

# FCC Radio Test Report

## FCC ID: 2AG7N-MA-WIFI-AZ-V1

This report concerns (check one): ☒Original Grant ☐Class I Change ☐Class II Change

**Project No.** : 1512C237  
**Equipment** : MA\_WiFi  
**Model Name** : MA\_WiFi  
**Applicant** : ST Electronics (Info-Security) Pte Ltd  
**Address** : 100 Jurong East Street 21 ST Electronics Jurong  
East Building Singapore 609602

**Date of Receipt** : Dec. 24, 2015  
**Date of Test** : Dec. 24, 2015 ~ Jan. 27, 2016  
**Issued Date** : Jan. 28, 2016  
**Tested by** : BTL Inc.

**Testing Engineer** : Shawn Xiao  
(Shawn Xiao)

**Technical Manager** : David Mao  
(David Mao)

**Authorized Signatory** : Steven Lu  
(Steven Lu)

# **B T L I N C .**

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### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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### **Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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### REPORT ISSUED HISTORY

| Issued No.          | Description     | Issued Date   |
|---------------------|-----------------|---------------|
| BTL-FCCP-2-1512C237 | Original Issue. | Jan. 28, 2016 |

## 1. CERTIFICATION

Equipment : MA\_WiFi  
Brand Name : N/A  
Model Name : MA\_WiFi  
Applicant : ST Electronics (Info-Security) Pte Ltd  
Date of Test : Jan. 28, 2016 ~ Jan. 28, 2016  
Test Sample : Engineering Sample  
Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.10-2013  
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1512C237) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| FCC Part15, Subpart E  |                                   |          |                 |
|------------------------|-----------------------------------|----------|-----------------|
| Standard(s)<br>Section | Test Item                         | Judgment | Remark          |
| 15.207                 | AC Power Line Conducted Emissions | N/A      | <b>NOTE (1)</b> |
| 15.407(a)              | 26dB Spectrum Bandwidth           | PASS     |                 |
| 15.407(a)              | Maximum Conducted Output Power    | PASS     |                 |
| 15.407(a)              | Power Spectral Density            | PASS     |                 |
| 15.407(a)              | Radiated Emissions                | PASS     |                 |
| 15.407(b)              | Band Edge Emissions               | PASS     |                 |
| 15.407(g)              | Frequency Stability               | PASS     |                 |
| 15.203                 | Antenna Requirements              | PASS     |                 |

**NOTE:**

(1)" N/A" denotes test is not applicable in this test report.



## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. 523792  
BTL's test firm number for FCC: 319330

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{CISPR}}$  requirement.

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

### A. Radiated Measurement:

| Test Site       | Method | Measurement Frequency Range | Ant.<br>H / V | U,(dB) |
|-----------------|--------|-----------------------------|---------------|--------|
| DG-CB03<br>(3m) | CISPR  | 9KHz ~ 30MHz                | V             | 3.79   |
|                 |        | 9KHz ~ 30MHz                | H             | 3.57   |
|                 |        | 30MHz ~ 200MHz              | V             | 3.82   |
|                 |        | 30MHz ~ 200MHz              | H             | 3.78   |
|                 |        | 200MHz ~ 1,000MHz           | V             | 4.10   |
|                 |        | 200MHz ~ 1,000MHz           | H             | 4.06   |

| Test Site       | Method | Measurement Frequency Range | Ant.<br>H / V | U,(dB) |
|-----------------|--------|-----------------------------|---------------|--------|
| DG-CB03<br>(3m) | CISPR  | 1GHz ~ 18GHz                | V             | 3.12   |
|                 |        | 1GHz ~ 18GHz                | H             | 3.68   |
|                 |        | 18GHz ~ 40GHz               | V             | 4.15   |
|                 |        | 18GHz ~ 40GHz               | H             | 4.14   |

Note: unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                     |                                |   |
|---------------------|--------------------------------|---|
| Equipment           | MA_WiFi                        |   |
| Brand Name          | N/A                            |   |
| Model Name          | MA_WiFi                        |   |
| Mode Different      | N/A                            |   |
| Product Description | Operation Frequency            | UNII-1: 5150-5250MHz<br>UNII-3: 5725-5850MHz                            |
|                     | Modulation Type                | OFDM  |
|                     | Bit Rate of Transmitter        | 300Mbps   |
| Power Source        | Supplied from DC power source. |   |
| Power Rating        | DC 5V                          |   |
| Output Power        | Output Power (Max.)for UNII-1  | 802.11a: 13.84dBm<br>802.11n 20MHz: 13.42dBm<br>802.11n 40MHz: 12.85dBm |
|                     | Output Power (Max.)for UNII-3  | 802.11a: 14.09dBm<br>802.11n 20MHz: 13.93dBm<br>802.11n 40MHz: 13.08dBm |

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Channel List:

| UNII-1  |                 | UNII-1  |                 |
|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 36      | 5180            | 38      | 5190            |
| 40      | 5200            | 46      | 5230            |
| 44      | 5220            |         |                 |
| 48      | 5240            |         |                 |

| UNII-3  |                 | UNII-3  |                 |
|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 149     | 5745            | 151     | 5755            |
| 153     | 5765            | 159     | 5795            |
| 157     | 5785            |         |                 |
| 161     | 5805            |         |                 |
| 165     | 5825            |         |                 |

### 3. Antenna Specification:

| Ant. | Brand  | Model Name     | Antenna Type | Connector | Gain (dBi) |
|------|--------|----------------|--------------|-----------|------------|
| 1    | WALSIN | ST MA_WIFI(AZ) | Chip         | N/A       | 4          |
| 2    | WALSIN | ST MA_WIFI(AZ) | Chip         | N/A       | 4          |

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = GANT, that is Directional gain=4.
2. ANT 1 for 1TX was found to be the worst case and recorded.

4.

| Operating Mode  | 1TX       | 2TX             |
|-----------------|-----------|-----------------|
| TX Mode         |           |                 |
| 802.11a         | V (ANT 1) | -               |
| 802.11n (20MHz) | -         | V (ANT 1+ANT 2) |
| 802.11n (40MHz) | -         | V (ANT 1+ANT 2) |

### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Test Mode | Description                              |
|-------------------|--|
| Mode 1            | TX A Mode / CH36, CH40, CH48 (UNII-1)    |
| Mode 2            | TX N20 Mode / CH36, CH40, CH48 (UNII-1)  |
| Mode 3            | TX N40 Mode / CH38, CH46 (UNII-1)        |
| Mode 4            | TX A Mode / CH149,CH157,CH165 (UNII-3)   |
| Mode 5            | TX N20 Mode / CH149,CH157,CH165 (UNII-3) |
| Mode 6            | TX N40 Mode / CH151,CH159 (UNII-3)       |
| Mode 7            | TX Mode                                  |

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

| For Conducted Test |             |
|--------------------|-------------|
| Final Test Mode    | Description |
| Mode 7             | TX Mode     |

| For Radiated Test |  |
|-------------------|--|
| Final Test Mode   | Description                              |
| Mode 1            | TX A Mode / CH36, CH40, CH48 (UNII-1)    |
| Mode 2            | TX N20 Mode / CH36, CH40, CH48 (UNII-1)  |
| Mode 3            | TX N40 Mode / CH38, CH46 (UNII-1)        |
| Mode 4            | TX A Mode / CH149,CH157,CH165 (UNII-3)   |
| Mode 5            | TX N20 Mode / CH149,CH157,CH165 (UNII-3) |
| Mode 6            | TX N40 Mode / CH151,CH159 (UNII-3)       |

Note:

(1) For radiated below 1GHz test, the 802.11a mode is found to be the worst case and recorded.

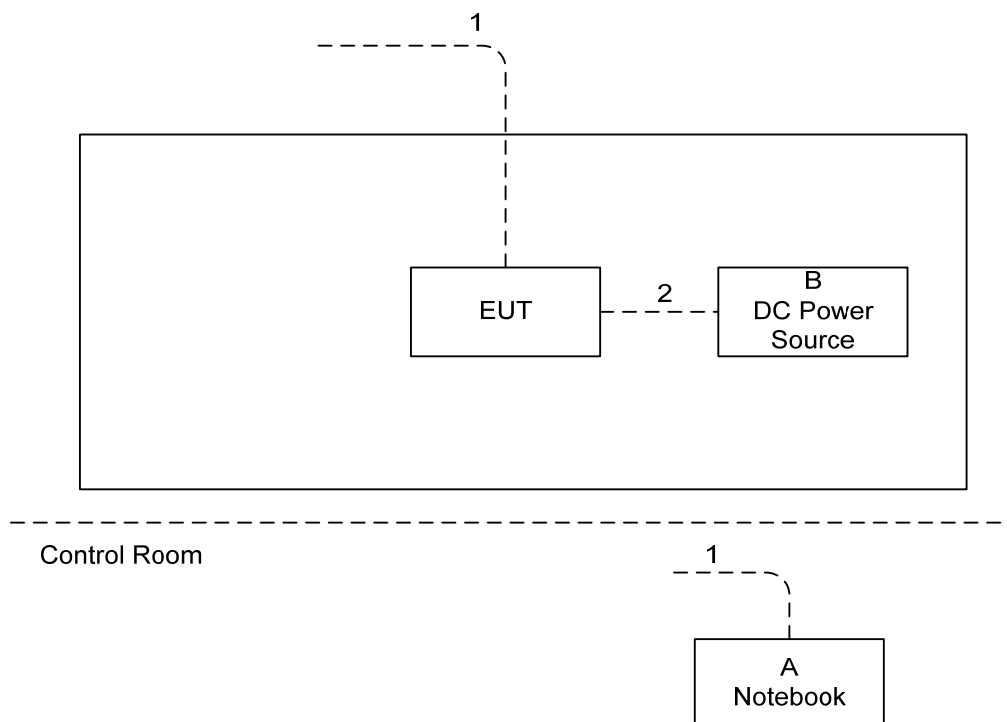
### 3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

| UNII-1                |        |      |      |
|-----------------------|--------|------|------|
| Test Software Version | artgui |      |      |
| Frequency (MHz)       | 5180   | 5200 | 5240 |
| A Mode                | 15     | 14   | 13   |
| N20 Mode              | 13.5   | 13   | 13   |
| Frequency (MHz)       | 5190   | 5230 |      |
| N40 Mode              | 12     | 11.5 |      |

| UNII-3                |        |      |      |
|-----------------------|--------|------|------|
| Test Software Version | artgui |      |      |
| Frequency (MHz)       | 5745   | 5785 | 5825 |
| A Mode                | 12     | 13   | 13   |
| N20 Mode              | 8      | 9.5  | 11   |
| Frequency (MHz)       | 5755   | 5795 |      |
| N40 Mode              | 7.5    | 8.5  |      |

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment       | Mfr/Brand | Model/Type No. | FCC ID | Series No. |
|------|-----------------|-----------|----------------|--------|------------|
| A    | Notebook        | Lenovo    | H2510          | DOC    | SS07999198 |
| B    | DC Power Source | N/A       | DPC-3030DN     | N/A    | N/A        |

| Item | Shielded Type | Ferrite Core | Length | Note        |
|------|---------------|--------------|--------|-------------|
| 1    | NO            | NO           | 10m    | RJ-45 Cable |
| 2    | NO            | NO           | 1.2m   | Data Cable  |

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150kHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |           |
|-----------------|----------------|---------|----------------|-----------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average   |
| 0.15 -0.5       | 79.00          | 66.00   | 66 - 56 *      | 56 - 46 * |
| 0.50 -5.0       | 73.00          | 60.00   | 56.00          | 46.00     |
| 5.0 -30.0       | 73.00          | 60.00   | 60.00          | 50.00     |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

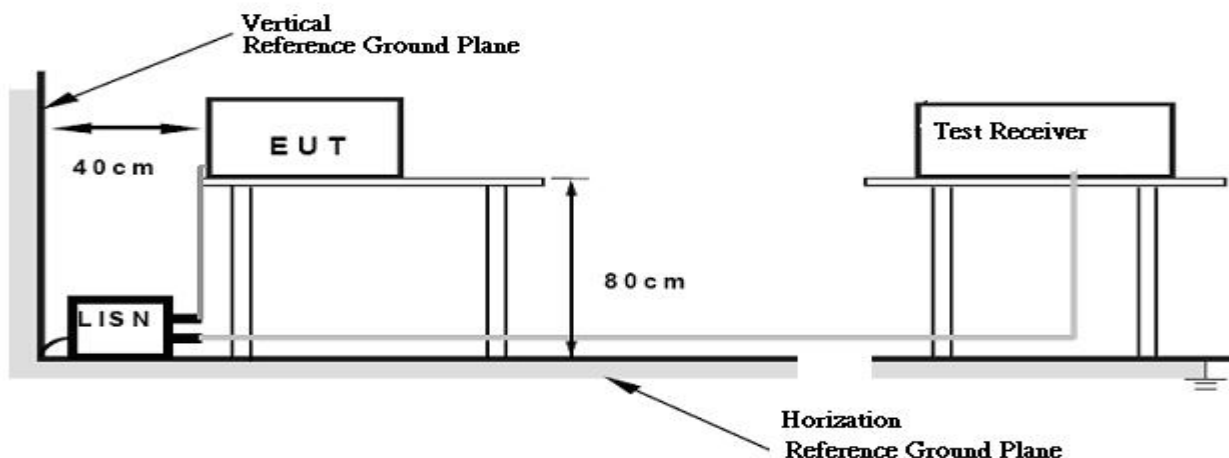
#### 4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX Mode mode.

#### 4.1.6 EUT TEST CONDITIONS

Temperature: N/A Relative Humidity: N/A Test Voltage: N/A

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “\*” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150kHz to 30MHz.



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS

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

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

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.

#### LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| Frequencies<br>(MHz) | EIRP Limit (dBm)                       | Equivalent Field Strength<br>at 3m (dBμV/m) |
|----------------------|--|---|
| 5150-5250            | -27                                    | 68.3  |
| 5250-5350            | -27                                    | 68.3  |
| 5470-5725            | -27                                    | 68.3  |
| 5725-5850            | -27 (beyond 10MHz of the<br>band edge) | 68.3  |
|                      | -17 (within 10 MHz of<br>band edge)    | 78.3  |

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field

strength:  $E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m}$ , where P is the eirp (Watts)

#### 4.2.2 TEST PROCEDURE

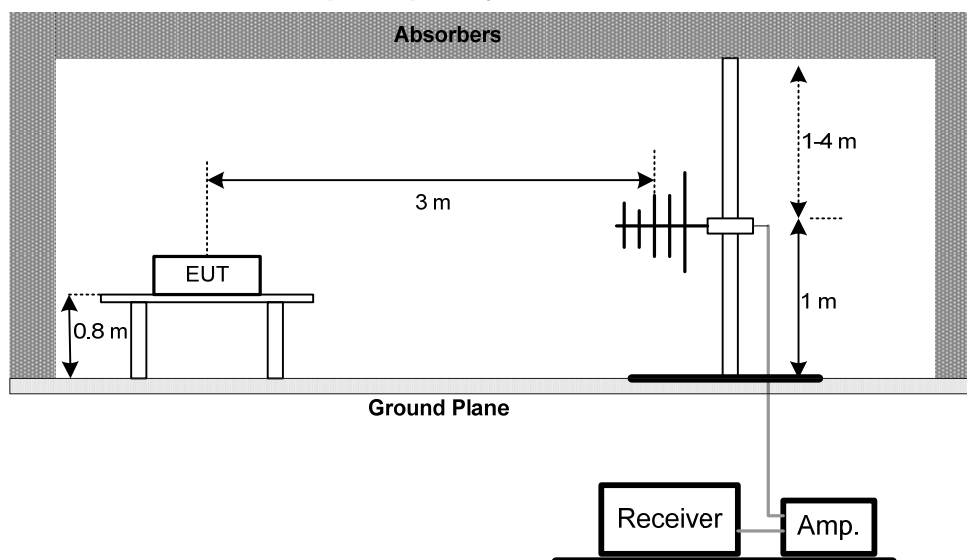
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

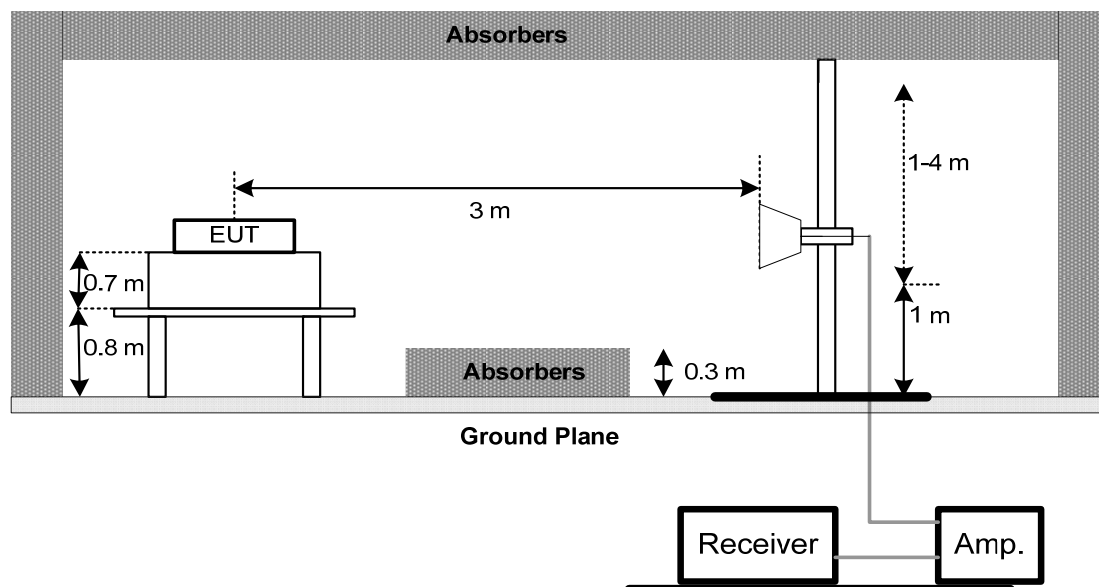
No deviation

#### 4.2.4 TEST SETUP

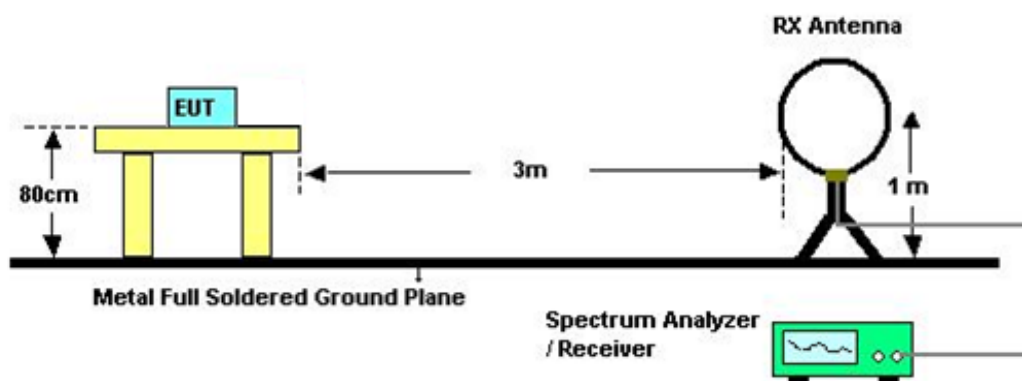
##### (A) Radiated Emission Test Set-Up Frequency Below 1GHz



## (B) Radiated Emission Test Set-Up Frequency Above 1 GHz



## (C) Radiated emissions below 30MHz



### 4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 4.2.6 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 56%    Test Voltage: DC 5V

#### 4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 4.2.8 TEST RESULTS (30 TO 1000 MHz)

Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120kHz ; SPA setting in RBW=120kHz, VBW =120kHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦

#### 4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

- (1) Spectrum Setting: 30MHz – 1000MHz , RBW= 100kHz, VBW=100kHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown “ \* ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.
- (8) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. 26dB SPECTRUM BANDWIDTH

### 5.1 APPLIED PROCEDURES / LIMIT

| FCC Part15, Subpart E |                              |                       |        |
|-----------------------|------------------------------|-----------------------|--------|
| Test Item             | Limit                        | Frequency Range (MHz) | Result |
| Bandwidth             | 26 dB Bandwidth              | 5150-5250             | PASS   |
|                       | Minimum 500kHz 6dB Bandwidth | 5725-5850             | PASS   |

#### 5.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

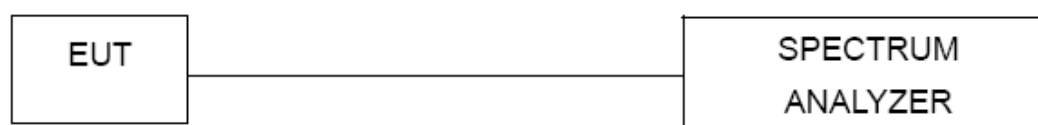
| Spectrum Parameters | Setting          |
|---------------------|------------------|
| Attenuation         | Auto             |
| Span Frequency      | > 26dB Bandwidth |
| RBW                 | 300 kHz          |
| VBW                 | 1000 kHz         |
| Detector            | Peak             |
| Trace               | Max Hold         |
| Sweep Time          | Auto             |

c. Measured the spectrum width with power higher than 26dB below carrier

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

#### 5.1.5 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 56%    Test Voltage: DC 5V

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM CONDUCTED OUTPUT POWER

### 6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15, Subpart E  |   |                       |        |
|--|---|-----------------------|--------|
| Test Item  | Limit   | Frequency Range (MHz) | Result |
| Conducted Output Power   | Fixed:1 Watt (30dBm)<br>Mobile and portable:<br>250mW (24dBm) | 5150-5250             | PASS   |
|  | 1 Watt (30dBm)  | 5725-5850             | PASS   |
| Note: The maximum e.i.r.p at anyelevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm) |   |                       |        |

#### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b.

| Spectrum Parameter | Setting  |
|--------------------|--|
| Attenuation        | Auto   |
| Span Frequency     | Encompass the entire emissions bandwidth (EBW) of the signal |
| RBW                | = 1MHz.  |
| VBW                | $\geq$ 3MHz.   |
| Detector           | RMS  |
| Trace              | Max Hold   |
| Sweep Time         | auto   |

- c. Test was performed in accordance with method of KDB 789033 D02.

### 6.1.2 DEVIATION FROM STANDARD

No deviation.

### 6.1.3 TEST SETUP



### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 6.1.5 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 56%    Test Voltage: DC 5V

### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

| FCC Part15, Subpart E               |  |                       |        |
|-------------------------------------|--|-----------------------|--------|
| Test Item                           | Limit  | Frequency Range (MHz) | Result |
| Antenna conducted Spurious Emission | -27dBm/MHz   | 5150-5250             | PASS   |
|                                     | Below -17dBm/MHz within 10MHz of band edge, below -27dBm/MHz beyond 10MHz of the band edge | 5725-5850             | PASS   |

#### 7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

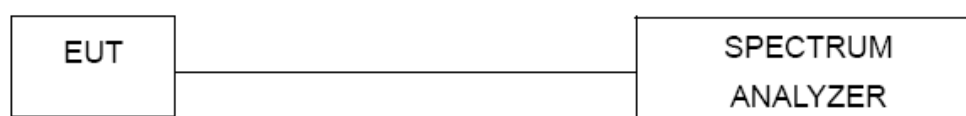
b.

| Spectrum Parameter | Setting  |
|--------------------|----------|
| Attenuation        | Auto     |
| RBW                | 1000kHz  |
| VBW                | 1000kHz  |
| Trace              | Max Hold |
| Sweep Time         | Auto     |

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

#### 7.1.5 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 56%    Test Voltage: DC 5V

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.



## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15, Subpart E  |   |                       |        |
|------------------------|---|-----------------------|--------|
| Test Item              | Limit   | Frequency Range (MHz) | Result |
| Power Spectral Density | Other then Mobile and portable:17dBm/MHz<br>Mobile and portable:11dBm/MHz | 5150-5250             | PASS   |
|                        | 30dBm/500kHz  | 5725-5850             | PASS   |

#### 8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

| Spectrum Parameter | Setting  |
|--------------------|--|
| Attenuation        | Auto   |
| Span Frequency     | Encompass the entire emissions bandwidth (EBW) of the signal |
| RBW                | = 1MHz.  |
| VBW                | ≥ 3MHz.  |
| Detector           | RMS  |
| Trace              | Max Hold   |
| Sweep Time         | Auto   |

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
- The value measured with RBW=1MHz is to be added with  $10\log(500\text{kHz}/1\text{MHz})$  which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

### 8.1.1 DEVIATION FROM STANDARD

No deviation.

### 8.1.2 TEST SETUP



### 8.1.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 8.1.4 EUT TEST CONDITIONS

Temperature: 22°C    Relative Humidity: 56%    Test Voltage: DC 5V

### 8.1.5 TEST RESULTS

Please refer to the Attachment H.

## 9. FREQUENCY STABILITY MEASUREMENT

### 9.1 APPLIED PROCEDURES / LIMIT

| FCC Part15, Subpart E |                                |                       |        |
|-----------------------|--------------------------------|-----------------------|--------|
| Test Item             | Limit                          | Frequency Range (MHz) | Result |
| Frequency Stability   | Specified in the user's manual | 5150-5250             | PASS   |
|                       |                                | 5725-5850             | PASS   |

#### 9.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

| Spectrum Parameter | Setting  |
|--------------------|--|
| Attenuation        | Auto   |
| Span Frequency     | Entire absence of modulation emissions bandwidth |
| RBW                | 10 kHz   |
| VBW                | 10 kHz   |
| Sweep Time         | Auto   |

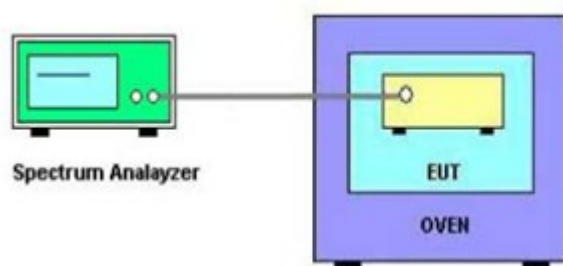
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~50°C.

#### 9.1.2 DEVIATION FROM STANDARD

No deviation.

#### 9.1.3 TEST SETUP



#### **9.1.4 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

#### **9.1.5 EUT TEST CONDITIONS**

Temperature: 25°C    Relative Humidity: 55%    Test Voltage: DC 5V

#### **9.1.6 TEST RESULTS**

Please refer to the Attachment I.

## 10. MEASUREMENT INSTRUMENTS LIST

| Conducted Emission Measurement |                      |              |                          |            |                  |
|--------------------------------|----------------------|--------------|--------------------------|------------|------------------|
| Item                           | Kind of Equipment    | Manufacturer | Type No.                 | Serial No. | Calibrated until |
| 1                              | LISN                 | EMCO         | 3816/2                   | 00052765   | Mar. 28, 2016    |
| 2                              | LISN                 | R&S          | ENV216                   | 101447     | Mar. 28, 2016    |
| 3                              | Test Cable           | N/A          | C_17                     | N/A        | Mar. 13, 2016    |
| 4                              | EMI TEST RECEIVER    | R&S          | ESCS30                   | 833364/017 | Mar. 28, 2016    |
| 5                              | 50Ω Terminator       | SHX          | TF2-3G-A                 | 08122902   | Mar. 28, 2016    |
| 6                              | Measurement Software | Farad        | EZ-EMC<br>Ver.NB-03A1-01 | N/A        | N/A              |

| Radiated Emission Measurement |                                     |                |  |                  |                  |
|-------------------------------|-------------------------------------|----------------|--|------------------|------------------|
| Item                          | Kind of Equipment                   | Manufacturer   | Type No.                                 | Serial No.       | Calibrated until |
| 1                             | Antenna                             | Schwarbeck     | VULB9160                                 | 9160-3232        | Mar. 28, 2016    |
| 2                             | Amplifier                           | HP             | 8447D                                    | 2944A09673       | Nov. 09, 2016    |
| 3                             | Receiver                            | AGILENT        | N9038A                                   | MY52130039       | Oct. 11, 2016    |
| 4                             | Test Cable                          | emci           | LMR-400(30MH<br>z-1GHz)                  | C-01             | Jun. 28, 2016    |
| 5                             | Controller                          | CT             | SC100                                    | N/A              | N/A              |
| 6                             | Antenna                             | ETS            | 3115                                     | 00075789         | Mar. 28, 2016    |
| 7                             | Amplifier                           | Agilent        | 8449B                                    | 3008A02274       | Nov. 01, 2016    |
| 8                             | Receiver                            | AGILENT        | N9038A                                   | MY52130039       | Oct. 11, 2016    |
| 9                             | Test Cable                          | emci           | EMC104-SM-S<br>M-10000(1GHz-<br>26.5GHz) | C-68             | Jun. 28, 2016    |
| 10                            | Controller                          | CT             | SC100                                    | N/A              | N/A              |
| 11                            | Broad-Band Horn Antenna             | Schwarzbeck    | BBHA 9170                                | 9170319          | Mar. 28, 2016    |
| 12                            | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045                               | 980039 &<br>HA01 | Mar. 28, 2016    |
| 13                            | Active Loop Antenna                 | R&S            | HFH2-Z2                                  | 830749/020       | Sep. 07, 2016    |
| 14                            | Measurement Software                | Farad          | EZ-EMC<br>Ver.NB-03A1-01                 | N/A              | N/A              |

| Spectrum Bandwidth Measurement |                   |              |          |            |                  |
|--------------------------------|-------------------|--------------|----------|------------|------------------|
| Item                           | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1                              | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Oct. 11, 2016    |

| Maximum Conducted Output Power Measurement |                    |              |          |            |                  |
|--|--------------------|--------------|----------|------------|------------------|
| Item                                       | Kind of Equipment  | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1  | power Meter        | ANRITSU      | ML2495A  | 1128009    | Mar. 28, 2016    |
| 2  | Pulse Power Sensor | ANRITSU      | MA 2411B | 1027500    | Mar. 28, 2016    |

| Antenna Conducted Spurious Emission Measurement |                   |              |          |            |                  |
|---|-------------------|--------------|----------|------------|------------------|
| Item  | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1   | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Oct. 11, 2016    |

| Power Spectral Density Measurement |                   |              |          |            |                  |
|------------------------------------|-------------------|--------------|----------|------------|------------------|
| Item                               | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1                                  | Spectrum Analyzer | R&S          | FSP 40   | 100185     | Oct. 11, 2016    |

| Frequency Stability Measurement |                                |              |              |             |                  |
|---------------------------------|--------------------------------|--------------|--------------|-------------|------------------|
| Item                            | Kind of Equipment              | Manufacturer | Type No.     | Serial No.  | Calibrated until |
| 1                               | Spectrum Analyzer              | R&S          | FSP 40       | 100185      | Oct. 11, 2016    |
| 2                               | Const Temp. & Humidity Chamber | Giant Force  | ITH-225-20-S | IAB0309-001 | Dec. 04, 2016    |

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of equipment list is one year.

