

**FCC 47 CFR PART 15 SUBPART E &
INDUSTRY CANADA RSS-247**

TEST REPORT

For

Tablet Computer

Model: A6003

Trade Name: acer

Issued to

Acer Incorporated

8F, 88, Sec 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan, R.O.C

Issued by

Compliance Certification Services Inc.

**No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)**

<http://www.ccsrf.com>

service@ccsrf.com

Issued Date: June 2, 2016



**Testing Laboratory
1309**

Note: This report shall not be reproduced except in full, without the written approval of Compliance Certification Services Inc. This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document.

Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|--------------|---------------|-------------|-------------|
| 00 | June 2, 2016 | Initial Issue | ALL | Kelly Cheng |

TABLE OF CONTENTS

| | |
|--|------------|
| 1. TEST RESULT CERTIFICATION..... | 4 |
| 2. EUT DESCRIPTION..... | 5 |
| 3. TEST METHODOLOGY..... | 7 |
| 3.1 EUT CONFIGURATION | 7 |
| 3.2 EUT EXERCISE | 7 |
| 3.3 GENERAL TEST PROCEDURES | 7 |
| 3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS..... | 8 |
| 3.5 DESCRIPTION OF TEST MODES | 9 |
| 4. INSTRUMENT CALIBRATION..... | 11 |
| 4.1 MEASURING INSTRUMENT CALIBRATION | 11 |
| 4.2 MEASUREMENT EQUIPMENT USED..... | 11 |
| 4.3 MEASUREMENT UNCERTAINTY | 12 |
| 5. FACILITIES AND ACCREDITATIONS..... | 13 |
| 5.1 FACILITIES..... | 13 |
| 5.2 EQUIPMENT..... | 13 |
| 5.3 LABORATORY ACCREDITATIONS AND LISTING | 13 |
| 5.4 TABLE OF ACCREDITATIONS AND LISTINGS..... | 14 |
| 6. SETUP OF EQUIPMENT UNDER TEST..... | 15 |
| 6.1 SETUP CONFIGURATION OF EUT | 15 |
| 6.2 SUPPORT EQUIPMENT | 15 |
| 7. FCC PART 15 REQUIREMENTS & RSS-247 REQUIREMENTS..... | 16 |
| 7.1 99% BANDWIDTH | 16 |
| 7.2 26 DB EMISSION BANDWIDTH..... | 36 |
| 7.3 MAXIMUM CONDUCTED OUTPUT POWER..... | 56 |
| 7.4 BAND EDGES MEASUREMENT | 60 |
| 7.5 PEAK POWER SPECTRAL DENSITY..... | 112 |
| 7.6 RADIATED UNDESIRABLE EMISSION | 132 |
| 7.7 POWERLINE CONDUCTED EMISSIONS..... | 188 |
| 7.8 FREQUENCY STABILITY | 191 |
| 7.9 DYNAMIC FREQUENCY SELECTION..... | 193 |
| APPENDIX I PHOTOGRAPHS OF TEST SETUP..... | 206 |

1. TEST RESULT CERTIFICATION

Applicant: Acer Incorporated
8F, 88, Sec 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan,
R.O.C

Manufacturer: Acer Incorporated
8F, 88, Sec 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan,
R.O.C

Equipment Under Test: Tablet Computer

Model Number: A6003

Trade Name: acer

Date of Test: May 30 ~ June 3, 2016

| APPLICABLE STANDARDS | |
|---|-------------------------|
| STANDARD | TEST RESULT |
| FCC 47 CFR Part 15 Subpart E & Industry Canada RSS-247 Issue 1 | No non-compliance noted |

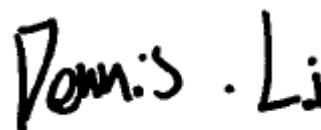
We hereby certify that:

Compliance Certification Services Inc. tested the above equipment. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407 and Industry Canada RSS-247 Issue 1.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Tested by:

Miller Lee
Manager
Compliance Certification Services Inc.

Dennis Li
Engineer
Compliance Certification Services Inc.

2. EUT DESCRIPTION

| | | | | | | |
|---|--|--|------------------------------|------------------------------|---------------------------|-------------------------|
| Product | Tablet Computer | | | | | |
| Model Number | A6003 | | | | | |
| Trade Name | acer | | | | | |
| Received Date | May 13, 2016 | | | | | |
| Power Supply | 1.VDC from Power Adapter 2. Power from Battery 3. Powered from host device via USB | | | | | |
| Operating Frequency Range & Number of Channels | | Mode | Frequency Range (MHz) | Number of Channels | | |
| | U-NII-1 | IEEE 802.11a | 5180 ~ 5240 | 4 Channels | | |
| | | IEEE 802.11n HT 20 MHz | 5180 ~ 5240 | 4 Channels | | |
| | | IEEE 802.11n HT 40 MHz | 5190 ~ 5230 | 2 Channels | | |
| | U-NII-2A | IEEE 802.11a | 5260 ~ 5320 | 4 Channels | | |
| | | IEEE 802.11n HT 20 MHz | 5260 ~ 5320 | 4 Channels | | |
| | | IEEE 802.11n HT 40 MHz | 5270 ~ 5310 | 2 Channels | | |
| | U-NII-2C | IEEE 802.11a | 5500 ~ 5700 | 11 Channels | | |
| | | IEEE 802.11n HT 20 MHz | 5500 ~ 5700 | 11 Channels | | |
| | | IEEE 802.11n HT 40 MHz | 5510 ~ 5670 | 5 Channels | | |
| | Transmit Power | | Mode | Frequency Range (MHz) | Output Power (dBm) | Output Power (w) |
| | | U-NII-1 | IEEE 802.11a | 5180 ~ 5240 | 11.53 | 0.0142 |
| IEEE 802.11n HT 20 MHz | | | 5180 ~ 5240 | 12.36 | 0.0172 | |
| IEEE 802.11n HT 40 MHz | | | 5190 ~ 5230 | 13.08 | 0.0203 | |
| U-NII-2A | | IEEE 802.11a | 5260 ~ 5320 | 10.28 | 0.0107 | |
| | | IEEE 802.11n HT 20 MHz | 5260 ~ 5320 | 10.52 | 0.0113 | |
| | | IEEE 802.11n HT 40 MHz | 5270 ~ 5310 | 12.83 | 0.0192 | |
| U-NII-2C | | IEEE 802.11a | 5500 ~ 5700 | 12.48 | 0.0177 | |
| | | IEEE 802.11n HT 20 MHz | 5500 ~ 5700 | 12.74 | 0.0188 | |
| | | IEEE 802.11n HT 40 MHz | 5510 ~ 5670 | 12.59 | 0.0182 | |
| Modulation Technique | | OFDM (64QAM, 16QAM, QPSK, BPSK) | | | | |
| Antenna Specification | | Model: A10L FPC Antenna / Gain: 2.84dBi | | | | |

Remark: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2. *Keypast List :*

| Components | Vendor | Model Name or Key Spec. |
|---------------------|---------------|---|
| EMMC(FLASH) | Hynix | H26M52103FMR (16GB) |
| CPU | MTK | MT8163V/B (64-bit Quad Cortex A53) |
| DDR3L | Hynix | H5TC4G63AFR-PBA (1GB / 256*16) |
| M/B | Sun & lynn | A10L_V1.1 (94V-0) |
| 10.1" LCD Panel | Kingdisplay | KD101N37-40NA-A10 |
| Battery | TCL | PR-279594N (1ICP3/95/94-2) 3.7V, 6100mAh / 22.57Wh |
| Front Camera module | microkore | W05P4021 V2 (GC2355) |
| Rear Camera module | microkore | W05P4021 V2 (OV5670) |
| Speaker left | Haosheng | XHB160903B08-08-B-RH (8Ω) |
| Speaker right | Haosheng | XHB160903B08-07-B-RH (8Ω) |
| Adapter | Delta | ADP-10HW A I/P: 100-240Vac~, 0.4A, 50-60Hz O/P: 5.35Vdc, 2.0A |
| | Lite-On | PA-1100-25 I/P: 100-240Vac~, 0.3A, 50/60Hz O/P: 5.2Vdc, 2.0A |
| RF Module | MTK | MT6625LN/BT, WIFI |

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.407, KDB 644545 D03 v01 and KDB 789033 D02 v01r02 General UNII Test Procedures New Rules

The tests documented in this report were performed in accordance with IC RSS-247, IC RSS-Gen and ANSI C63.10:2013.

This submittal(s) (test report) is intended for IC Certification with Industry Canada RSS-247.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed for RF field strength measurement to meet the Commissions requirement, and is operated in a manner intended to generate the maximum emission in a continuous normal application.

3.2 EUT EXERCISE

The EUT is operated in the engineering mode to fix the Tx frequency for the purposes of measurement.

According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

According to the requirements in ANSI C63.10: 2013, the conducted emission from the EUT is measured in the frequency range between 0.15 MHz and 30MHz, using the CISPR Quasi-Peak detector mode.

Radiated Emissions

The EUT is placed on the turntable, which is 1.5 m above the ground plane. The turntable is then rotated for 360 degrees to determine the proper orientation for the maximum emission level. The EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission level. And, each emission is to be maximized by changing the horizontal and vertical polarization of the receiving antenna. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in ANSI C63.10: 2013.

3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | 322 - 335.4 | | |

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT (model: A6003) comes with two types of power adapter (model: PA-1100-25 / ADP-10HW A) for sale. After the preliminary test, the power adapter ADP-10HW A was found to emit the worst emissions and therefore had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

U-NII-1:

IEEE 802.11a for 5180 ~ 5240MHz:

Channel Low (5180MHz), Channel Mid (5220MHz) and Channel High (5240MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5180 ~ 5240MHz:

Channel Low (5180MHz), Channel Mid (5220MHz) and Channel High (5240MHz) with 6.5Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5190 ~ 5230MHz:

Channel Low (5190MHz) and Channel High (5230MHz) with 13.5Mbps data rate were chosen for full testing.

U-NII-2A:

IEEE 802.11a for 5260 ~ 5320MHz:

Channel Low (5260MHz), Channel Mid (5280MHz) and Channel High (5320MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5260 ~ 5320MHz:

Channel Low (5260MHz), Channel Mid (5280MHz) and Channel High (5320MHz) with 6.5Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz for 5270 ~ 5310MHz:

Channel Low (5270MHz) and Channel High (5310MHz) with 13.5Mbps data rate were chosen for full testing.

U-NII-2C:**IEEE 802.11a for 5500 ~ 5720MHz:**

Channel Low (5500MHz), Channel Mid (5580MHz) and Channel High (5720MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5500 ~ 5720MHz:

Channel Low (5500MHz), Channel Mid (5580MHz) and Channel High (5720MHz) with 6.5Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz for 5510 ~ 5710MHz:

Channel Low (5510MHz), Channel Mid (5550MHz) and Channel High (5710MHz) with 13.5Mbps data rate were chosen for full testing.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once three years.

| Conducted Emissions Test Site | | | | | |
|---------------------------------|--------------|-----------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| DC Power Supplies | GW Instek | SPS-3610 | GPE880163 | 01/19/2016 | 01/18/2017 |
| Power Meter | Anritsu | ML2495A | 1012009 | 07/08/2015 | 07/07/2016 |
| Power Sensor | Anritsu | MA2411B | 917072 | 07/08/2015 | 07/07/2016 |
| Signal Analyzer | R&S | FSV 40 | 101073 | 07/20/2015 | 07/19/2016 |
| Spectrum Analyzer | Agilent | E4446A | US42510268 | 02/15/2016 | 02/14/2017 |
| Thermostatic/Hrgrosatic Chamber | TAICHY | MHG-150LF | 930619 | 10/08/2015 | 10/07/2016 |
| Vector Signal Generator | R&S | SMU 200A | 102239 | 03/10/2016 | 03/09/2017 |
| AC Power Source | EXTECH | 6205 | 1140845 | N.C.R | N.C.R |

| Wugu 966 Chamber A | | | | | |
|--------------------|--------------------|---------------------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Bilog Antenna | Sunol Sciences | JB3 | A030105 | 08/06/2015 | 08/05/2016 |
| EMI Test Receiver | R&S | ESCI | 100064 | 06/05/2015 | 06/04/2016 |
| Horn Antenna | EMCO | 3117 | 55165 | 02/24/2016 | 02/23/2017 |
| Horn Antenna | EMCO | 3116 | 26370 | 01/15/2016 | 01/14/2017 |
| K Type Cable | Huber+Suhner | SUCOFLEX 102 | 29406/2 | 01/12/2016 | 01/11/2017 |
| K Type Cable | Huber+Suhner | SUCOFLEX 102 | 22470/2 | 01/12/2016 | 01/11/2017 |
| Pre-Amplifier | MITEQ | AMF-6F-260400-40-8P | 985646 | 01/14/2016 | 01/13/2017 |
| Pre-Amplifier | EMCI | EMC 012635 | 980151 | 06/05/2015 | 06/04/2016 |
| Pre-Amplifier | EMCI | EM330 | N/A | 06/05/2015 | 06/04/2016 |
| Spectrum Analyzer | Agilent | E4446A | US42510252 | 12/08/2015 | 12/07/2016 |
| Antenna Tower | CCS | CC-A-1F | N/A | N.C.R | N.C.R |
| Controller | CCS | CC-C-1F | N/A | N.C.R | N.C.R |
| Turn Table | CCS | CC-T-1F | N/A | N.C.R | N.C.R |
| Software | EZ-EMC (CCS-3A1RE) | | | | |

| Conducted Emission Room # B | | | | | |
|-----------------------------|--------------|-----------|---------------|------------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Capacitive Voltage Probe | FCC | F-CVP-1 | 100185 | 03/09/2016 | 03/08/2017 |
| EMI Test Receiver | R&S | ESCI | 101073 | 09/09/2015 | 09/08/2016 |
| LISN | SCHWARZBECK | NSLK 8127 | 8127-541 | 11/23/2015 | 11/22/2016 |
| LISN | R&S | ENV216 | 101054 | 05/11/2016 | 05/10/2017 |
| Test S/W | CCS-3A1-CE | | | | |

4.3 MEASUREMENT UNCERTAINTY

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| Powerline Conducted Emission | +/- 1.2575 |
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.0138 |
| 3M Semi Anechoic Chamber / 200M~1000M | +/- 3.9483 |
| 3M Semi Anechoic Chamber / 1G~8G | +/- 2.5975 |
| 3M Semi Anechoic Chamber / 8G~18G | +/- 2.6112 |
| 3M Semi Anechoic Chamber / 18G~26G | +/- 2.7389 |
| 3M Semi Anechoic Chamber / 26G~40G | +/- 2.9683 |

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

- No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
- No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
- No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10: 2013 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, ridged waveguide, horn and/or Loop. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.




Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 0824-01 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, IC 2324G-1 for 3M Semi Anechoic Chamber A, 2324G-2 for 3M Semi Anechoic Chamber B.

5.4 TABLE OF ACCREDITATIONS AND LISTINGS

| Country | Agency | Scope of Accreditation | Logo |
|---------|-----------------|---|---|
| USA | FCC | 3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements |  FCC MRA: TW1039 |
| Taiwan | TAF | LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-247, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12.2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11 |  |
| Canada | Industry Canada | 3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform |  IC 2324G-1 IC 2324G-2 |

** No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.*

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

| No. | Device Type | Brand | Model | Series No. | FCC ID | Data Cable | Power Cord |
|-----|-------------|-------|-------|------------|--------|------------|------------|
| | N/A | | | | | | |

Remark:

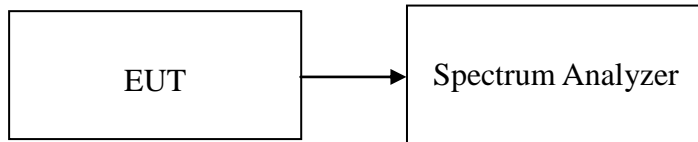
1. *All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
2. *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

7. FCC PART 15 REQUIREMENTS & RSS-247 REQUIREMENTS

7.1 99% BANDWIDTH

Test Configuration

TEST PROCEDURE



The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold.

TEST RESULTS**Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5180 | 16.7872 |
| Mid | 5220 | 16.9030 |
| High | 5240 | 17.1345 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5180 | 17.7134 |
| Mid | 5220 | 17.8292 |
| High | 5240 | 17.8292 |

Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5190 | 36.1215 |
| High | 5230 | 36.2373 |

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5260 | 17.0767 |
| Mid | 5280 | 16.9030 |
| High | 5320 | 16.9030 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5260 | 17.5976 |
| Mid | 5280 | 17.6555 |
| High | 5320 | 17.5976 |

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5270 | 36.1215 |
| High | 5310 | 36.1215 |

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5500 | 16.7872 |
| Mid | 5580 | 16.7293 |
| High | 5700 | 16.7872 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5500 | 17.5976 |
| Mid | 5580 | 17.6555 |
| High | 5700 | 17.5976 |

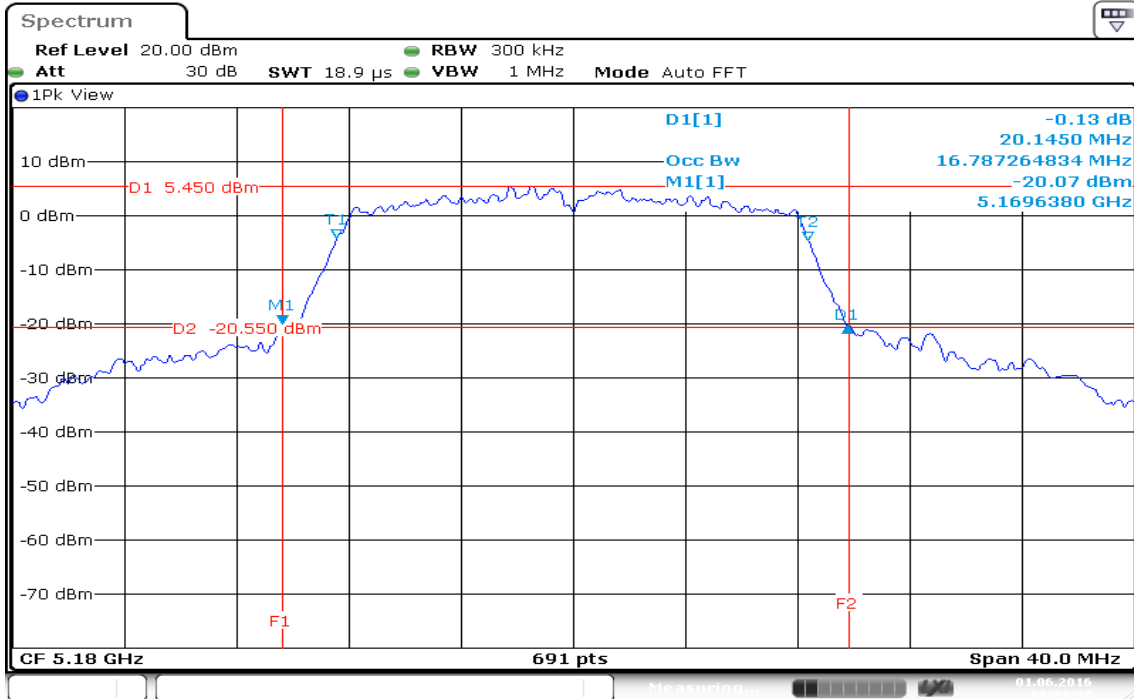
Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5710MHz

| Channel | Frequency (MHz) | 99% Bandwidth (MHz) |
|---------|-----------------|---------------------|
| Low | 5510 | 36.4688 |
| Mid | 5550 | 36.2373 |
| High | 5670 | 36.3531 |

Test Plot

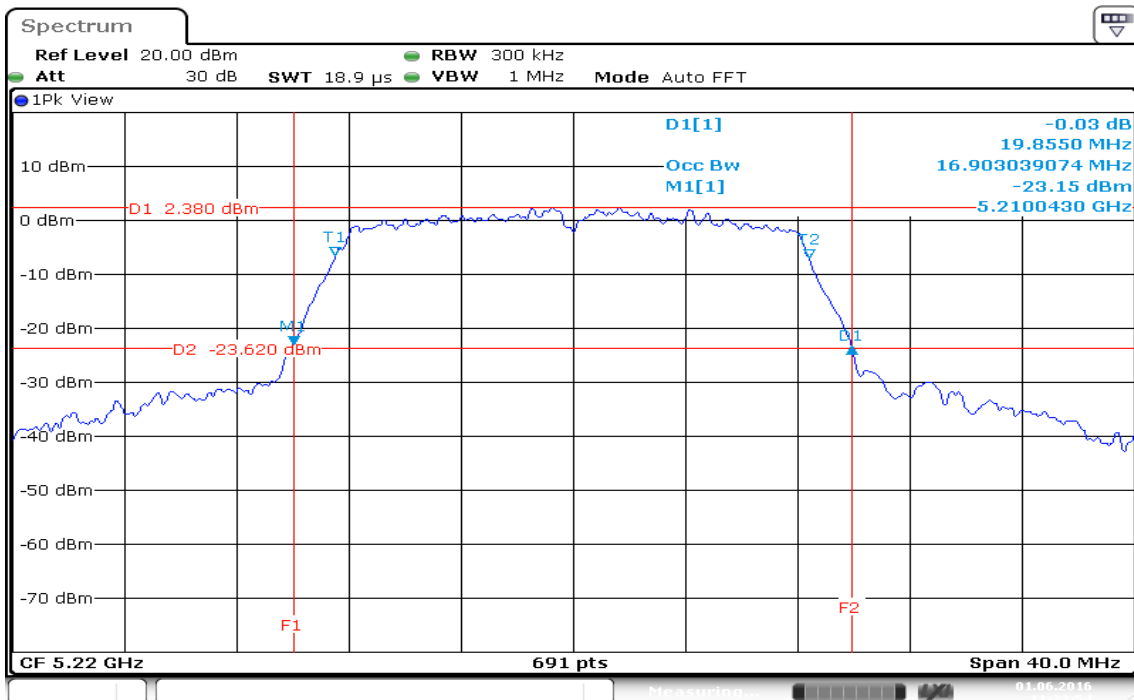
IEEE 802.11a mode / 5180 ~ 5240MHz

99% Bandwidth (CH Low)



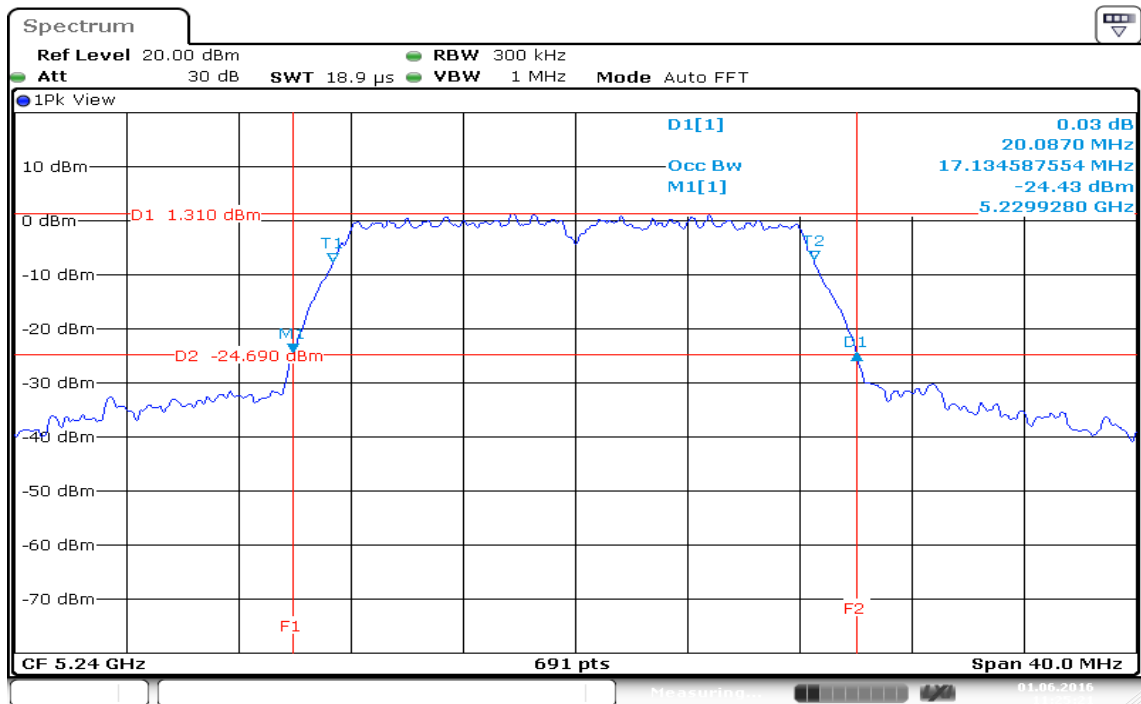
Date: 1.JUN.2016 11:21:37

99% Bandwidth (CH Mid)



Date: 1.JUN.2016 11:23:55

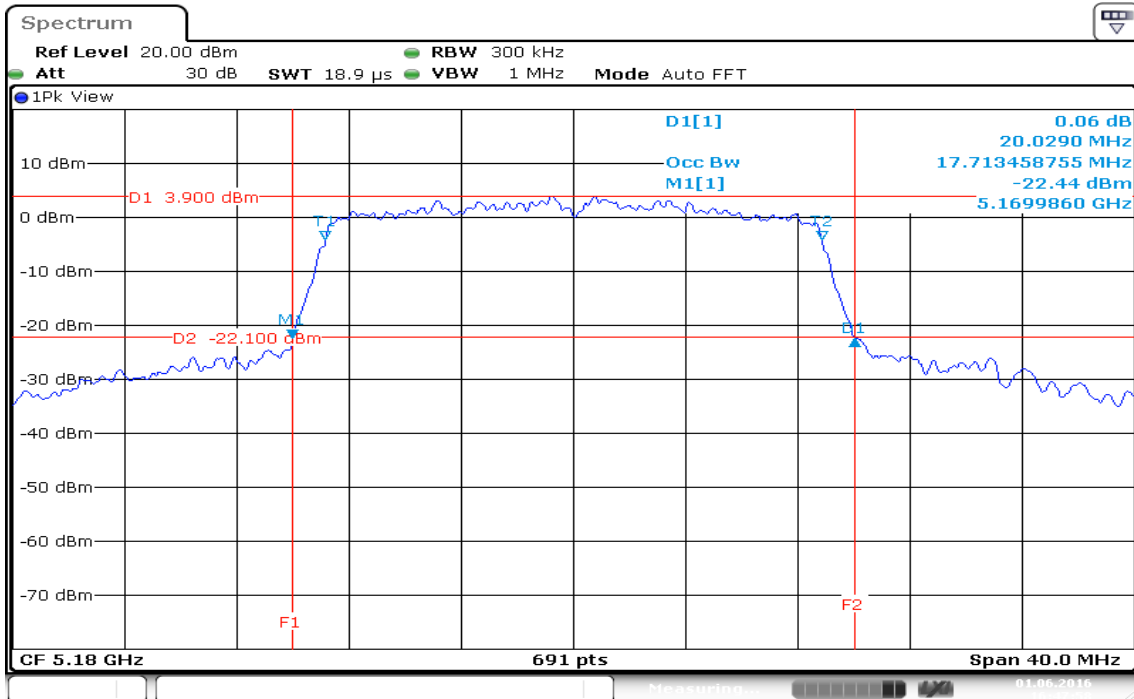
99% Bandwidth (CH high)



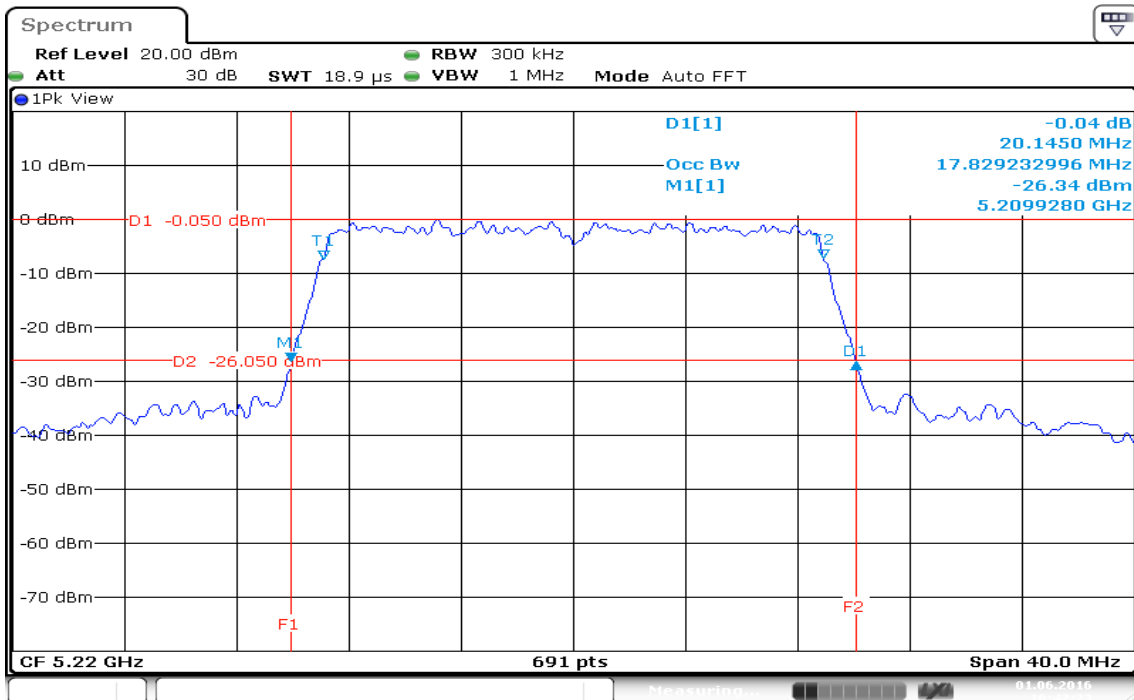
Date: 1.JUN.2016 11:25:22

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

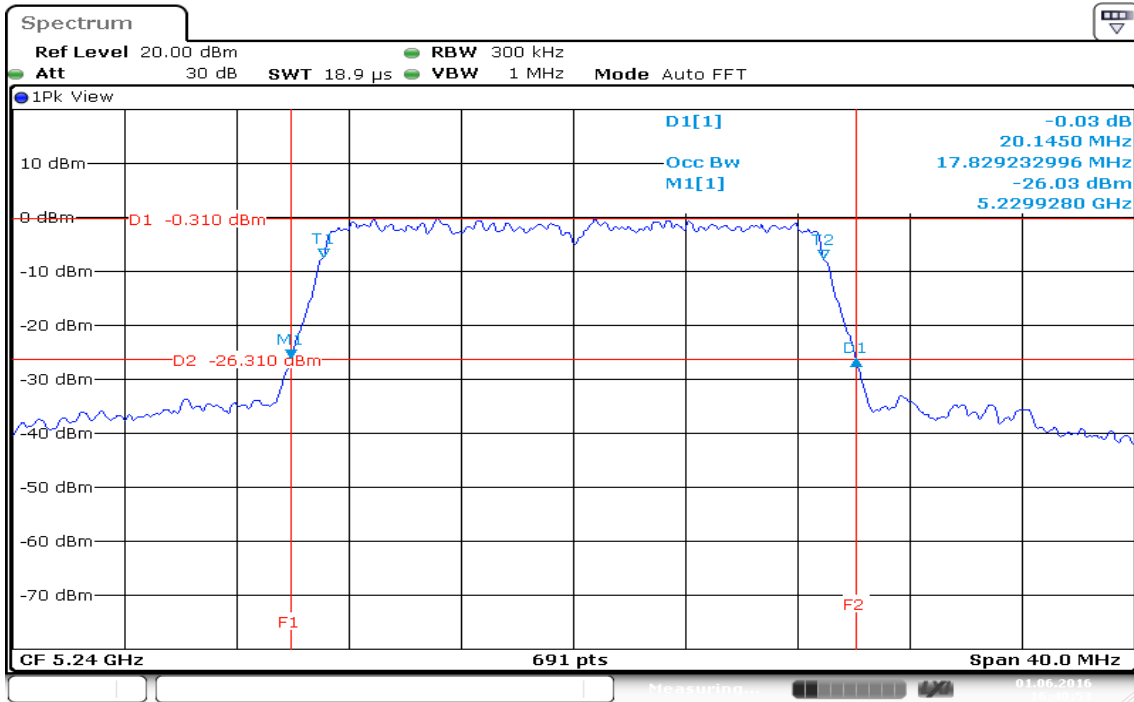
99% Bandwidth (CH Low)



99% Bandwidth (CH Mid)



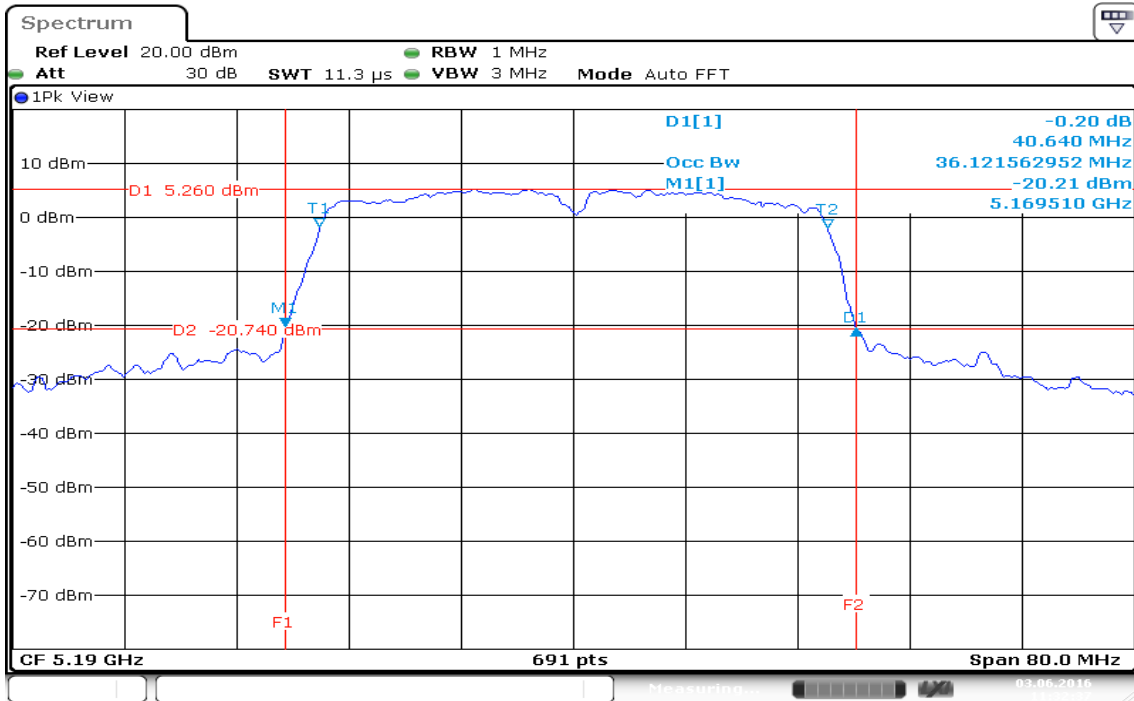
99% Bandwidth (CH High)



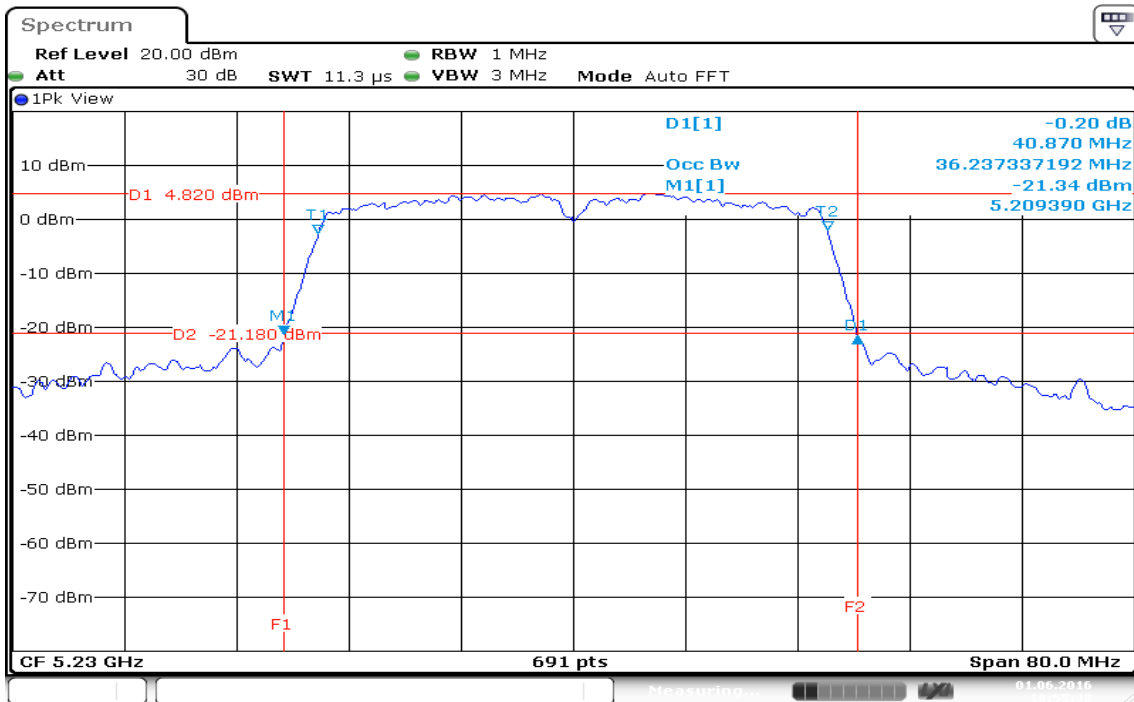
Date: 1.JUN.2016 16:40:53

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

99% Bandwidth (CH Low)

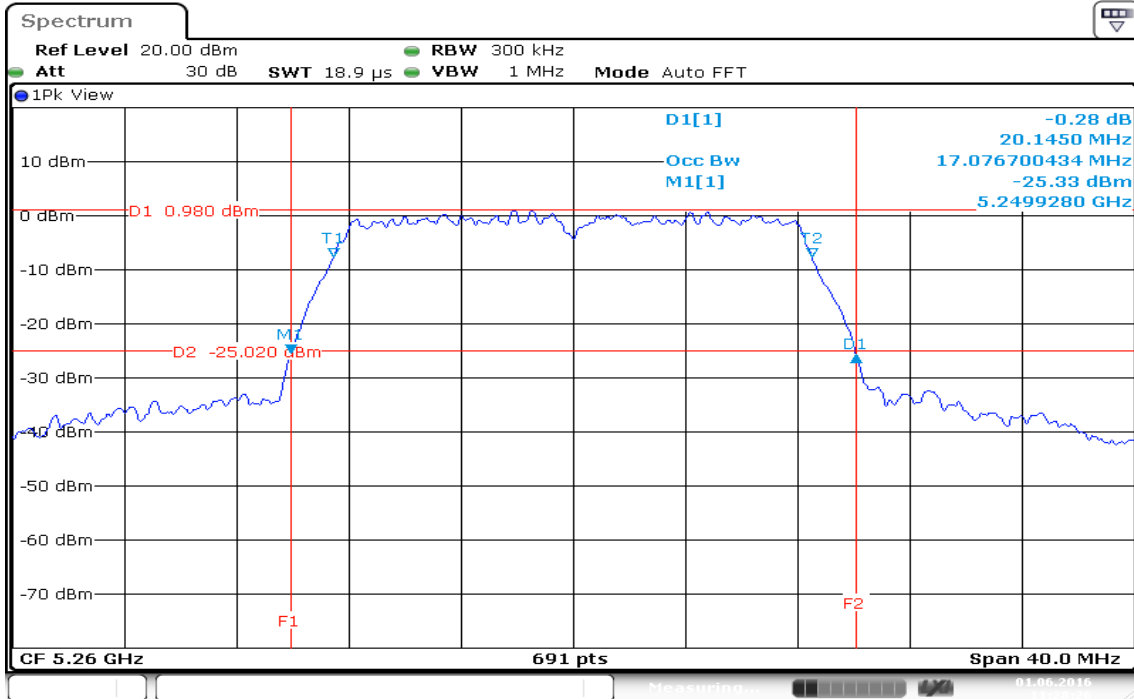


99% Bandwidth (CH High)

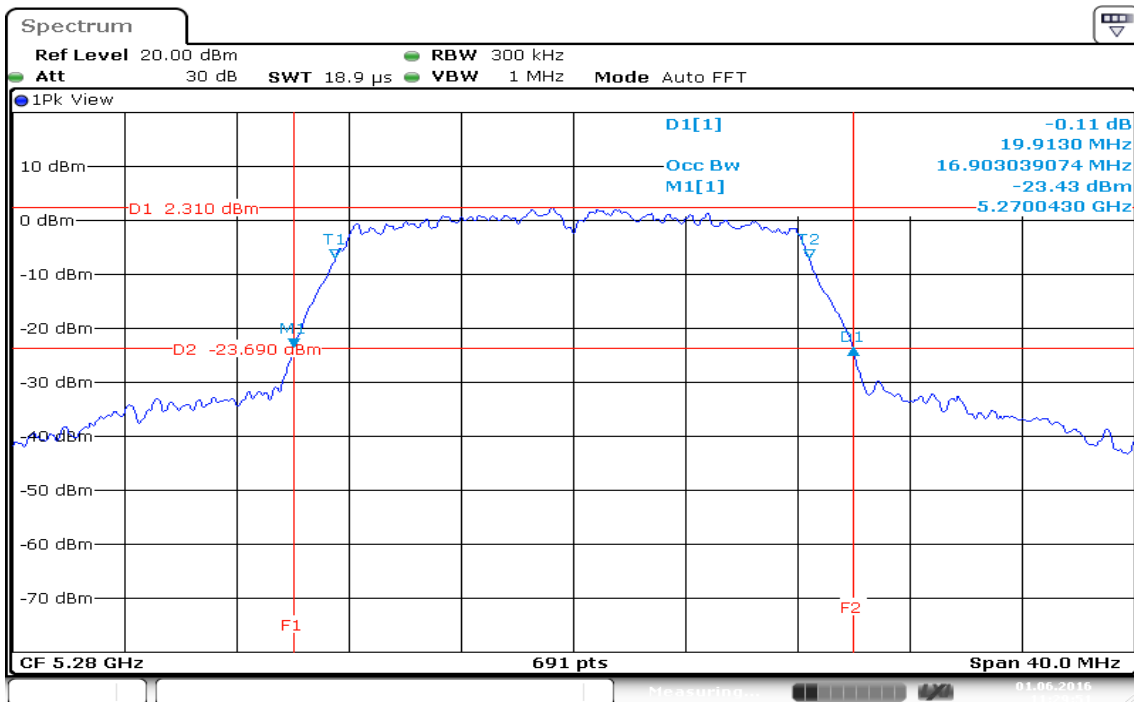


IEEE 802.11a mode / 5260 ~ 5320MHz

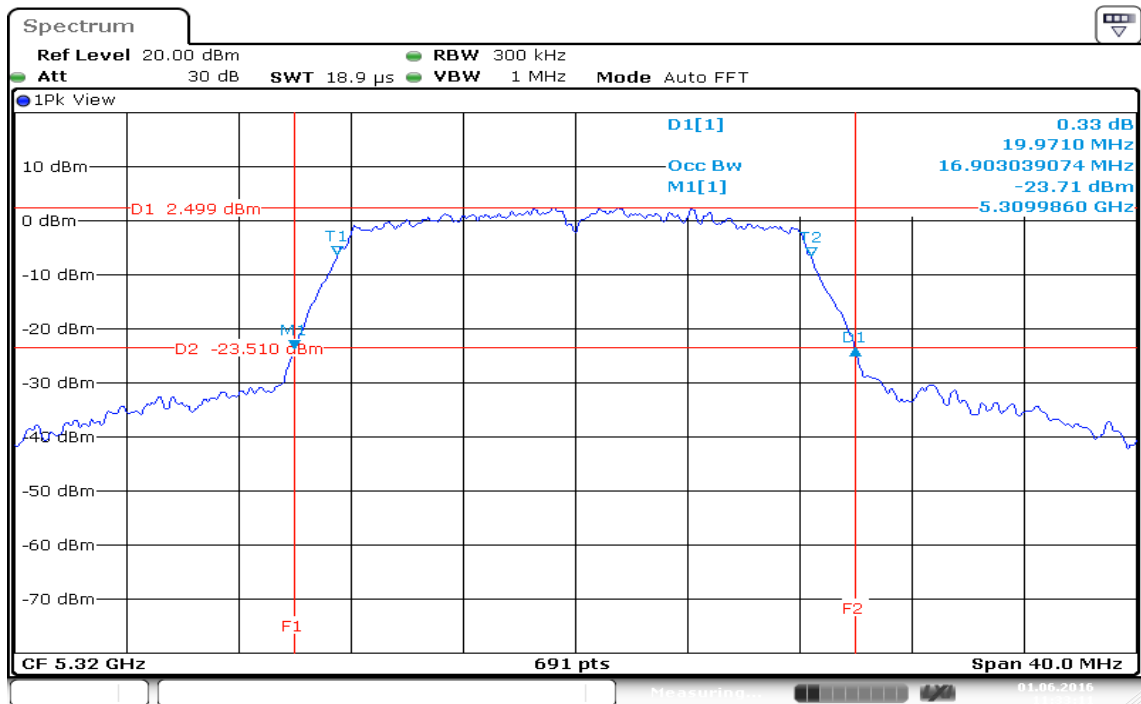
99% Bandwidth (CH Low)



