 MHz, 802 11n MCS7 65 Mbps, Output Power: -2.18 dBm



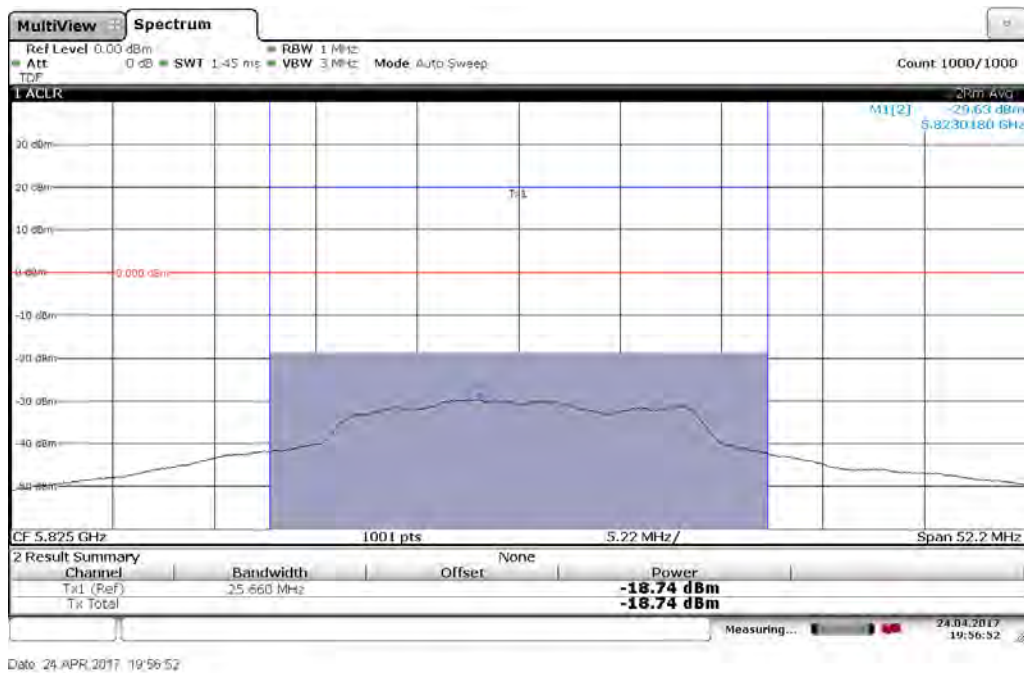
Low Channel – 5745 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Output Power: -16.42 dBm



Mid Channel – 5785 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Output Power: -18.47dBm

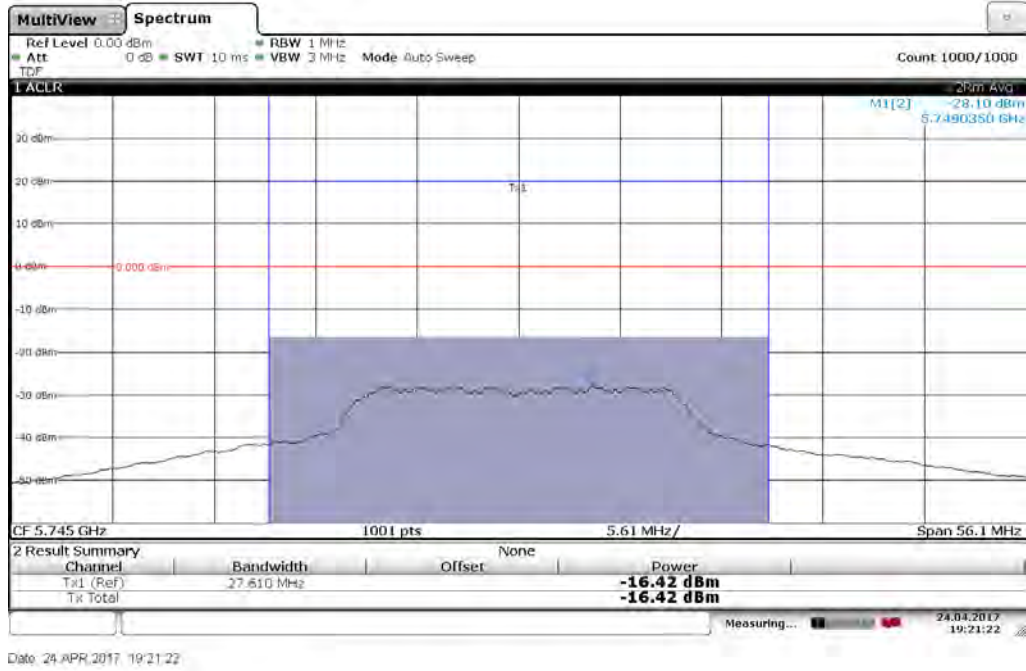


High Channel – 5825 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Output Power: -18.74 dBm

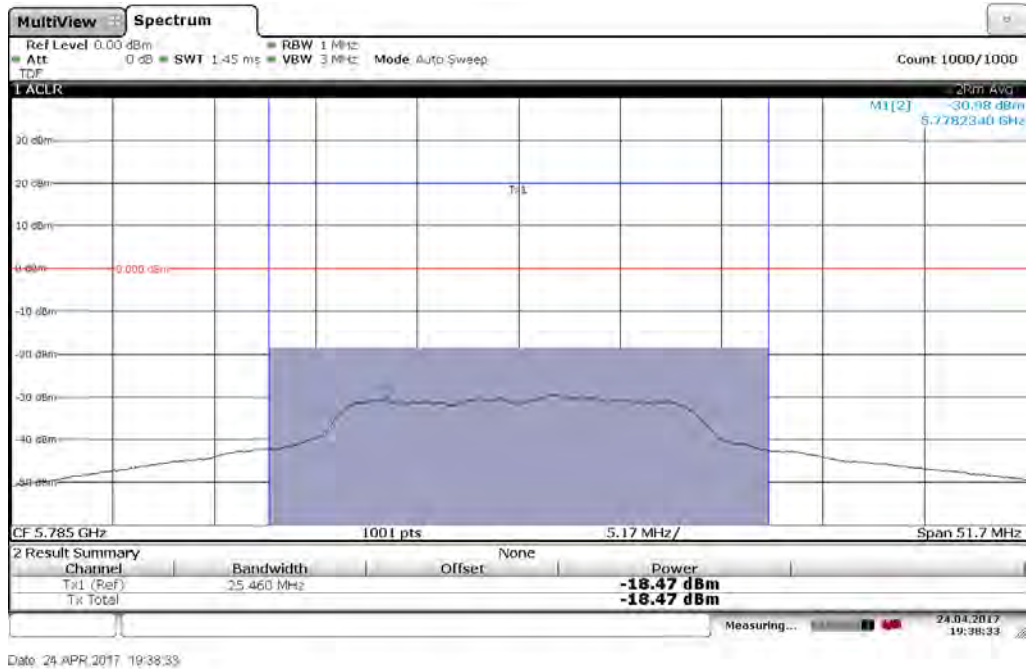


Band 4 (40 MHz Bandwidth)

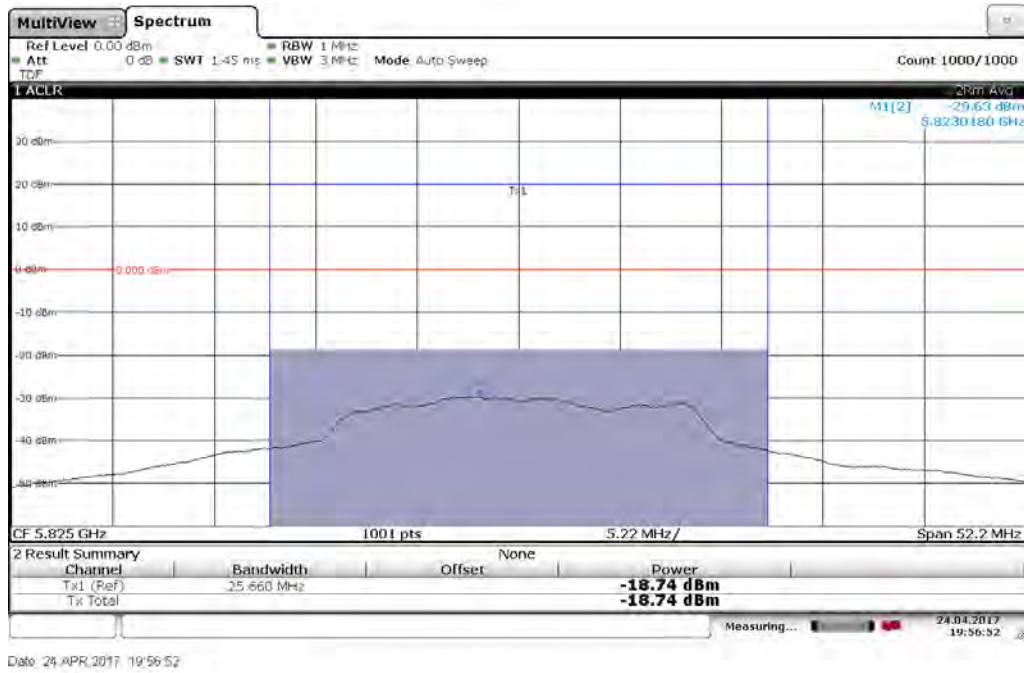
Low Channel – 5745 MHz, 802 11n MCS0 MM SG 72.2 Mbps, Output Power: -16.42 dBm



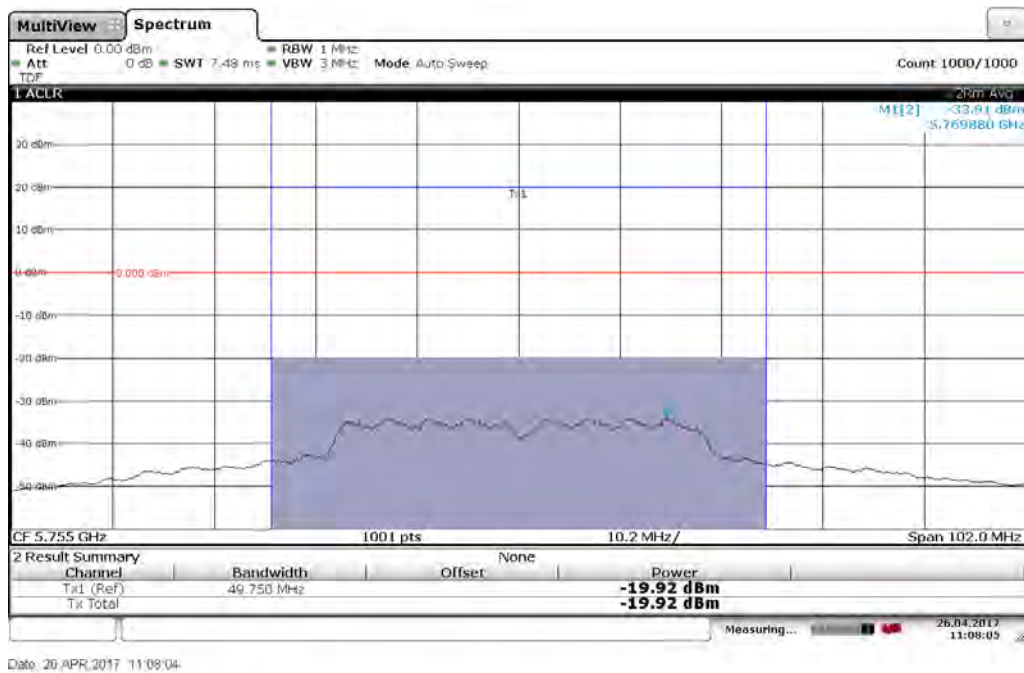
Mid Channel – 5785 MHz, 802 11n MCS0 MM SG 72.2 Mbps, Output Power: -18.47 dBm



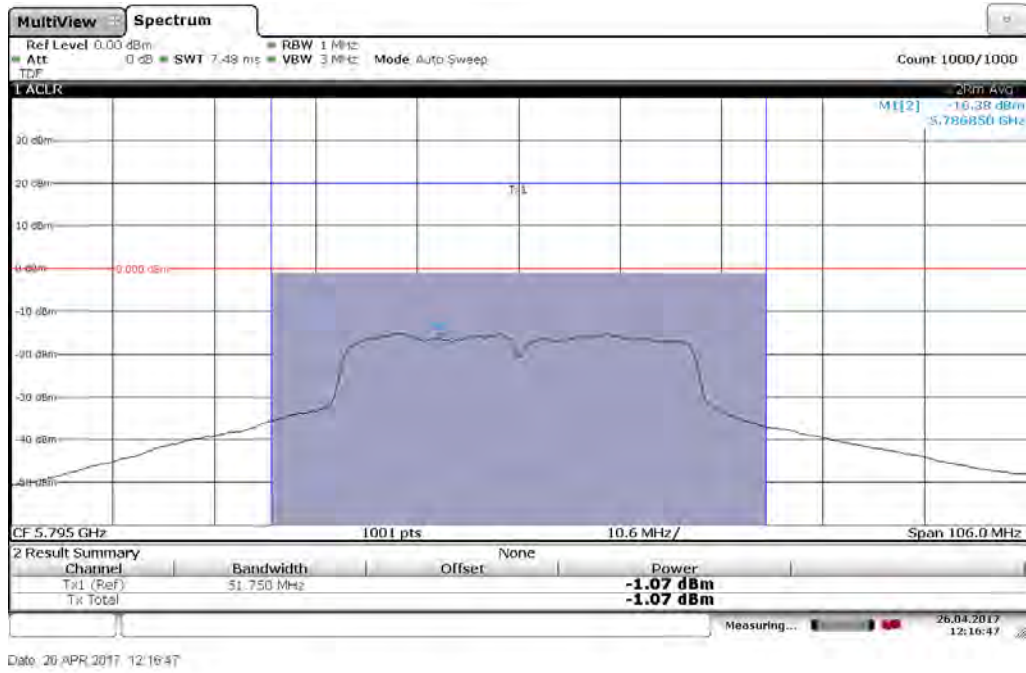
High Channel – 5825 MHz, 802 11n MCS0 MM SG 72.2 Mbps, Output Power: -18.74 dBm



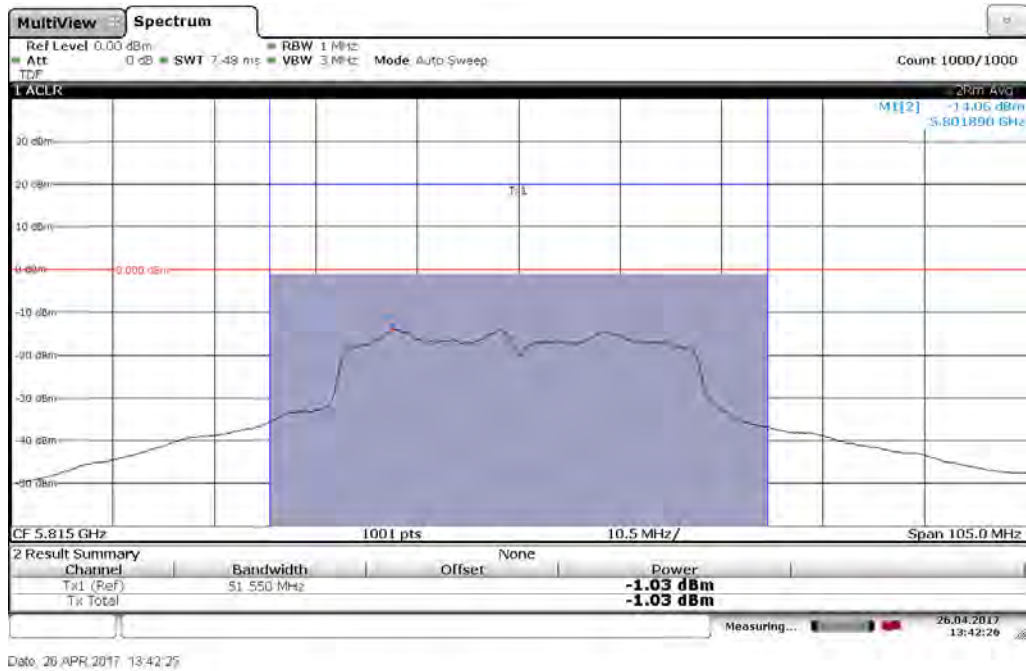
Low Channel – 5755 MHz, 802 11n MCS0 MM SG 15 Mbps, Output Power: -19.92 dBm



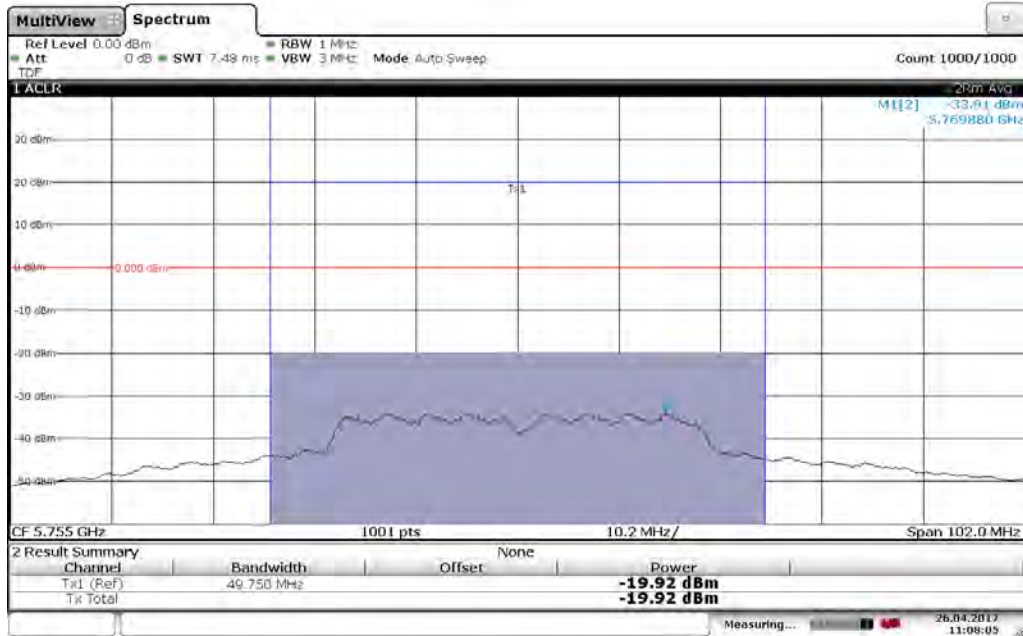
Mid Channel – 5795MHz, 802 11n MSC0 MM SG 15 Mbps, Output Power: -1.07 dBm



High Channel – 5815MHz, 802 11n MSC0 MM SG 15 Mbps, Output Power: -1.03 dBm

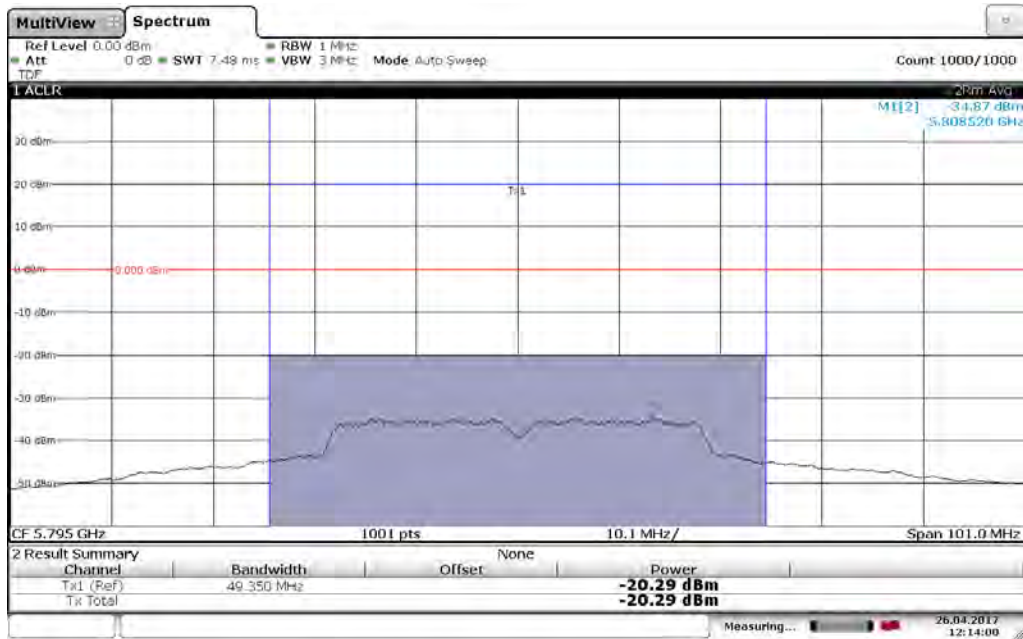


Low Channel – 5755 MHz, 802 11n MSC7 135 Mbps, Output Power: -19.92 dBm



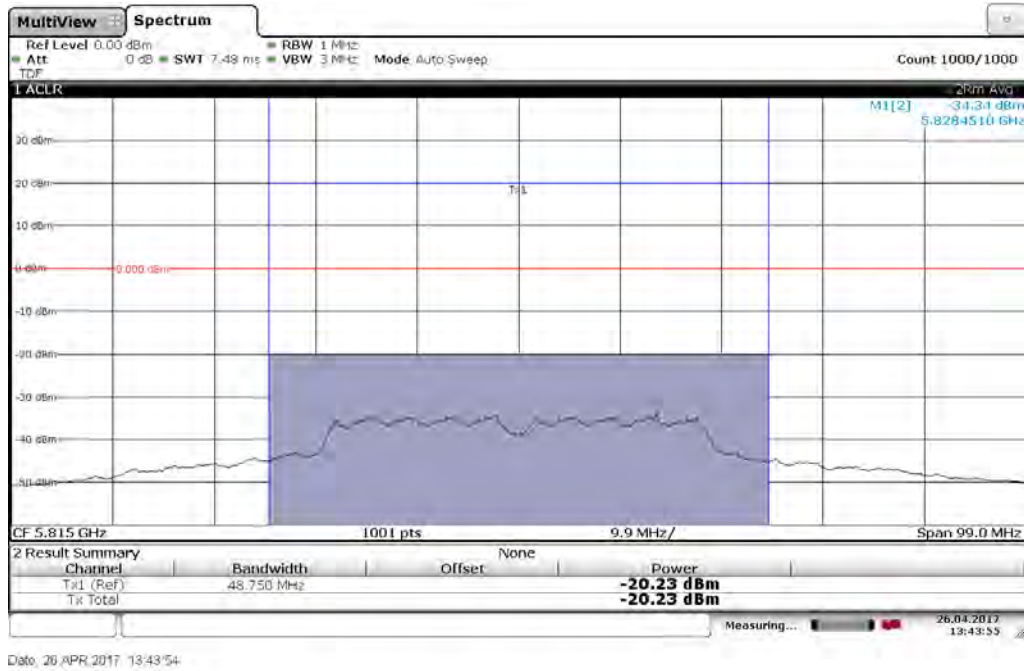
Date: 26 APR, 2017 11:08:04

Mid Channel – 5795 MHz, 802 11n MSC7 135 Mbps, Output Power: -20.29 dBm

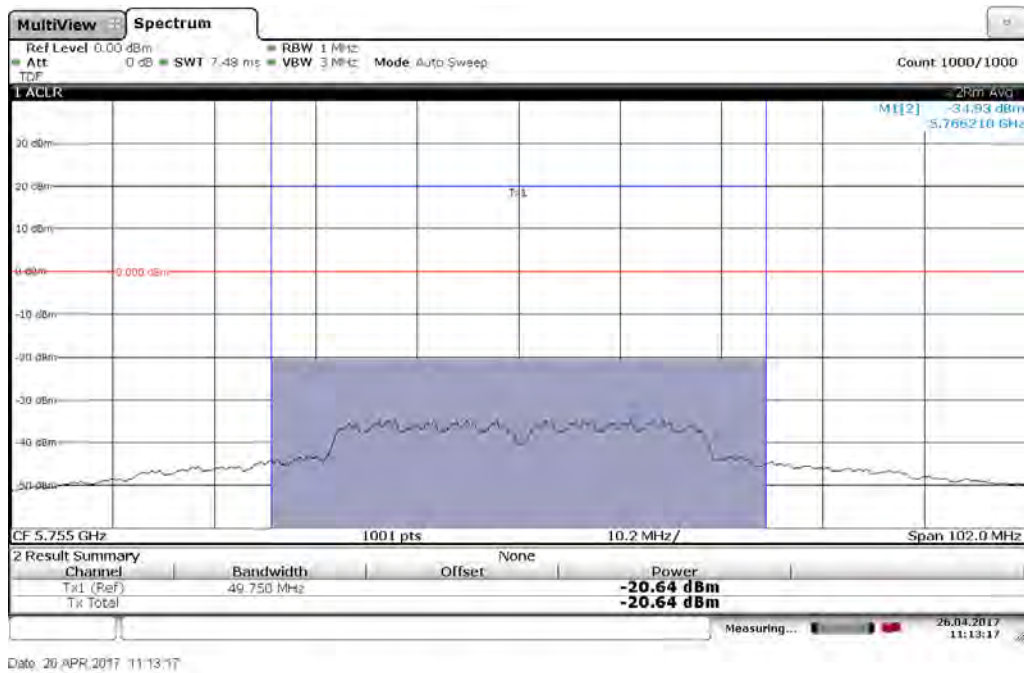


Date: 26 APR, 2017 12:13:59

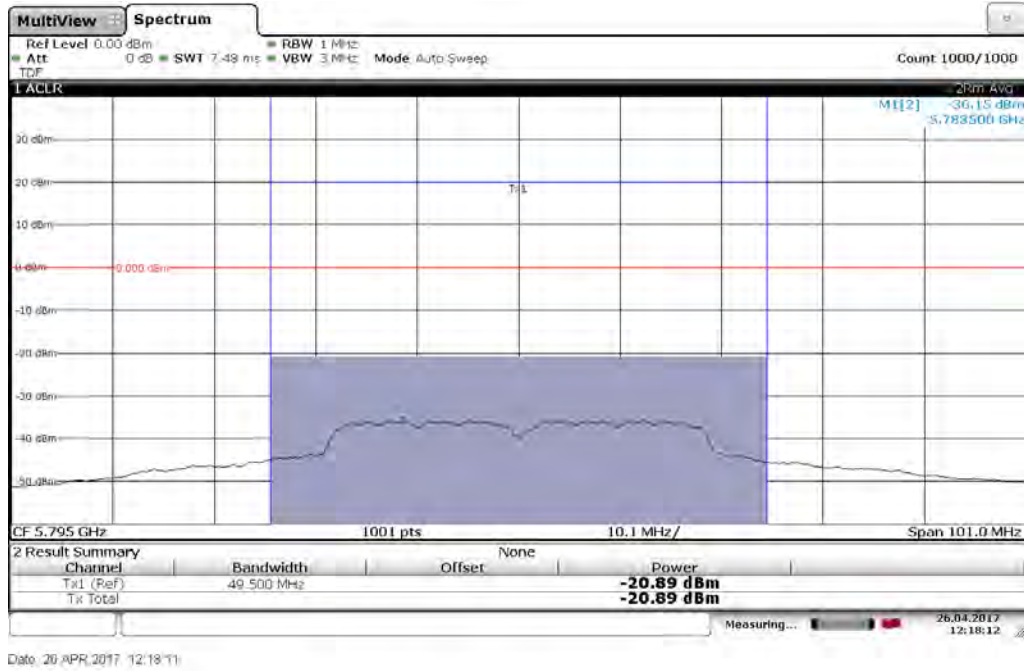
High Channel – 5815 MHz, 802 11n MSC7 135Mbps, Output Power: -20.23 dBm



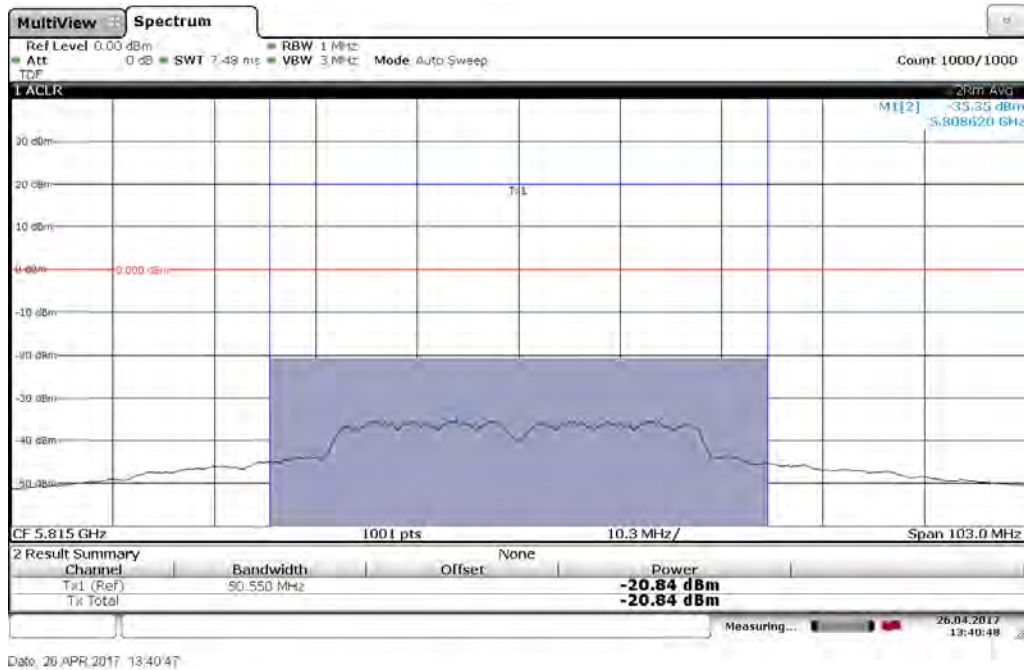
Low Channel – 5755 MHz, 802 11n MSC7 MM SG 150 Mbps, Output Power: -20.64 dBm



Mid Channel – 5795 MHz, 802 11n MSC7 MM SG 150 Mbps, Output Power: -20.89 dBm



High Channel – 5815 MHz, 802 11n MSC7 MM SG 150 Mbps, Output Power: -20.84 dBm



6.5 Human RF Exposure:**5150 – 5250 MHz**

Maximum Output Power = 11.04 dBm
Maximum antenna gain = 4 dBi
EIRP = 11.04 dBm + 4dBi = 15.04 dBm
Output Power in mW = 0.031 W
 $S = \text{EIRP} / 4\pi D^2 = 0.031 / 4\pi(0.2)^2$
 $S = 0.061 \text{ W/m}^2$

5250 – 5350 MHz

Maximum Output Power = 13.79 dBm
Maximum antenna gain = 4 dBi
EIRP = 13.79 dBm + 4dBi = 17.79 dBm
Output Power in mW = 0.060 W
 $S = \text{EIRP} / 4\pi D^2 = (0.060) / (4\pi(0.2)^2)$
 $S = 0.1193 \text{ W/m}^2$

5470 – 5725 MHz

Maximum Output Power = 9.52 dBm
Maximum antenna gain = 4 dBi
EIRP = 9.52 dBm + 4dBi = 13.52 dBm
Output Power in mW = 0.0224 W
 $S = \text{EIRP} / 4\pi D^2 = (0.0224) / (4\pi(0.2)^2)$
 $S = 0.044 \text{ W/m}^2$

5725 – 5850 MHz

Maximum Output Power = 10.71 dBm
Maximum antenna gain = 4 dBi
EIRP = 10.71 dBm + 4dBi = 14.71 dBm
Output Power in mW = 0.0295 W
 $S = \text{EIRP} / 4\pi D^2 = (0.0295) / (4\pi(0.2)^2)$
 $S = 0.0586 \text{ W/m}^2$

FCC Limit for MPE @ 5 GHz is 10 W/m^2

RSS 102 Limit for MPE @ 5 GHz is 8.83 W/m^2

Power density calculated in the all 4 bands above is below the limits.

Test Personnel:	Naga Suryadevara NS	Test Date:	04/23/2017
Supervising/Reviewing Engineer:	Kouma Sinn KPS		04/24/2017
(Where Applicable)	Vathana Ven VV		04/25/2017
Product Standard:	FCC Part 15 Subpart C	Limit Applied:	As specified in Section 6.3
Input Voltage:	FCC Part 15 Subpart E		
	RSS 247		
Pretest Verification w/ Ambient Signals or BB Source:	RSS 102	Ambient Temperature:	22, 21, 23, 22 °C
	120VAC 60Hz	Relative Humidity:	34, 29, 34, 28 %
		Atmospheric Pressure:	1002, 1004, 1008, 1005 mbars

Deviations, Additions, or Exclusions: None

7 Power Spectral Density

7.1 Method

Tests are performed in accordance with FCC Part 15 Subpart E, FCC Part 15 Subpart C (15.247) and RSS 247.

TEST SITE: EMC Lab

The EMC Lab has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

7.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
ROS005'	ETSI Test System	Rhode & Schwartz	TS8997	N/A	09/15/2016	09/15/2017
WEI8'	Attenuator	Weinschel Corp	47-10-34	BD8309	04/08/2017	04/08/2018
CBLHF2012-2M-1'	2m 9kHz-40GHz Coaxial Cable - SET1	Huber & Suhner	SF102	252675001	02/08/2017	02/08/2018

Software Utilized:

Name	Manufacturer	Version
None		

7.3 Results:

The sample tested was found to Comply.