## 11. EUT TEST PHOTOS

### Radiated Measurement Photos

9kHz to 30MHz





## Radiated Measurement Photos

30MHz to 1000MHz





## Radiated Measurement Photos

Above 1000MHz



## ATTACHMENT A - CONDUCTED EMISSION

**Test Mode: N/A**

Note: "N/A" denotes test is not applicable to this device.

## **ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)**

|            |         |
|------------|---------|
| Test Mode: | TX MODE |
|------------|---------|

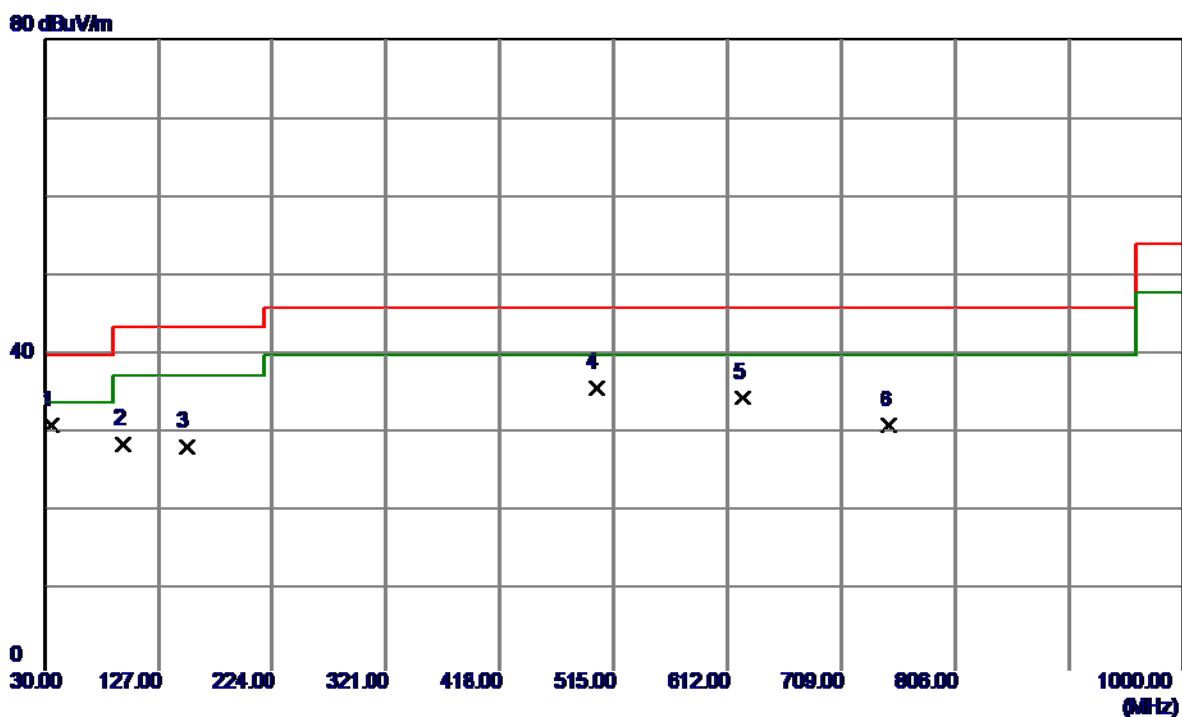
| Frequency (MHz) | Ant 0°/90° | Read level dBuV/m | Factor (dB) | Measured(FS) (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Note |
|-----------------|------------|-------------------|-------------|-----------------------|----------------|-------------|------|
| 0.0113          | 0°         | 13.44             | 24.8510     | 38.2900               | 126.5427       | -88.2527    | AVG  |
| 0.0113          | 0°         | 14.21             | 24.8510     | 39.0610               | 146.5427       | -107.4817   | PEAK |
| 0.0274          | 0°         | 6.70              | 23.8313     | 30.5313               | 118.8492       | -88.3179    | AVG  |
| 0.0274          | 0°         | 8.09              | 23.8313     | 31.9213               | 138.8492       | -106.9279   | PEAK |
| 0.0359          | 0°         | 3.18              | 23.2930     | 26.4730               | 116.5023       | -90.0293    | AVG  |
| 0.0359          | 0°         | 5.48              | 23.2930     | 28.7730               | 136.5023       | -107.7293   | PEAK |
| 0.0576          | 0°         | 1.13              | 22.2480     | 23.3780               | 112.3958       | -89.0178    | AVG  |
| 0.0576          | 0°         | 2.43              | 22.2480     | 24.6780               | 132.3958       | -107.7178   | PEAK |
| 0.5083          | 0°         | 19.38             | 19.8266     | 39.2066               | 73.4818        | -34.2753    | QP   |
| 1.9516          | 0°         | 23.68             | 19.5048     | 43.1848               | 69.5400        | -26.3552    | QP   |

| Frequency (MHz) | Ant 0°/90° | Read level dBuV/m | Factor (dB) | Measured(FS) (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Note |
|-----------------|------------|-------------------|-------------|-----------------------|----------------|-------------|------|
| 0.0121          | 90°        | 13.12             | 24.3000     | 37.4200               | 125.9485       | -88.5285    | AVG  |
| 0.0121          | 90°        | 14.58             | 24.3000     | 38.8800               | 145.9485       | -107.0685   | PEAK |
| 0.0264          | 90°        | 7.35              | 23.8947     | 31.2447               | 119.1721       | -87.9275    | AVG  |
| 0.0264          | 90°        | 8.87              | 23.8947     | 32.7647               | 139.1721       | -106.4075   | PEAK |
| 0.0432          | 90°        | 5.21              | 22.8307     | 28.0407               | 114.8945       | -86.8539    | AVG  |
| 0.0432          | 90°        | 6.17              | 22.8307     | 29.0007               | 134.8945       | -105.8939   | PEAK |
| 0.0576          | 90°        | 1.44              | 22.2480     | 23.6880               | 112.3958       | -88.7078    | AVG  |
| 0.0576          | 90°        | 2.78              | 22.2480     | 25.0280               | 132.3958       | -107.3678   | PEAK |
| 0.6214          | 90°        | 22.13             | 20.1885     | 42.3185               | 71.7368        | -29.4183    | QP   |
| 2.0537          | 90°        | 24.45             | 19.4678     | 43.9178               | 69.5400        | -25.6222    | QP   |

## **ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)**

|            |                          |
|------------|--------------------------|
| Test Mode: | UNII-1/TX A Mode 5180MHz |
|------------|--------------------------|

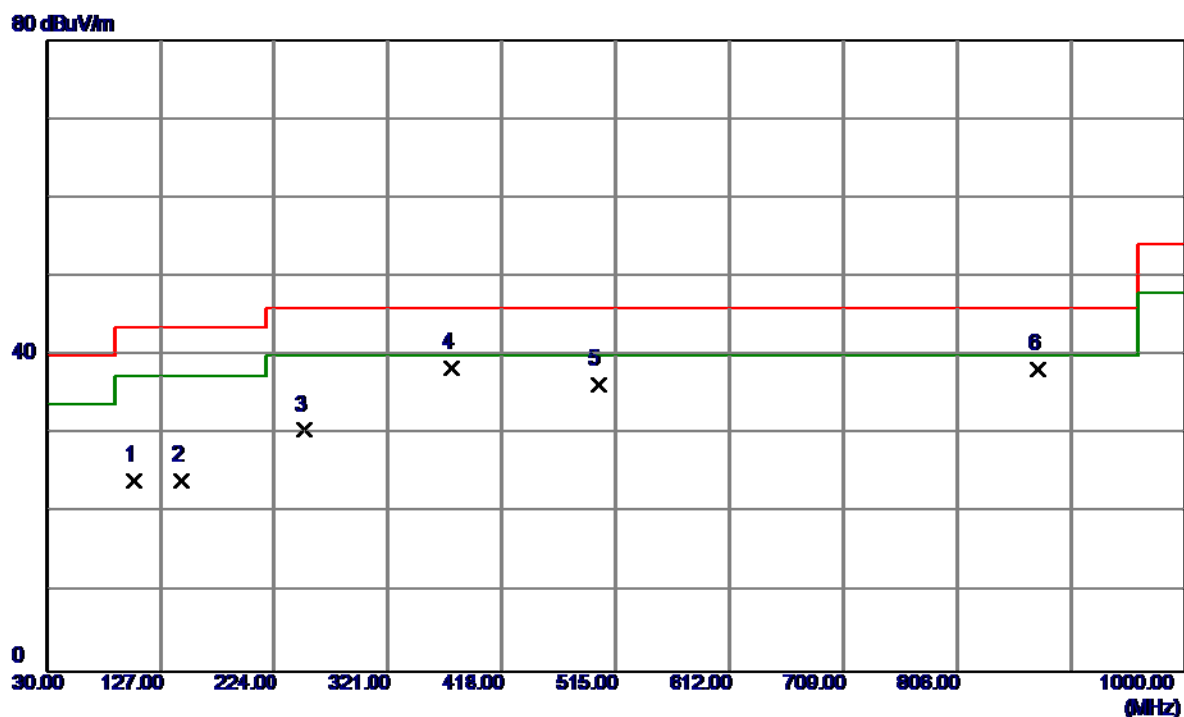
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 35.8200      | 42.35                      | -11.38                  | 30.97                     | 40.00           | -9.03        | Peak     |         |
| 2   | 96.9300      | 46.49                      | 17.85                   | 28.64                     | 43.50           | 14.86        | Peak     |         |
| 3   | 151.2500     | 46.48                      | -18.20                  | 28.28                     | 43.50           | -15.22       | Peak     |         |
| 4   | 500.4500     | 44.14                      | -8.28                   | 35.86                     | 46.00           | -10.14       | Peak     |         |
| 5   | 624.6100     | 40.43                      | -5.93                   | 34.50                     | 46.00           | -11.50       | Peak     |         |
| 6   | 749.7400     | 35.10                      | -4.10                   | 31.00                     | 46.00           | -15.00       | Peak     |         |

Test Mode: UNII-1/TX A Mode 5180MHz

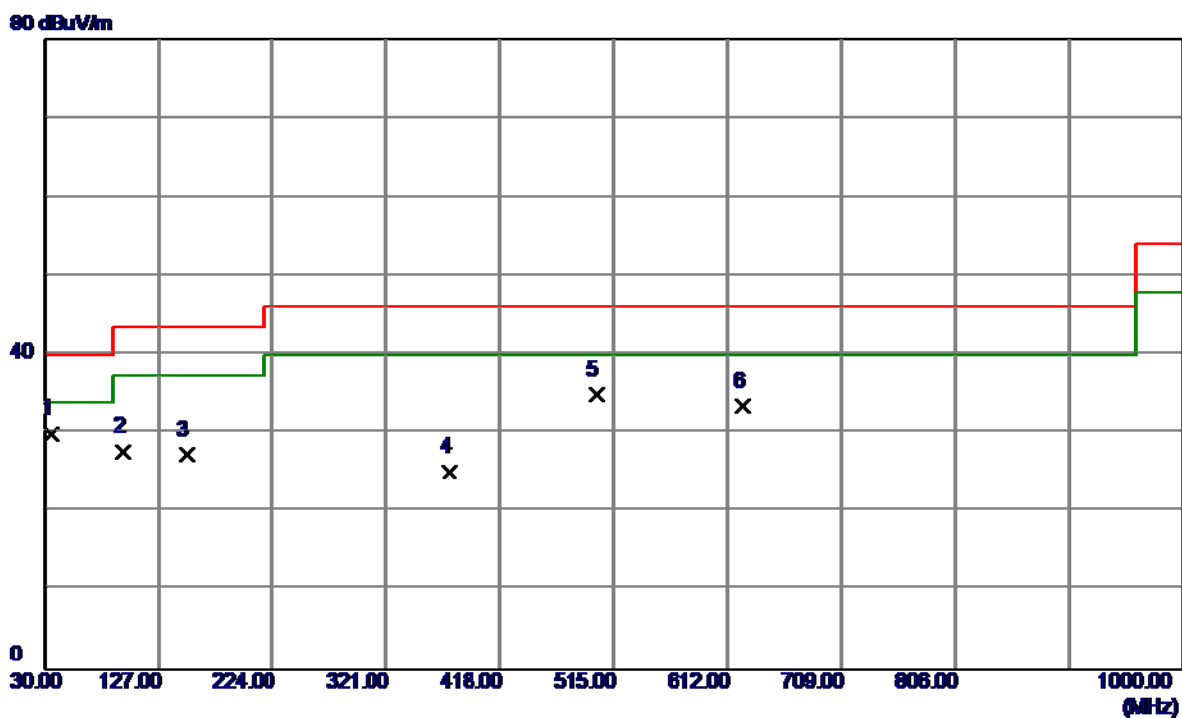
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 104.6900     | 42.11                      | -17.92                  | 24.19                     | 43.50           | -19.31       | Peak     |         |
| 2   | 145.4299     | 42.52                      | -18.42                  | 24.10                     | 43.50           | -19.40       | Peak     |         |
| 3   | 250.1900     | 43.62                      | -13.10                  | 30.52                     | 46.00           | -15.48       | Peak     |         |
| 4   | 375.3200     | 48.02                      | -9.69                   | 38.33                     | 46.00           | -7.67        | Peak     |         |
| 5   | 500.4500     | 44.57                      | -8.28                   | 36.29                     | 46.00           | -9.71        | Peak     |         |
| 6   | 874.8700     | 40.59                      | -2.30                   | 38.29                     | 46.00           | -7.71        | Peak     |         |

Test Mode: UNII-1/TX A Mode 5200MHz

### Vertical

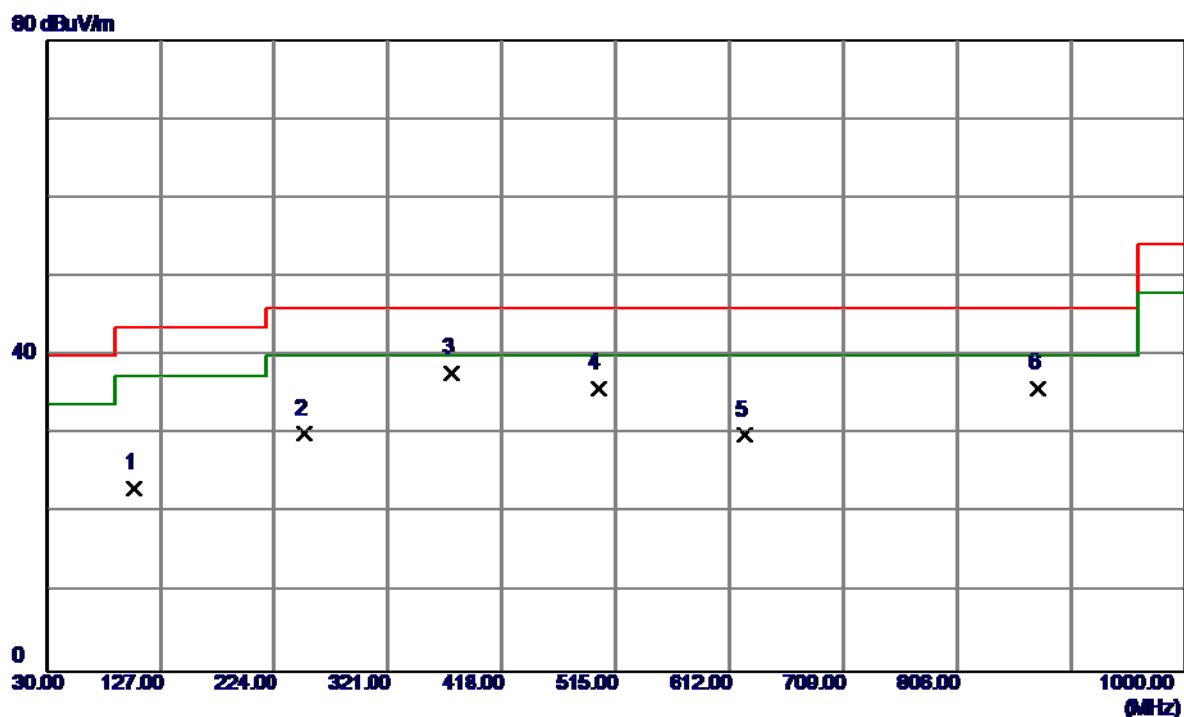


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 35.8200      | 41.35                      | -11.38                  | 29.97                     | 40.00           | -10.03       | Peak     |         |
| 2   | 96.9300      | 45.49                      | -17.85                  | 27.64                     | 43.50           | -15.86       | Peak     |         |
| 3   | 151.2500     | 45.48                      | -18.20                  | 27.28                     | 43.50           | -16.22       | Peak     |         |
| 4   | 375.3200     | 34.87                      | -9.69                   | 25.18                     | 46.00           | -20.82       | Peak     |         |
| 5   | 500.4500     | 43.14                      | -8.28                   | 34.86                     | 46.00           | -11.14       | Peak     |         |
| 6   | 624.6100     | 39.43                      | -5.93                   | 33.50                     | 46.00           | -12.50       | Peak     |         |



Test Mode: UNII-1/TX A Mode 5200MHz

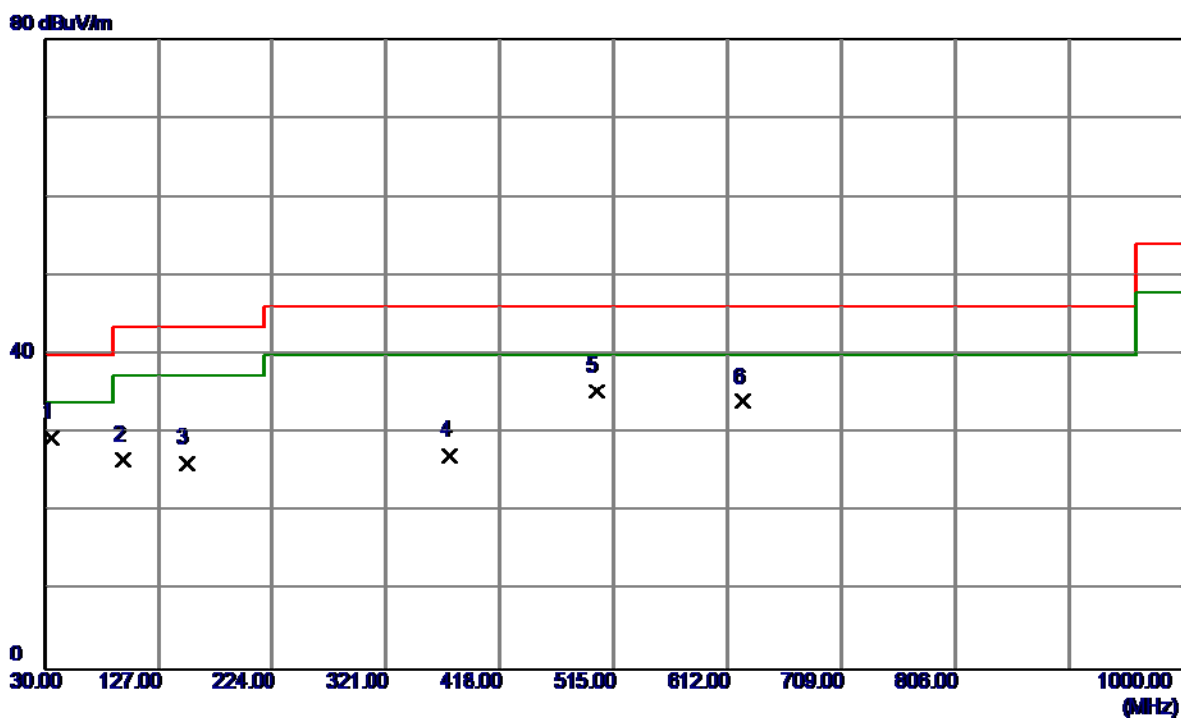
### Horizontal



| No. | Freq.    | Reading Level | Correct Factor | Measure ment | Limit  | Margin | Detector | Comment |
|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     | MHz      | dBuV/m        | dB             | dBuV/m       | dBuV/m | dB     |          |         |
| 1   | 104.6900 | 41.11         | -17.92         | 23.19        | 43.50  | -20.31 | Peak     |         |
| 2   | 250.1900 | 43.12         | -13.10         | 30.02        | 46.00  | -15.98 | Peak     |         |
| 3   | 375.3200 | 47.52         | -9.69          | 37.83        | 46.00  | -8.17  | Peak     |         |
| 4   | 500.4500 | 44.07         | -8.28          | 35.79        | 46.00  | -10.21 | Peak     |         |
| 5   | 624.6100 | 35.83         | -5.93          | 29.90        | 46.00  | -16.10 | Peak     |         |
| 6   | 874.8700 | 38.09         | -2.30          | 35.79        | 46.00  | -10.21 | Peak     |         |

Test Mode: UNII-1/TX A Mode 5240MHz

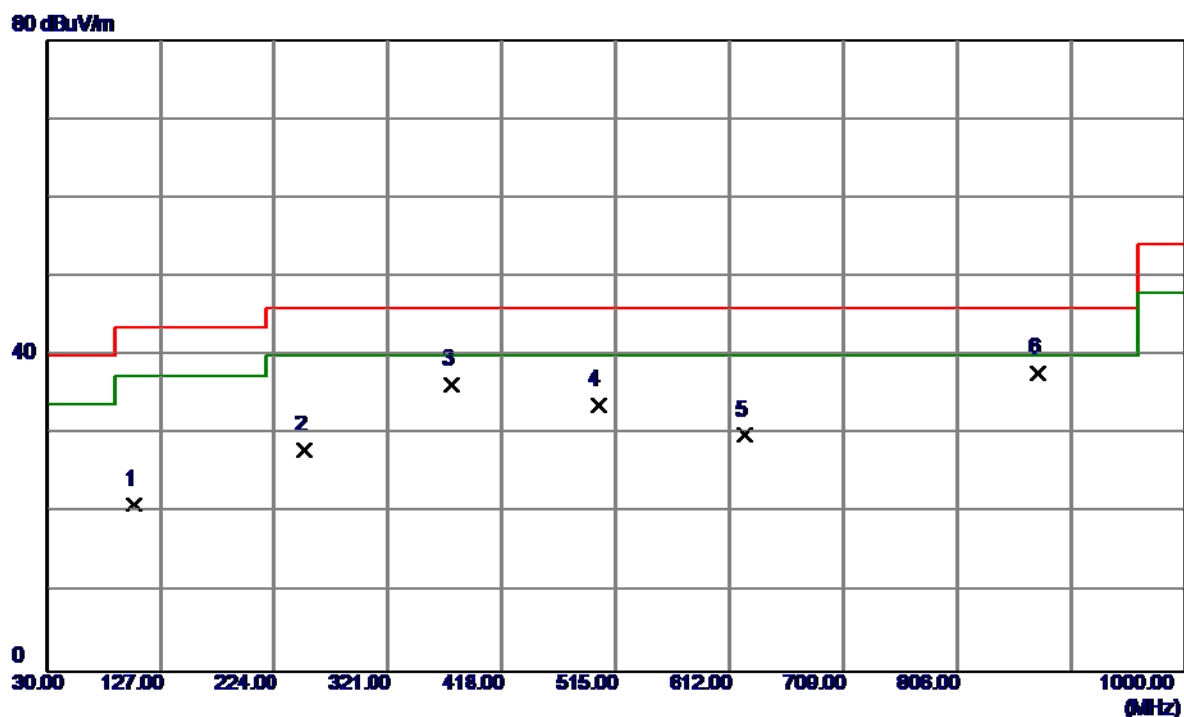
# Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 35.8200      | 40.85                      | -11.38                  | 29.47                     | 40.00           | -10.53       | Peak     |         |
| 2   | 96.9300      | 44.49                      | -17.85                  | 26.64                     | 43.50           | -16.86       | Peak     |         |
| 3   | 151.2500     | 44.48                      | -18.20                  | 26.28                     | 43.50           | -17.22       | Peak     |         |
| 4   | 375.3200     | 36.87                      | -9.69                   | 27.18                     | 46.00           | -18.82       | Peak     |         |
| 5   | 500.4500     | 43.64                      | -8.28                   | 35.36                     | 46.00           | -10.64       | Peak     |         |
| 6   | 624.6100     | 39.93                      | -5.93                   | 34.00                     | 46.00           | -12.00       | Peak     |         |

Test Mode: UNII-1/TX A Mode 5240MHz

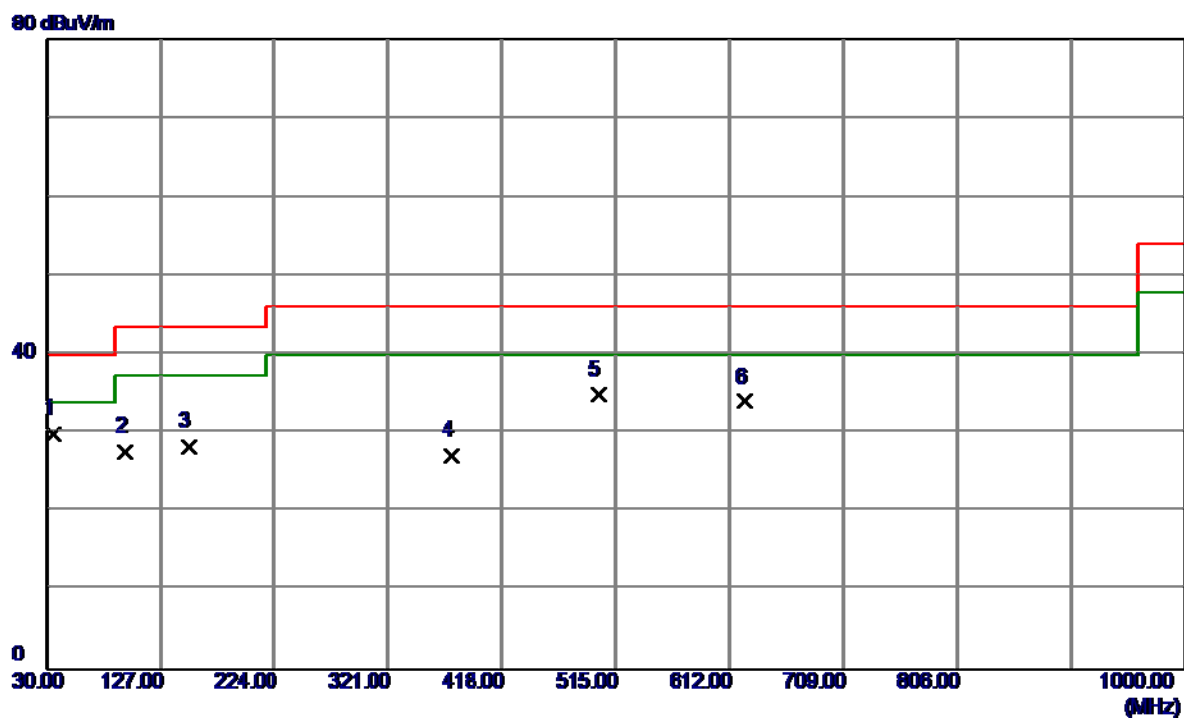
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 104.6900     | 39.11                      | -17.92                  | 21.19                     | 43.50           | -22.31       | Peak     |         |
| 2   | 250.1900     | 41.12                      | -13.10                  | 28.02                     | 46.00           | -17.98       | Peak     |         |
| 3   | 375.3200     | 46.02                      | -9.69                   | 36.33                     | 46.00           | -9.67        | Peak     |         |
| 4   | 500.4500     | 42.07                      | -8.28                   | 33.79                     | 46.00           | -12.21       | Peak     |         |
| 5   | 624.6100     | 35.83                      | -5.93                   | 29.90                     | 46.00           | -16.10       | Peak     |         |
| 6   | 874.8700     | 40.09                      | -2.30                   | 37.79                     | 46.00           | -8.21        | Peak     |         |