99% Bandwidth (CH Mid)



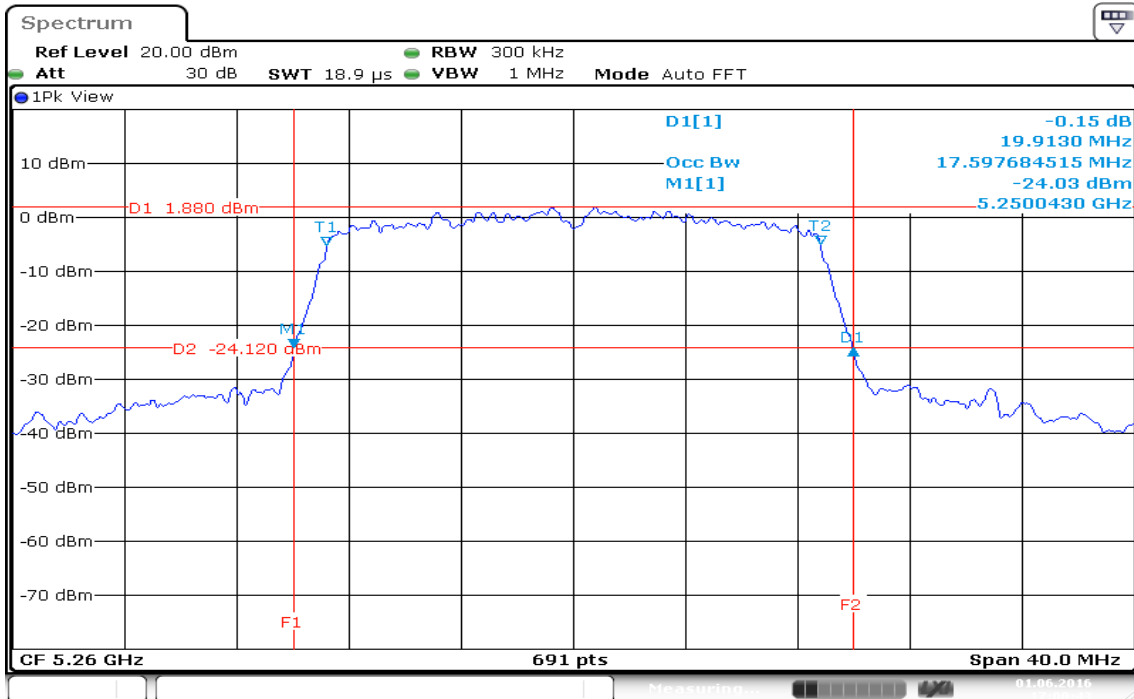
99% Bandwidth (CH High)



Date: 1.JUN.2016 11:33:11

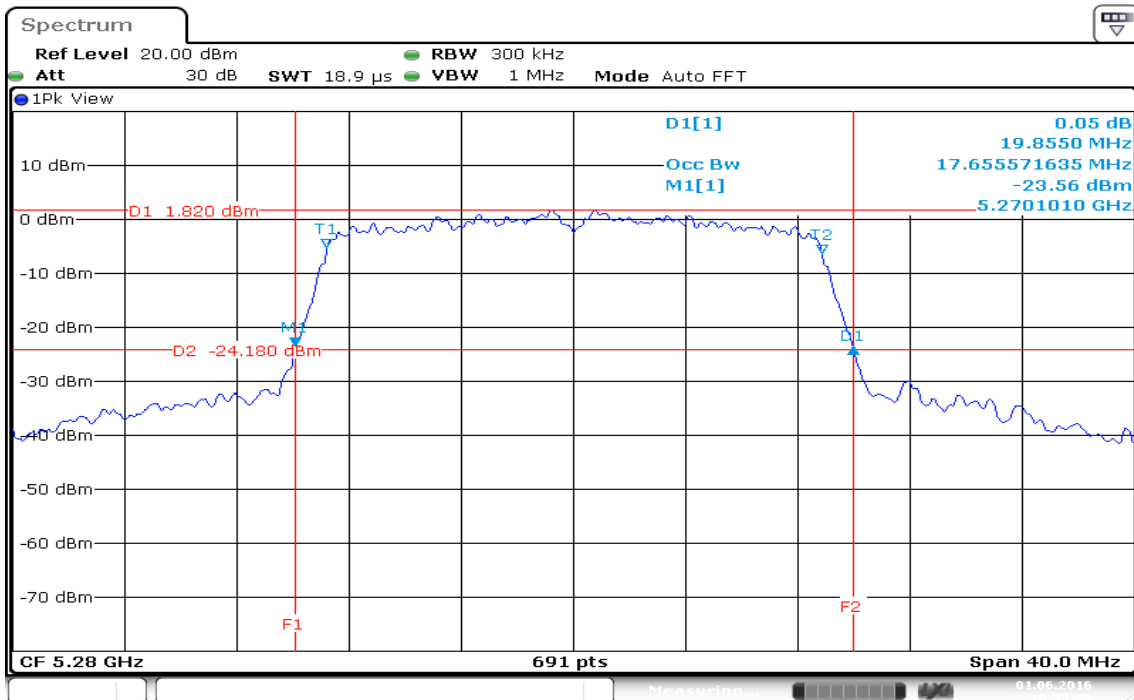
IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

99% Bandwidth (CH Low)



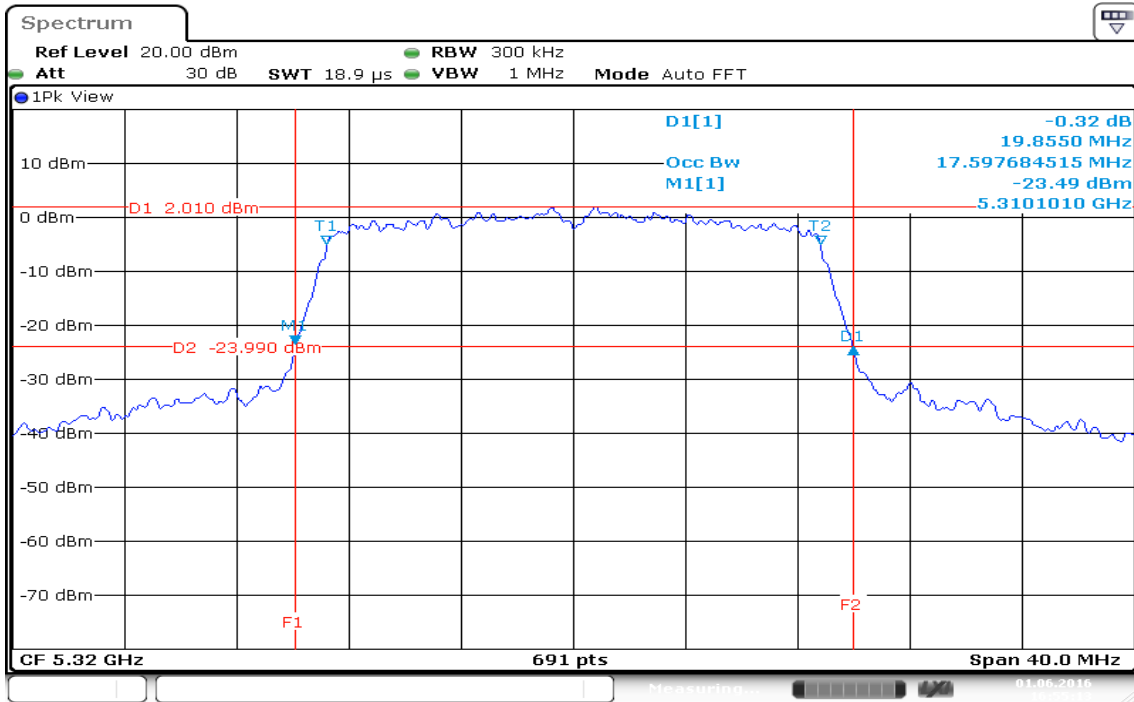
Date: 1.JUN.2016 17:00:44

99% Bandwidth (CH Mid)



Date: 1.JUN.2016 16:53:40

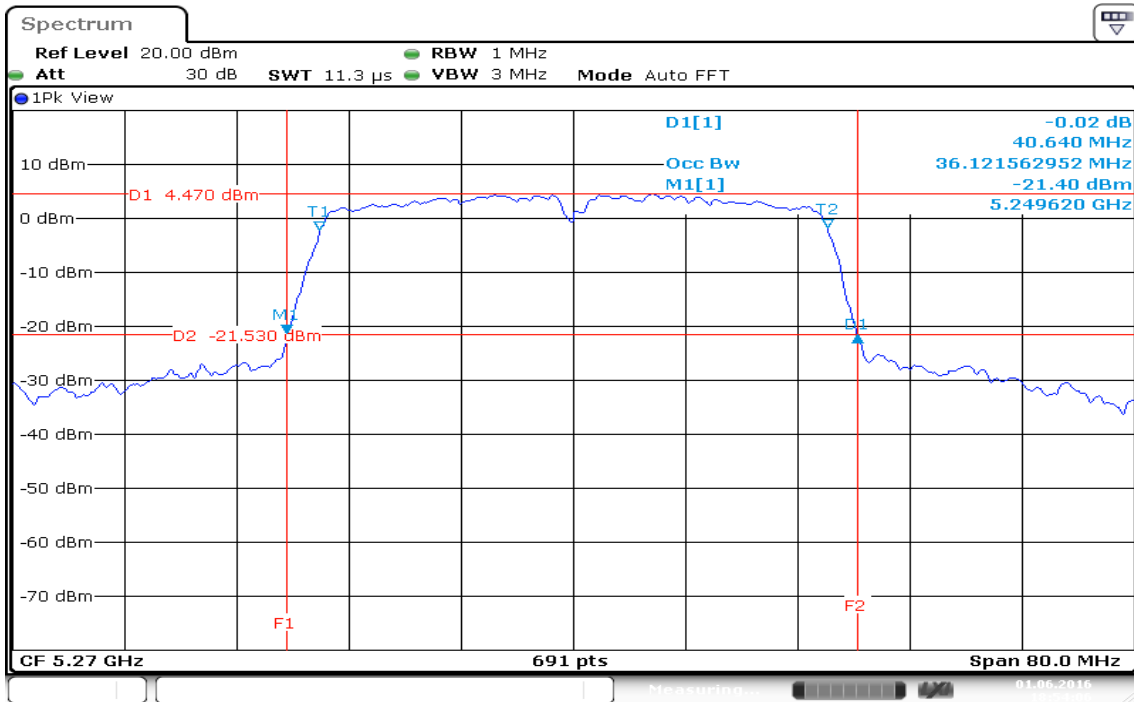
99% Bandwidth (CH High)



Date: 1.JUN.2016 16:55:14

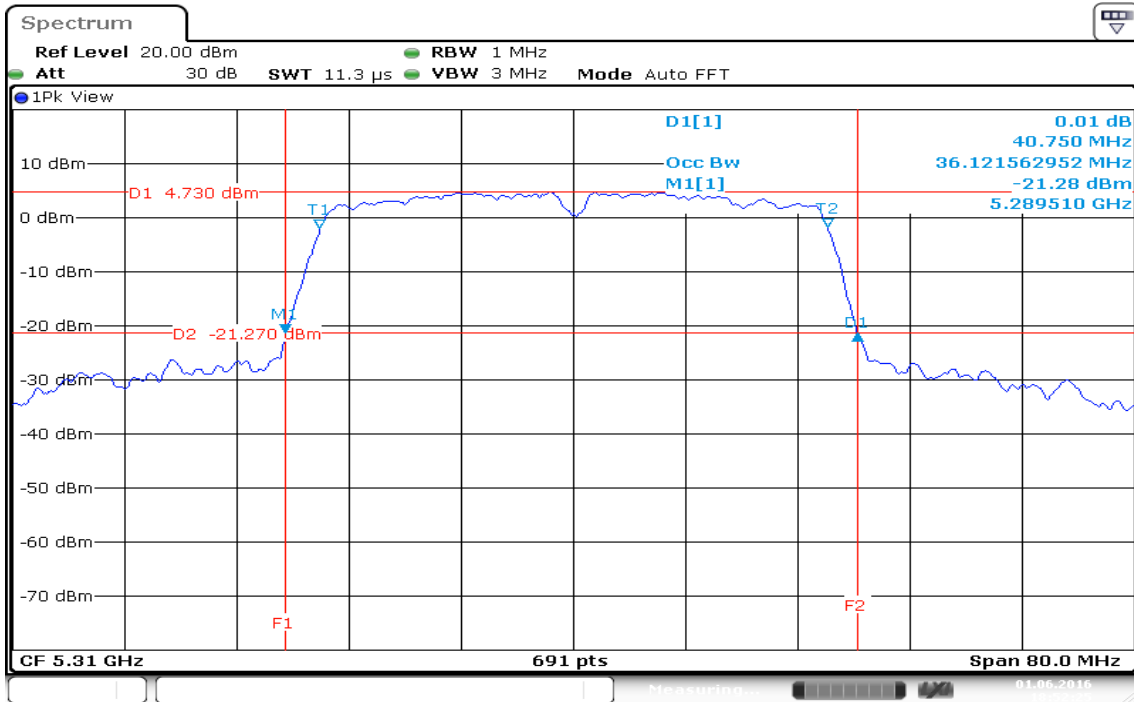
IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

99% Bandwidth (CH Low)



Date: 1.JUN.2016 18:54:06

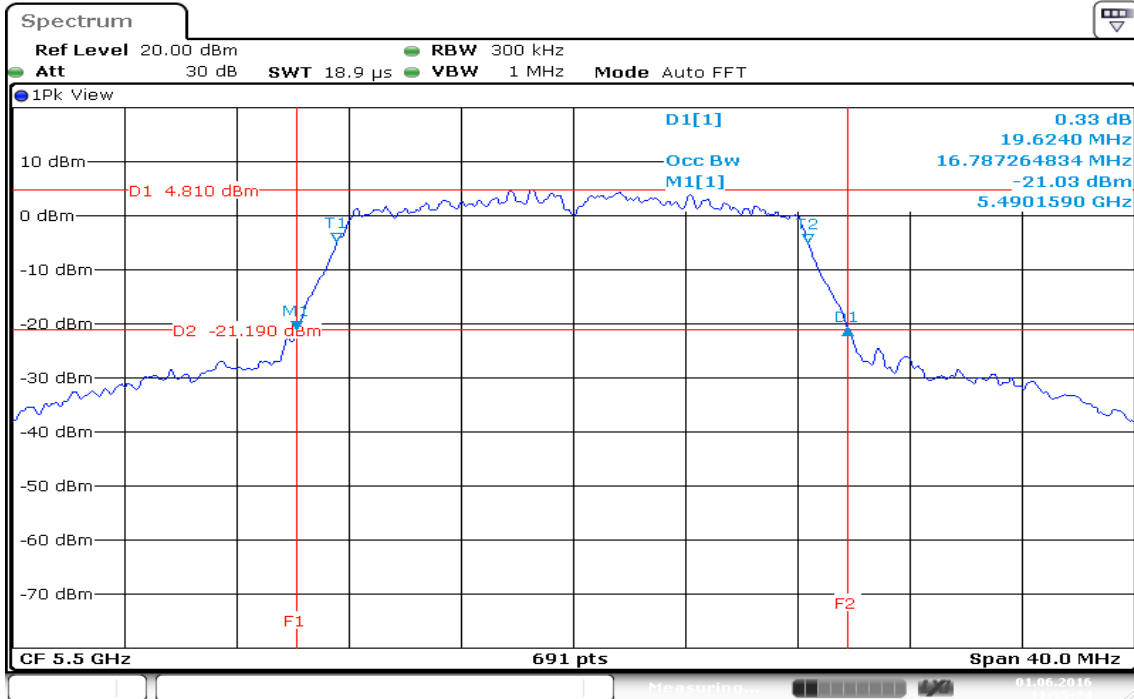
99% Bandwidth (CH High)



Date: 1.JUN.2016 18:52:25

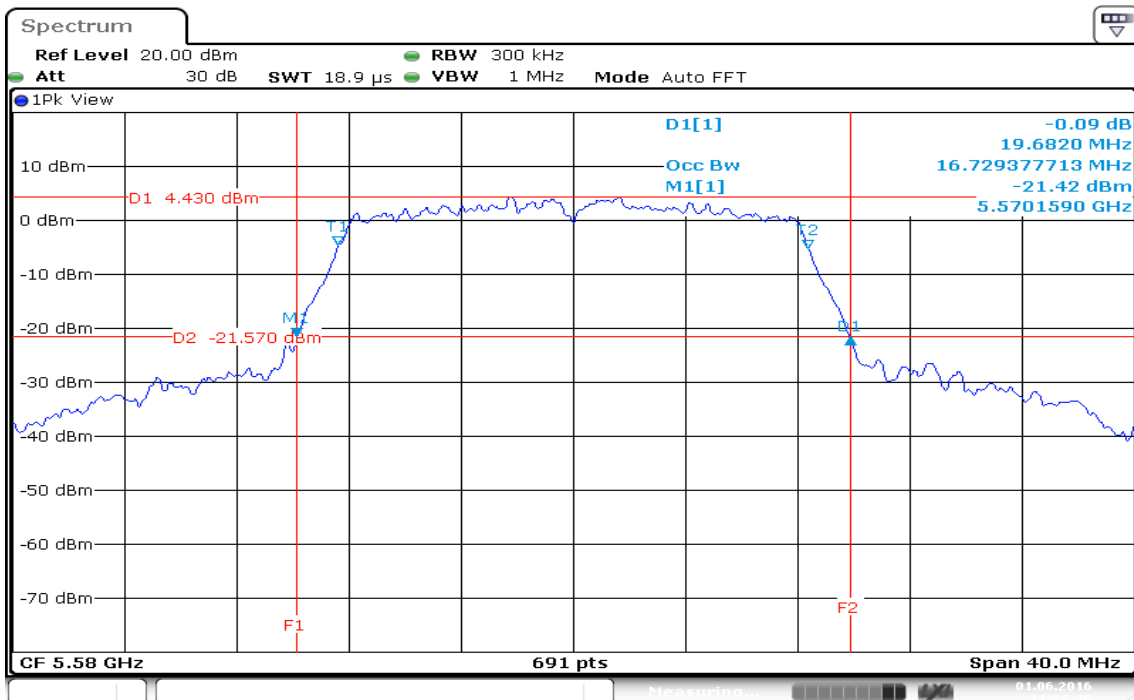
Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

99% Bandwidth (CH Low)



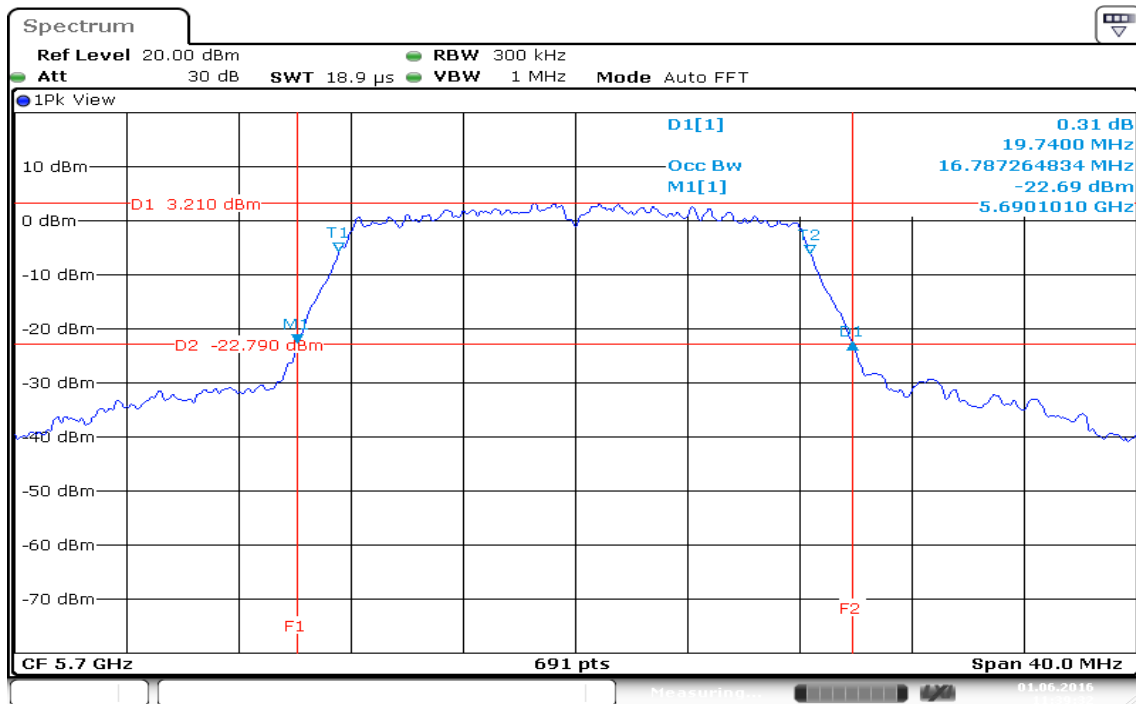
Date: 1.JUN.2016 11:35:24

99% Bandwidth (CH Mid)



Date: 1.JUN.2016 11:36:46

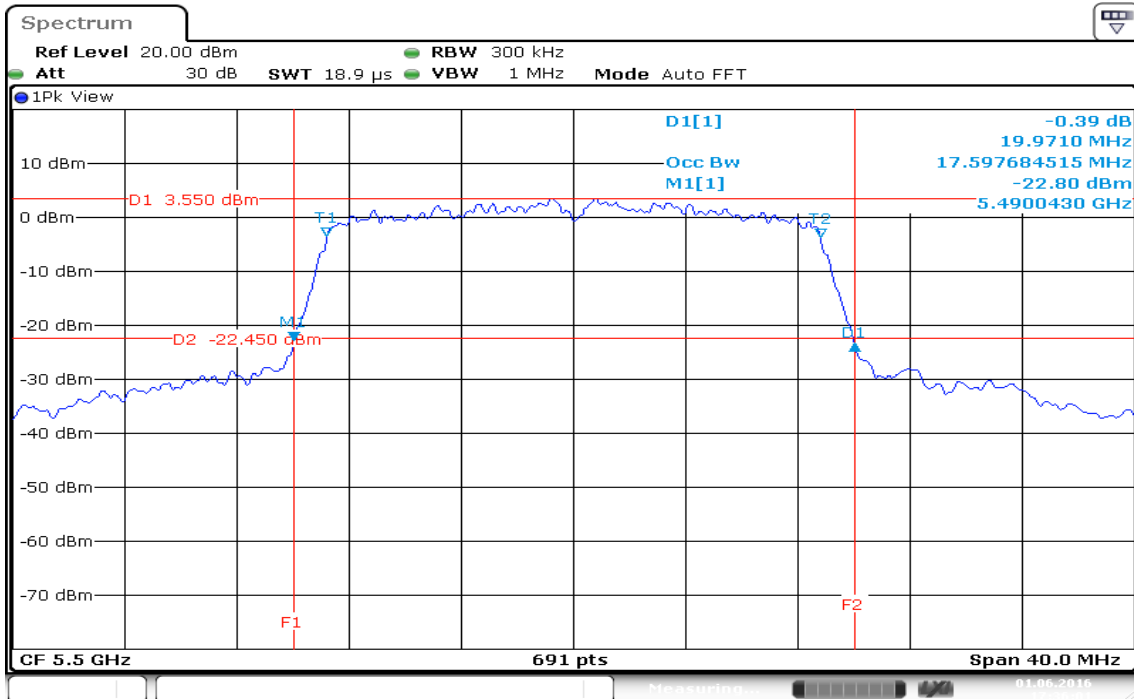
99% Bandwidth (CH High)



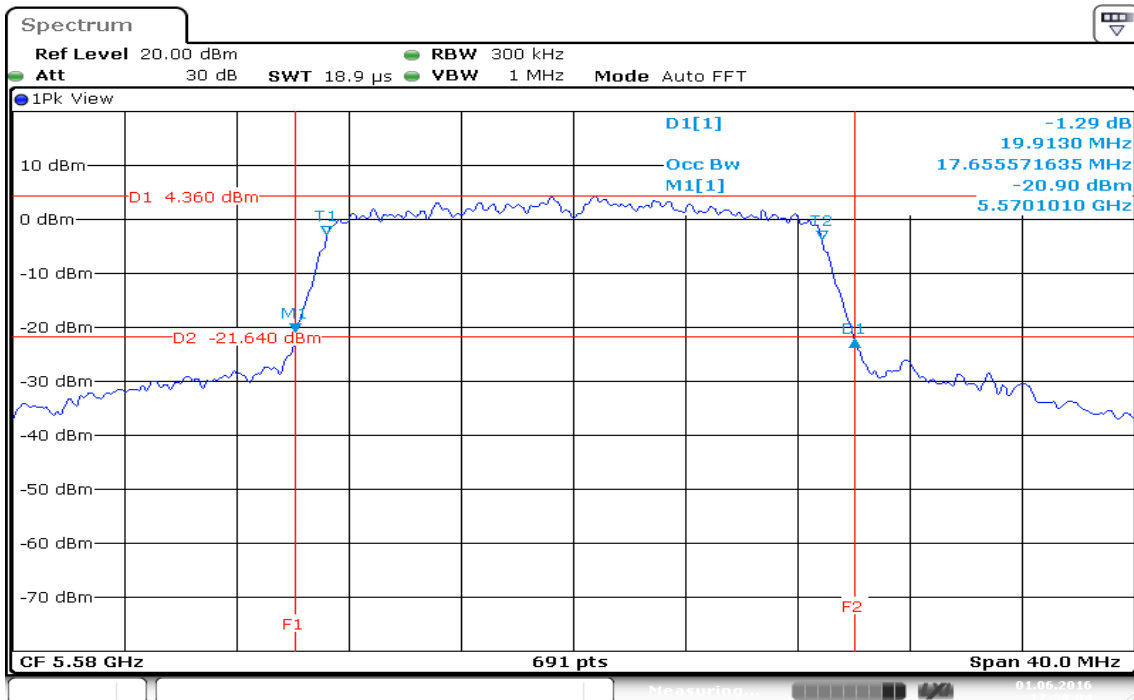
Date: 1.JUN.2016 11:39:32

IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

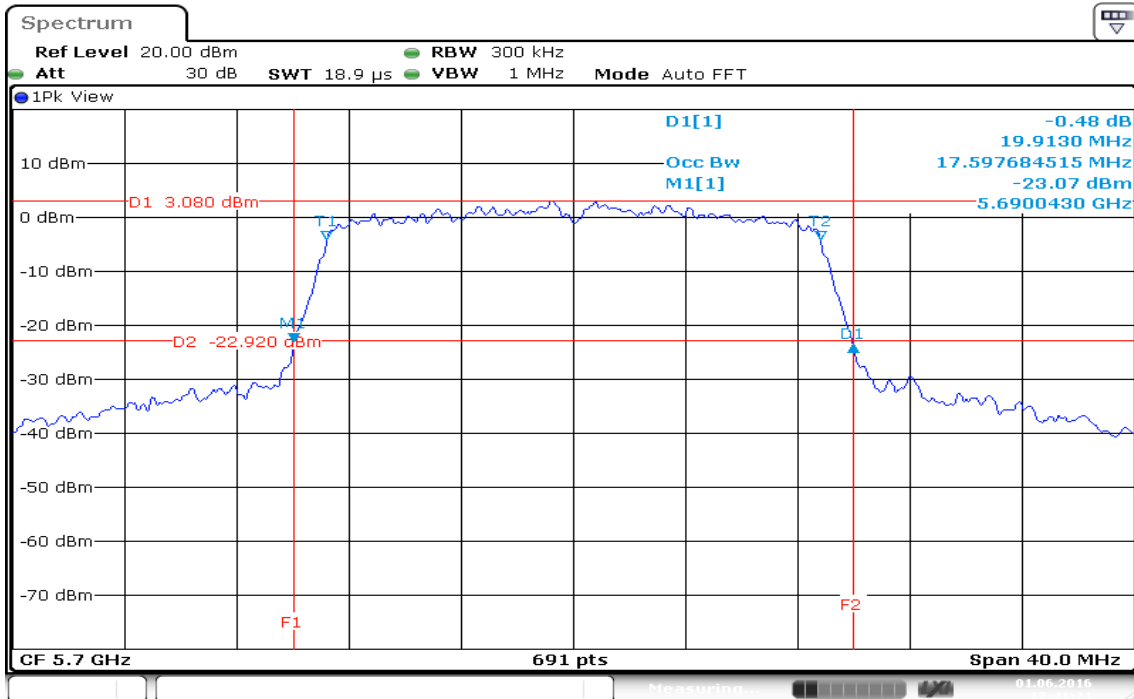
99% Bandwidth (CH Low)



99% Bandwidth (CH Mid)



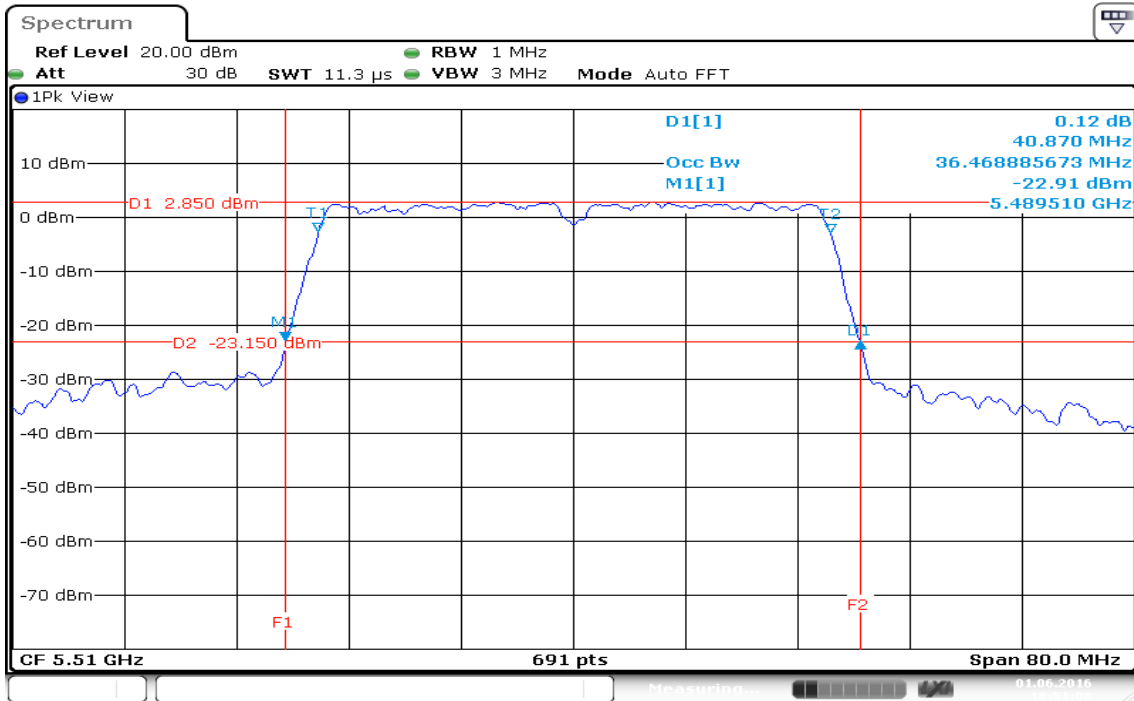
99% Bandwidth (CH High)



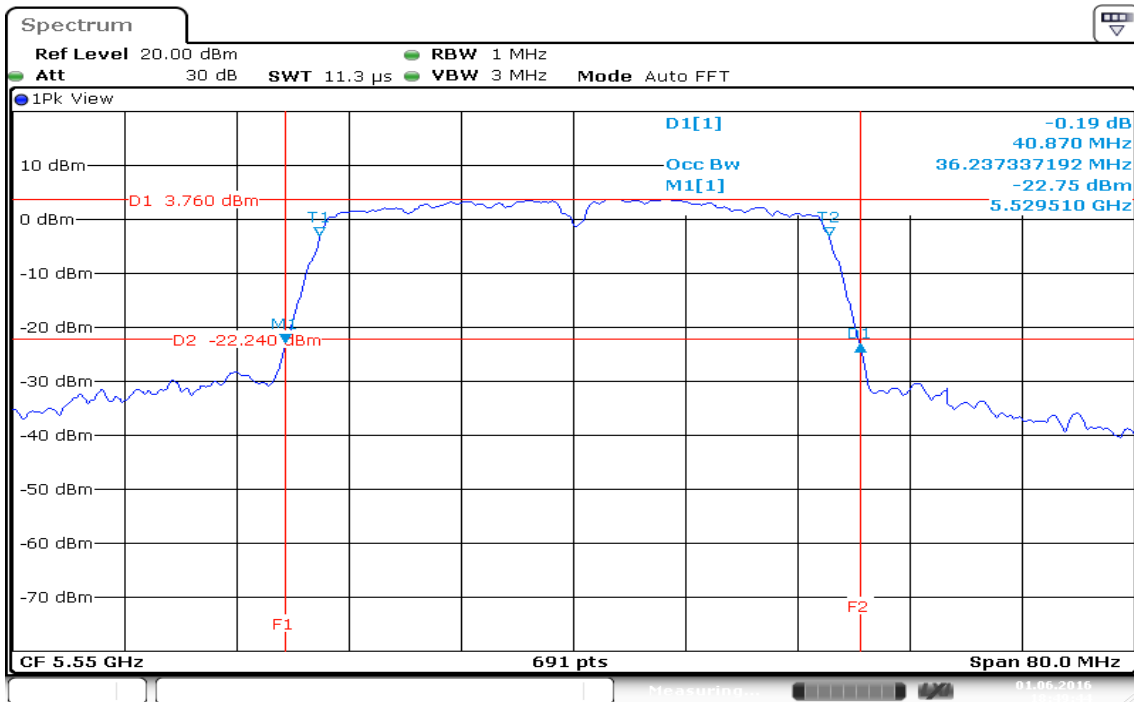
Date: 1.JUN.2016 17:41:22

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

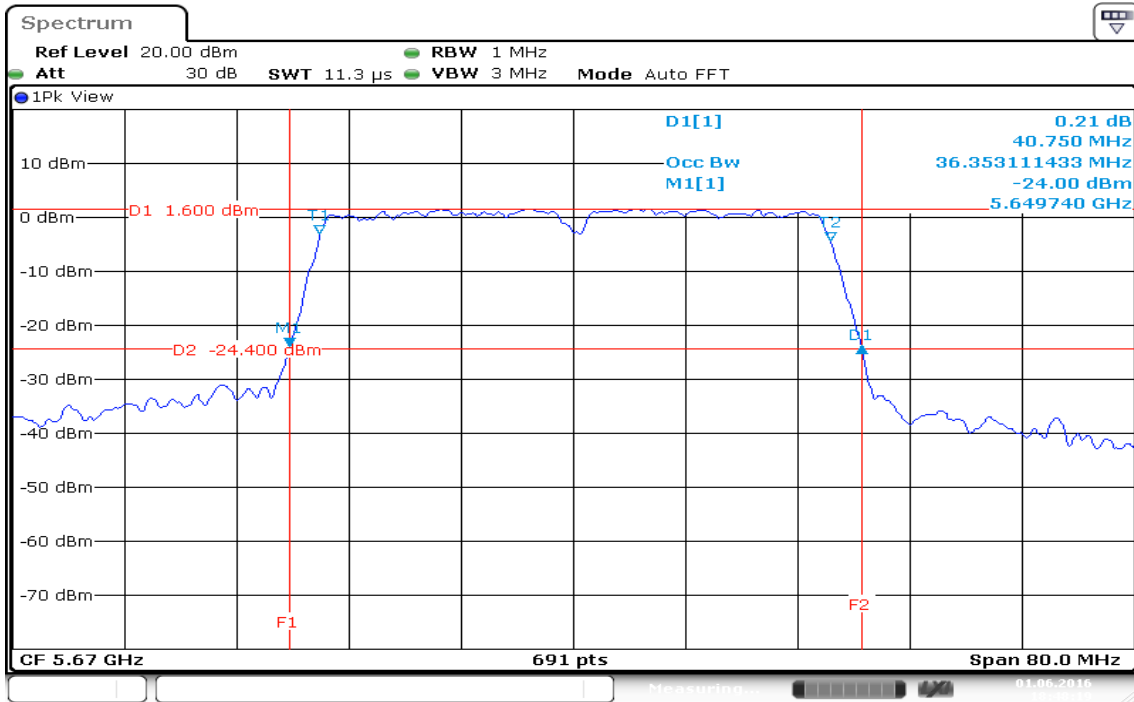
99% Bandwidth (CH Low)



99% Bandwidth (CH Mid)



99% Bandwidth (CH High)



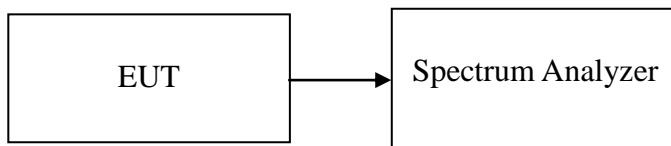
Date: 1.JUN.2016 18:48:20

7.2 26 dB EMISSION BANDWIDTH

LIMIT

Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as $RBW > 1\%EBW$, $VBW > RBW$, $Span > 26dB$ bandwidth, and Sweep = auto.
4. Mark the peak frequency and $-26dB$ (upper and lower) frequency.
5. Repeat until all the rest channels were investigated.