For client devices in the 5.15-5.25 GHz band the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

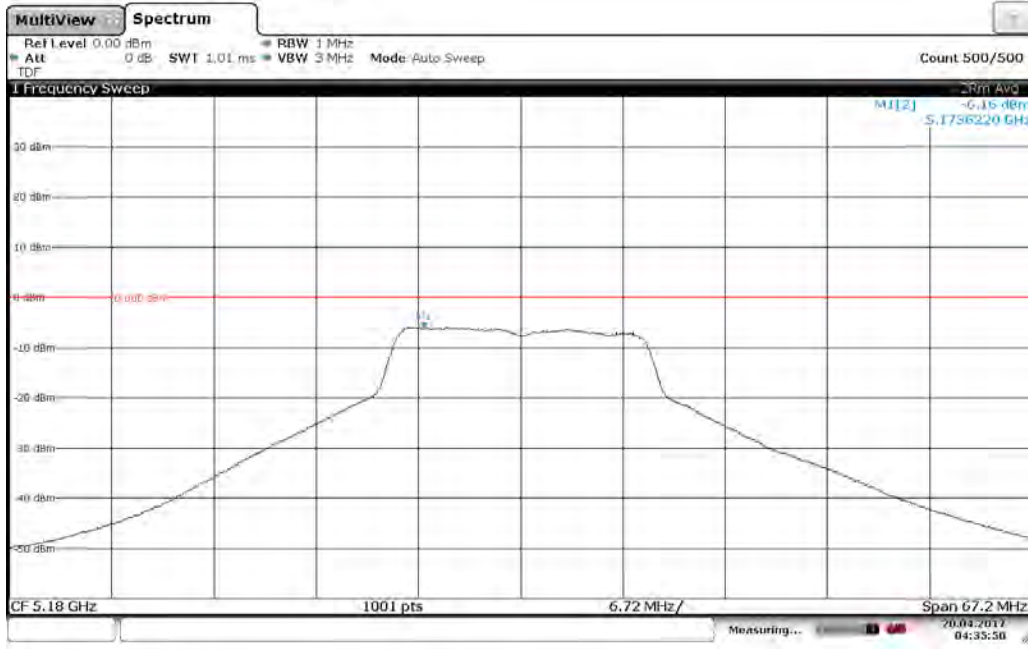
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

7.4 Plots/Data:

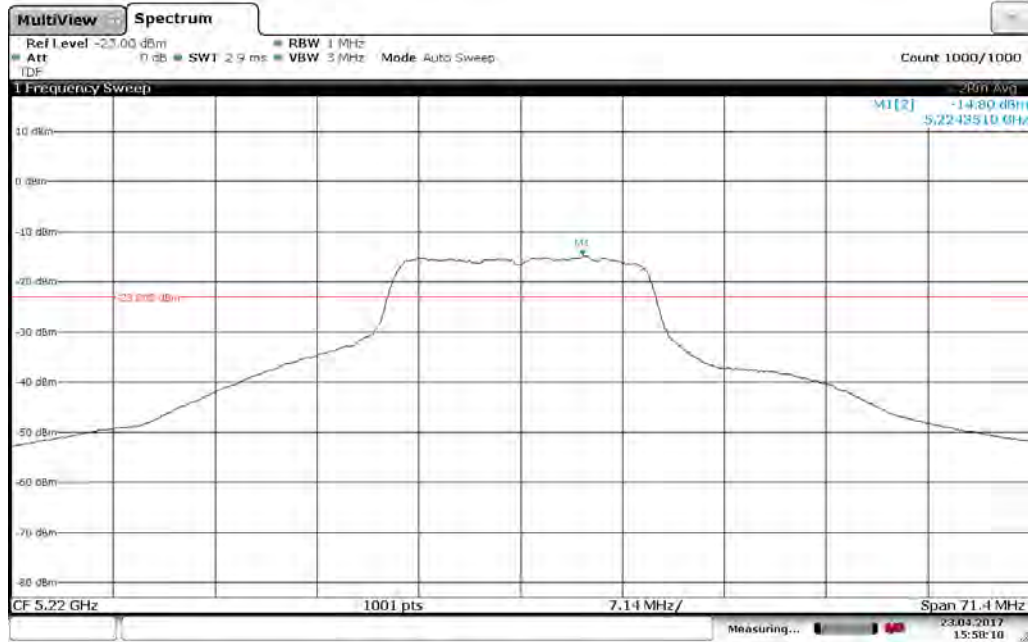
Band 1 (20 MHz Bandwidth)

Low Channel – 5180 MHz, 802 11g 6 Mbps, Spectral Density: -6.16 dBm



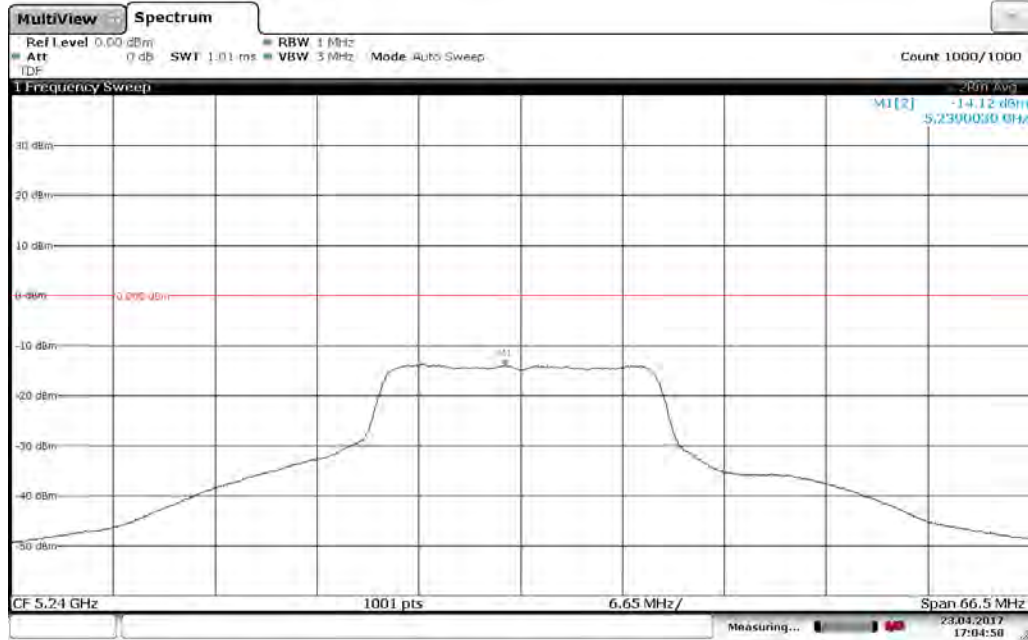
Date: 20 APR 2017 04:35:50

Mid Channel – 5220 MHz, 802 11g 6 Mbps, Spectral Density: -14.80 dBm

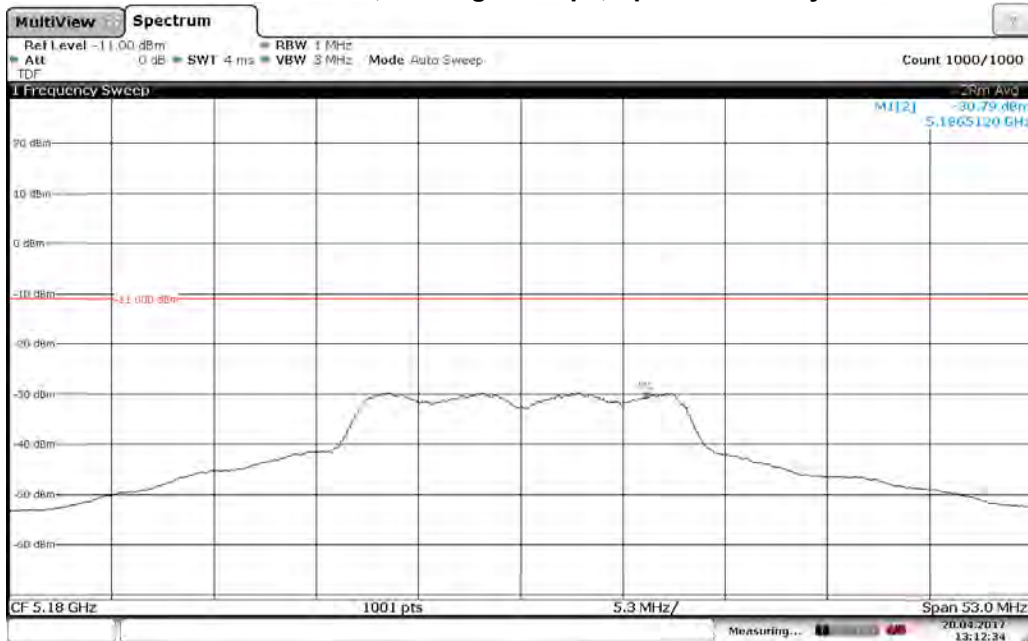


Date: 23 APR 2017 15:58:10

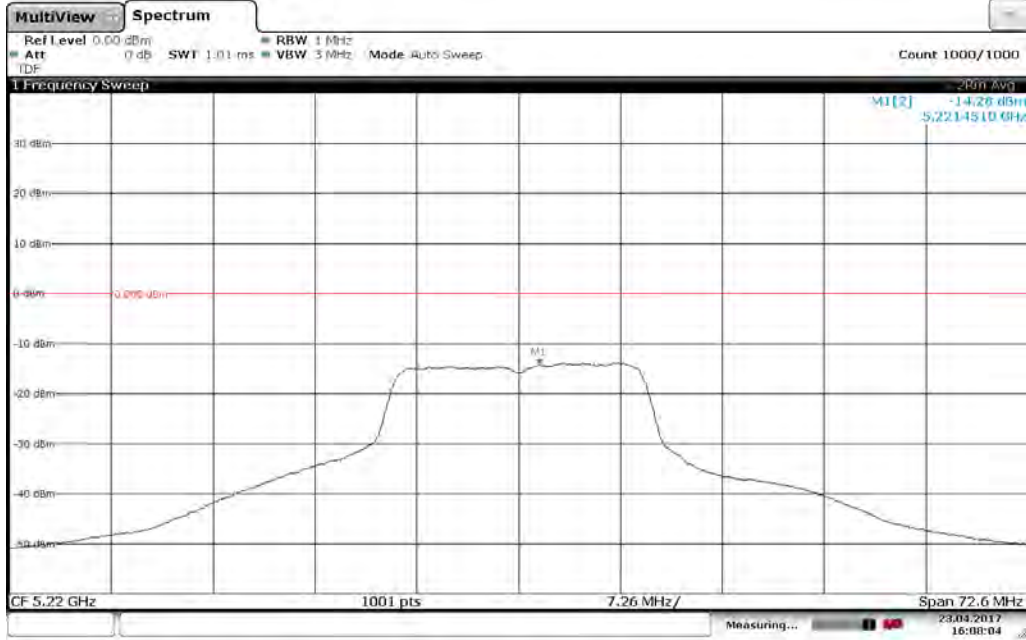
High Channel – 5220 MHz, 802 11g 6 Mbps, Spectral Density: -14.12 dBm



Low Channel – 5180 MHz, 802 11g 54 Mbps, Spectral Density: -30.79 dBm

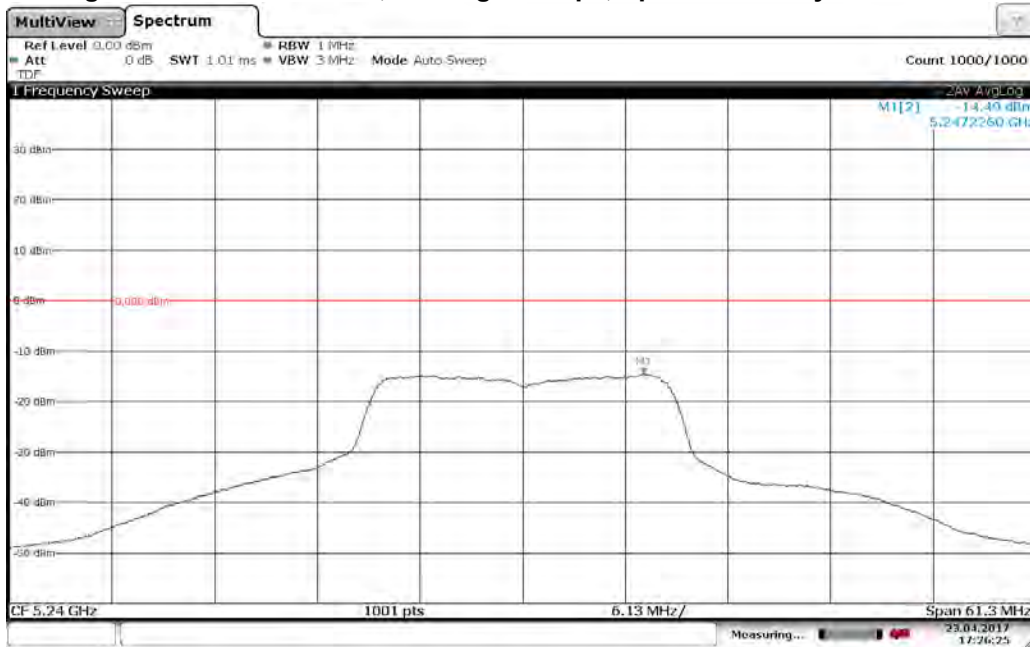


Mid Channel – 5220 MHz, 802 11g 54 Mbps, Spectral Density: -14.80 dBm



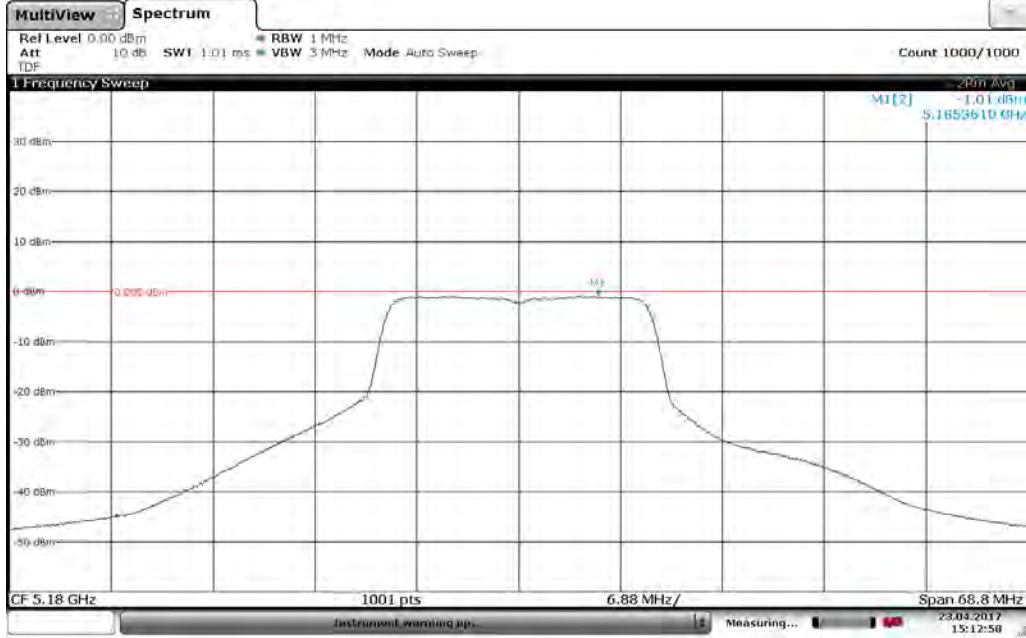
Date: 23 APR 2017 16:08:04

High Channel – 5220 MHz, 802 11g 54 Mbps, Spectral Density: -14.49 dBm



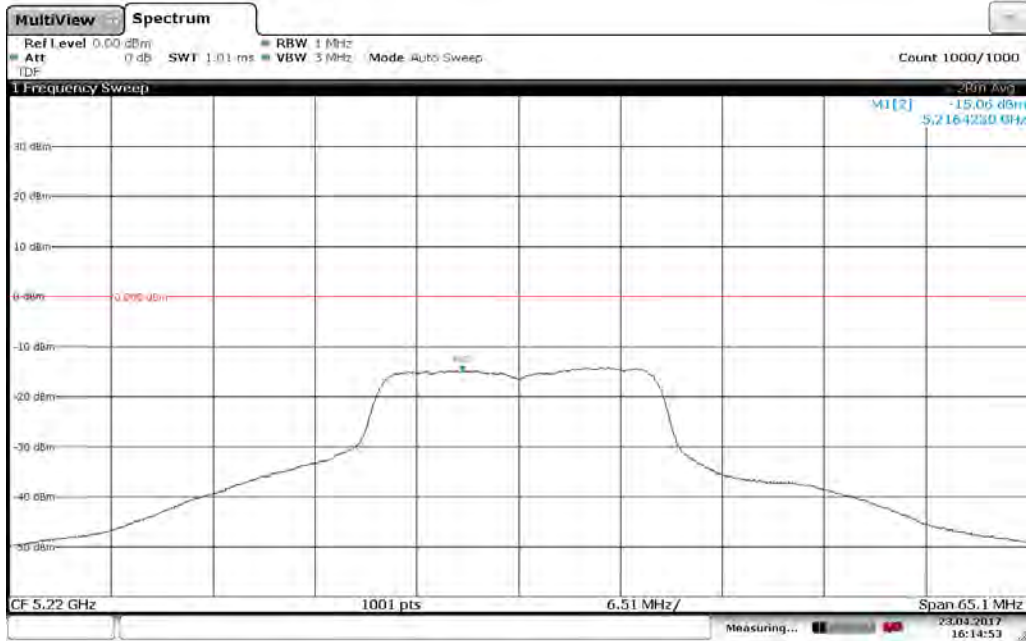
Date: 23 APR 2017 17:26:25

Low Channel – 5180 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -1.01 dBm



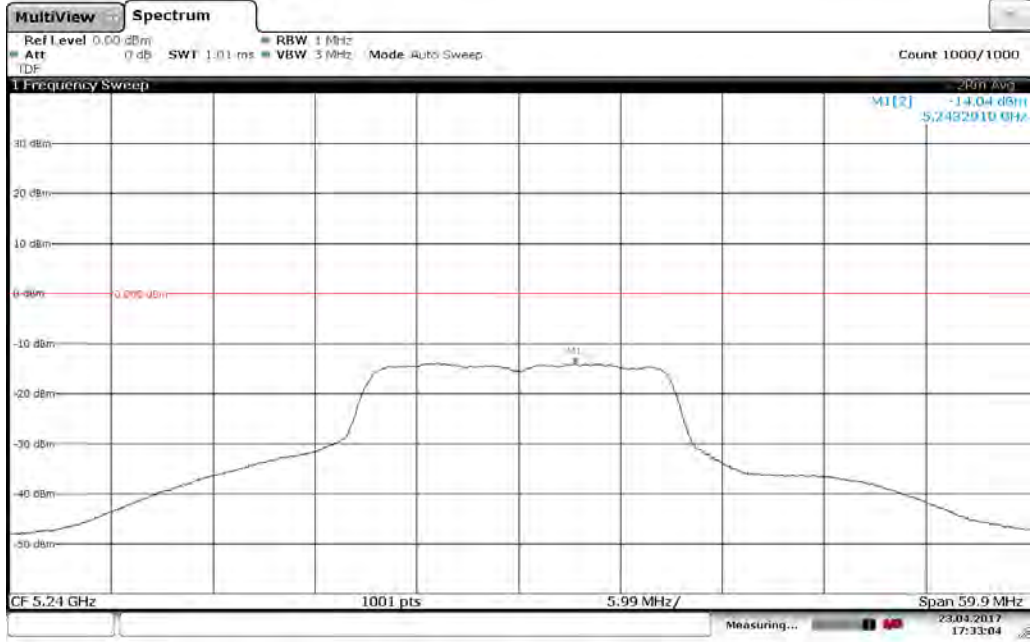
Date: 23-APR-2017 15:12:57

Mid Channel – 5220 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -15.06 dBm



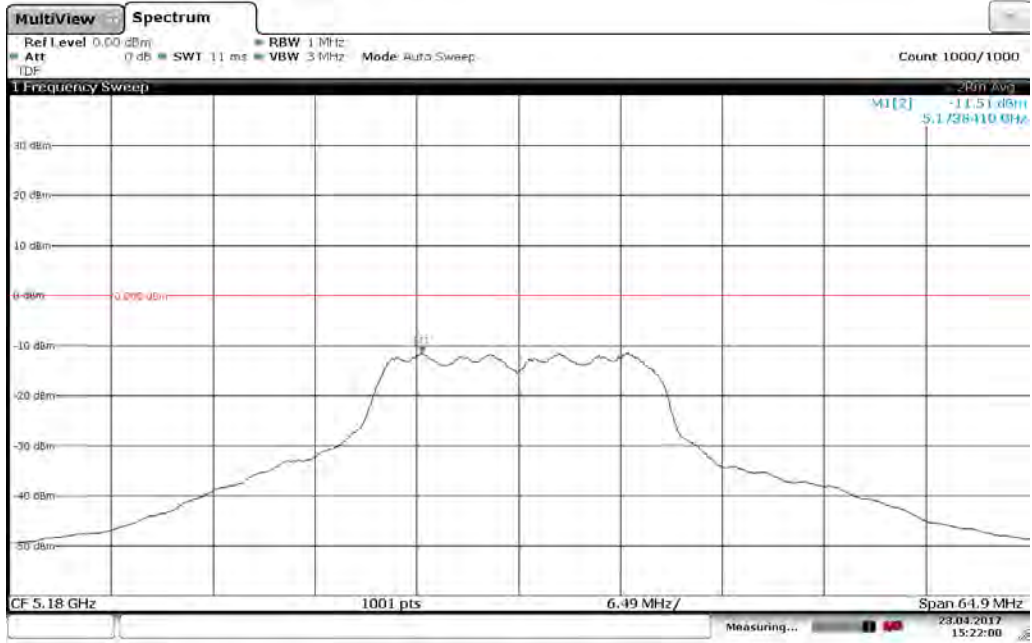
Date: 23-APR-2017 16:14:52

High Channel – 5240 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -14.04 dBm



Date: 23 APR 2017 17:33:04

Low Channel – 5180 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -11.51 dBm



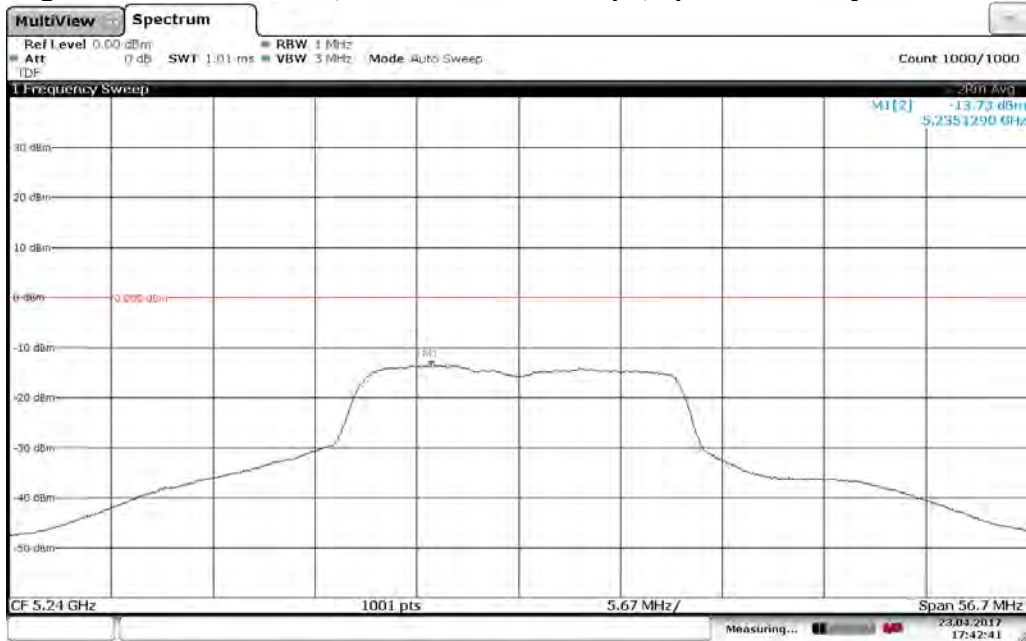
Date: 23 APR 2017 15:22:00

Mid Channel – 5220 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -15.15 dBm



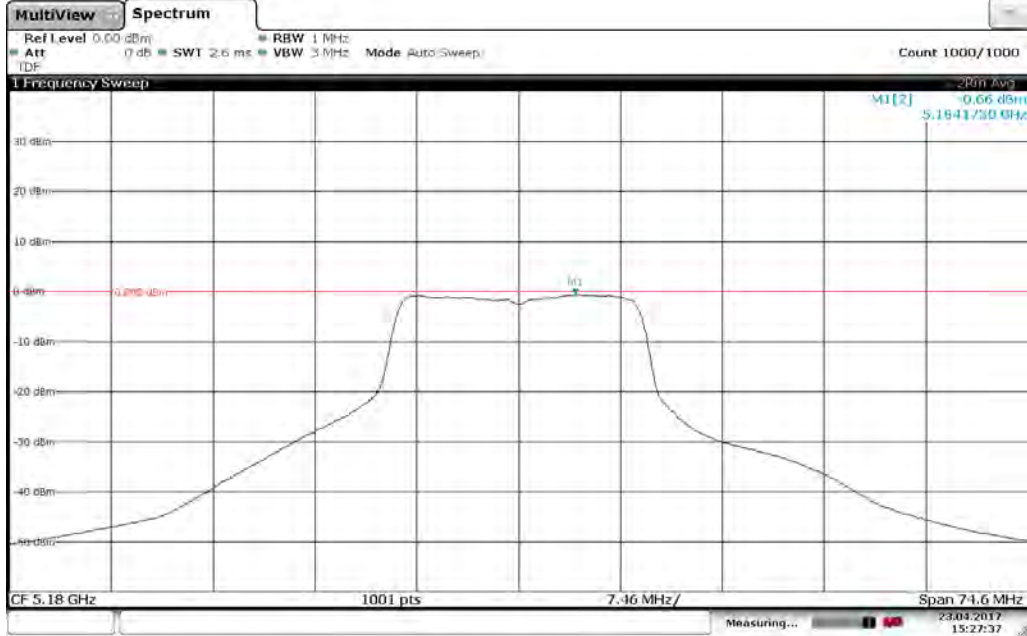
Date: 23 APR 2017 16:20:54

High Channel – 5240 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -13.73 dBm