Test Mode: UNII-3/TX A Mode 5745MHz

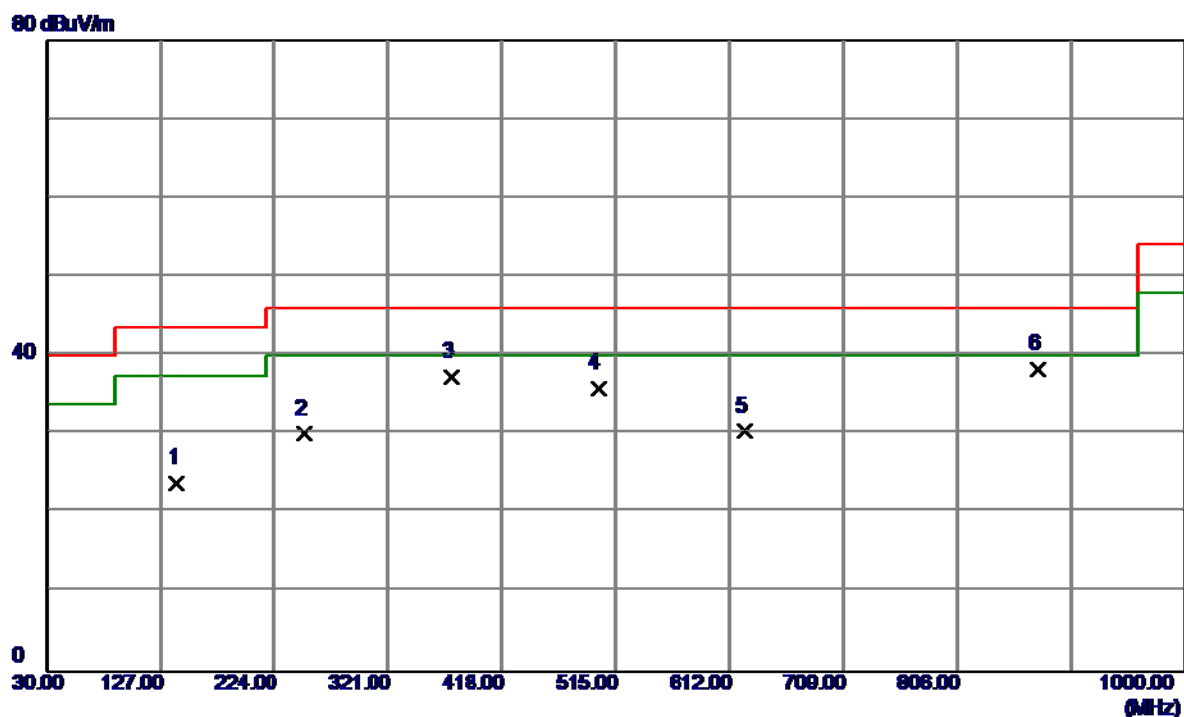
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 35.8200      | 41.35                      | -11.38                  | 29.97                     | 40.00           | -10.03       | Peak     |         |
| 2   | 96.9300      | 45.49                      | -17.85                  | 27.64                     | 43.50           | -15.86       | Peak     |         |
| 3   | 151.2500     | 46.48                      | -18.20                  | 28.28                     | 43.50           | -15.22       | Peak     |         |
| 4   | 375.3200     | 36.87                      | -9.69                   | 27.18                     | 46.00           | -18.82       | Peak     |         |
| 5   | 500.4500     | 43.14                      | -8.28                   | 34.86                     | 46.00           | -11.14       | Peak     |         |
| 6   | 624.6100     | 39.93                      | -5.93                   | 34.00                     | 46.00           | -12.00       | Peak     |         |

Test Mode: UNII-3/TX A Mode 5745MHz

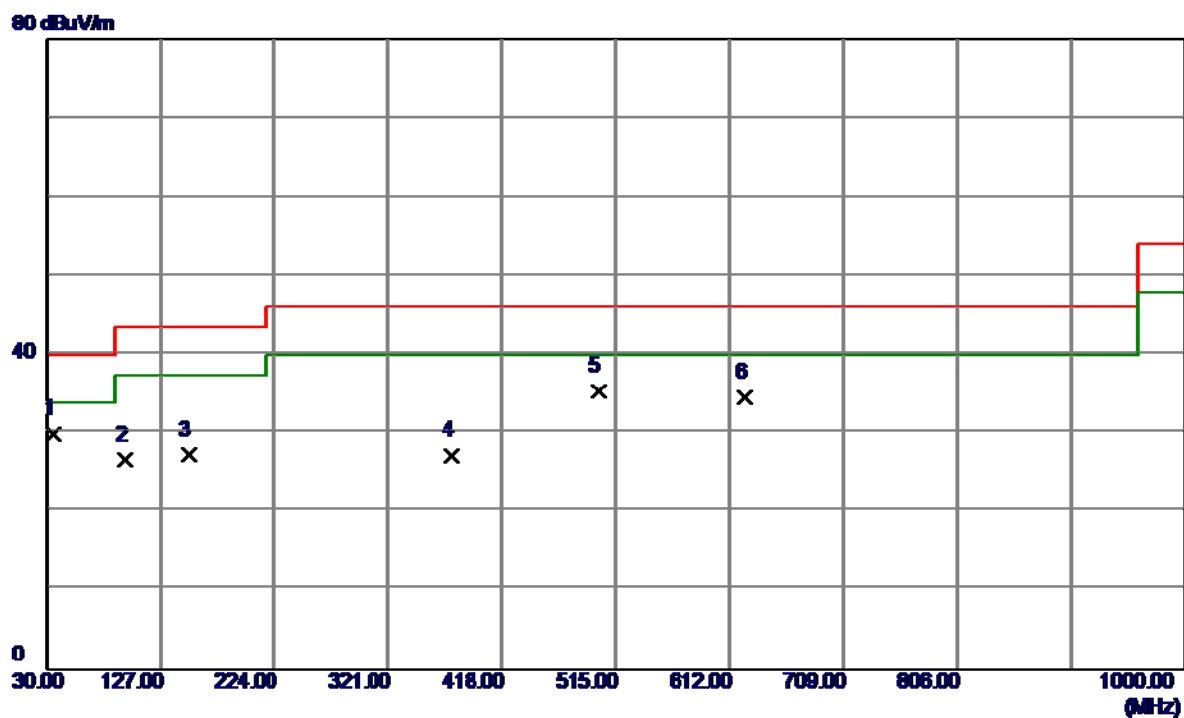
### Horizontal



| No. | Freq.    | Reading Level | Correct Factor | Measure ment | Limit  | Margin | Detector | Comment |
|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     | MHz      | dBuV/m        | dB             | dBuV/m       | dBuV/m | dB     |          |         |
| 1   | 141.5500 | 42.49         | -18.61         | 23.88        | 43.50  | -19.62 | Peak     |         |
| 2   | 250.1900 | 43.12         | -13.10         | 30.02        | 46.00  | -15.98 | Peak     |         |
| 3   | 375.3200 | 47.02         | -9.69          | 37.33        | 46.00  | -8.67  | Peak     |         |
| 4   | 500.4500 | 44.07         | -8.28          | 35.79        | 46.00  | -10.21 | Peak     |         |
| 5   | 624.6100 | 36.33         | -5.93          | 30.40        | 46.00  | -15.60 | Peak     |         |
| 6   | 874.8700 | 40.59         | -2.30          | 38.29        | 46.00  | -7.71  | Peak     |         |

Test Mode: UNII-3/TX A Mode 5785MHz

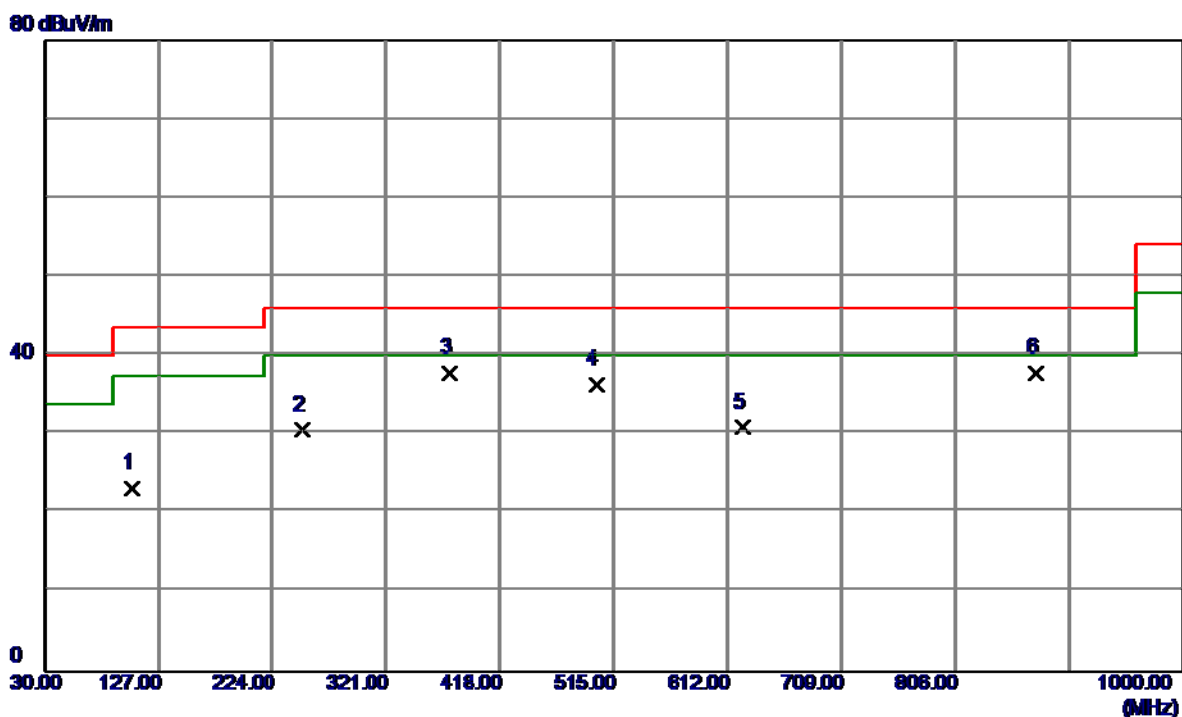
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 35.8200      | 41.35                      | -11.38                  | 29.97                     | 40.00           | -10.03       | Peak     |         |
| 2   | 96.9300      | 44.49                      | -17.85                  | 26.64                     | 43.50           | -16.86       | Peak     |         |
| 3   | 151.2500     | 45.48                      | -18.20                  | 27.28                     | 43.50           | -16.22       | Peak     |         |
| 4   | 375.3200     | 36.87                      | -9.69                   | 27.18                     | 46.00           | -18.82       | Peak     |         |
| 5   | 500.4500     | 43.64                      | -8.28                   | 35.36                     | 46.00           | -10.64       | Peak     |         |
| 6   | 624.6100     | 40.43                      | -5.93                   | 34.50                     | 46.00           | -11.50       | Peak     |         |

Test Mode: UNII-3/TX A Mode 5785MHz

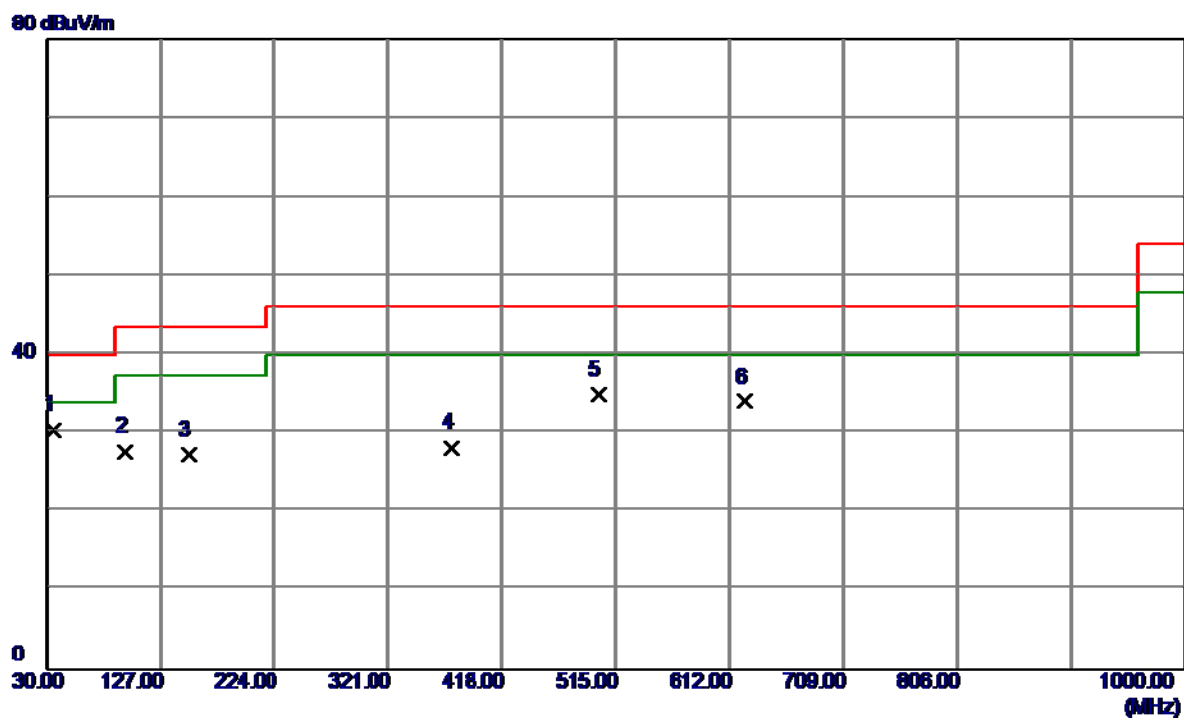
### Horizontal



| No. | Freq.    | Reading Level | Correct Factor | Measure ment | Limit  | Margin |          |         |
|-----|----------|---------------|----------------|--------------|--------|--------|----------|---------|
|     | MHz      | dBuV/m        | dB             | dBuV/m       | dBuV/m | dB     | Detector | Comment |
| 1   | 104.6900 | 41.11         | -17.92         | 23.19        | 43.50  | -20.31 | Peak     |         |
| 2   | 250.1900 | 43.62         | -13.10         | 30.52        | 46.00  | -15.48 | Peak     |         |
| 3   | 375.3200 | 47.52         | -9.69          | 37.83        | 46.00  | -8.17  | Peak     |         |
| 4   | 500.4500 | 44.57         | -8.28          | 36.29        | 46.00  | -9.71  | Peak     |         |
| 5   | 624.6100 | 36.83         | -5.93          | 30.90        | 46.00  | -15.10 | Peak     |         |
| 6   | 874.8700 | 40.09         | -2.30          | 37.79        | 46.00  | -8.21  | Peak     |         |

Test Mode: UNII-3/TX A Mode 5825MHz

### Vertical

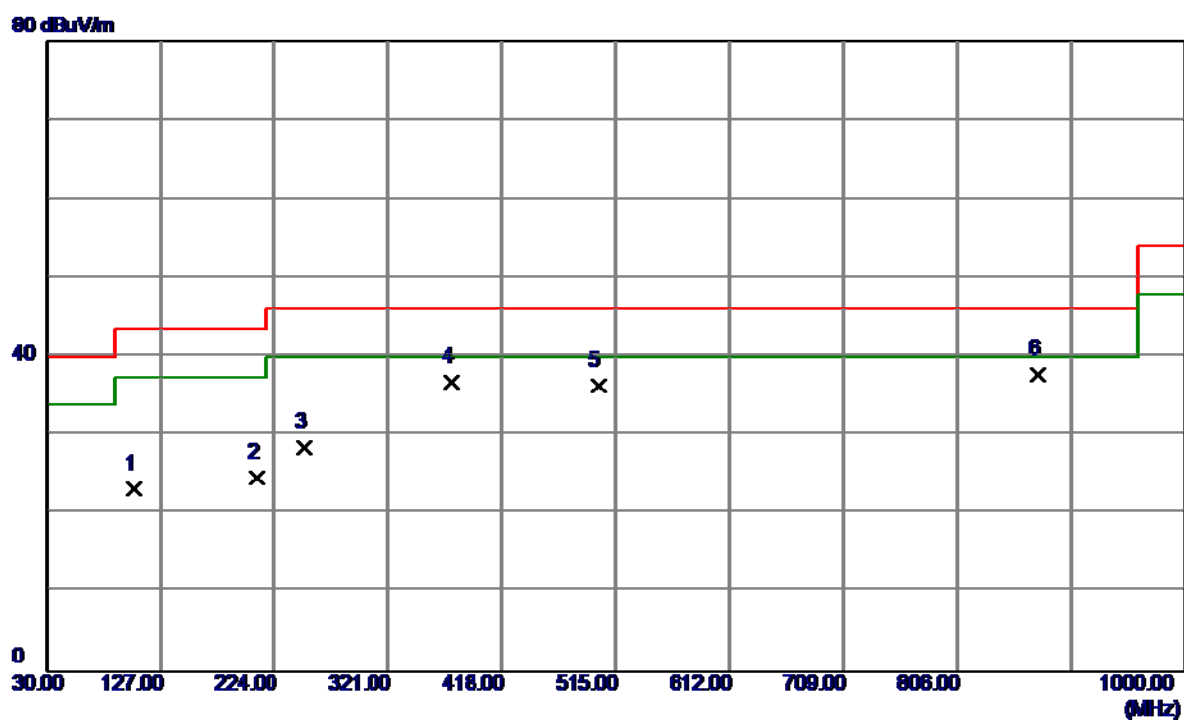


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 35.8200      | 41.85                      | -11.38                  | 30.47                     | 40.00           | -9.53        | Peak     |         |
| 2   | 96.9300      | 45.49                      | -17.85                  | 27.64                     | 43.50           | -15.86       | Peak     |         |
| 3   | 151.2500     | 45.48                      | -18.20                  | 27.28                     | 43.50           | -16.22       | Peak     |         |
| 4   | 375.3200     | 37.87                      | -9.69                   | 28.18                     | 46.00           | -17.82       | Peak     |         |
| 5   | 500.4500     | 43.14                      | -8.28                   | 34.86                     | 46.00           | -11.14       | Peak     |         |
| 6   | 624.6100     | 39.93                      | -5.93                   | 34.00                     | 46.00           | -12.00       | Peak     |         |



Test Mode: UNII-3/TX A Mode 5825MHz

### Horizontal

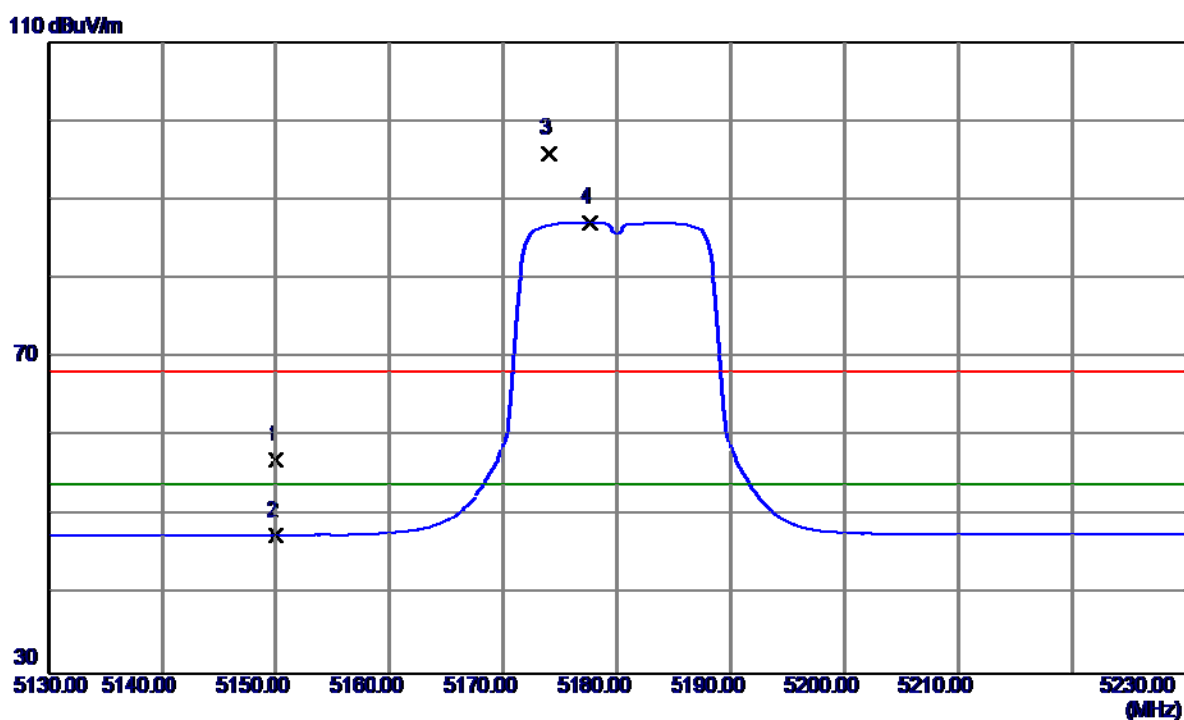


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 104.6900     | 41.11                      | -17.92                  | 23.19                     | 43.50           | -20.31       | Peak     |         |
| 2   | 208.4800     | 40.19                      | -15.55                  | 24.64                     | 43.50           | -18.86       | Peak     |         |
| 3   | 250.1900     | 41.62                      | -13.10                  | 28.52                     | 46.00           | -17.48       | Peak     |         |
| 4   | 375.3200     | 46.52                      | -9.69                   | 36.83                     | 46.00           | -9.17        | Peak     |         |
| 5   | 500.4500     | 44.57                      | -8.28                   | 36.29                     | 46.00           | -9.71        | Peak     |         |
| 6   | 874.8700     | 40.09                      | -2.30                   | 37.79                     | 46.00           | -8.21        | Peak     |         |

## **ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)**

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5180MHz |

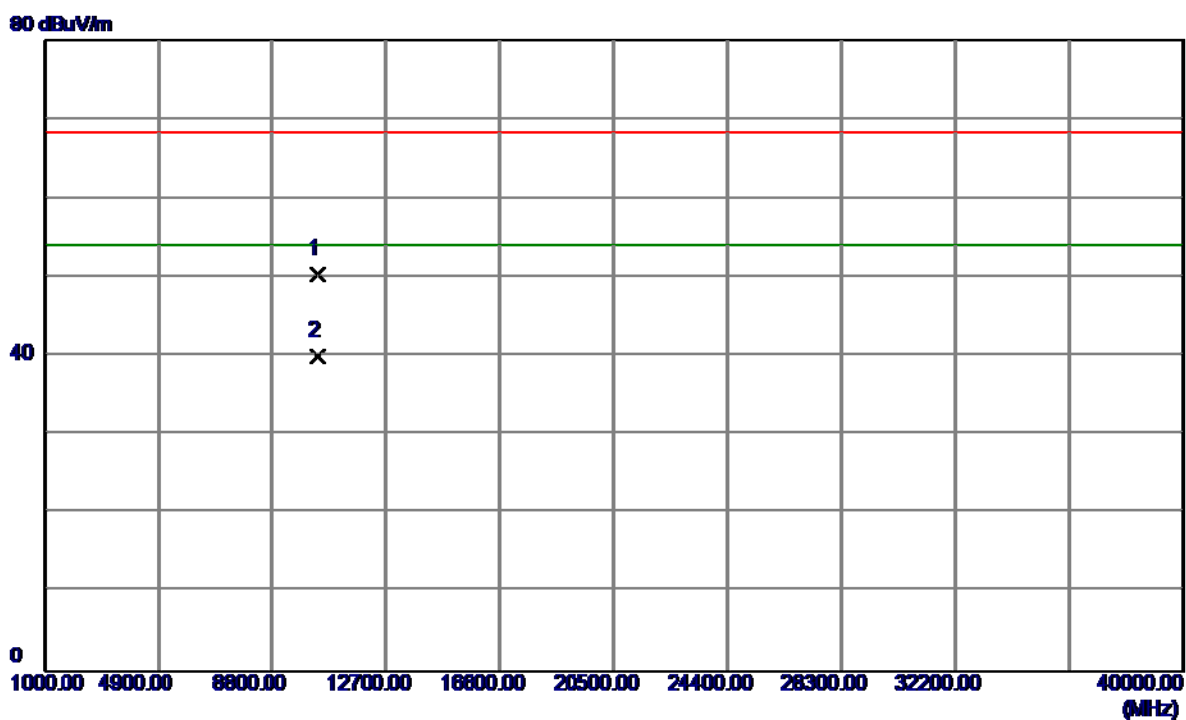
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5150.0000    | 19.19                      | 37.89                   | 57.08                     | 68.30           | -11.22       | Peak     |          |
| 2   | 5150.0000    | 9.59                       | 37.89                   | 47.48                     | 54.00           | -6.52        | AVG      |          |
| 3   | 5174.0000    | 57.86                      | 38.00                   | 95.86                     | 68.30           | 27.56        | Peak     | No Limit |
| 4   | 5177.7000    | 49.17                      | 38.02                   | 87.19                     | 54.00           | 33.19        | AVG      | No Limit |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5180MHz |

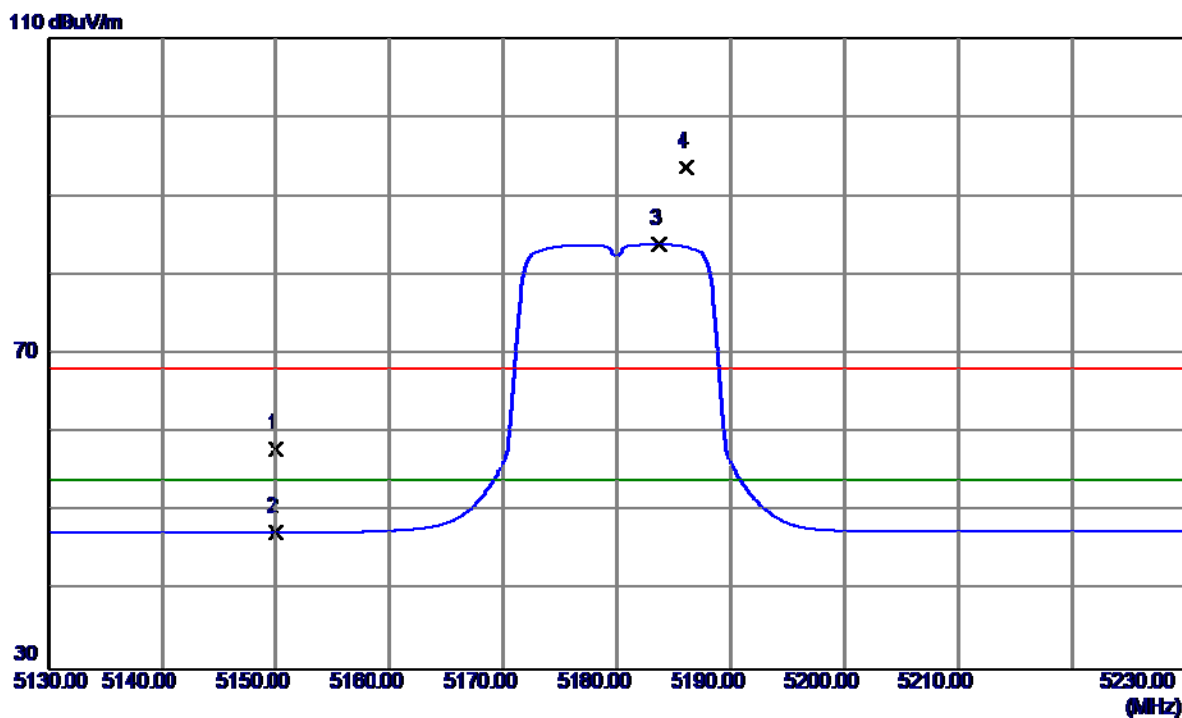
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10361.0000   | 36.12                      | 14.33                   | 50.45                     | 68.30           | -17.85       | Peak     |         |
| 2   | 10361.0000   | 25.60                      | 14.33                   | 39.93                     | 54.00           | -14.07       | AVG      |         |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5180MHz |