TEST RESULTS

No non-compliance noted

Test Data**Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5180 | 20.1450 |
| Mid | 5220 | 19.8550 |
| High | 5240 | 20.0870 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5180 | 20.0290 |
| Mid | 5220 | 20.1450 |
| High | 5240 | 20.1450 |

Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5190 | 40.640 |
| Mid | 5230 | 40.870 |

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5260 | 20.1450 |
| Mid | 5280 | 19.9130 |
| High | 5320 | 19.9710 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5260 | 19.9130 |
| Mid | 5280 | 19.8550 |
| High | 5320 | 19.8550 |

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5270 | 40.640 |
| Mid | 5310 | 40.750 |

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5500 | 19.6240 |
| Mid | 5580 | 19.6820 |
| High | 5700 | 19.7400 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5500 | 19.9710 |
| Mid | 5580 | 19.9130 |
| High | 5700 | 19.9130 |

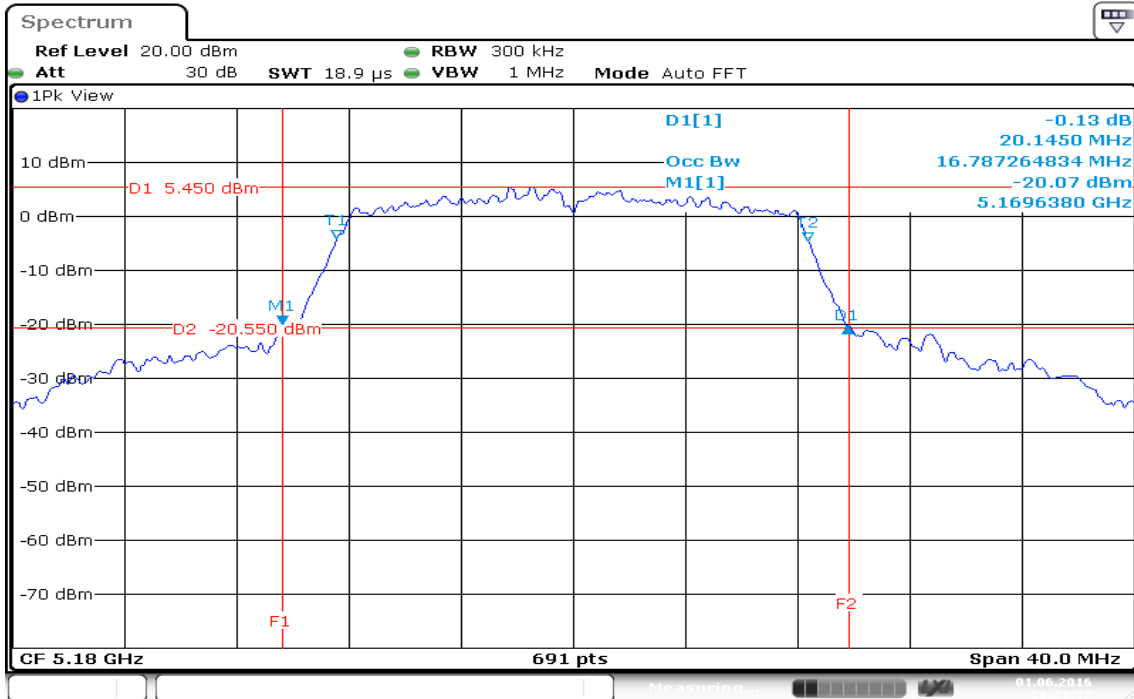
Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

| Channel | Frequency (MHz) | 26db Bandwidth (MHz) |
|---------|-----------------|----------------------|
| Low | 5510 | 40.870 |
| Mid | 5550 | 40.870 |
| High | 5670 | 40.750 |