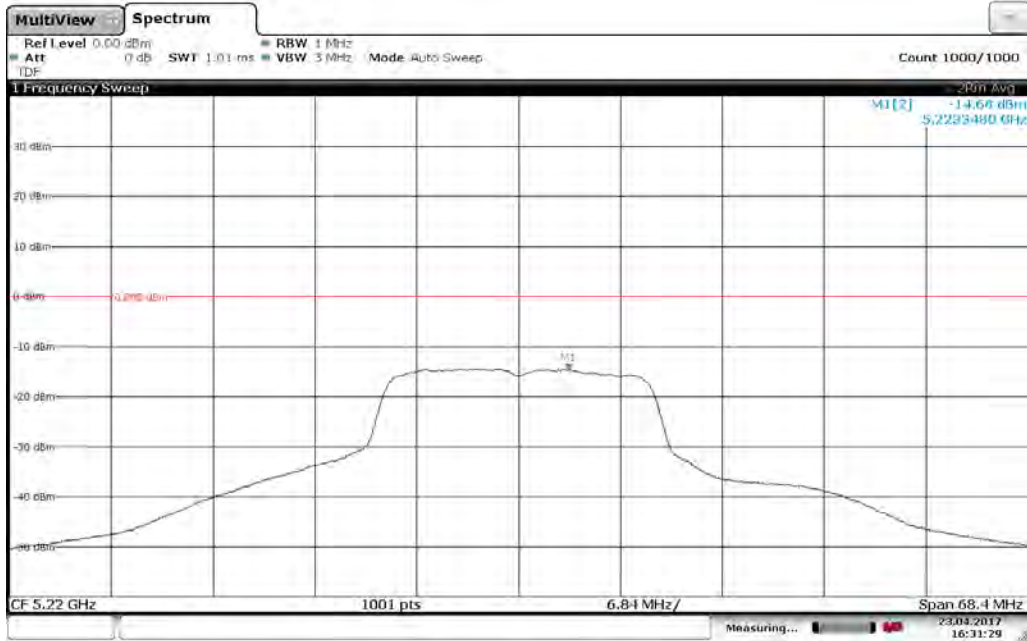
Date: 23 APR 2017 17:42:41

Low Channel – 5180 MHz, 802 11n MCS0MM 7.2 Mbps, Spectral Density: -0.66 dBm



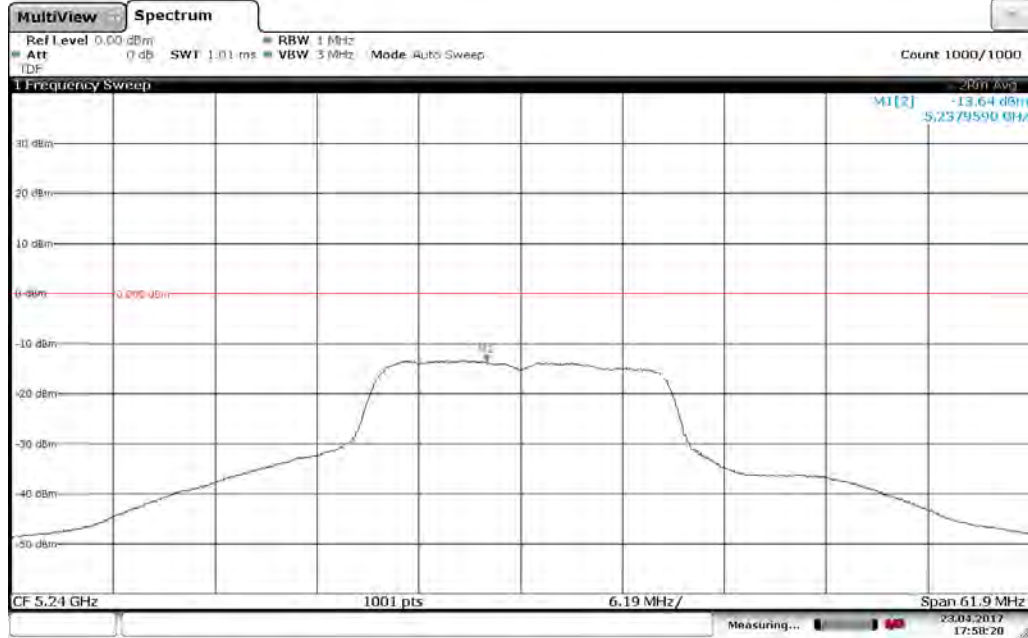
Date: 23 APR 2017 15:27:30

Mid Channel – 5220 MHz, 802 11n MCS0MM 7.2 Mbps, Spectral Density: -14.68 dBm



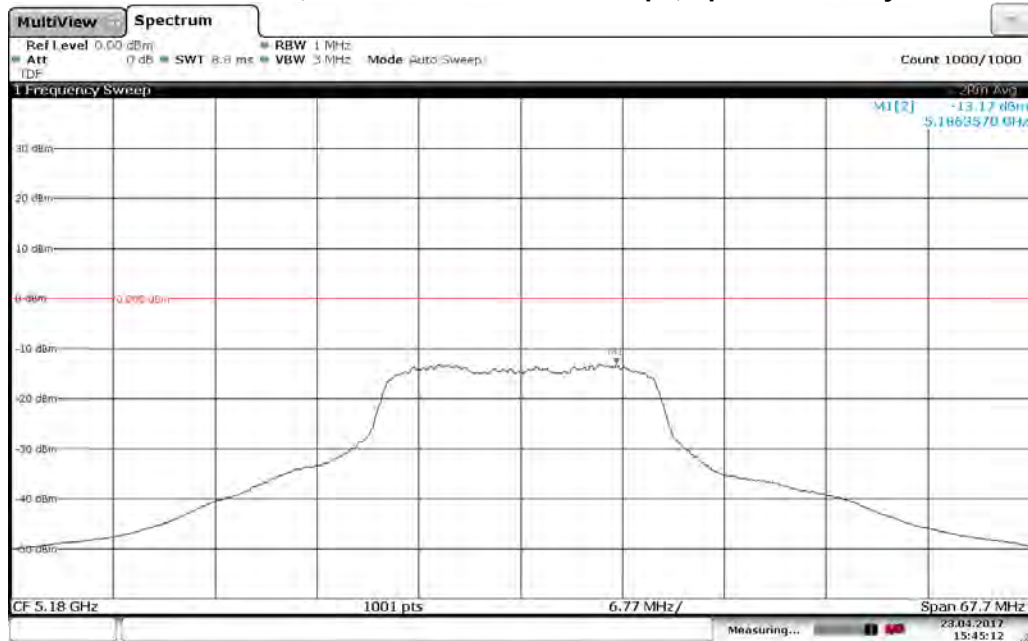
Date: 23 APR 2017 16:31:29

High Channel – 5240 MHz, 802 11n MCS0MM 7.2 Mbps, Spectral Density: -13.64 dBm



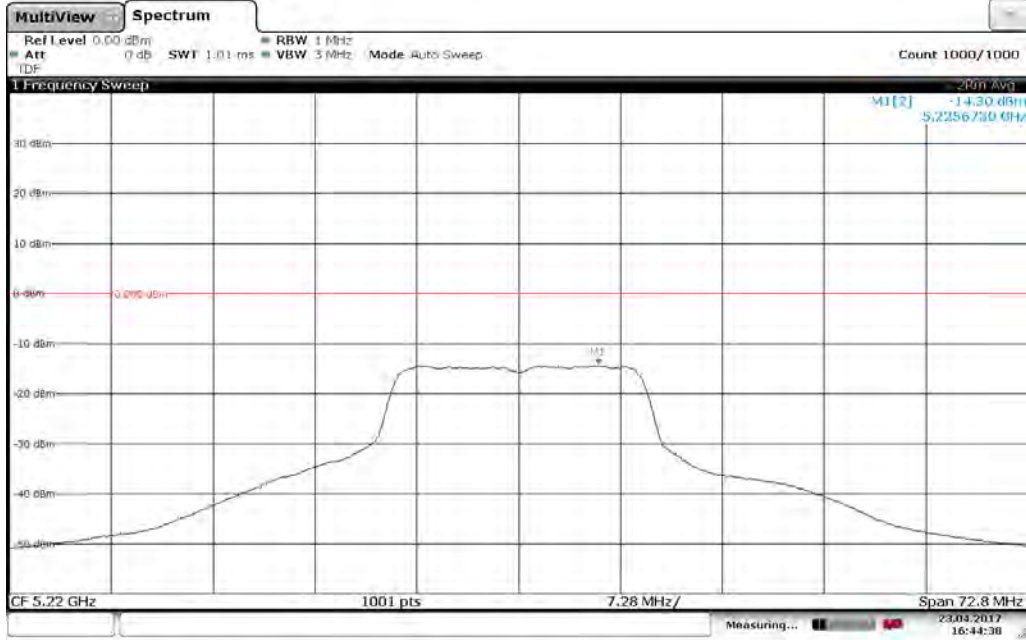
Date: 23 APR 2017 17:58:19

Low Channel – 5180 MHz, 802 11n MCS7MM 72.2 Mbps, Spectral Density: -13.17 dBm



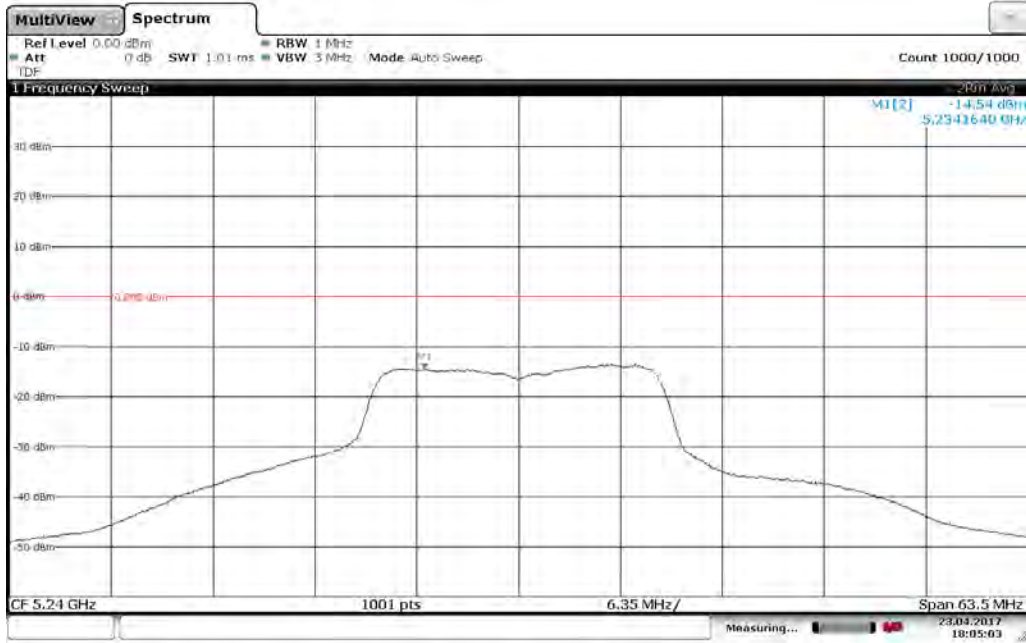
Date: 23 APR 2017 15:45:13

Mid Channel – 5220 MHz, 802 11n MCS7MM 72.2 Mbps, Spectral Density: -14.30 dBm



Date: 23 APR 2017 16:44:37

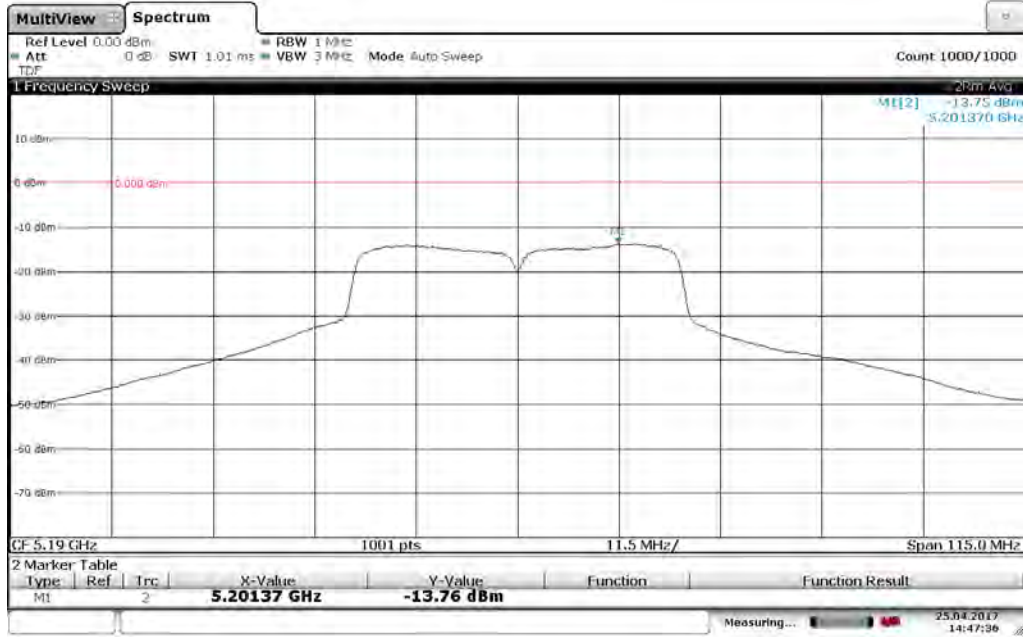
High Channel – 5220 MHz, 802 11n MCS7MM 72.2 Mbps, Spectral Density: -14.30 dBm



Date: 23 APR 2017 18:05:03

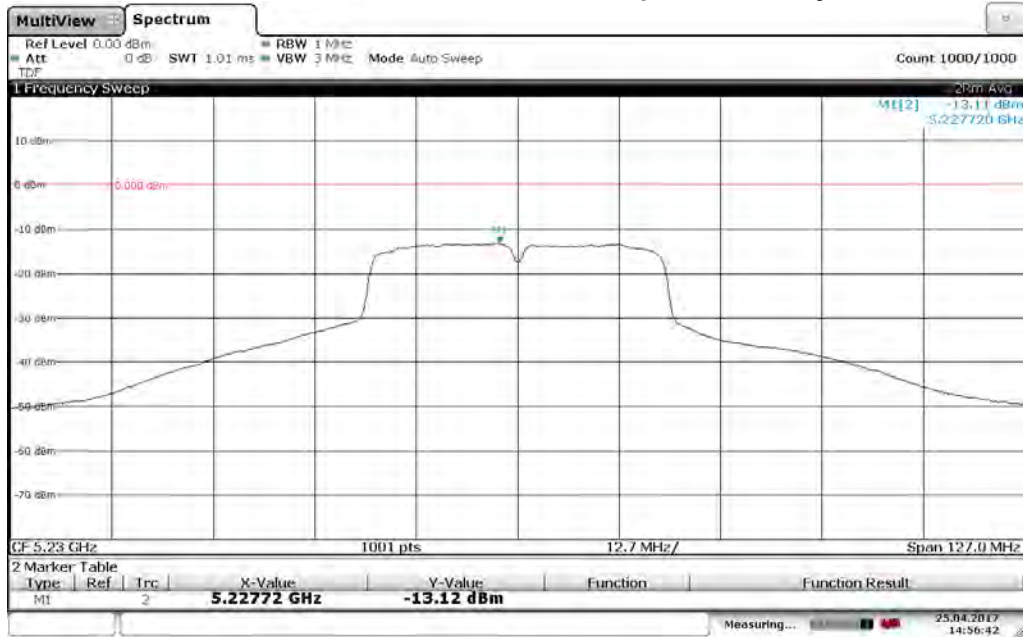
Band 1 (40 MHz Bandwidth)

Low Channel – 5190 MHz, 802 11n MCS0 13.5, Spectral Density: -13.76 dBm



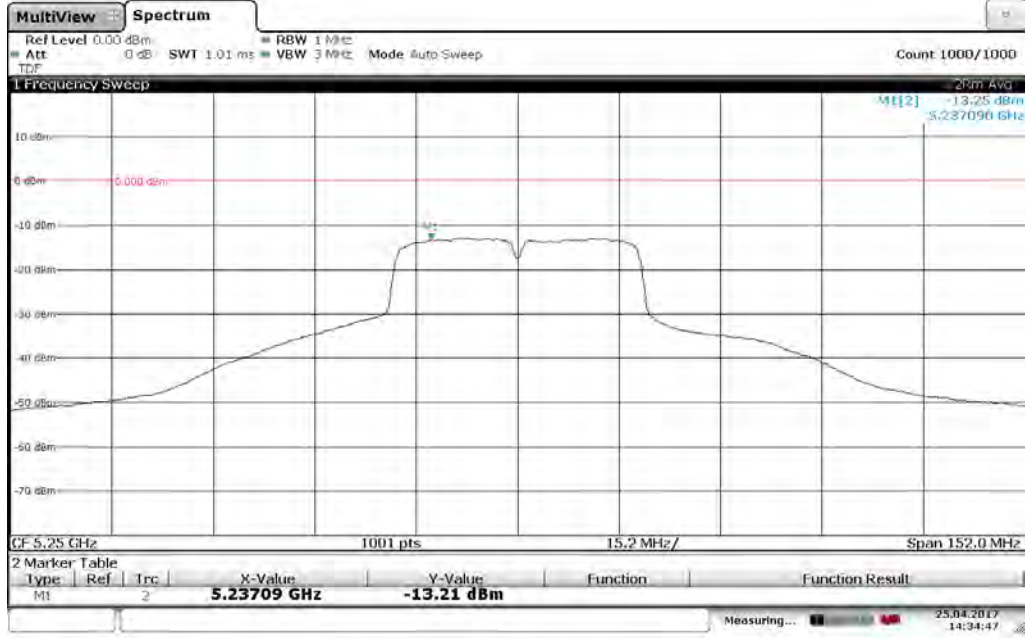
Date: 25 APR 2017 14:47:36

Mid Channel – 5230 MHz, 802 11n MCS0 13.5, Spectral Density: -13.12 dBm



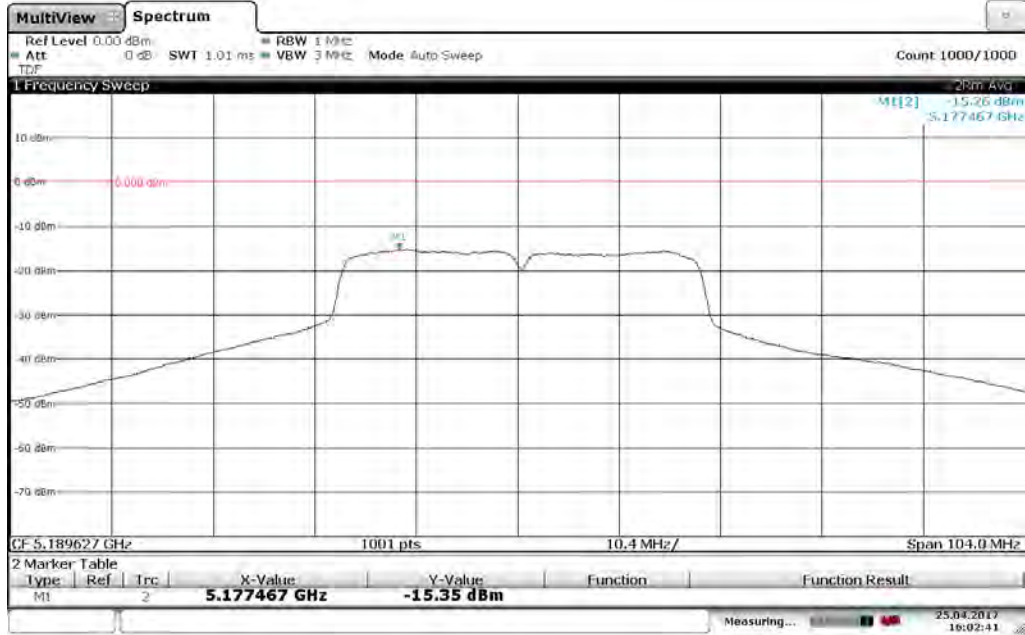
Date: 25 APR 2017 14:56:42

High Channel – 5250 MHz, 802 11n MCS0 13.5, Spectral Density: -13.21 dBm



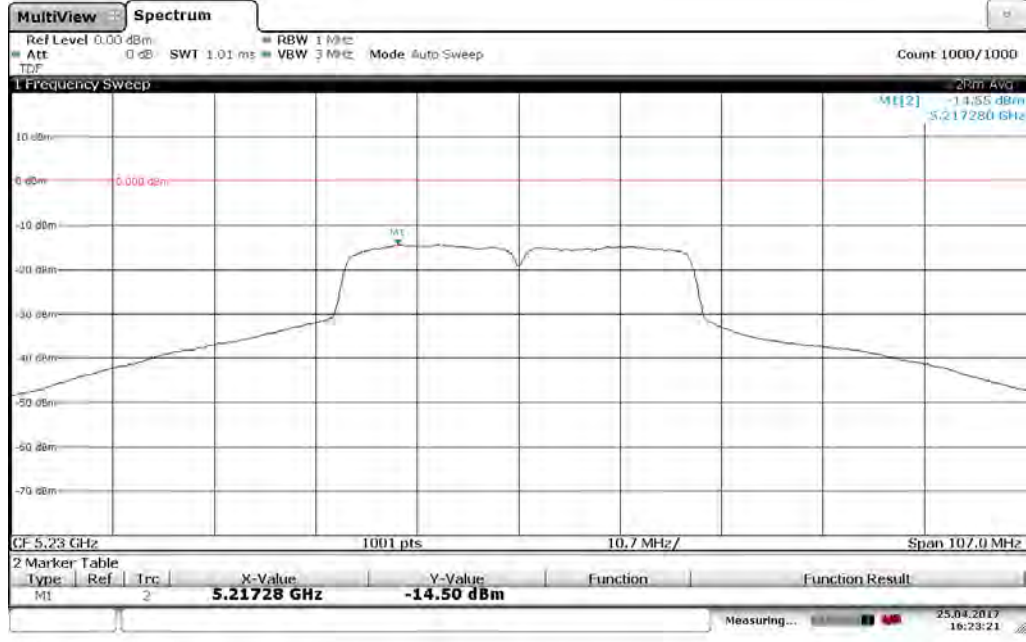
Date: 25 APR 2017 14:34:47

Low Channel – 5190 MHz, 802 11n MCS0 MM SG 15, Spectral Density: -15.35 dBm



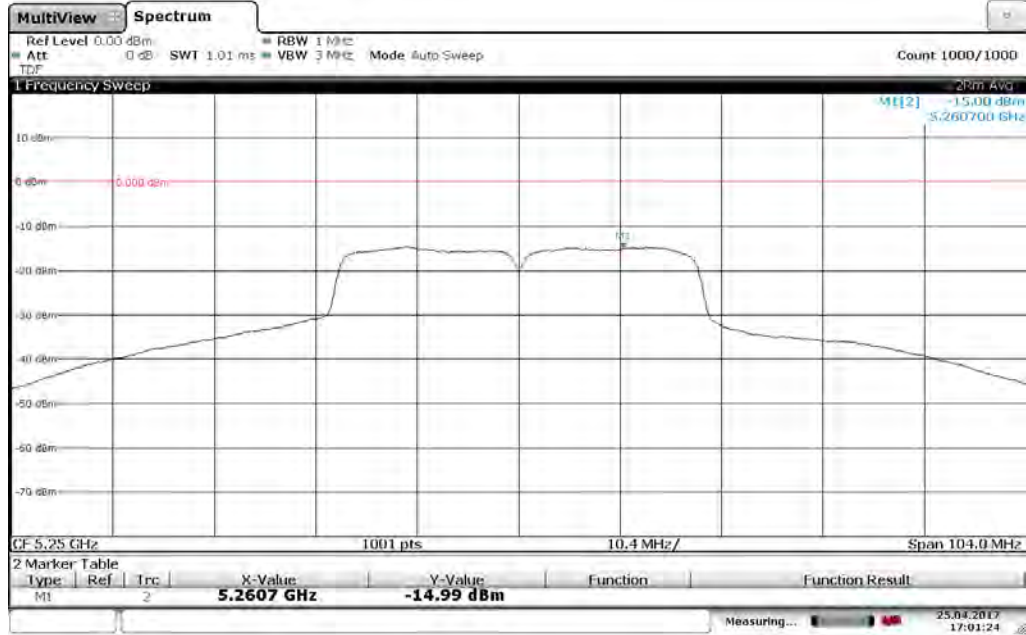
Date: 25 APR 2017 16:02:41

Mid Channel – 5230 MHz, 802 11n MCS0 MM SG 15, Spectral Density: -14.50 dBm



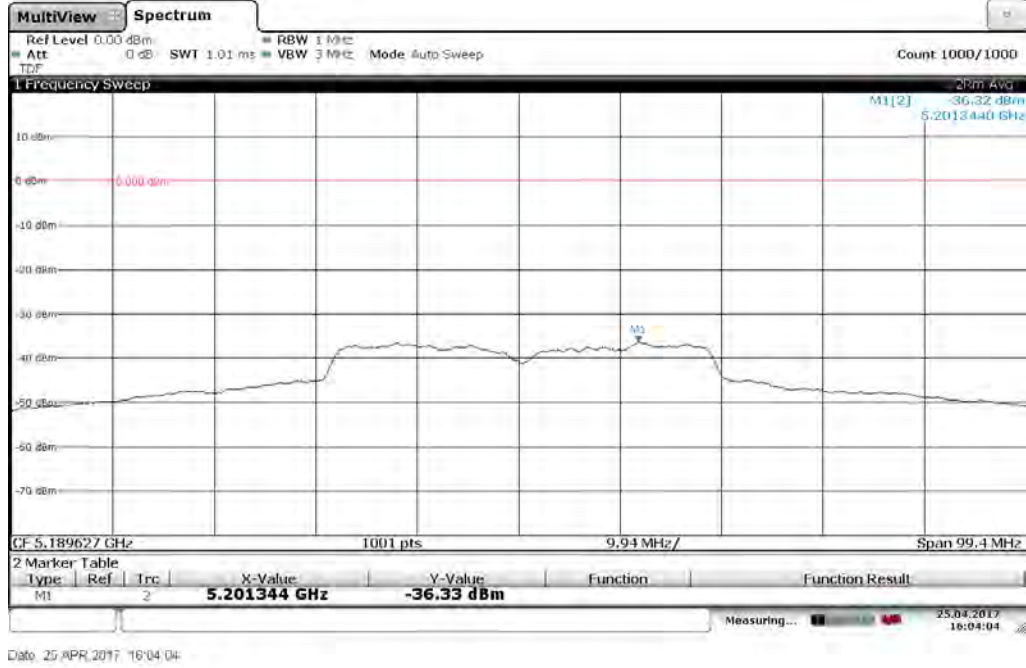
Date: 25 APR 2017 16:23:21

High Channel – 5250 MHz, 802 11n MCS0 MM SG 15, Spectral Density: -14.99 dBm

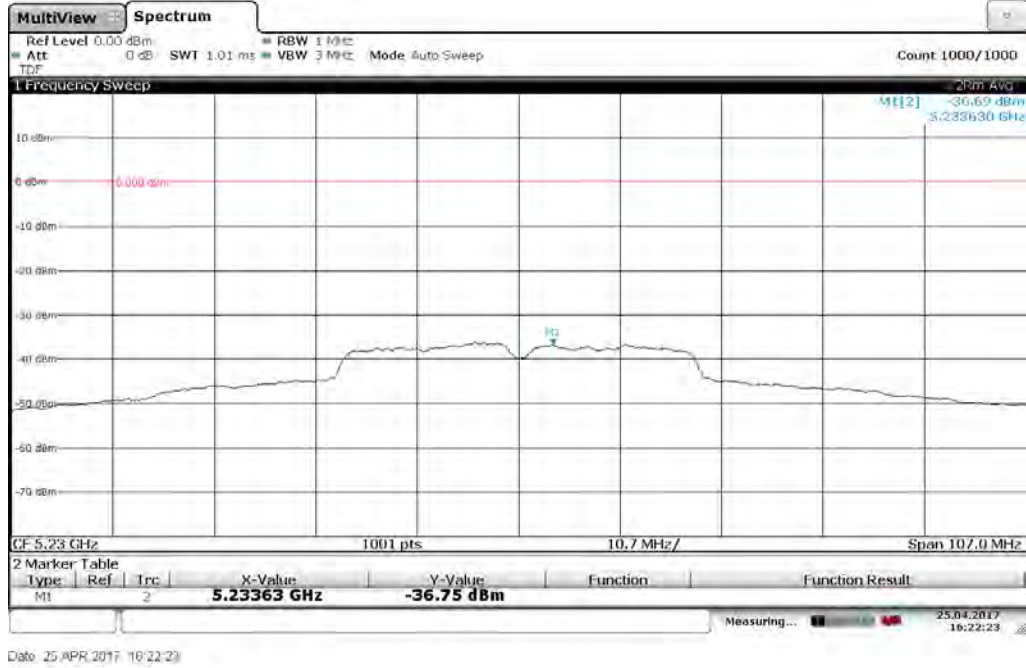


Date: 25 APR 2017 17:01:24

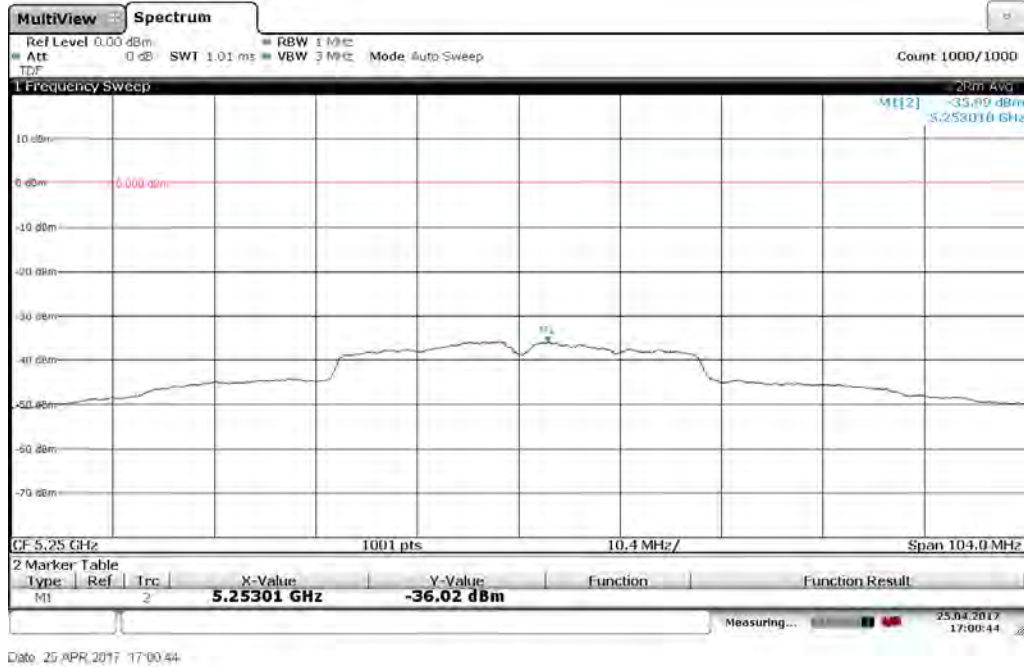
Low Channel – 5190 MHz, 802 11n MCS0 MM SG 150 Mbps, Out Spectral Density: -36.33 dBm



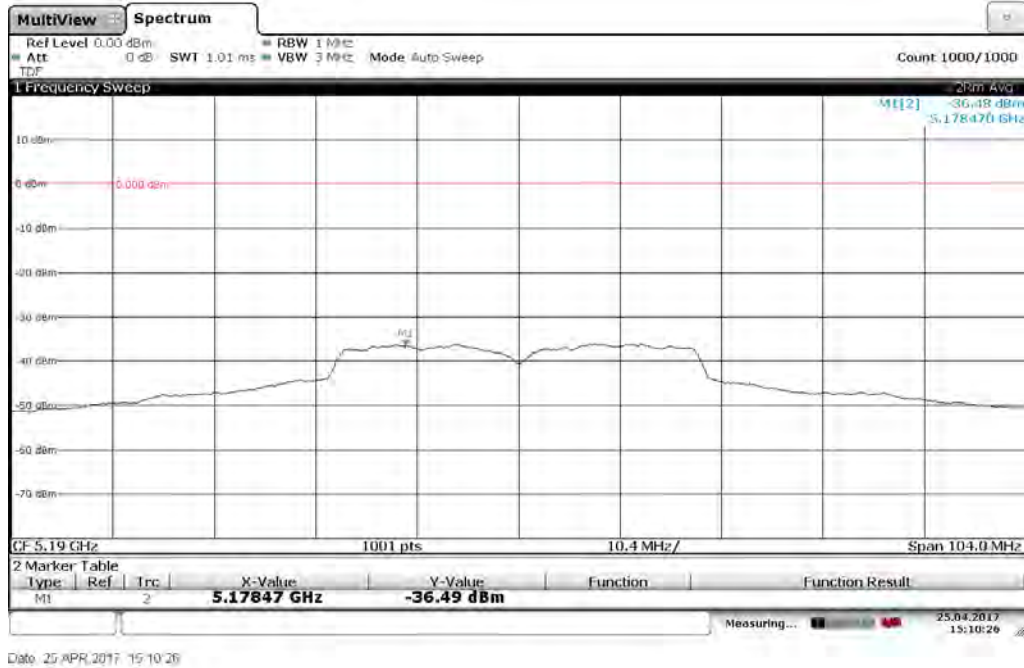
Mid Channel – 5230 MHz, 802 11n MCS0 MM SG 150 Mbps, Spectral Density: -36.75 dBm



High Channel – 5250 MHz, 802 11n MCS0 MM SG 150 Mbps, Spectral Density:-36.02 dBm



Low Channel – 5190 MHz, 802 11n MCS7 135, Spectral Density: -36.49 dBm

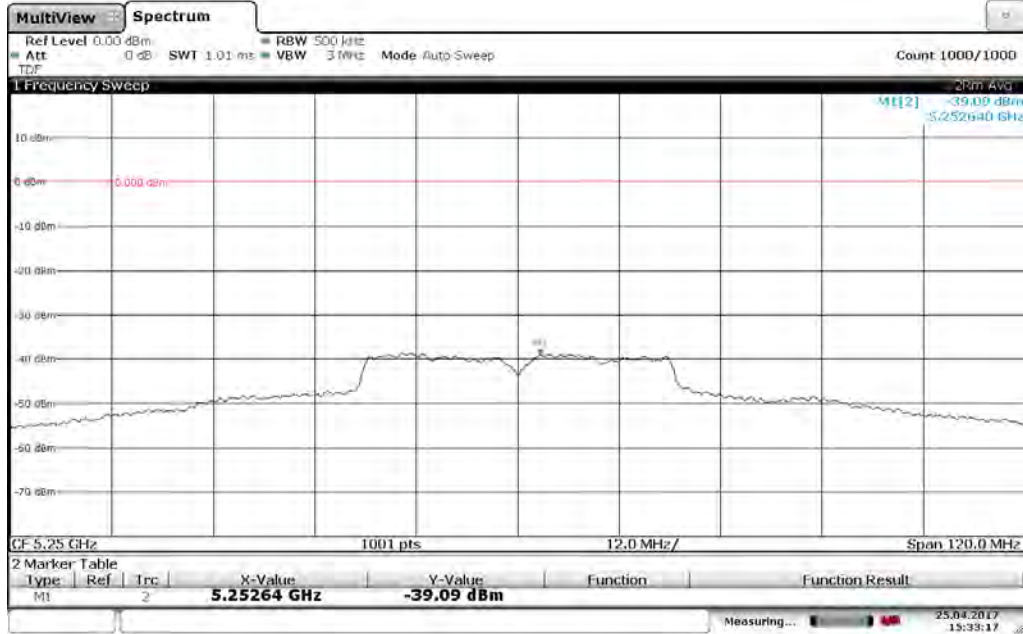


Mid Channel – 5230 MHz, 802 11n MCS7 135, Spectral Density: -34.79dBm



Date: 25 APR 2017 15:23:44

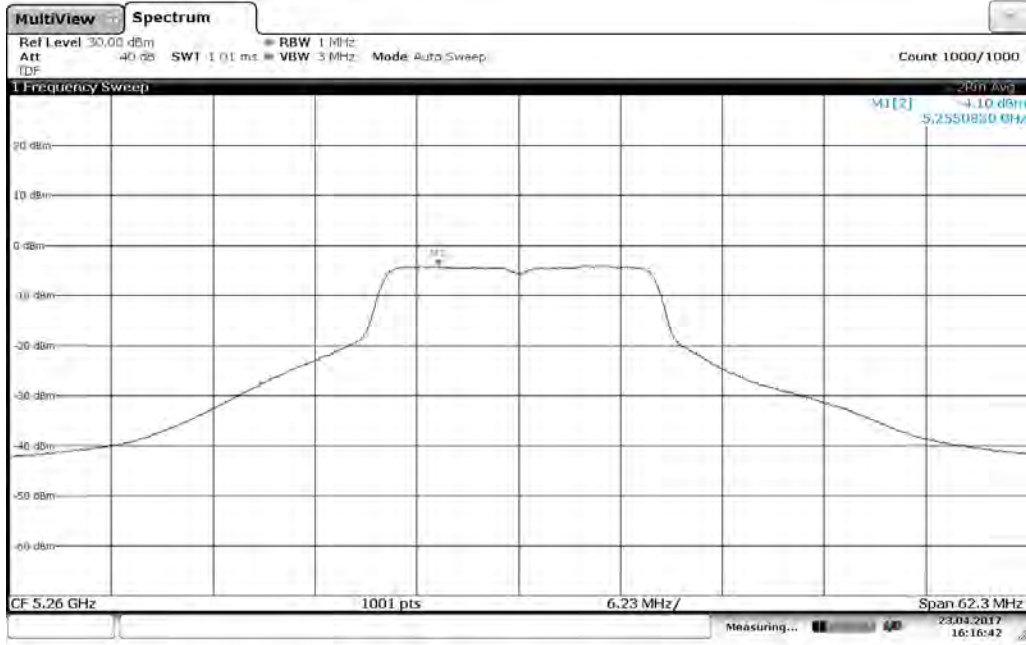
High Channel – 5250 MHz, 802 11n MCS7 135, Spectral Density: -39.09dBm



Date: 25 APR 2017 15:33:17

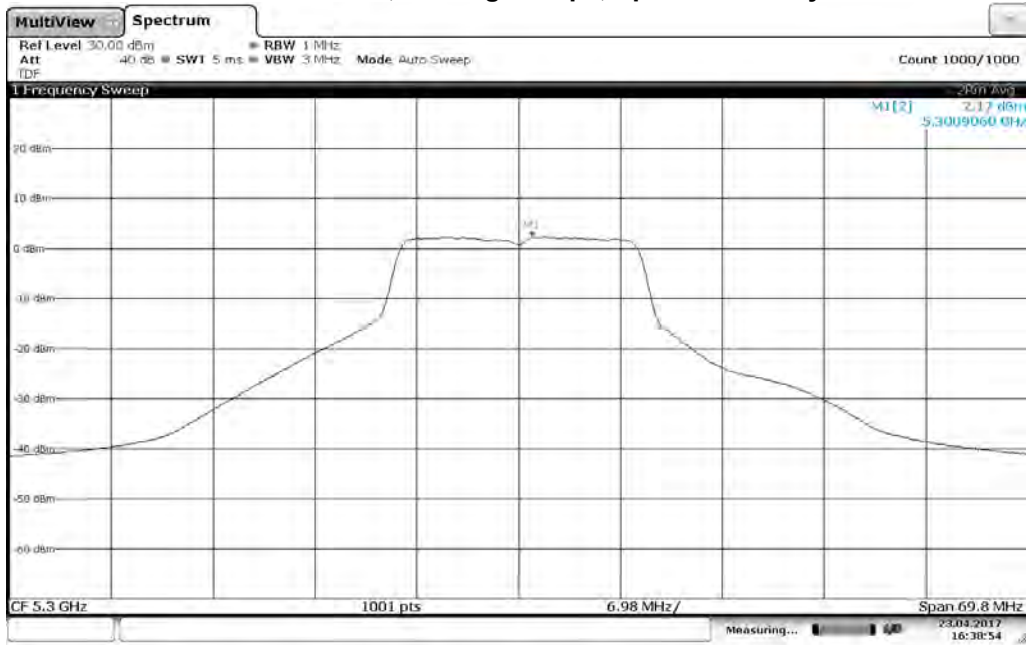
Band 2 (20 MHz Bandwidth)