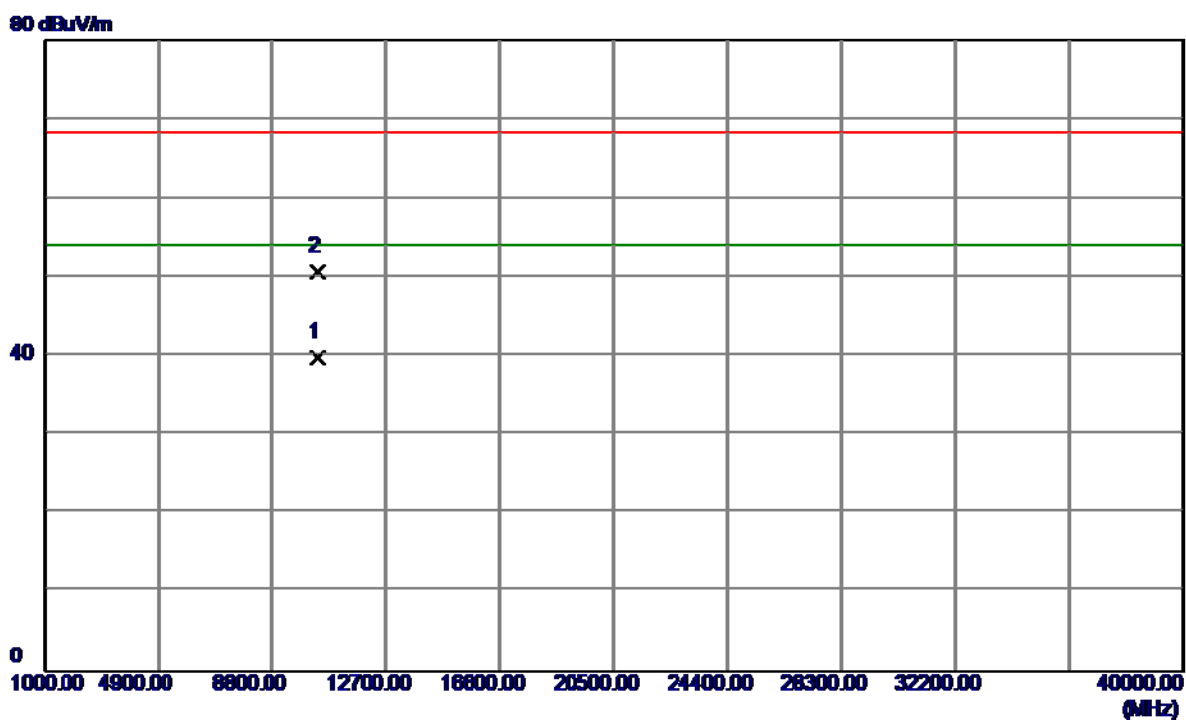
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5150.0000    | 20.11                      | 37.89                   | 58.00                     | 68.30           | -10.30       | Peak     |          |
| 2   | 5150.0000    | 9.55                       | 37.89                   | 47.44                     | 54.00           | -6.56        | AVG      |          |
| 3   | 5183.7000    | 45.88                      | 38.04                   | 83.92                     | 54.00           | 29.92        | AVG      | No Limit |
| 4   | 5186.1000    | 55.68                      | 38.05                   | 93.73                     | 68.30           | 25.43        | Peak     | No Limit |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5180MHz |

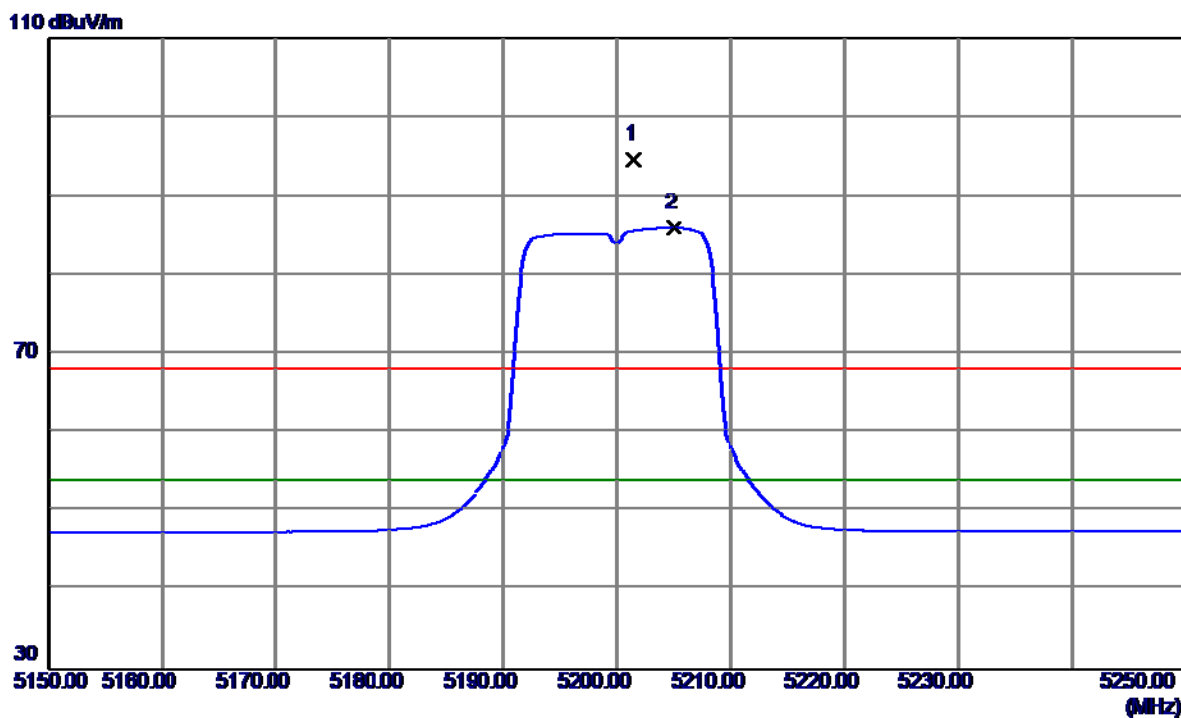
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10359.9000   | 25.54                      | 14.33                   | 39.87                     | 54.00           | -14.13       | AVG      |         |
| 2   | 10359.8600   | 36.41                      | 14.33                   | 50.74                     | 68.30           | -17.56       | Peak     |         |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5200MHz |

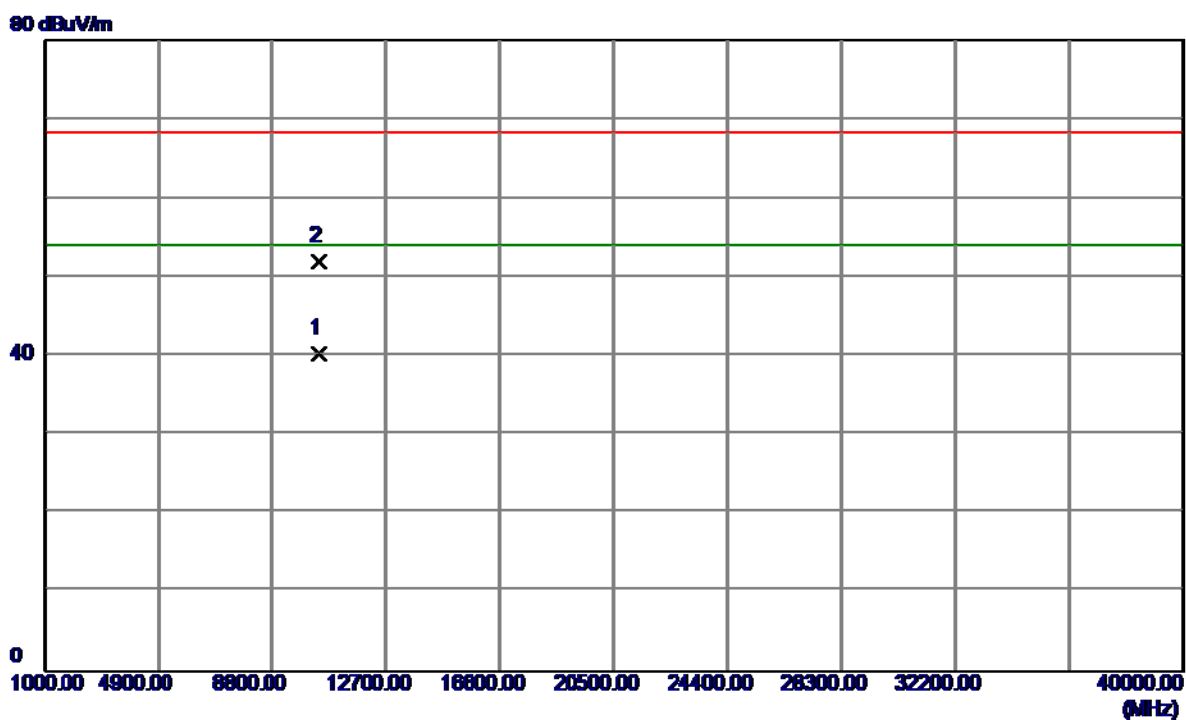
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5201.5000    | 56.52                      | 38.12                   | 94.64                     | 68.30           | 26.34        | Peak     | No Limit |
| 2   | 5205.0000    | 47.88                      | 38.14                   | 86.02                     | 54.00           | 32.02        | AVG      | No Limit |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5200MHz |

### Vertical

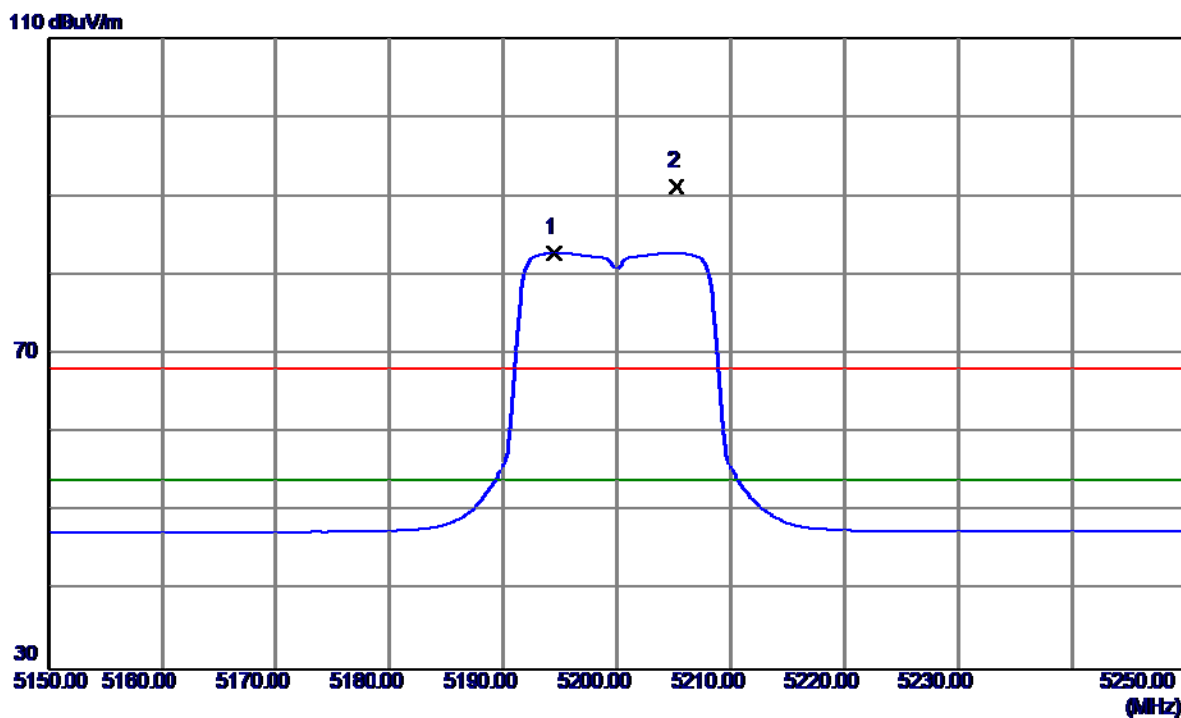


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10398.1000   | 25.86                      | 14.40                   | 40.26                     | 54.00           | -13.74       | AVG      |         |
| 2   | 10401.1000   | 37.57                      | 14.41                   | 51.98                     | 68.30           | -16.32       | Peak     |         |



|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5200MHz |

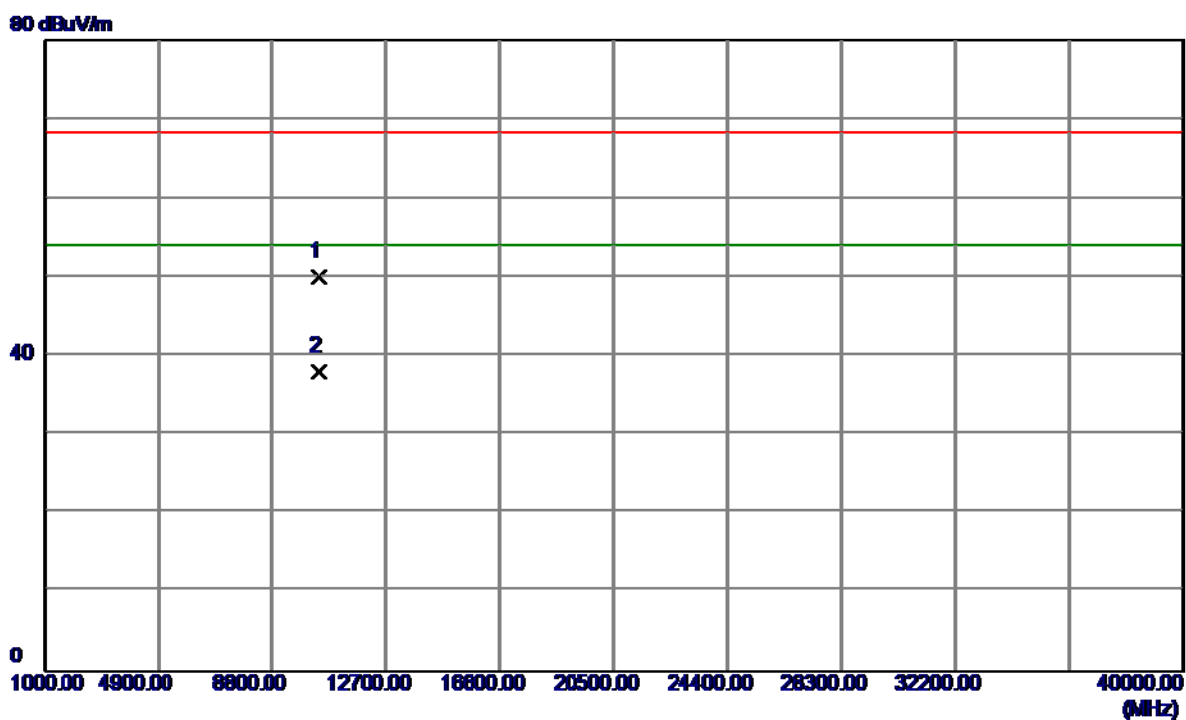
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5194.4000    | 44.78                      | 38.09                   | 82.87                     | 54.00           | 28.87        | AVG      | No Limit |
| 2   | 5205.2000    | 53.07                      | 38.14                   | 91.21                     | 68.30           | 22.91        | Peak     | No Limit |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5200MHz |

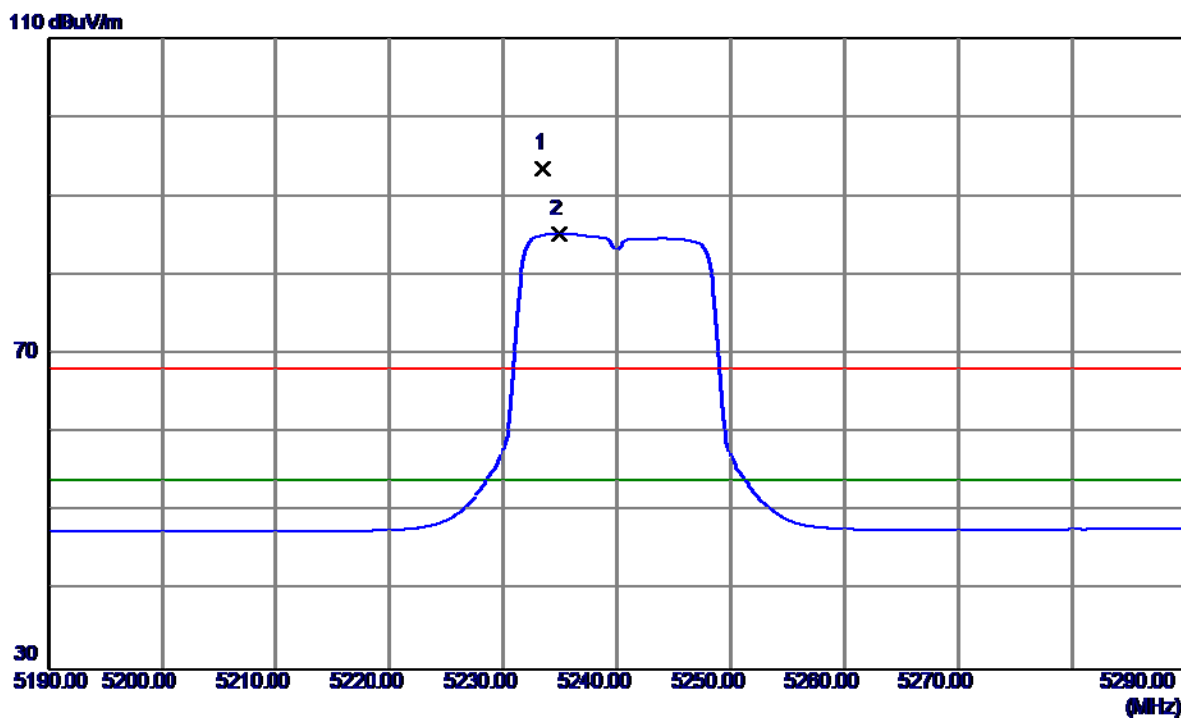
### Horizontal



| No. | Freq.      | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|------------|---------------|----------------|-------------|--------|--------|----------|---------|
|     | MHz        | dBuV/m        | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | 10400.4000 | 35.73         | 14.40          | 50.13       | 68.30  | -18.17 | Peak     |         |
| 2   | 10400.4500 | 23.68         | 14.40          | 38.08       | 54.00  | -15.92 | AVG      |         |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5240MHz |

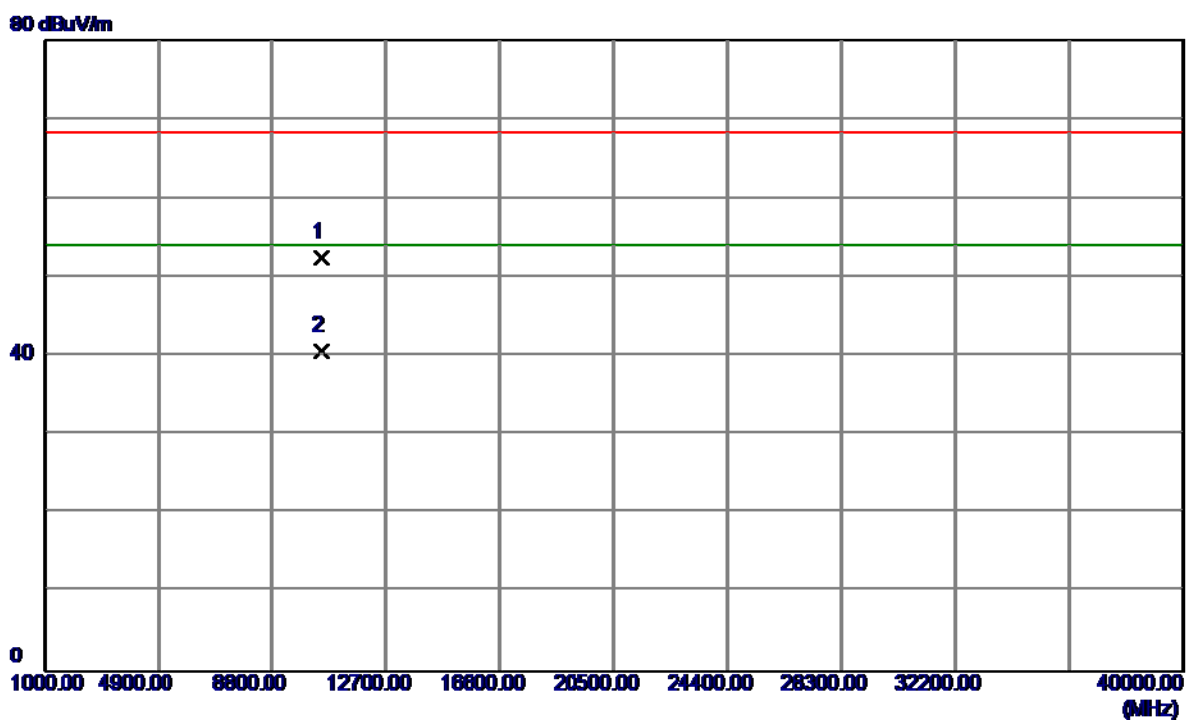
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5233.5000    | 55.29                      | 38.26                   | 93.55                     | 68.30           | 25.25        | Peak     | No Limit |
| 2   | 5234.9000    | 46.99                      | 38.27                   | 85.26                     | 54.00           | 31.26        | AVG      | No Limit |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5240MHz |

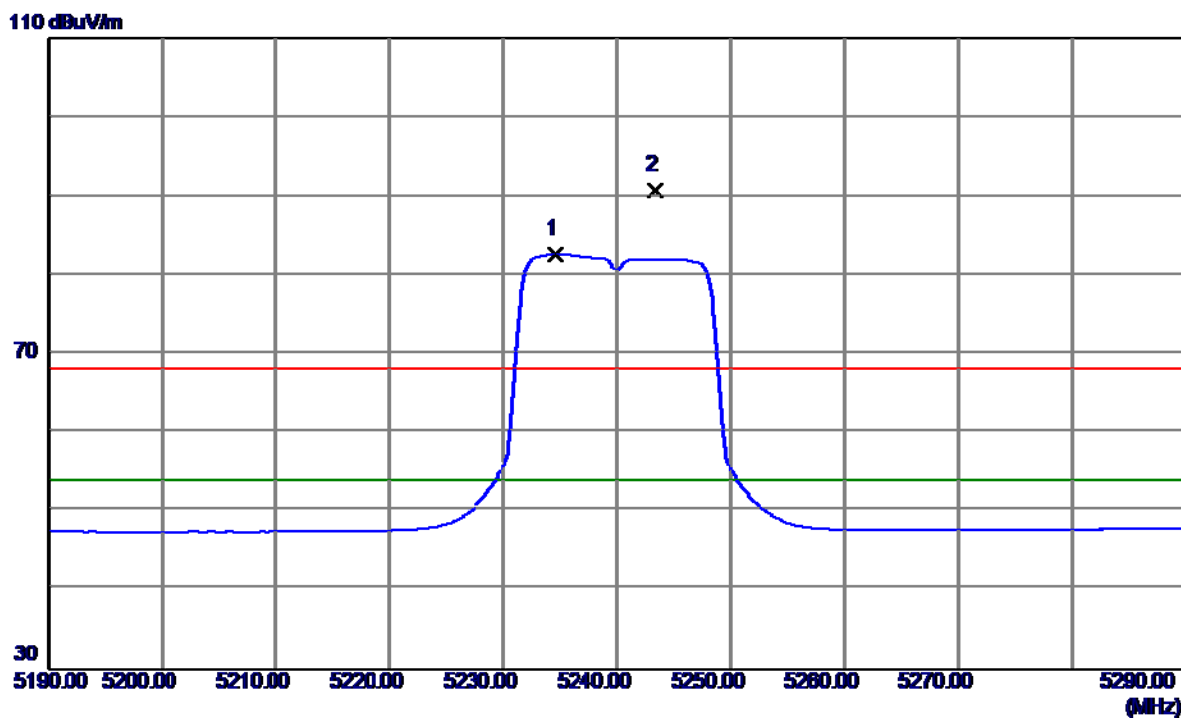
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10478.5000   | 37.97                      | 14.56                   | 52.53                     | 68.30           | -15.77       | Peak     |         |
| 2   | 10480.9000   | 26.11                      | 14.56                   | 40.67                     | 54.00           | -13.33       | AVG      |         |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5240MHz |

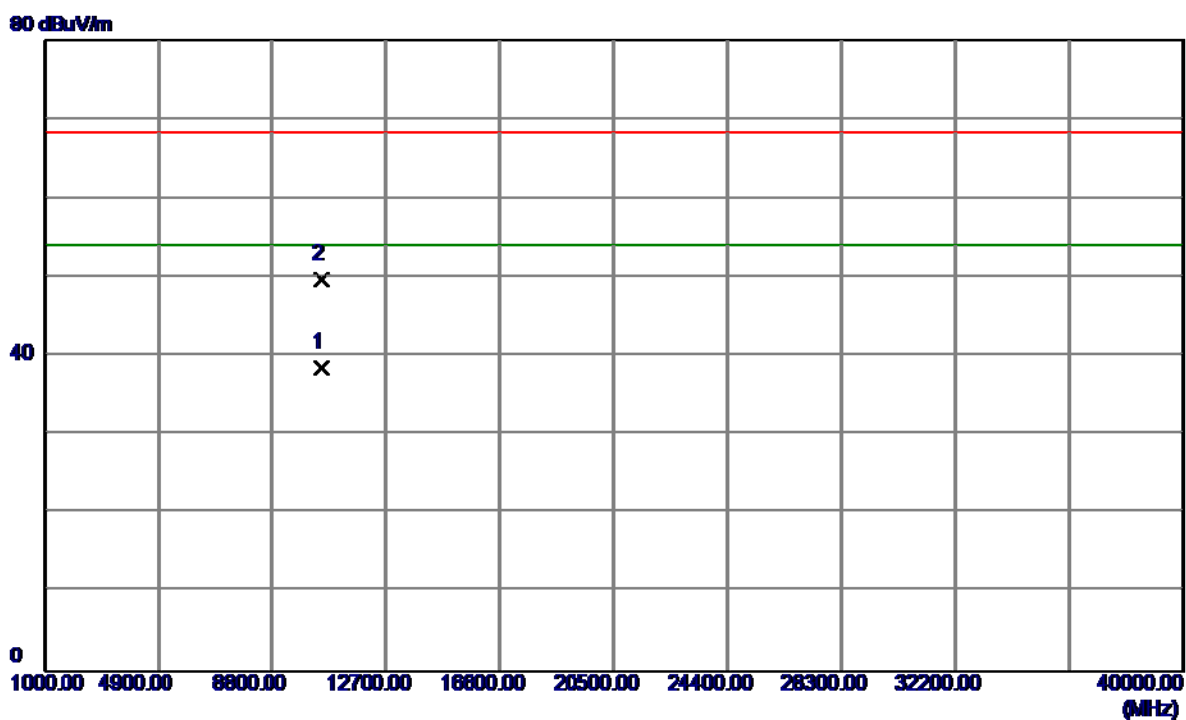
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5234.6000    | 44.39                      | 38.27                   | 82.66                     | 54.00           | 28.66        | AVG      | No Limit |
| 2   | 5243.3000    | 52.56                      | 38.31                   | 90.87                     | 68.30           | 22.57        | Peak     | No Limit |

|                  |                           |
|------------------|---------------------------|
| Orthogonal Axis: | X                         |
| Test Mode:       | UNII-1/ TX A Mode 5240MHz |

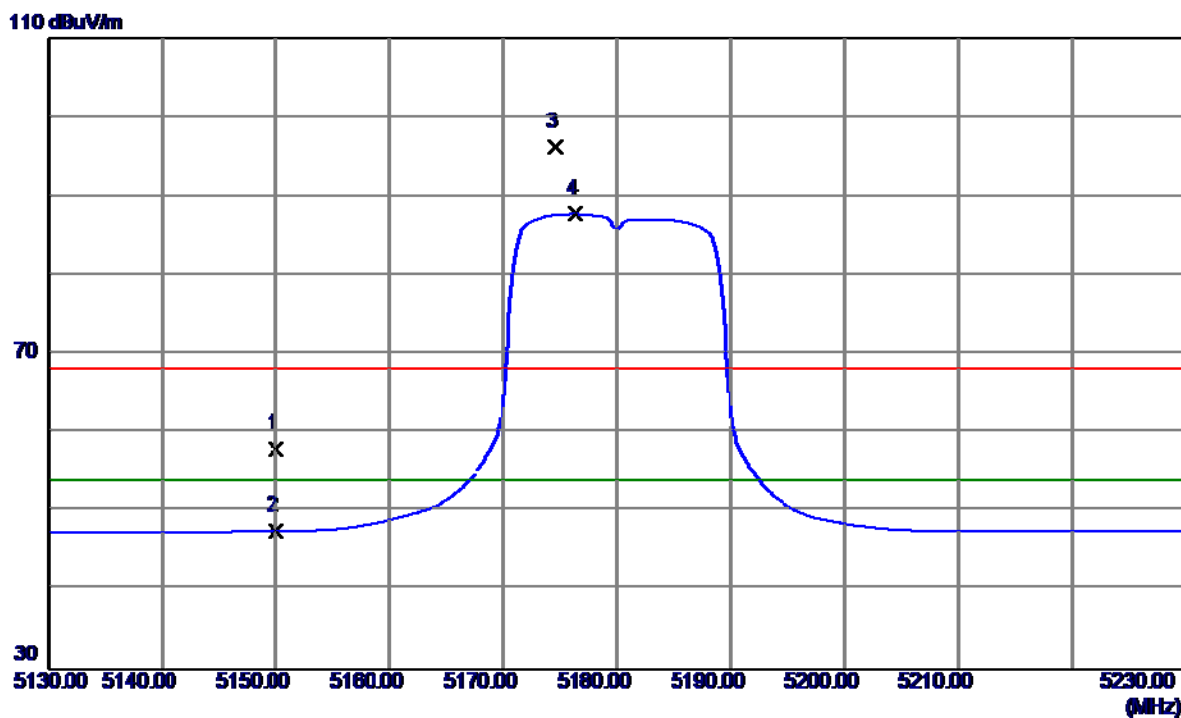
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10479.4000   | 24.04                      | 14.56                   | 38.60                     | 54.00           | -15.40       | AVG      |         |
| 2   | 10481.5000   | 35.13                      | 14.56                   | 49.69                     | 68.30           | -18.61       | Peak     |         |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5180MHz |