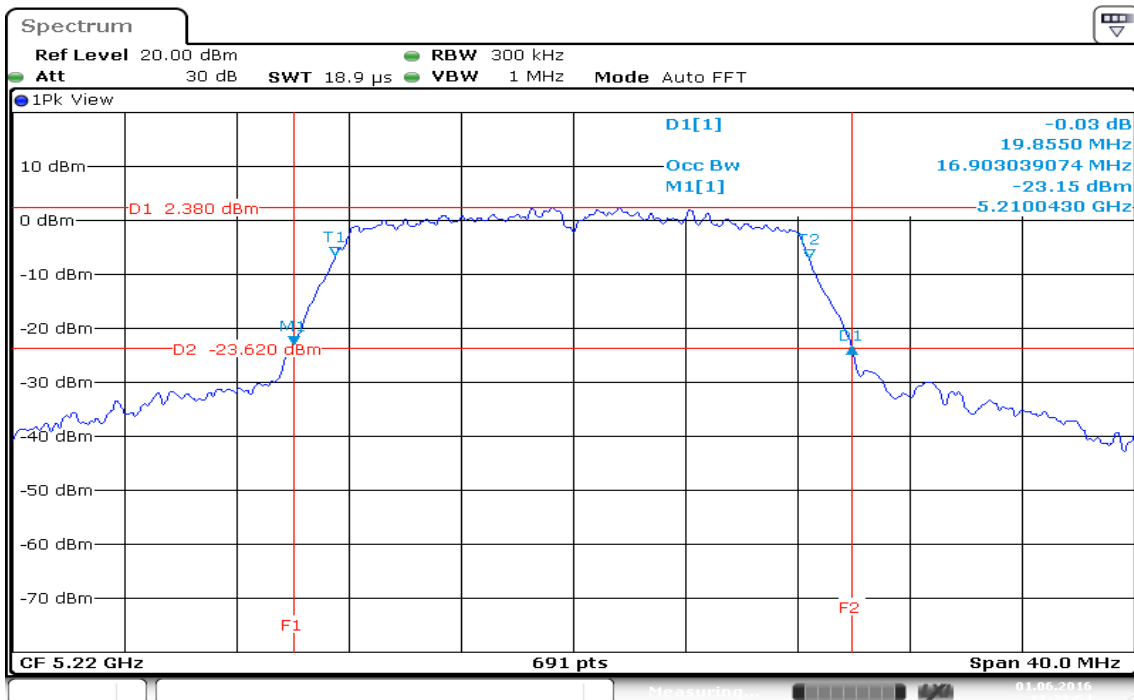
Test Plot

IEEE 802.11a for 5180 ~ 5240MHz

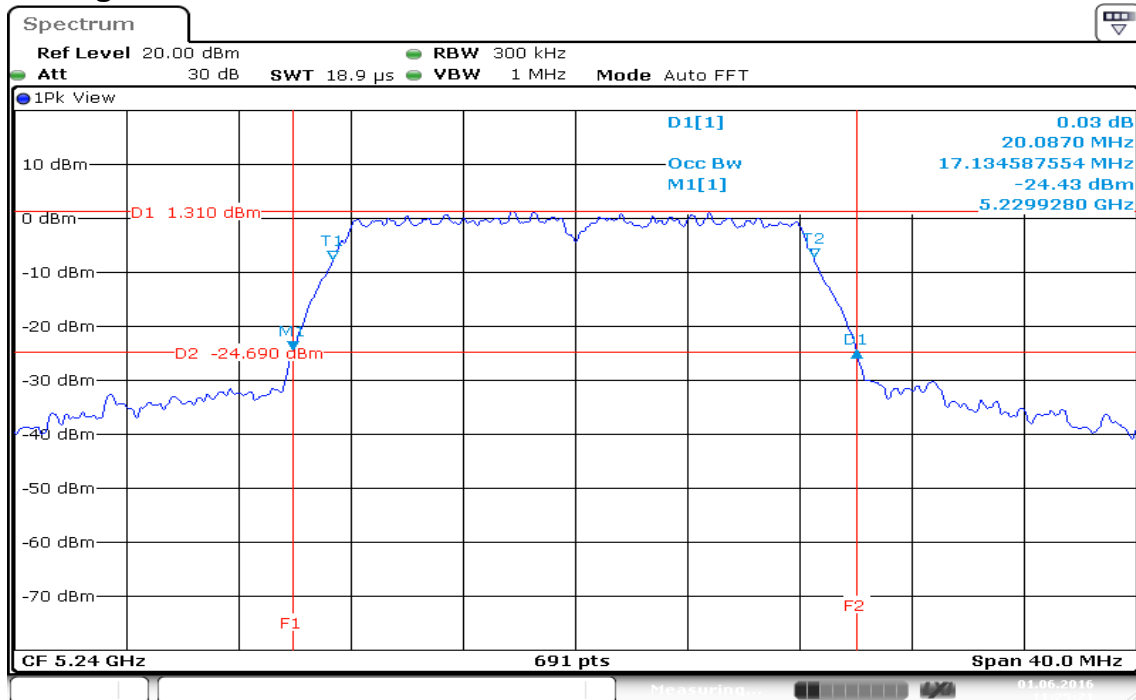
CH Low



CH Mid



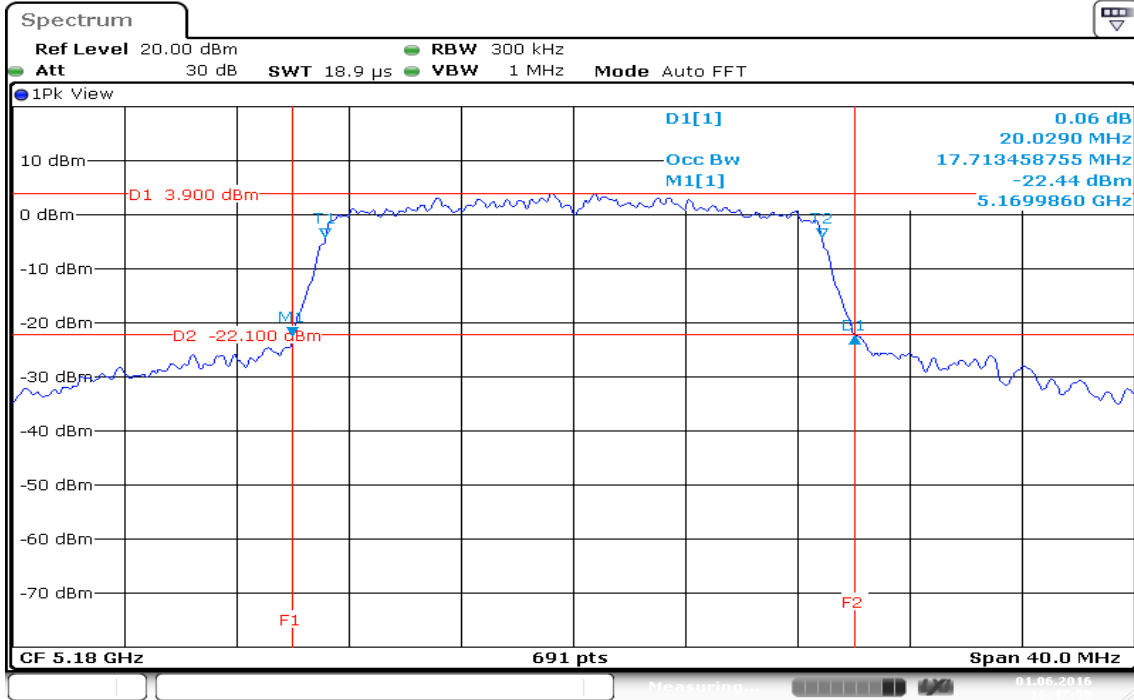
CH High



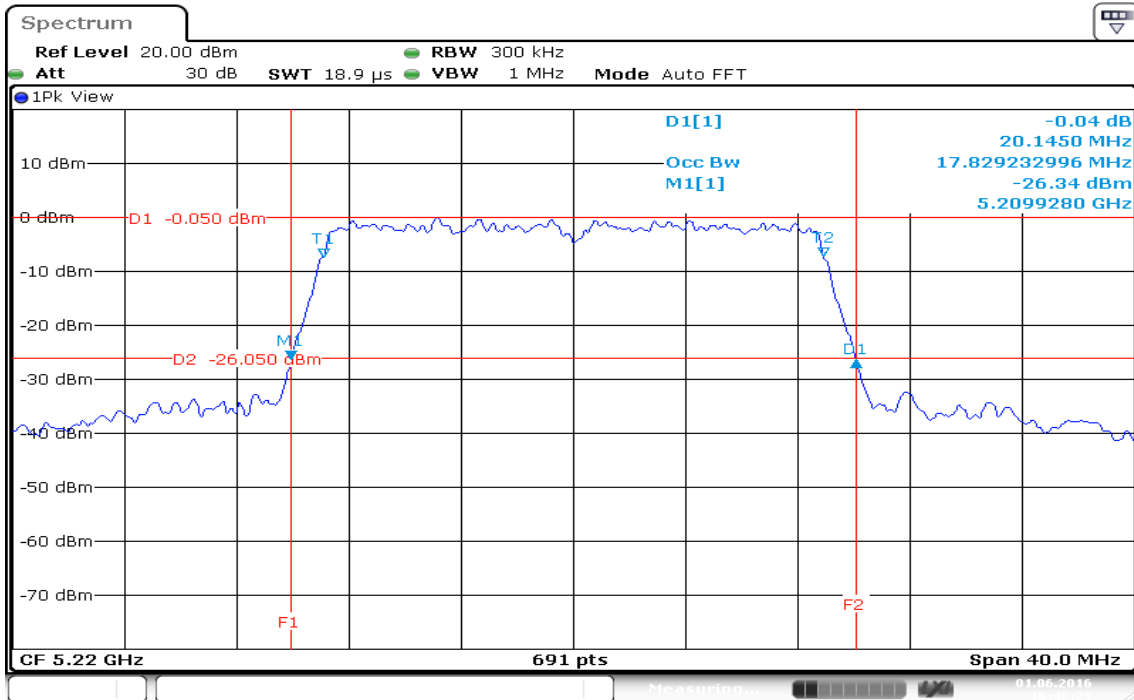
Date: 1.JUN.2016 11:25:22

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

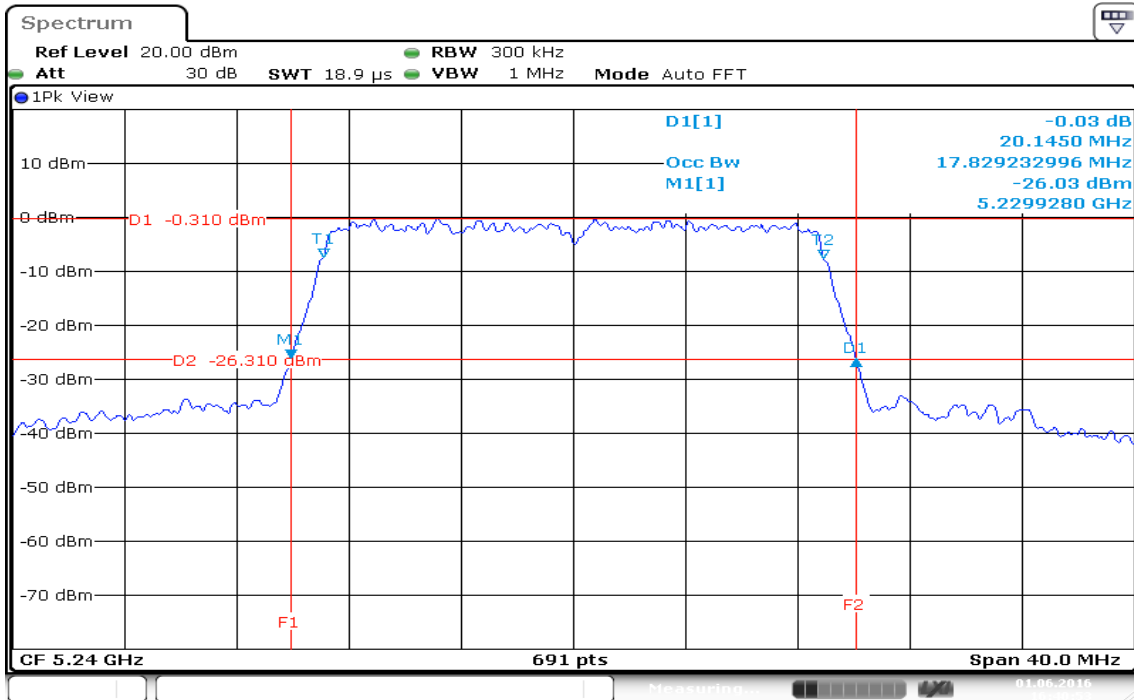
CH Low



CH Mid



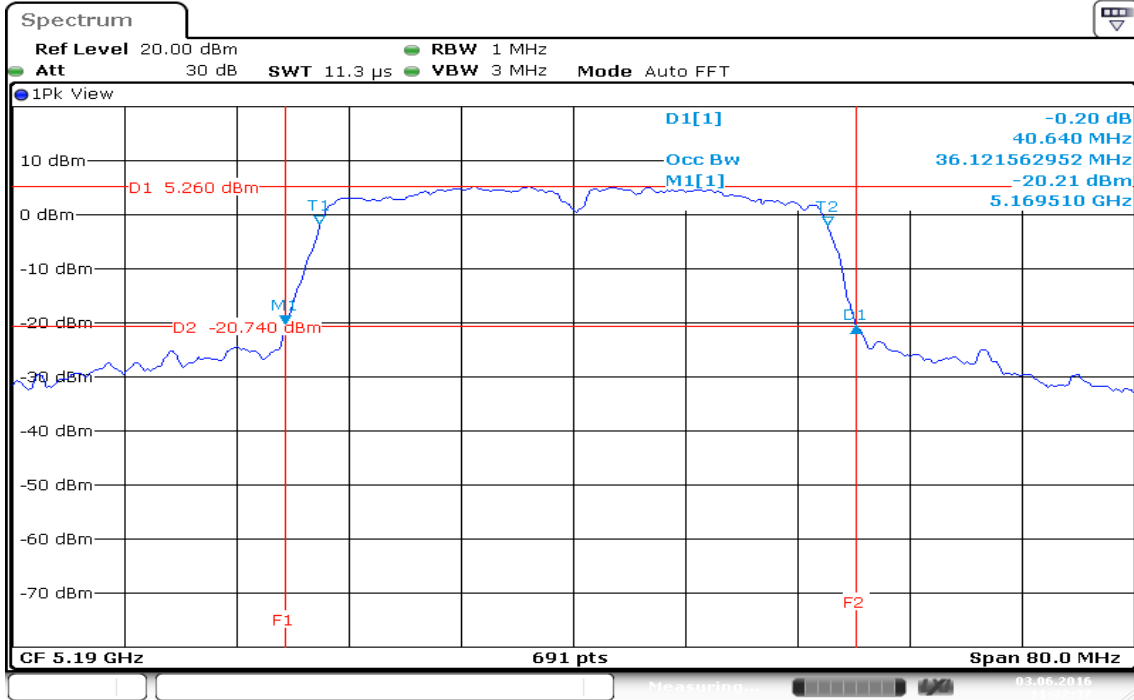
CH High



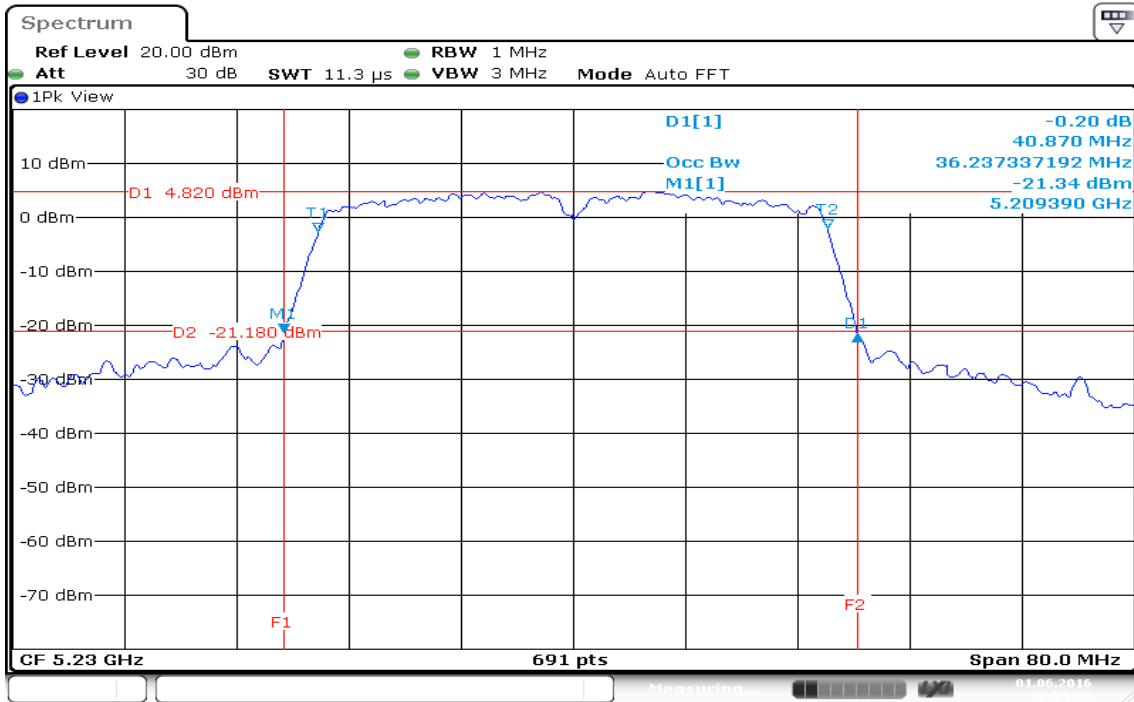
Date: 1.JUN.2016 16:40:53

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

CH Low

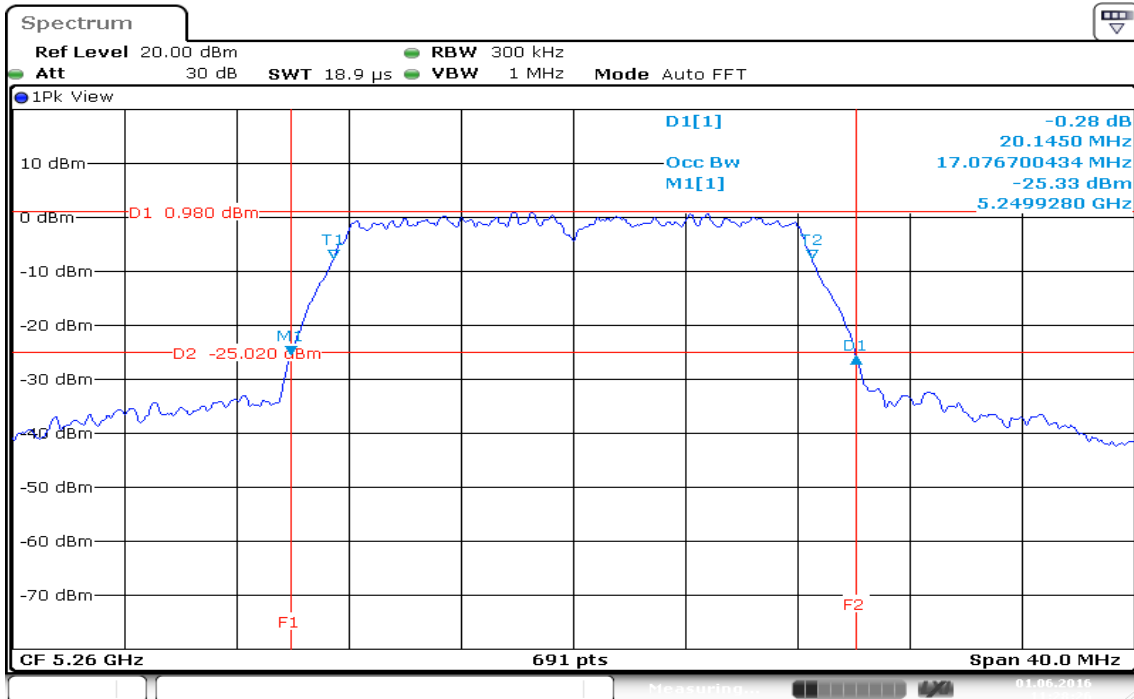


CH High

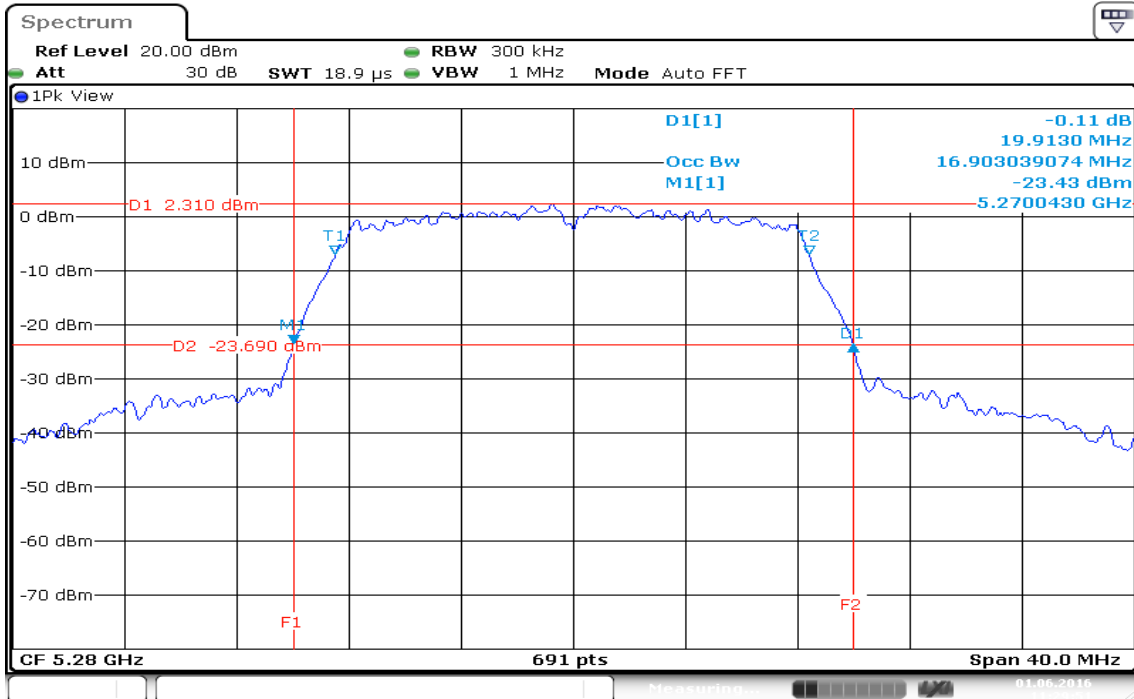


IEEE 802.11a mode / 5260 ~ 5320MHz

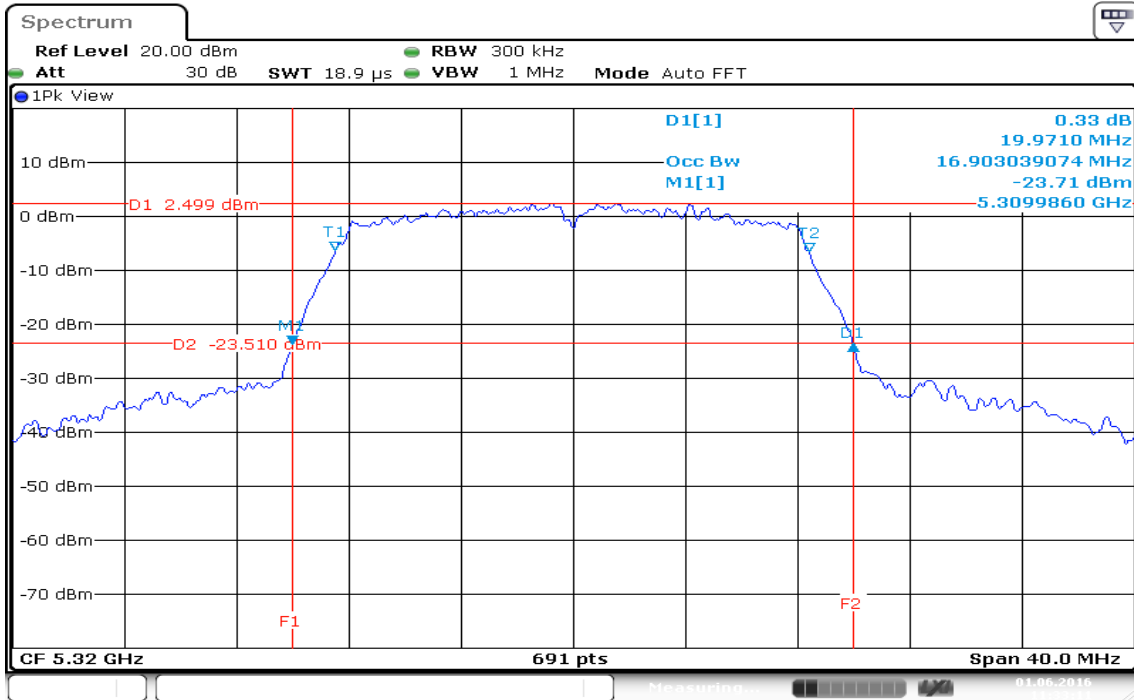
CH Low



CH Mid



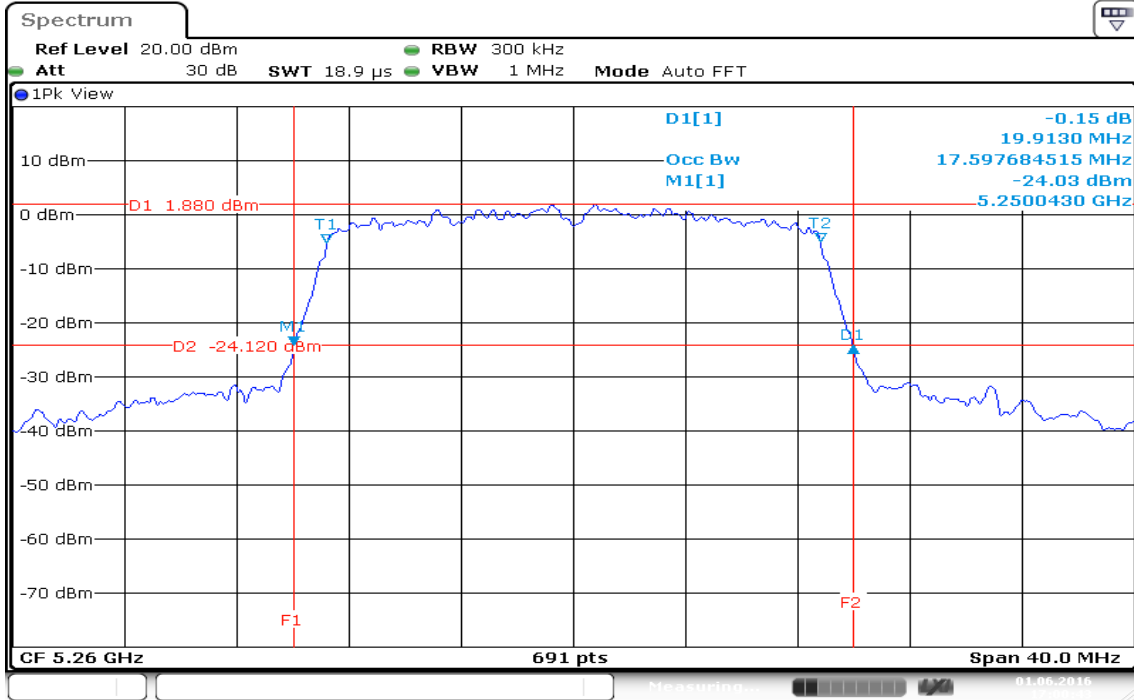
CH High



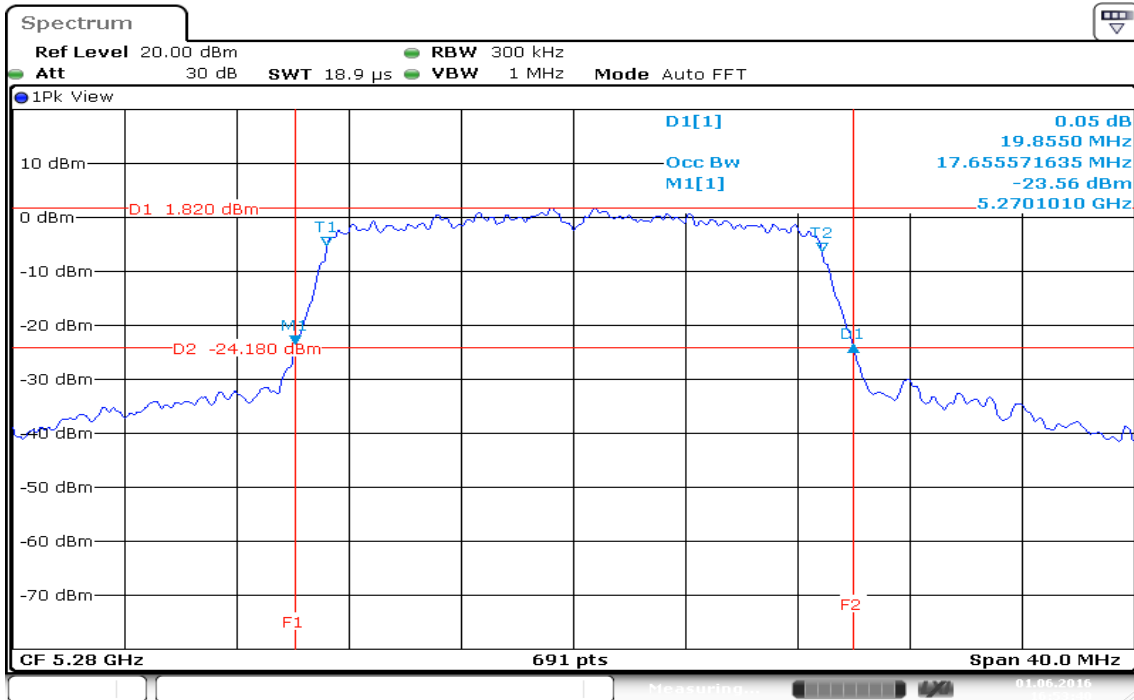
Date: 1.JUN.2016 11:33:11

IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

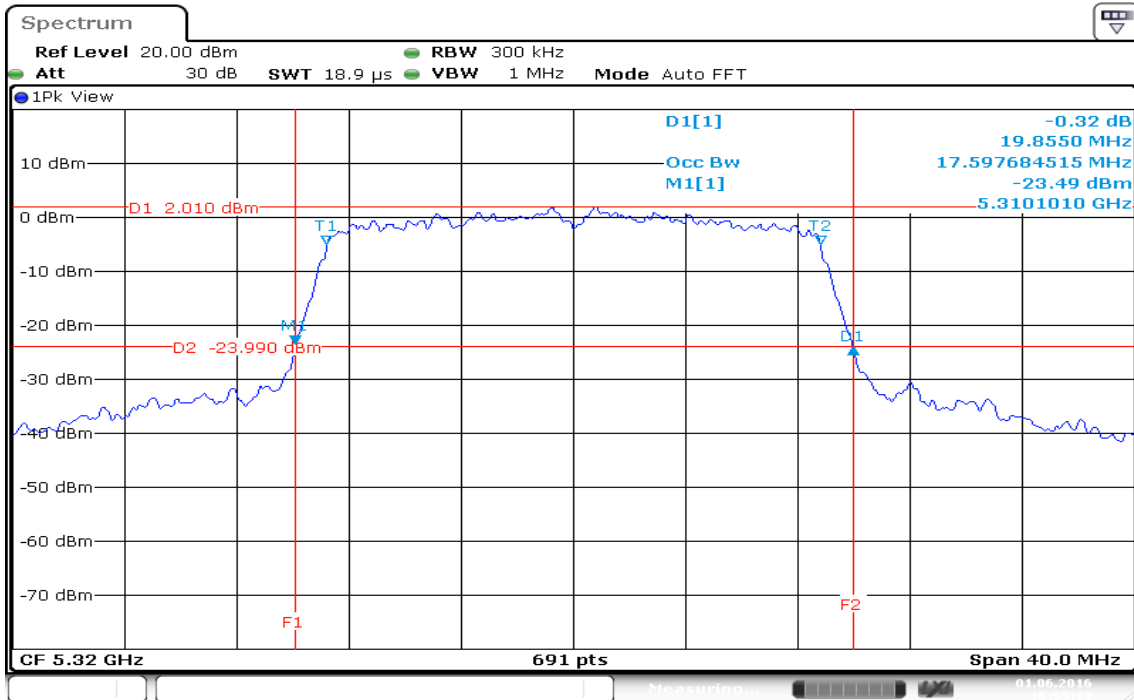
CH Low



CH Mid



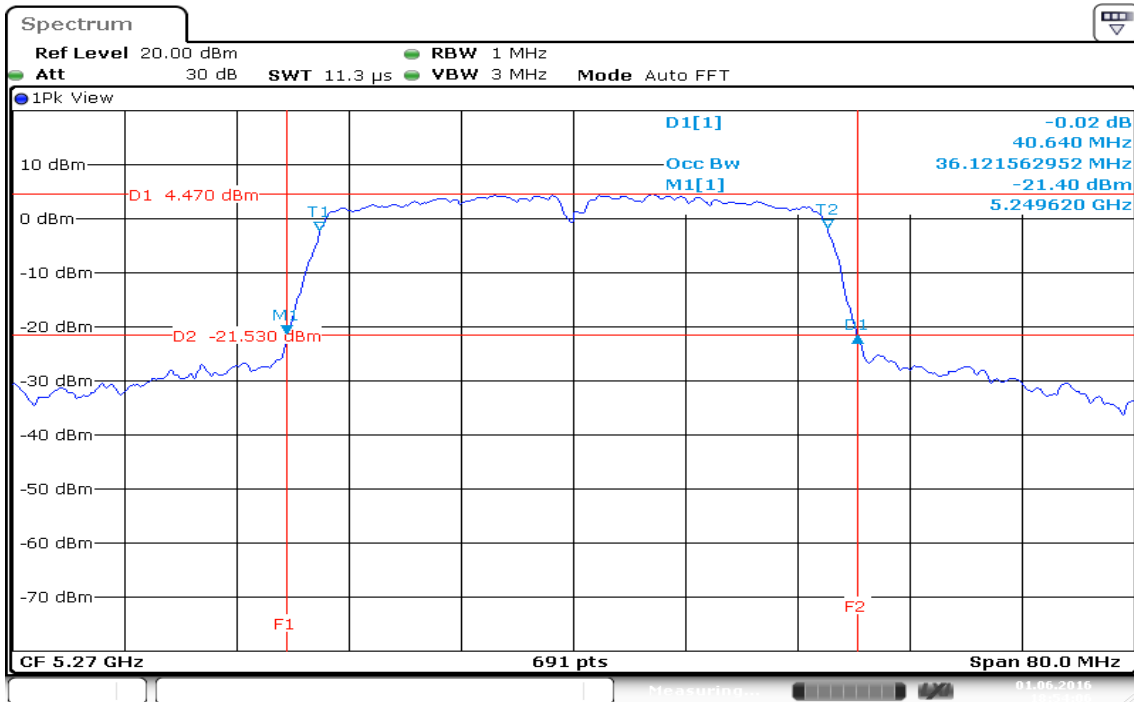
CH High



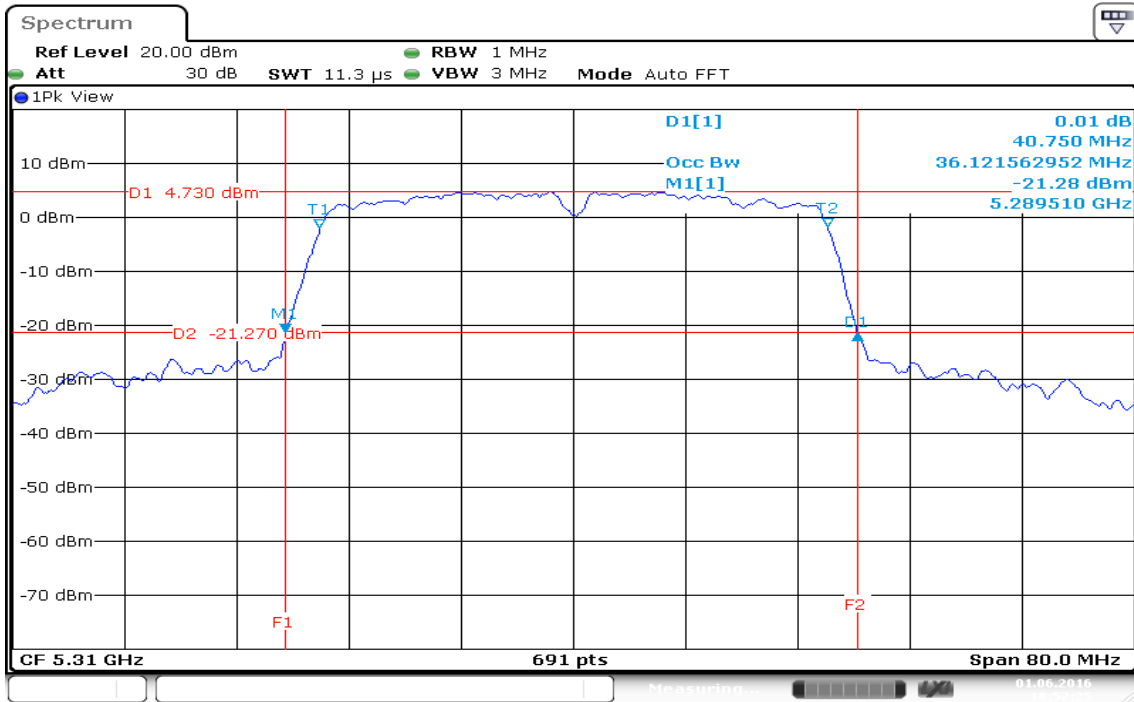
Date: 1.JUN.2016 16:55:14

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

CH Low

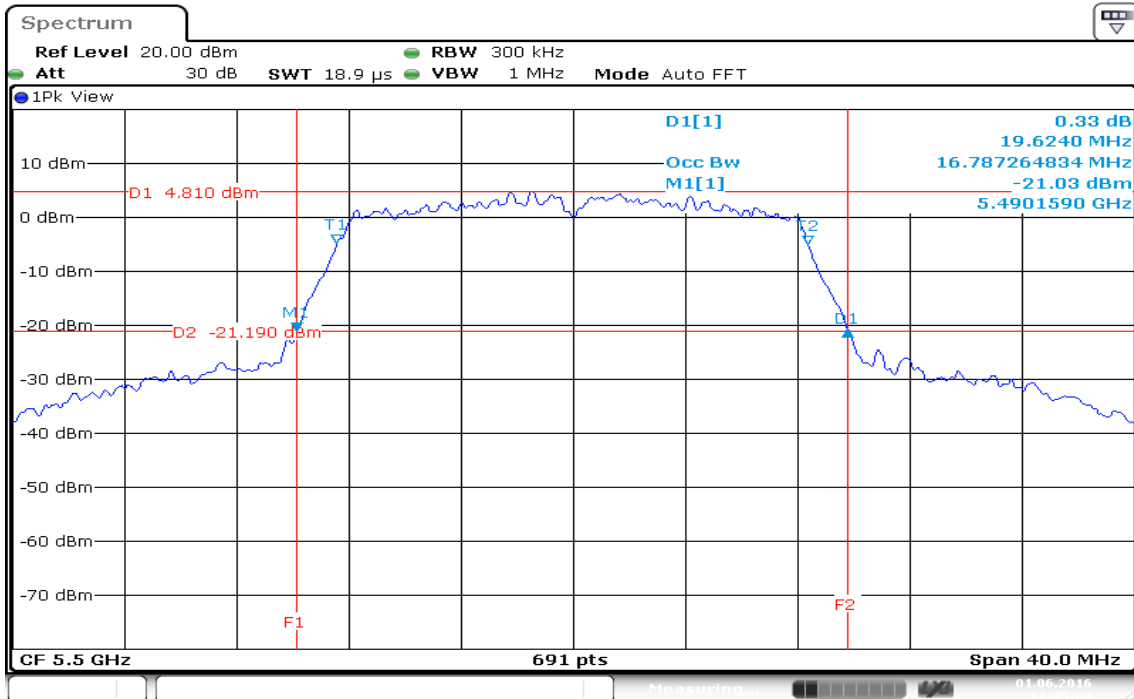


CH High

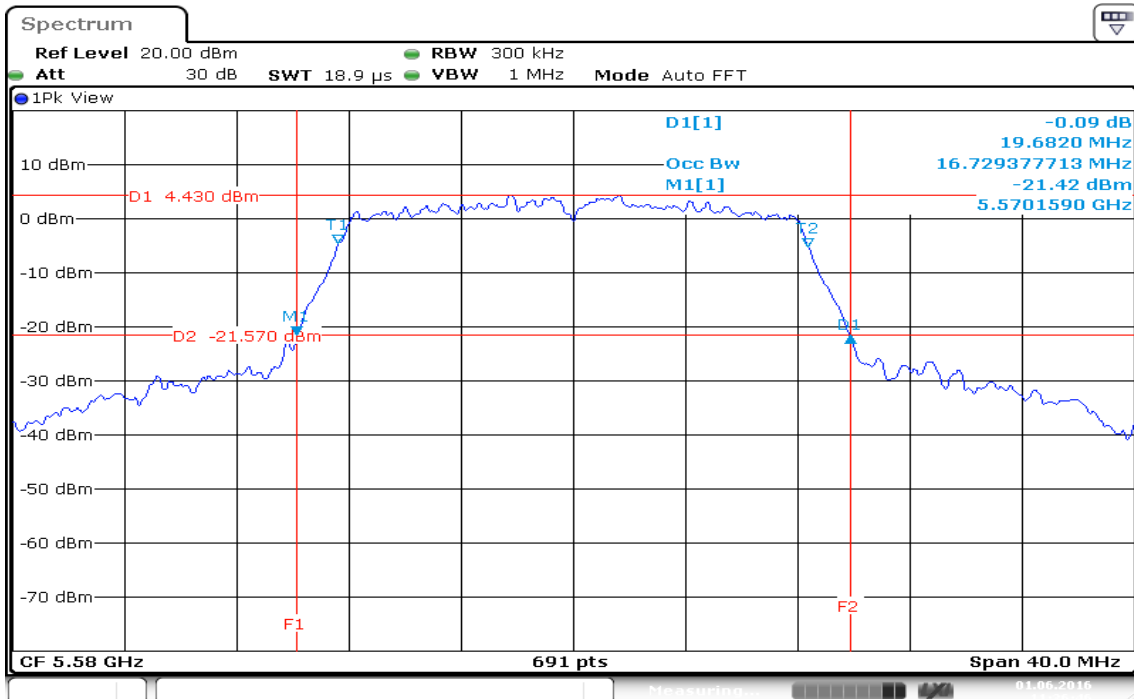


Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

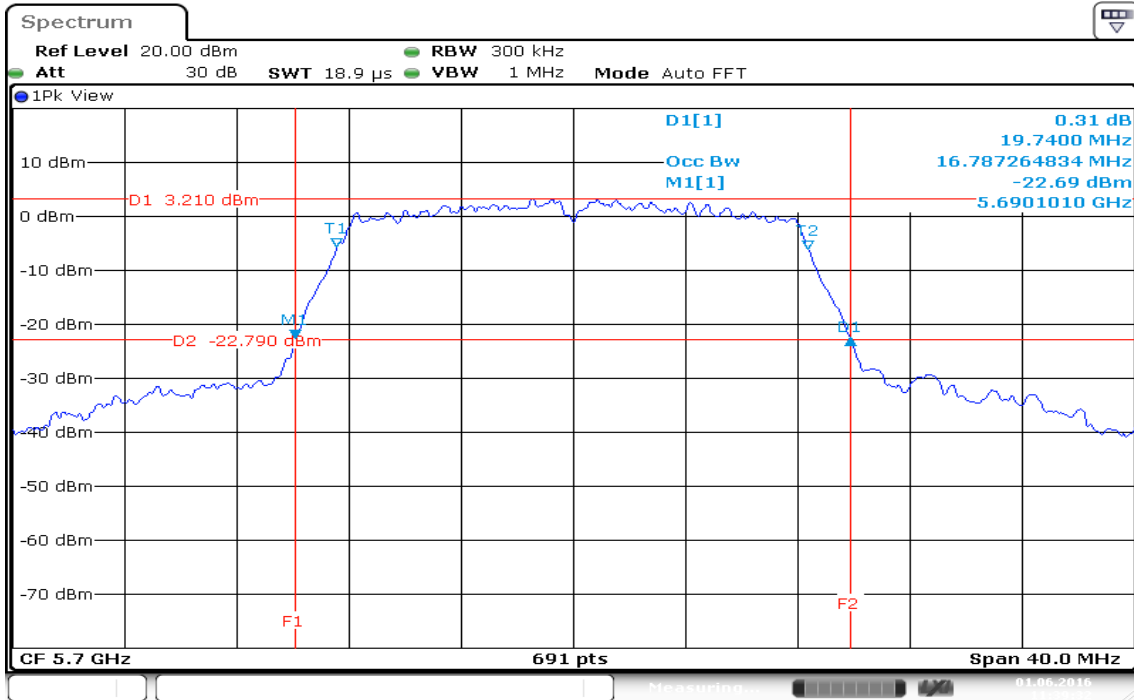
CH Low



CH Mid



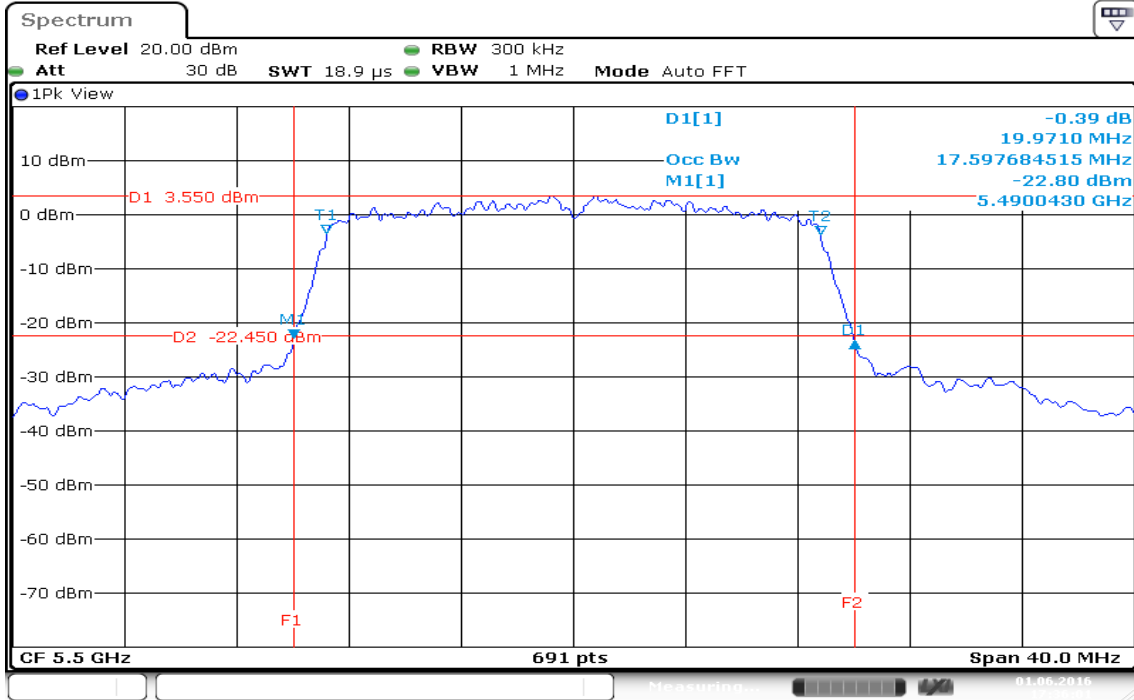
CH High



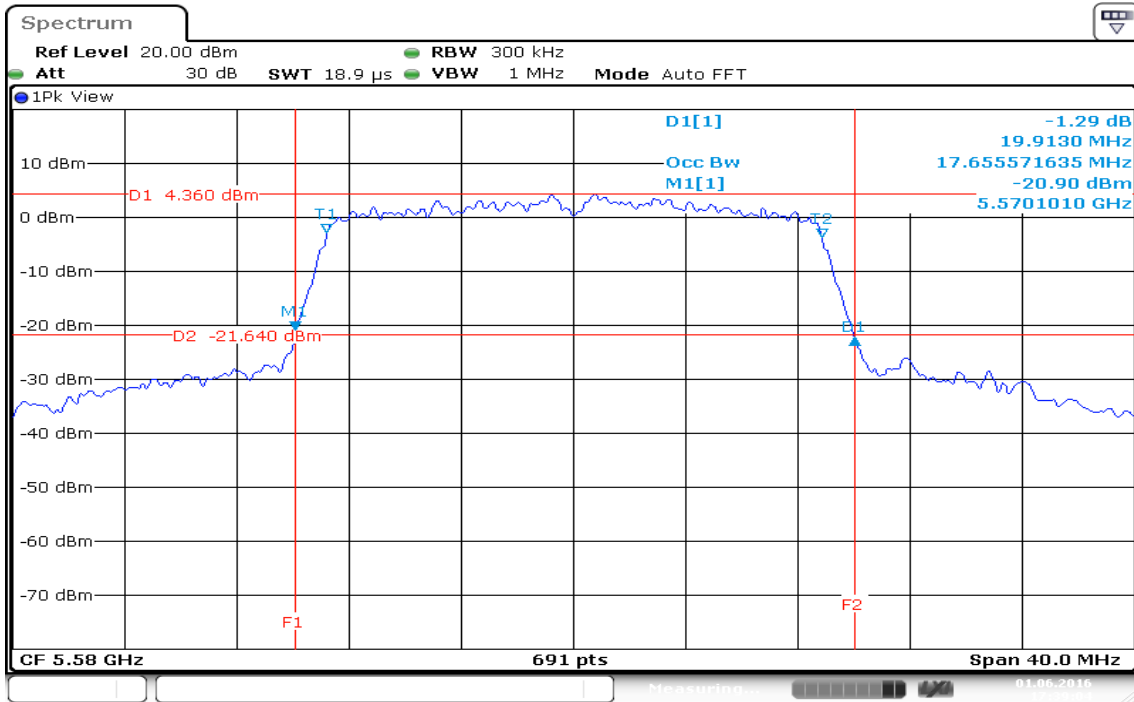
Date: 1.JUN.2016 11:39:32

IEEE 802.11n HT 20 MHz mode / 5500 ~ 5720MHz

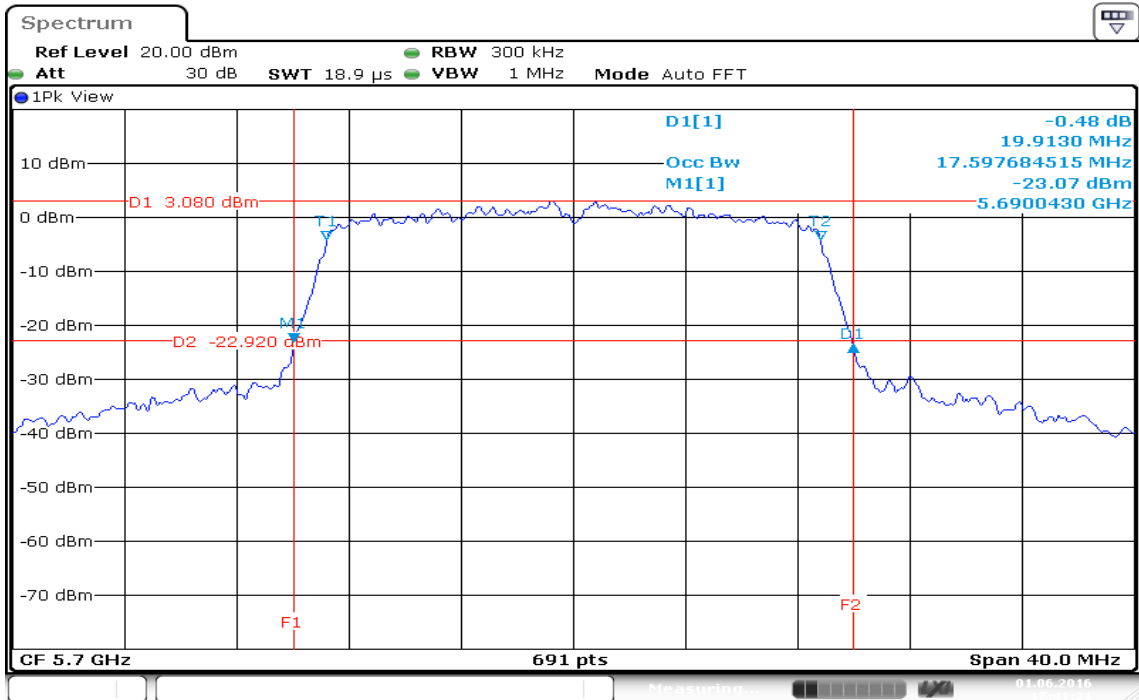
CH Low



CH Mid



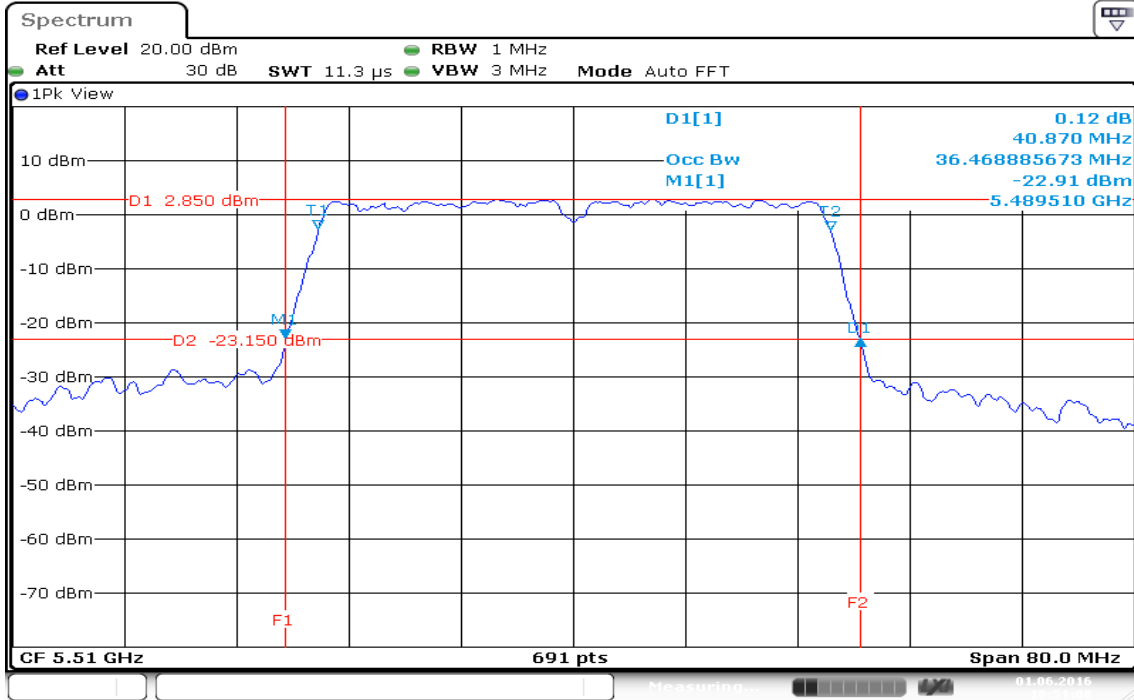
CH High



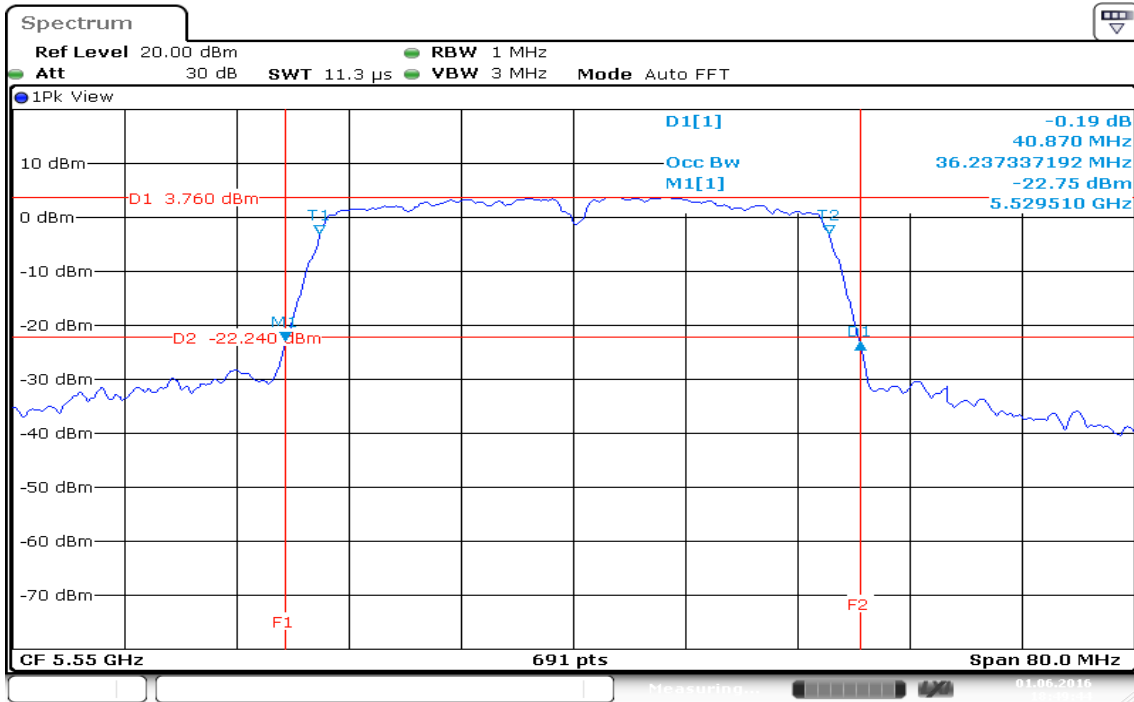
Date: 1.JUN.2016 17:41:22

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

CH Low



CH Mid



7.3 MAXIMUM CONDUCTED OUTPUT POWER

LIMIT

According to §15.407(a)

For the band 5.15-5.25 GHz, 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26 dB emission bandwidth in MHz.

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi

According to RSS-247,

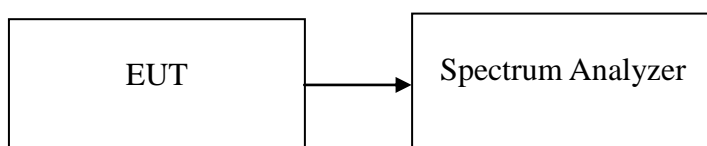
- (1) For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or 10 + 10 Log₁₀ B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
- (2) For the band 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or 11 + 10 Log₁₀ B, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 Log₁₀ B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

The peak power shall not exceed the limit as follow:

Test Configuration

The EUT was connected to a spectrum analyzer through a 50Ω RF cable.



TEST PROCEDURE

Set span to encompass the entire emission bandwidth (EBW) of the signal.

Set RBW = 1 MHz / Set VBW = 3 MHz.

Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to "free run". Trace average 100 traces in power averaging mode. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz

| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5180 | *11.53 | 0.0142 | 24.00 |
| Mid | 5220 | 10.54 | 0.0113 | 24.00 |
| High | 5240 | 10.27 | 0.0106 | 24.00 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5180 | *12.36 | 0.0172 | 24.00 |
| Mid | 5220 | 10.65 | 0.0116 | 24.00 |
| High | 5240 | 9.87 | 0.0097 | 24.00 |

Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5190 | *13.08 | 0.0203 | 24.00 |
| High | 5230 | 12.41 | 0.0174 | 24.00 |

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5260 | 9.93 | 0.0098 | 24.00 |
| Mid | 5280 | 10.02 | 0.0100 | 24.00 |
| High | 5320 | *10.28 | 0.0107 | 24.00 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5260 | 10.38 | 0.0109 | 24.00 |
| Mid | 5280 | 10.47 | 0.0111 | 24.00 |
| High | 5320 | *10.52 | 0.0113 | 24.00 |

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5270 | 12.71 | 0.0187 | 24.00 |
| High | 5310 | *12.83 | 0.0192 | 24.00 |

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5500 | 12.28 | 0.0169 | 24.00 |
| Mid | 5580 | 12.09 | 0.0162 | 24.00 |
| High | 5700 | *12.48 | 0.0177 | 24.00 |

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5500 | 12.25 | 0.0168 | 24.00 |
| Mid | 5580 | 12.63 | 0.0183 | 24.00 |
| High | 5700 | *12.74 | 0.0188 | 24.00 |

Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

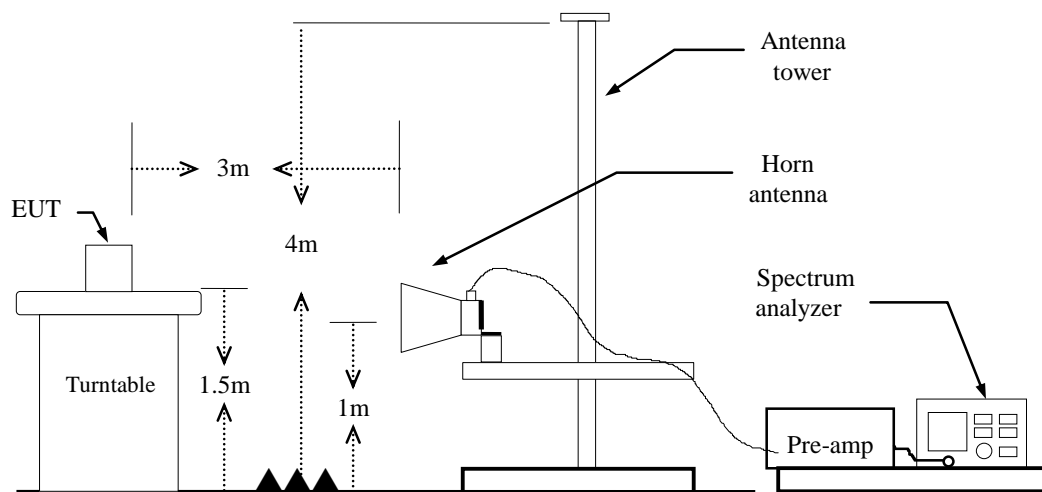
| Channel | Frequency (MHz) | Maximum Output Power (dBm) | Maximum Output Power (W) | Limit (dBm) |
|---------|-----------------|----------------------------|--------------------------|-------------|
| Low | 5510 | 12.34 | 0.0171 | 24.00 |
| Mid | 5550 | *12.59 | 0.0182 | 24.00 |
| High | 5670 | 12.48 | 0.0177 | 24.00 |

7.4 BAND EDGES MEASUREMENT

LIMIT

According to §15.407 & RSS-247 §, in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz,
if duty cycle $\geq 98\%$, VBW=10Hz.
if duty cycle $< 98\%$ VBW=1/T.
IEEE 802.11a mode: $\geq 98\%$, VBW=10Hz
IEEE 802.11n HT 20 MHz mode: $\geq 98\%$, VBW=10Hz
IEEE 802.11n HT 40 MHz mode: $\geq 98\%$, VBW=10Hz
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.
6. Result = Spectrum Reading + cable loss(spectrum to Amp) - Amp Gain + Cable loss(Amp to receive Ant)+ Receive Ant

For Un-restricted Band Emissions

The peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

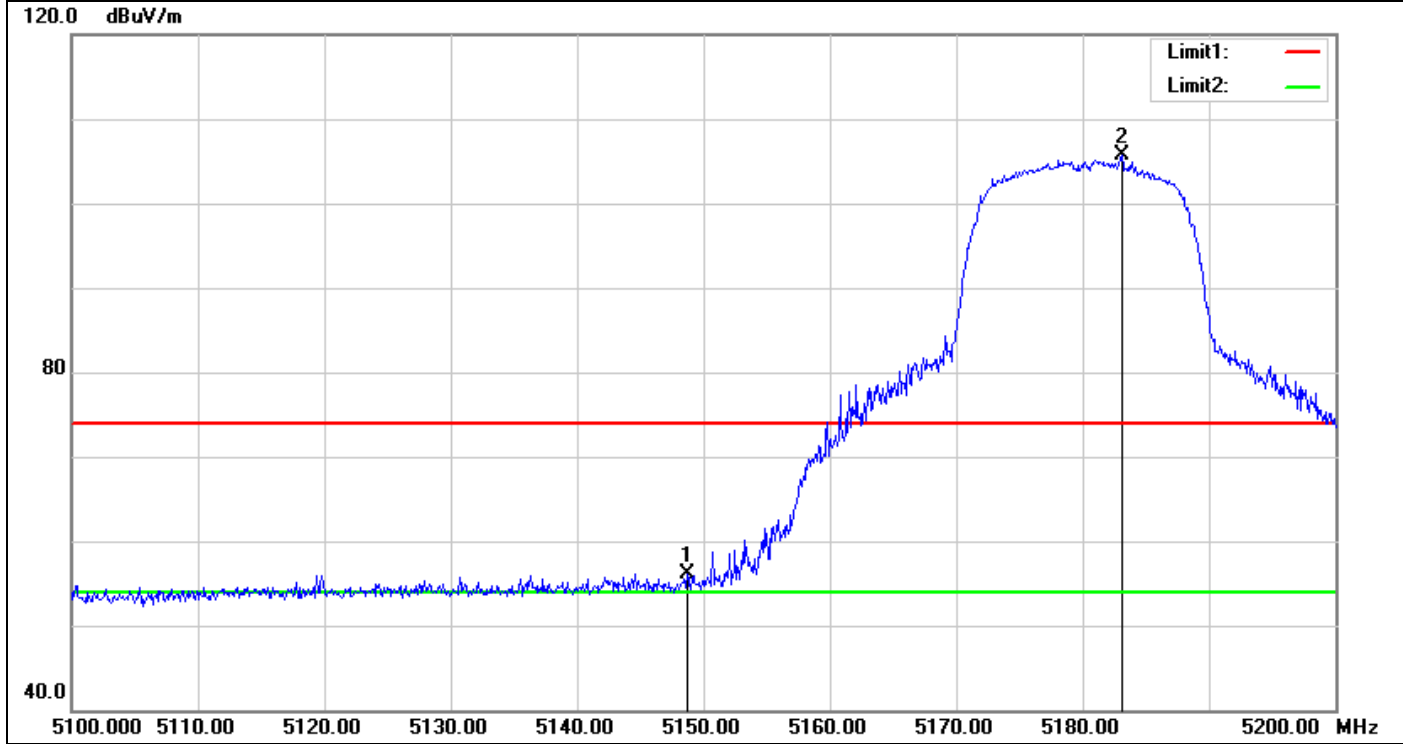
TEST RESULTS

Refer to attach spectrum analyzer data chart.

U-NII-1

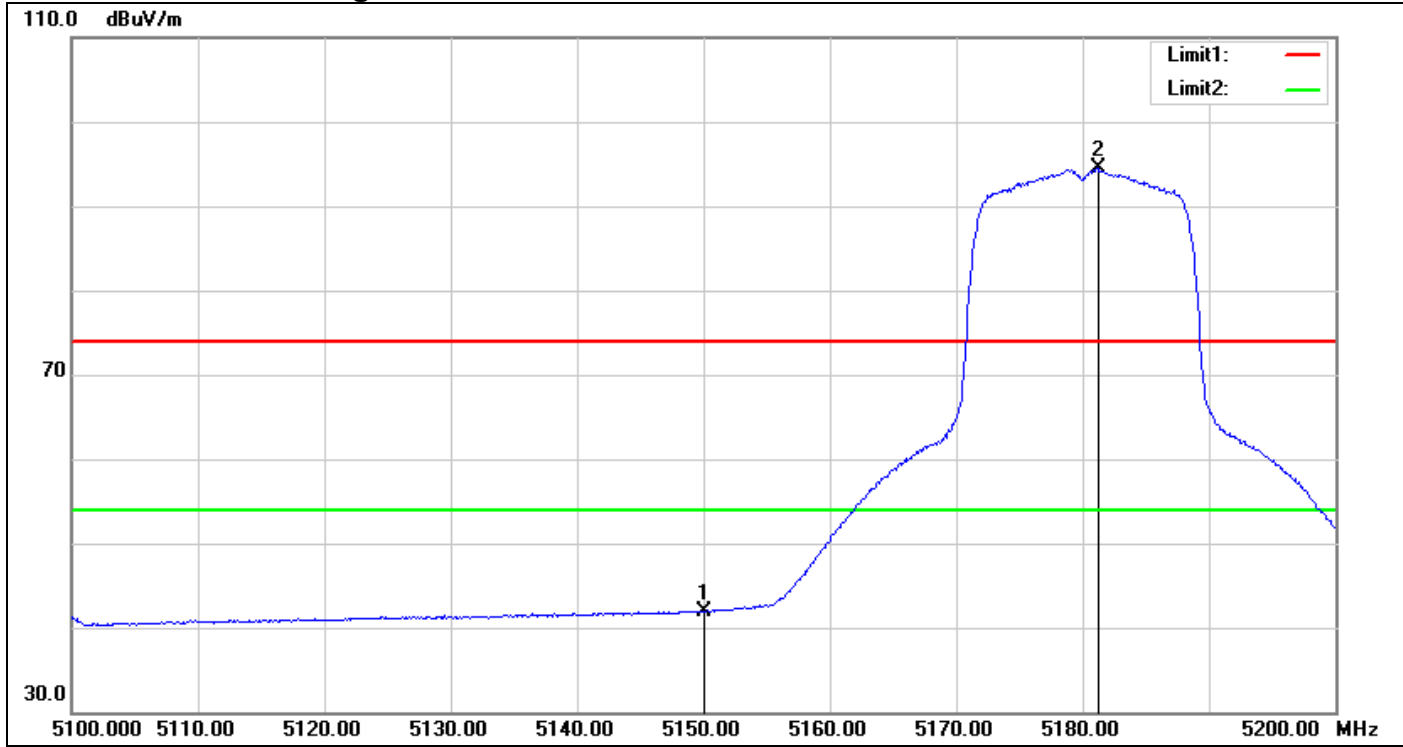
IEEE 802.11a Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5148.700 | 53.01 | 3.03 | 56.04 | 74.00 | -17.96 | peak |
| 2 | 5183.100 | 101.78 | 4.00 | 105.78 | 74.00 | 31.78 | peak |

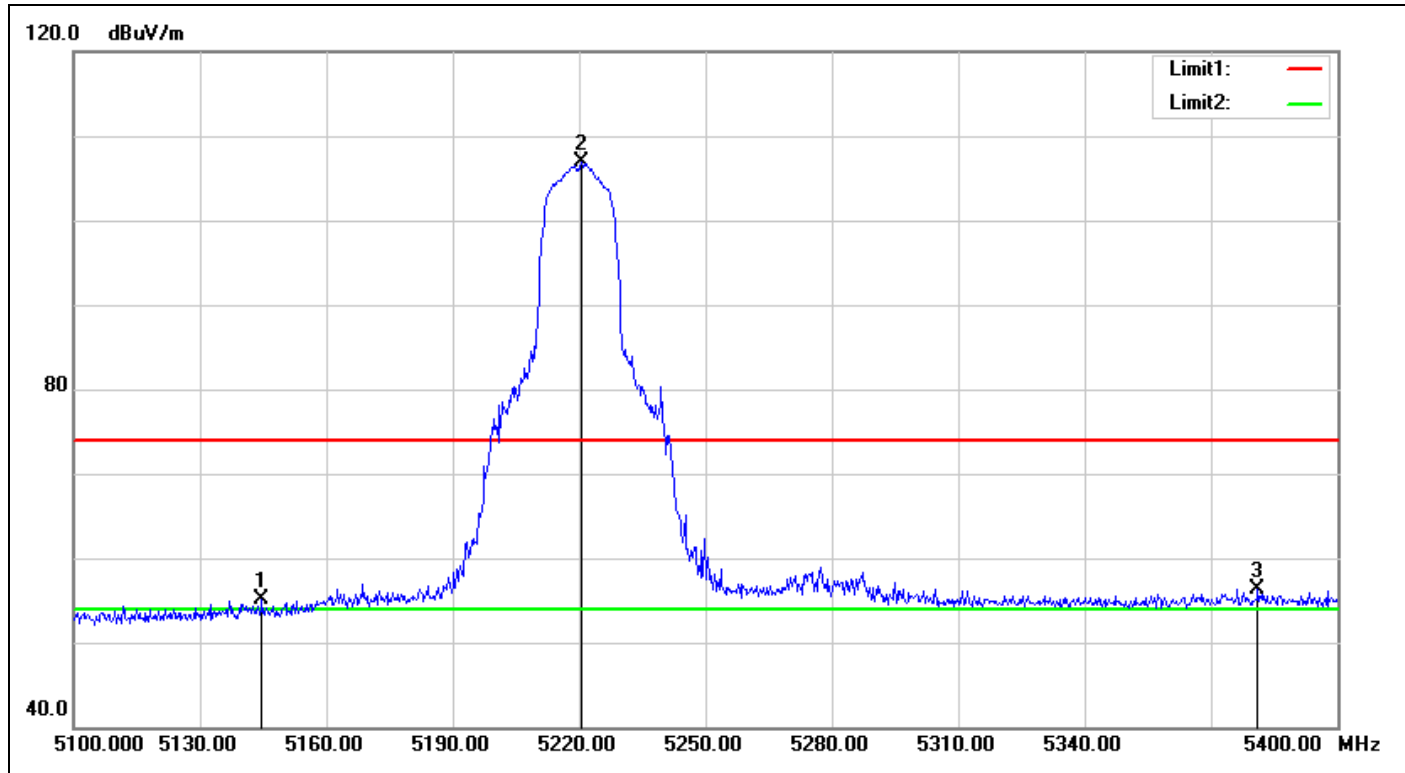
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5150.000 | 38.90 | 3.04 | 41.94 | 54.00 | -12.06 | AVG |
| 2 | 5181.200 | 90.51 | 3.94 | 94.45 | 54.00 | 40.45 | AVG |

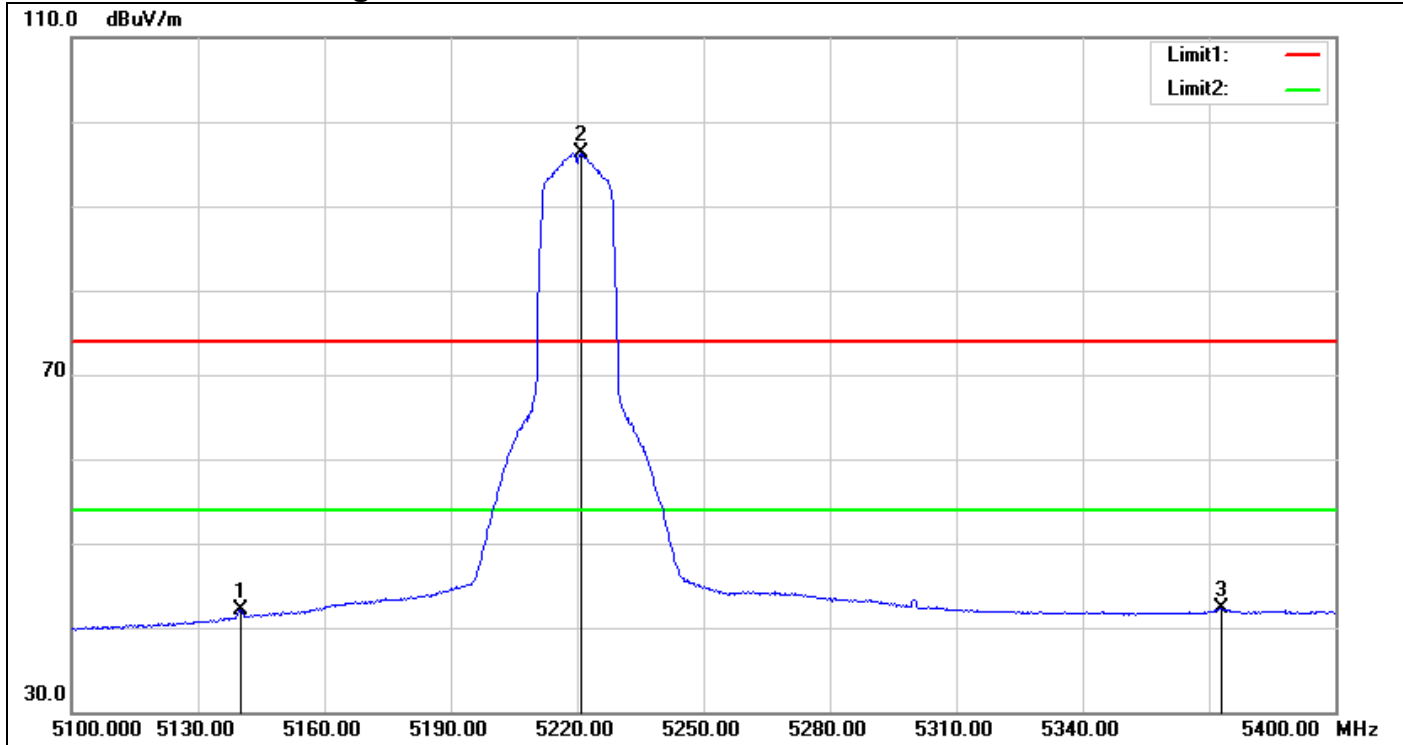
IEEE 802.11a Mode / CH Mid

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5144.700 | 52.06 | 3.00 | 55.06 | 74.00 | -18.94 | peak |
| 2 | 5220.600 | 102.30 | 4.56 | 106.86 | 74.00 | 32.86 | peak |
| 3 | 5381.100 | 50.78 | 5.57 | 56.35 | 74.00 | -17.65 | peak |

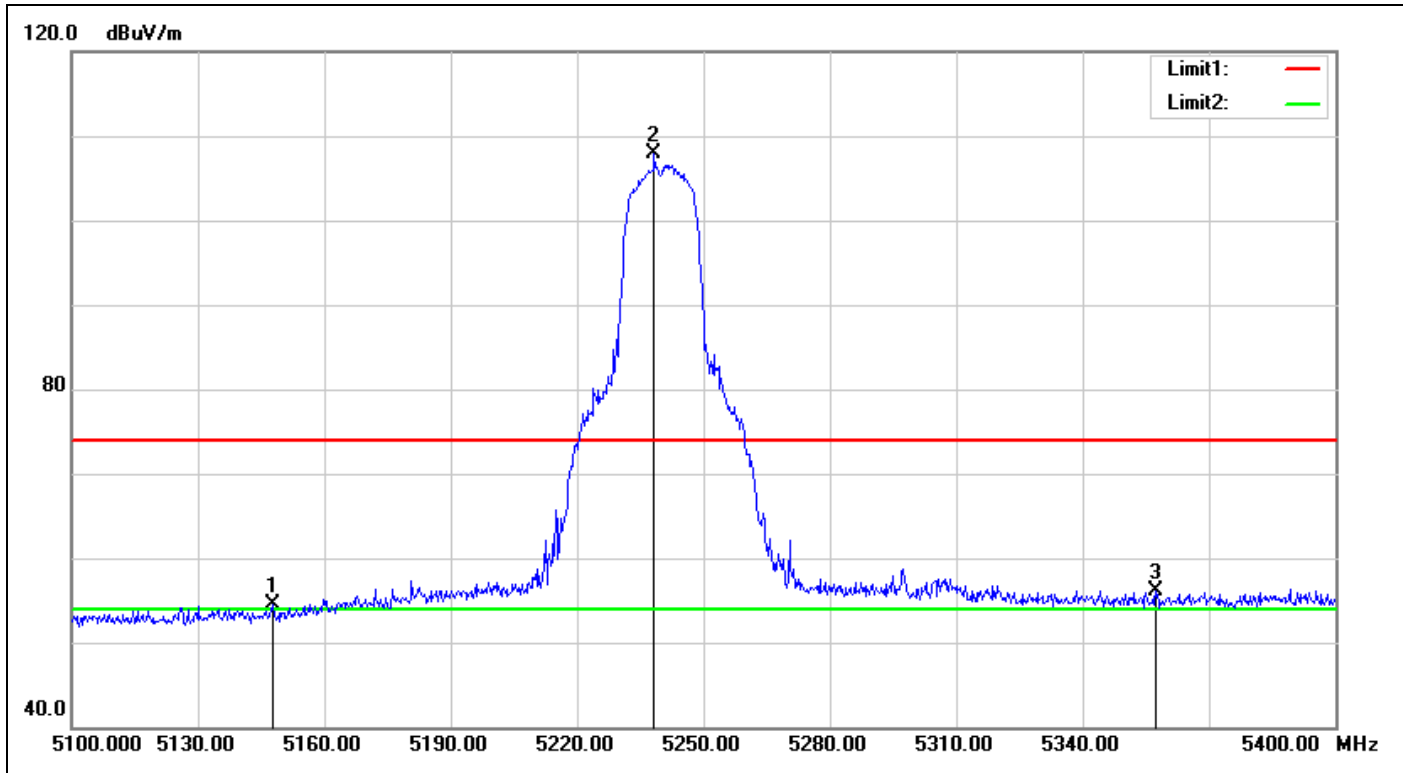
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5140.200 | 39.14 | 2.97 | 42.11 | 54.00 | -11.89 | AVG |
| 2 | 5220.900 | 91.78 | 4.56 | 96.34 | 54.00 | 42.34 | AVG |
| 3 | 5373.000 | 36.77 | 5.50 | 42.27 | 54.00 | -11.73 | AVG |

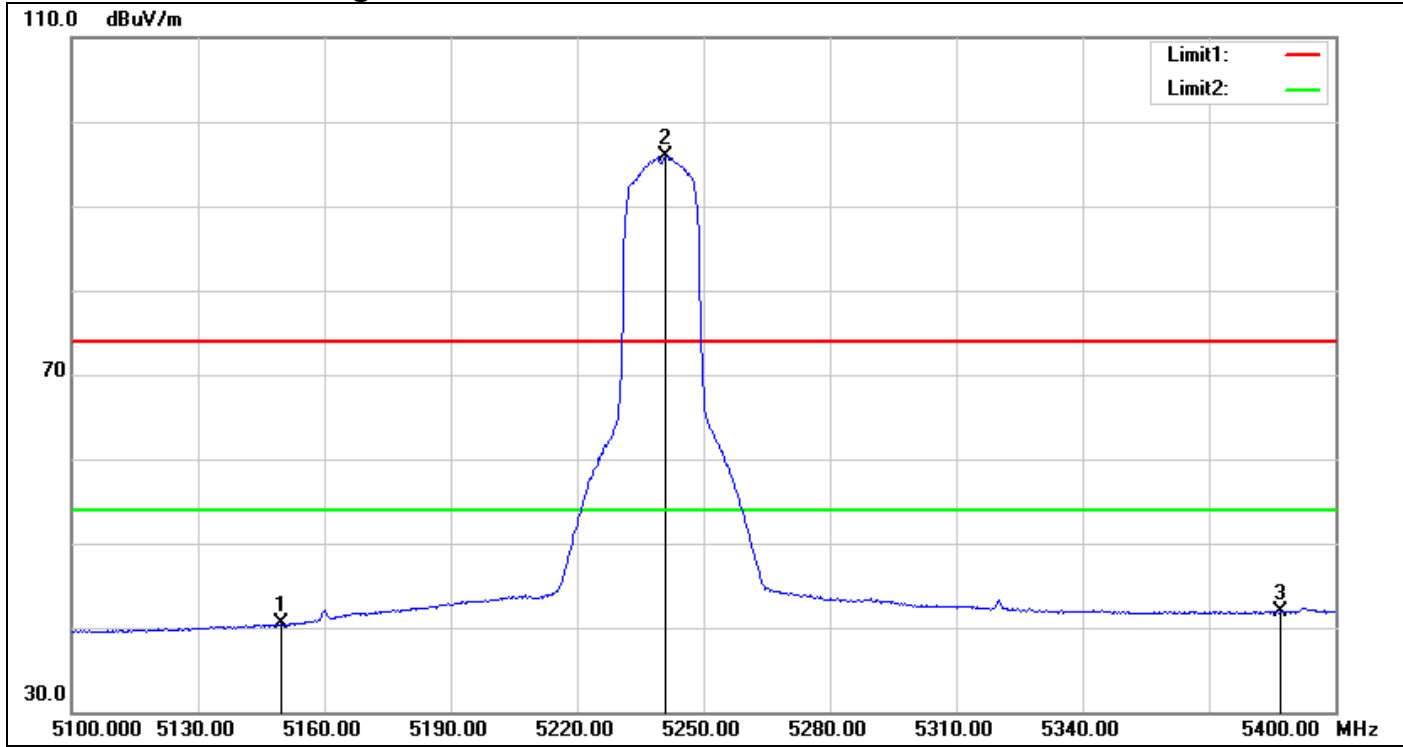
IEEE 802.11a Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1 | 5147.700 | 51.49 | 3.02 | 54.51 | 74.00 | -19.49 | peak |
| 2 | 5238.300 | 103.27 | 4.62 | 107.89 | 74.00 | 33.89 | peak |
| 3 | 5357.400 | 50.64 | 5.37 | 56.01 | 74.00 | -17.99 | peak |

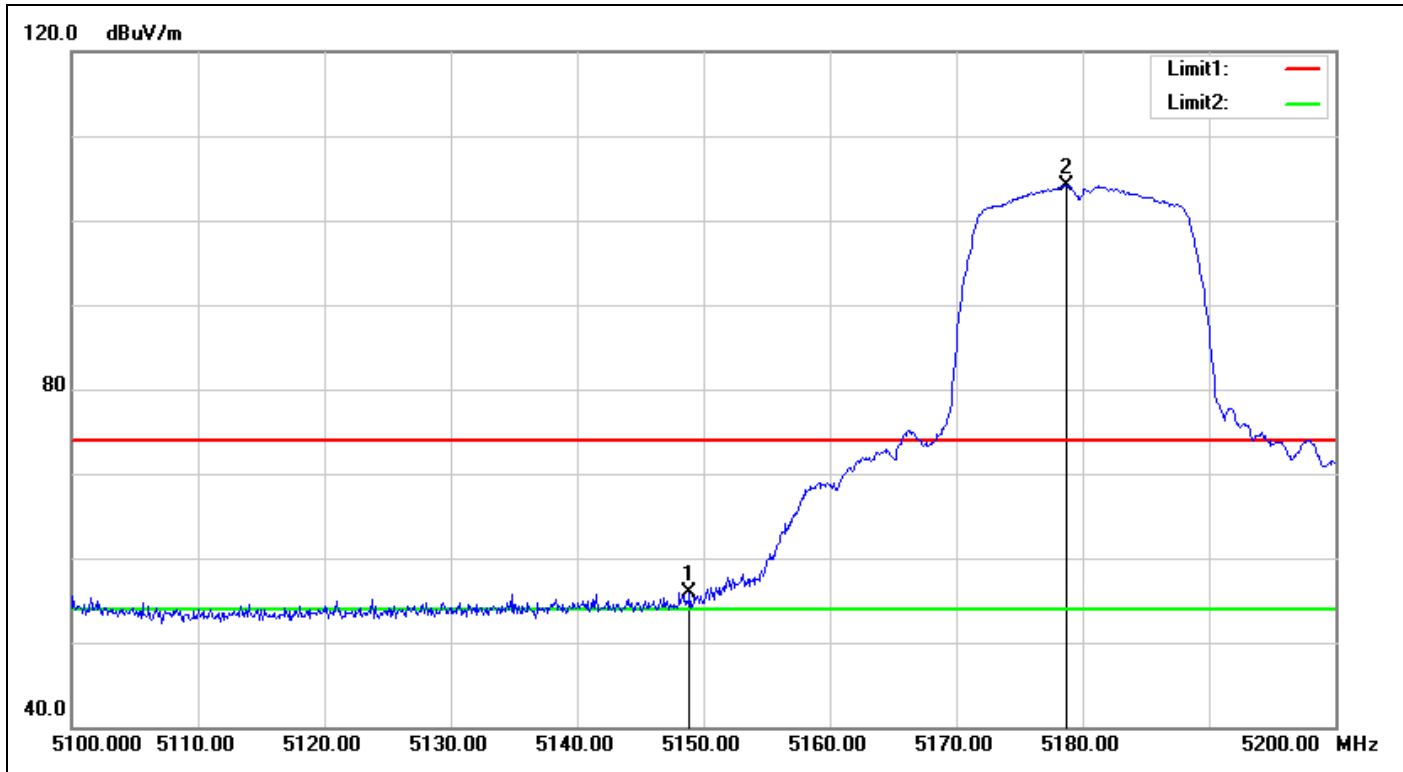
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5149.800 | 37.37 | 3.04 | 40.41 | 54.00 | -13.59 | AVG |
| 2 | 5241.000 | 91.33 | 4.63 | 95.96 | 54.00 | 41.96 | AVG |
| 3 | 5387.100 | 36.35 | 5.61 | 41.96 | 54.00 | -12.04 | AVG |

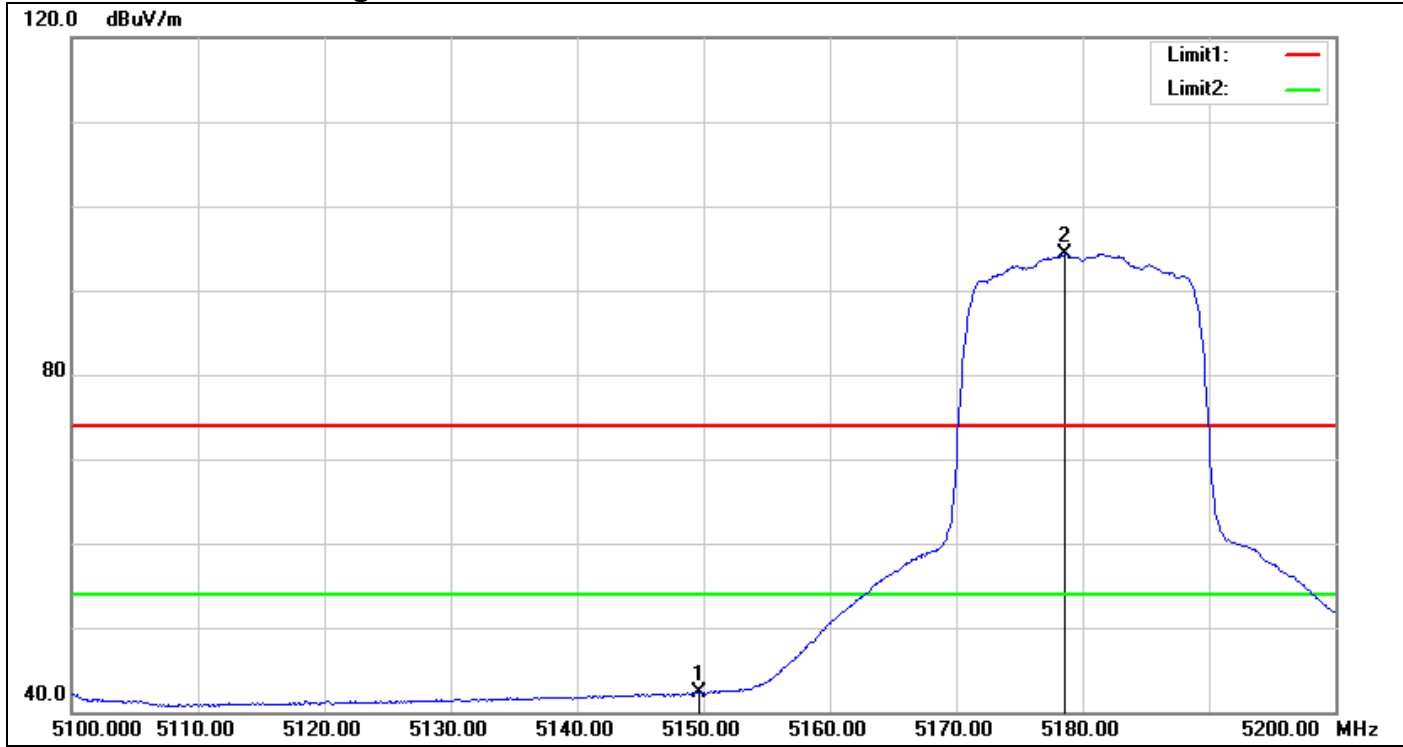
IEEE 802.11n HT20 MHz Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 5148.900 | 52.93 | 3.03 | 55.96 | 74.00 | -18.04 | peak |
| 2 | 5178.700 | 100.26 | 3.87 | 104.13 | 74.00 | 30.13 | peak |