Low Channel – 5260 MHz, 802 11g 6 Mbps, Spectral Density: -4.10 dBm



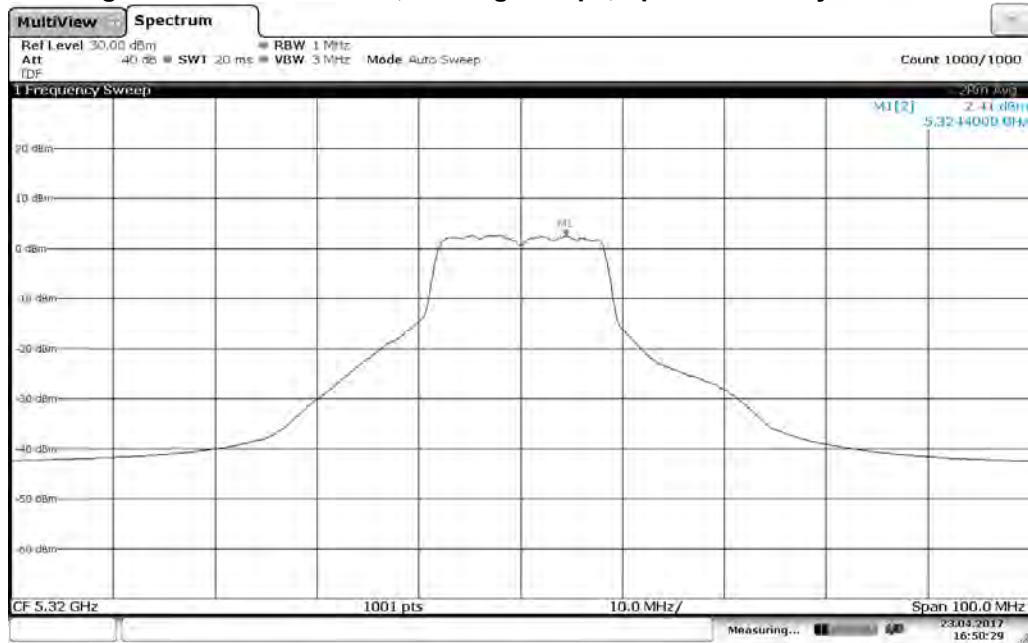
Date: 23 APR 2017 16:16:42

Mid Channel – 5300 MHz, 802 11g 6 Mbps, Spectral Density: 2.17 dBm



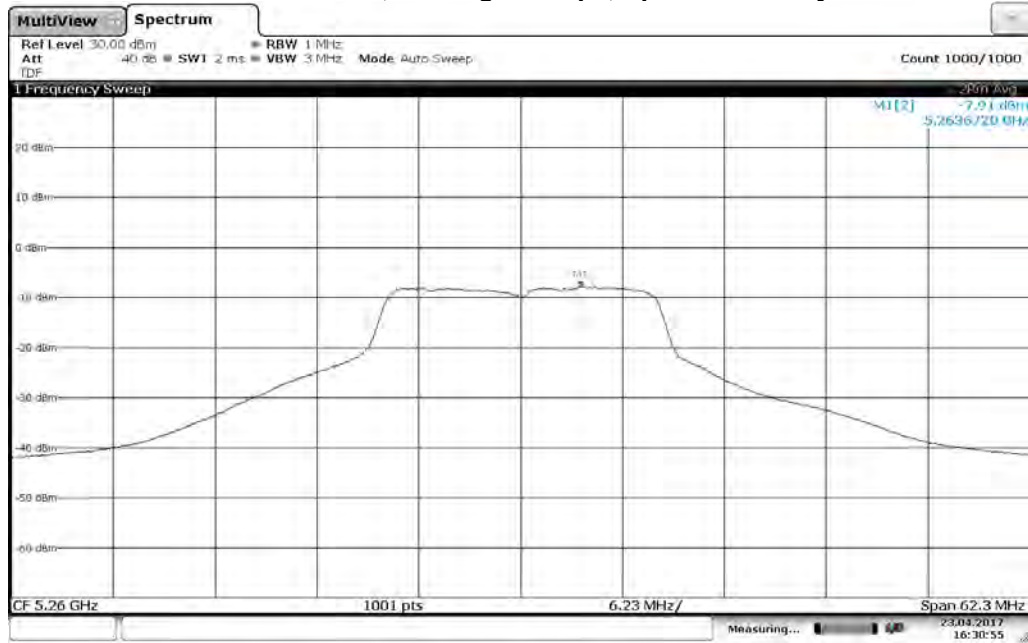
Date: 23 APR 2017 16:38:54

High Channel – 5320 MHz, 802 11g 6 Mbps, Spectral Density: 2.41 dBm



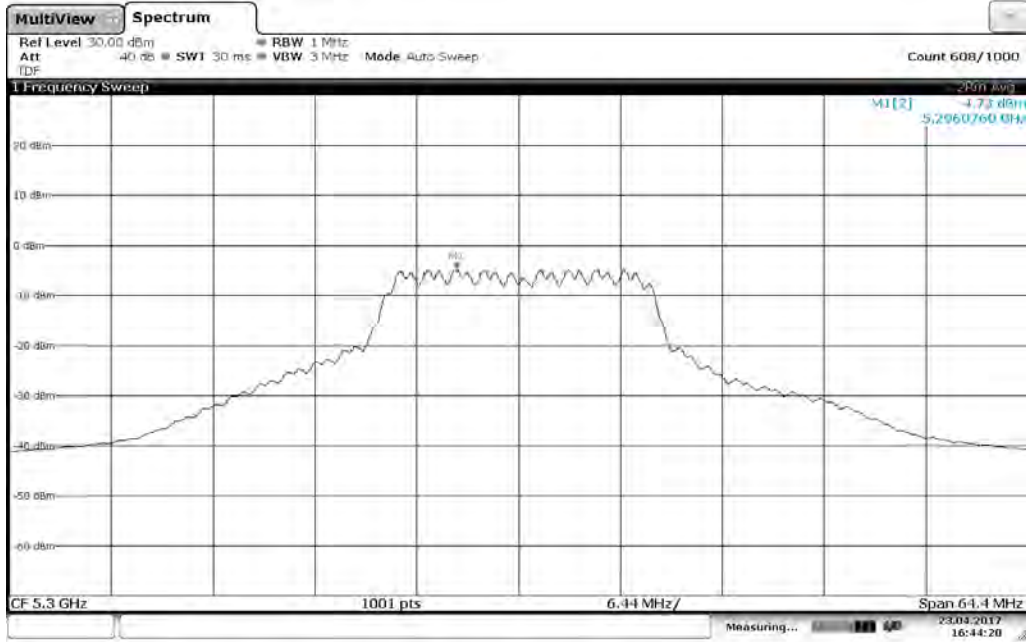
Date: 23 APR 2017 16:50:28

Low Channel – 5260 MHz, 802 11g 54 Mbps, Spectral Density: -7.91 dBm



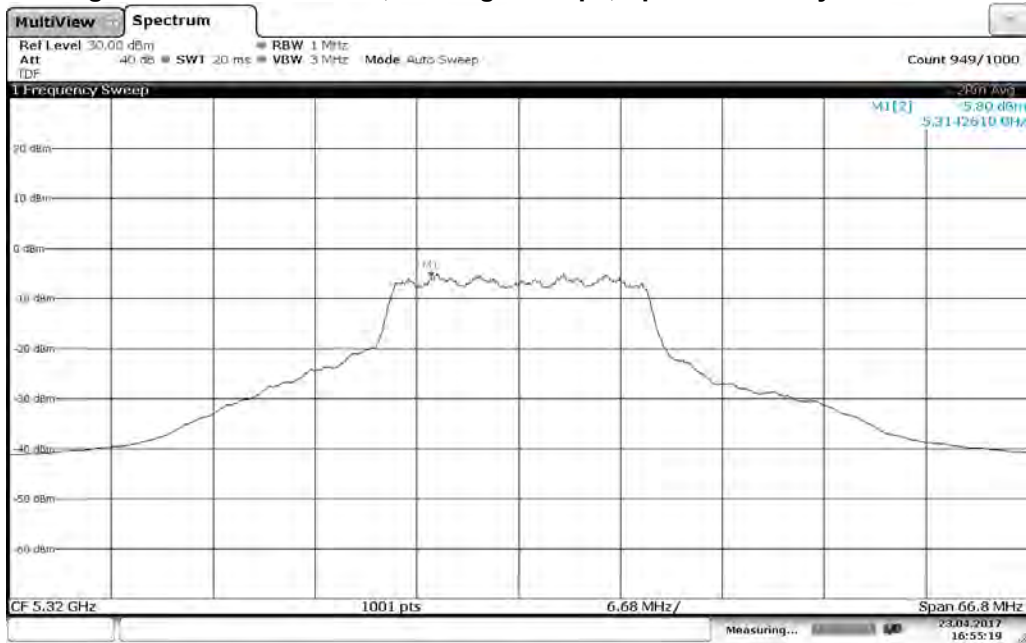
Date: 23 APR 2017 16:30:55

Mid Channel – 5300 MHz, 802 11g 54 Mbps, Spectral Density: -4.73 dBm



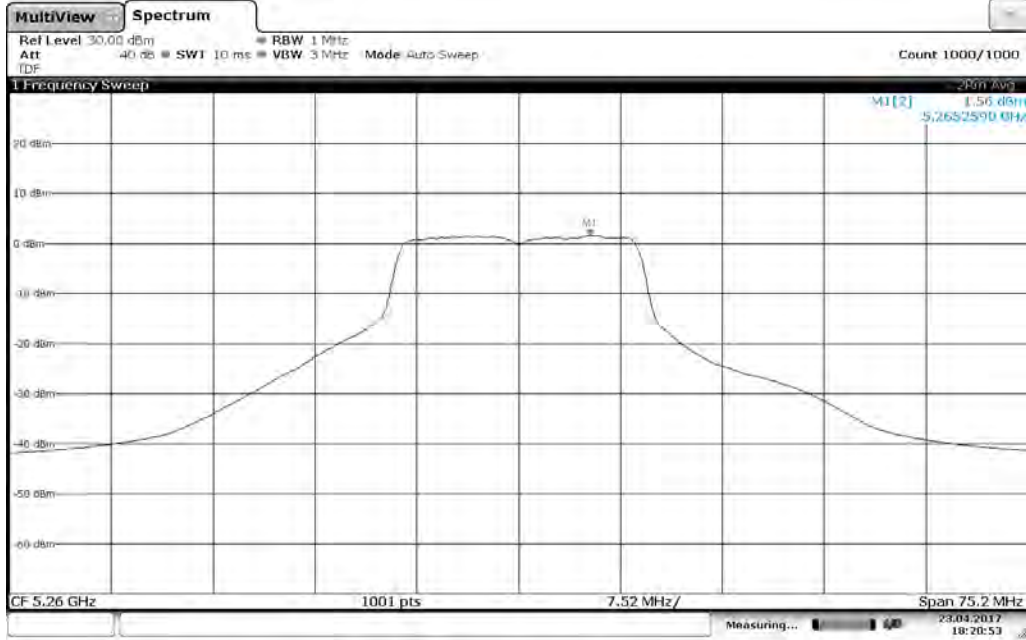
Date: 23 APR 2017 16:44:20

High Channel – 5320 MHz, 802 11g 54 Mbps, Spectral Density: -5.80 dBm



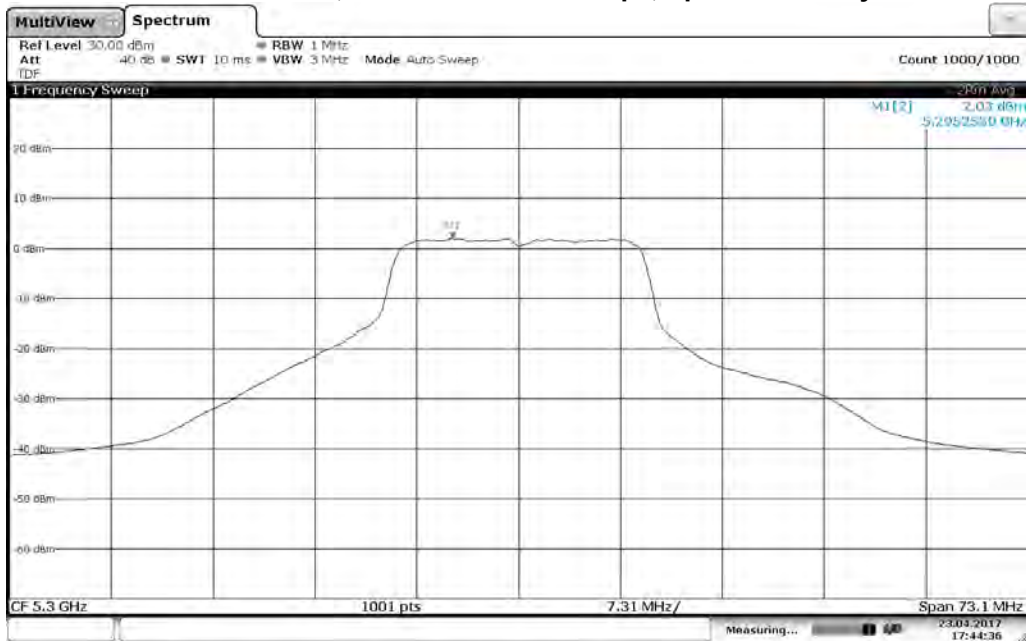
Date: 23 APR 2017 16:55:19

Low Channel – 5260 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: 1.56 dBm



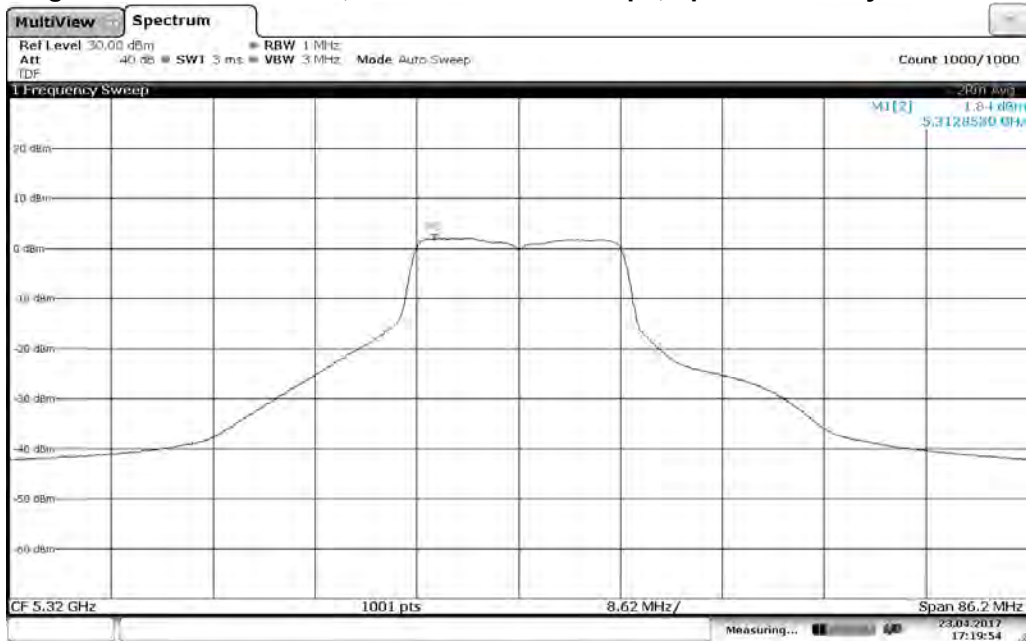
Date: 23 APR 2017 18:20:53

Mid Channel – 5300 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: 2.03 dBm



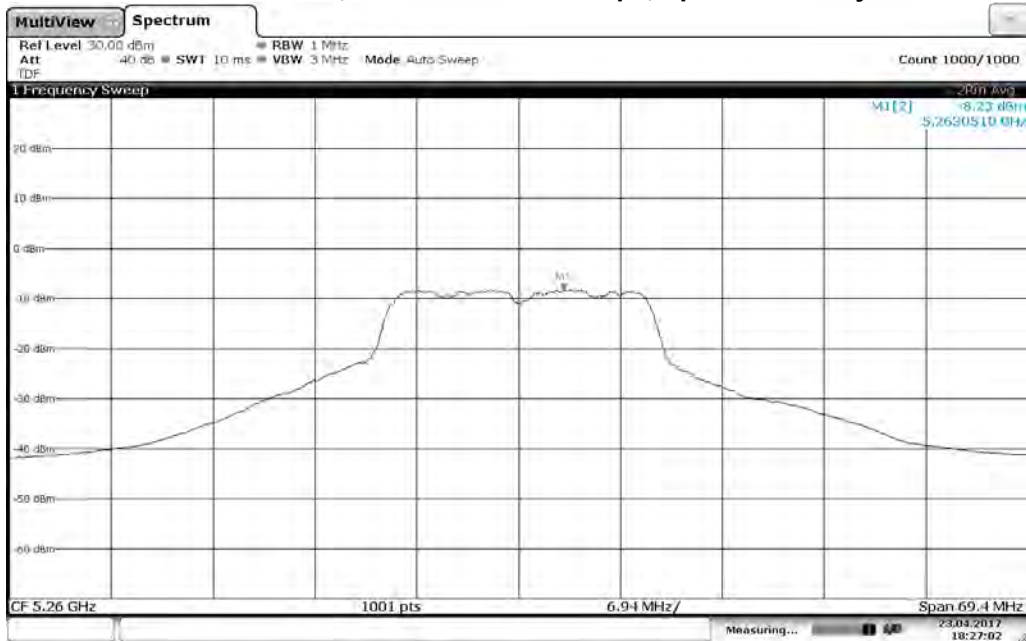
Date: 23 APR 2017 17:44:36

High Channel – 5320 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: 1.84 dBm



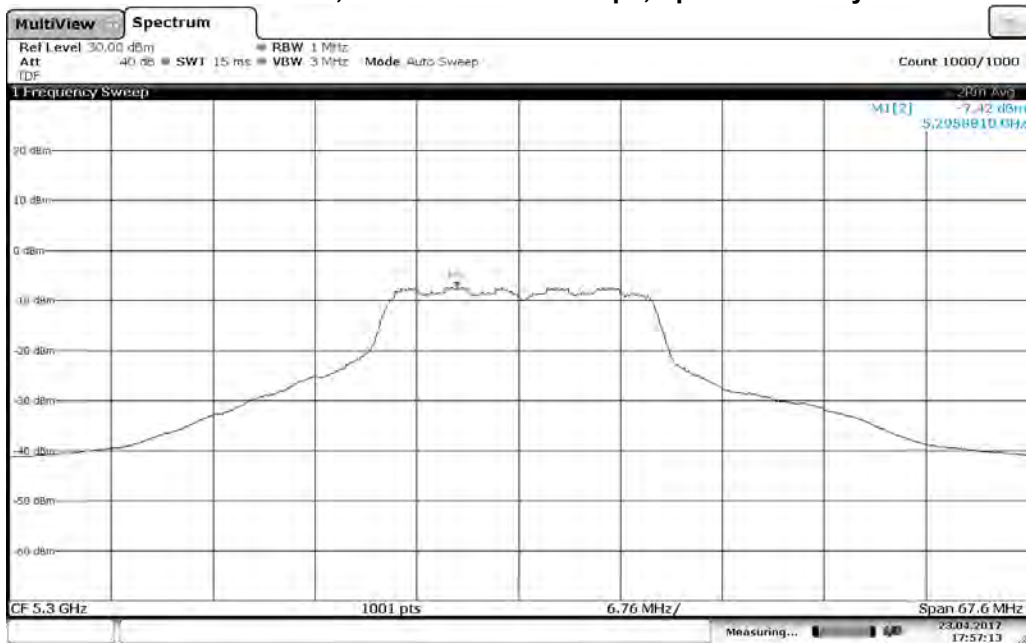
Date: 23 APR 2017 17:19:54

Low Channel – 5260 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -8.23 dBm



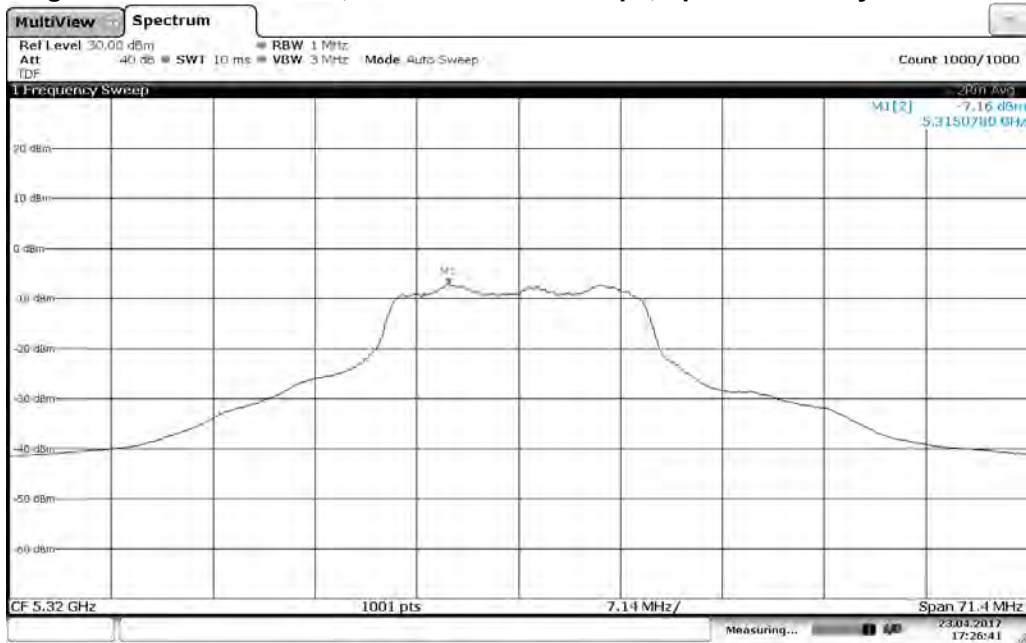
Date: 23 APR 2017 18:27:02

Mid Channel – 5300 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -7.42 dBm



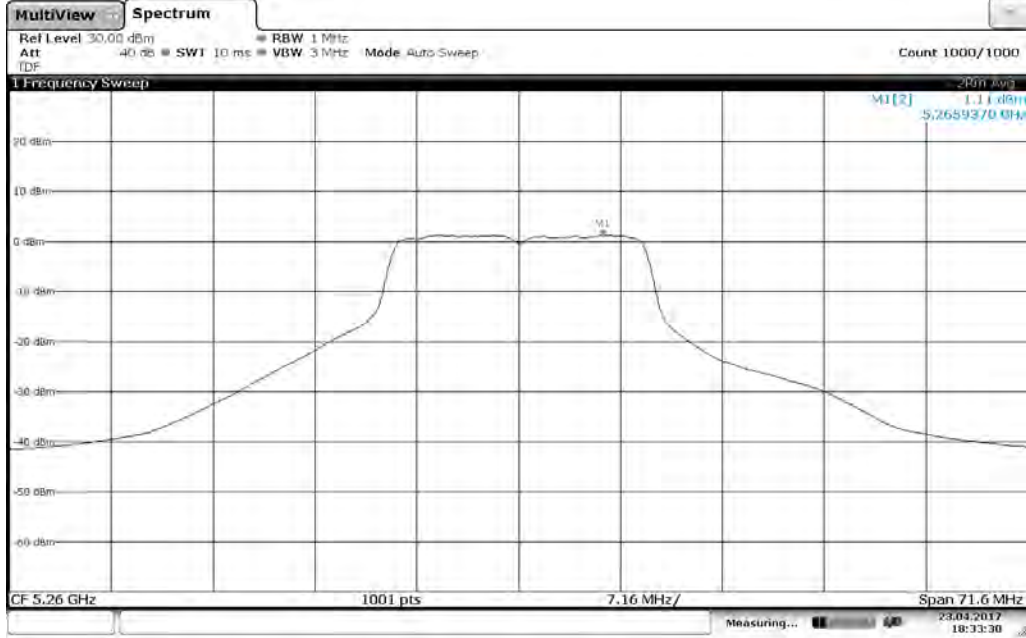
Date: 23 APR 2017 17:57:13

High Channel – 5320 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -8.23 dBm