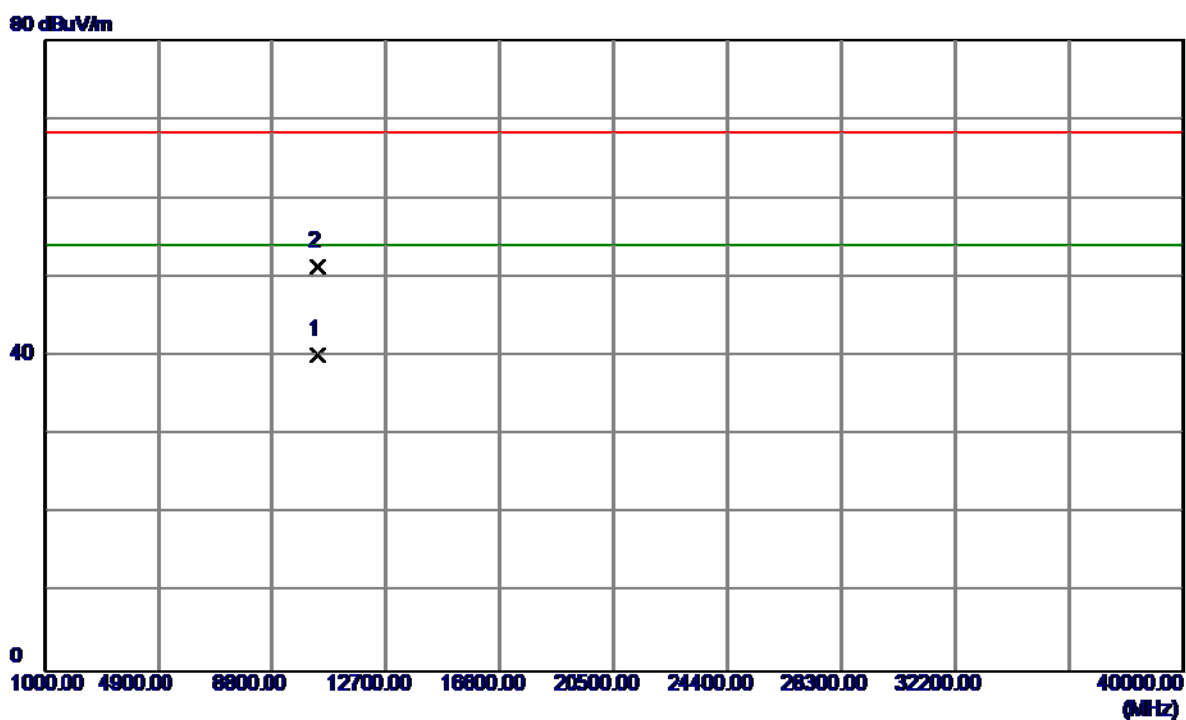
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5150.0000    | 20.05                      | 37.89                   | 57.94                     | 68.30           | -10.36       | Peak     |          |
| 2   | 5150.0000    | 9.66                       | 37.89                   | 47.55                     | 54.00           | -6.45        | AVG      |          |
| 3   | 5174.6000    | 58.20                      | 38.00                   | 96.20                     | 68.30           | 27.90        | Peak     | No Limit |
| 4   | 5176.3000    | 49.69                      | 38.01                   | 87.70                     | 54.00           | 33.70        | AVG      | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5180MHz |

### Vertical

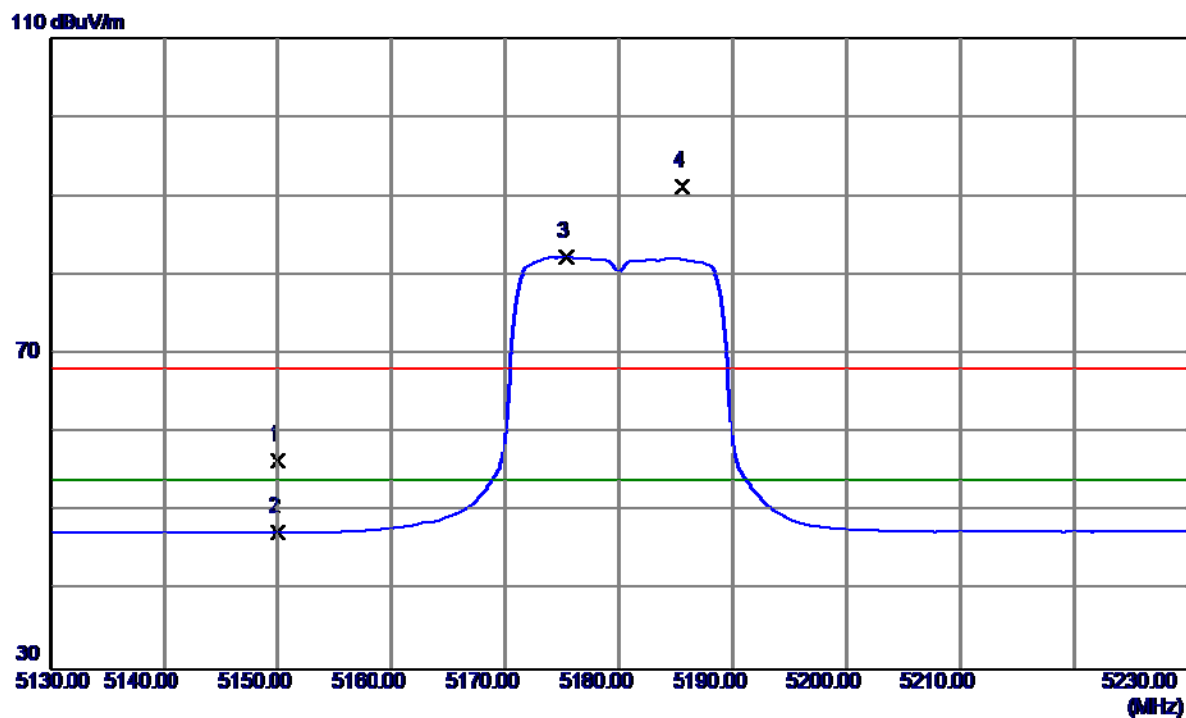


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10359.0000   | 25.80                      | 14.32                   | 40.12                     | 54.00           | -13.88       | AVG      |         |
| 2   | 10361.2000   | 36.98                      | 14.33                   | 51.31                     | 68.30           | -16.99       | Peak     |         |



|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5180MHz |

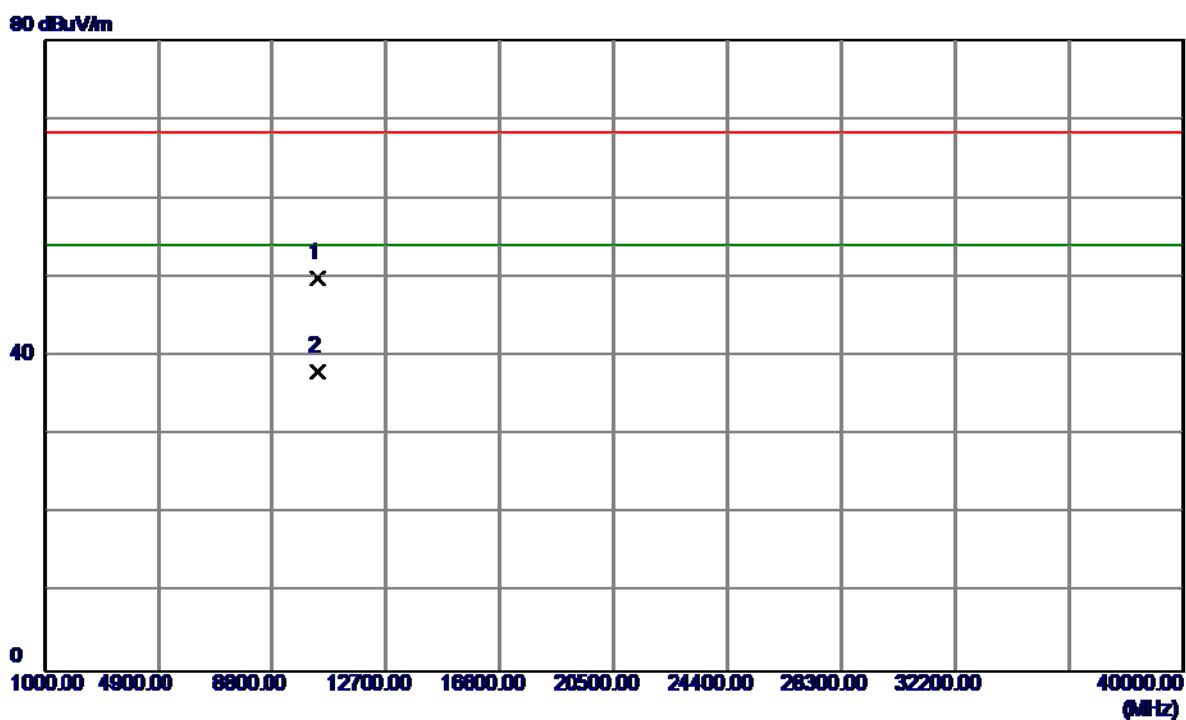
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5150.0000    | 18.69                      | 37.89                   | 56.58                     | 68.30           | -11.72       | Peak     |          |
| 2   | 5150.0000    | 9.54                       | 37.89                   | 47.43                     | 54.00           | -6.57        | AVG      |          |
| 3   | 5175.3000    | 44.35                      | 38.00                   | 82.35                     | 54.00           | 28.35        | AVG      | No Limit |
| 4   | 5185.6000    | 53.22                      | 38.05                   | 91.27                     | 68.30           | 22.97        | Peak     | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5180MHz |

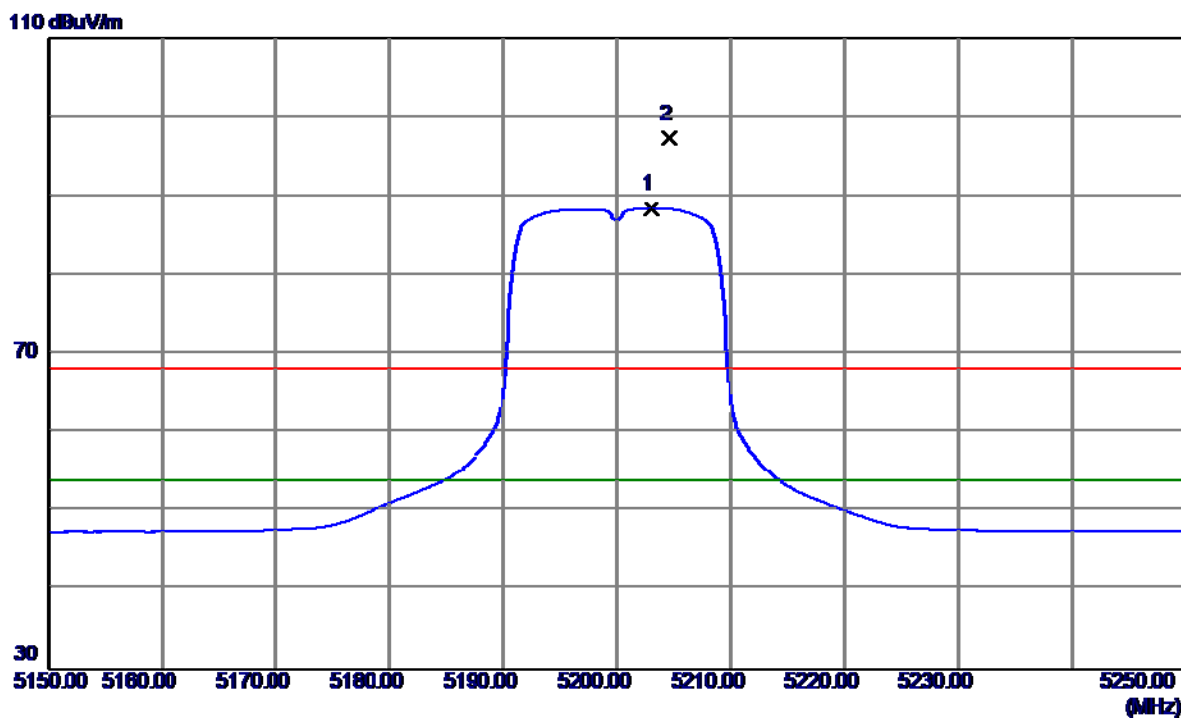
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10360.6000   | 35.64                      | 14.33                   | 49.97                     | 68.30           | -18.33       | Peak     |         |
| 2   | 10360.7000   | 23.73                      | 14.33                   | 38.06                     | 54.00           | -15.94       | AVG      |         |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5200MHz |

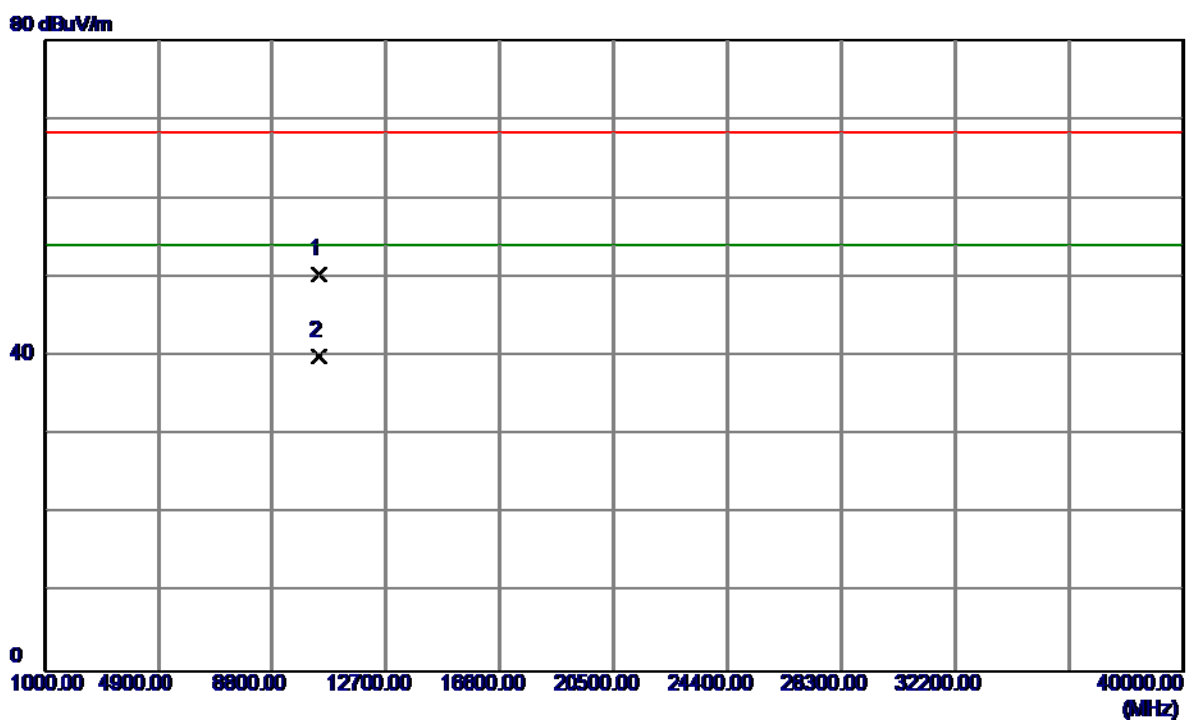
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5203.0000    | 50.32                      | 38.13                   | 88.45                     | 54.00           | 34.45        | AVG      | No Limit |
| 2   | 5204.6000    | 59.15                      | 38.13                   | 97.28                     | 68.30           | 28.98        | Peak     | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5200MHz |

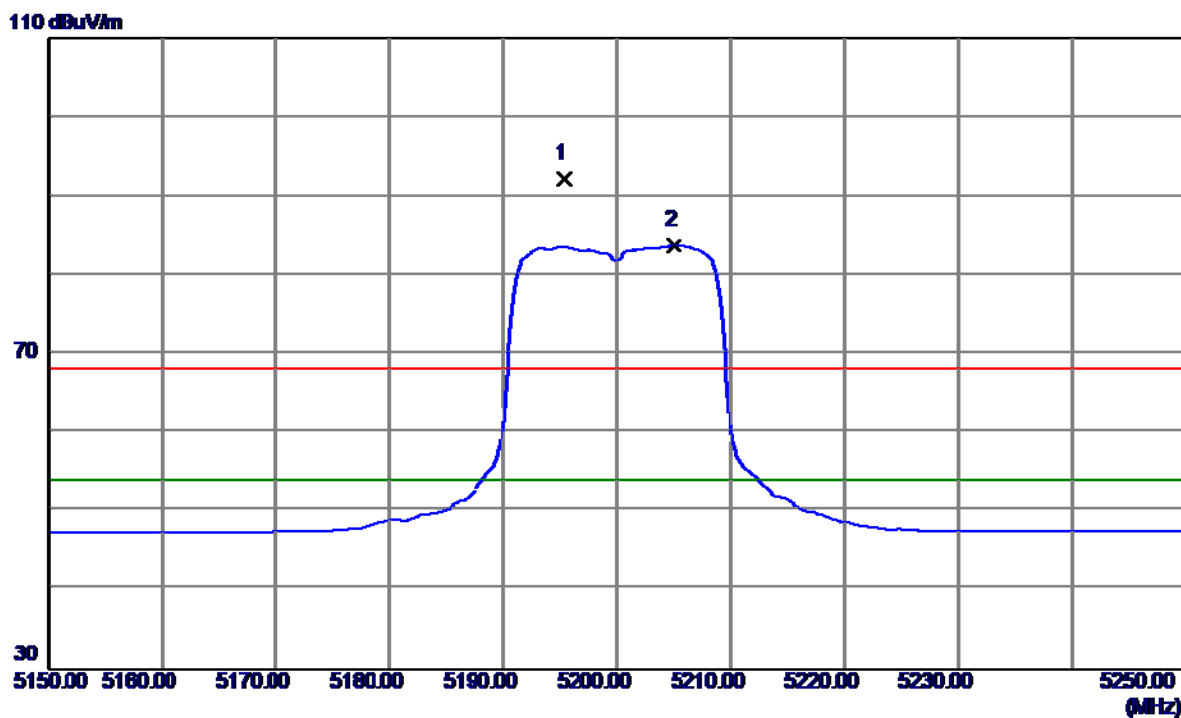
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10400.8000   | 35.94                      | 14.41                   | 50.35                     | 68.30           | -17.95       | Peak     |         |
| 2   | 10401.1000   | 25.58                      | 14.41                   | 39.99                     | 54.00           | -14.01       | AVG      |         |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5200MHz |

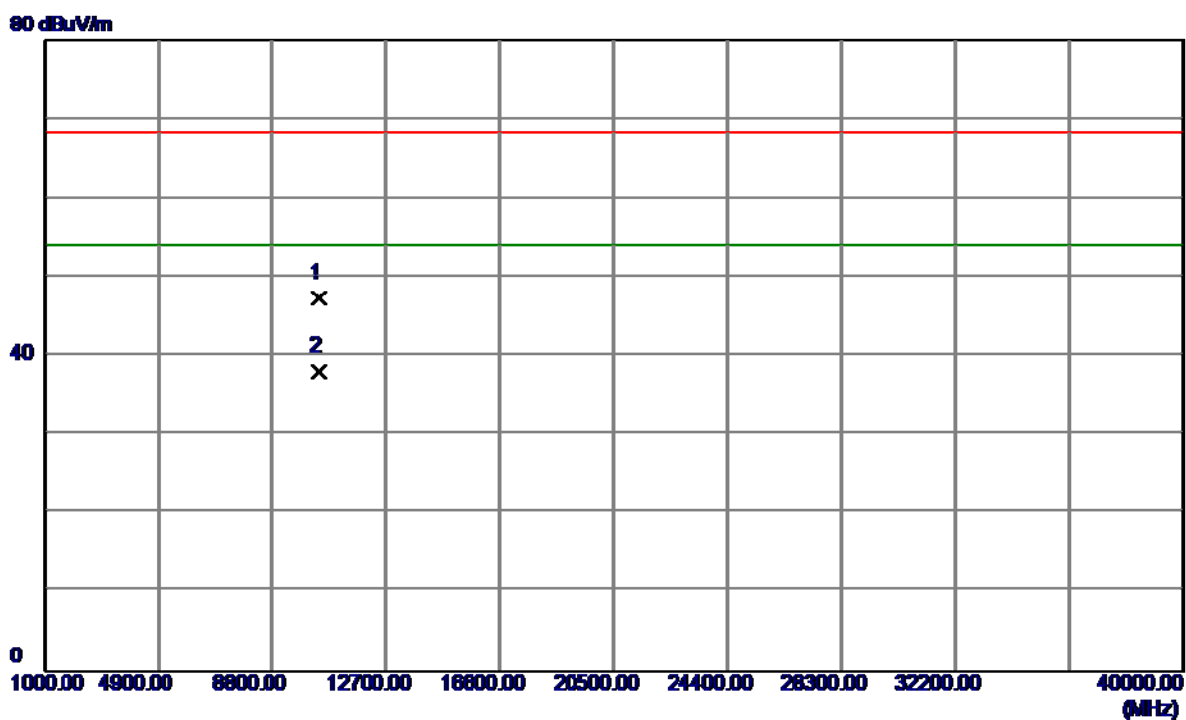
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5195.3000    | 54.19                      | 38.09                   | 92.28                     | 68.30           | 23.98        | Peak     | No Limit |
| 2   | 5205.0000    | 45.60                      | 38.14                   | 83.74                     | 54.00           | 29.74        | AVG      | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5200MHz |

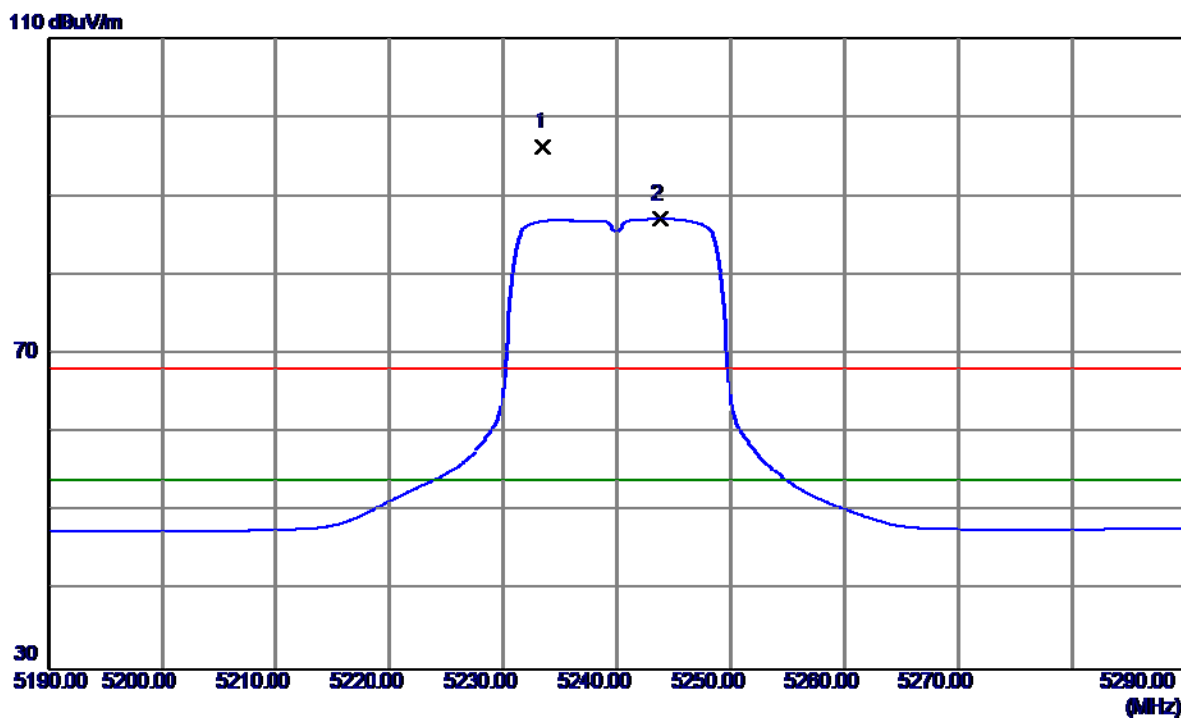
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10399.9000   | 33.03                      | 14.40                   | 47.43                     | 68.30           | -20.87       | Peak     |         |
| 2   | 10400.9000   | 23.70                      | 14.41                   | 38.11                     | 54.00           | -15.89       | AVG      |         |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5240MHz |

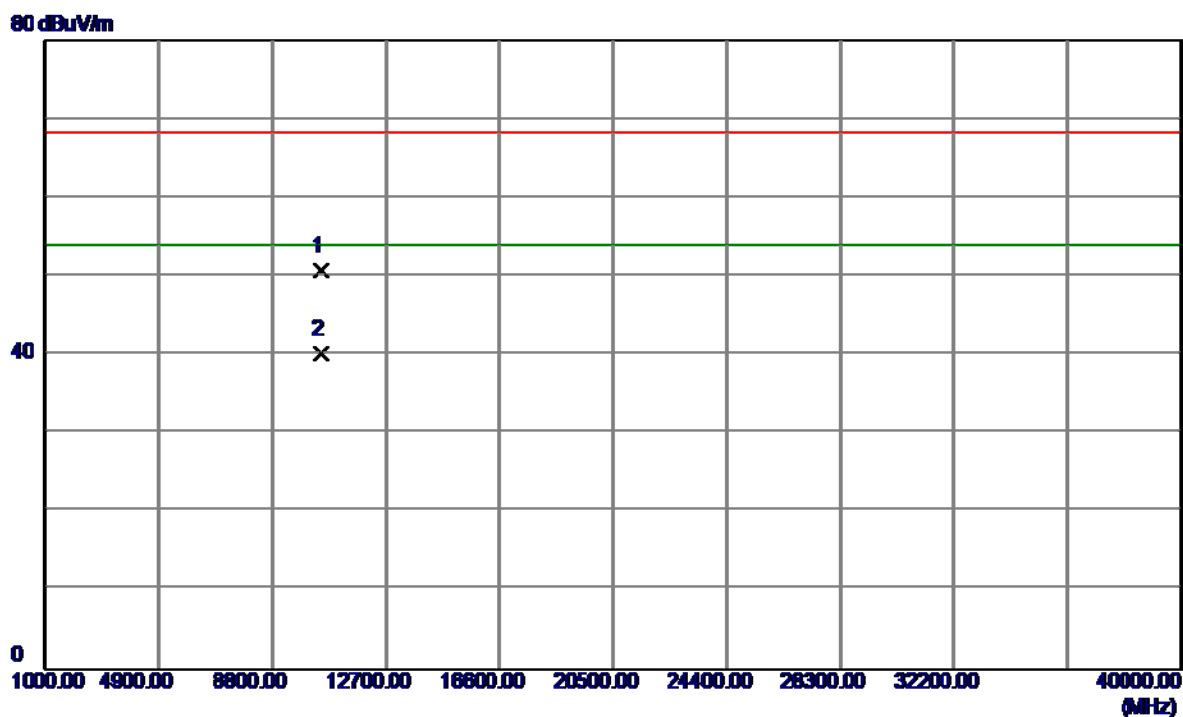
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5233.5000    | 57.93                      | 38.26                   | 96.19                     | 68.30           | 27.89        | Peak     | No Limit |
| 2   | 5243.8000    | 48.77                      | 38.31                   | 87.08                     | 54.00           | 33.08        | AVG      | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5240MHz |