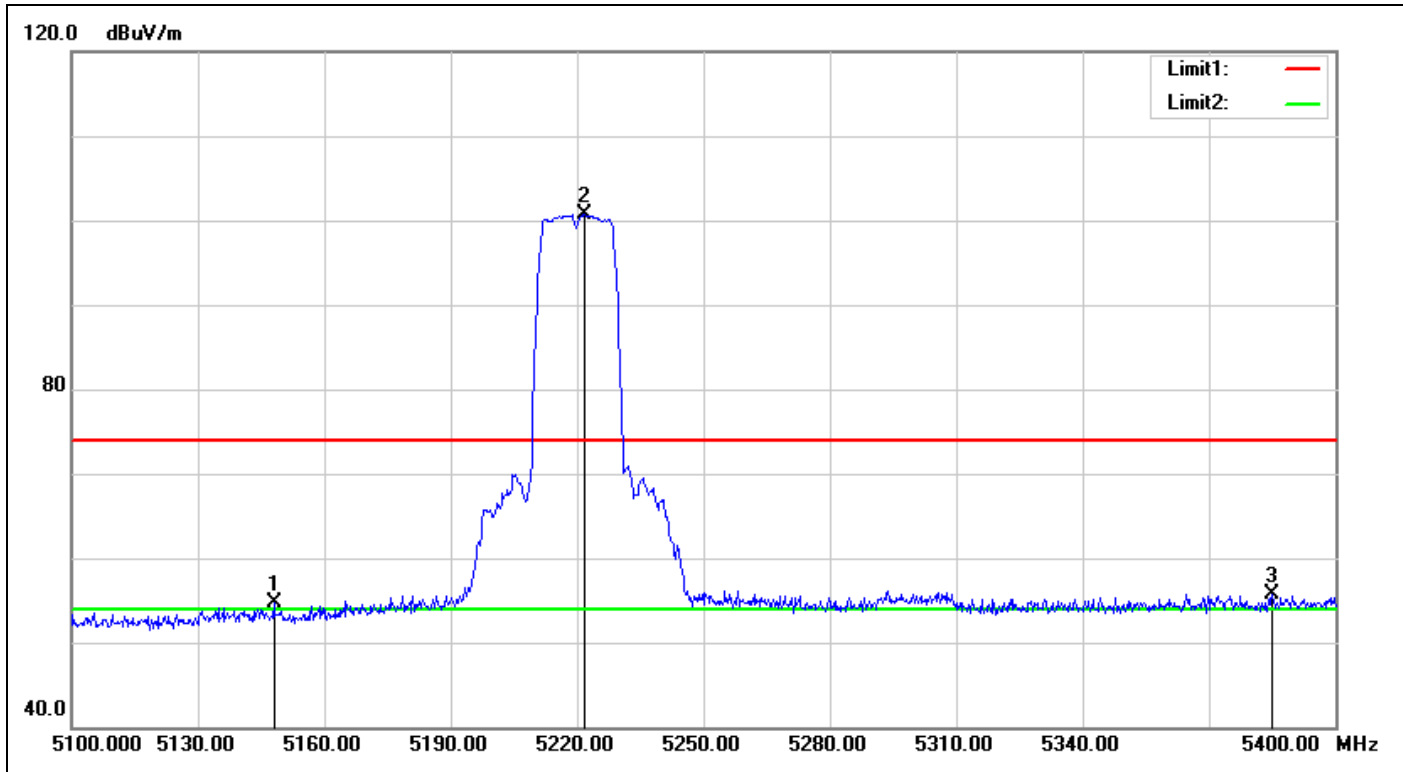
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5149.700 | 39.30 | 3.04 | 42.34 | 54.00 | -11.66 | AVG |
| 2 | 5178.600 | 90.44 | 3.87 | 94.31 | 54.00 | 40.31 | AVG |

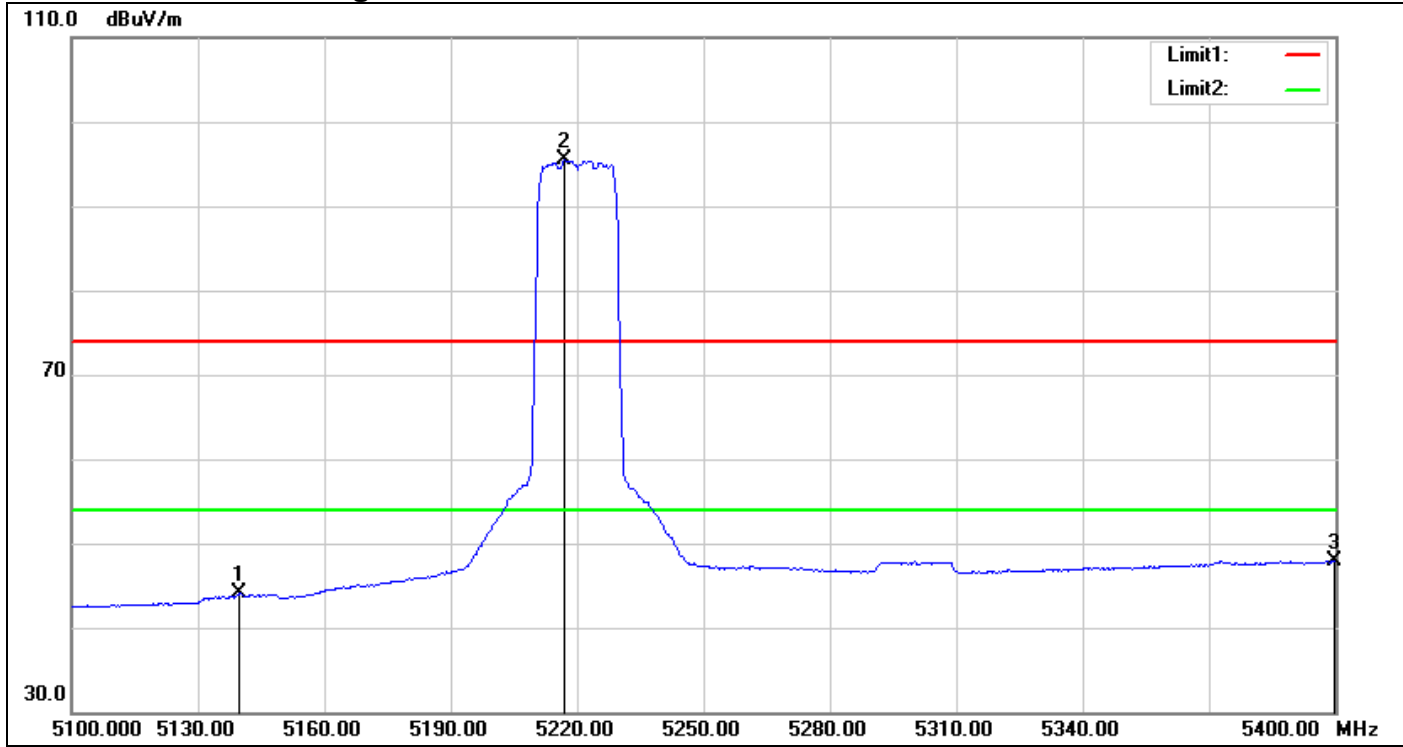
IEEE 802.11n HT20 MHz Mode / CH Mid

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 5148.000 | 51.75 | 3.03 | 54.78 | 74.00 | -19.22 | peak |
| 2 | 5221.800 | 96.16 | 4.56 | 100.72 | 74.00 | 26.72 | peak |
| 3 | 5385.000 | 50.09 | 5.60 | 55.69 | 74.00 | -18.31 | peak |

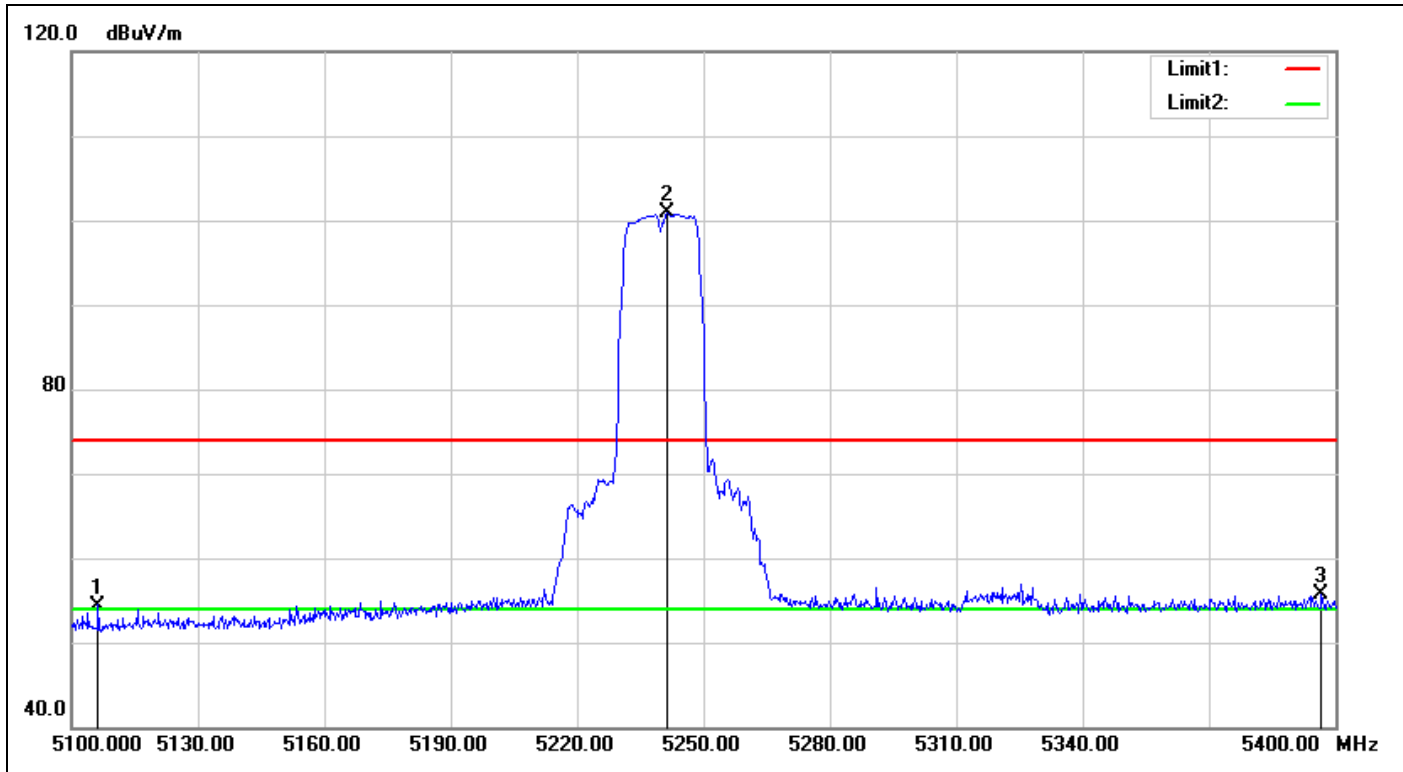
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1 | 5139.900 | 41.09 | 2.97 | 44.06 | 54.00 | -9.94 | AVG |
| 2 | 5217.000 | 90.89 | 4.55 | 95.44 | 54.00 | 41.44 | AVG |
| 3 | 5399.700 | 42.22 | 5.72 | 47.94 | 54.00 | -6.06 | AVG |

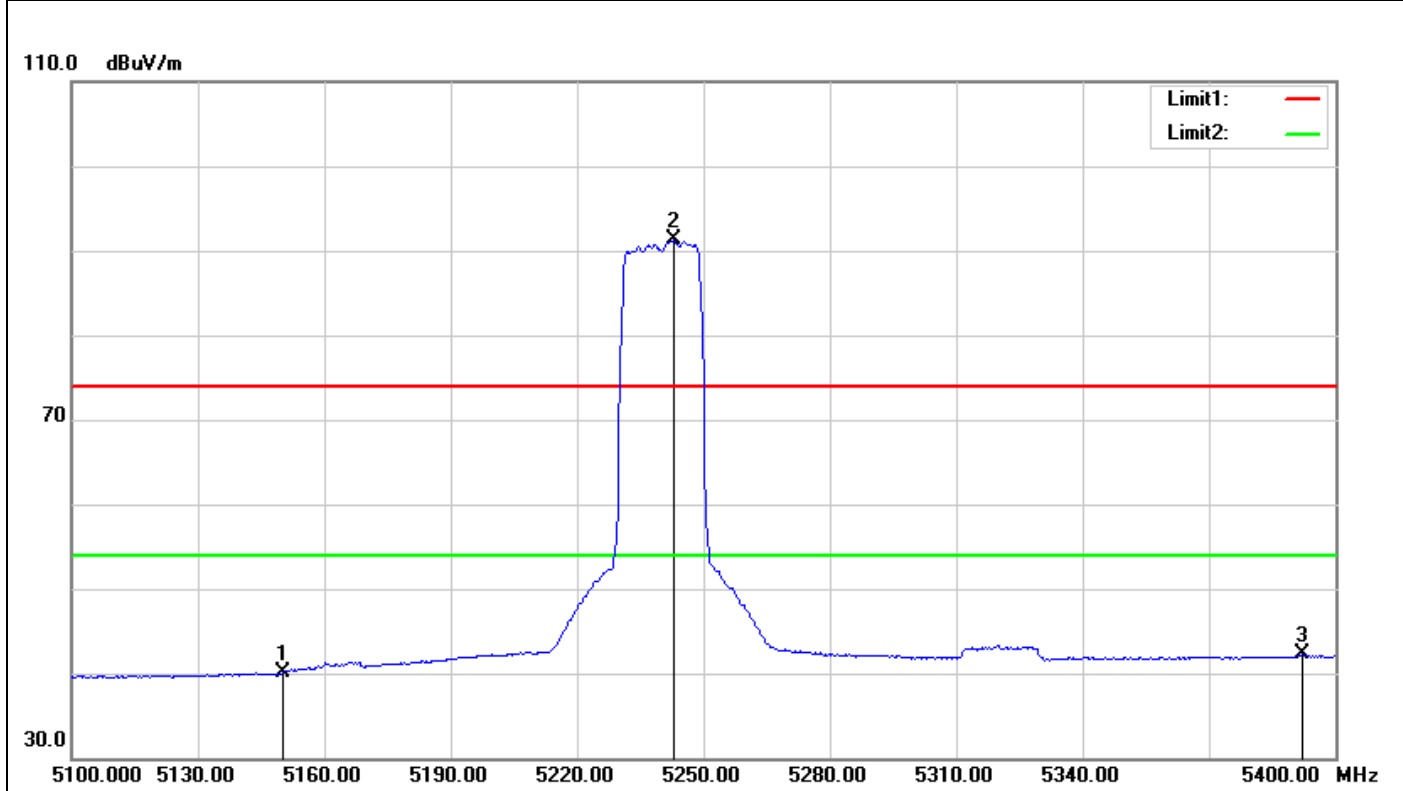
IEEE 802.11n HT20 MHz Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5106.300 | 51.66 | 2.74 | 54.40 | 74.00 | -19.60 | peak |
| 2 | 5241.300 | 96.18 | 4.63 | 100.81 | 74.00 | 26.81 | peak |
| 3 | 5396.700 | 49.97 | 5.69 | 55.66 | 74.00 | -18.34 | peak |

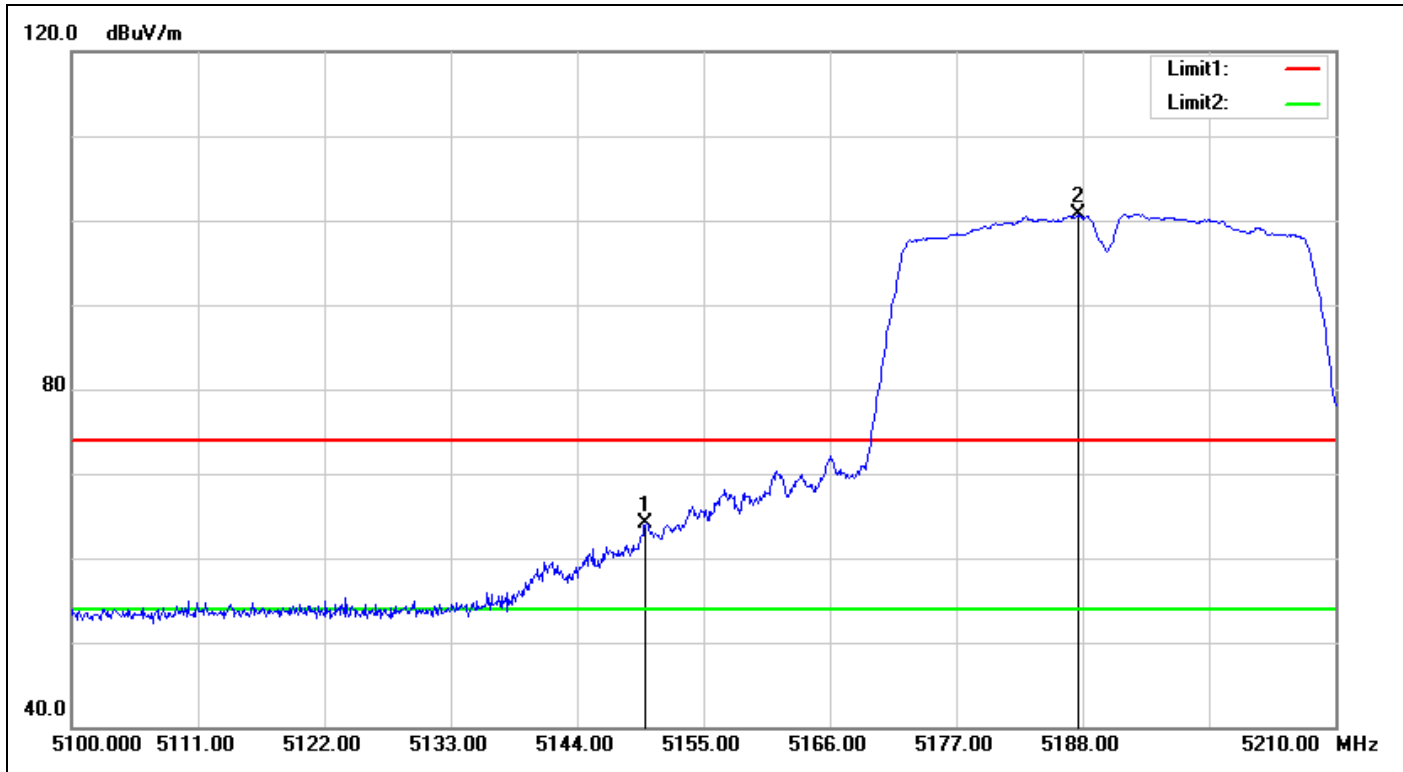
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5150.100 | 37.07 | 3.04 | 40.11 | 54.00 | -13.89 | AVG |
| 2 | 5243.100 | 86.66 | 4.64 | 91.30 | 54.00 | 37.30 | AVG |
| 3 | 5392.200 | 36.56 | 5.66 | 42.22 | 54.00 | -11.78 | AVG |

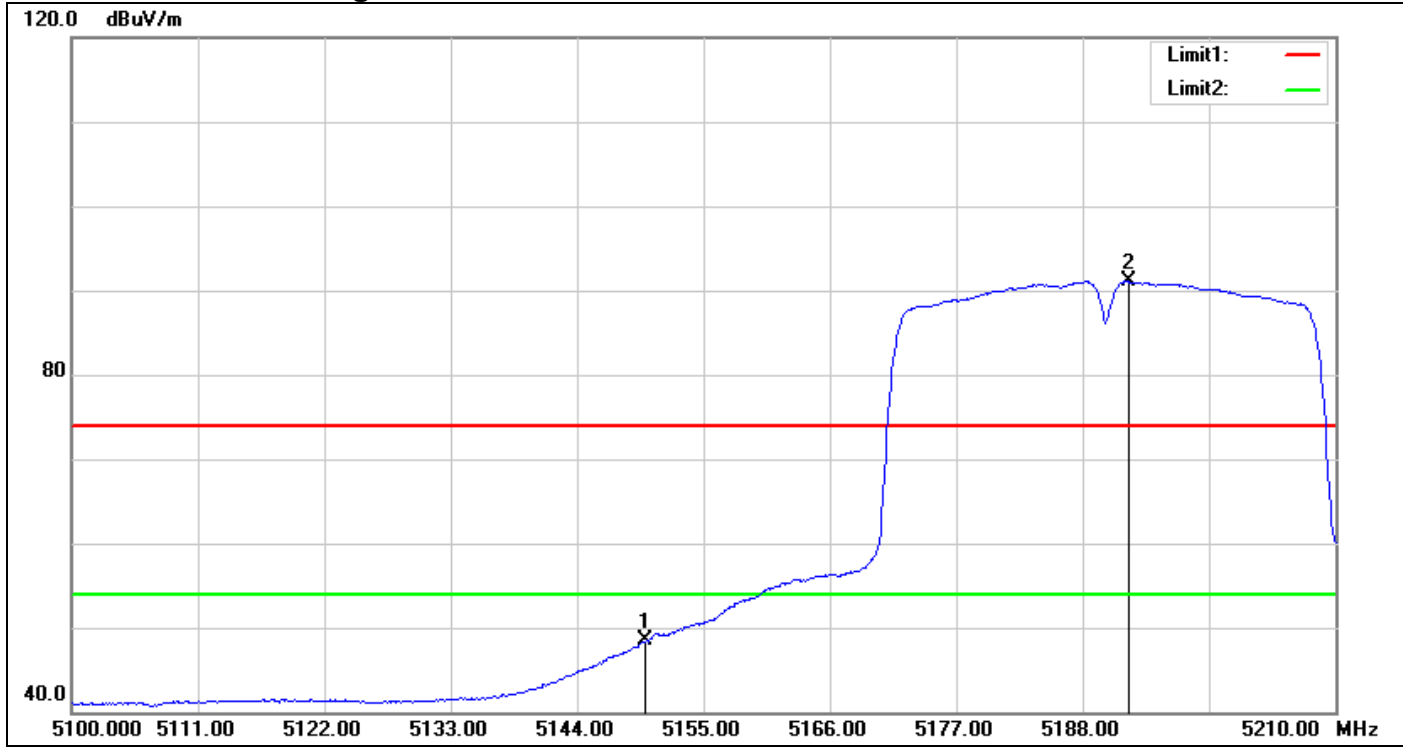
IEEE 802.11n HT40 MHz Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5150.000 | 61.03 | 3.04 | 64.07 | 74.00 | -9.93 | peak |
| 2 | 5187.670 | 96.66 | 4.13 | 100.79 | 74.00 | 26.79 | peak |

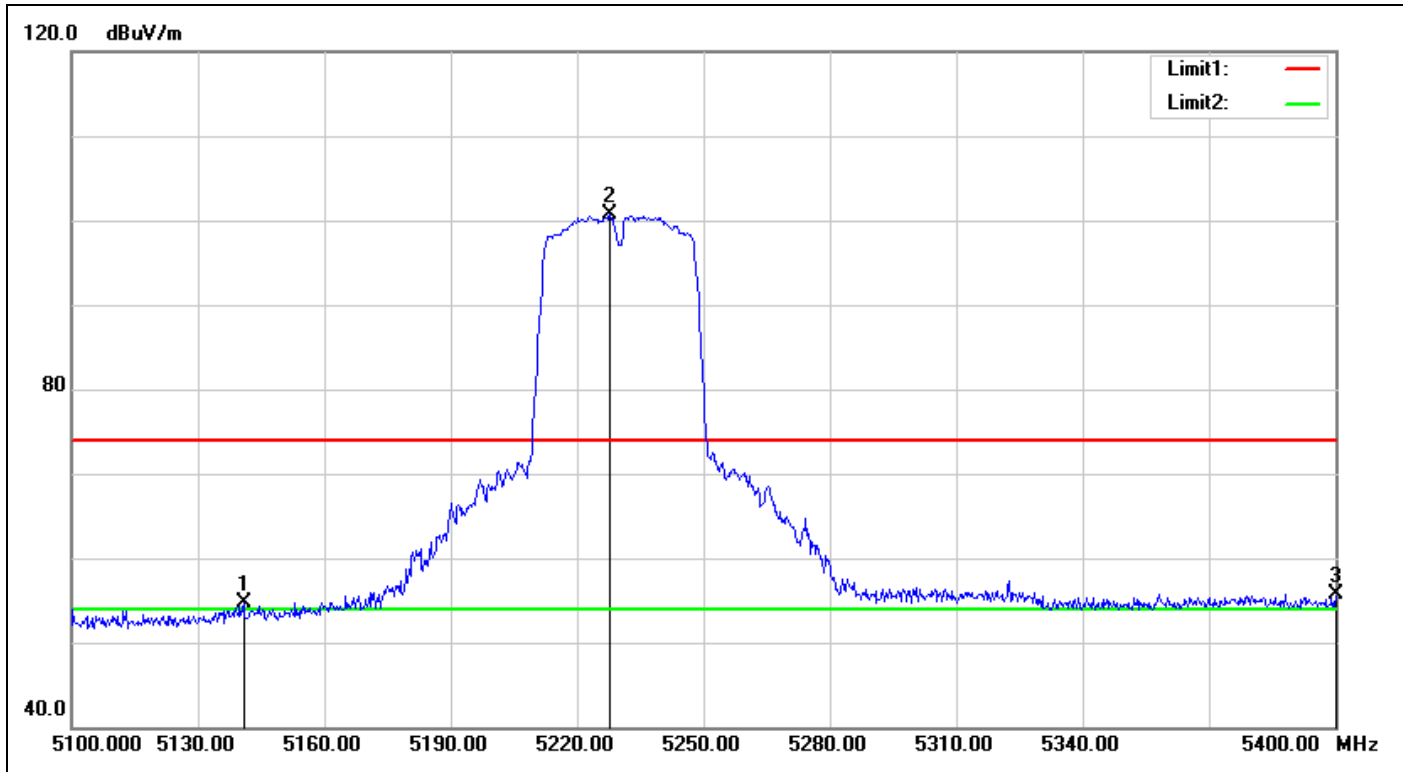
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5150.000 | 45.37 | 3.04 | 48.41 | 54.00 | -5.59 | AVG |
| 2 | 5192.070 | 86.80 | 4.26 | 91.06 | 54.00 | 37.06 | AVG |

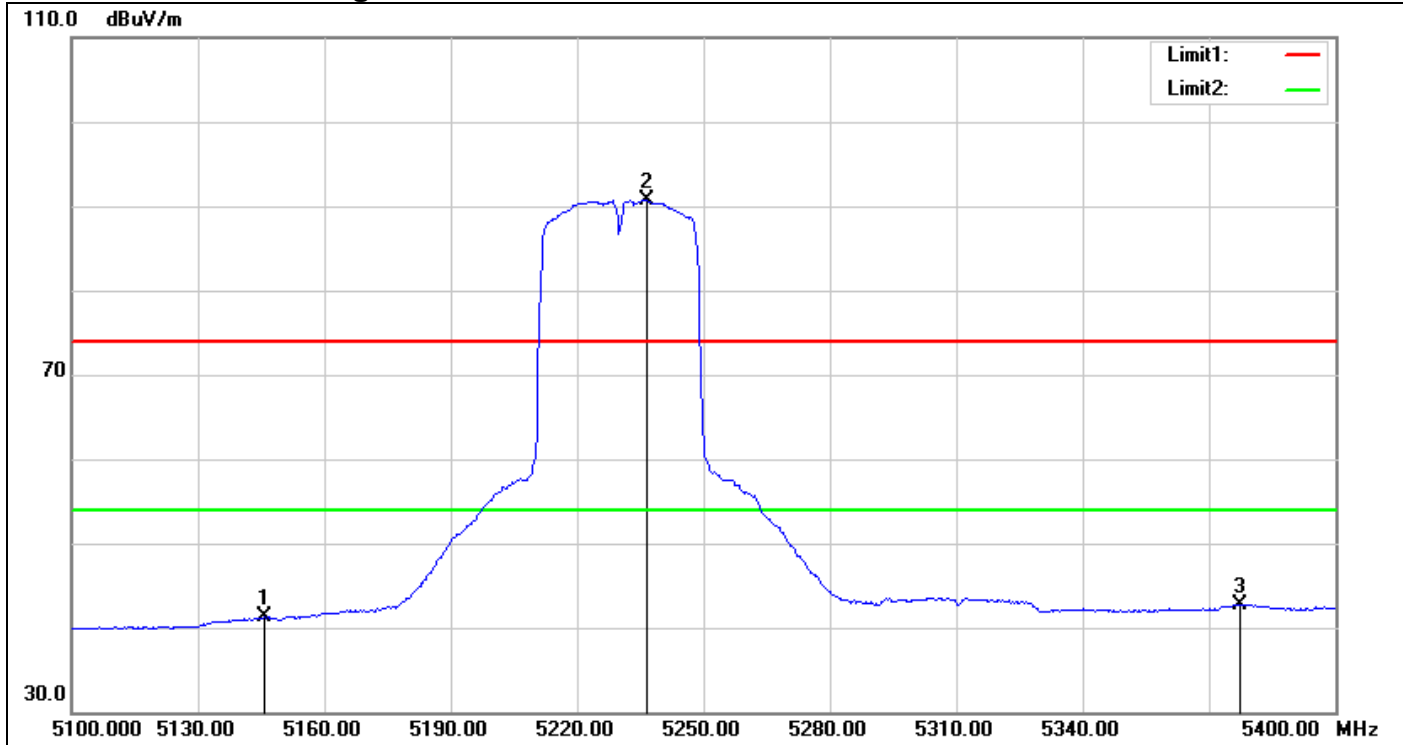
IEEE 802.11n HT40 MHz Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5140.800 | 51.81 | 2.98 | 54.79 | 74.00 | -19.21 | peak |
| 2 | 5227.800 | 96.09 | 4.58 | 100.67 | 74.00 | 26.67 | peak |
| 3 | 5400.000 | 49.99 | 5.72 | 55.71 | 74.00 | -18.29 | peak |

Detector mode: Average

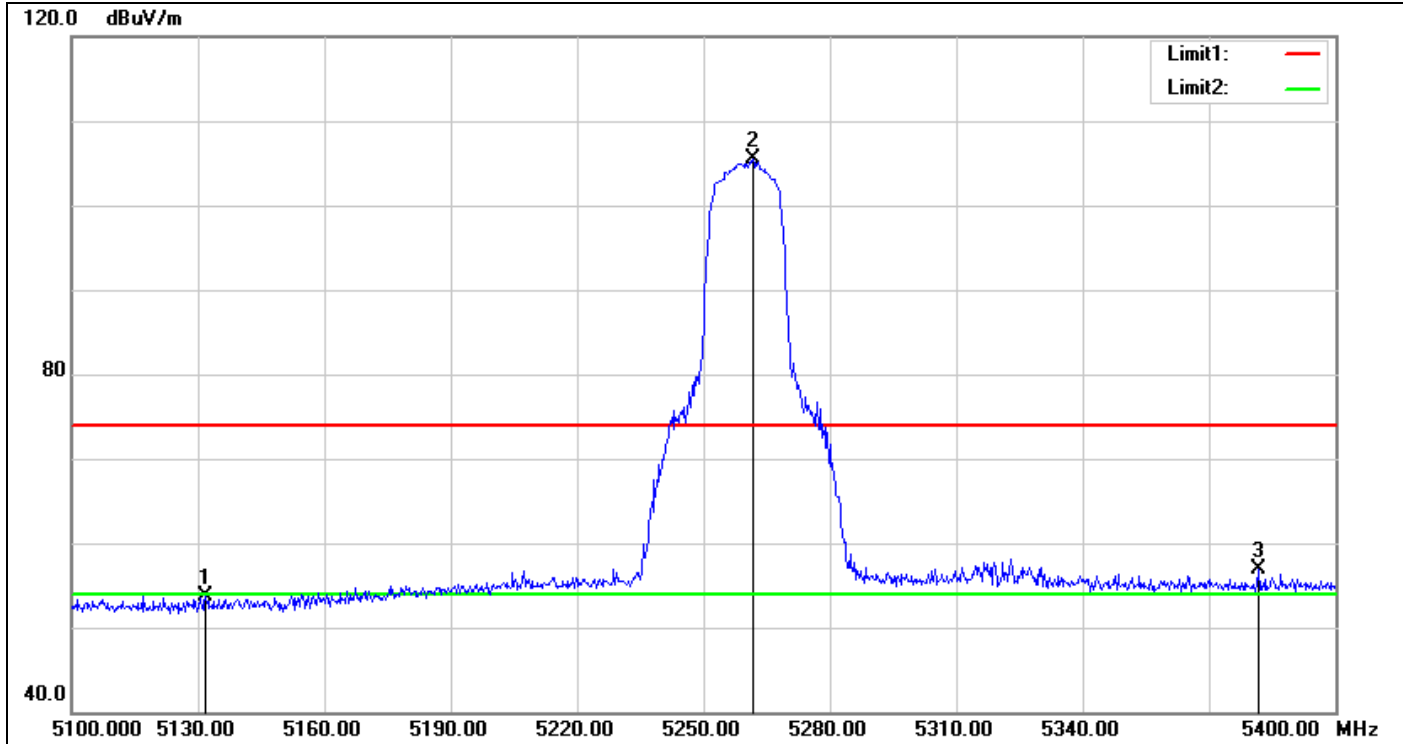


| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5145.900 | 38.28 | 3.01 | 41.29 | 54.00 | -12.71 | AVG |
| 2 | 5236.500 | 86.10 | 4.61 | 90.71 | 54.00 | 36.71 | AVG |
| 3 | 5377.500 | 37.21 | 5.54 | 42.75 | 54.00 | -11.25 | AVG |

U-NII-2A

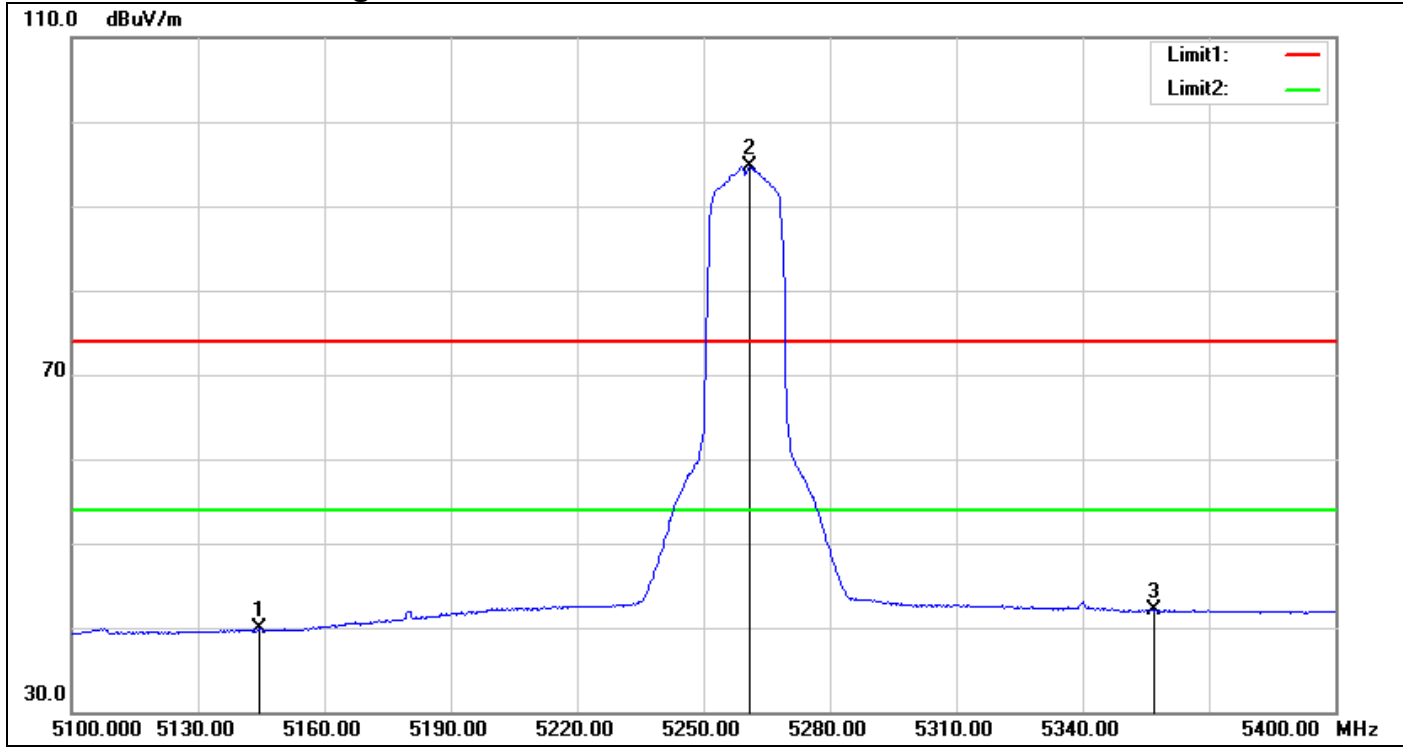
IEEE 802.11a Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5131.800 | 50.81 | 2.92 | 53.73 | 74.00 | -20.27 | peak |
| 2 | 5261.700 | 100.86 | 4.70 | 105.56 | 74.00 | 31.56 | peak |
| 3 | 5381.700 | 51.42 | 5.57 | 56.99 | 74.00 | -17.01 | peak |

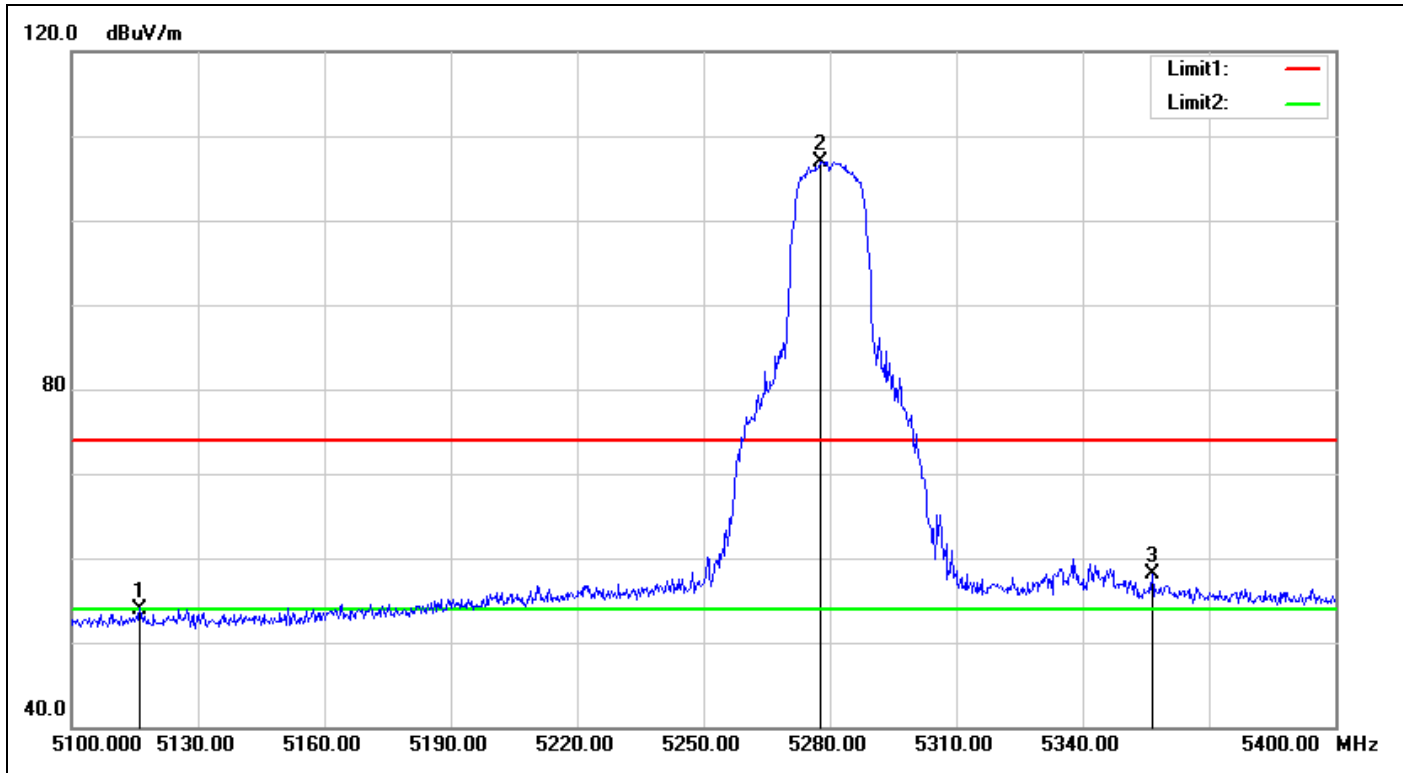
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5144.400 | 36.88 | 3.00 | 39.88 | 54.00 | -14.12 | AVG |
| 2 | 5260.800 | 90.06 | 4.70 | 94.76 | 54.00 | 40.76 | AVG |
| 3 | 5357.100 | 36.74 | 5.37 | 42.11 | 54.00 | -11.89 | AVG |

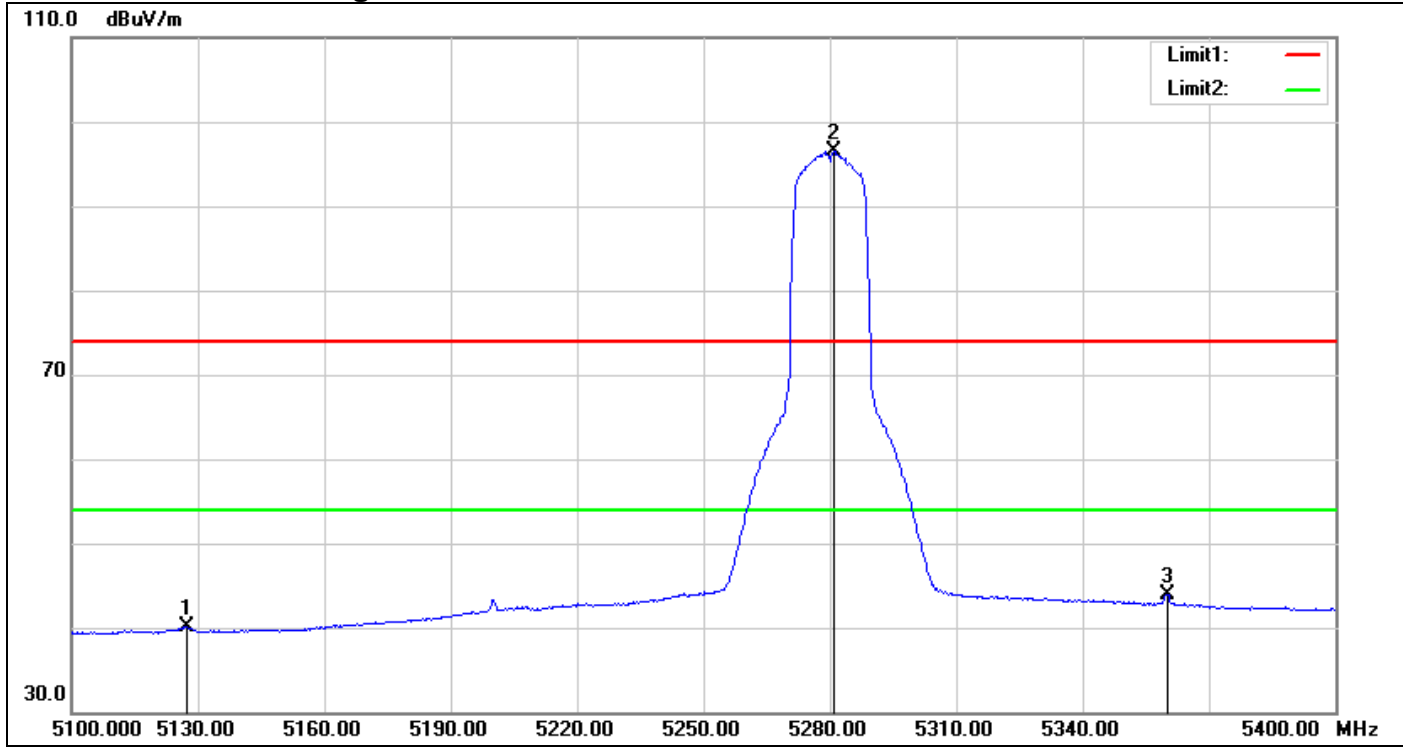
IEEE 802.11a Mode / CH Mid

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5116.200 | 51.19 | 2.81 | 54.00 | 74.00 | -20.00 | peak |
| 2 | 5277.600 | 102.25 | 4.75 | 107.00 | 74.00 | 33.00 | peak |
| 3 | 5356.500 | 52.77 | 5.36 | 58.13 | 74.00 | -15.87 | peak |