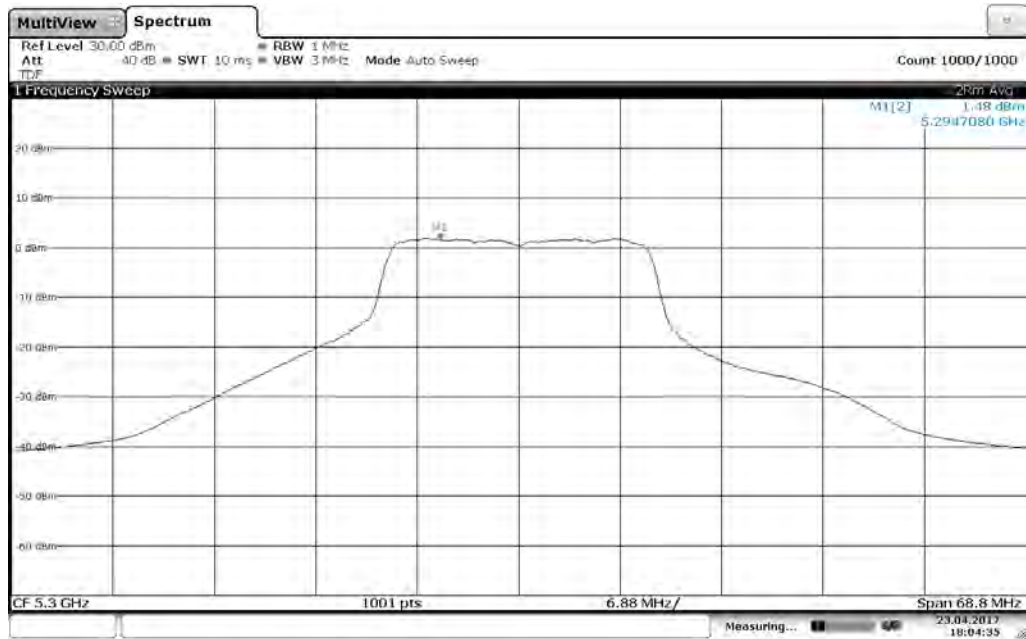
Date: 23 APR 2017 17:26:41

Low Channel – 5260 MHz, 802 11n MCS0MM 7.2 Mbps, Spectral Density: 1.11 dBm



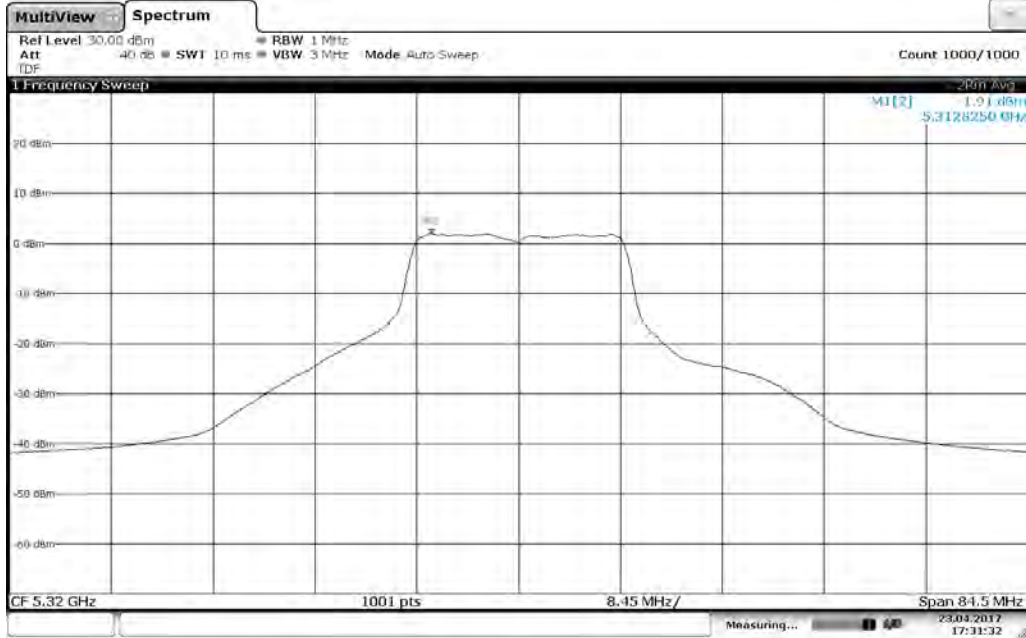
Date: 23 APR 2017 18:33:30

Mid Channel – 5300 MHz, 802 11n MCS0MM 7.2 Mbps, Spectral Density: 1.12 dBm



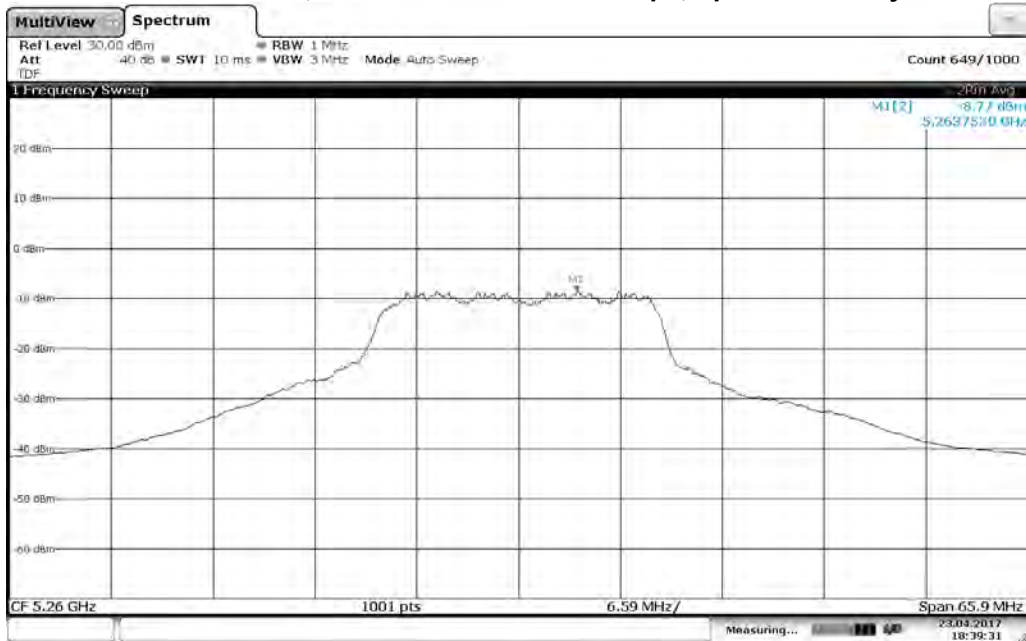
Date: 23 APR 2017 18:04:35

High Channel – 5300 MHz, 802 11n MCS0MM 7.2 Mbps, Spectral Density: 1.91 dBm



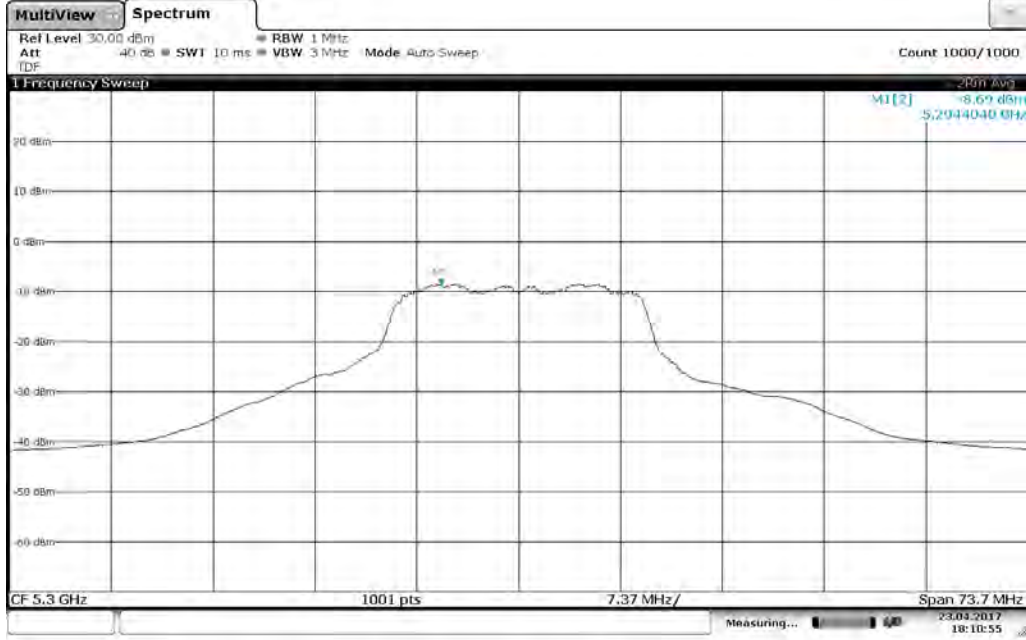
Date: 23 APR 2017 17:31:32

Low Channel – 5260 MHz, 802 11n MCS7MM 72.2 Mbps, Spectral Density: -8.77 dBm



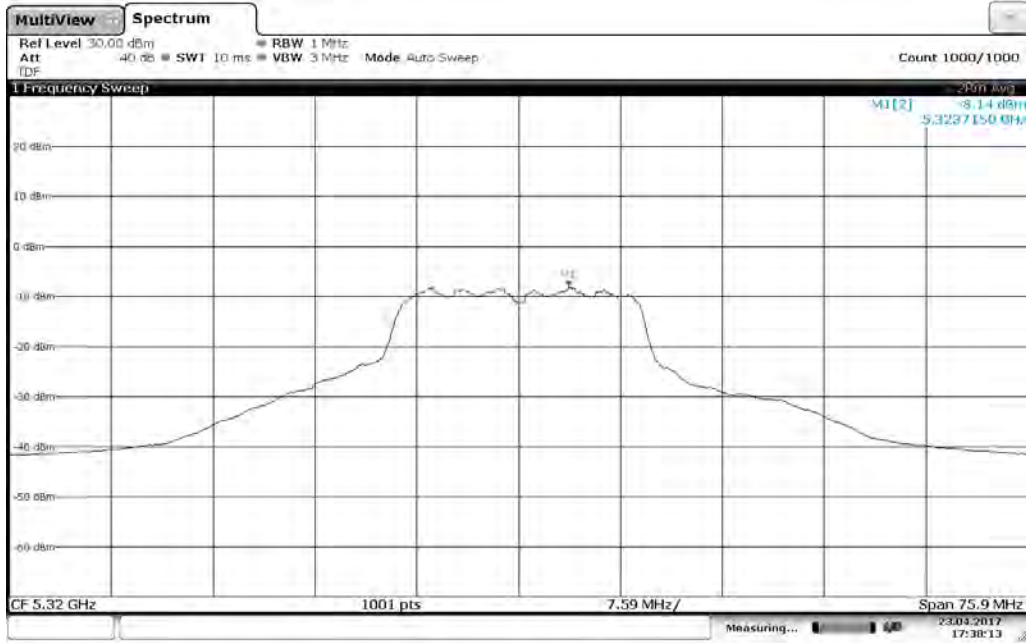
Date: 23 APR 2017 18:39:31

Mid Channel – 5200 MHz, 802 11n MCS7MM 72.2 Mbps, Spectral Density: -8.69 dBm



Date: 23 APR 2017 18:10:55

High Channel – 5200 MHz, 802 11n MCS7MM 72.2 Mbps, Spectral Density: -8.14 dBm



Date: 23 APR 2017 17:38:13

Low Channel – 5270 MHz, 802 11n MCS0 13.5, Spectral Density: -13.88 dBm



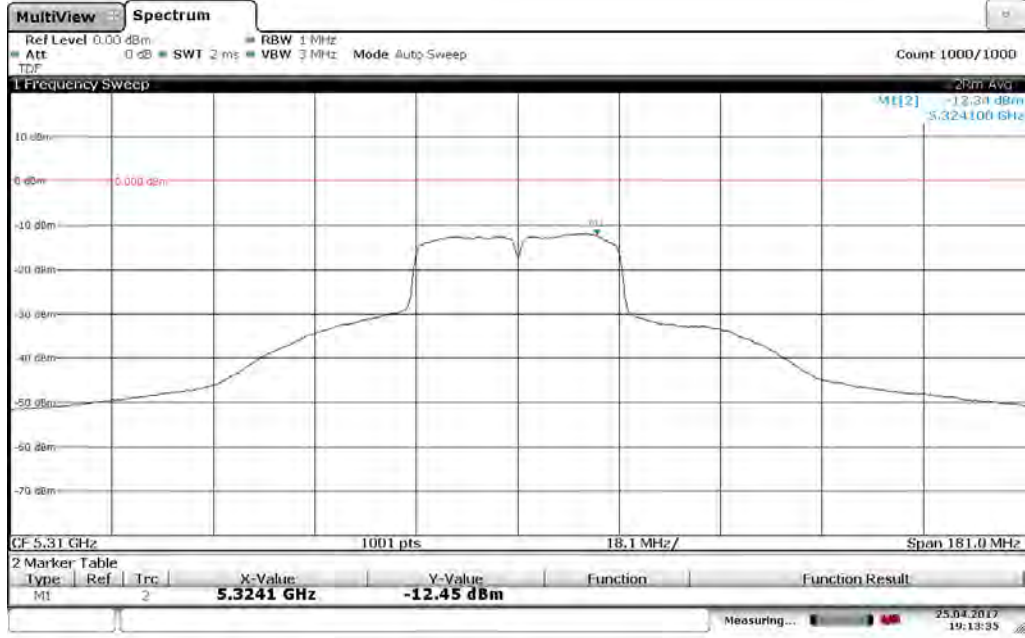
Date: 25 APR, 2017 17:42:16

Mid Channel – 5290 MHz, 802 11n MCS0 13.5, Spectral Density: -13.09 dBm



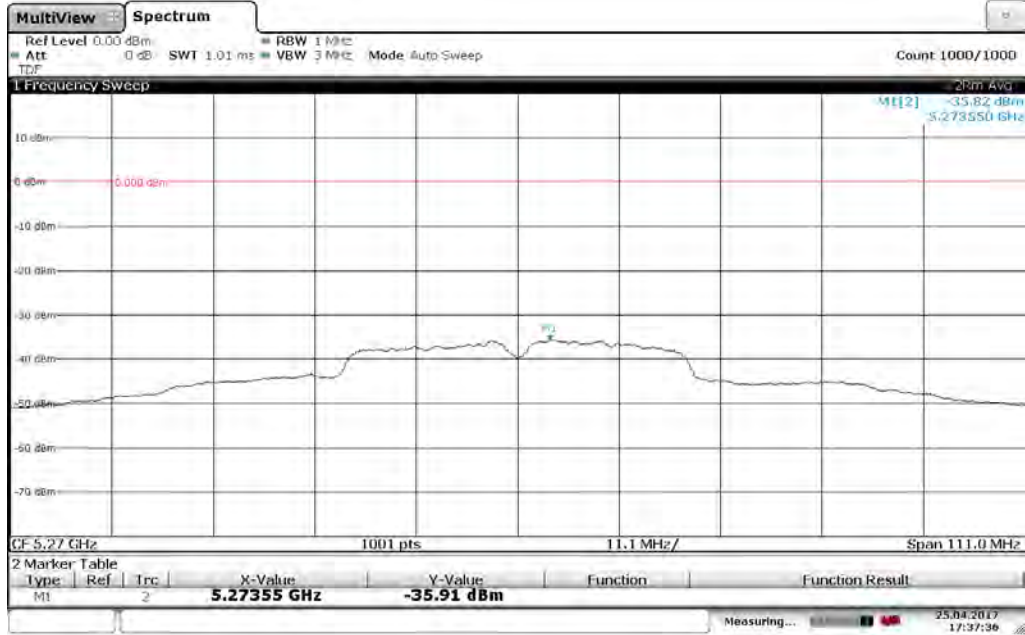
Date: 25 APR, 2017 18:46:53

High Channel – 5310 MHz, 802 11n MCS0 13.5, Spectral Density: -12.45 dBm



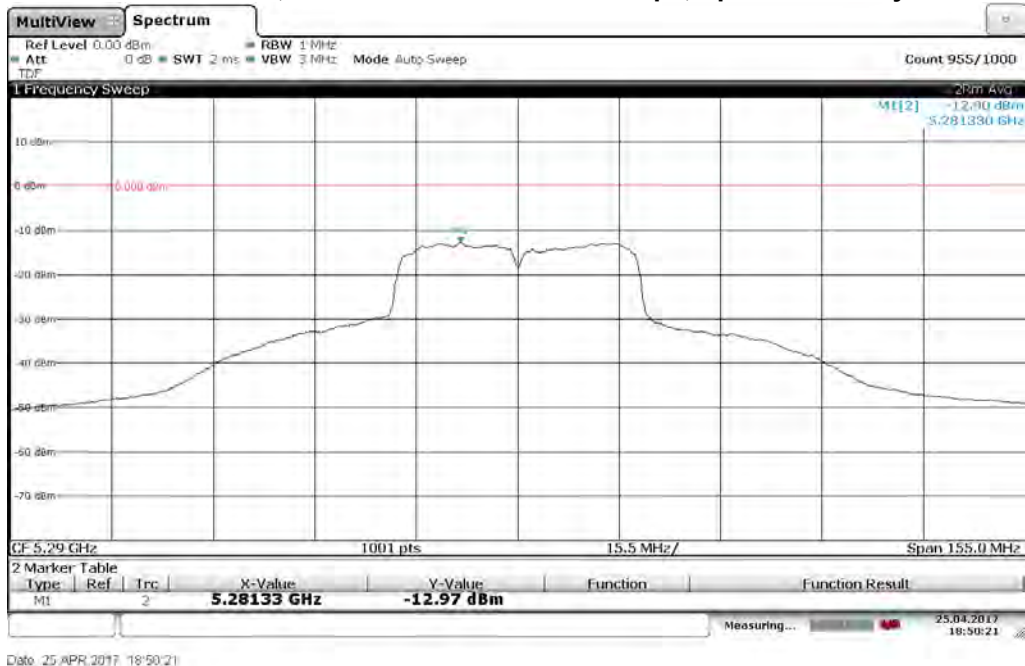
Date: 25 APR 2017 19:13:35

Low Channel – 5270 MHz, 802 11n MCS0 MM SG 15 Mbps, Spectral Density: -35.91dBm

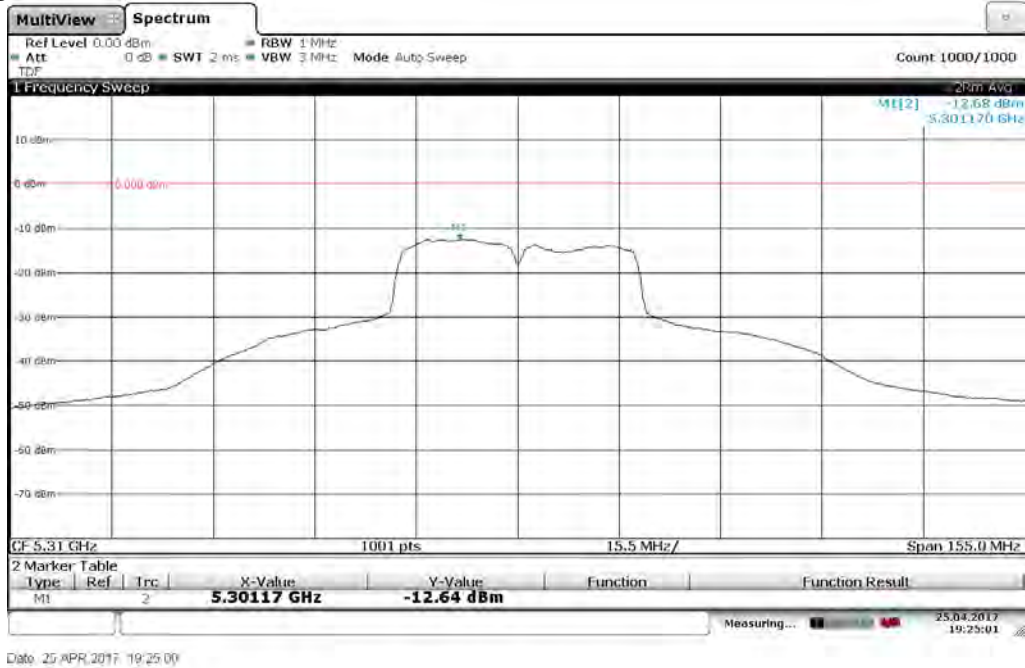


Date: 25 APR 2017 17:37:36

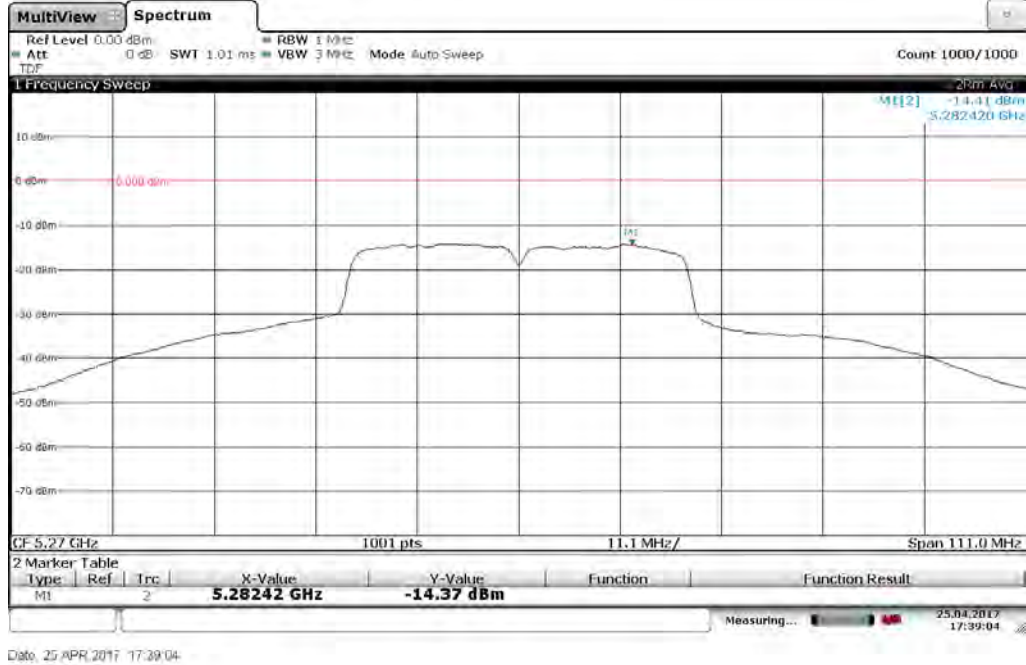
Mid Channel – 5290 MHz, 802 11n MCS0 MM SG 15 Mbps, Spectral Density: -12.97 dBm



High Channel – 5310 MHz, 802 11n MCS0 MM SG 15 Mbps, Spectral Density: -12.64dBm



Low Channel – 5270 MHz, 802 MCS0 MM SG 150 Mbps, Spectral Density: -14.37 dBm



Mid Channel – 5290 MHz, 802 MCS0 MM SG 150 Mbps, Spectral Density: -37.04 dBm

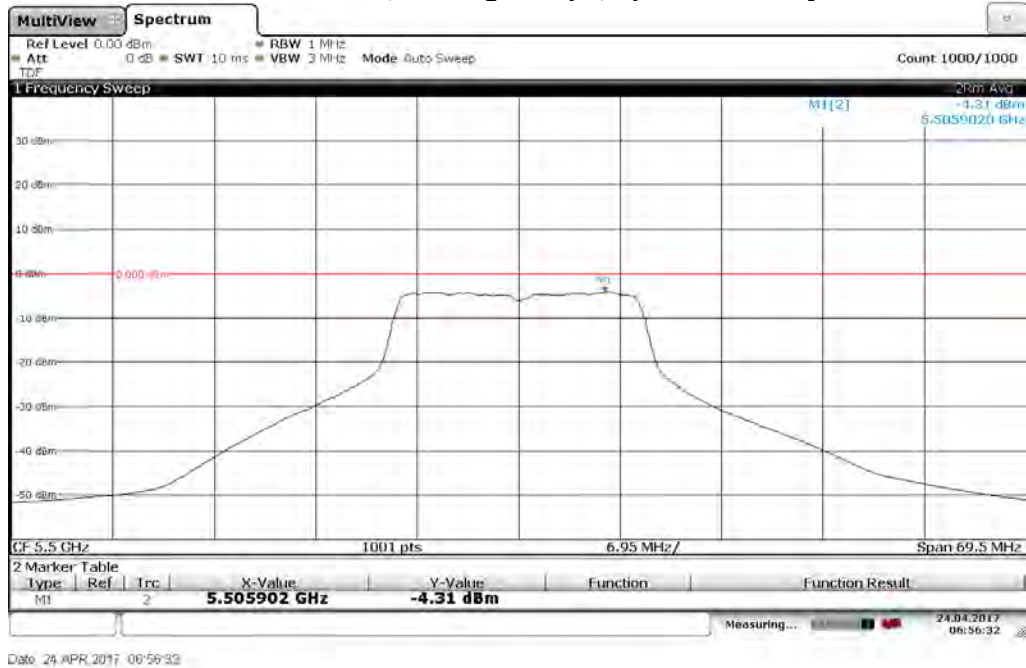


High Channel – 5310 MHz, 802 MCS0 MM SG 150 Mbps, Spectral Density: -37.90 dBm

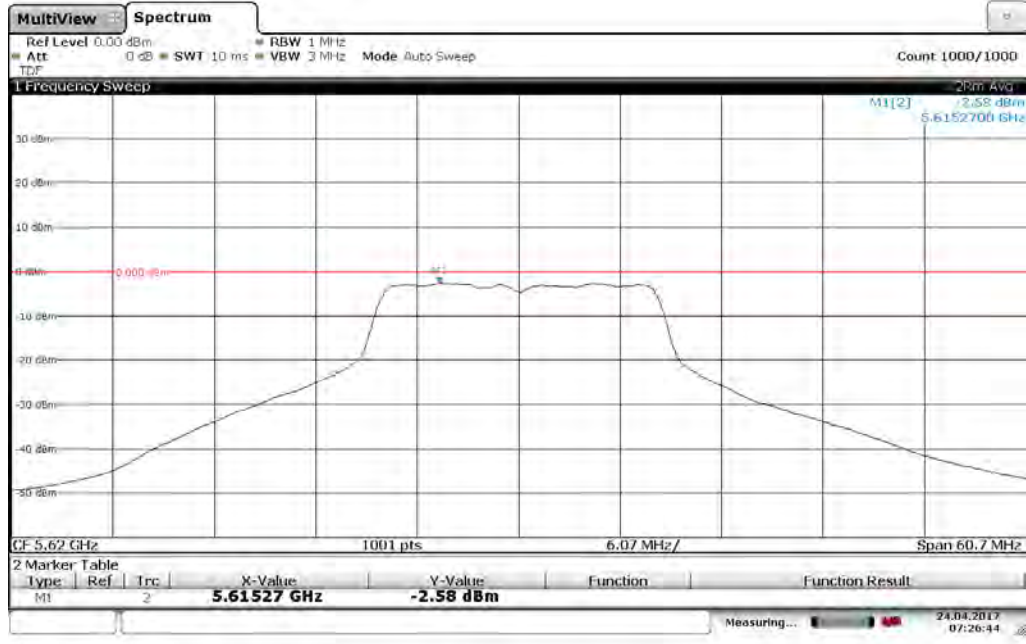


Band 3 (20 MHz Bandwidth)

Low Channel – 5500 MHz, 802 11g 6 Mbps, Spectral Density: -4.31 dBm

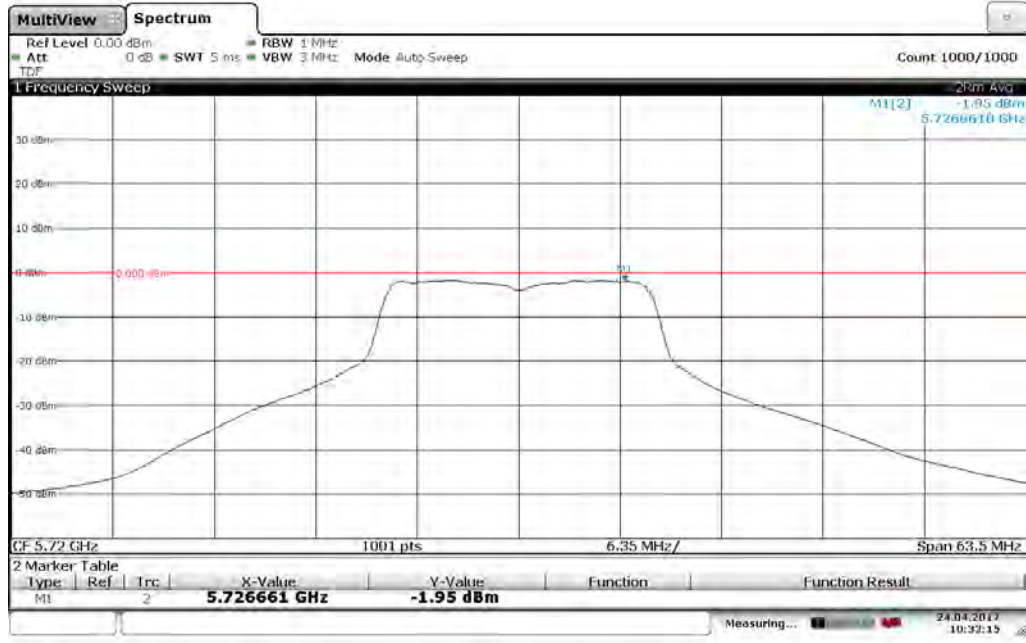


Mid Channel – 56200 MHz, 802 11g 6 Mbps, Spectral Density: -2.58 dBm



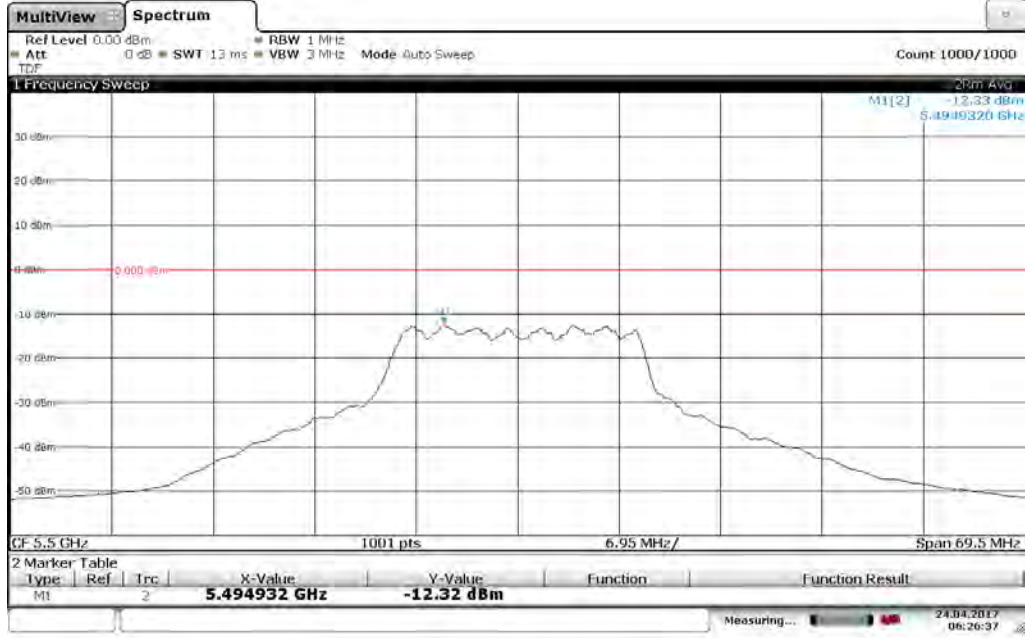
Date: 24 APR 2017 07:26:44

High Channel – 5720 MHz, 802 11g 6 Mbps, Spectral Density: -1.95 dBm



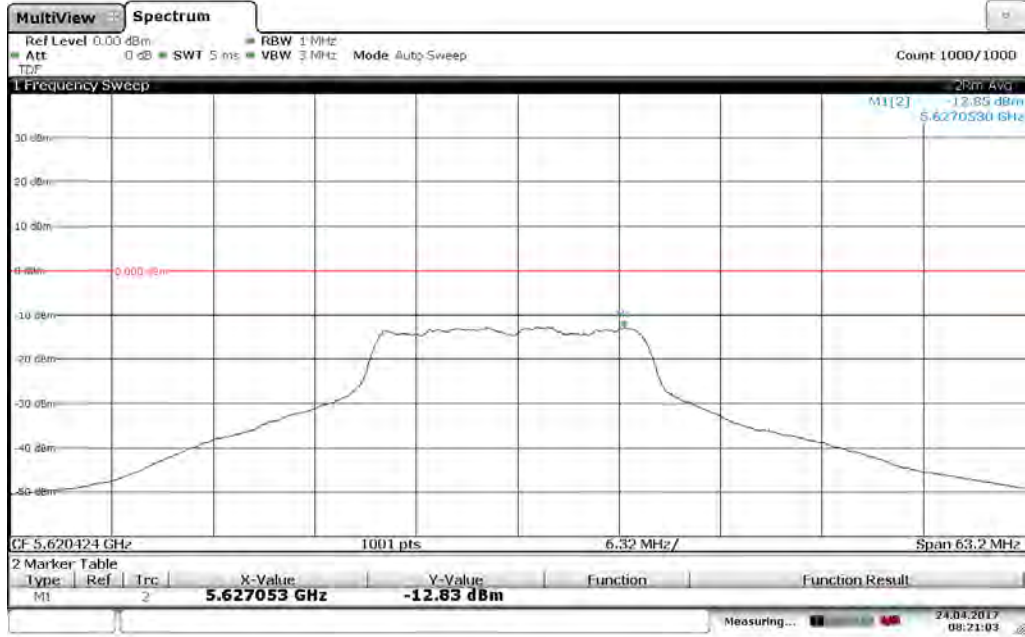
Date: 24 APR 2017 10:32:15

Low Channel – 5500MHz, 802 11g 54 Mbps, Spectral Density: -12.32 dBm



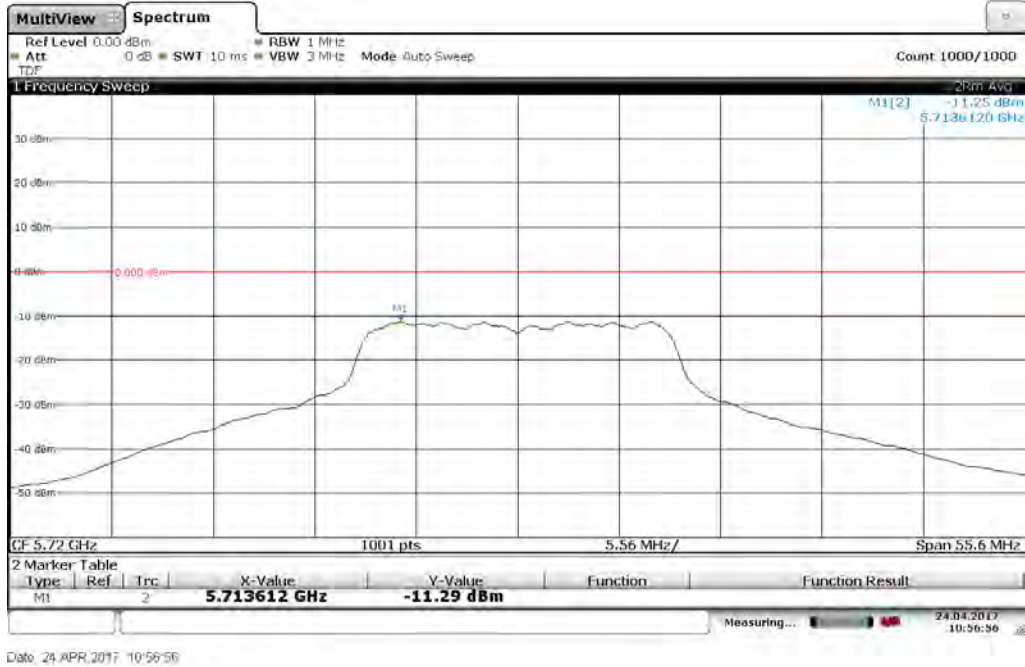
Date: 24 APR 2017 06:26:36

Mid Channel – 5620 MHz, 802 11g 54 Mbps, Spectral Density: -12.83 dBm

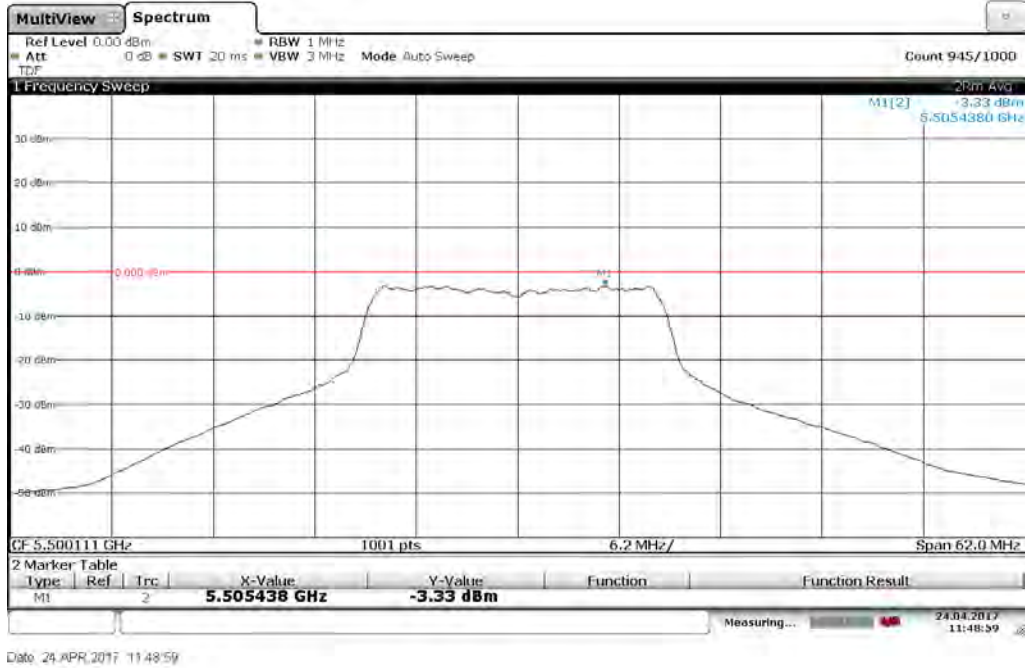


Date: 24 APR 2017 08:21:02

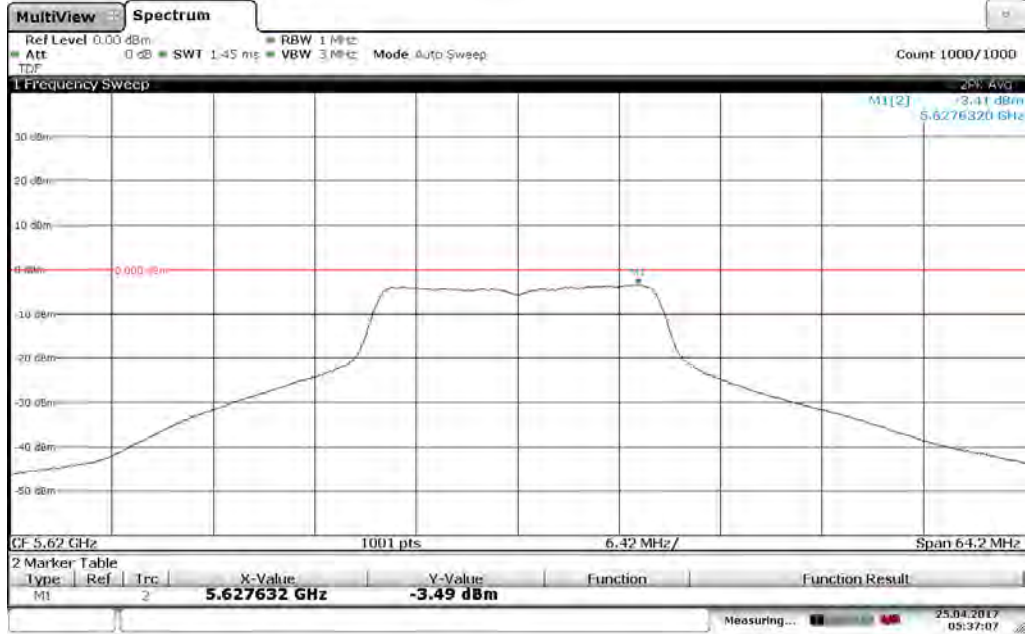
High Channel – 5720 MHz, 802 11g 54 Mbps, Spectral Density: -11.29 dBm



Low Channel – 5500 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -3.33 dBm

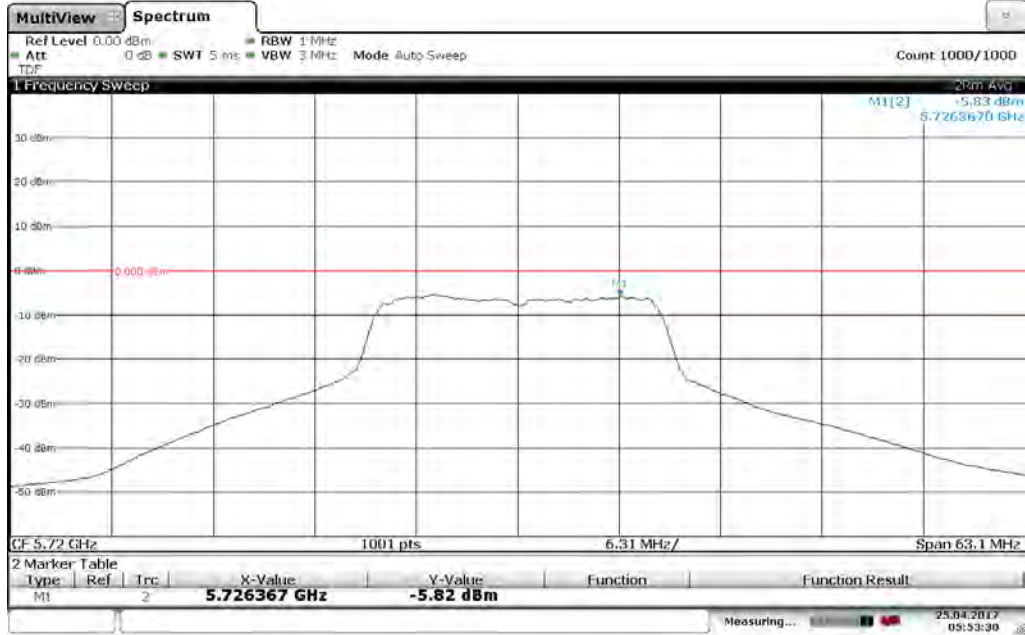


Mid Channel – 5620 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -3.49 dBm



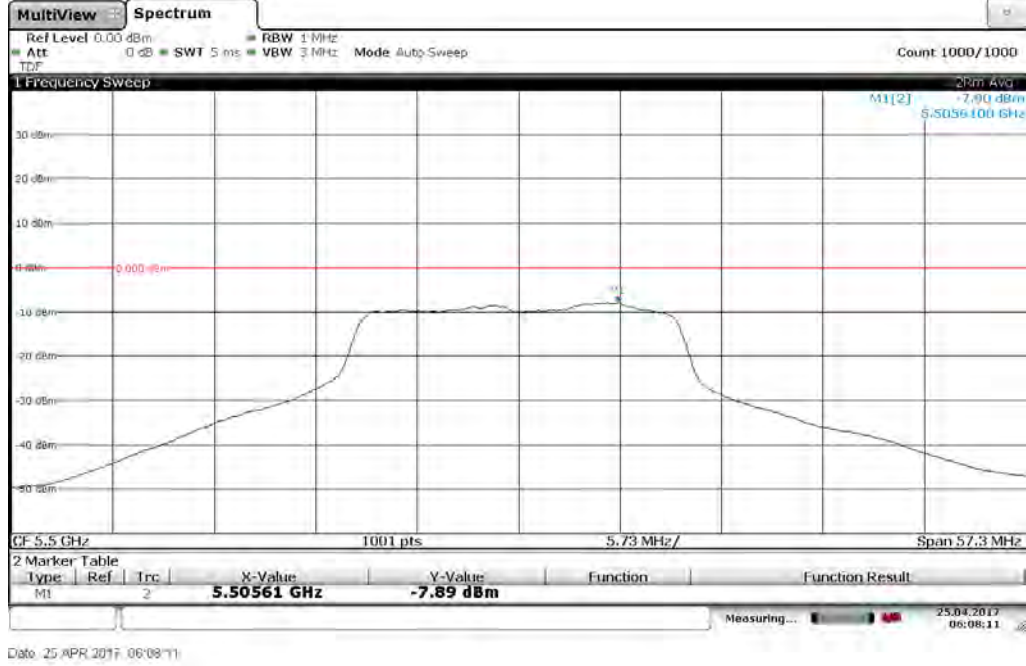
Date: 25 APR 2017 05:37:07

High Channel – 5720 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -5.82 dBm