### Vertical

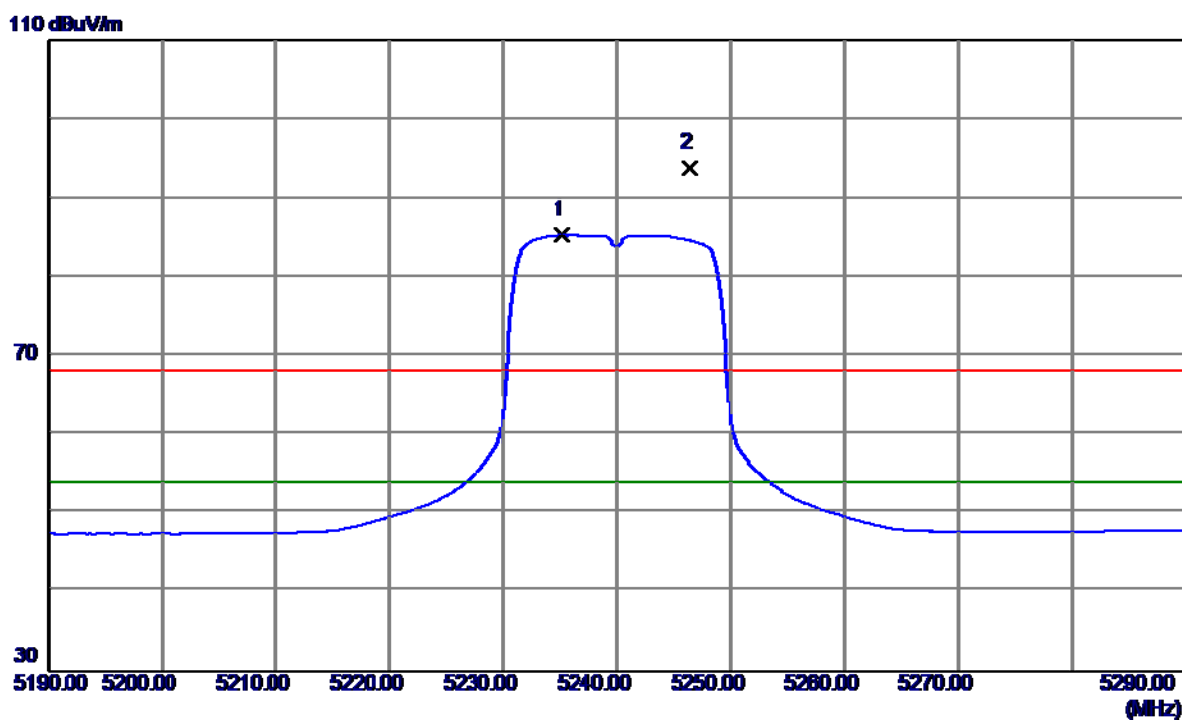


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10480.5000   | 36.12                      | 14.56                   | 50.68                     | 68.30           | -17.62       | Peak     |         |
| 2   | 10481.0000   | 25.67                      | 14.56                   | 40.23                     | 54.00           | -13.77       | AVG      |         |



|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5240MHz |

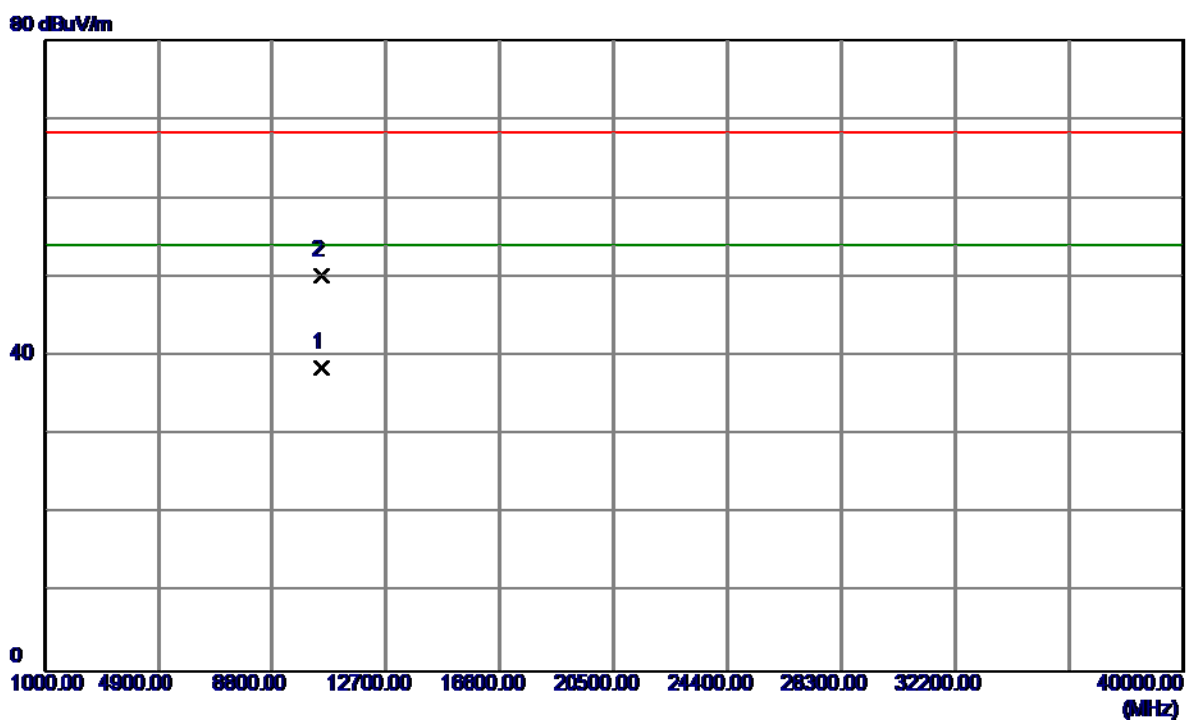
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5235.1000    | 47.02                      | 38.27                   | 85.29                     | 54.00           | 31.29        | AVG      | No Limit |
| 2   | 5246.4000    | 55.53                      | 38.32                   | 93.85                     | 68.30           | 25.55        | Peak     | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N20 Mode 5240MHz |

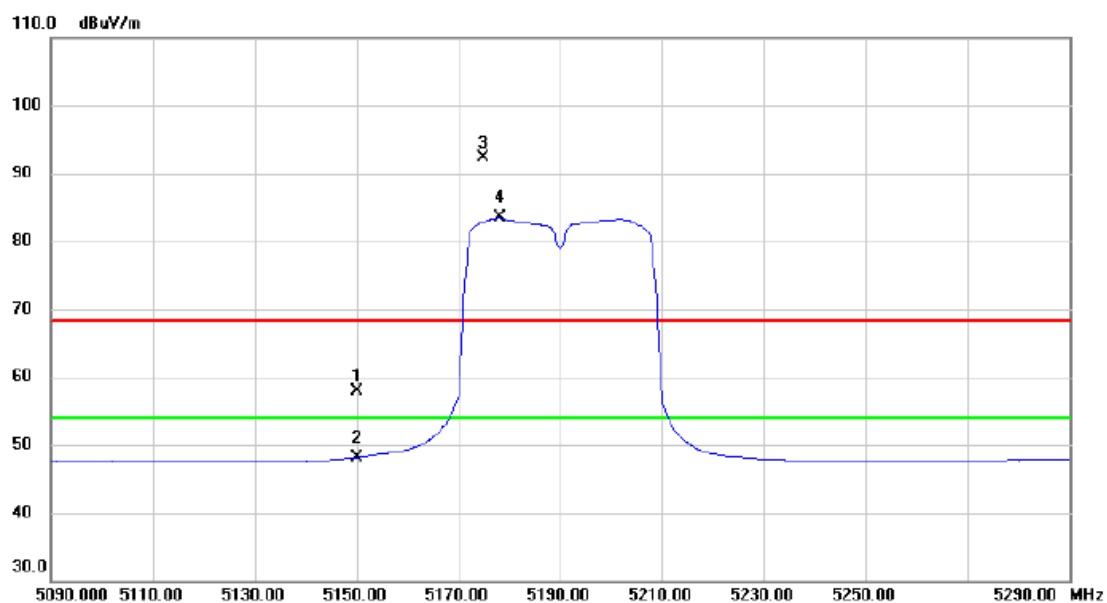
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10479.4000   | 24.05                      | 14.56                   | 38.61                     | 54.00           | -15.39       | AVG      |         |
| 2   | 10479.9000   | 35.66                      | 14.56                   | 50.22                     | 68.30           | -18.08       | Peak     |         |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N40 Mode 5190MHz |

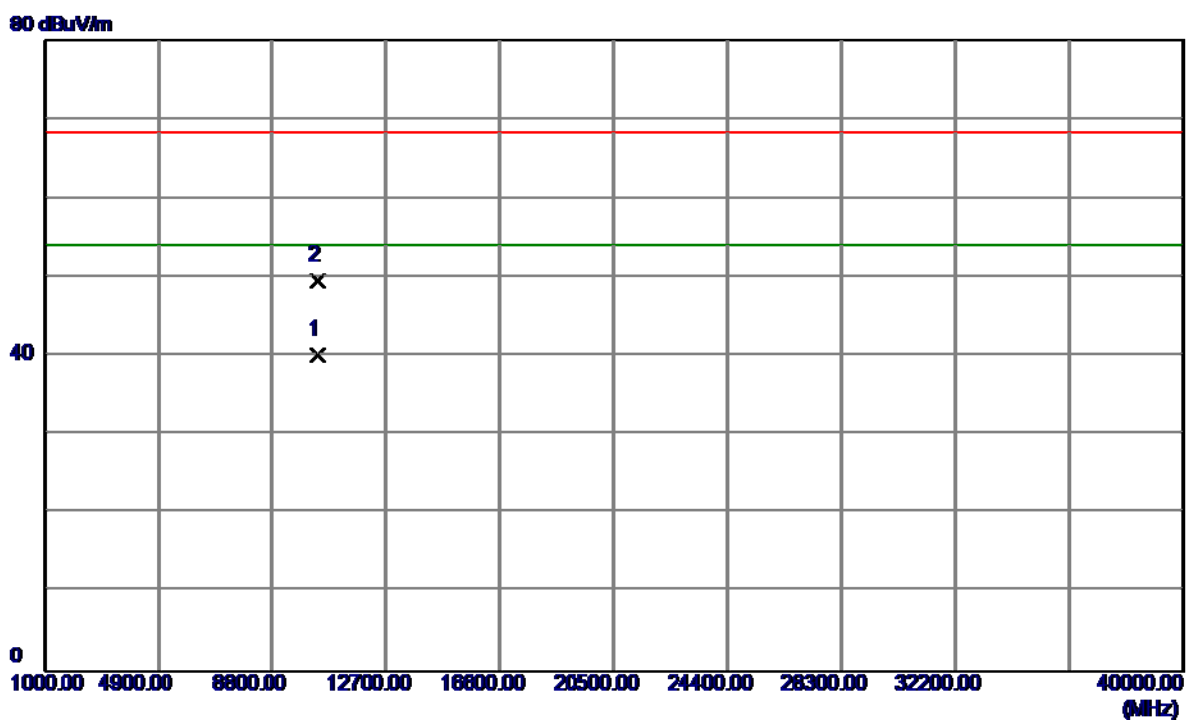
### Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment  |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|----------|
| 1   |     | 5150.000     | 19.98                    | 37.89                   | 57.87                      | 68.30           | -10.43     | peak     |          |
| 2   |     | 5150.000     | 10.30                    | 37.89                   | 48.19                      | 54.00           | -5.81      | AVG      |          |
| 3   | X   | 5175.000     | 54.28                    | 38.00                   | 92.28                      | 68.30           | 23.98      | peak     | No Limit |
| 4   | *   | 5178.000     | 45.40                    | 38.02                   | 83.42                      | 54.00           | 29.42      | AVG      | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N40 Mode 5190MHz |

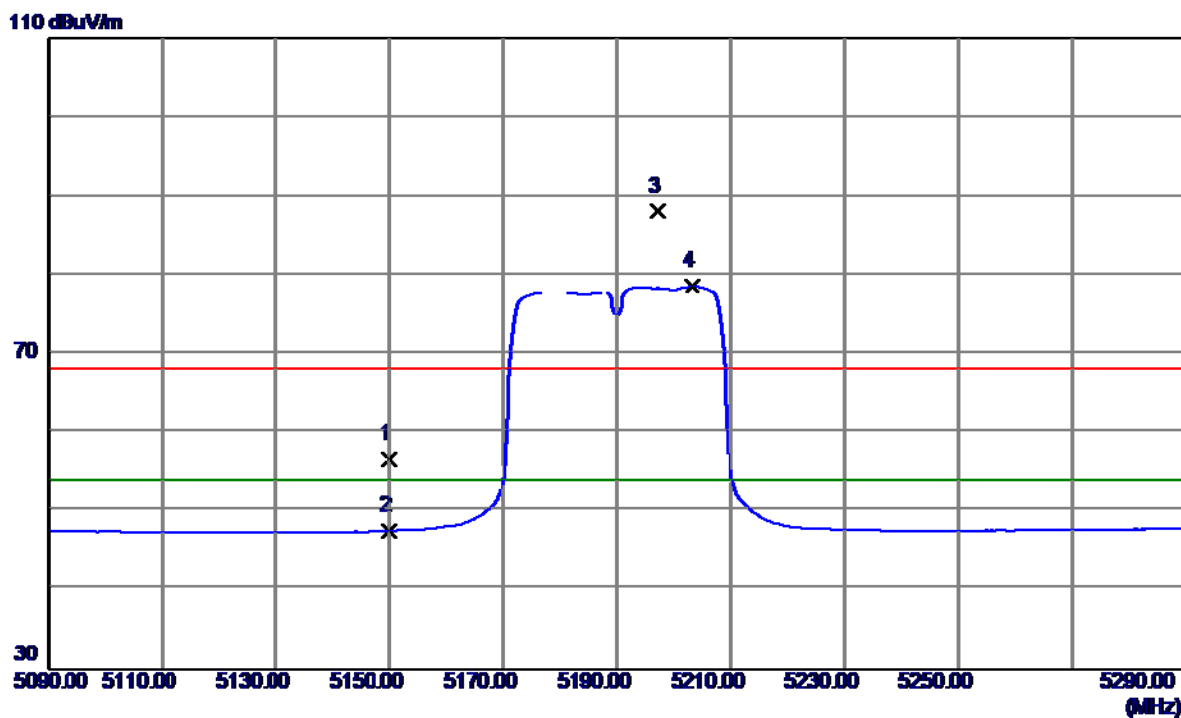
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10378.9000   | 25.78                      | 14.36                   | 40.14                     | 54.00           | -13.86       | AVG      |         |
| 2   | 10379.8000   | 35.18                      | 14.36                   | 49.54                     | 68.30           | -18.76       | Peak     |         |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N40 Mode 5190MHz |

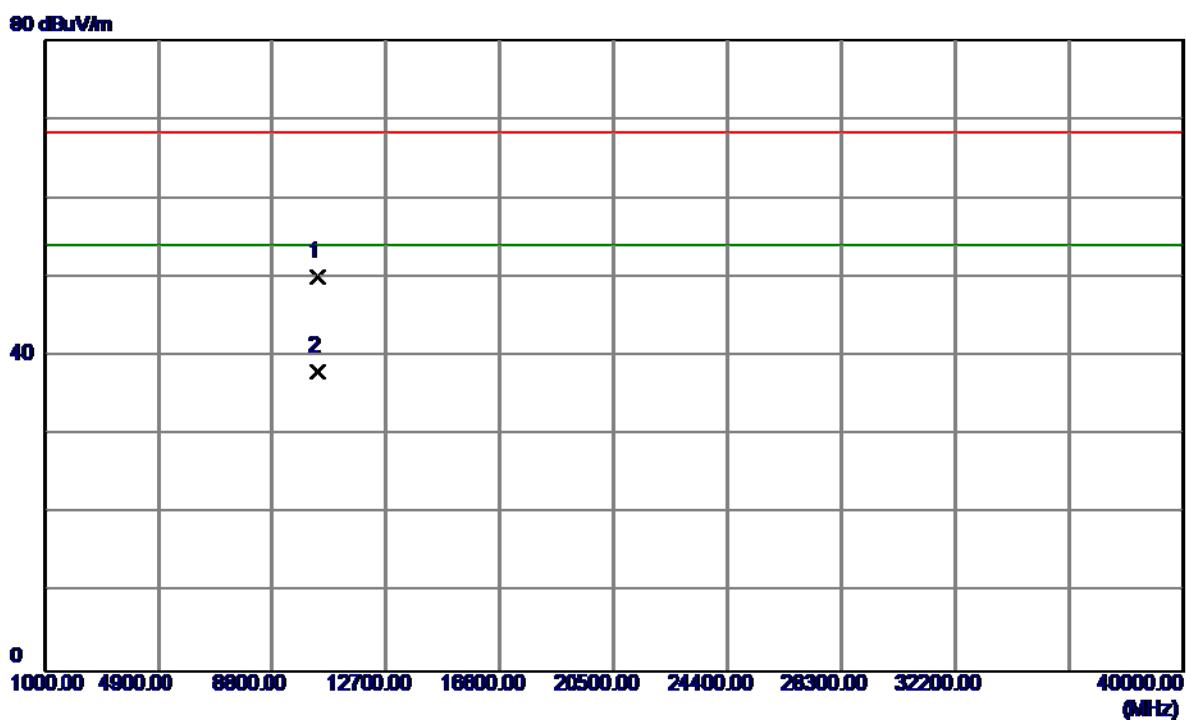
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5150.0000    | 18.80                      | 37.89                   | 56.69                     | 68.30           | -11.61       | Peak     |          |
| 2   | 5150.0000    | 9.76                       | 37.89                   | 47.65                     | 54.00           | -6.35        | AVG      |          |
| 3   | 5197.2000    | 49.98                      | 38.10                   | 88.08                     | 68.30           | 19.78        | Peak     | No Limit |
| 4   | 5203.4000    | 40.48                      | 38.13                   | 78.61                     | 54.00           | 24.61        | AVG      | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N40 Mode 5190MHz |

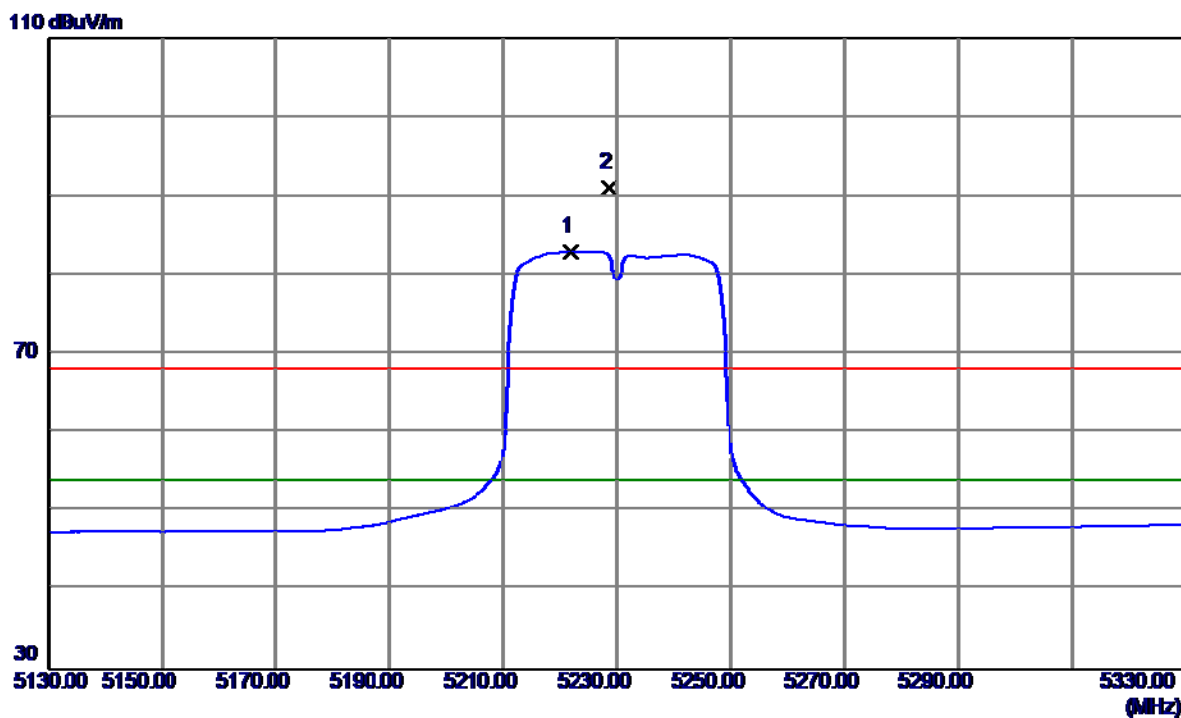
### Horizontal



| No. | Freq.      | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|------------|---------------|----------------|-------------|--------|--------|----------|---------|
|     | MHz        | dBuV/m        | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | 10379.2000 | 35.74         | 14.36          | 50.10       | 68.30  | -18.20 | Peak     |         |
| 2   | 10379.2000 | 23.73         | 14.36          | 38.09       | 54.00  | -15.91 | AVG      |         |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N40 Mode 5230MHz |

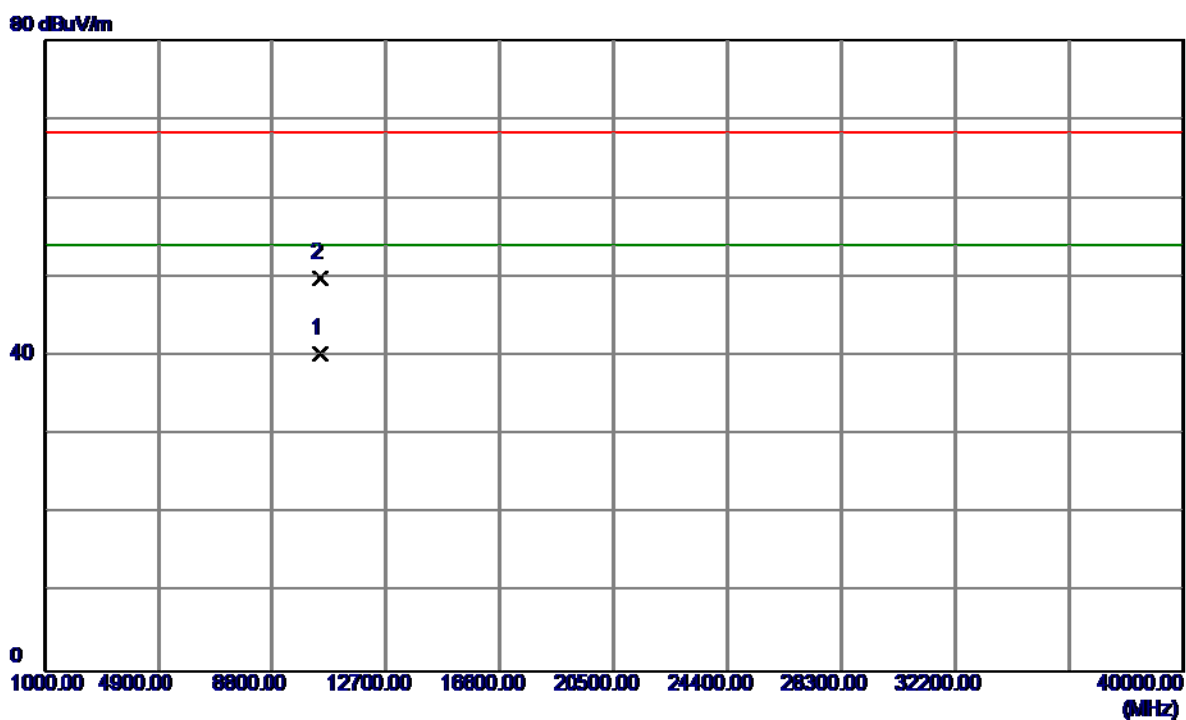
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5221.8000    | 44.78                      | 38.21                   | 82.99                     | 54.00           | 28.99        | AVG      | No Limit |
| 2   | 5228.6000    | 52.92                      | 38.24                   | 91.16                     | 68.30           | 22.86        | Peak     | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N40 Mode 5230MHz |

### Vertical

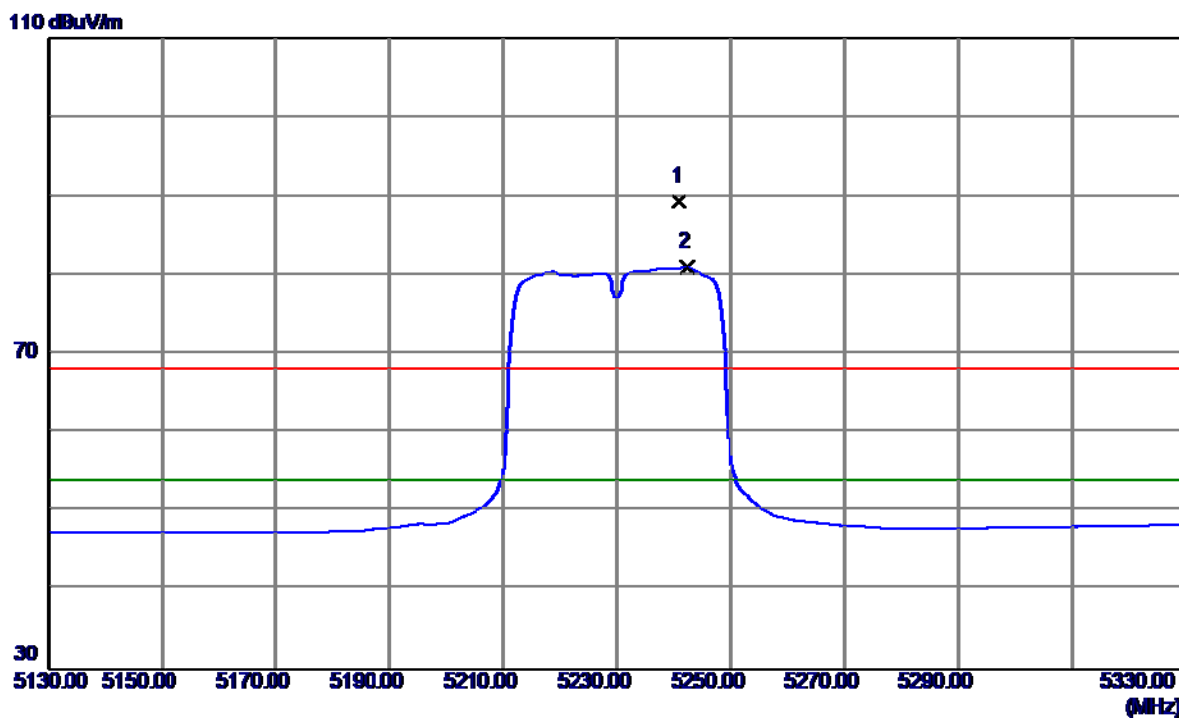


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10459.4000   | 25.78                      | 14.52                   | 40.30                     | 54.00           | -13.70       | AVG      |         |
| 2   | 10460.0000   | 35.38                      | 14.52                   | 49.90                     | 68.30           | -18.40       | Peak     |         |



|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N40 Mode 5230MHz |

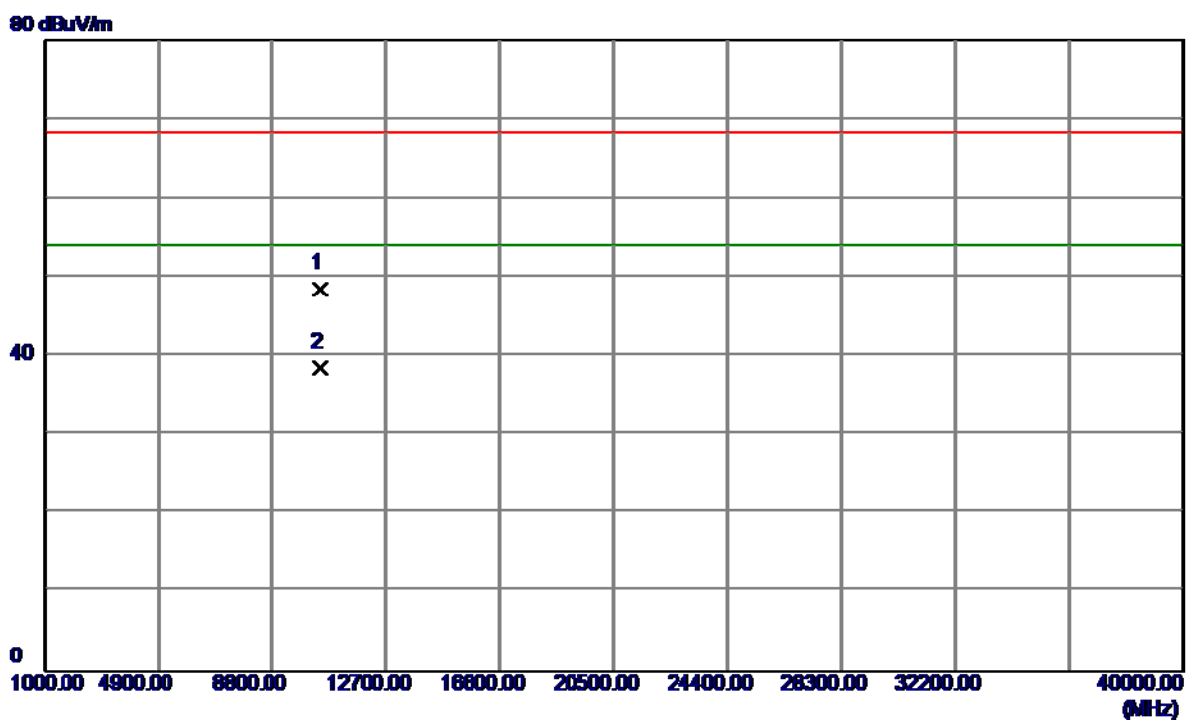
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5241.0000    | 51.11                      | 38.30                   | 89.41                     | 68.30           | 21.11        | Peak     | No Limit |
| 2   | 5242.4000    | 42.72                      | 38.30                   | 81.02                     | 54.00           | 27.02        | AVG      | No Limit |

|                  |                             |
|------------------|-----------------------------|
| Orthogonal Axis: | X                           |
| Test Mode:       | UNII-1/ TX N40 Mode 5230MHz |