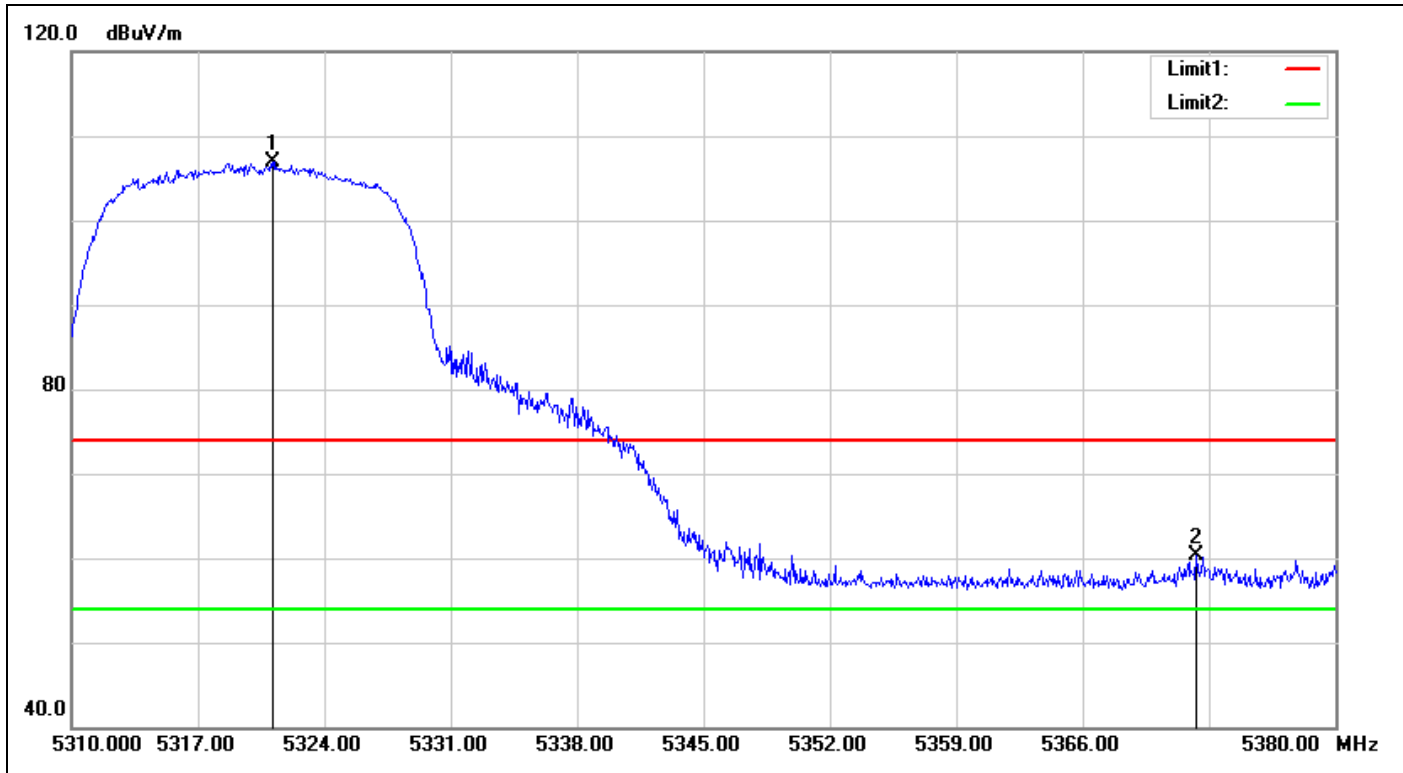
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5127.300 | 37.16 | 2.89 | 40.05 | 54.00 | -13.95 | AVG |
| 2 | 5280.900 | 91.69 | 4.77 | 96.46 | 54.00 | 42.46 | AVG |
| 3 | 5360.100 | 38.60 | 5.39 | 43.99 | 54.00 | -10.01 | AVG |

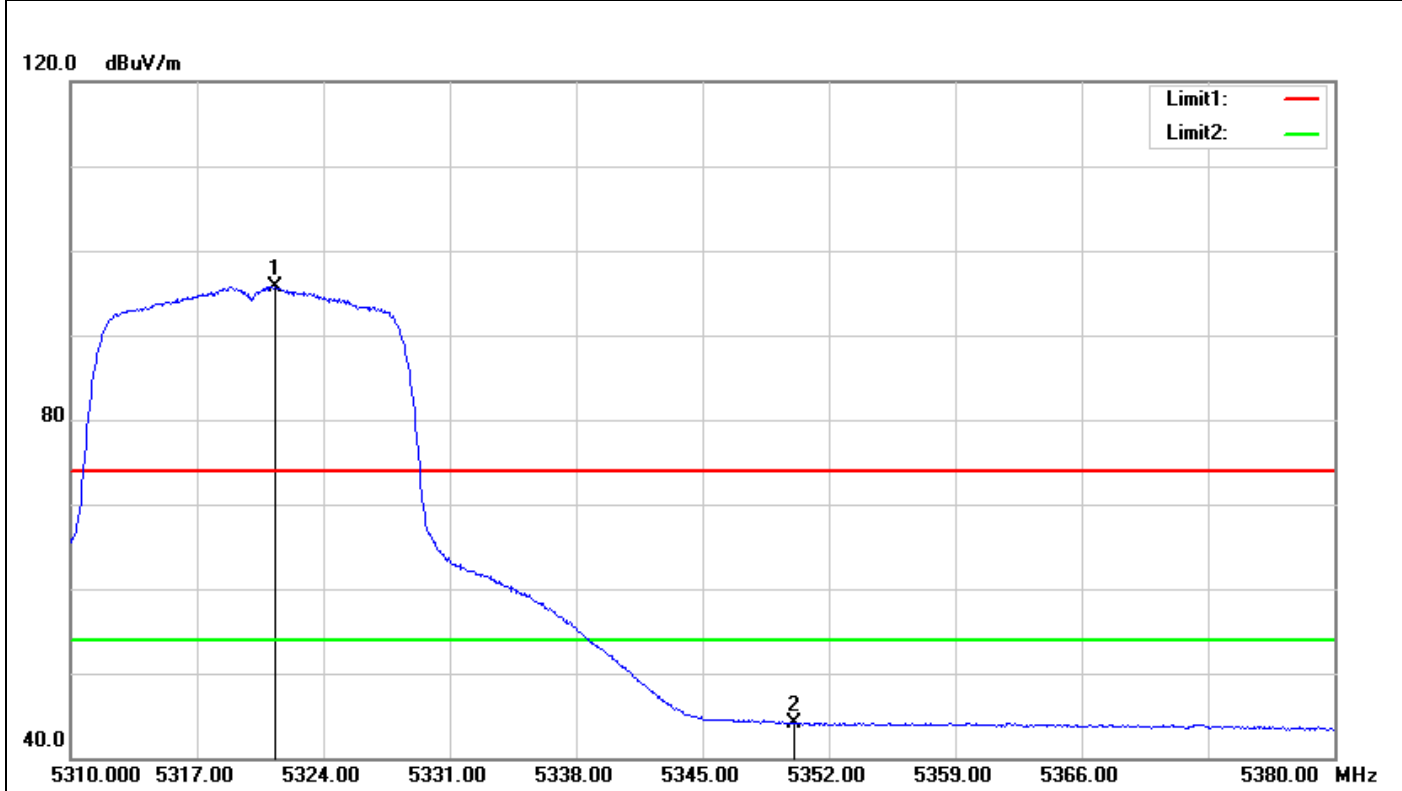
IEEE 802.11a Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5321.130 | 101.89 | 5.03 | 106.92 | 74.00 | 32.92 | peak |
| 2 | 5372.300 | 54.85 | 5.49 | 60.34 | 74.00 | -13.66 | peak |

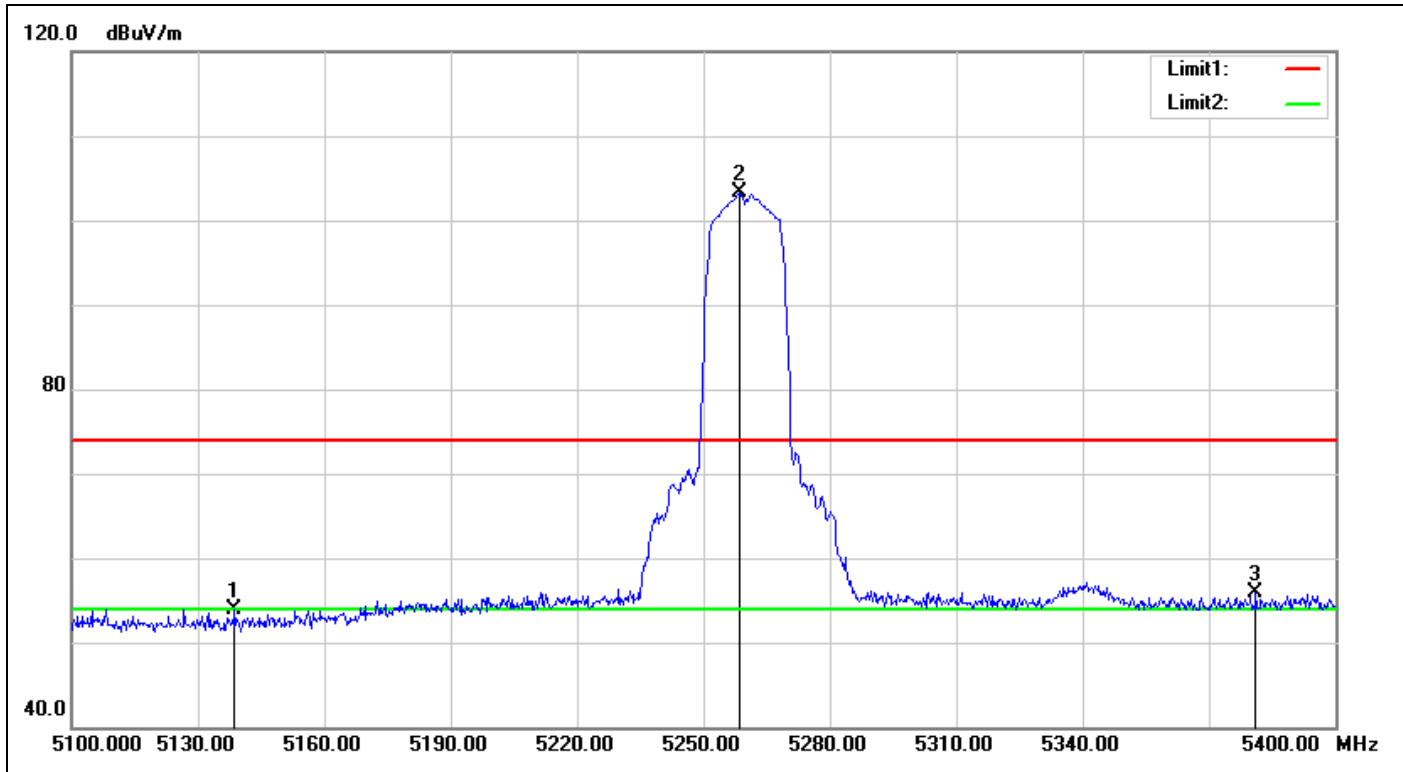
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5321.340 | 90.73 | 5.03 | 95.76 | 54.00 | 41.76 | AVG |
| 2 | 5350.040 | 38.86 | 5.31 | 44.17 | 54.00 | -9.83 | AVG |

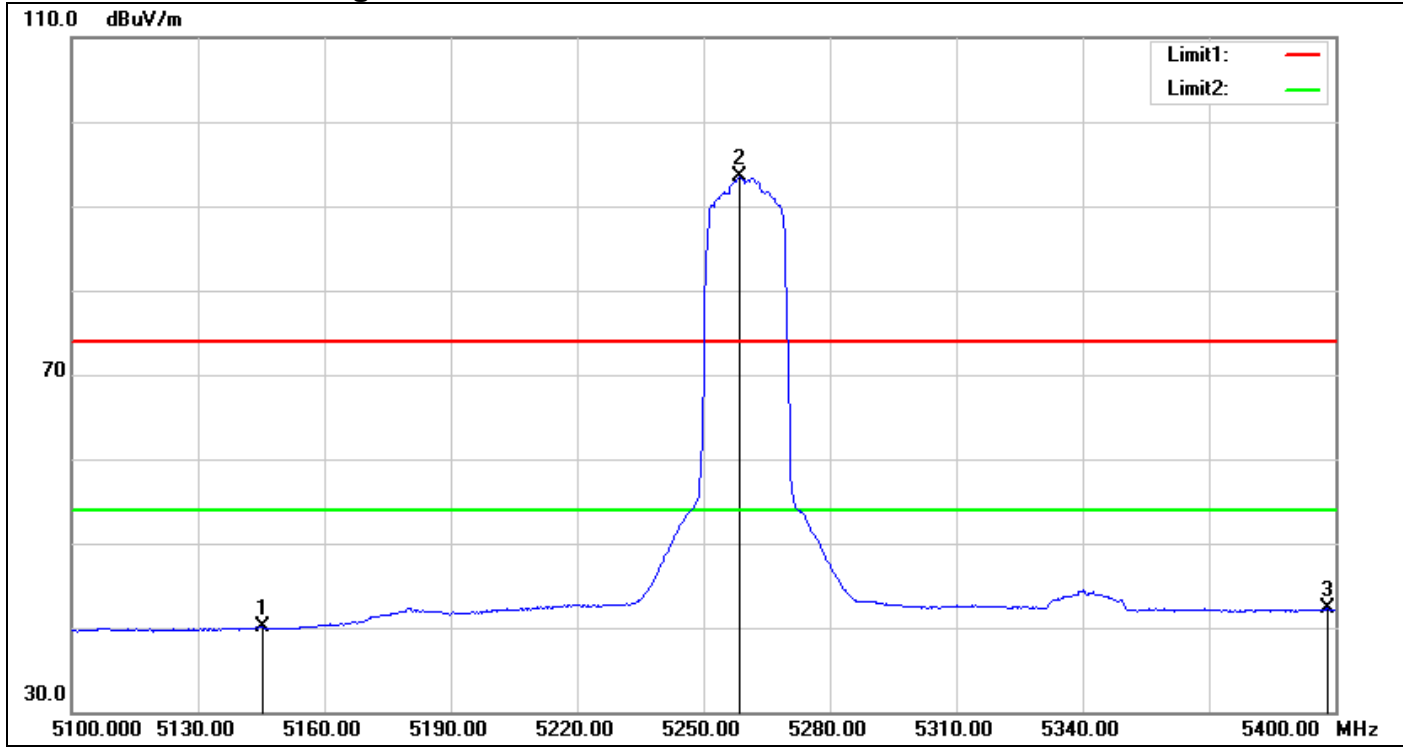
IEEE 802.11n HT20 MHz Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5138.700 | 51.00 | 2.96 | 53.96 | 74.00 | -20.04 | peak |
| 2 | 5258.700 | 98.59 | 4.69 | 103.28 | 74.00 | 29.28 | peak |
| 3 | 5381.100 | 50.41 | 5.57 | 55.98 | 74.00 | -18.02 | peak |

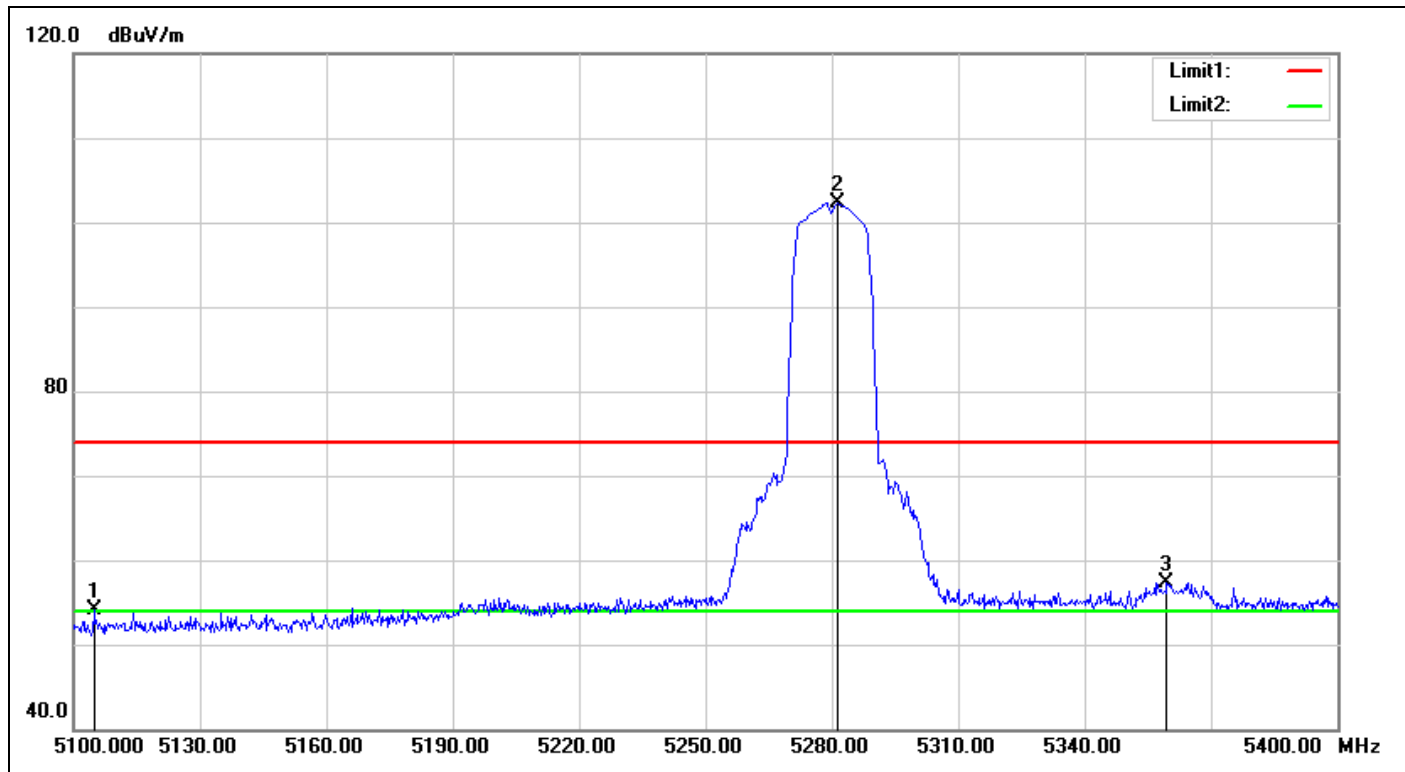
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5145.300 | 37.11 | 3.01 | 40.12 | 54.00 | -13.88 | AVG |
| 2 | 5258.400 | 88.76 | 4.69 | 93.45 | 54.00 | 39.45 | AVG |
| 3 | 5398.200 | 36.55 | 5.71 | 42.26 | 54.00 | -11.74 | AVG |

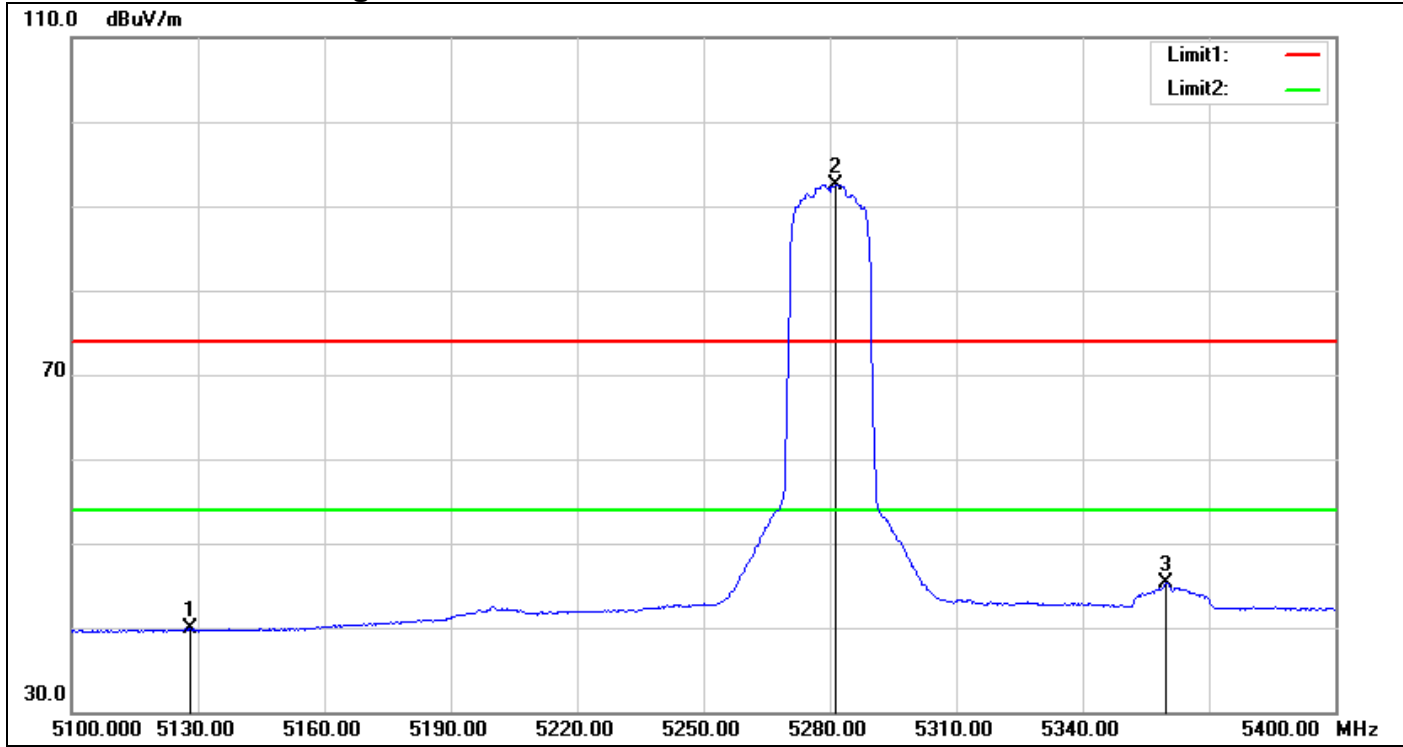
IEEE 802.11n HT20 MHz Mode / CH Mid

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5104.800 | 51.44 | 2.73 | 54.17 | 74.00 | -19.83 | peak |
| 2 | 5281.200 | 97.61 | 4.77 | 102.38 | 74.00 | 28.38 | peak |
| 3 | 5359.500 | 51.90 | 5.39 | 57.29 | 74.00 | -16.71 | peak |

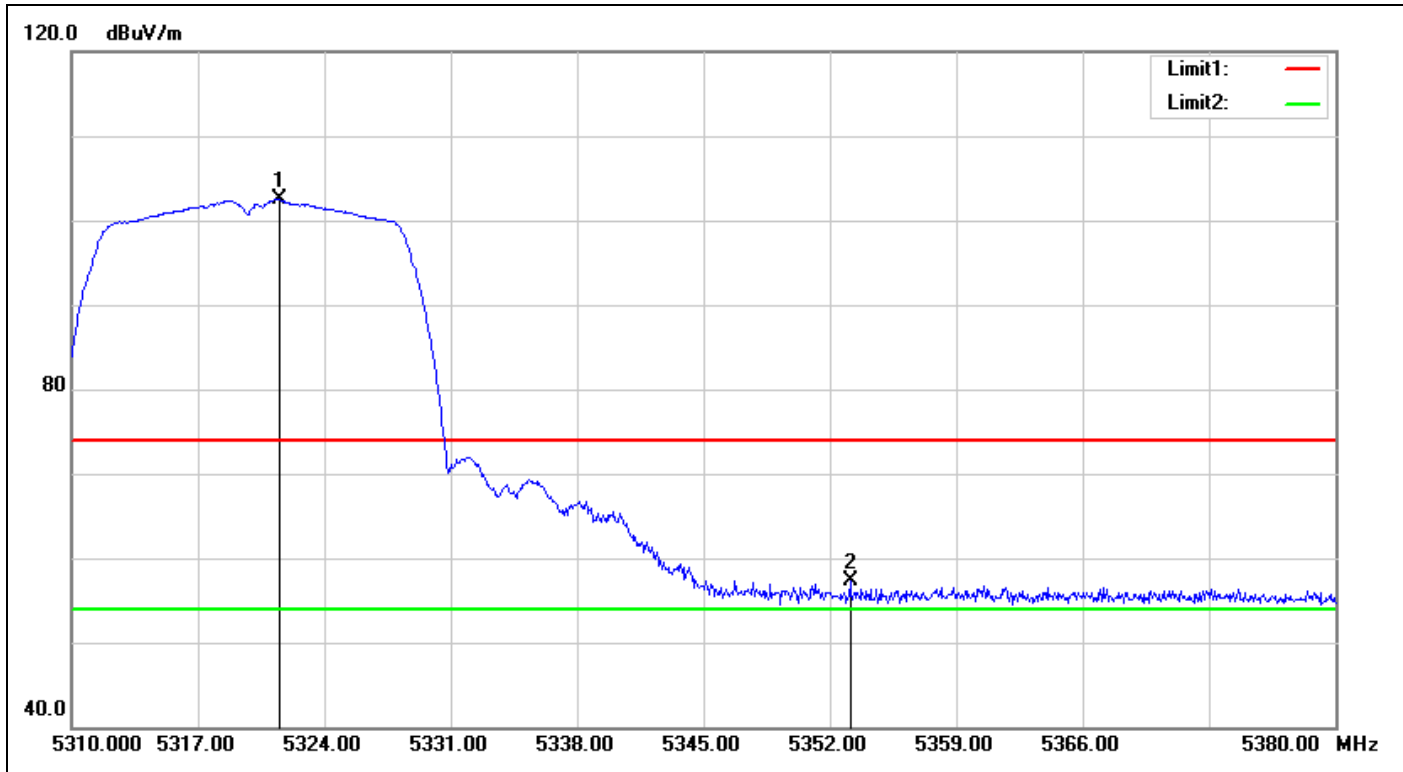
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5128.200 | 37.05 | 2.89 | 39.94 | 54.00 | -14.06 | AVG |
| 2 | 5281.500 | 87.83 | 4.77 | 92.60 | 54.00 | 38.60 | AVG |
| 3 | 5359.800 | 39.83 | 5.39 | 45.22 | 54.00 | -8.78 | AVG |

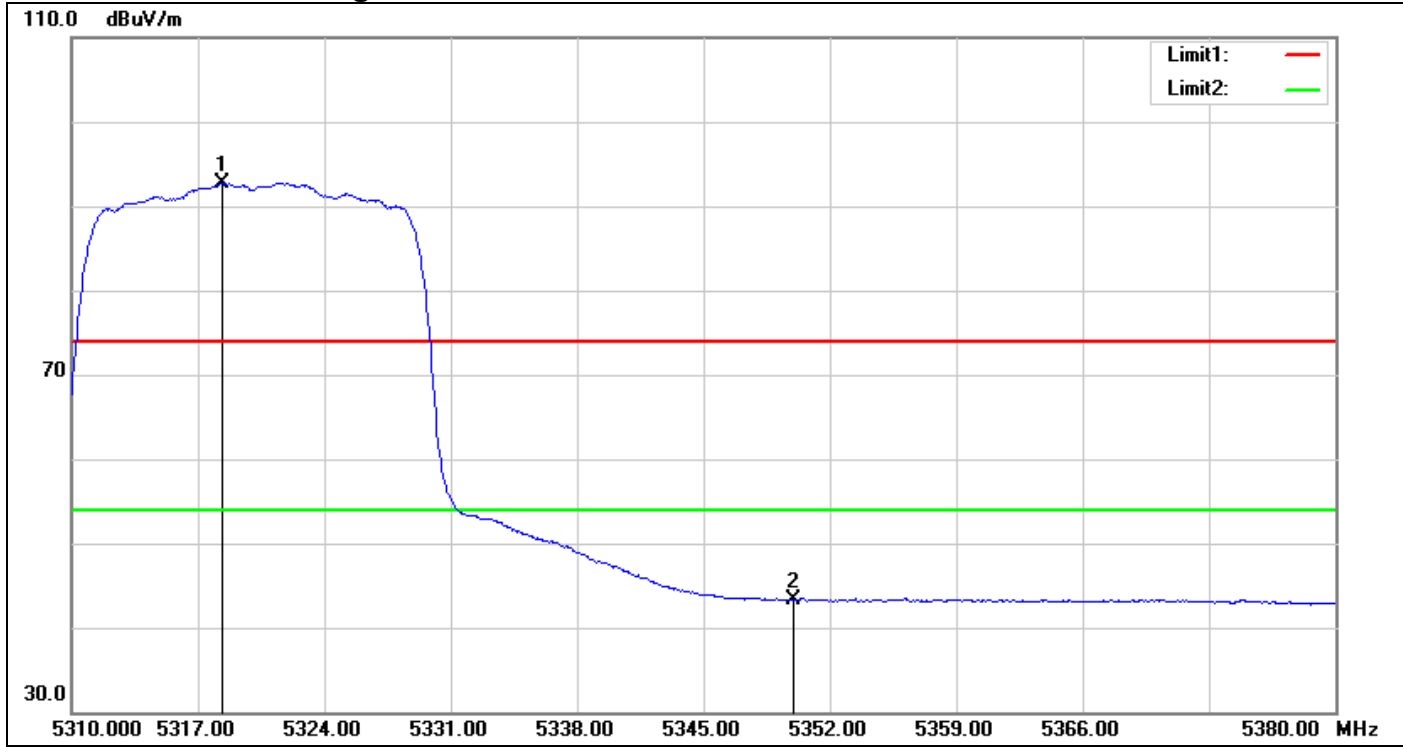
IEEE 802.11n HT20 MHz Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5321.480 | 97.48 | 5.04 | 102.52 | 74.00 | 28.52 | peak |
| 2 | 5353.120 | 51.90 | 5.34 | 57.24 | 74.00 | -16.76 | peak |

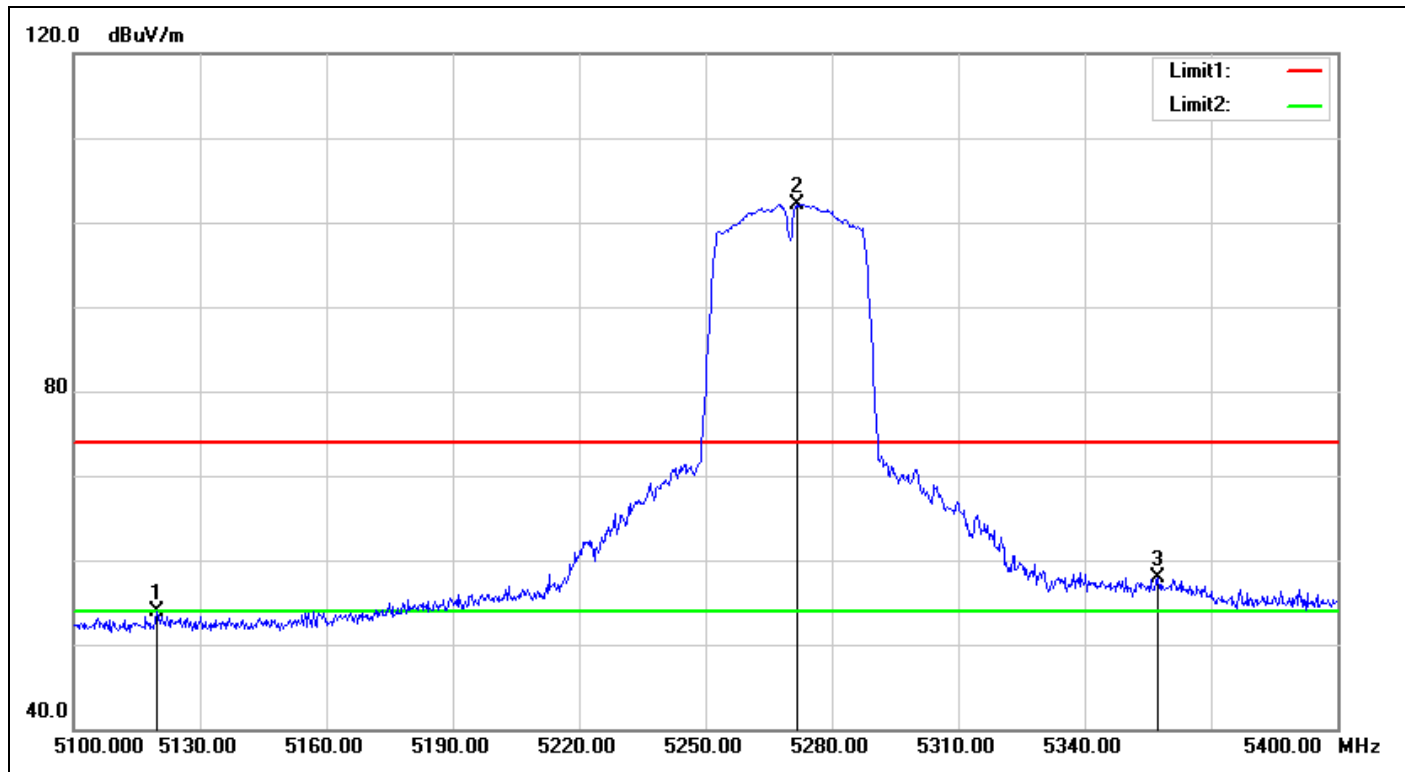
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5318.330 | 87.71 | 5.01 | 92.72 | 54.00 | 38.72 | AVG |
| 2 | 5350.000 | 37.96 | 5.31 | 43.27 | 54.00 | -10.73 | AVG |

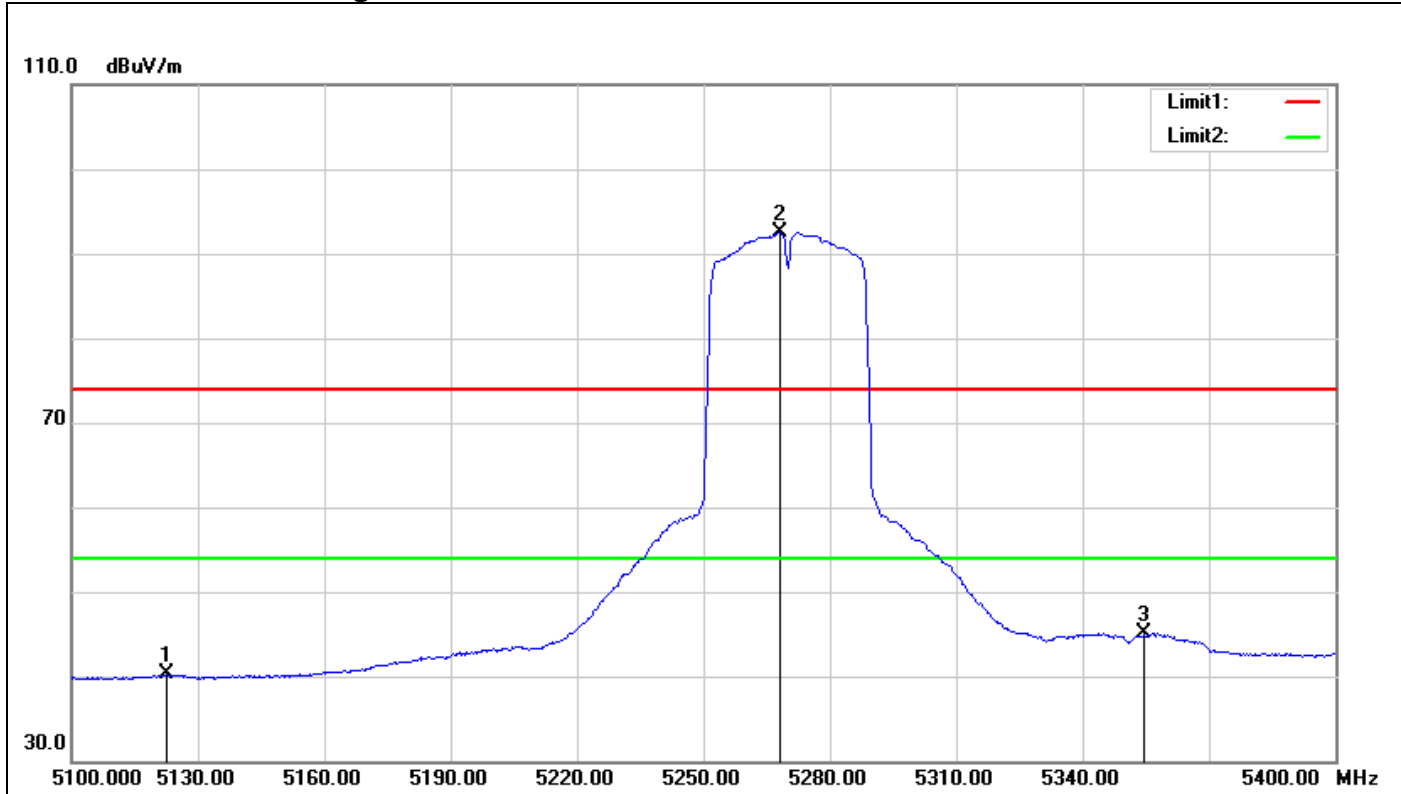
IEEE 802.11n HT40 MHz Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5119.800 | 51.10 | 2.83 | 53.93 | 74.00 | -20.07 | peak |
| 2 | 5271.600 | 97.41 | 4.73 | 102.14 | 74.00 | 28.14 | peak |
| 3 | 5357.400 | 52.44 | 5.37 | 57.81 | 74.00 | -16.19 | peak |

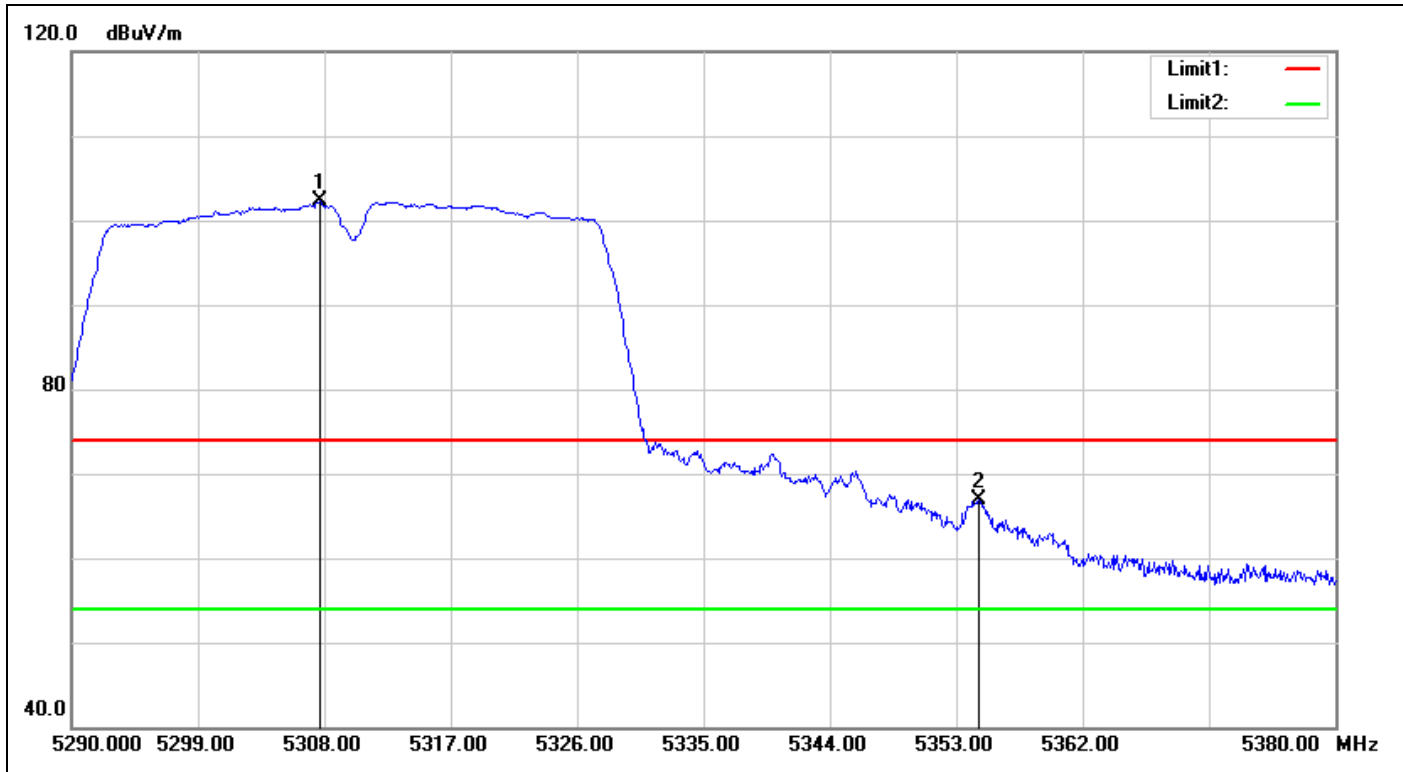
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5122.500 | 37.36 | 2.85 | 40.21 | 54.00 | -13.79 | AVG |
| 2 | 5268.300 | 87.71 | 4.72 | 92.43 | 54.00 | 38.43 | AVG |
| 3 | 5354.700 | 39.68 | 5.35 | 45.03 | 54.00 | -8.97 | AVG |

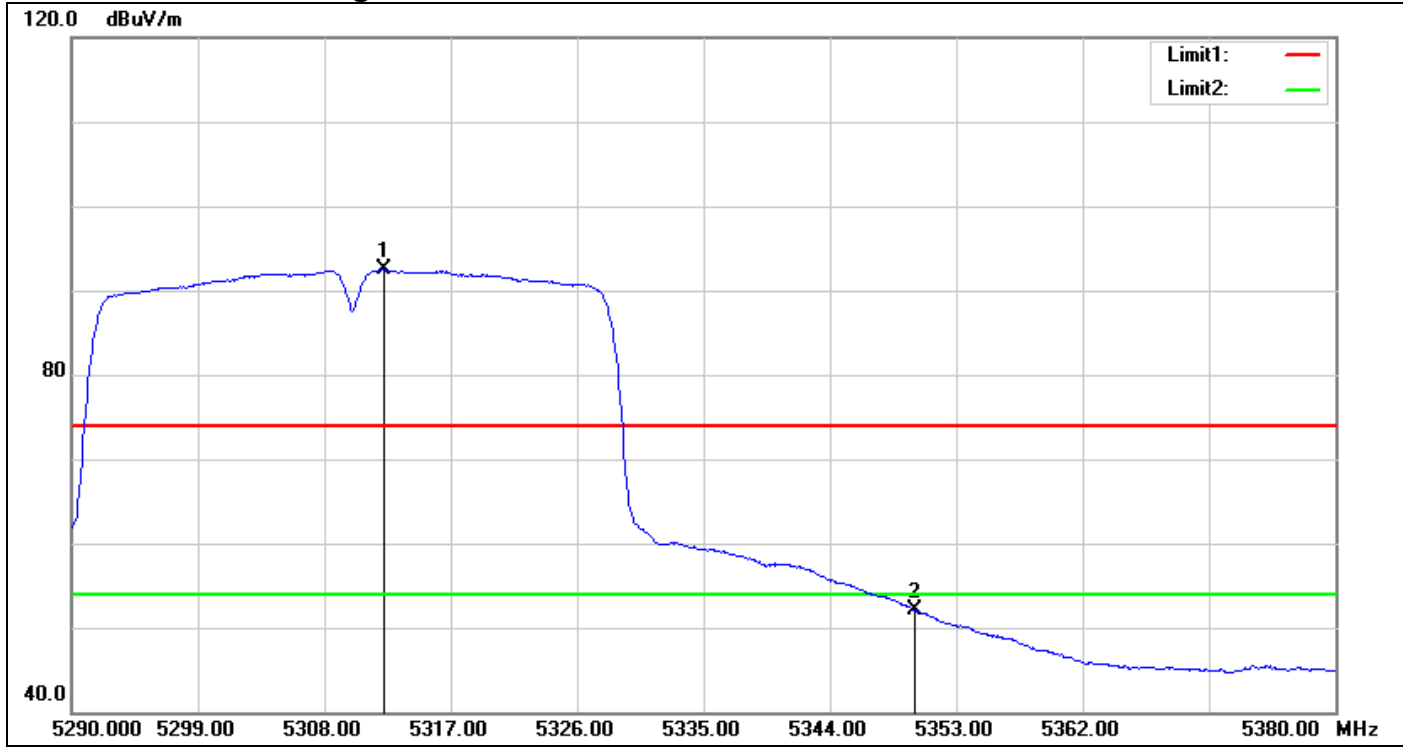
IEEE 802.11n HT40 MHz Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5307.640 | 97.39 | 4.90 | 102.29 | 74.00 | 28.29 | peak |
| 2 | 5354.620 | 61.54 | 5.35 | 66.89 | 74.00 | -7.11 | peak |