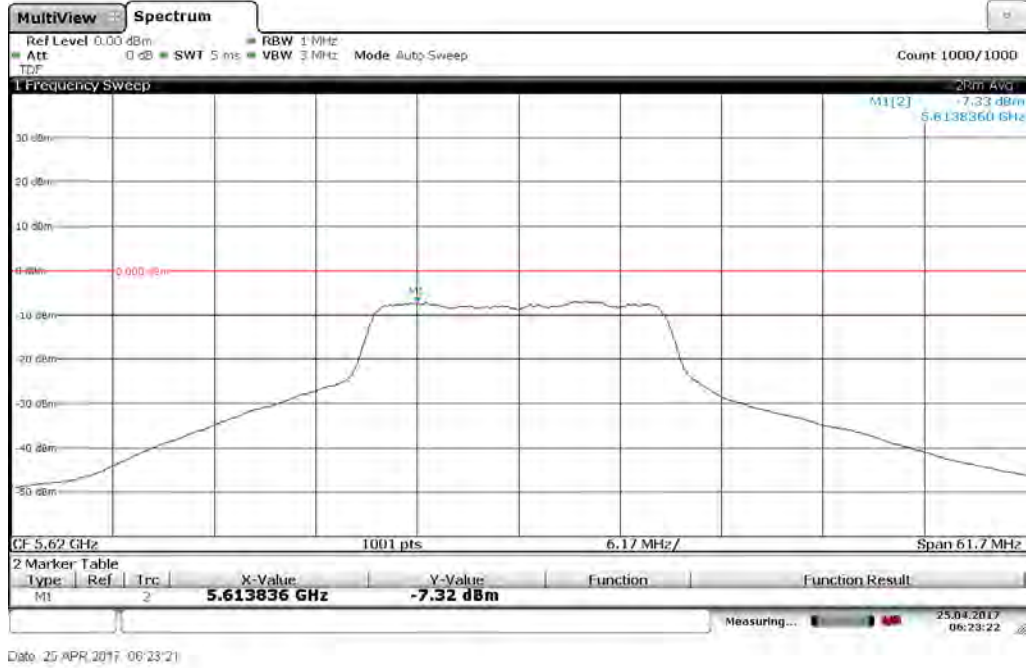


Date: 25 APR 2017 05:53:30

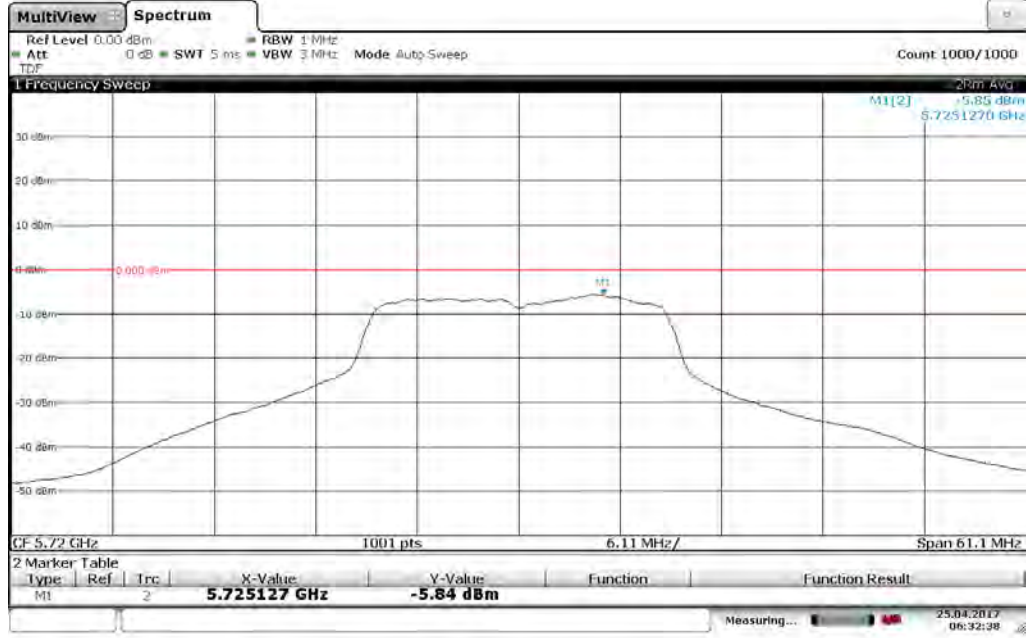
Low Channel – 5500 MHz, 802 11n MCS0 SG 7.2 Mbps, Spectral Density: -7.89 dBm



Mid Channel – 5620 MHz, 802 11n MCS0 SG 7.2 Mbps, Spectral Density: -7.32 dBm

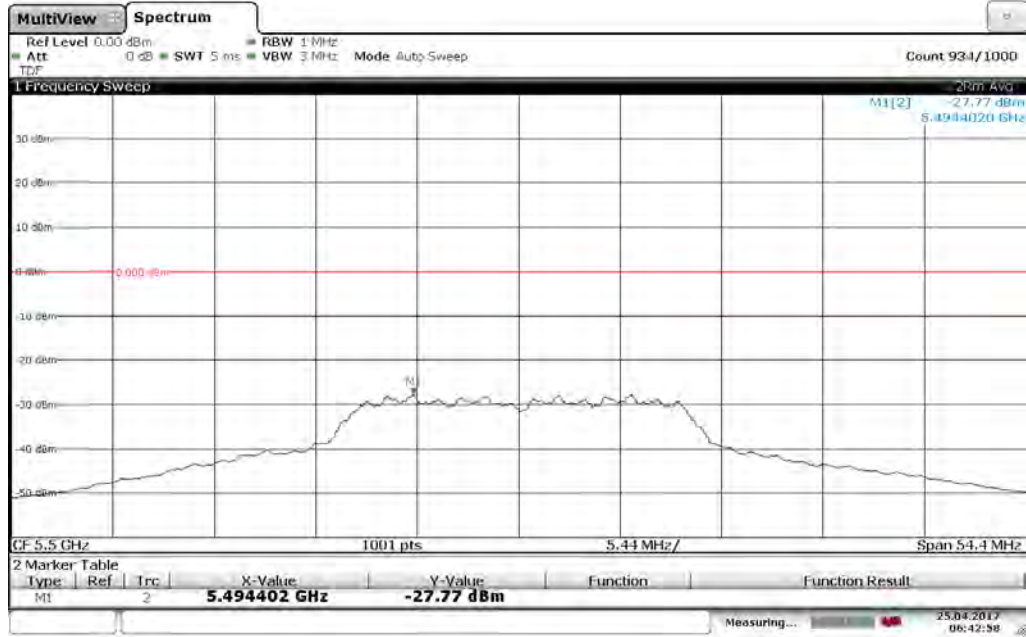


High Channel – 5720 MHz, 802 11n MCS0 SG 7.2 Mbps, Spectral Density: -5.84 dBm



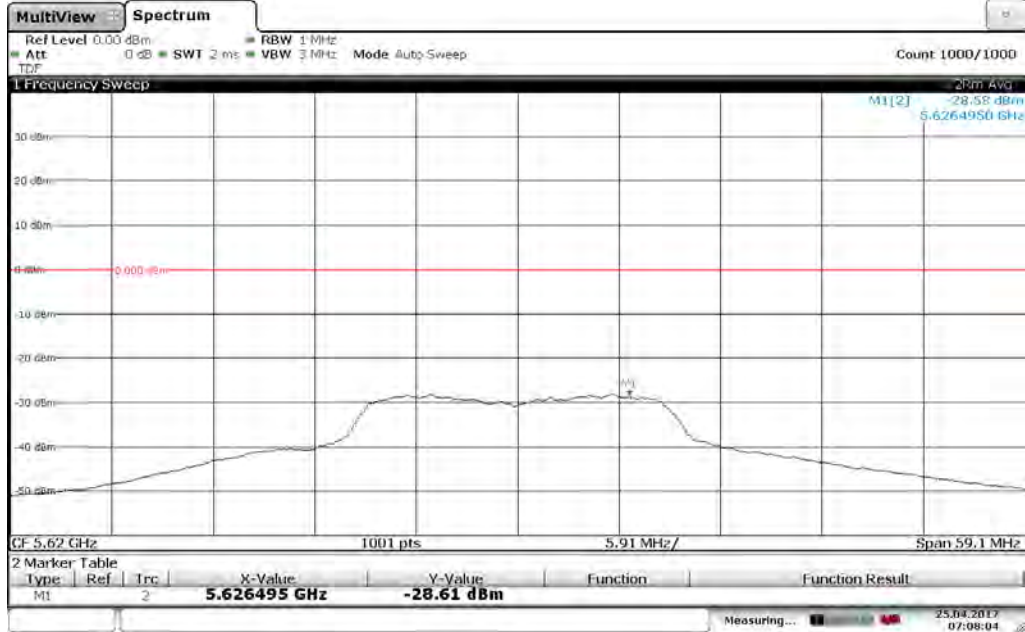
Date: 25 APR 2017 06:32:38

Low Channel – 5500 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -27.77 dBm



Date: 25 APR 2017 06:42:58

Mid Channel – 5620 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -28.61dBm



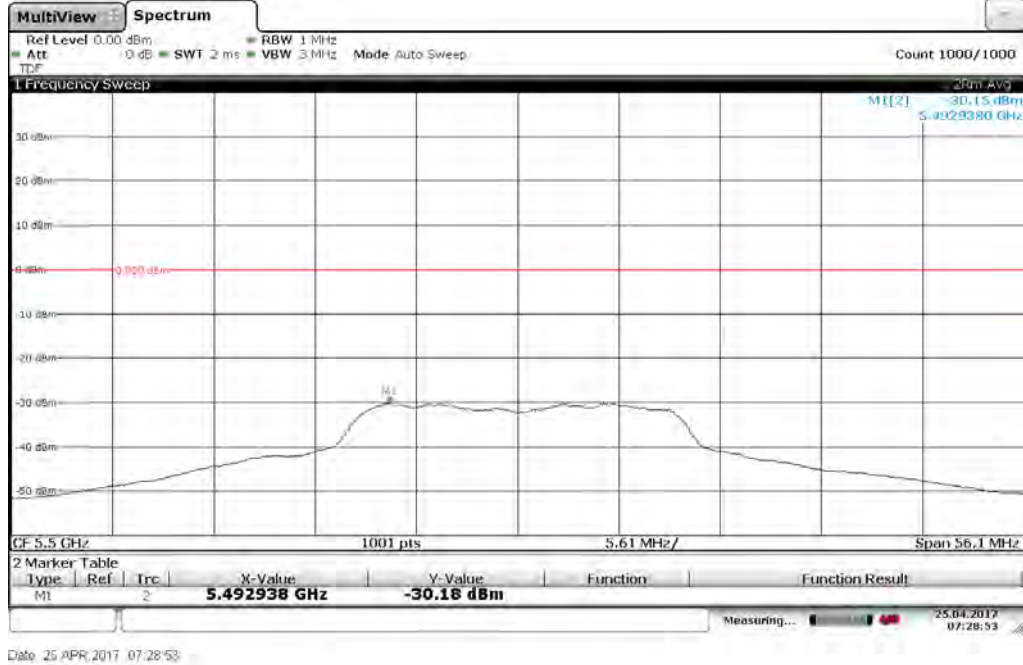
Date: 25 APR 2017 07:08:04

High Channel – 5720 MHz, 80211n MCS7 65 Mbps, Spectral Density: -27.56 dBm

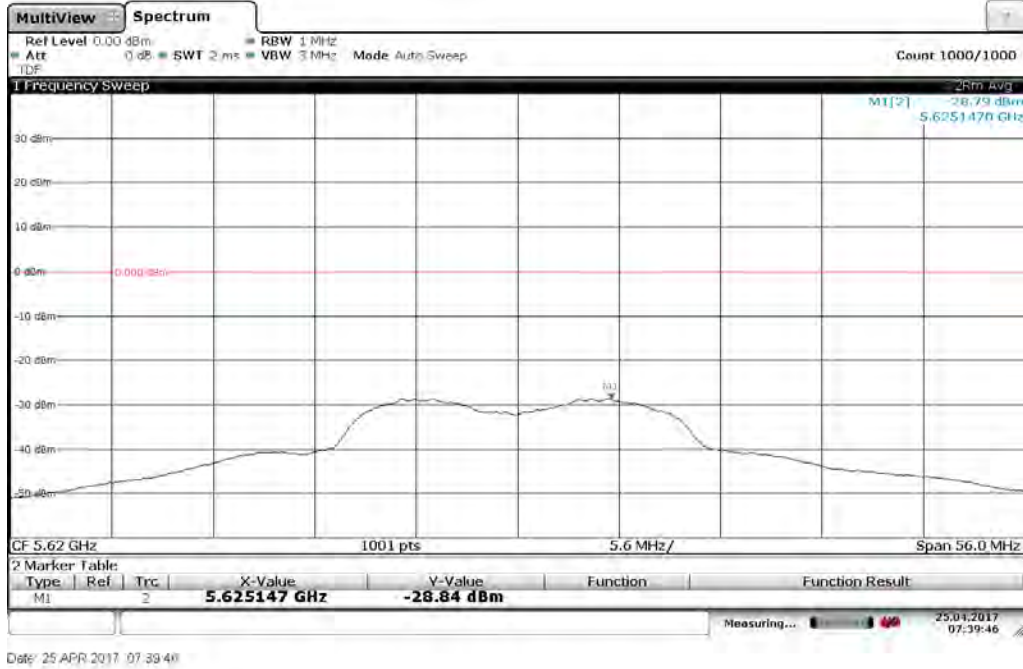


Date: 25 APR 2017 07:17:18

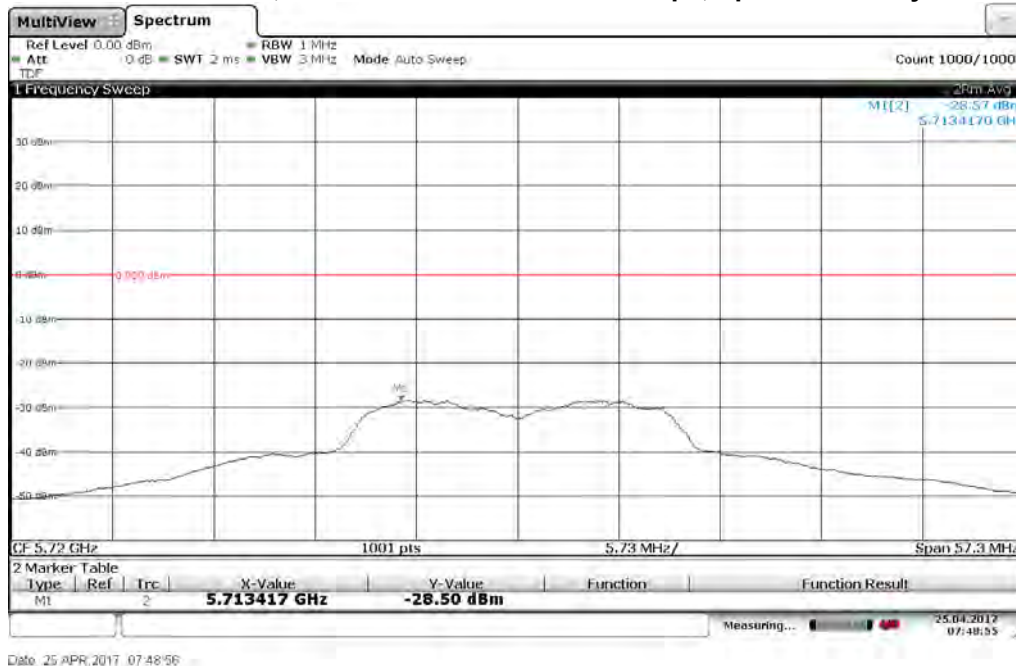
Low Channel – 5500 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Spectral Density: -30.18 dBm



Mid Channel – 5620 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Spectral Density: -28.84 dBm

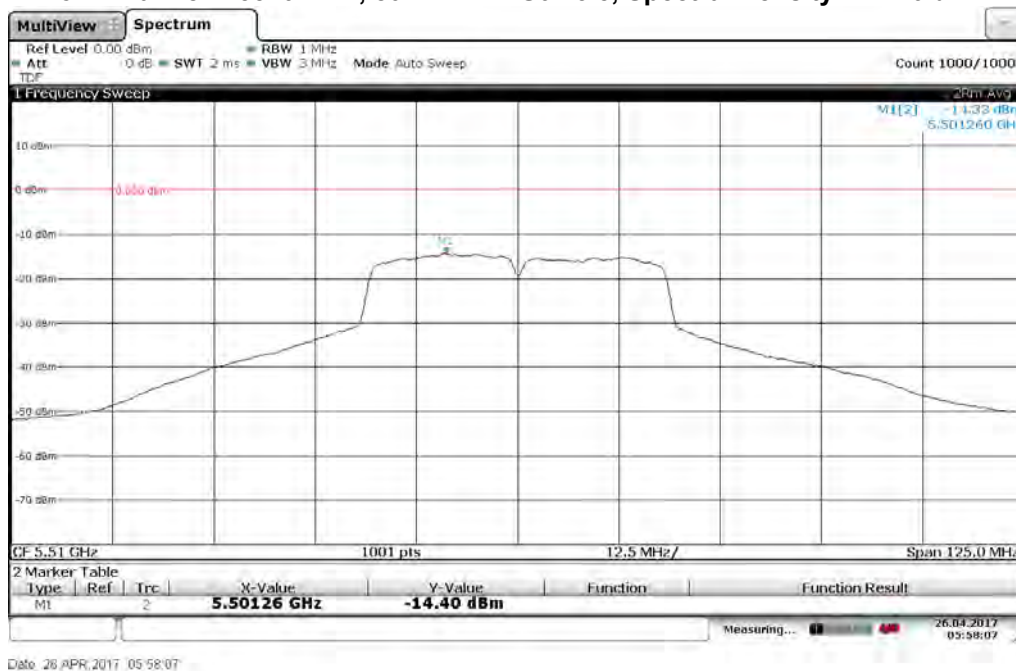


High Channel – 5720 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Spectral Density: -28.50 dBm

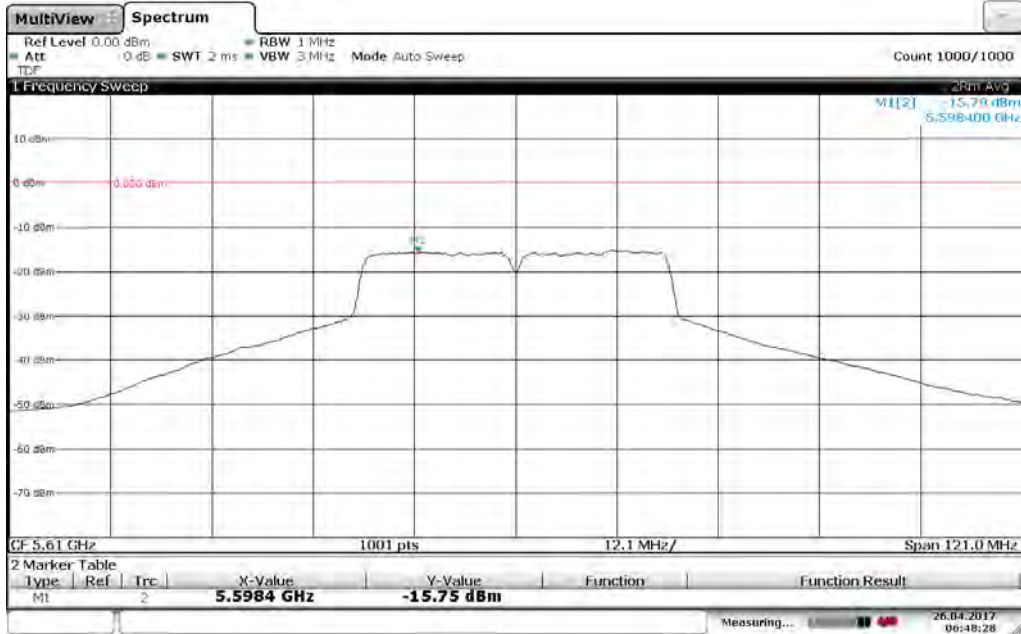


Band 3 (40 MHz Bandwidth)

Low Channel – 5510 MHz, 802 11n MCS0 13.5, Spectral Density: -14.40 dBm



Mid Channel – 5610 MHz, 802 11n MCS0 13.5, Spectral Density: -15.75 dBm



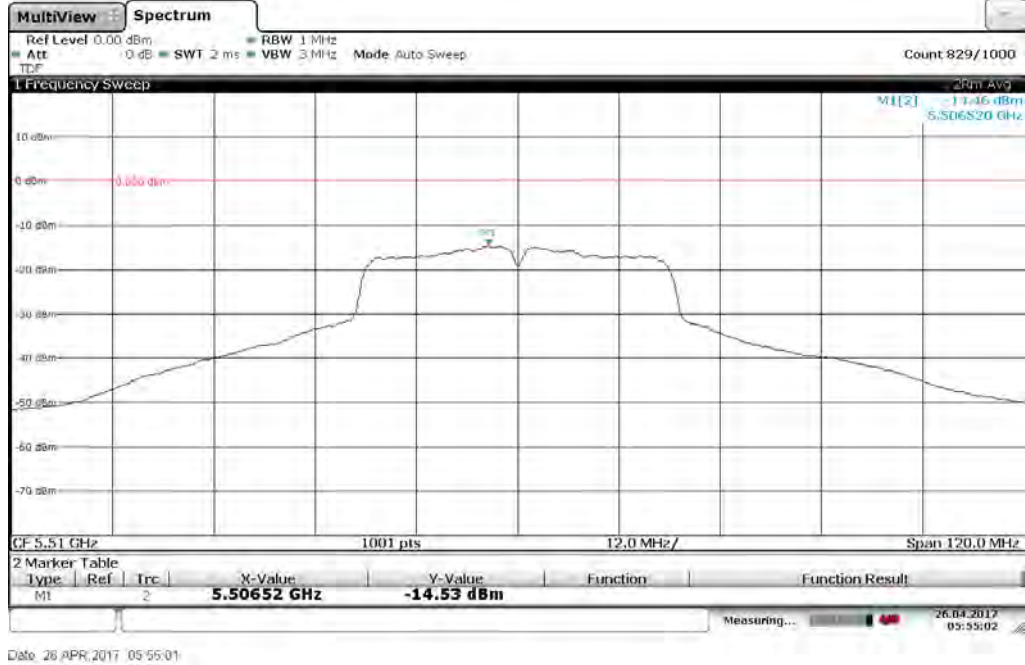
Date: 26 APR, 2017 06:48:27

High Channel – 5710 MHz, 802 11n MCS0 13.5, Spectral Density: -14.14 dBm



Date: 26 APR, 2017 08:26:52

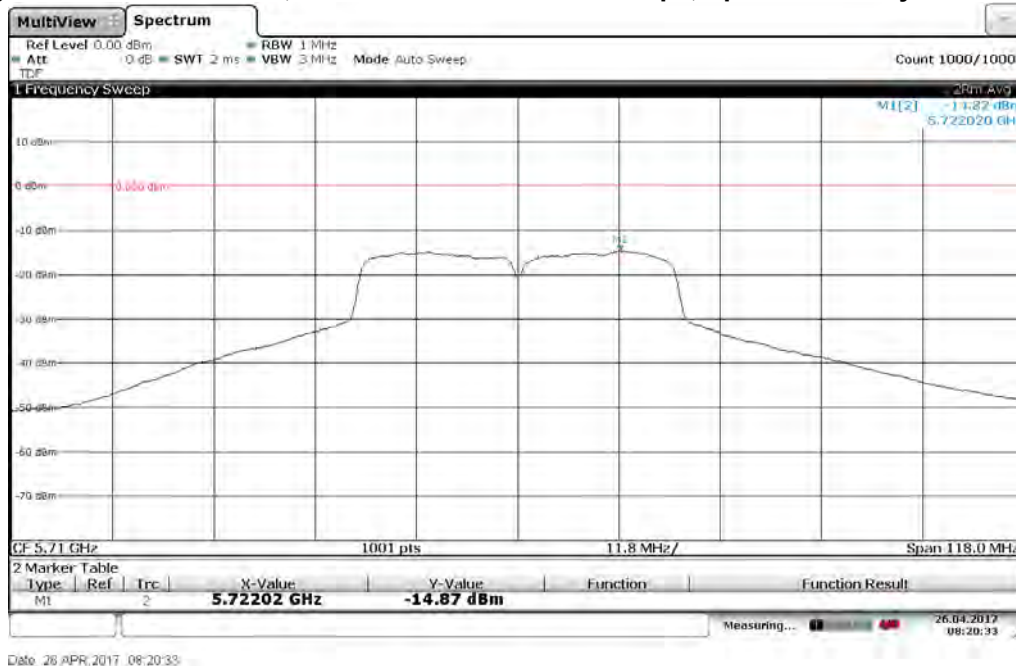
Low Channel – 5510 MHz, 802 11n MCS0 MM SG 15 Mbps, Spectral Density: -14.53 dBm



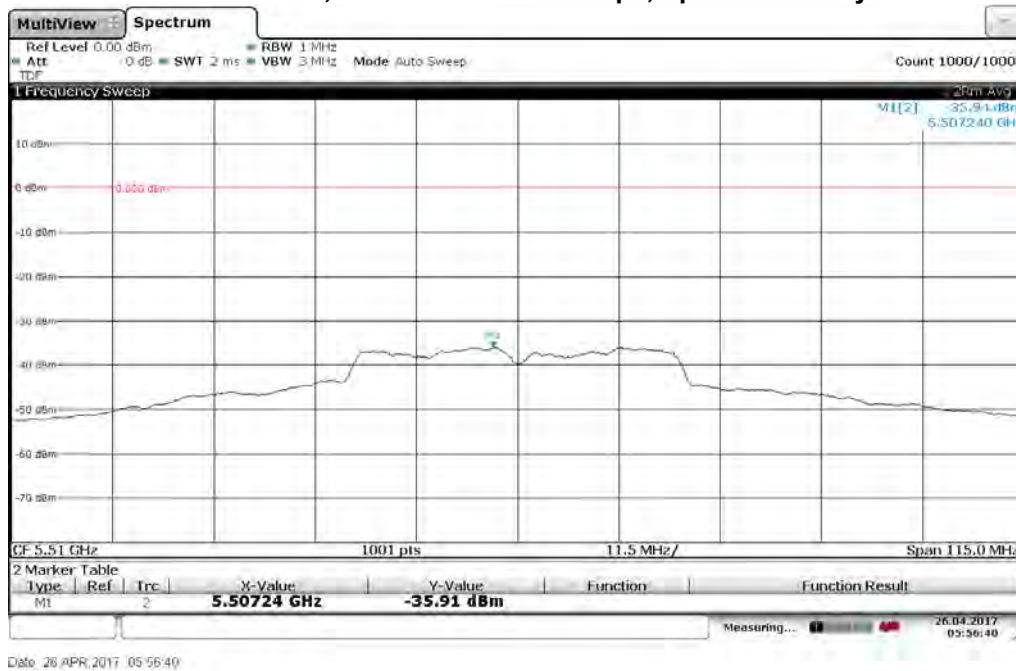
Mid Channel – 5610 MHz, 802 11n MCS0 MM SG 15 Mbps, Spectral Density: -15.70 dBm



High Channel – 5710 MHz, 802 11n MCS0 MM SG 15 Mbps, Spectral Density: -14.87 dBm



Low Channel – 5510 MHz, 802 11n MCS7 135 Mbps, Spectral Density: -35.91 dBm

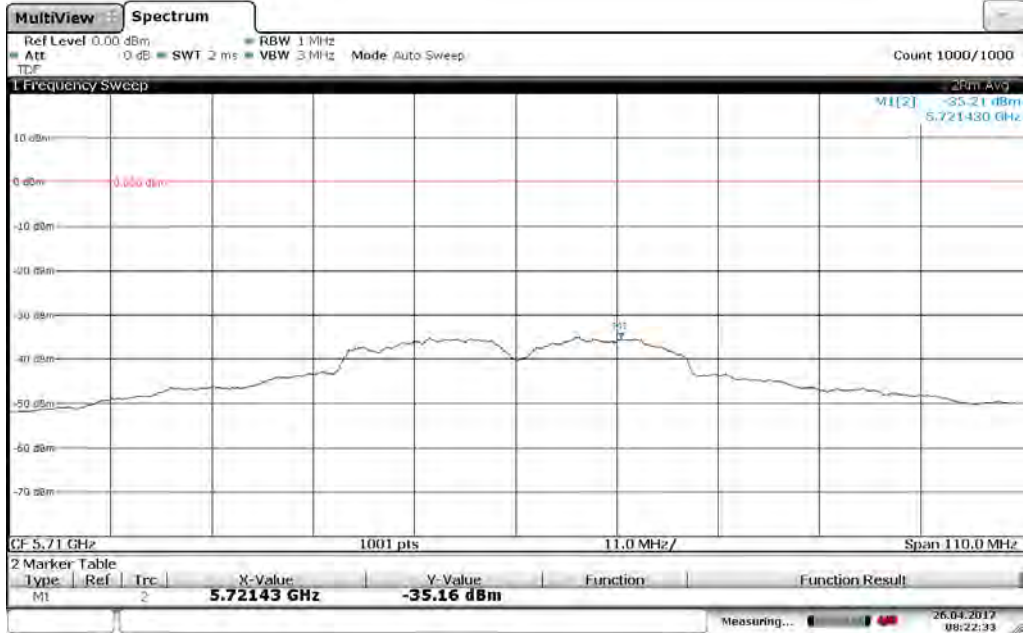


Mid Channel – 5610MHz, 802 11n MCS7 135 Mbps, Spectral Density: -36.54 dBm



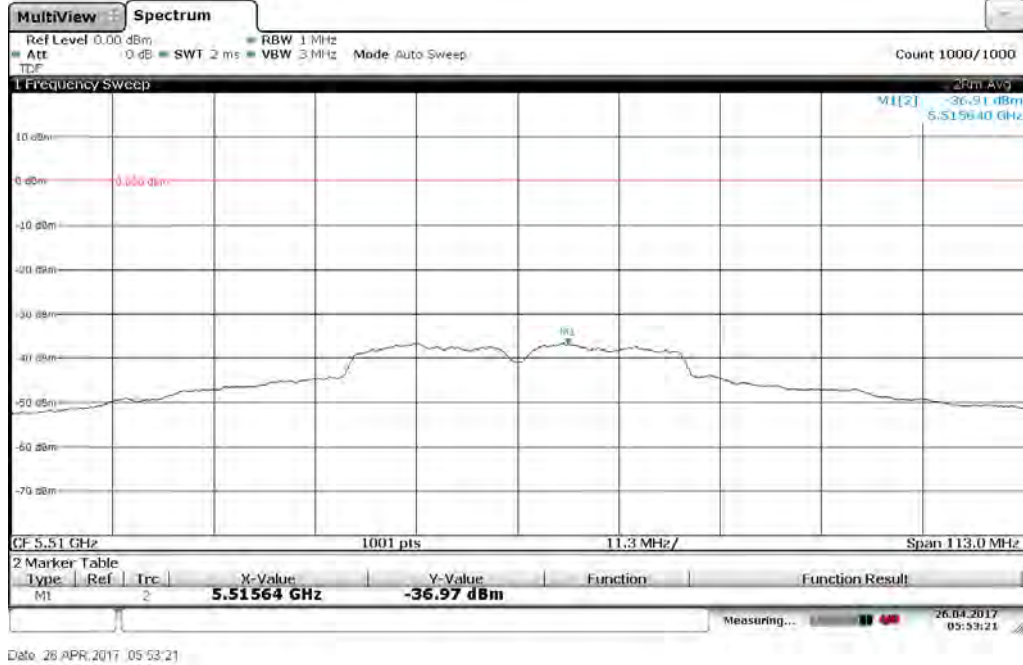
Date: 26 APR 2017 06:47:08

High Channel – 5710 MHz, 802 11n MCS7 135 Mbps, Spectral Density: -35.16 dBm

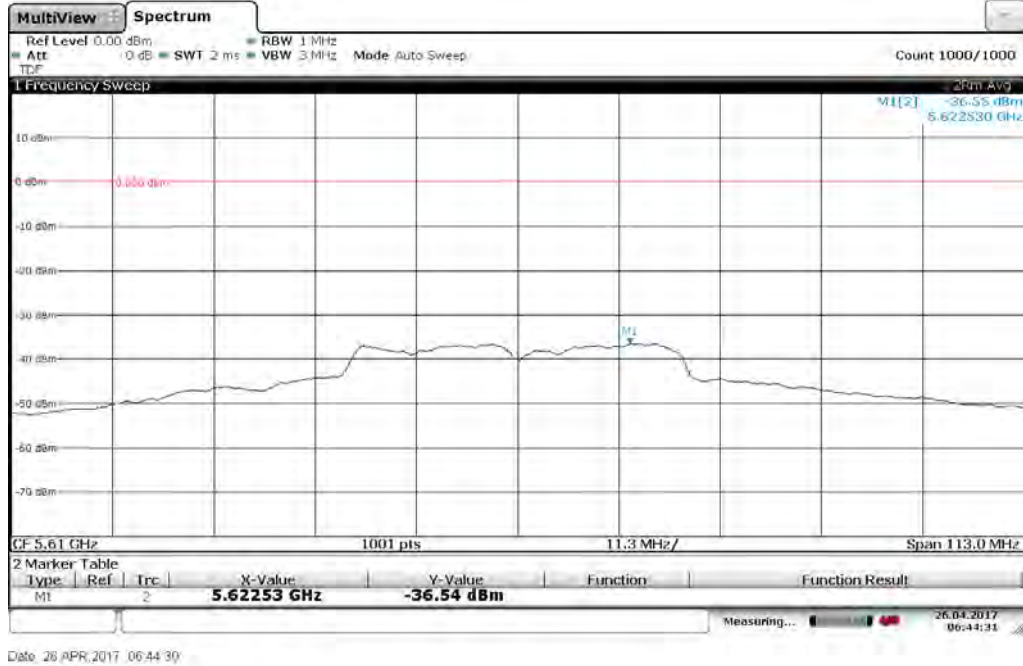


Date: 26 APR 2017 08:22:33

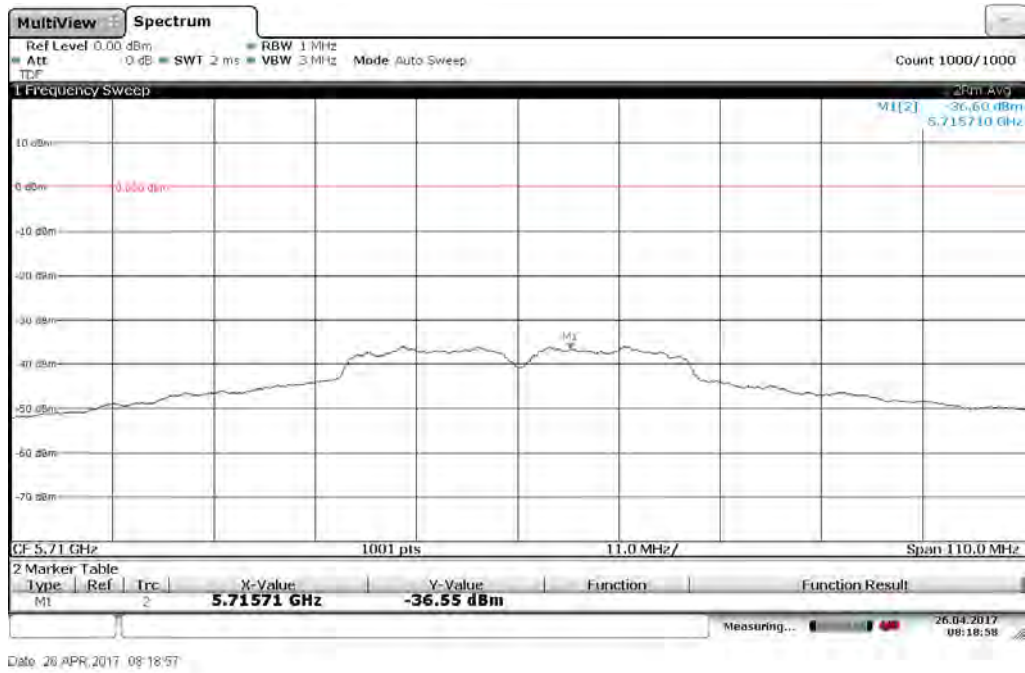
Low Channel – 5510 MHz, 802 11n MCS7 MM SG 150 Mbps, Spectral Density: -36.97 dBm