### Horizontal

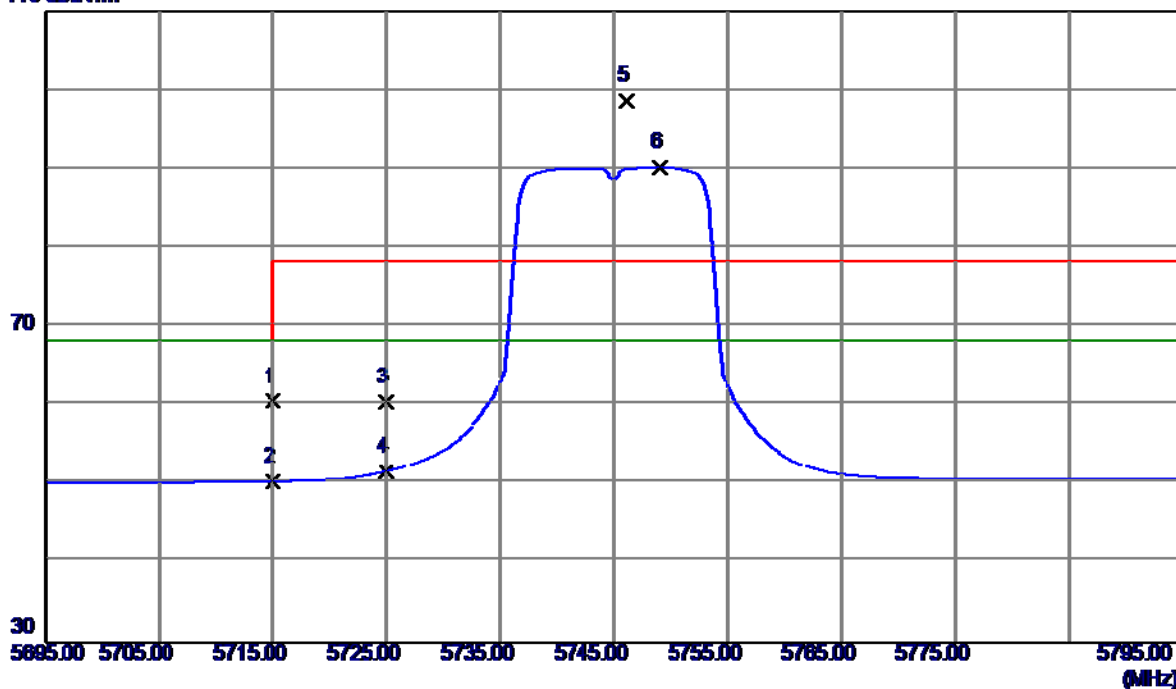


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 10459.7000   | 34.04                      | 14.52                   | 48.56                     | 68.30           | -19.74       | Peak     |         |
| 2   | 10461.0000   | 23.98                      | 14.52                   | 38.50                     | 54.00           | -15.50       | AVG      |         |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5745MHz |

### Vertical

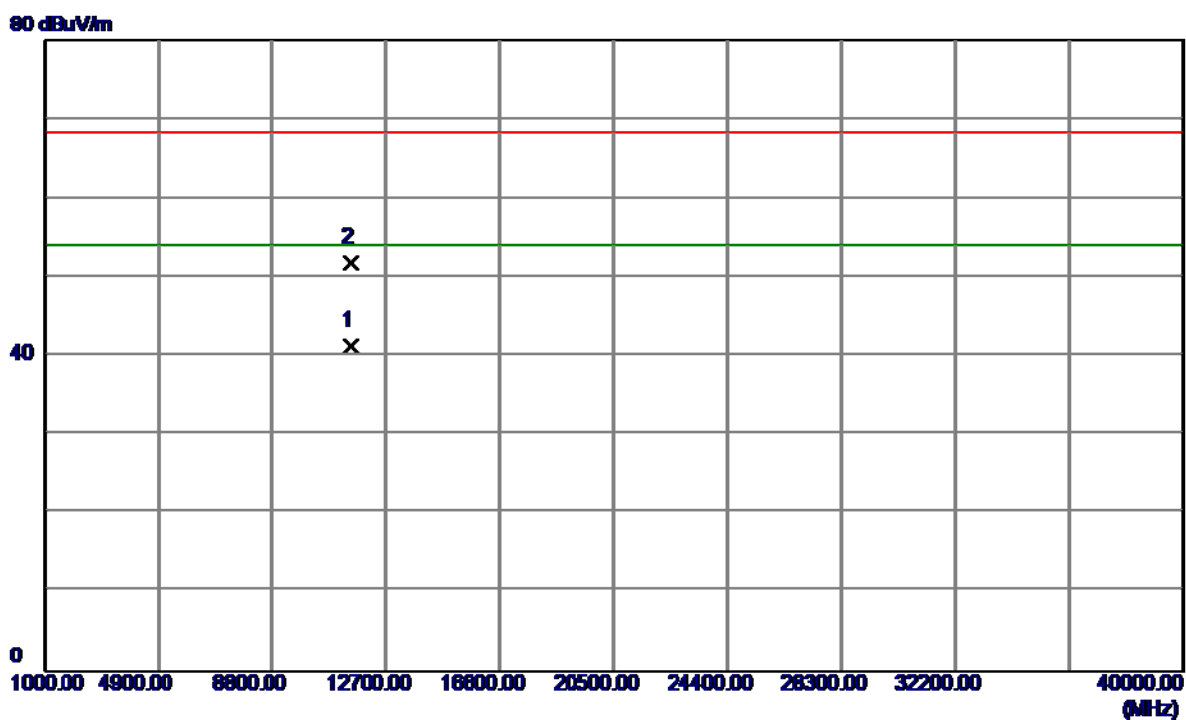
110 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5715.0000    | 19.94                      | 40.54                   | 60.48                     | 68.30           | -7.82        | Peak     |          |
| 2   | 5715.0000    | 9.81                       | 40.54                   | 50.35                     | 68.30           | -17.95       | AVG      |          |
| 3   | 5725.0000    | 19.82                      | 40.59                   | 60.41                     | 78.30           | -17.89       | Peak     |          |
| 4   | 5725.0000    | 11.05                      | 40.59                   | 51.64                     | 68.30           | -16.66       | AVG      |          |
| 5   | 5746.1000    | 57.94                      | 40.70                   | 98.64                     | 78.30           | 20.34        | Peak     | No Limit |
| 6   | 5749.0000    | 49.45                      | 40.71                   | 90.16                     | 68.30           | 21.86        | AVG      | No Limit |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5745MHz |

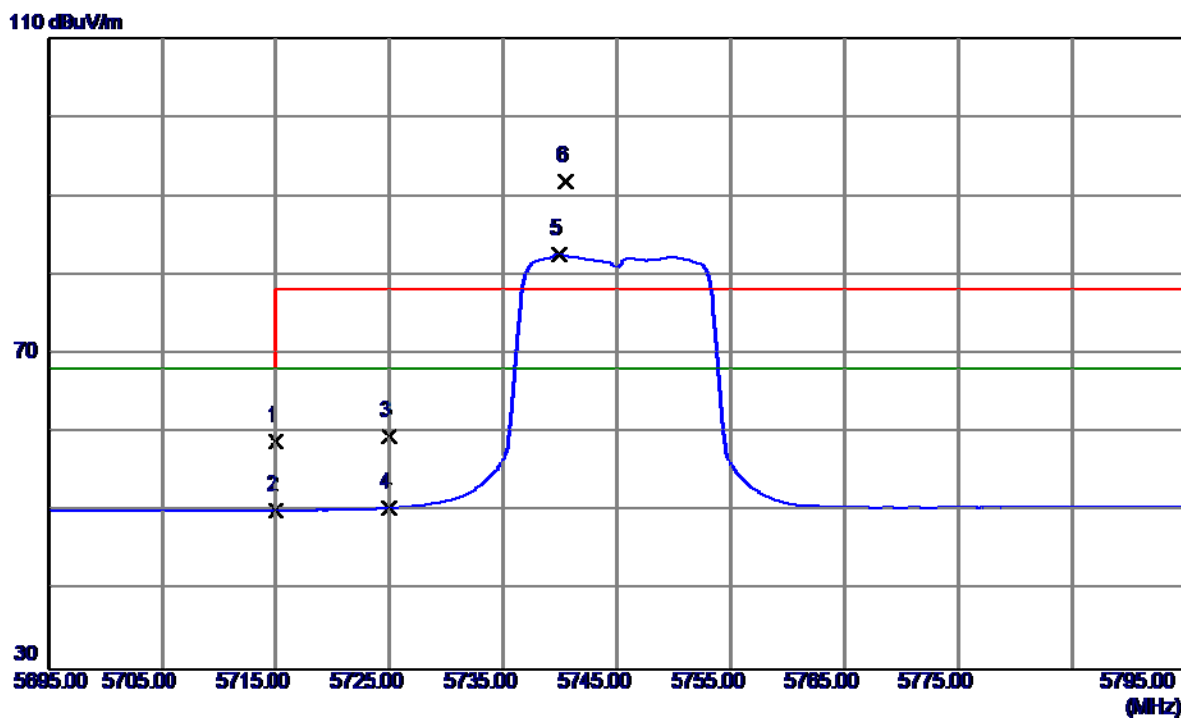
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11486.8000   | 25.76                      | 15.52                   | 41.28                     | 54.00           | -12.72       | AVG      |         |
| 2   | 11489.9000   | 36.31                      | 15.52                   | 51.83                     | 68.30           | -16.47       | Peak     |         |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5745MHz |

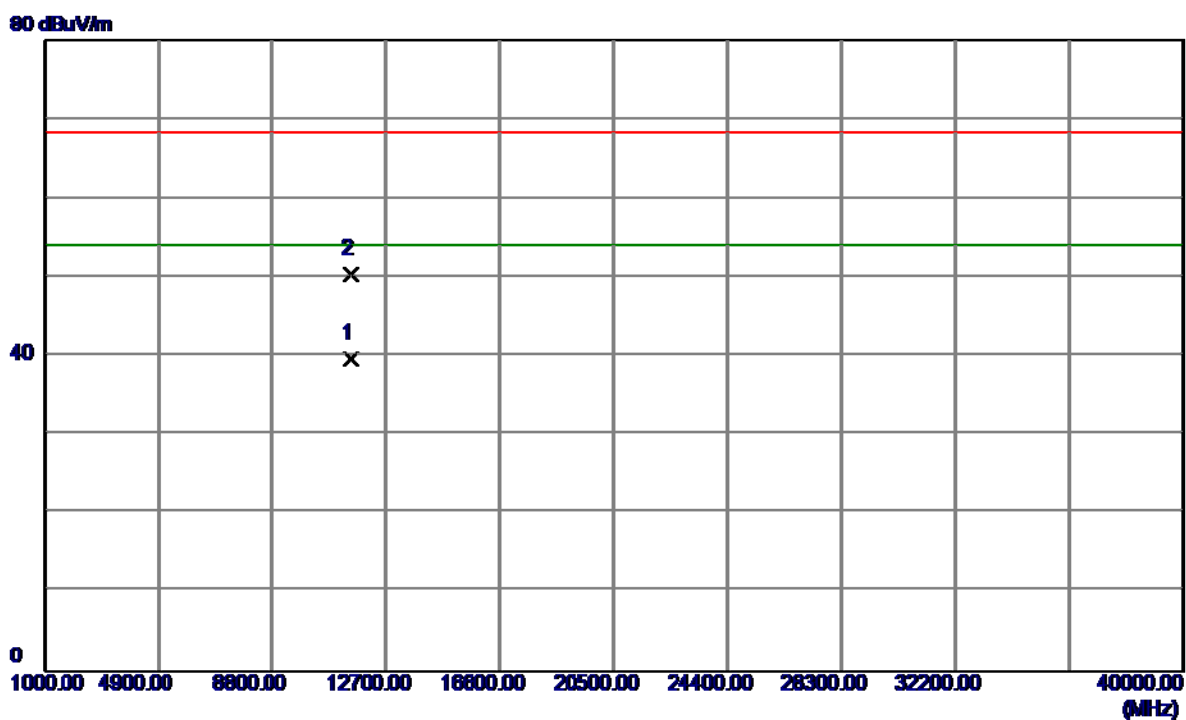
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5715.0000    | 18.43                      | 40.54                   | 58.97                     | 68.30           | -9.33        | Peak     |          |
| 2   | 5715.0000    | 9.68                       | 40.54                   | 50.22                     | 68.30           | -18.08       | AVG      |          |
| 3   | 5725.0000    | 18.99                      | 40.59                   | 59.58                     | 78.30           | -18.72       | Peak     |          |
| 4   | 5725.0000    | 9.90                       | 40.59                   | 50.49                     | 68.30           | -17.81       | AVG      |          |
| 5   | 5739.9000    | 41.98                      | 40.67                   | 82.65                     | 68.30           | 14.35        | AVG      | No Limit |
| 6   | 5740.4000    | 51.22                      | 40.67                   | 91.89                     | 78.30           | 13.59        | Peak     | No Limit |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5745MHz |

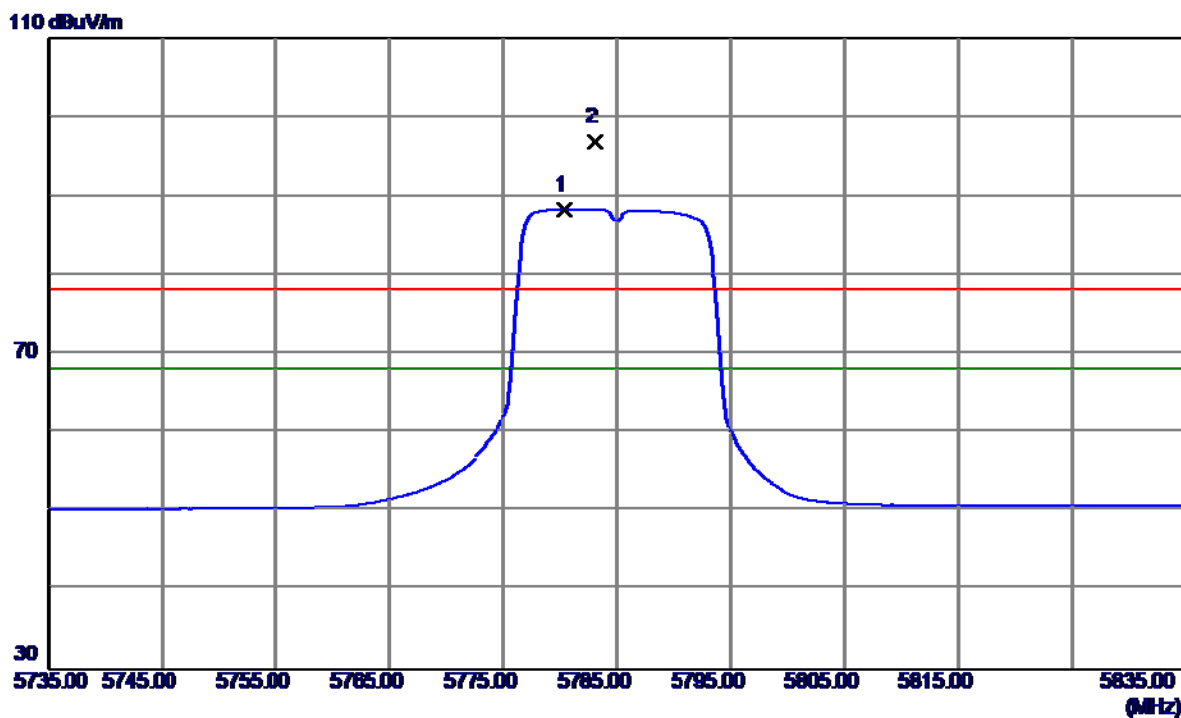
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11489.0000   | 24.15                      | 15.52                   | 39.67                     | 54.00           | -14.33       | AVG      |         |
| 2   | 11490.7000   | 34.82                      | 15.52                   | 50.34                     | 68.30           | -17.96       | Peak     |         |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5785MHz |

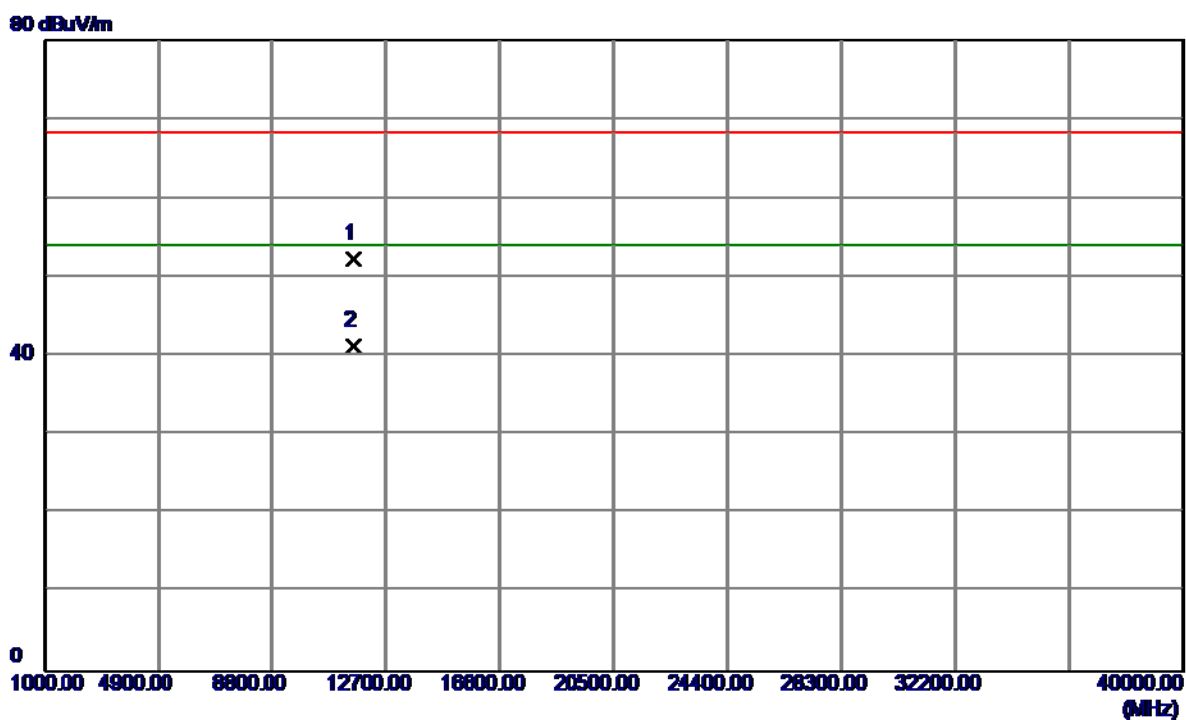
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5780.3000    | 47.43                      | 40.88                   | 88.31                     | 68.30           | 20.01        | AVG      | No Limit |
| 2   | 5783.1000    | 55.97                      | 40.89                   | 96.86                     | 78.30           | 18.56        | Peak     | No Limit |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5785MHz |

### Vertical

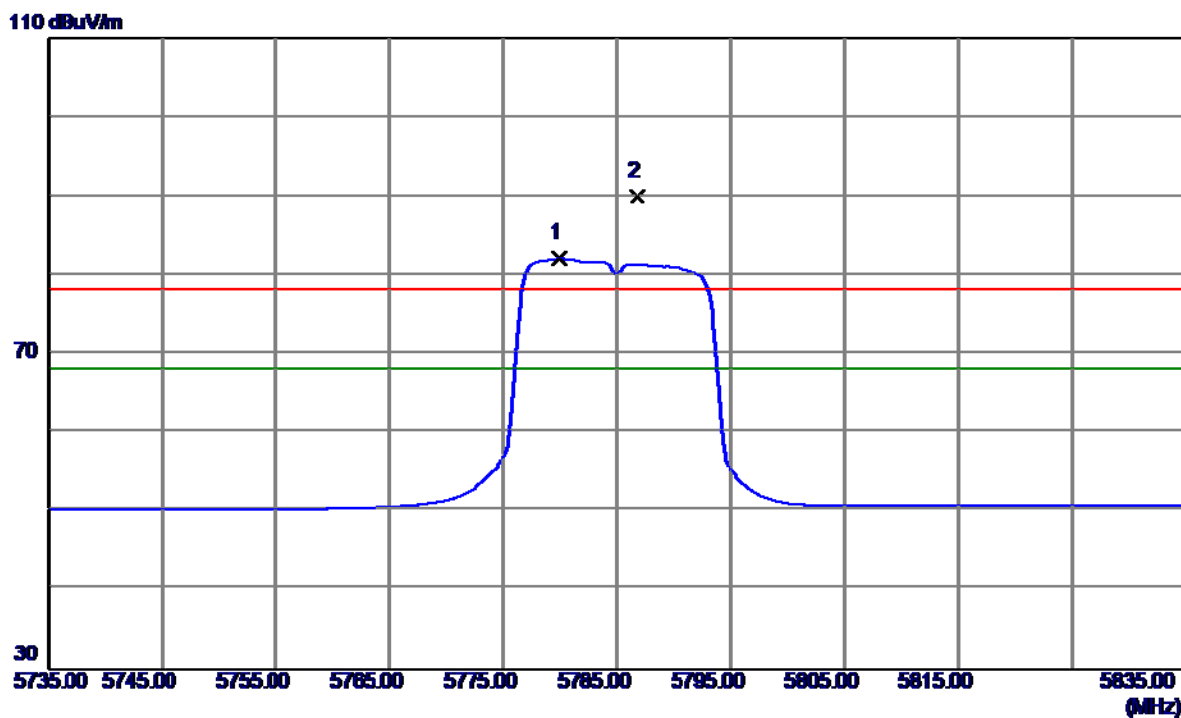


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11569.2000   | 36.82                      | 15.55                   | 52.37                     | 68.30           | -15.93       | Peak     |         |
| 2   | 11570.2000   | 25.67                      | 15.55                   | 41.22                     | 54.00           | -12.78       | AVG      |         |



|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5785MHz |

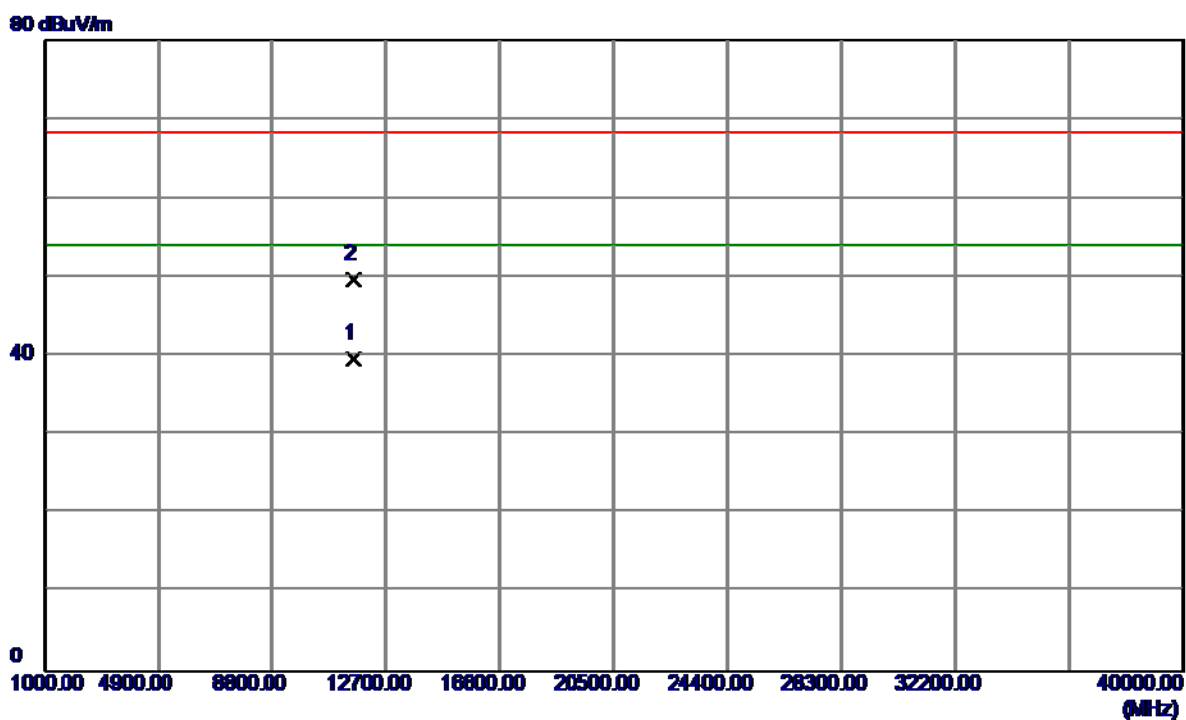
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5779.9000    | 41.25                      | 40.87                   | 82.12                     | 68.30           | 13.82        | AVG      | No Limit |
| 2   | 5786.8000    | 49.08                      | 40.91                   | 89.99                     | 78.30           | 11.69        | Peak     | No Limit |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5785MHz |

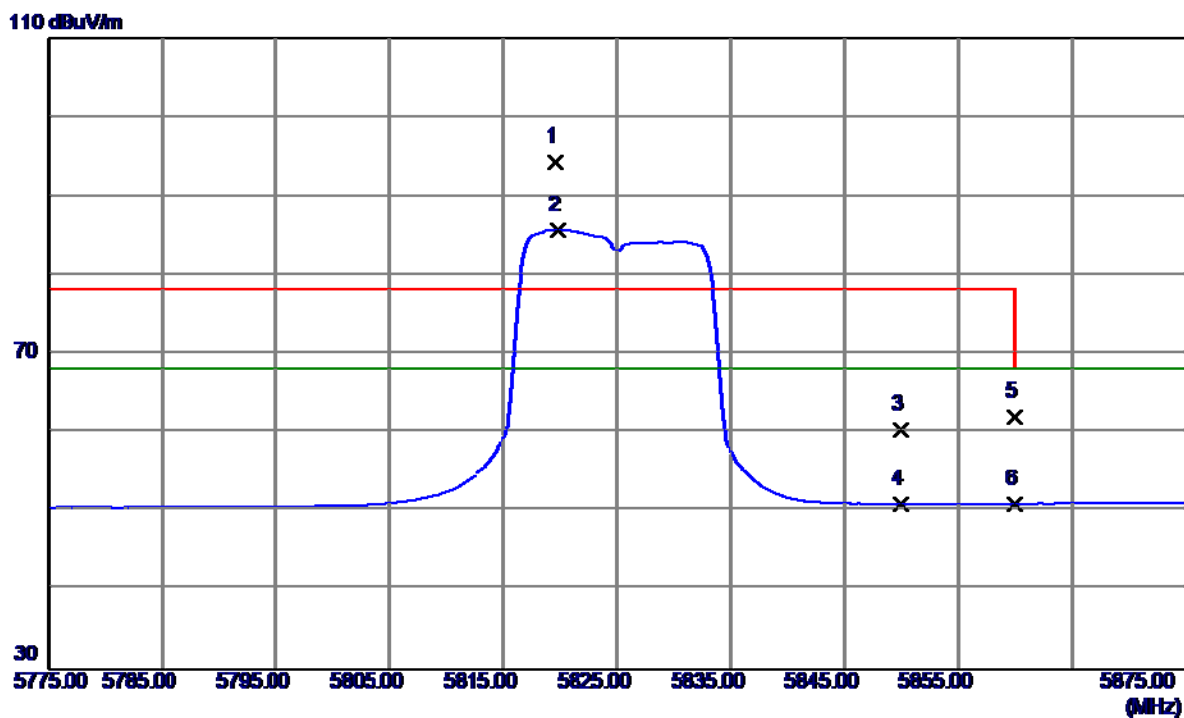
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11569.3000   | 24.10                      | 15.55                   | 39.65                     | 54.00           | -14.35       | AVG      |         |
| 2   | 11570.0000   | 34.19                      | 15.55                   | 49.74                     | 68.30           | -18.56       | Peak     |         |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5825MHz |

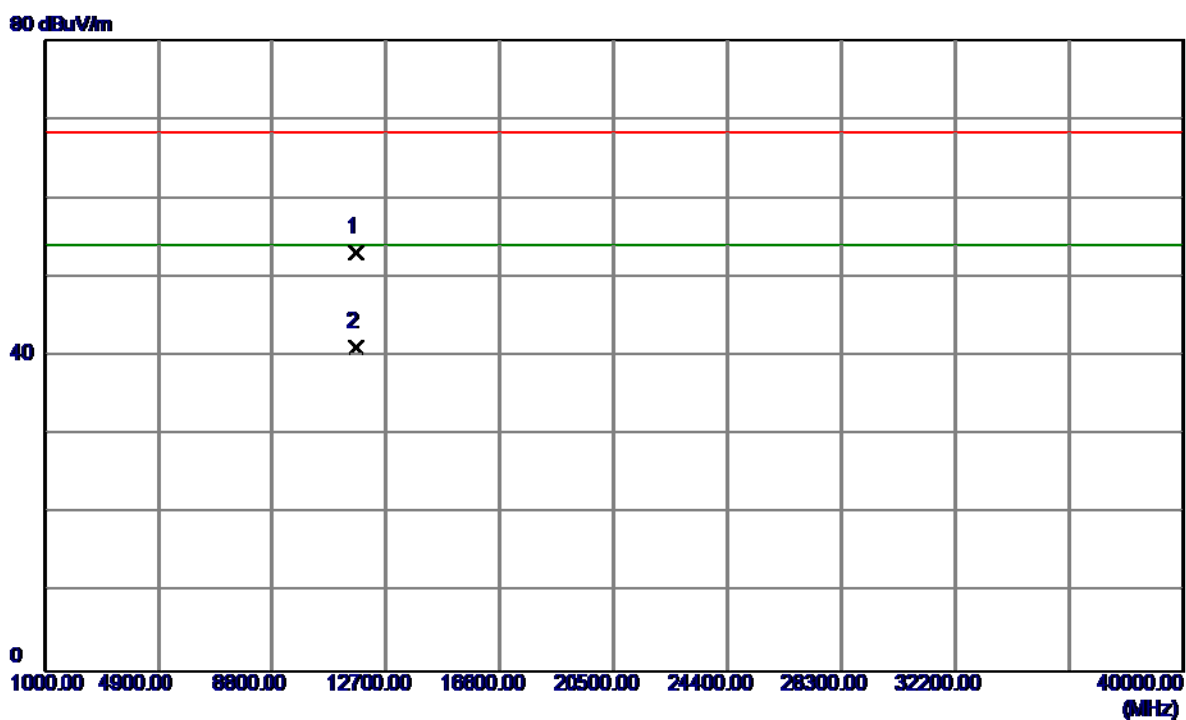
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5819.6000    | 53.17                      | 41.08                   | 94.25                     | 78.30           | 15.95        | Peak     | No Limit |
| 2   | 5819.8000    | 44.65                      | 41.08                   | 85.73                     | 68.30           | 17.43        | AVG      | No Limit |
| 3   | 5850.0000    | 19.20                      | 41.23                   | 60.43                     | 78.30           | -17.87       | Peak     |          |
| 4   | 5850.0000    | 9.72                       | 41.23                   | 50.95                     | 68.30           | -17.35       | AVG      |          |
| 5   | 5860.0000    | 20.73                      | 41.28                   | 62.01                     | 78.30           | -16.29       | Peak     |          |
| 6   | 5860.0000    | 9.74                       | 41.28                   | 51.02                     | 68.30           | -17.28       | AVG      |          |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5825MHz |