Detector mode: Average

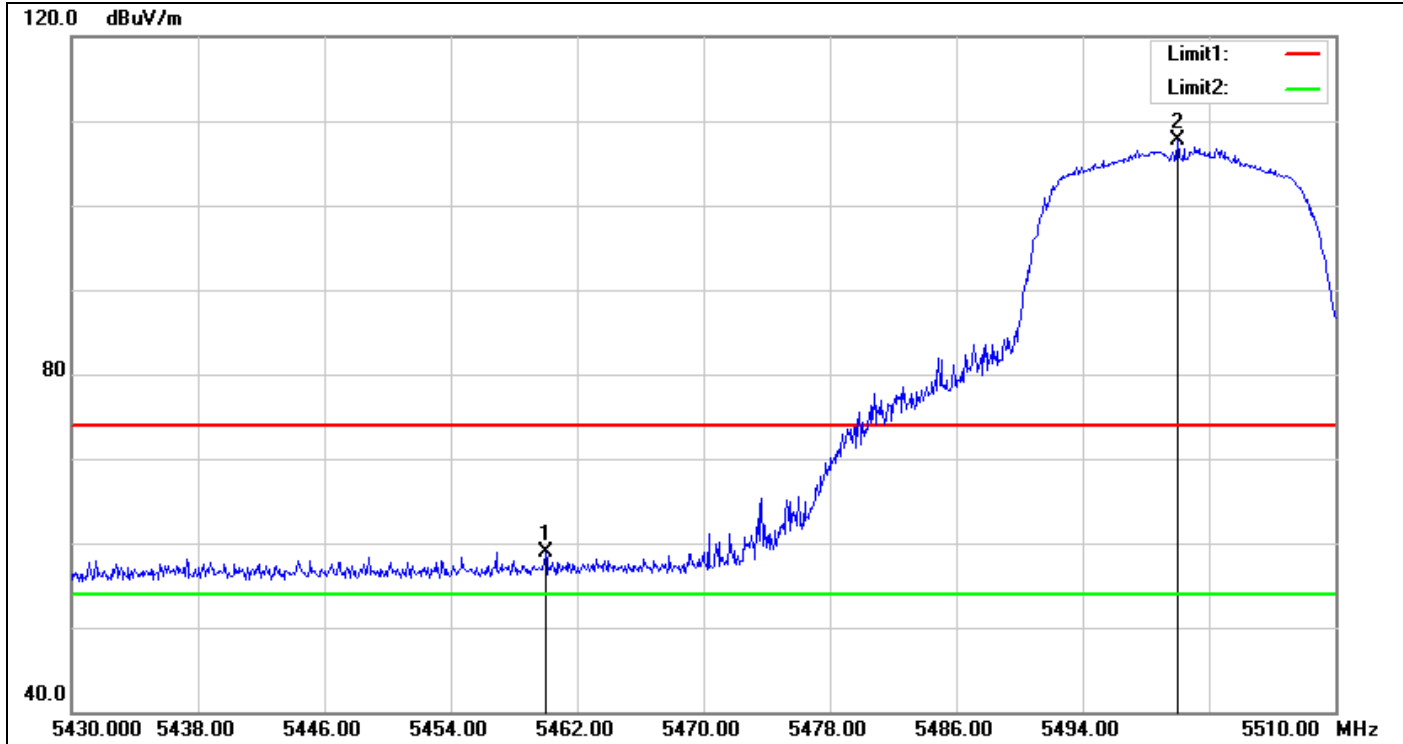


| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5312.230 | 87.52 | 4.95 | 92.47 | 54.00 | 38.47 | AVG |
| 2 | 5350.000 | 46.73 | 5.31 | 52.04 | 54.00 | -1.96 | AVG |

U-NII-2C

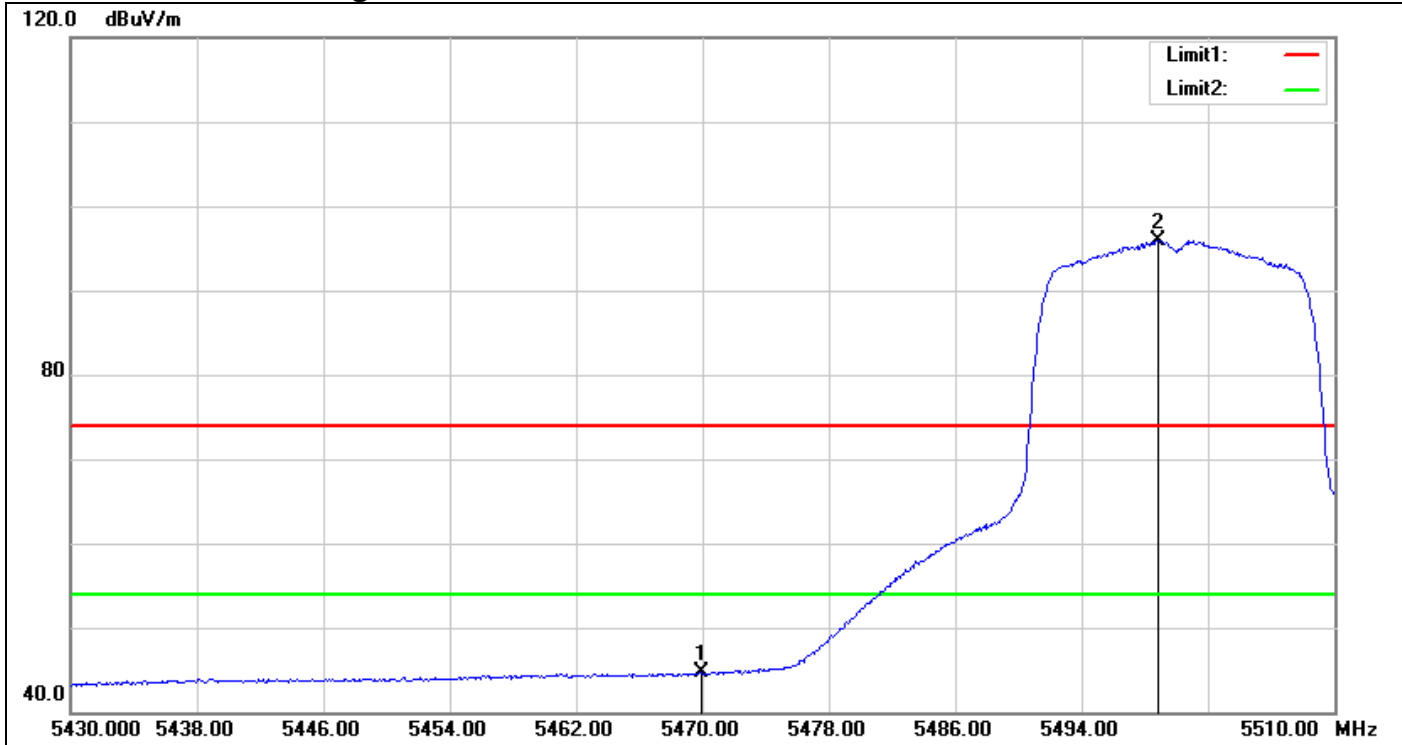
IEEE 802.11a Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5460.000 | 53.48 | 5.44 | 58.92 | 74.00 | -15.08 | peak |
| 2 | 5500.000 | 102.49 | 5.25 | 107.74 | 74.00 | 33.74 | peak |

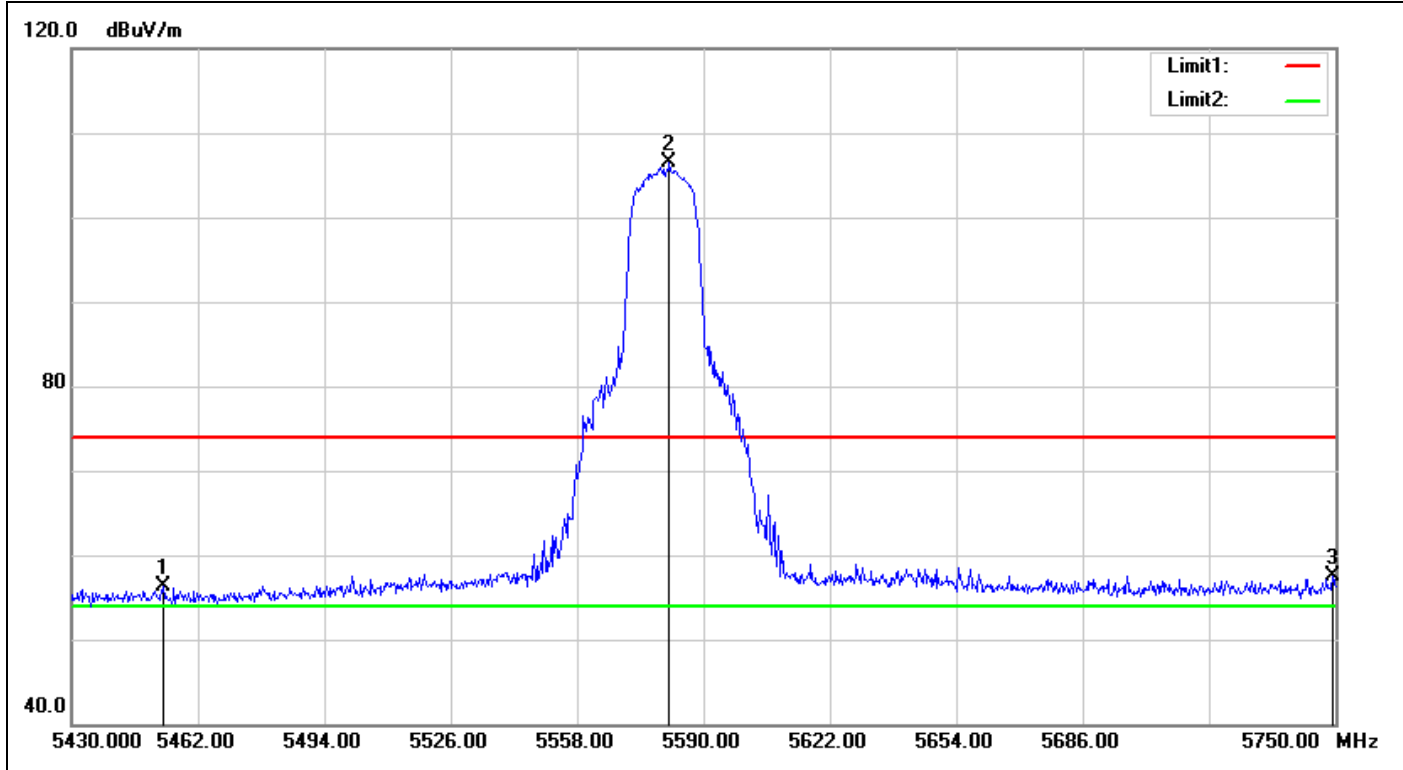
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5469.920 | 39.33 | 5.39 | 44.72 | 54.00 | -9.28 | AVG |
| 2 | 5498.880 | 90.69 | 5.26 | 95.95 | 54.00 | 41.95 | AVG |

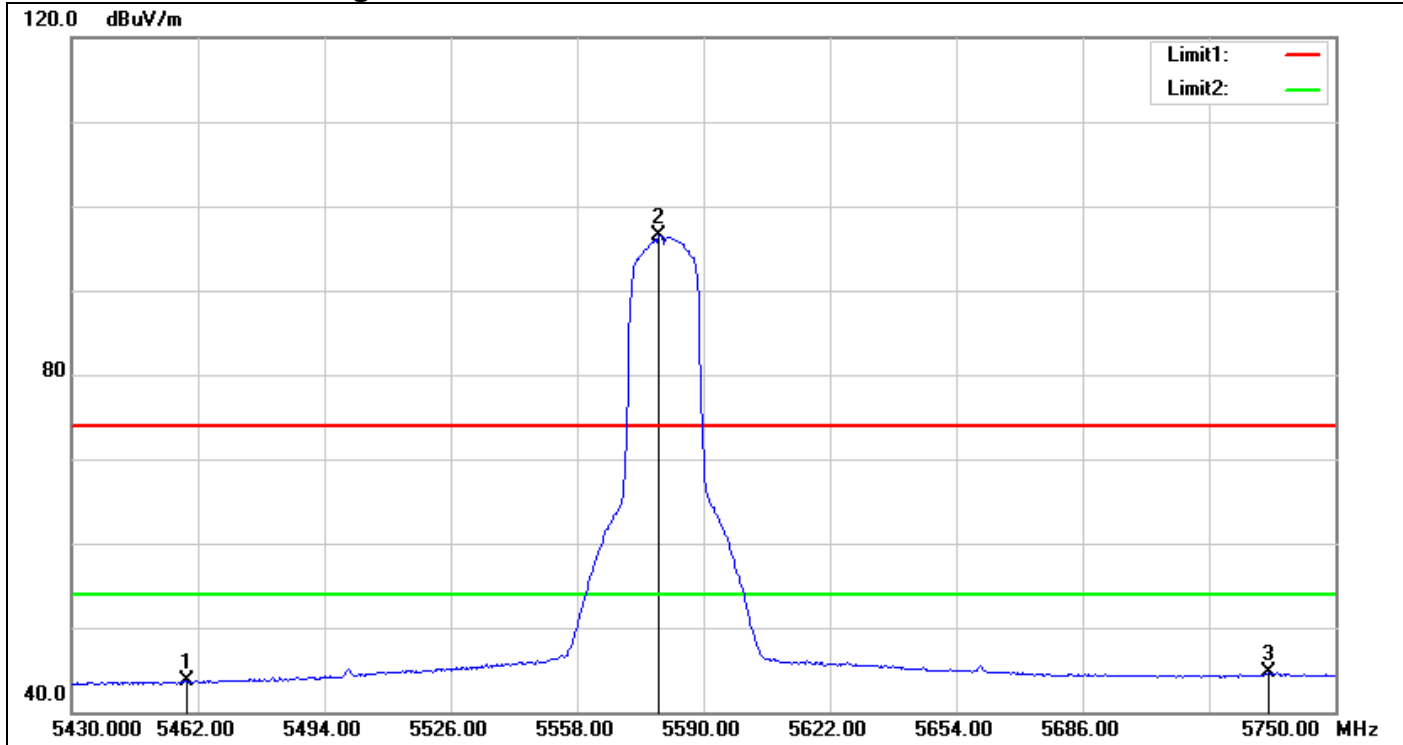
IEEE 802.11a Mode / CH Mid

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5453.360 | 50.74 | 5.47 | 56.21 | 74.00 | -17.79 | peak |
| 2 | 5581.360 | 100.82 | 5.60 | 106.42 | 74.00 | 32.42 | peak |
| 3 | 5749.360 | 51.17 | 6.31 | 57.48 | 74.00 | -16.52 | peak |

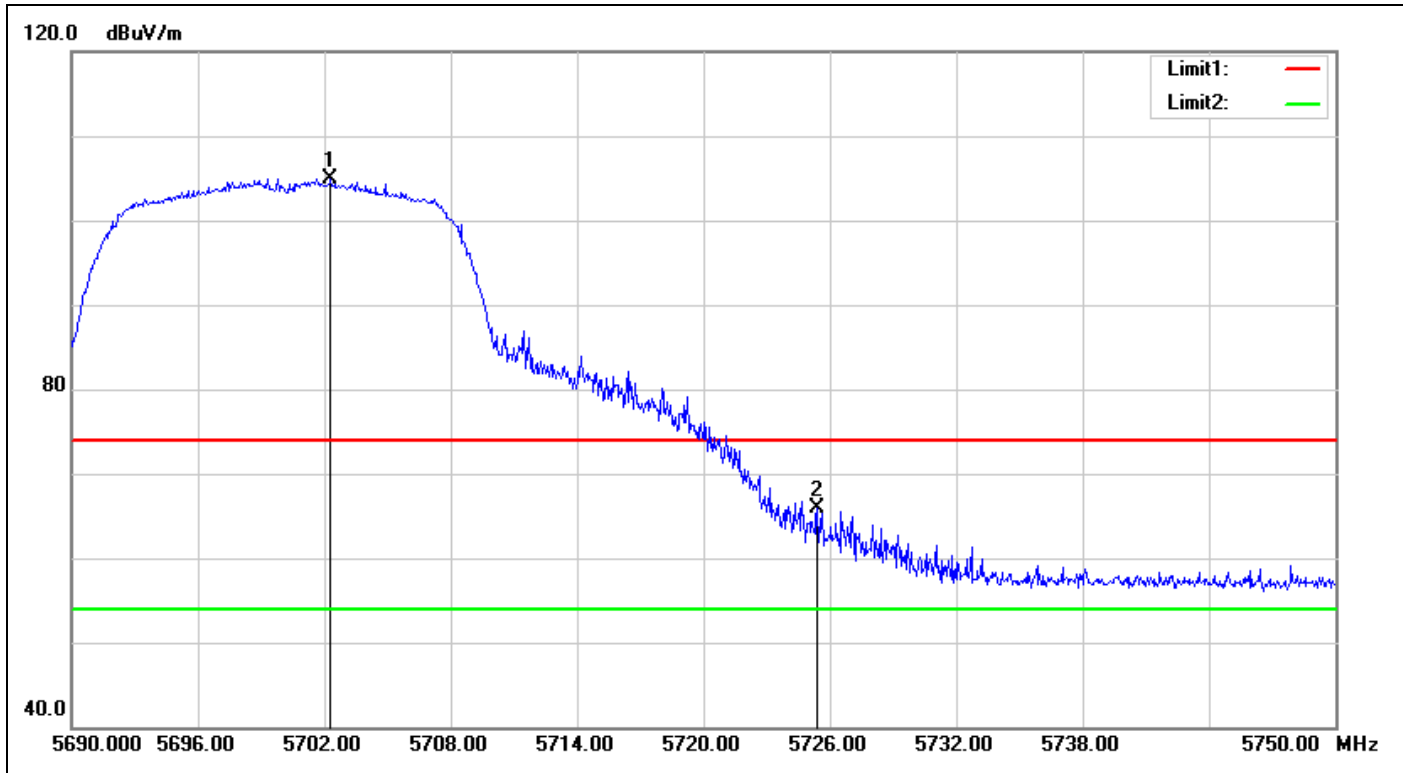
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5459.120 | 38.32 | 5.44 | 43.76 | 54.00 | -10.24 | AVG |
| 2 | 5578.800 | 90.97 | 5.59 | 96.56 | 54.00 | 42.56 | AVG |
| 3 | 5733.040 | 38.38 | 6.24 | 44.62 | 54.00 | -9.38 | AVG |

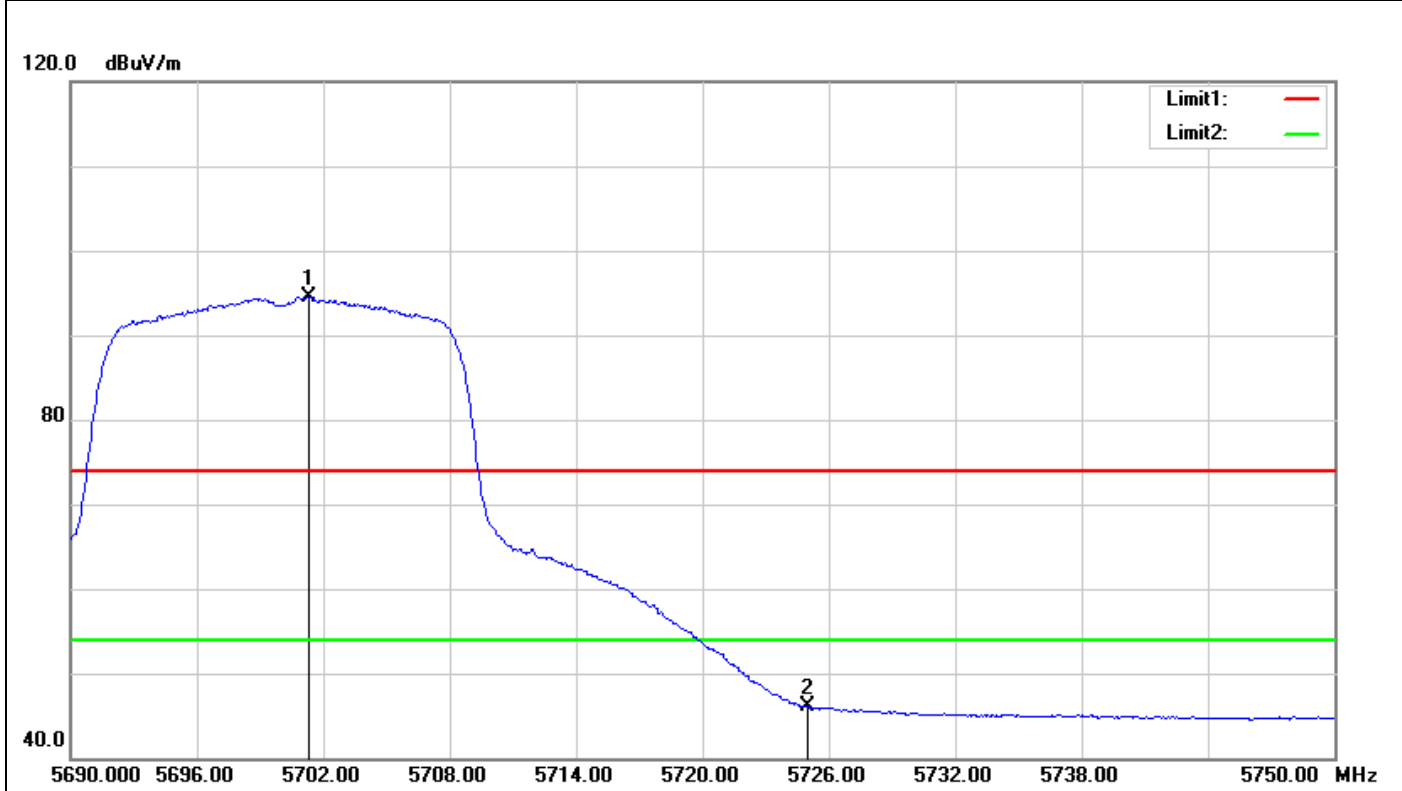
IEEE 802.11a Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5702.300 | 98.86 | 6.11 | 104.97 | 74.00 | 30.97 | peak |
| 2 | 5725.400 | 59.76 | 6.21 | 65.97 | 74.00 | -8.03 | peak |

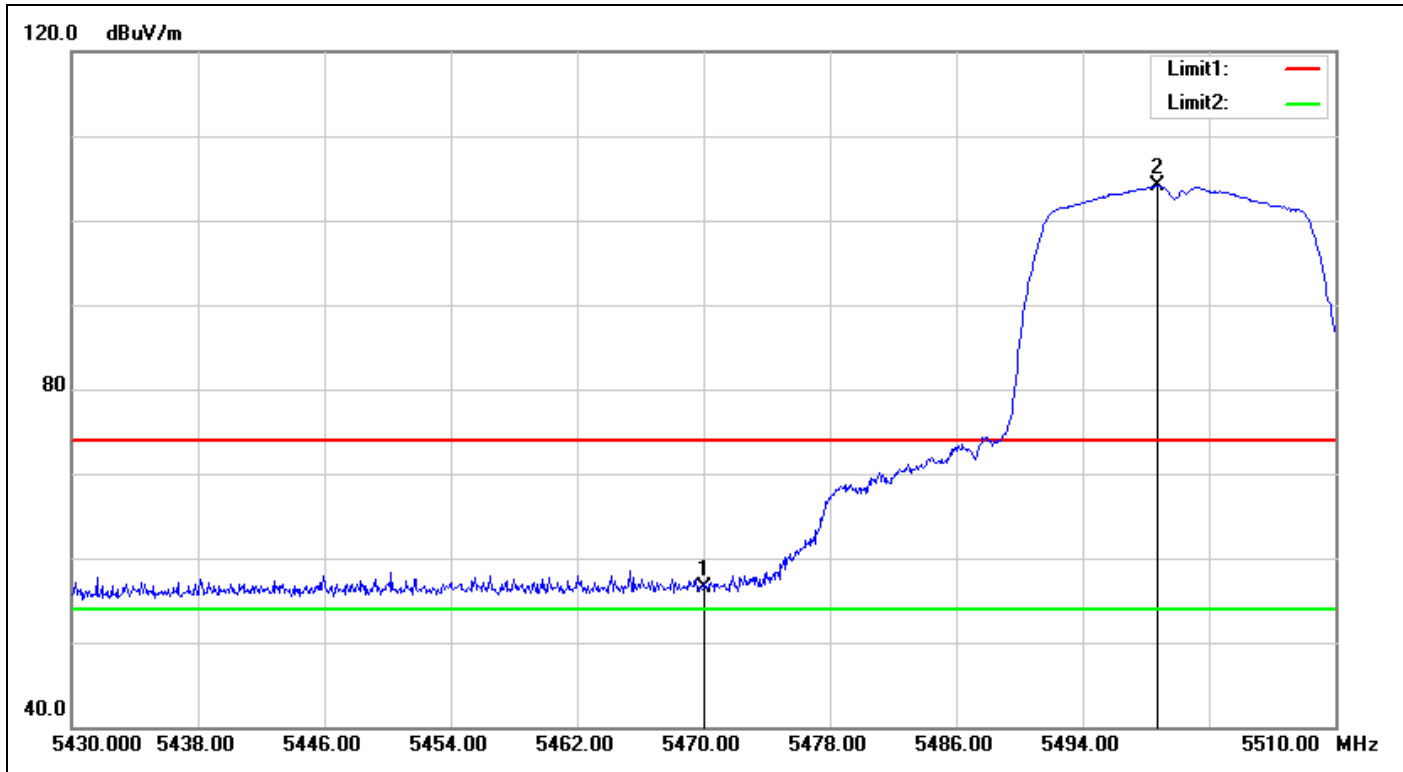
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5701.280 | 88.43 | 6.11 | 94.54 | 54.00 | 40.54 | AVG |
| 2 | 5725.000 | 39.81 | 6.21 | 46.02 | 54.00 | -7.98 | AVG |

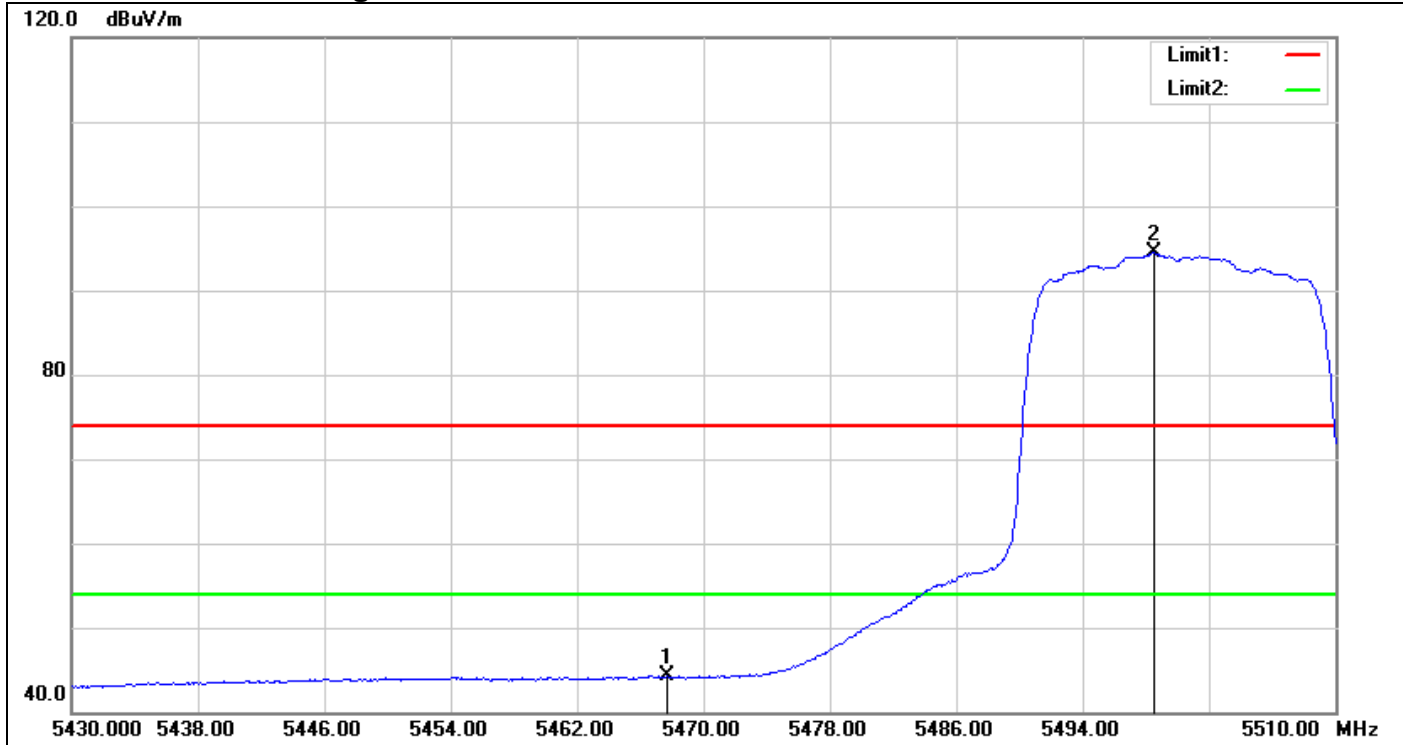
IEEE 802.11n HT20 MHz Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1 | 5470.000 | 51.02 | 5.39 | 56.41 | 74.00 | -17.59 | 137 | | peak |
| 2 | 5498.720 | 98.85 | 5.26 | 104.11 | 74.00 | 30.11 | 150 | 203 | peak |

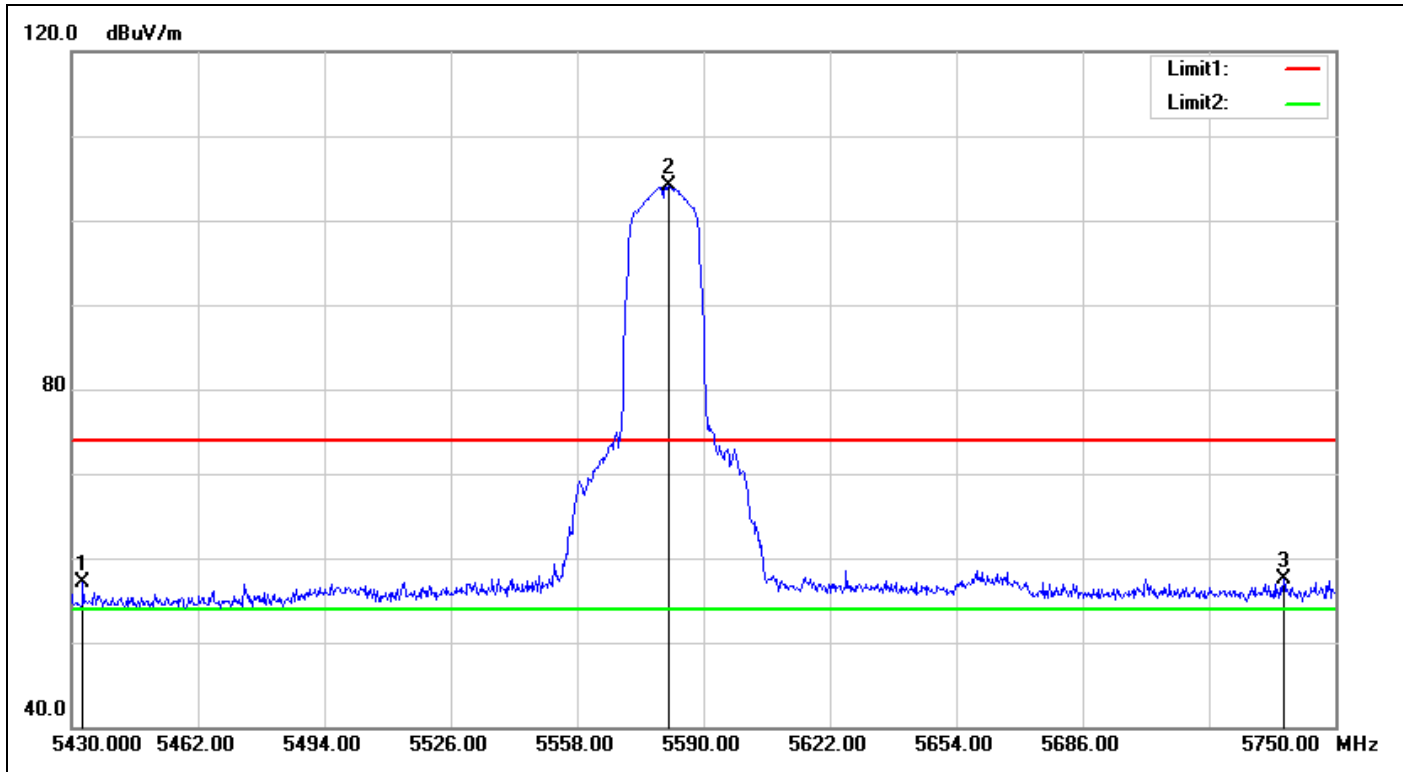
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1 | 5467.680 | 38.87 | 5.40 | 44.27 | 54.00 | -9.73 | 150 | 137 | AVG |
| 2 | 5498.560 | 89.19 | 5.26 | 94.45 | 54.00 | 40.45 | 150 | 203 | AVG |

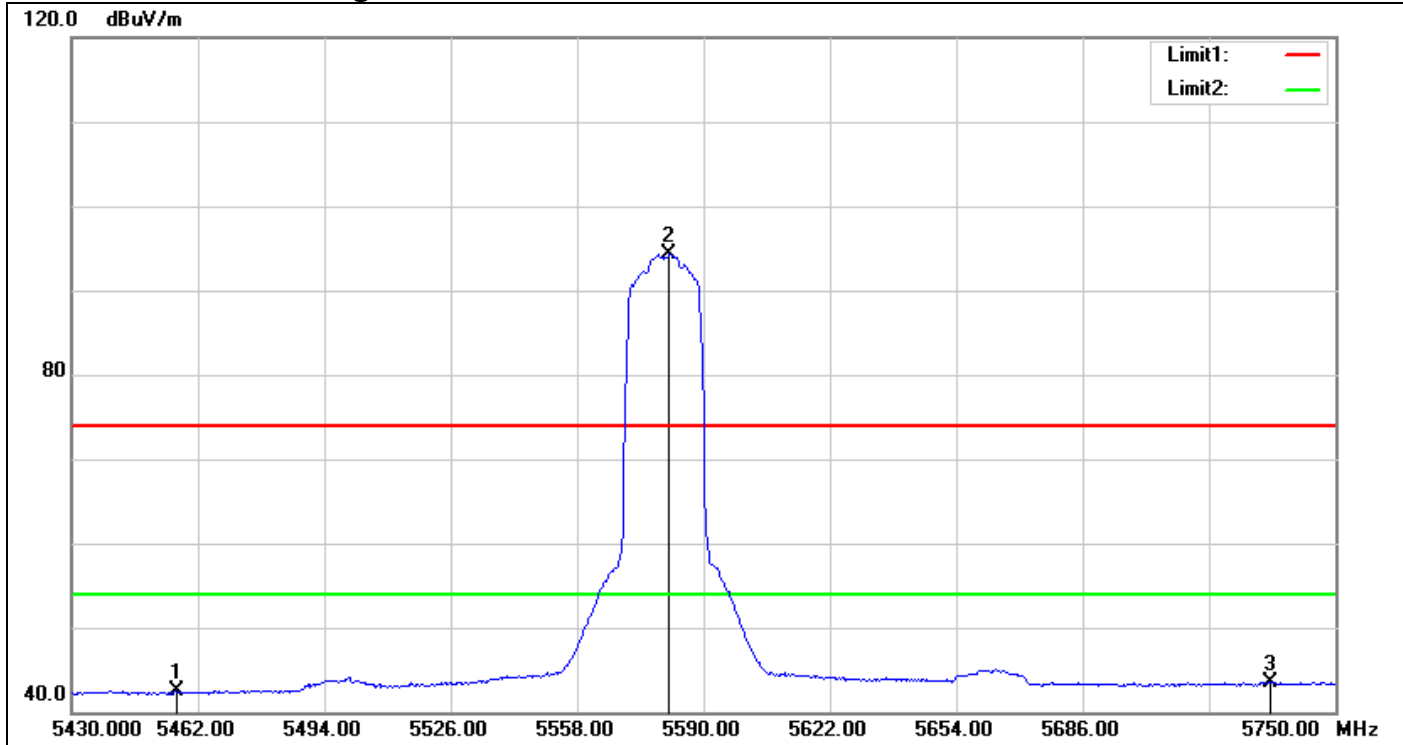
IEEE 802.11n HT20 MHz Mode / CH Mid

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1 | 5432.880 | 51.45 | 5.57 | 57.02 | 74.00 | -16.98 | 150 | 23 | peak |
| 2 | 5581.360 | 98.48 | 5.60 | 104.08 | 74.00 | 30.08 | 150 | 217 | peak |
| 3 | 5736.880 | 51.22 | 6.26 | 57.48 | 74.00 | -16.52 | 150 | 357 | peak |

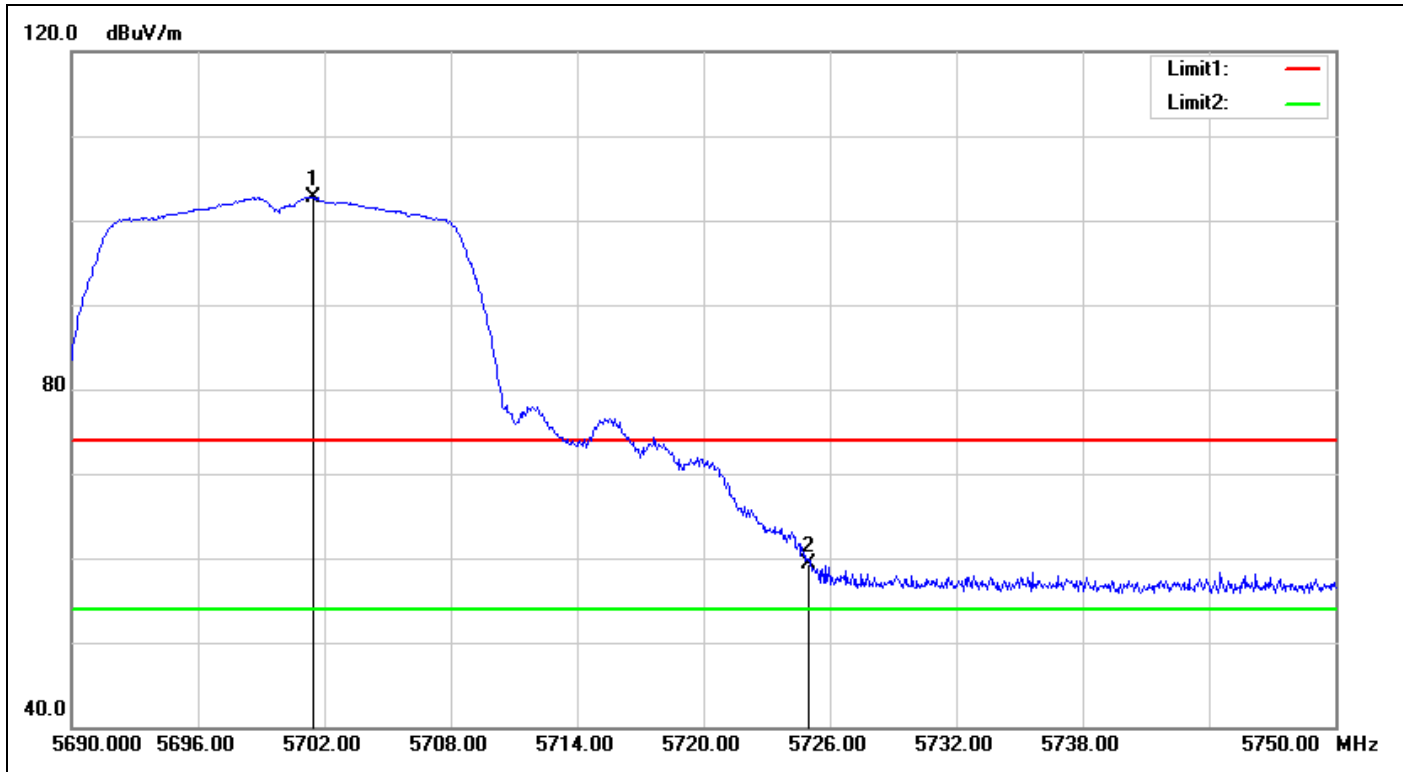
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1 | 5456.560 | 37.03 | 5.45 | 42.48 | 54.00 | -11.52 | 150 | 222 | AVG |
| 2 | 5581.360 | 88.61 | 5.60 | 94.21 | 54.00 | 40.21 | 150 | 217 | AVG |
| 3 | 5733.360 | 37.28 | 6.24 | 43.52 | 54.00 | -10.48 | 150 | 357 | AVG |

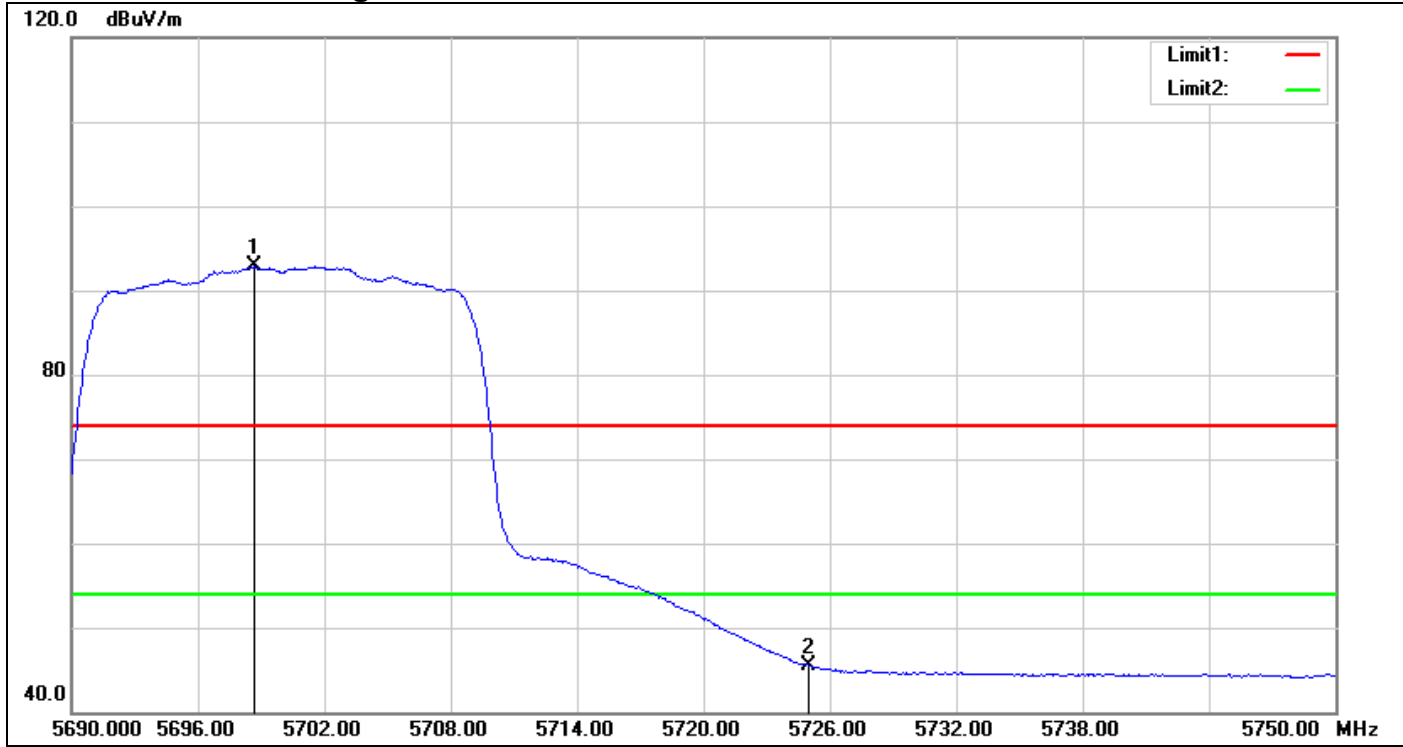
IEEE 802.11n HT20 MHz Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5701.460 | 96.66 | 6.11 | 102.77 | 74.00 | 28.77 | peak |
| 2 | 5725.000 | 53.06 | 6.21 | 59.27 | 74.00 | -14.73 | peak |