Mid Channel – 5610 MHz, 802 11n MCS7 MM SG 150 Mbps, Spectral Density: -36.54 dBm

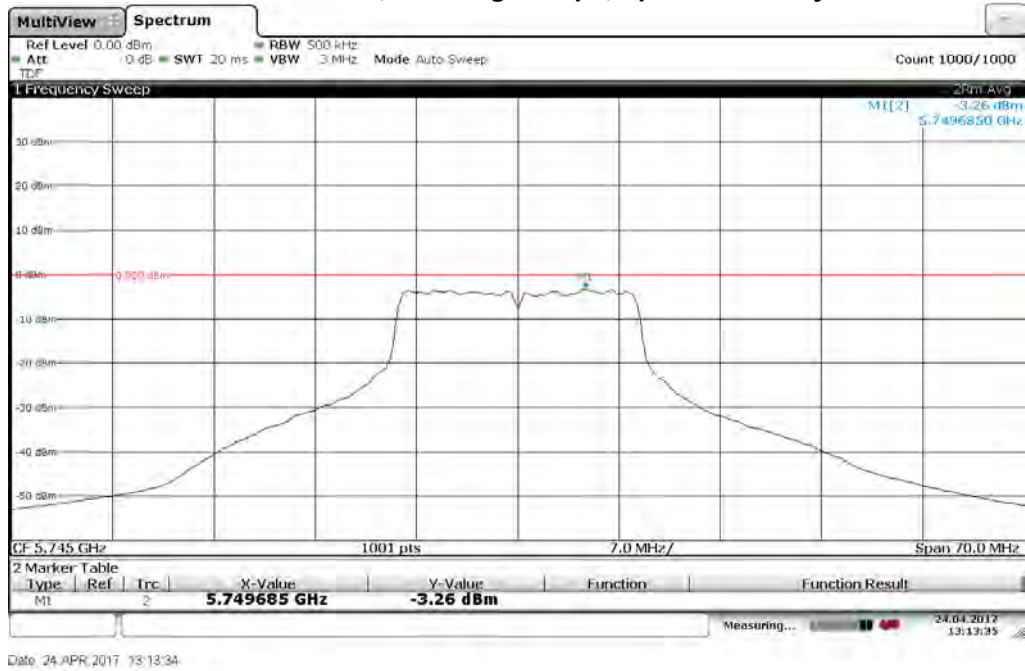


High Channel – 5710 MHz, 802 11n MCS7 MM SG 150 Mbps, Spectral Density: -36.55 dBm

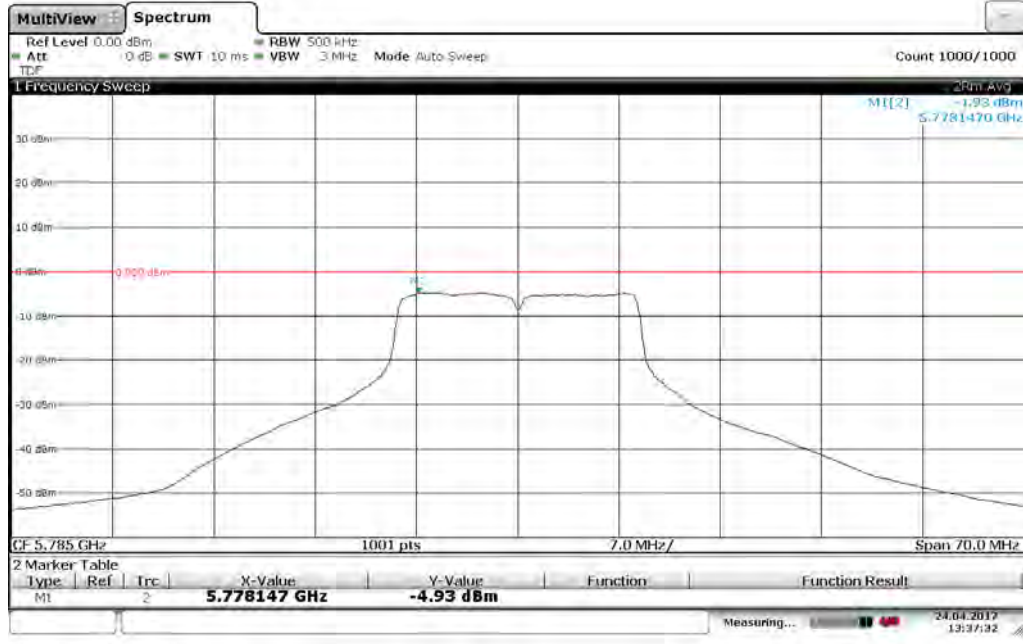


Band 4 (20 MHz Bandwidth)

Low Channel – 5745 MHz, 802 11ag 6 Mbps, Spectral Density: -3.26 dBm



Mid Channel – 5785 MHz, 802 11ag 6 Mbps, Spectral Density: -4.93 dBm



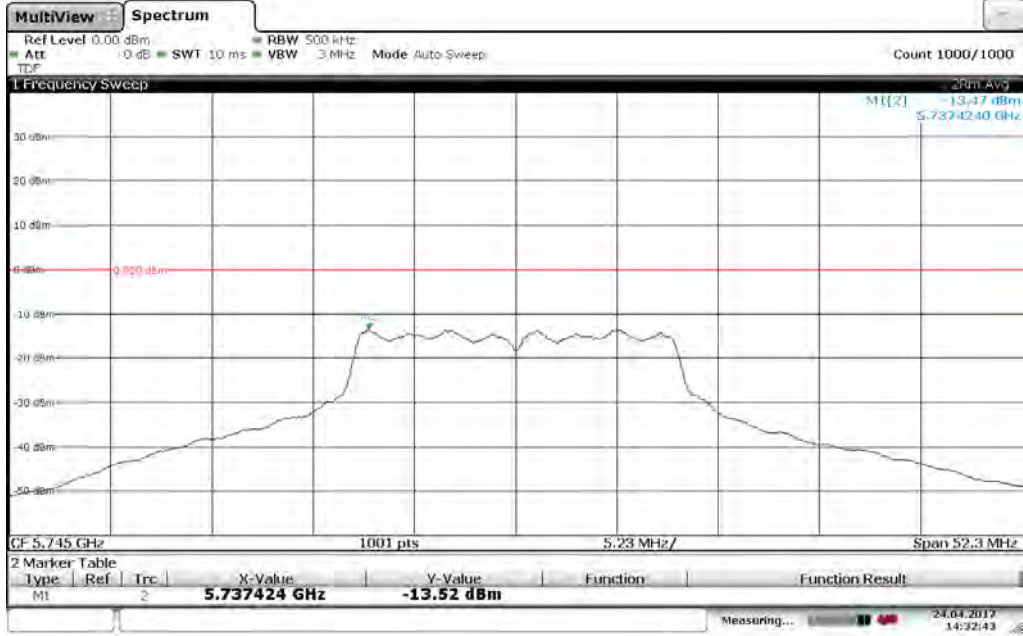
Date: 24 APR 2017 13:37:31

High Channel – 5825 MHz, 802 11ag 6 Mbps, Spectral Density: -5.53 dBm



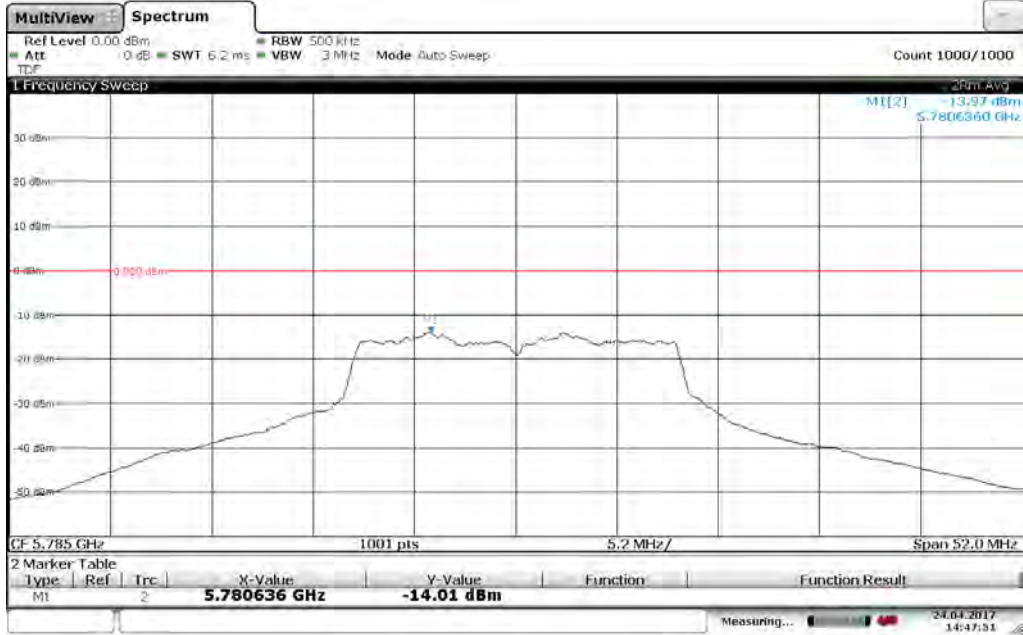
Date: 24 APR 2017 14:02:58

Low Channel – 5745 MHz, 802 11ag 54 Mbps, Spectral Density: -13.52 dBm



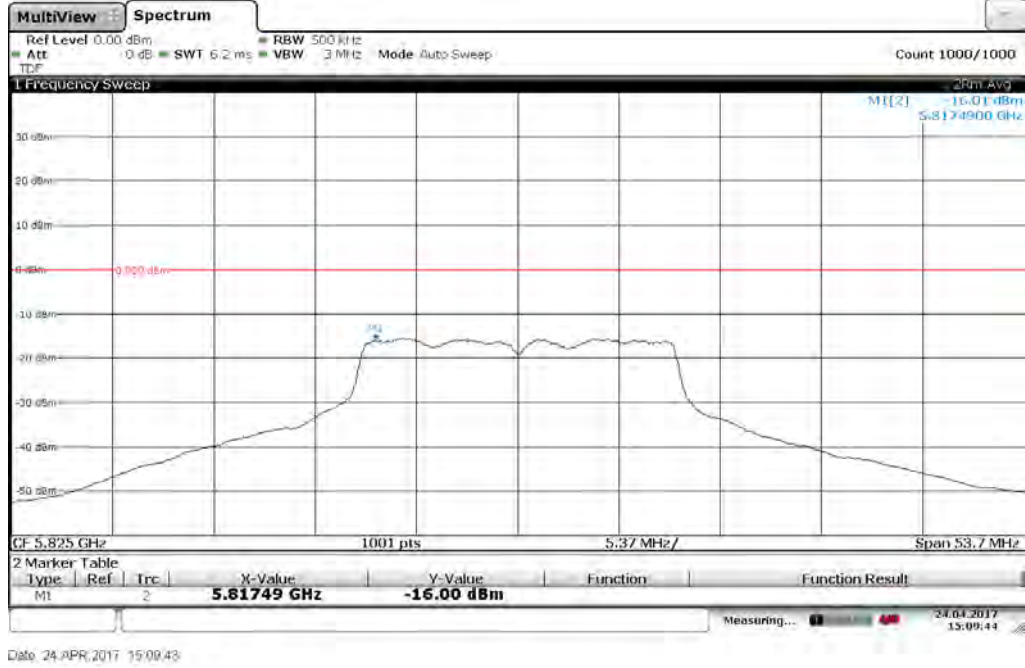
Date: 24 APR 2017 14:32:43

Mid Channel – 5785 MHz, 802 11ag 54 Mbps, Spectral Density: -14.01 dBm

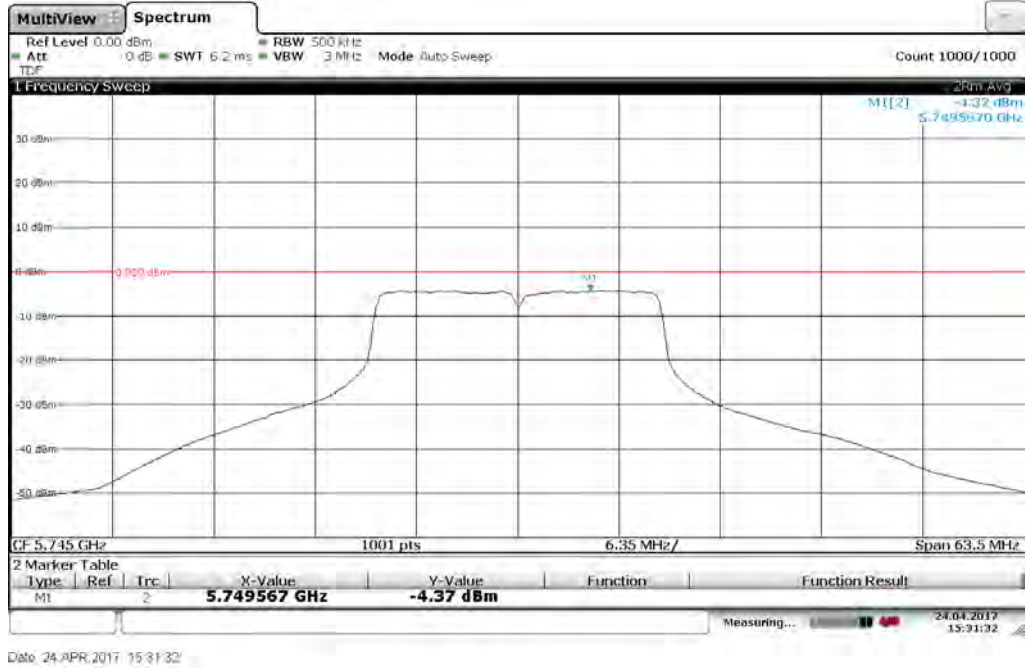


Date: 24 APR 2017 14:47:50

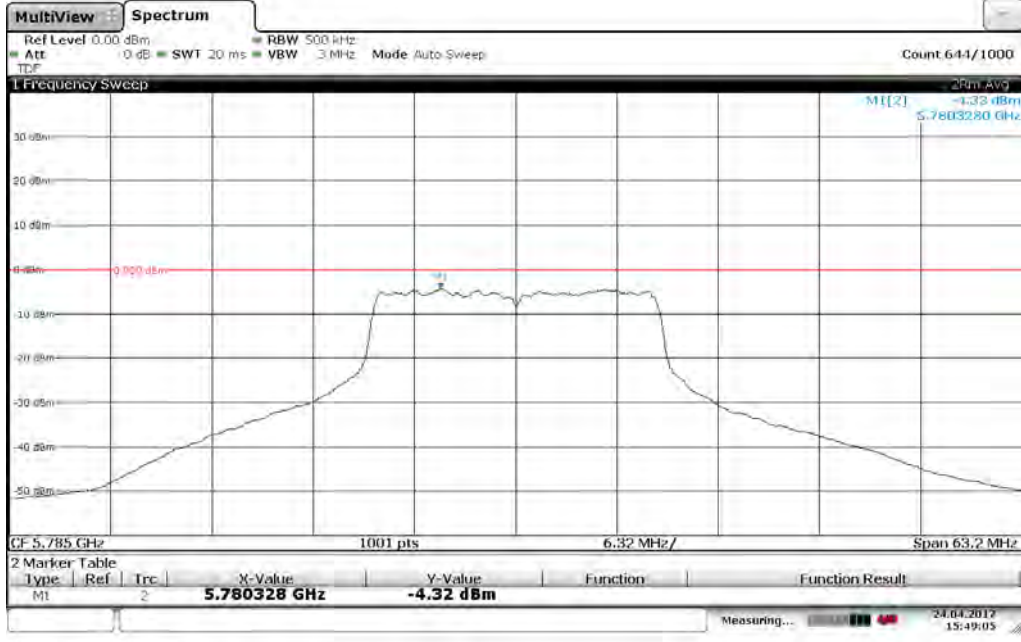
High Channel – 5825 MHz, 802 11ag 54 Mbps, Spectral Density: -16.00 dBm



Low Channel – 5745 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -4.37 dBm

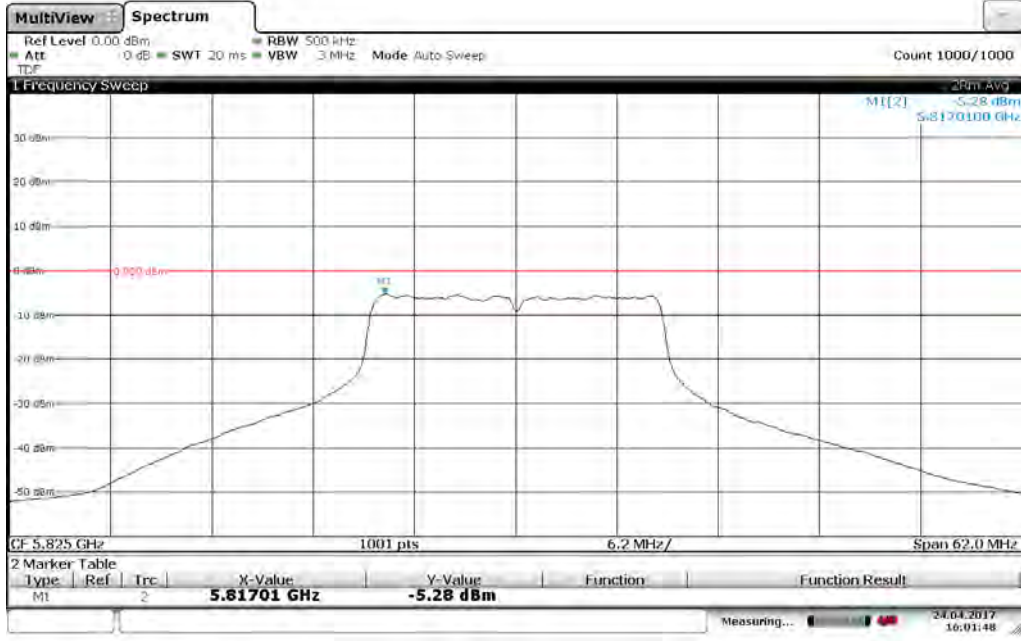


Mid Channel – 5785 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -4.32 dBm



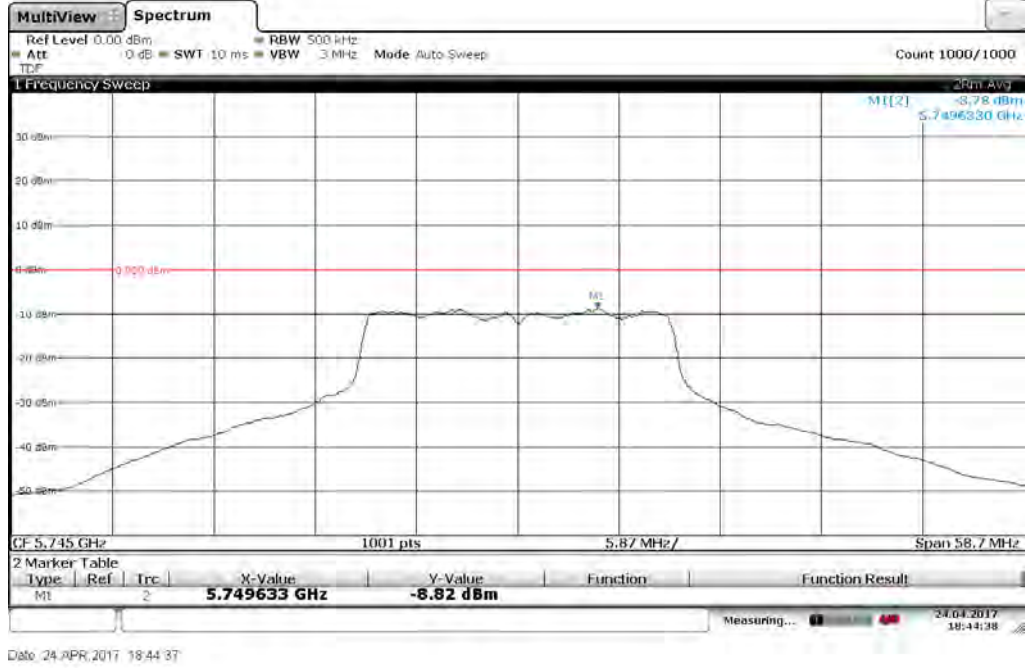
Date: 24 APR 2017 15:49:03

High Channel – 5825 MHz, 802 11n MCS0 6.5 Mbps, Spectral Density: -5.28 dBm

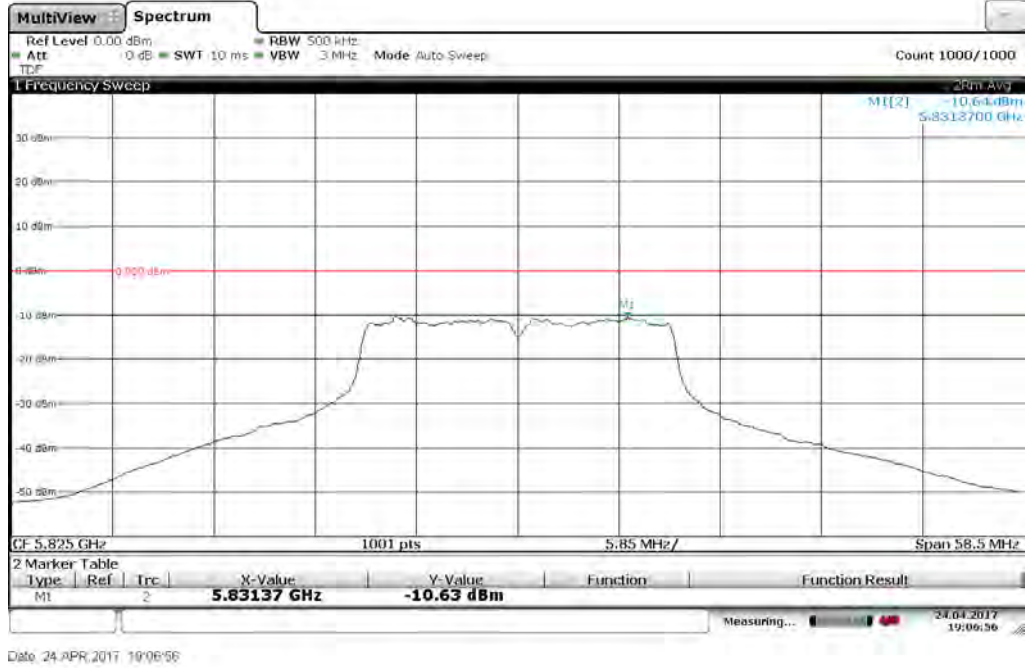


Date: 24 APR 2017 16:01:47

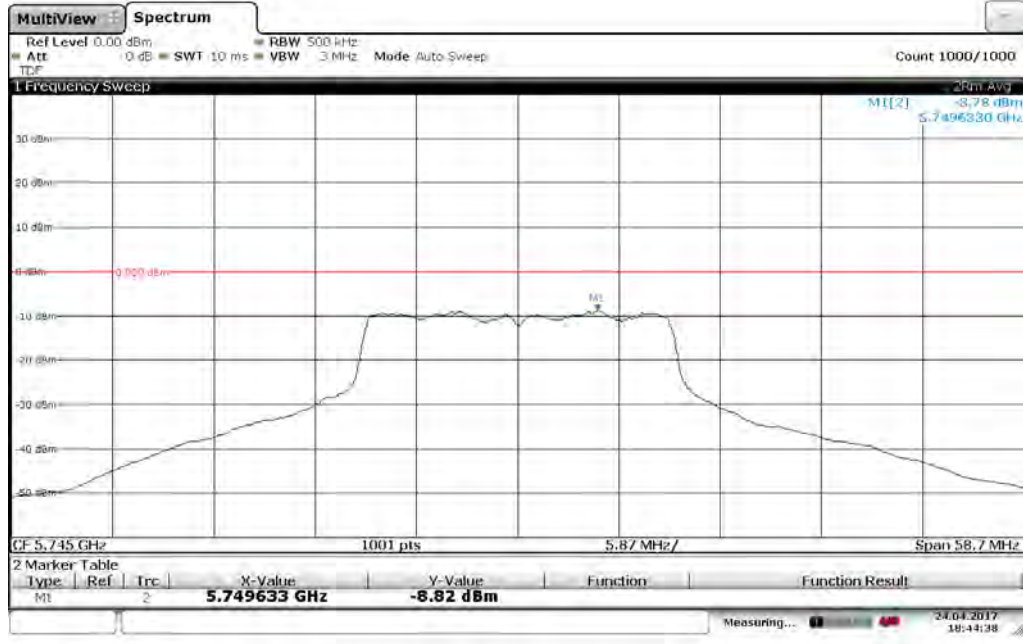
Low Channel – 5745 MHz, 802 11n MCS0 MM SG 7.2 Mbps, Spectral Density: -8.82 dBm



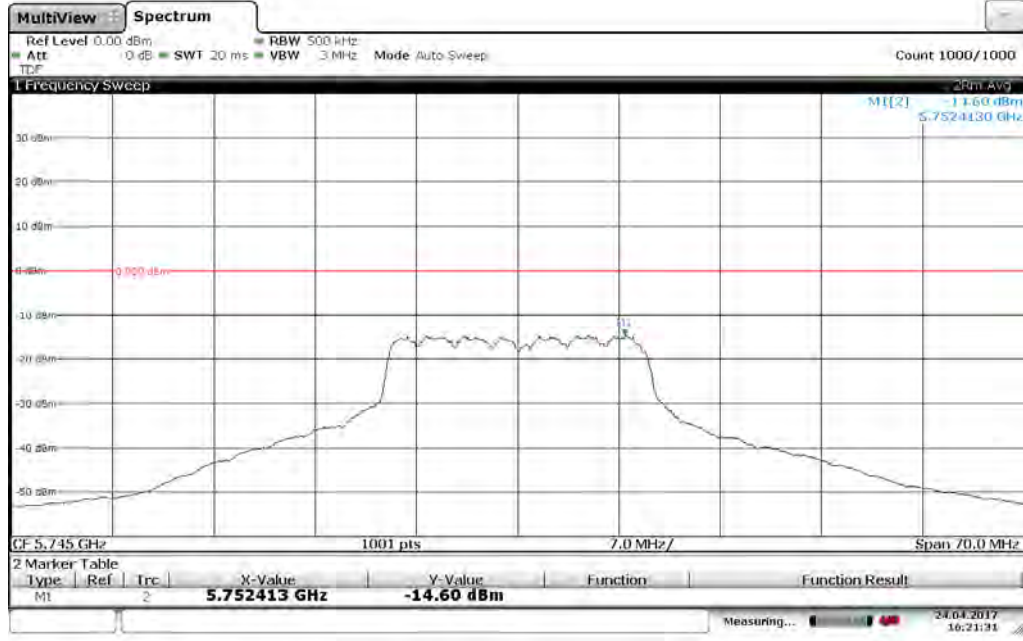
Mid Channel – 5825 MHz, 802 11n MCS0 MM SG 7.2 Mbps, Spectral Density: -10.63 dBm



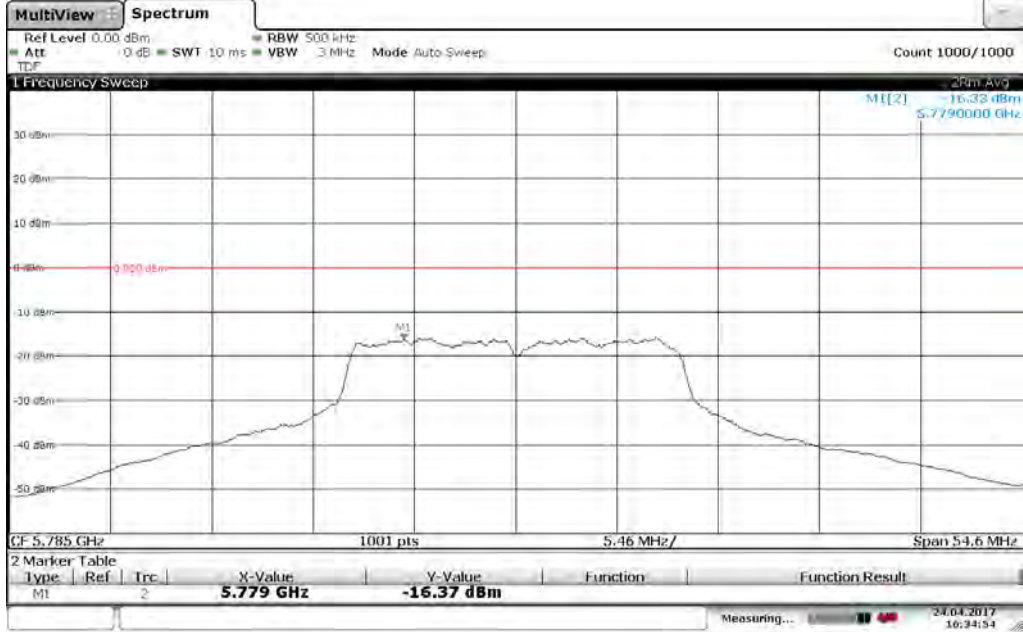
High Channel – 5745 MHz, 802 11n MCS0 MM SG 7.2 Mbps, Spectral Density: -8.82 dBm



Low Channel – 5745 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -14.60 dBm