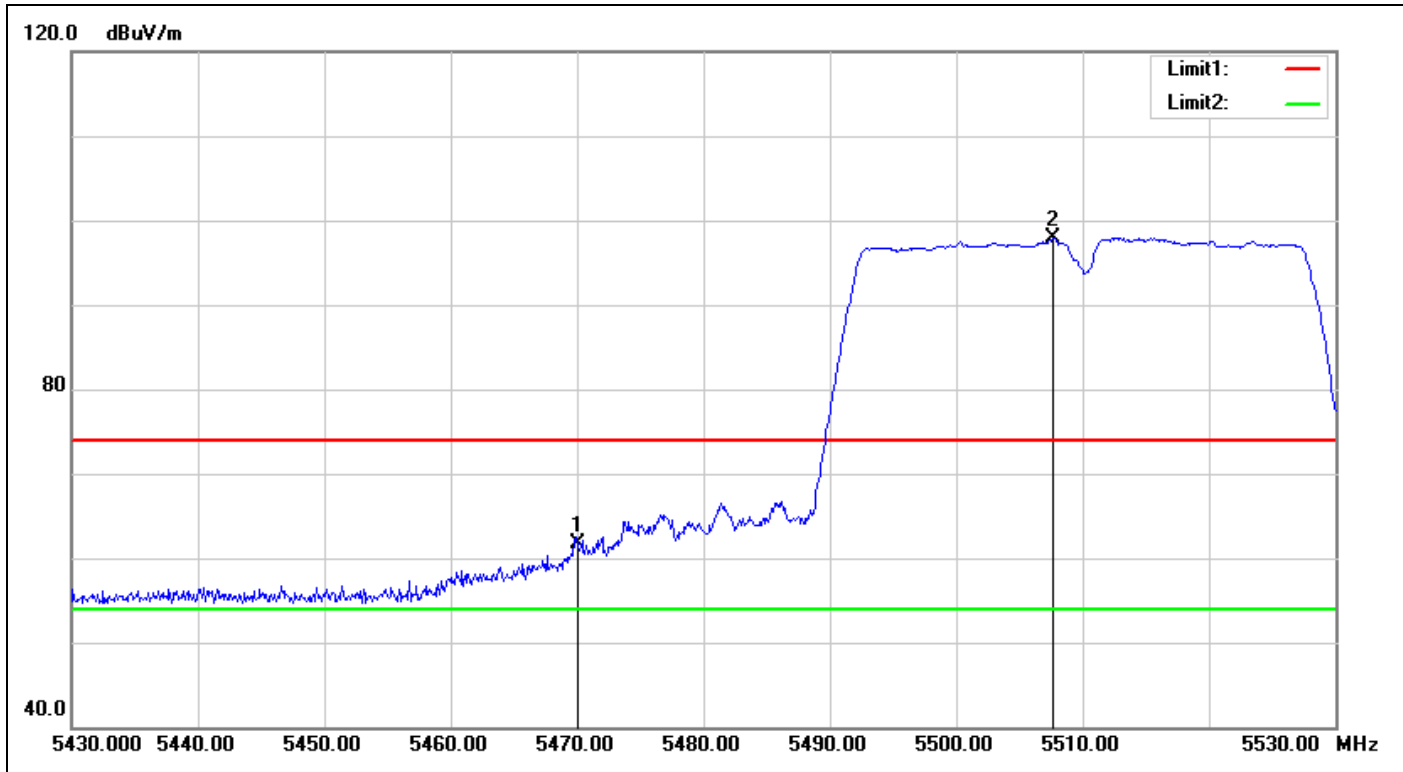
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5698.640 | 86.72 | 6.10 | 92.82 | 54.00 | 38.82 | AVG |
| 2 | 5725.000 | 39.27 | 6.21 | 45.48 | 54.00 | -8.52 | AVG |

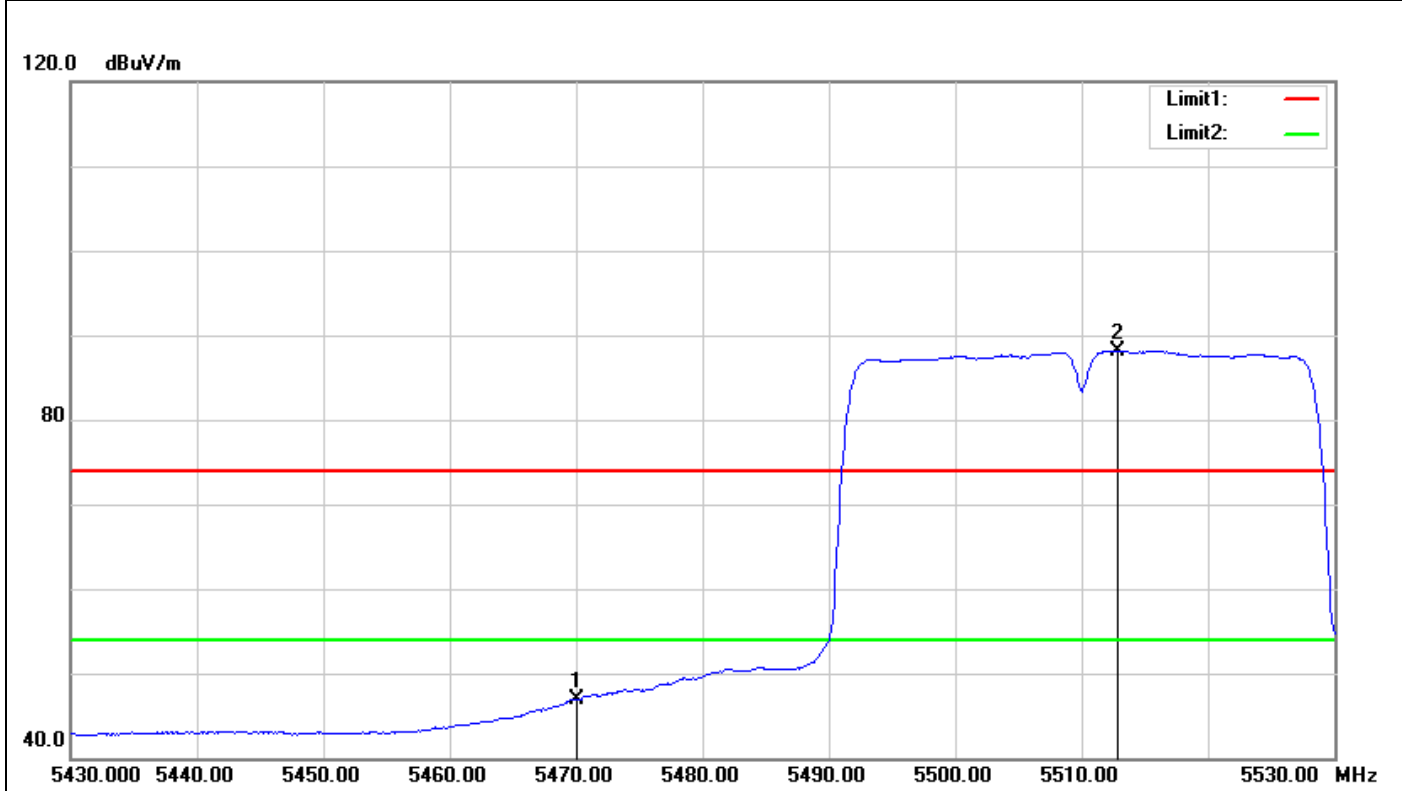
IEEE 802.11n HT40 MHz Mode / CH Low

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1 | 5470.000 | 56.25 | 5.39 | 61.64 | 74.00 | -12.36 | peak |
| 2 | 5507.700 | 92.70 | 5.28 | 97.98 | 74.00 | 23.98 | peak |

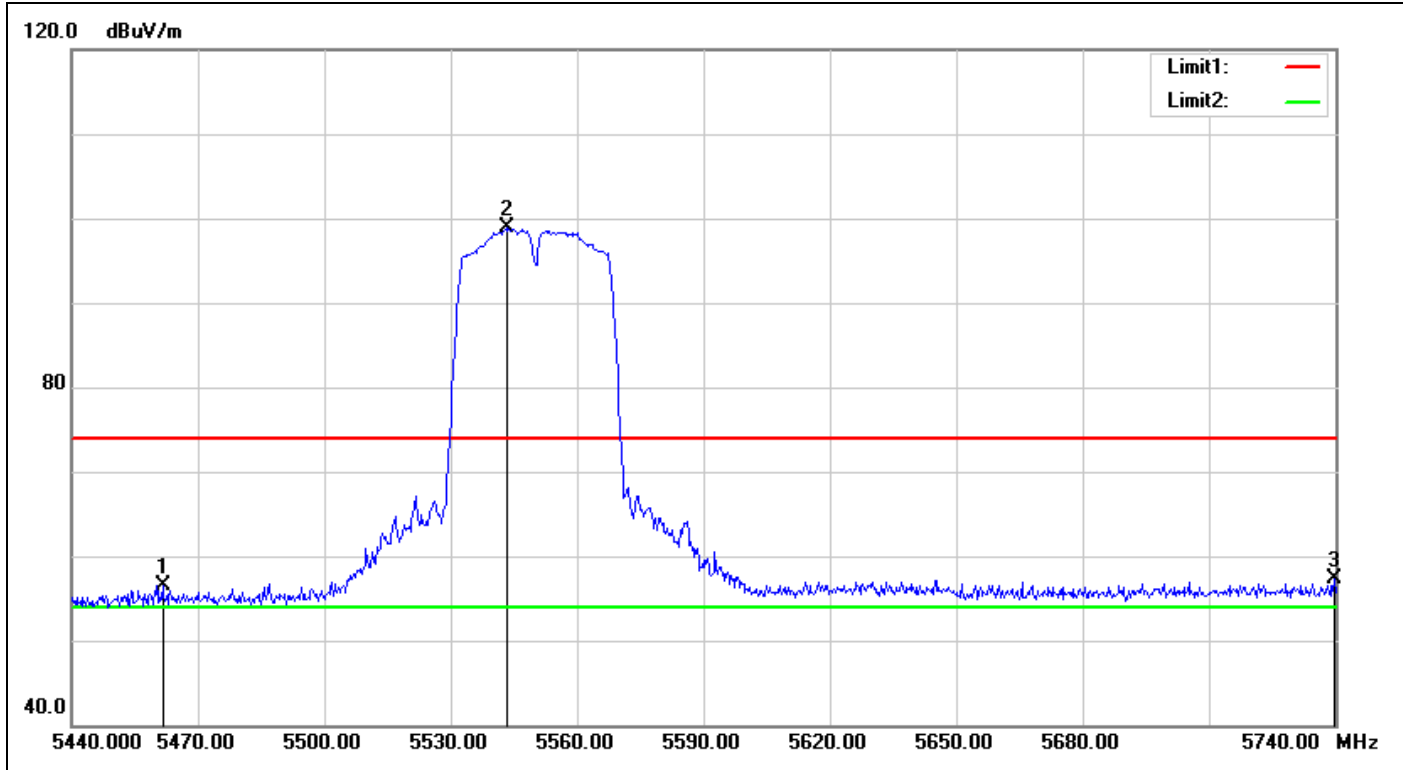
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5470.000 | 41.52 | 5.39 | 46.91 | 54.00 | -7.09 | AVG |
| 2 | 5512.800 | 82.88 | 5.30 | 88.18 | 54.00 | 34.18 | AVG |

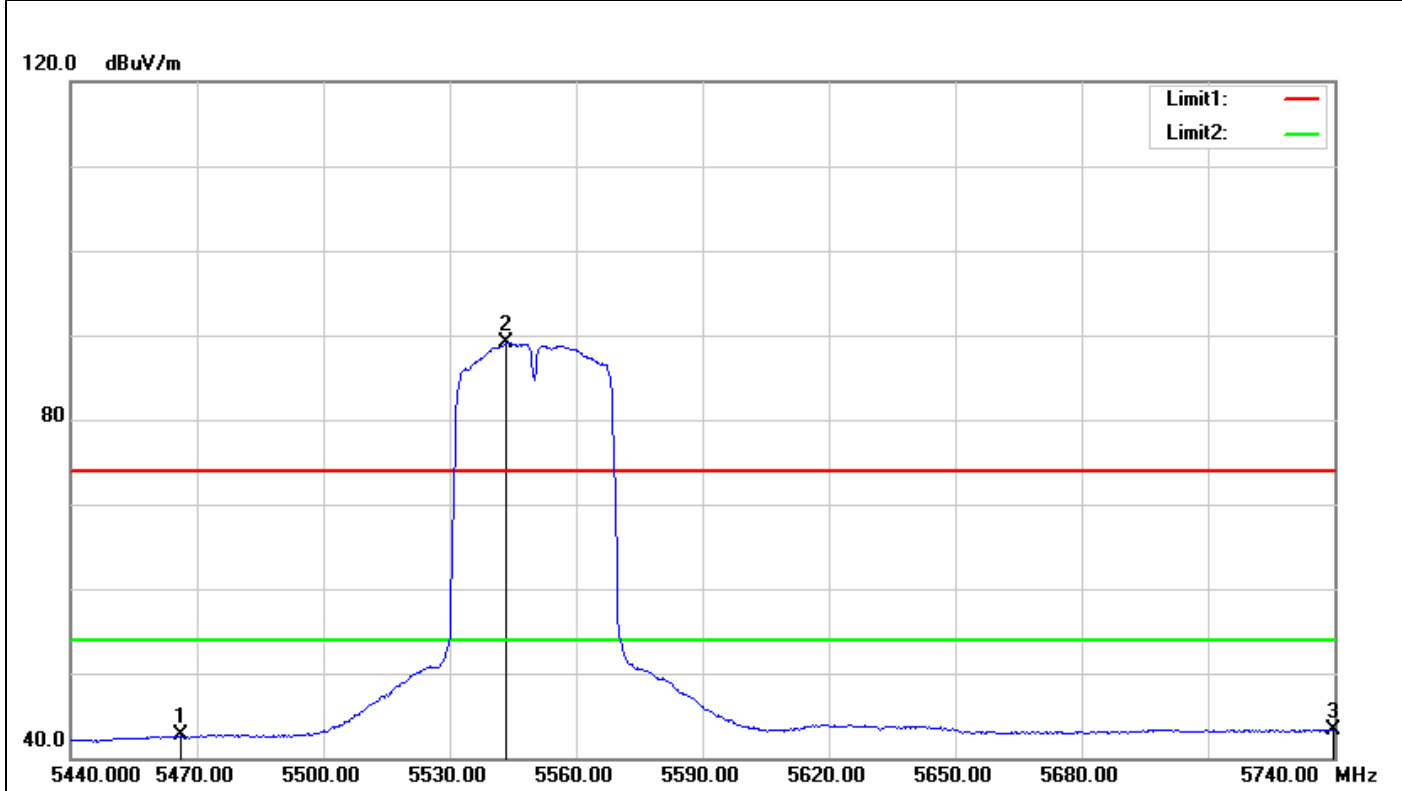
IEEE 802.11n HT40 MHz Mode / CH Mid

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5461.600 | 51.12 | 5.43 | 56.55 | 74.00 | -17.45 | peak |
| 2 | 5543.200 | 93.38 | 5.43 | 98.81 | 74.00 | 24.81 | peak |
| 3 | 5739.700 | 51.07 | 6.27 | 57.34 | 74.00 | -16.66 | peak |

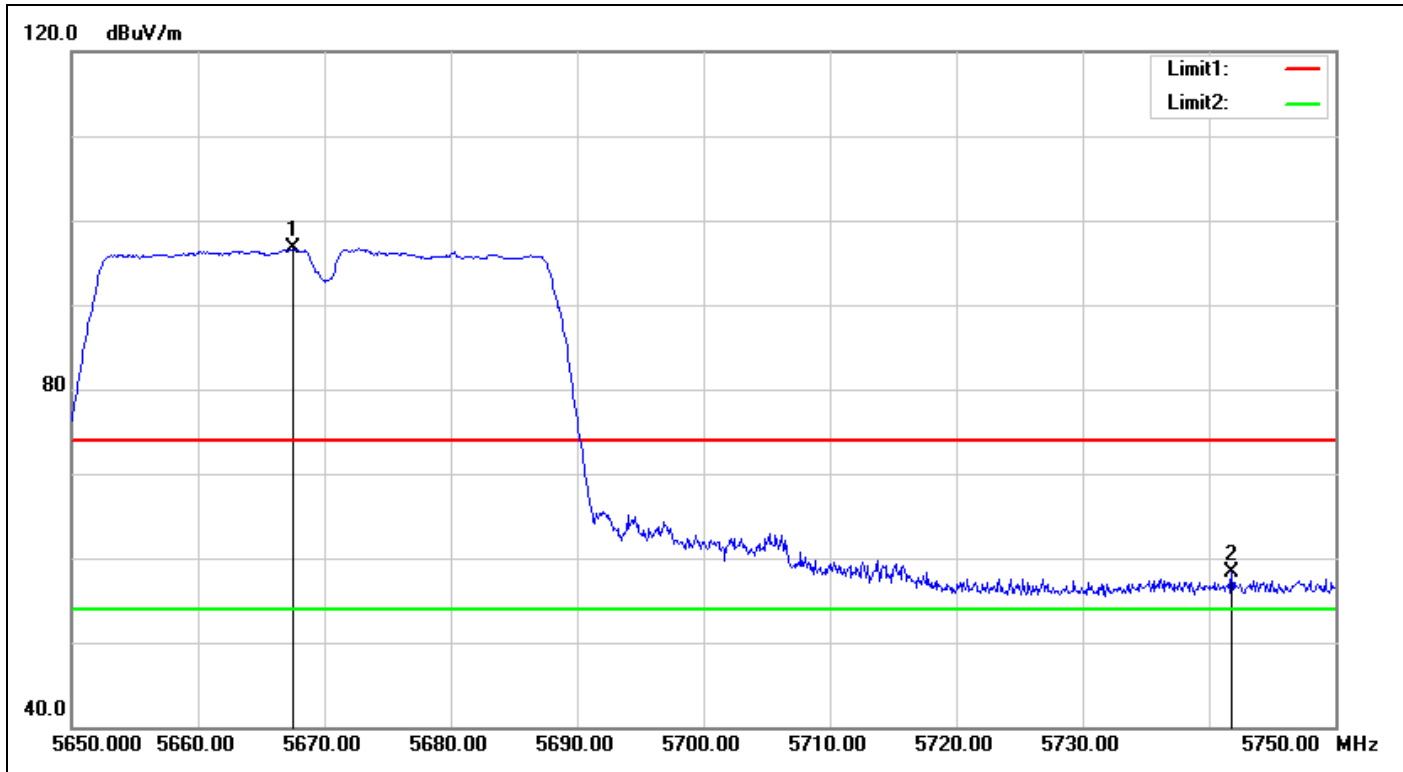
Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5466.100 | 37.22 | 5.41 | 42.63 | 54.00 | -11.37 | AVG |
| 2 | 5543.500 | 83.67 | 5.44 | 89.11 | 54.00 | 35.11 | AVG |
| 3 | 5739.700 | 37.03 | 6.27 | 43.30 | 54.00 | -10.70 | AVG |

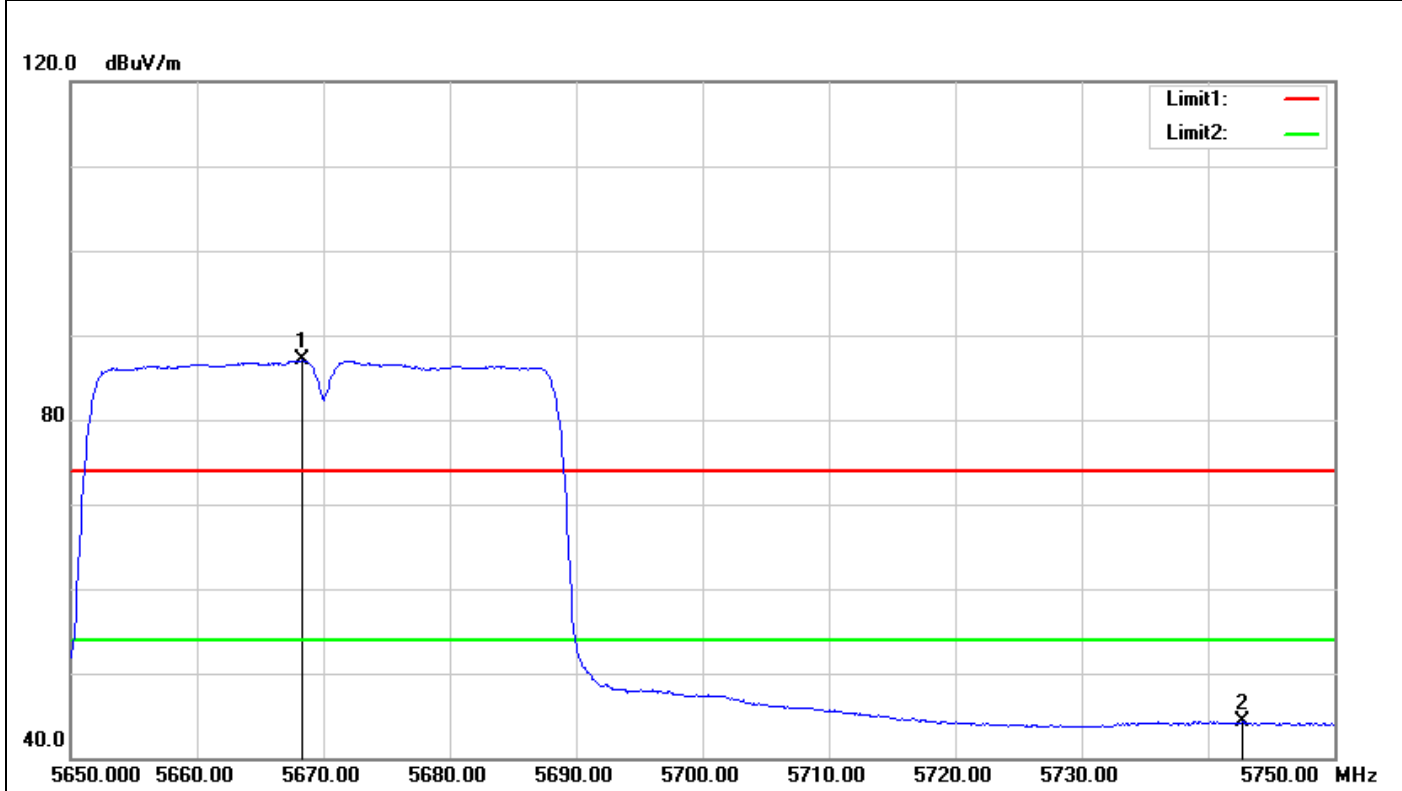
IEEE 802.11n HT40 MHz Mode / CH High

Detector mode: Peak



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5667.500 | 90.71 | 5.96 | 96.67 | 74.00 | 22.67 | peak |
| 2 | 5741.800 | 52.02 | 6.28 | 58.30 | 74.00 | -15.70 | peak |

Detector mode: Average



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 1 | 5668.300 | 81.06 | 5.97 | 87.03 | 54.00 | 33.03 | AVG |
| 2 | 5742.700 | 37.96 | 6.28 | 44.24 | 54.00 | -9.76 | AVG |

7.5 PEAK POWER SPECTRAL DENSITY

LIMIT

According to §15.407(a)

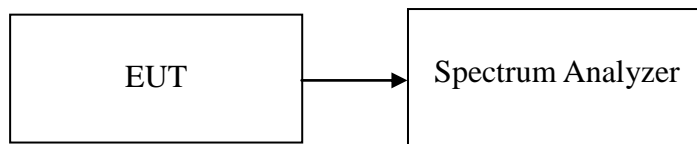
- (1) For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 11dBm in any 1MHz band.
- (2) For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11dBm in any 1MHz band.

According to RSS-247,

- (1) The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
- (2) The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span = Sweep= AUTO
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed

TEST RESULTS

No non-compliance noted

Test Data**Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5180 | 6.70 | 11.00 | PASS |
| Mid | 5220 | 6.38 | 11.00 | PASS |
| High | 5240 | 6.61 | 11.00 | PASS |

Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5180 | 7.03 | 11.00 | PASS |
| Mid | 5220 | 7.02 | 11.00 | PASS |
| High | 5240 | 7.04 | 11.00 | PASS |

Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5190 | 6.51 | 11.00 | PASS |
| High | 5230 | 6.03 | 11.00 | PASS |

Test mode: IEEE 802.11a mode/ 5260 ~ 5320MHz

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5260 | 7.16 | 11.00 | PASS |
| Mid | 5280 | 7.03 | 11.00 | PASS |
| High | 5320 | 6.99 | 11.00 | PASS |

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5260 | 7.28 | 11.00 | PASS |
| Mid | 5280 | 7.25 | 11.00 | PASS |
| High | 5320 | 6.66 | 11.00 | PASS |

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5270 | 7.25 | 11.00 | PASS |
| High | 5310 | 7.02 | 11.00 | PASS |

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5500 | 7.00 | 11.00 | PASS |
| Mid | 5580 | 6.71 | 11.00 | PASS |
| High | 5700 | 6.79 | 11.00 | PASS |

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

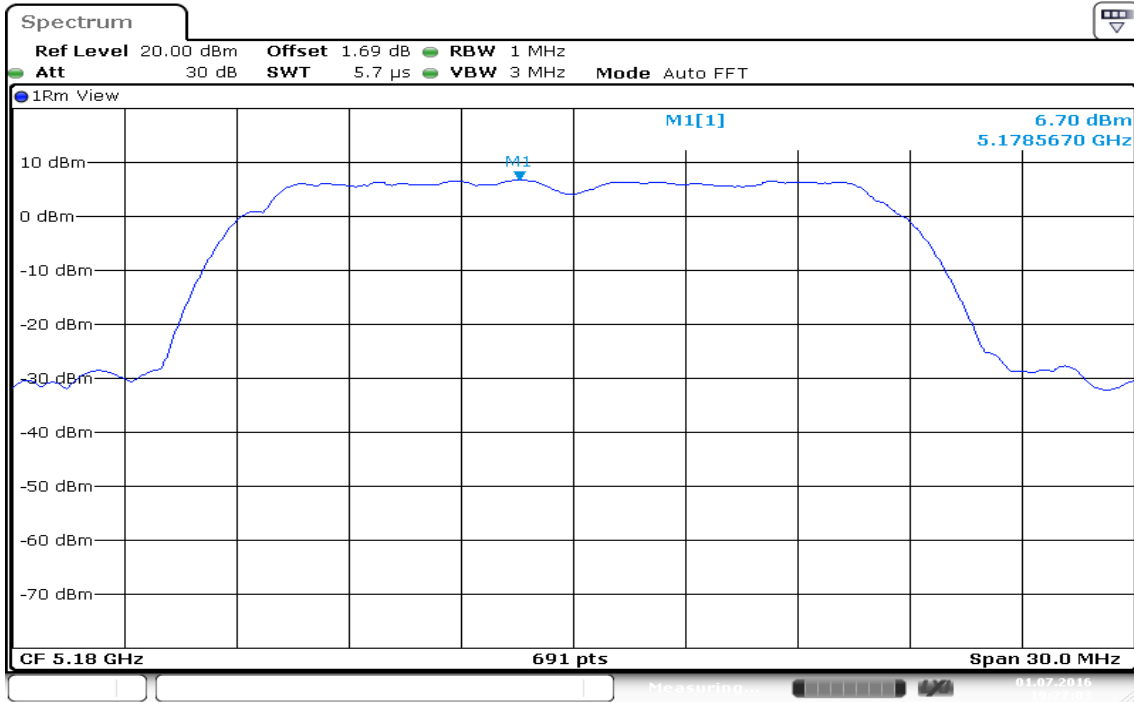
| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5500 | 7.54 | 11.00 | PASS |
| Mid | 5580 | 7.24 | 11.00 | PASS |
| High | 5700 | 6.94 | 11.00 | PASS |

Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

| Channel | Frequency (MHz) | PPSD (dBm) | Limit (dBm) | Result |
|---------|-----------------|------------|-------------|--------|
| Low | 5510 | 4.52 | 11.00 | PASS |
| Mid | 5550 | 5.77 | 11.00 | PASS |
| High | 5670 | 3.58 | 11.00 | PASS |

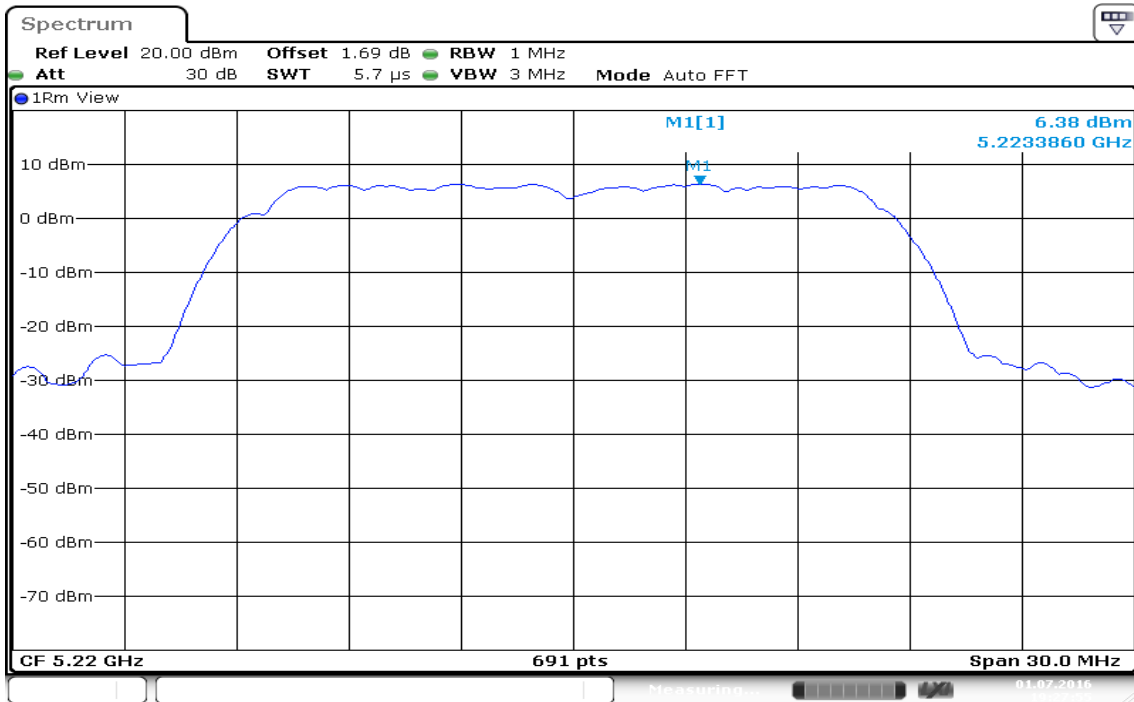
Test Plot
IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low



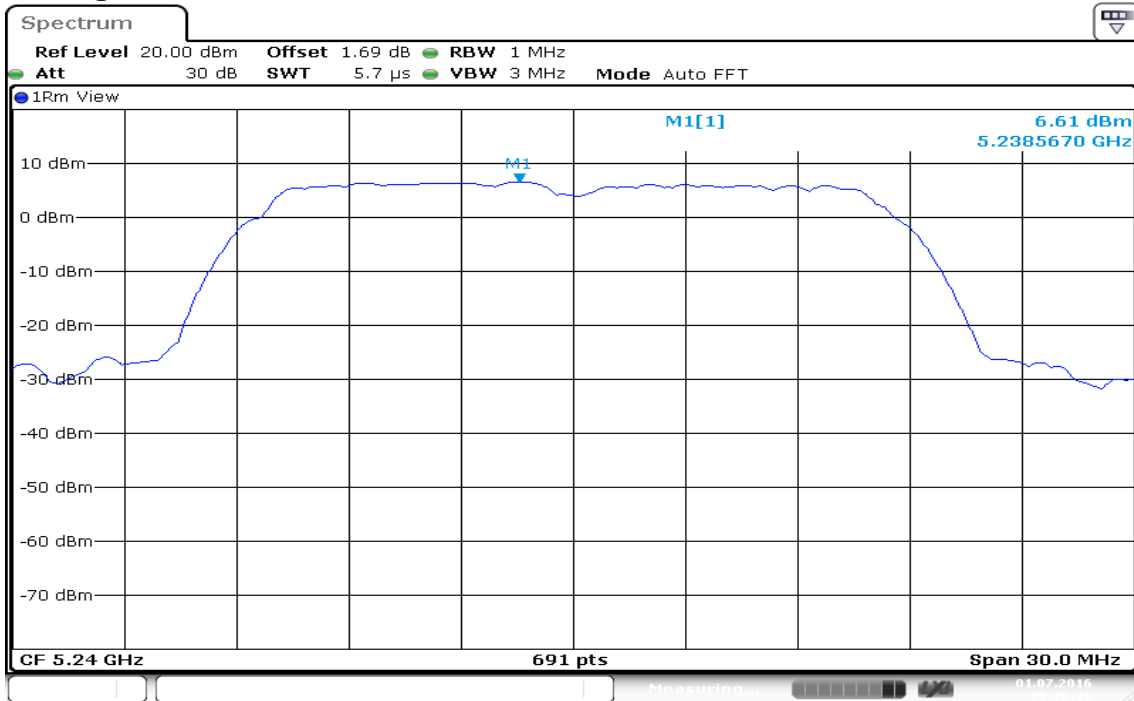
Date: 1.JUL.2016 19:27:03

CH Mid



Date: 1.JUL.2016 19:27:55

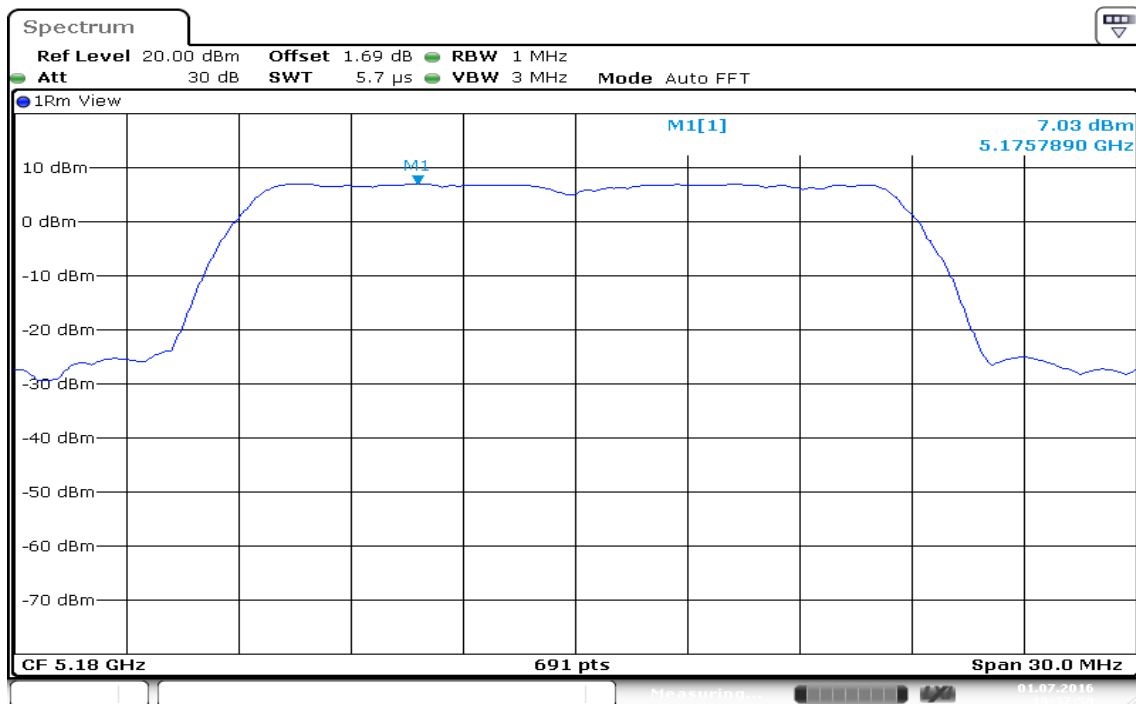
CH High



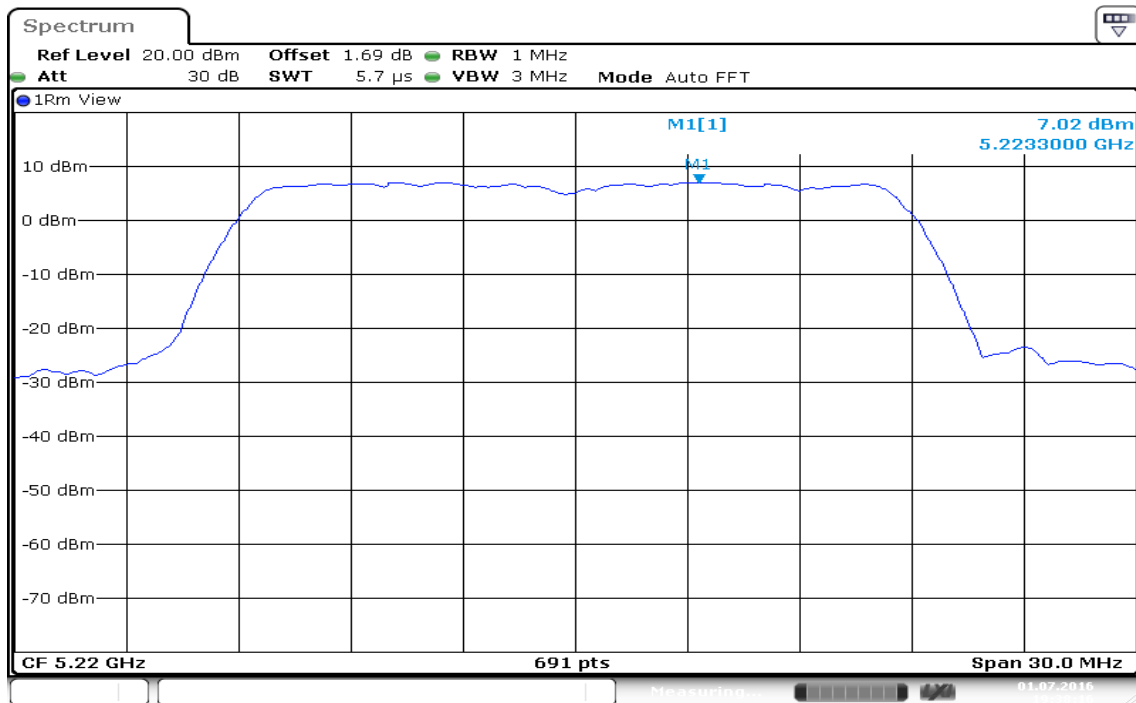
Date: 1.JUL.2016 19:28:36

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

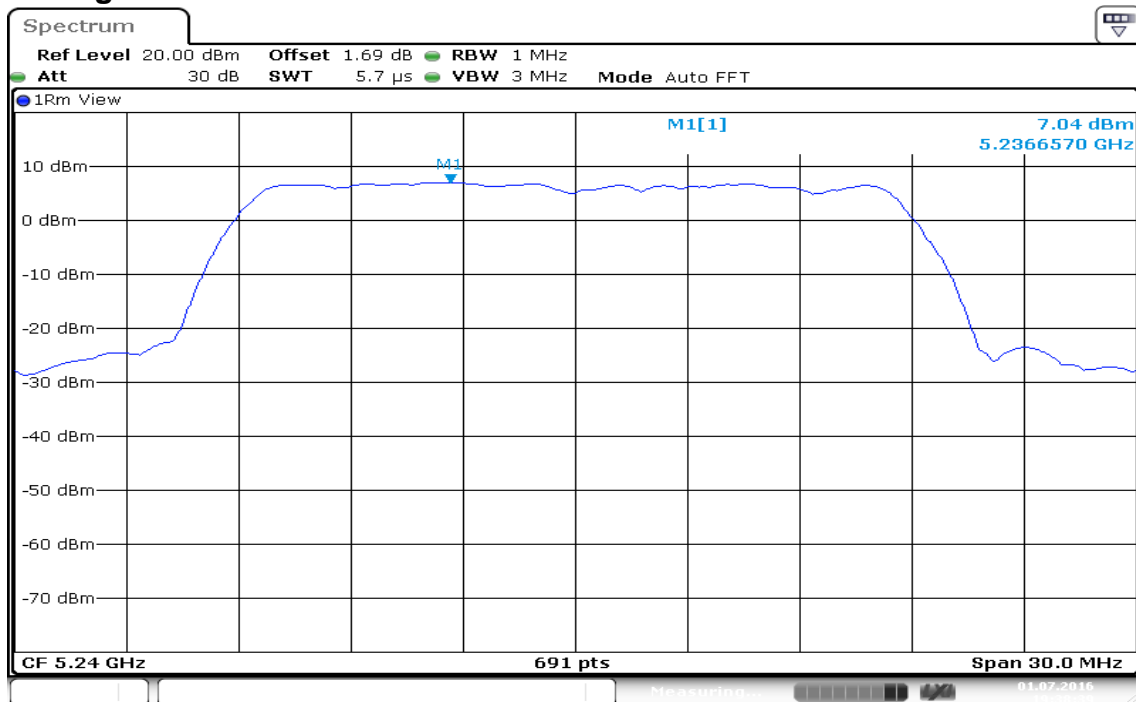
CH Low



CH Mid



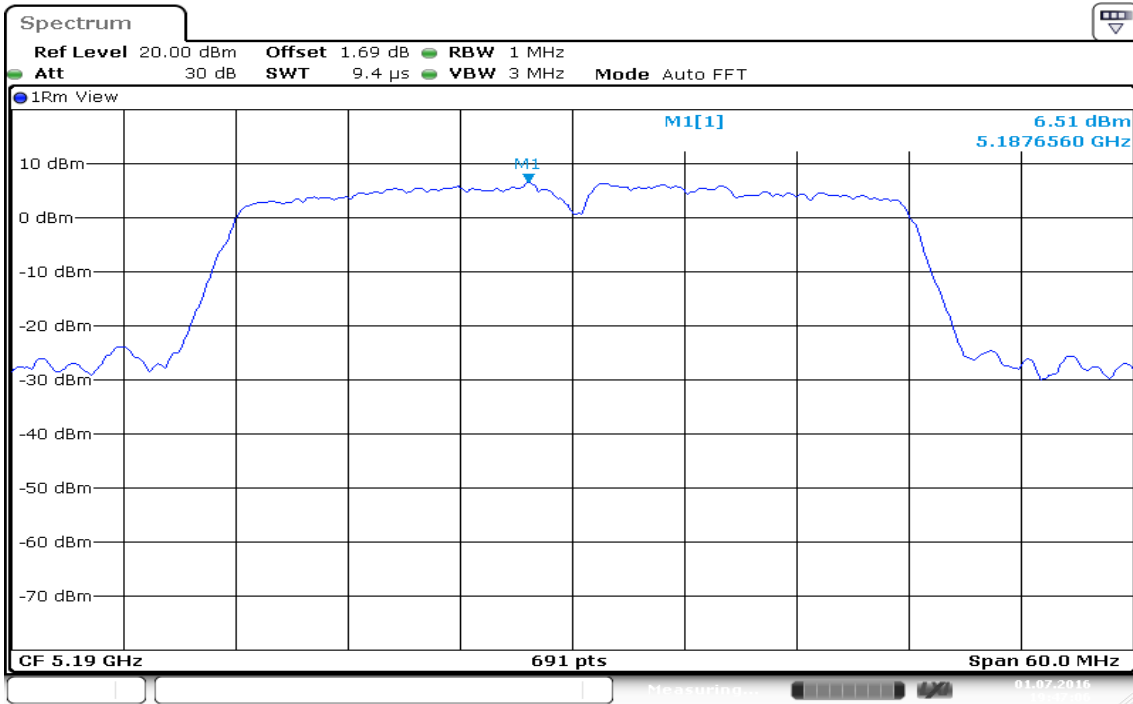
CH High



Date: 1.JUL.2016 19:38:39

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

CH Low



CH High