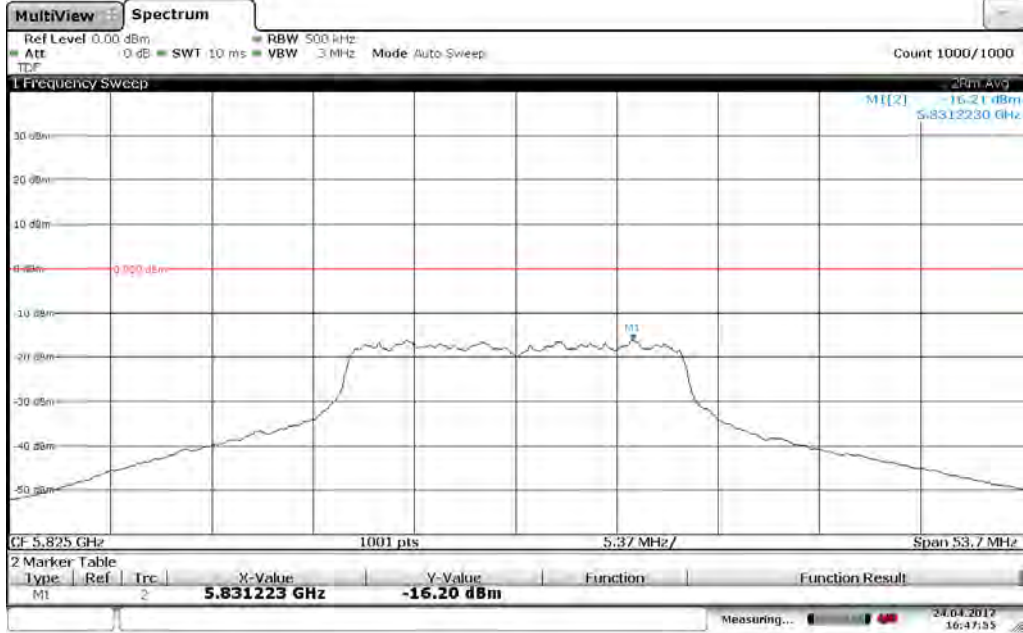


Mid Channel – 5785 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -16.37 dBm



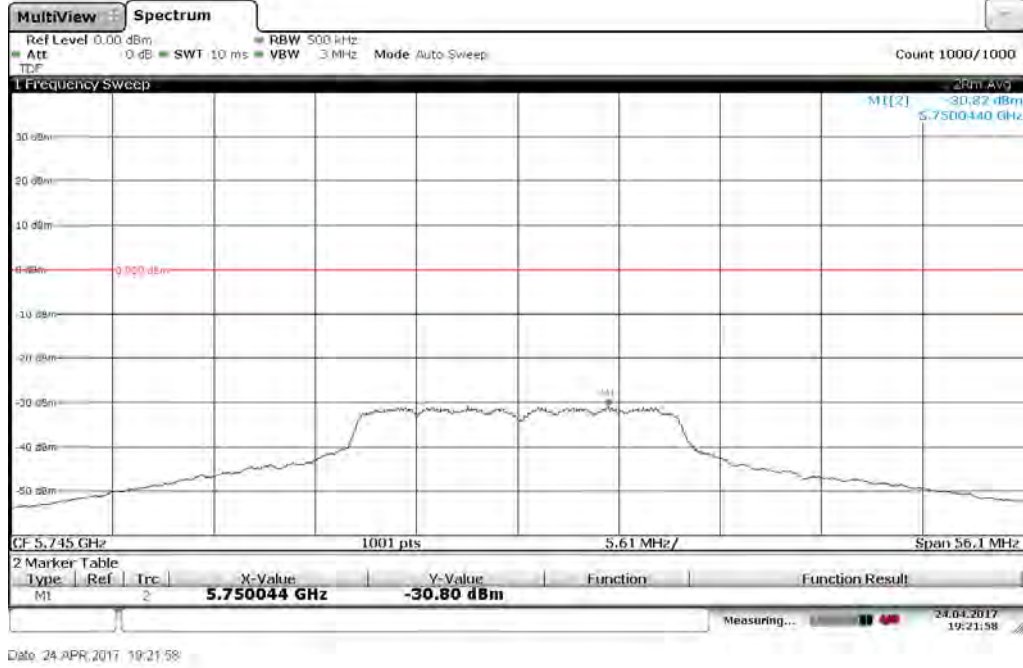
Date: 24 APR 2017 16:34:54

High Channel – 5825 MHz, 802 11n MCS7 65 Mbps, Spectral Density: -16.20 dBm

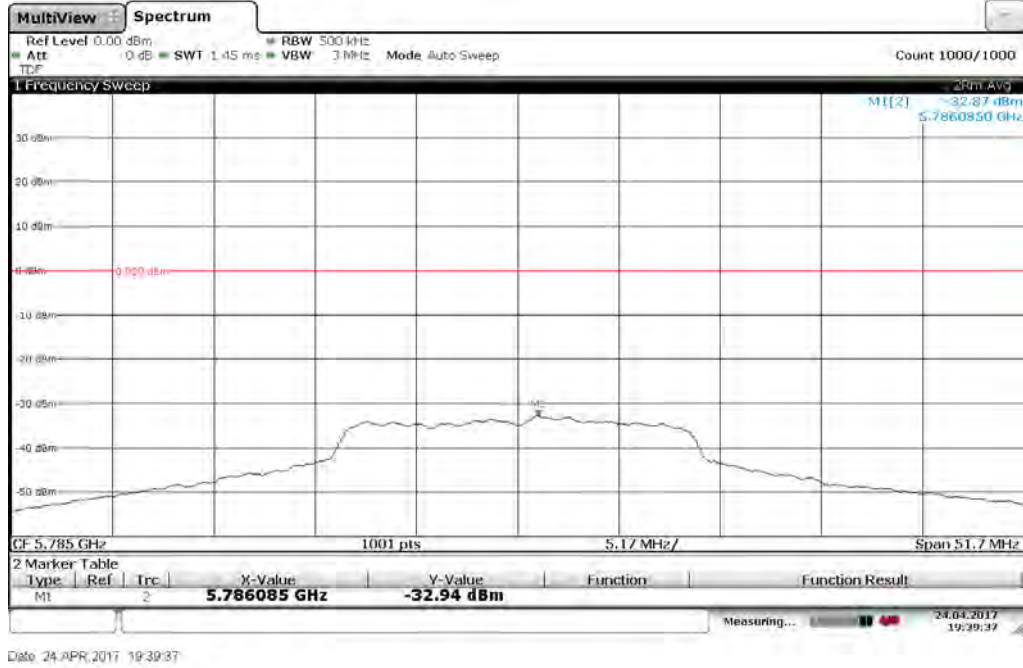


Date: 24 APR 2017 16:47:54

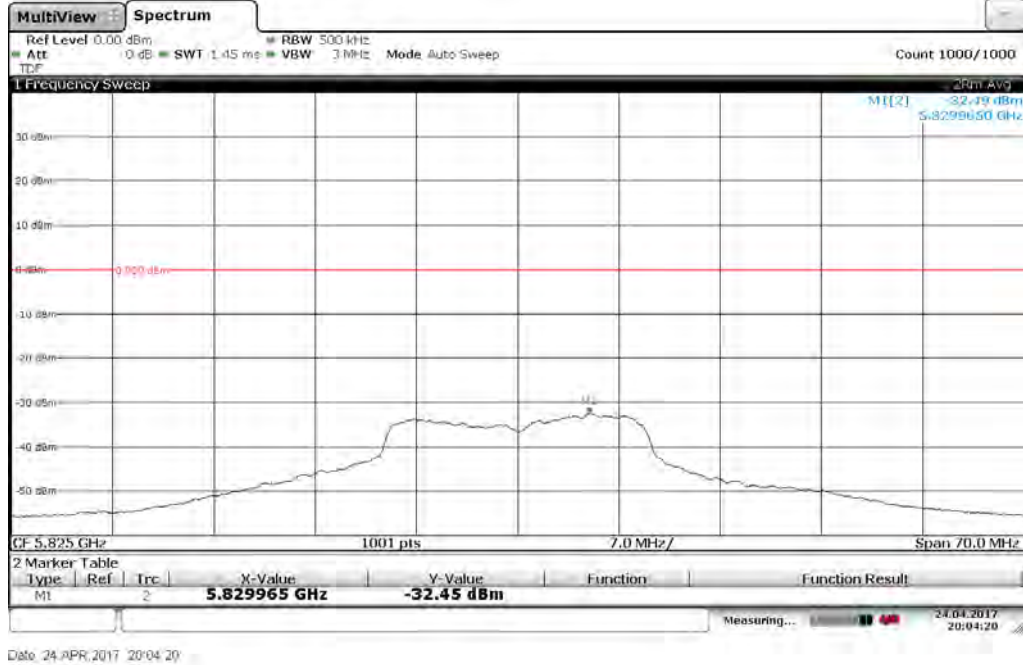
Low Channel – 5745 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Spectral Density:-30.80 dBm



Mid Channel – 5785 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Spectral Density: -32.94 dBm

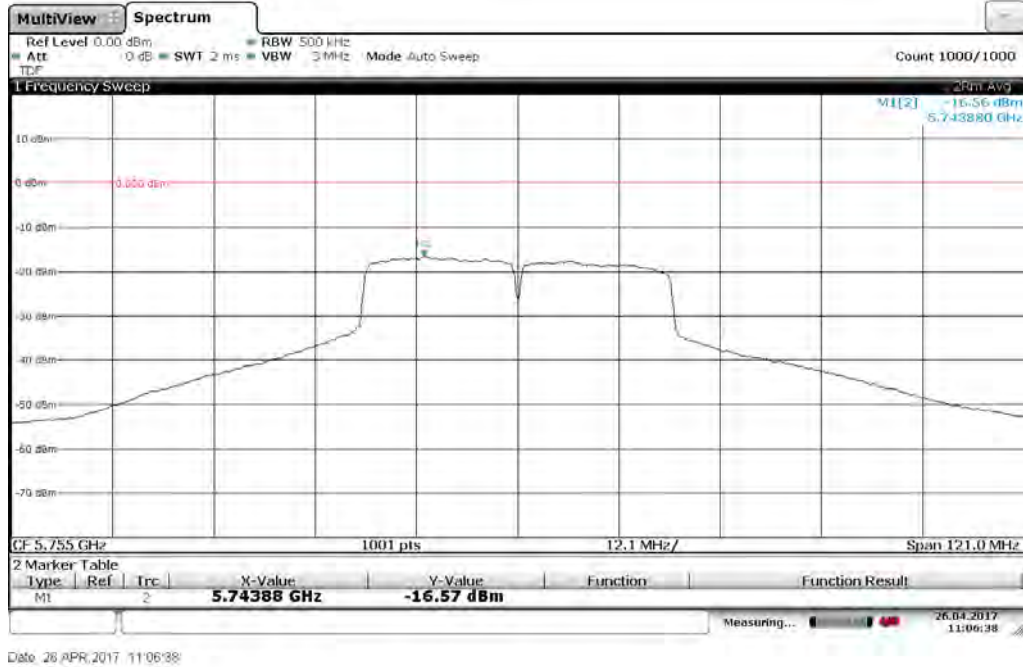


High Channel – 5825 MHz, 802 11n MCS7 MM SG 72.2 Mbps, Spectral Density: -32.45 dBm

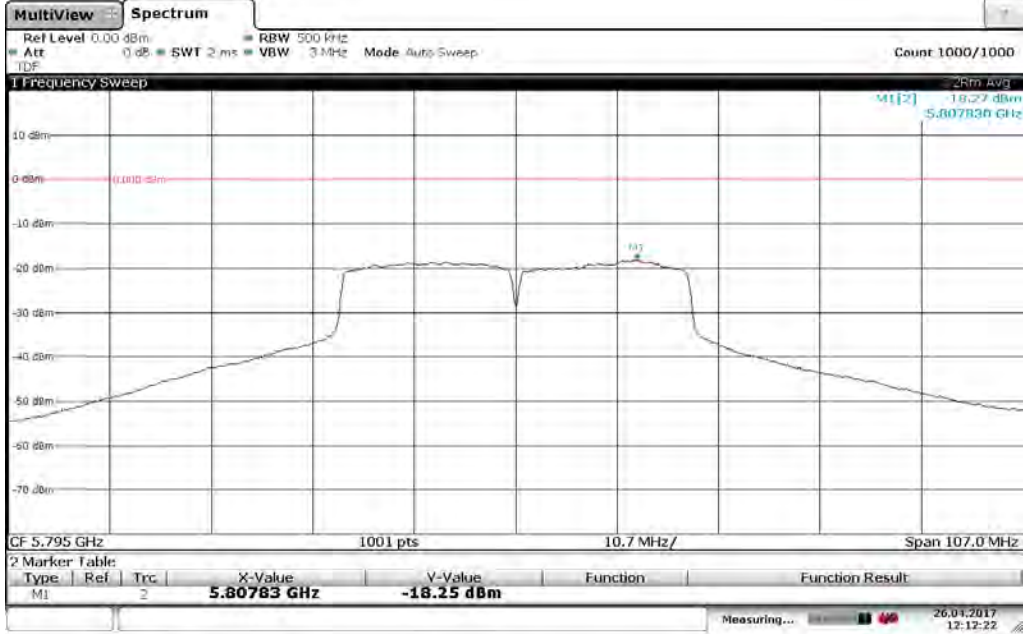


Band 4 (40 MHz Bandwidth)

Low Channel – 5755 MHz, 802 11n MSC0 13.5Mbps, Spectral Density: -16.57 dBm

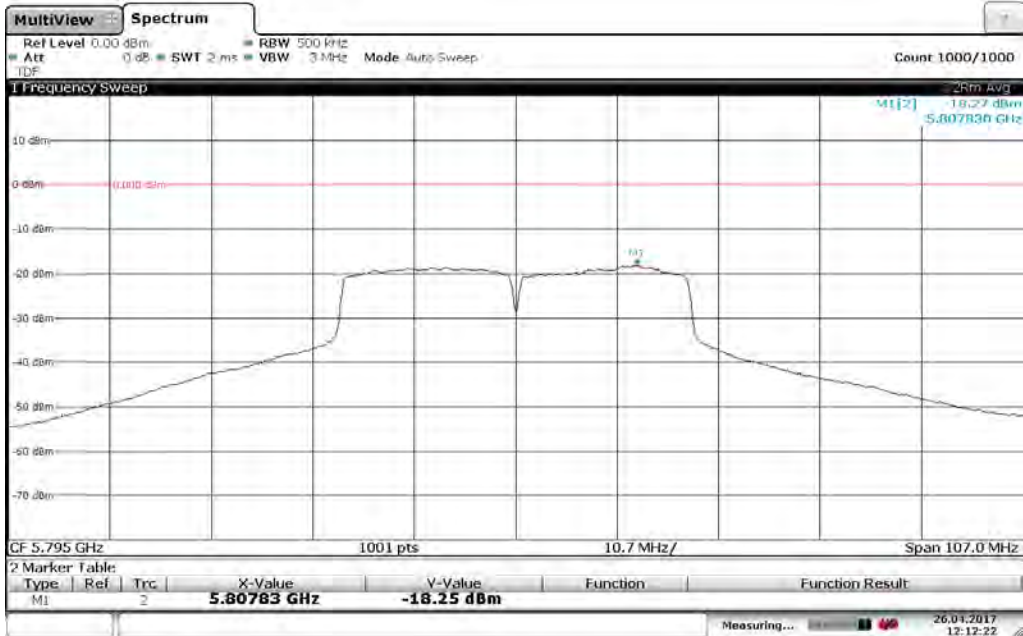


Mid Channel – 5795 MHz, 802 11n MSC0 13.5Mbps, Spectral Density: -18.25 dBm



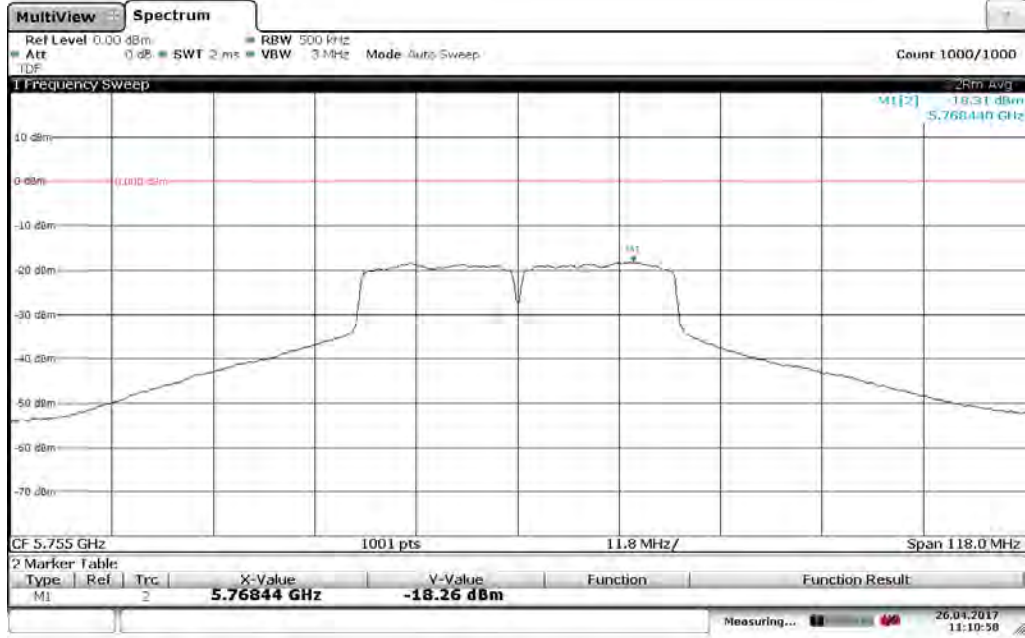
Date: 26 APR 2017 12:12:22

High Channel – 5795 MHz, 802 11n MSC0 13.5Mbps, Spectral Density: -18.25 dBm



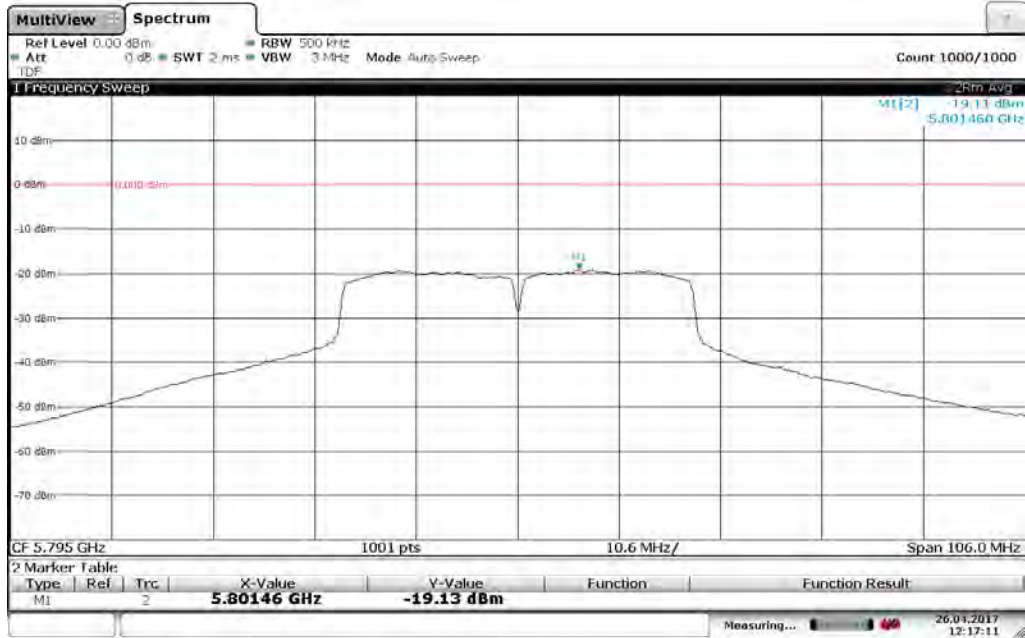
Date: 26 APR 2017 12:12:22

Low Channel – 5755 MHz, 802 11n MSC0 MM SG 15Mbps, Spectral Density: -18.26 dBm



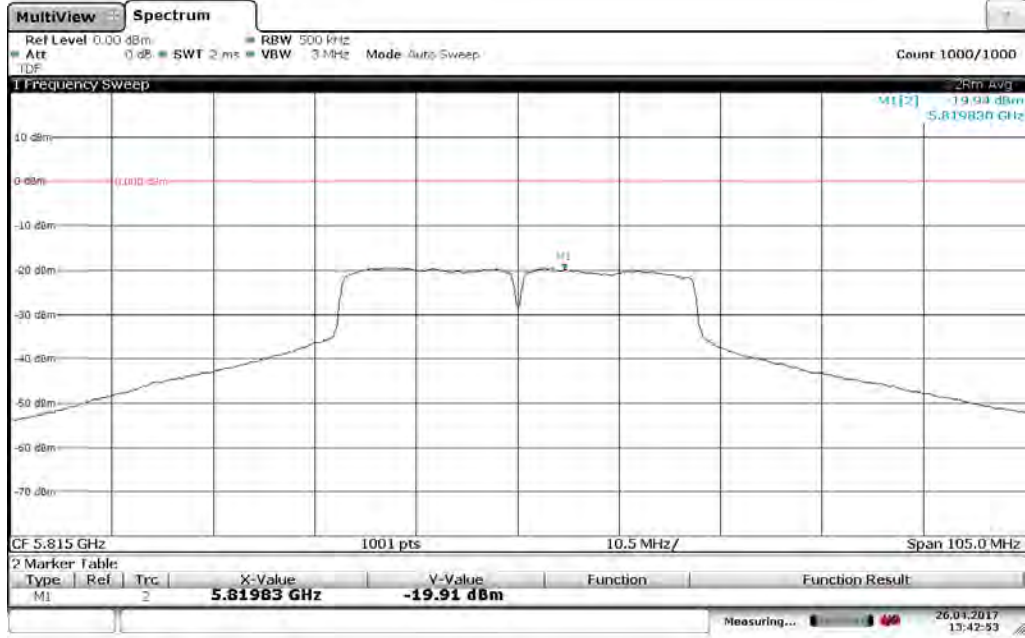
Date: 26 APR 2017 11:10:51

Mid Channel – 5795 MHz, 802 11n MSC0 MM SG 15Mbps, Spectral Density: -19.13 dBm



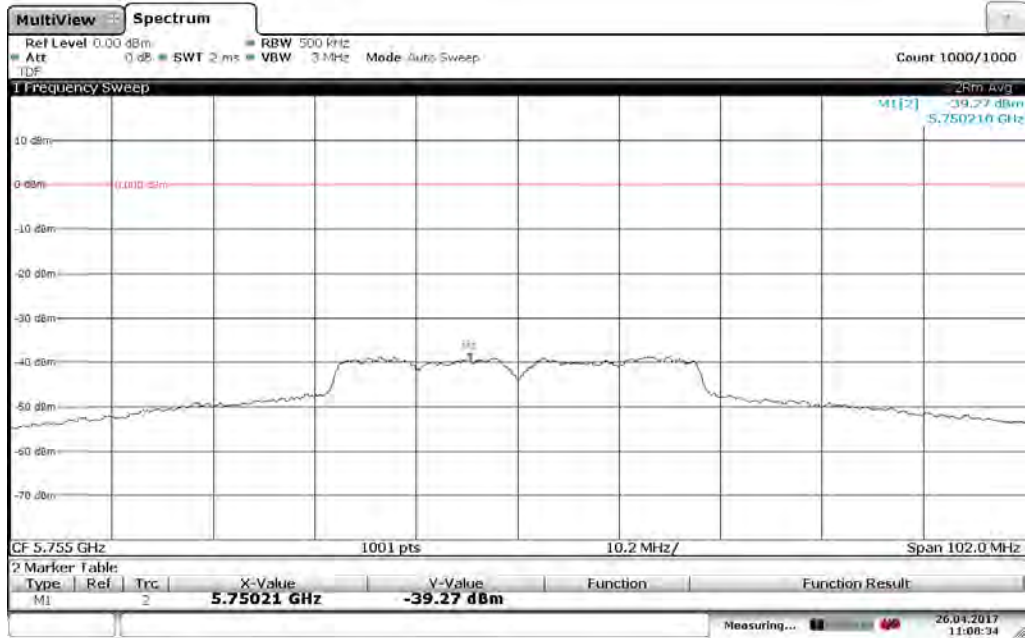
Date: 26 APR 2017 12:17:11

High Channel – 5815 MHz, 802 11n MSC0 MM SG 15Mbps, Spectral Density: -19.91dBm



Date: 26 APR 2017 13:42:53

Low Channel – 5755 MHz, 802 11n MSC7 135Mbps, Spectral Density: -39.27 dBm



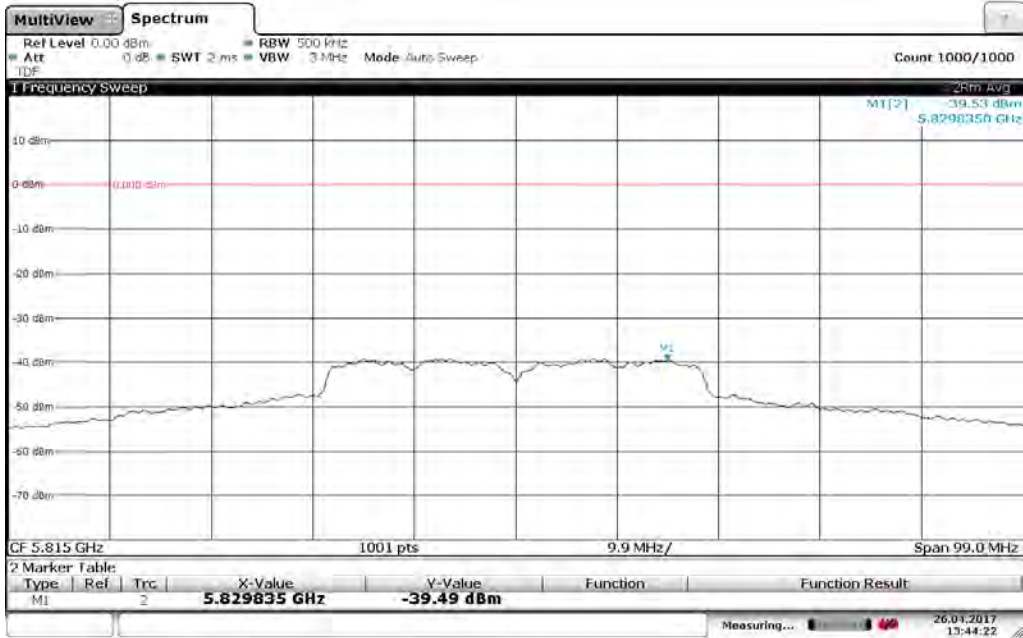
Date: 26 APR 2017 11:08:34

Mid Channel – 5795MHz, 802 11n MSC7 135Mbps, Spectral Density: -39.02 dBm



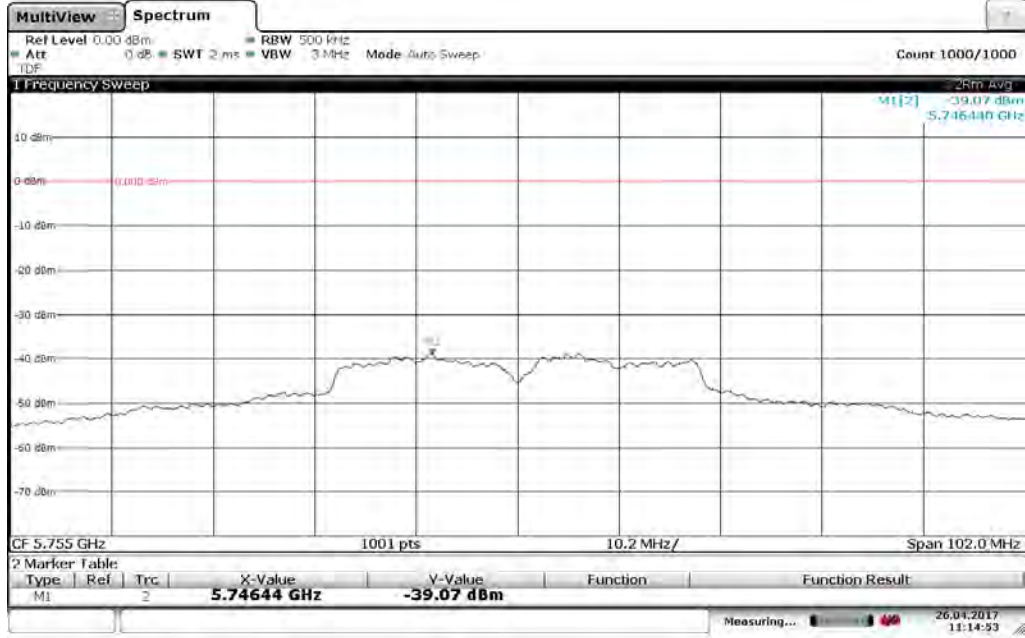
Date: 26 APR 2017 12:15:50

High Channel – 5815 MHz, 802 11n MSC7 135Mbps, Spectral Density: -39.49 dBm



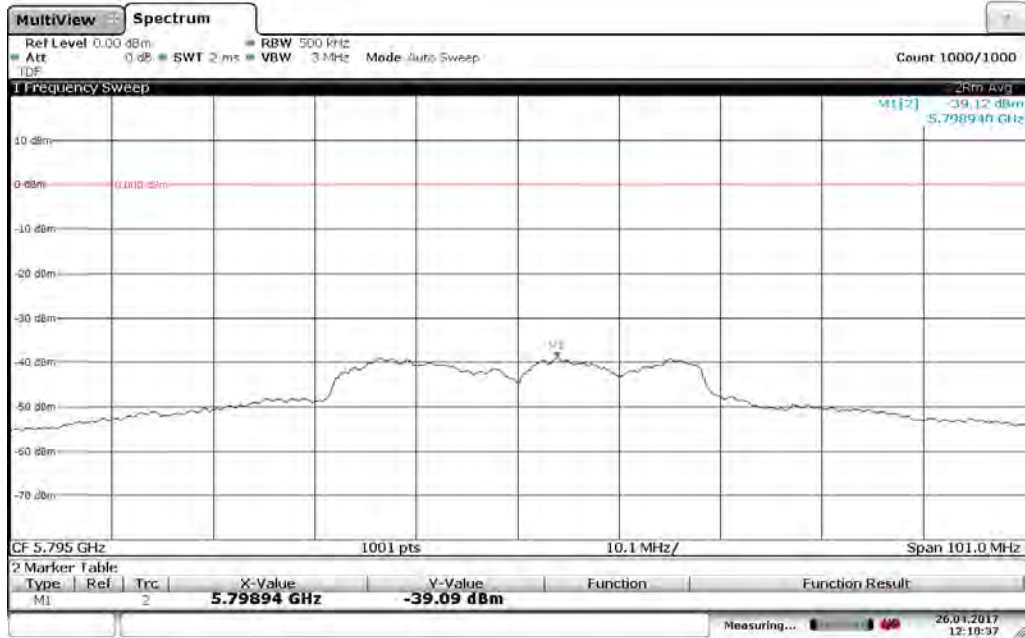
Date: 26 APR 2017 13:44:21

Low Channel – 5755 MHz, 802 11n MSC7 MM SG 150Mbps, Spectral Density: -39.07 dBm



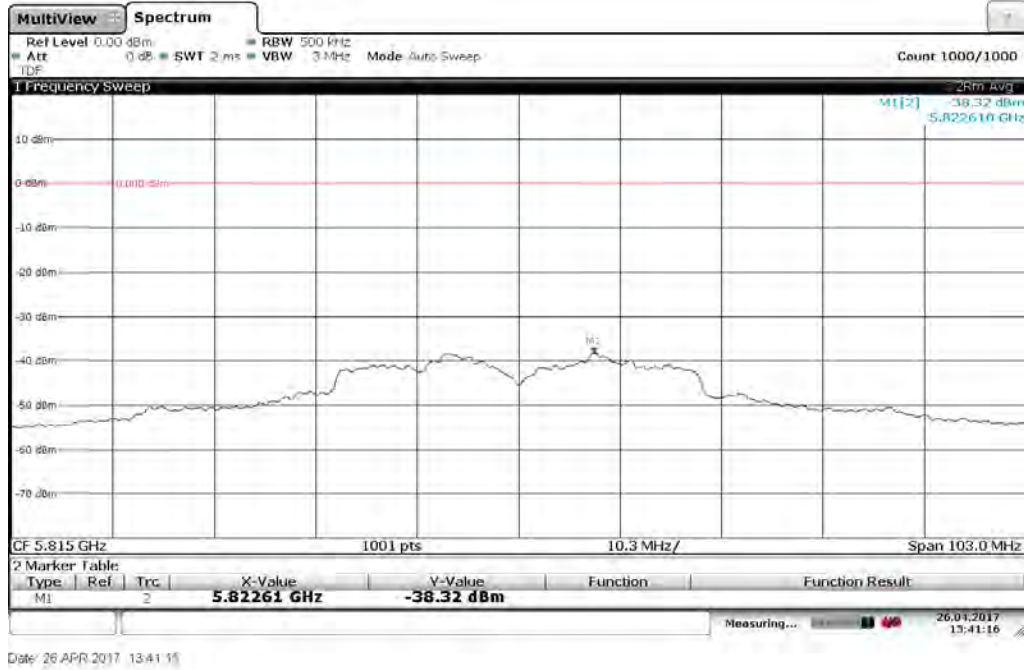
Date: 26 APR 2017 11:14:53

Mid Channel – 5795 MHz, 802 11n MSC7 MM SG 150Mbps, Spectral Density: -39.09 dBm



Date: 26 APR 2017 12:10:37

High Channel – 5815 MHz, 802 11n MSC7 MM SG 150Mbps, Spectral Density: -38.32 dBm



		Test Date:	04/23/2017
			04/24/2017
			04/25/2017
			04/26/2017
Test Personnel:	Naga Suryadevara <i>NS</i>		
Supervising/Reviewing	Kouma Sinn <i>KPS</i>		
Engineer:			
(Where Applicable)	Vathana Ven <i>VSV</i>		
Product Standard:	FCC Part 15 Subpart C		
	FCC Part 15 Subpart E		
	RSS 247	Limit Applied:	As specified in Section 7.3
Input Voltage:	120VAC 60Hz		
Pretest Verification w/ Ambient Signals or BB Source:	N/A	Ambient Temperature:	22, 21, 23, 22 °C
		Relative Humidity:	34, 29, 34, 28 %
		Atmospheric Pressure:	1002, 1004, 1008, 1005 mbars

Deviations, Additions, or Exclusions: None