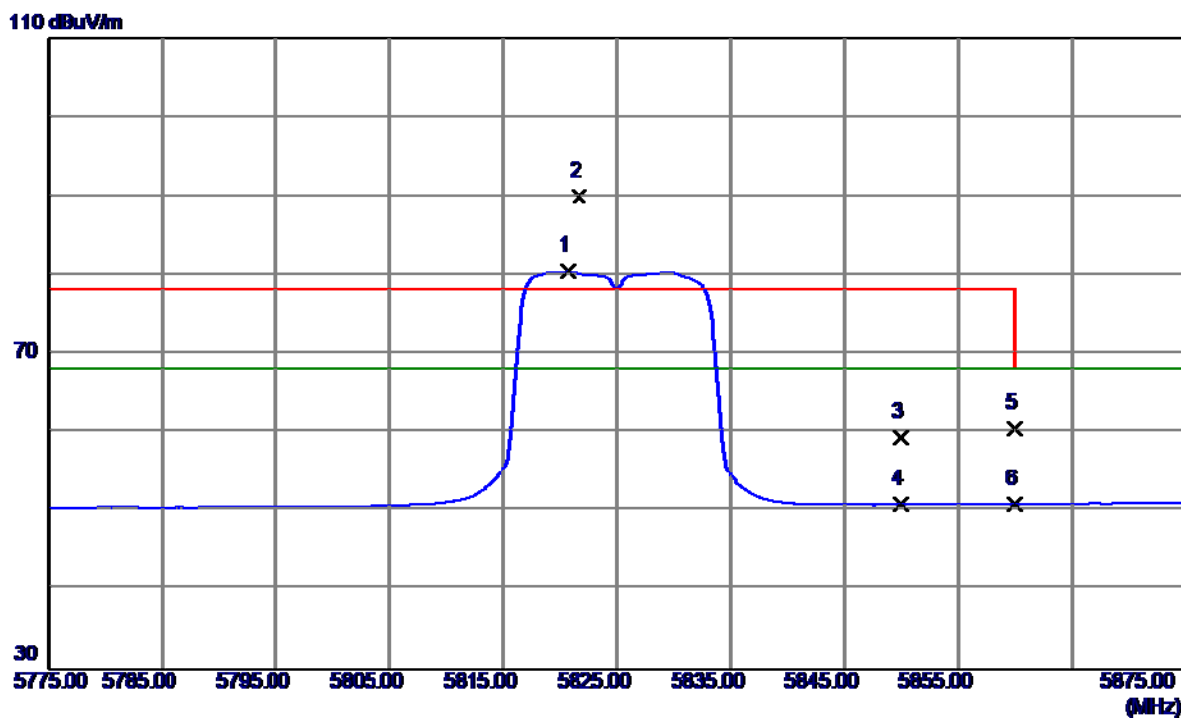
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11647.6000   | 37.59                      | 15.58                   | 53.17                     | 68.30           | -15.13       | Peak     |         |
| 2   | 11650.5199   | 25.51                      | 15.58                   | 41.09                     | 54.00           | -12.91       | AVG      |         |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5825MHz |

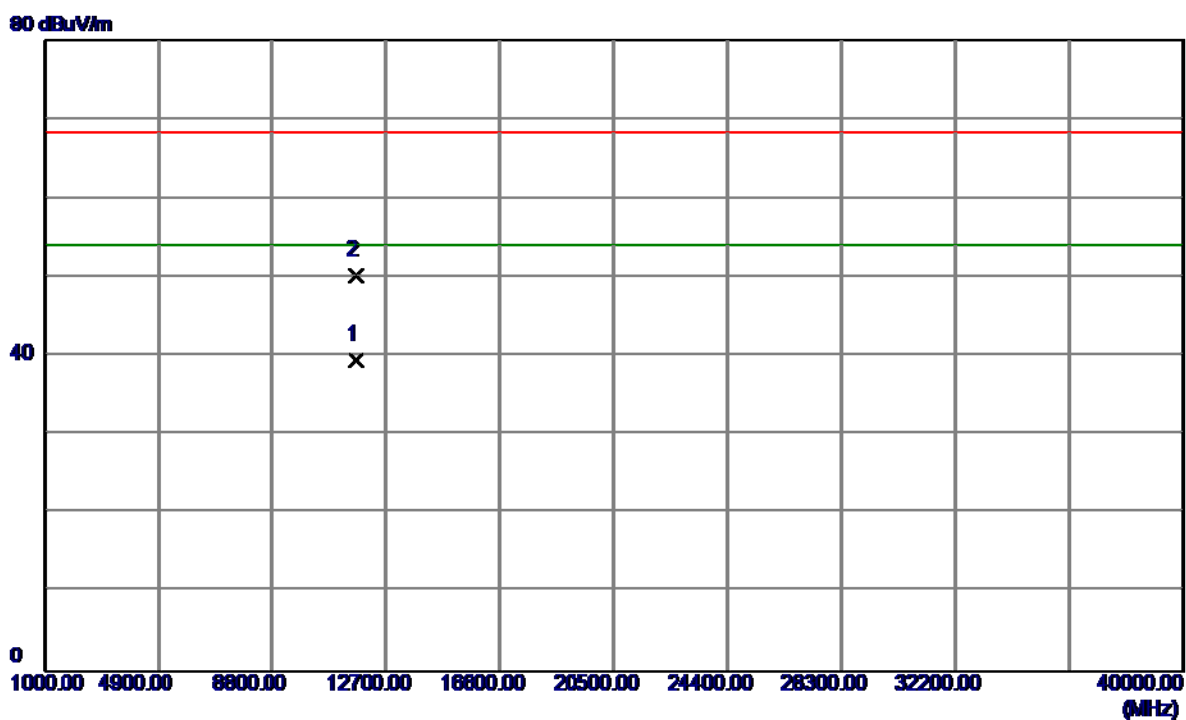
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5820.7000    | 39.42                      | 41.08                   | 80.50                     | 68.30           | 12.20        | AVG      | No Limit |
| 2   | 5821.7000    | 48.88                      | 41.09                   | 89.97                     | 78.30           | 11.67        | Peak     | No Limit |
| 3   | 5850.0000    | 18.20                      | 41.23                   | 59.43                     | 78.30           | -18.87       | Peak     |          |
| 4   | 5850.0000    | 9.67                       | 41.23                   | 50.90                     | 68.30           | -17.40       | AVG      |          |
| 5   | 5860.0000    | 19.24                      | 41.28                   | 60.52                     | 78.30           | -17.78       | Peak     |          |
| 6   | 5860.0000    | 9.70                       | 41.28                   | 50.98                     | 68.30           | -17.32       | AVG      |          |

|                  |                          |
|------------------|--------------------------|
| Orthogonal Axis: | X                        |
| Test Mode:       | UNII-3/TX A Mode 5825MHz |

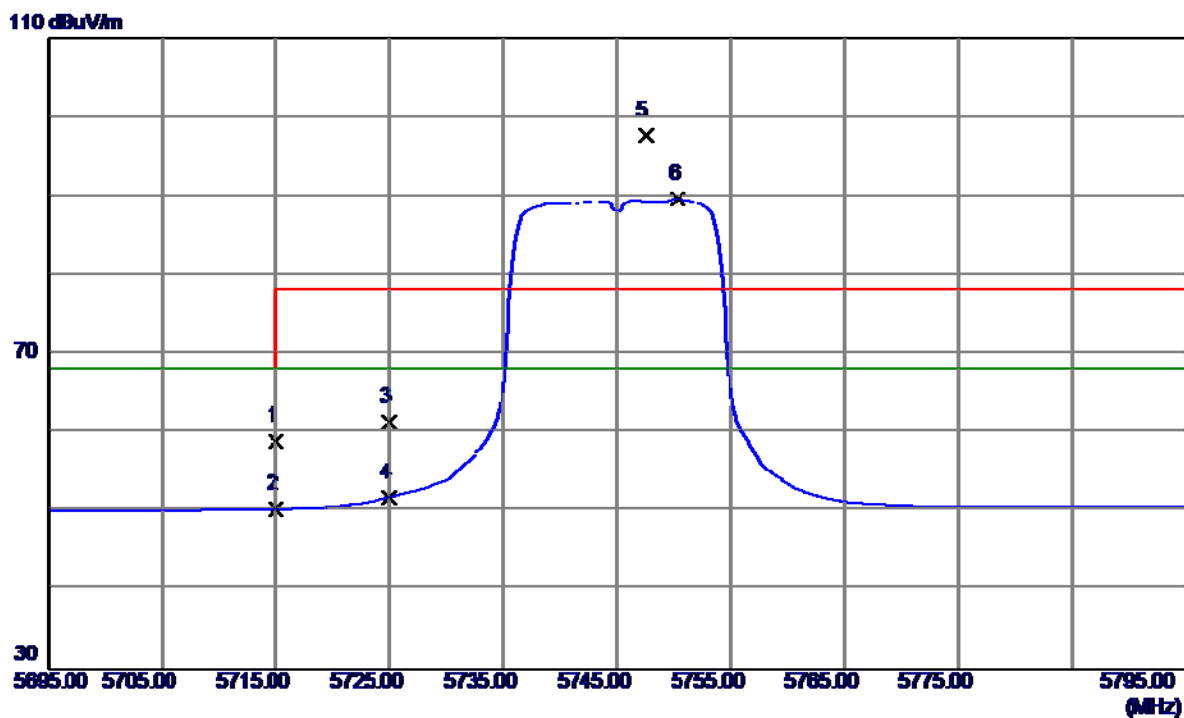
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11651.0000   | 23.87                      | 15.58                   | 39.45                     | 54.00           | -14.55       | AVG      |         |
| 2   | 11652.5000   | 34.60                      | 15.58                   | 50.18                     | 68.30           | -18.12       | Peak     |         |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5745MHz |

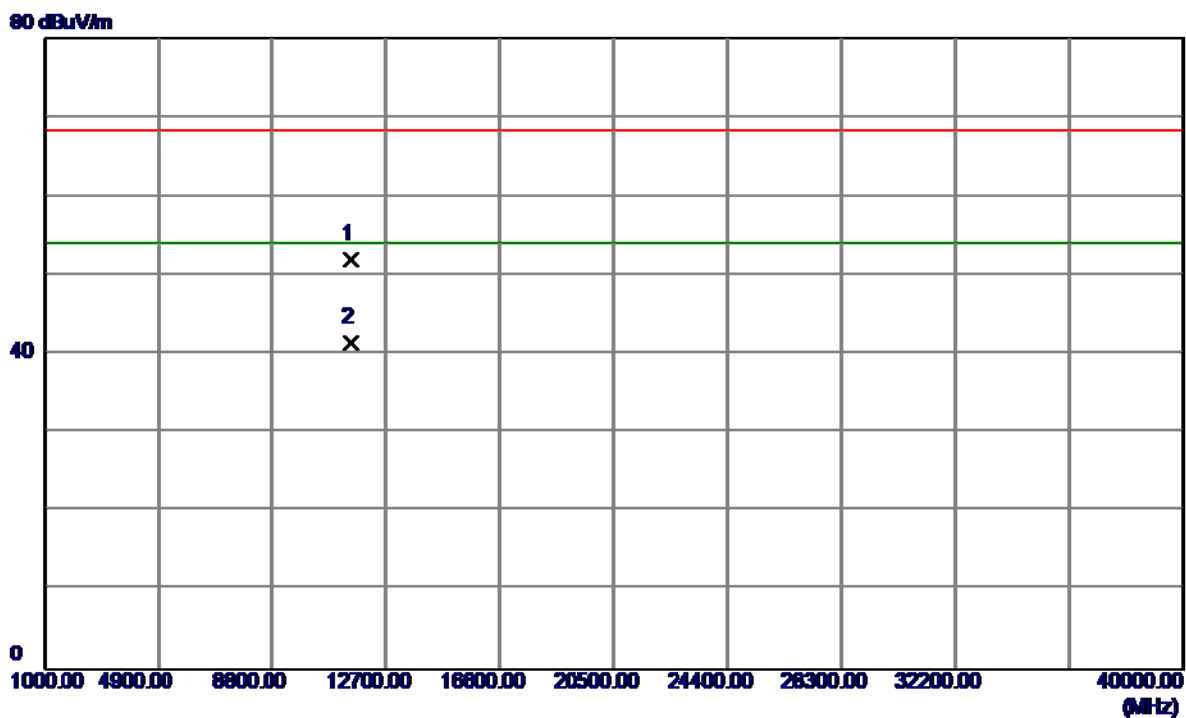
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5715.0000    | 18.47                      | 40.54                   | 59.01                     | 68.30           | -9.29        | Peak     |          |
| 2   | 5715.0000    | 9.81                       | 40.54                   | 50.35                     | 68.30           | -17.95       | AVG      |          |
| 3   | 5725.0000    | 20.72                      | 40.59                   | 61.31                     | 78.30           | -16.99       | Peak     |          |
| 4   | 5725.0000    | 11.23                      | 40.59                   | 51.82                     | 68.30           | -16.48       | AVG      |          |
| 5   | 5747.5000    | 56.99                      | 40.71                   | 97.70                     | 78.30           | 19.40        | Peak     | No Limit |
| 6   | 5750.3000    | 48.94                      | 40.72                   | 89.66                     | 68.30           | 21.36        | AVG      | No Limit |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5745MHz |

### Vertical

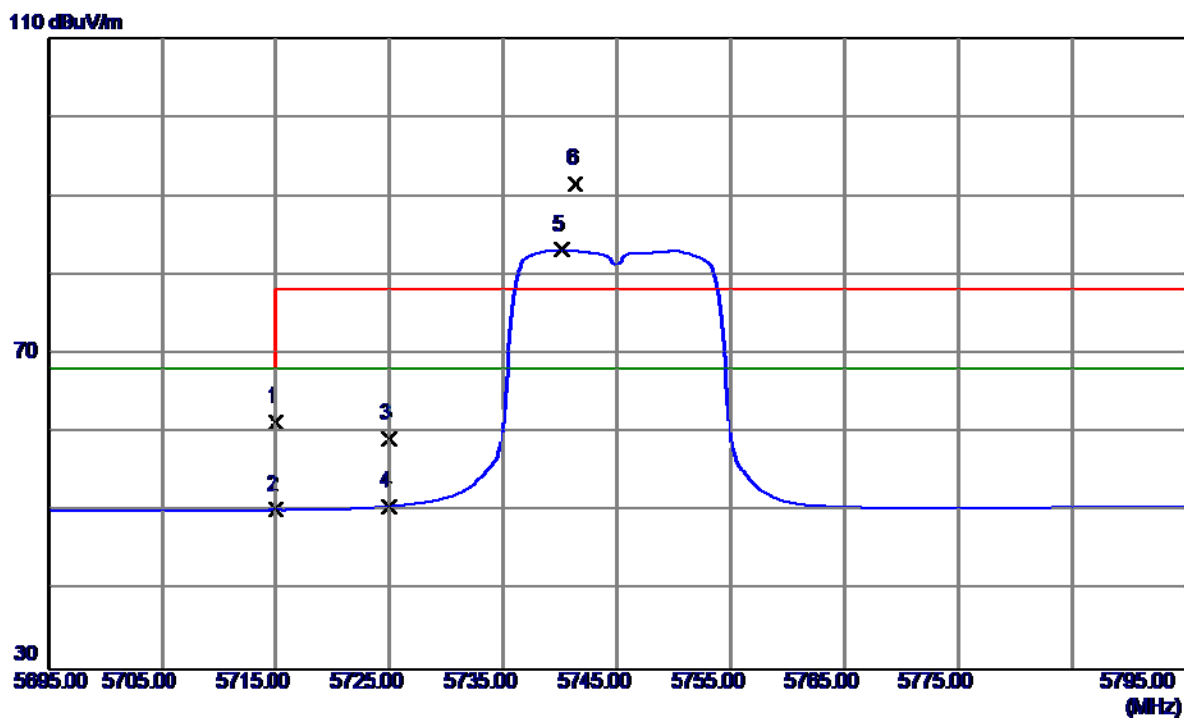


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11489.4000   | 36.53                      | 15.52                   | 52.05                     | 68.30           | -16.25       | Peak     |         |
| 2   | 11490.5700   | 25.93                      | 15.52                   | 41.45                     | 54.00           | -12.55       | AVG      |         |



|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5745MHz |

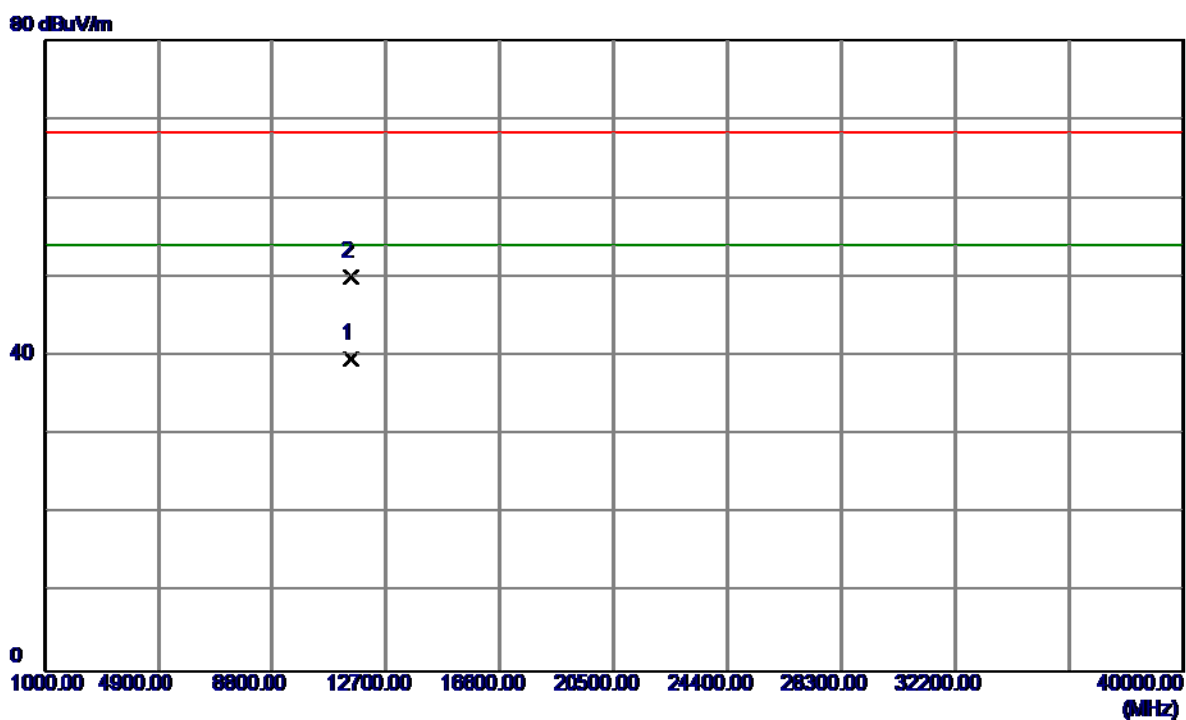
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5715.0000    | 20.86                      | 40.54                   | 61.40                     | 68.30           | -6.90        | Peak     |          |
| 2   | 5715.0000    | 9.70                       | 40.54                   | 50.24                     | 68.30           | -18.06       | AVG      |          |
| 3   | 5725.0000    | 18.68                      | 40.59                   | 59.27                     | 78.30           | -19.03       | Peak     |          |
| 4   | 5725.0000    | 10.11                      | 40.59                   | 50.70                     | 68.30           | -17.60       | AVG      |          |
| 5   | 5740.1000    | 42.53                      | 40.67                   | 83.20                     | 68.30           | 14.90        | AVG      | No Limit |
| 6   | 5741.3000    | 50.92                      | 40.68                   | 91.60                     | 78.30           | 13.30        | Peak     | No Limit |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5745MHz |

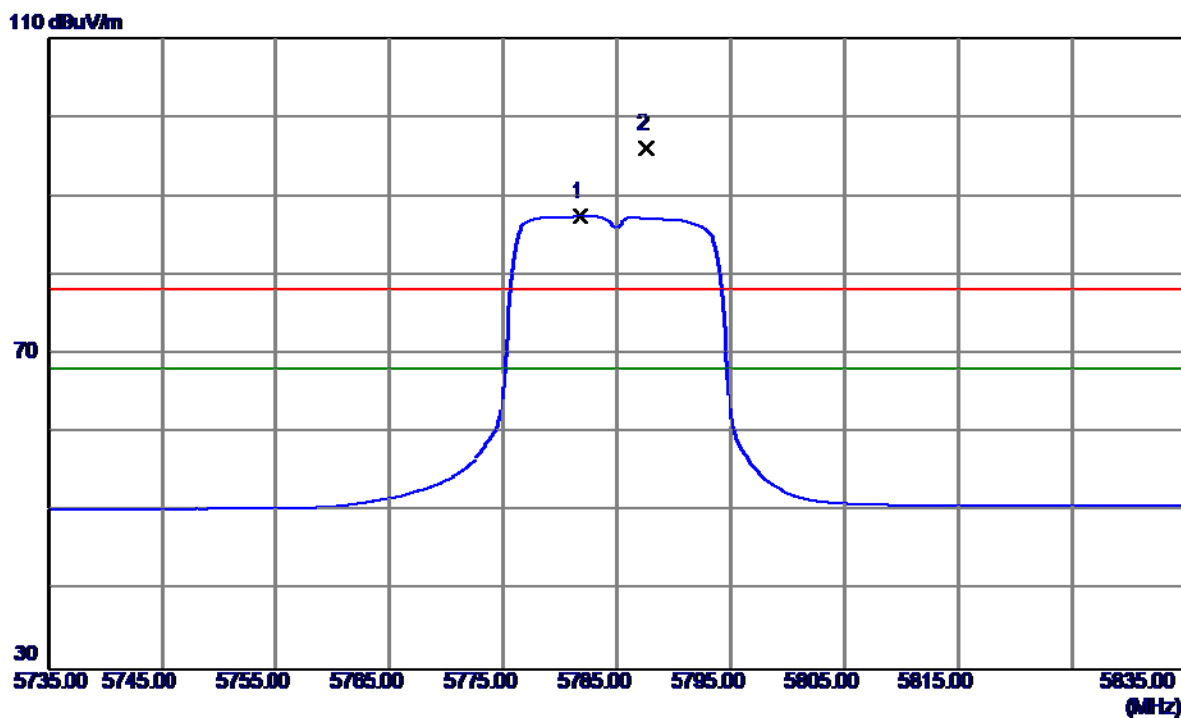
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11488.9000   | 24.16                      | 15.52                   | 39.68                     | 54.00           | -14.32       | AVG      |         |
| 2   | 11489.1000   | 34.51                      | 15.52                   | 50.03                     | 68.30           | -18.27       | Peak     |         |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5785MHz |

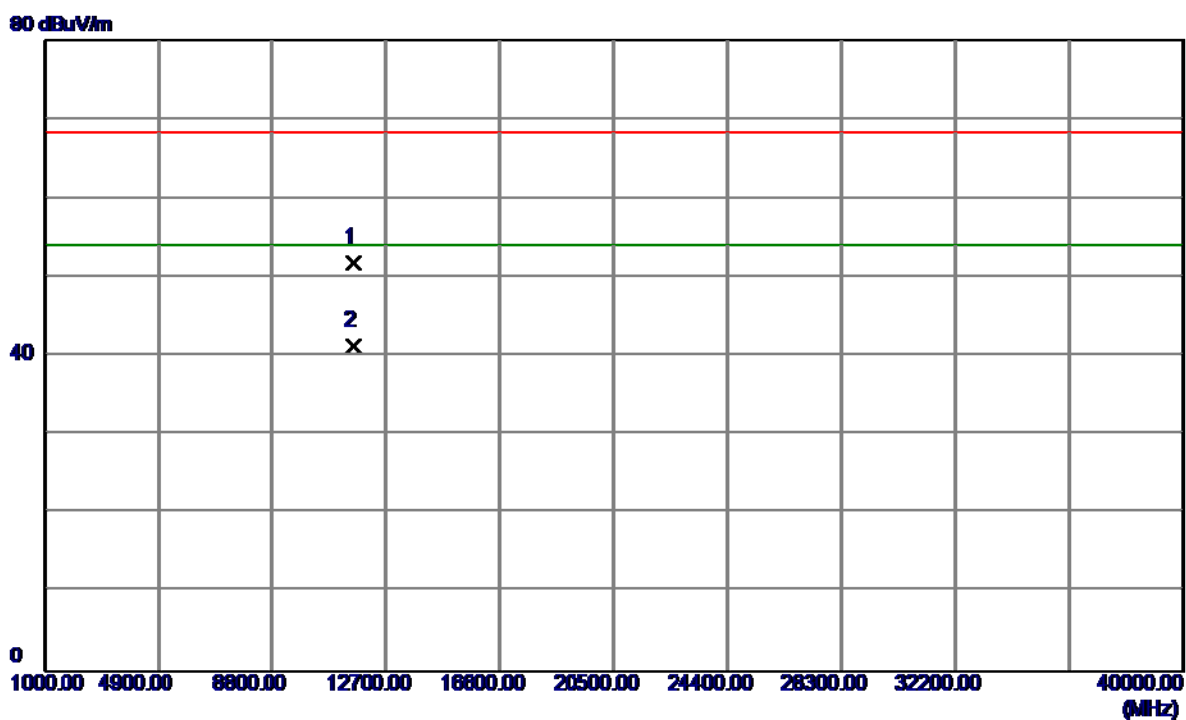
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5781.8000    | 46.62                      | 40.88                   | 87.50                     | 68.30           | 19.20        | AVG      | No Limit |
| 2   | 5787.6000    | 55.09                      | 40.91                   | 96.00                     | 78.30           | 17.70        | Peak     | No Limit |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5785MHz |

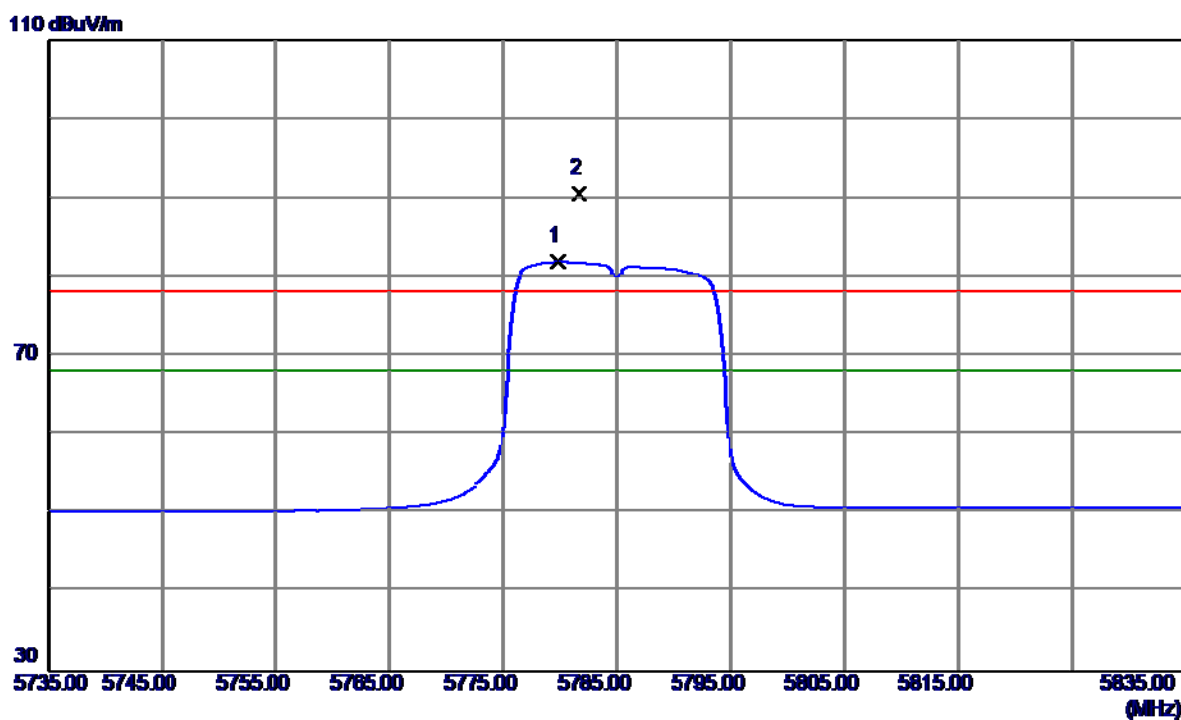
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11569.6000   | 36.33                      | 15.55                   | 51.88                     | 68.30           | -16.42       | Peak     |         |
| 2   | 11570.3400   | 25.68                      | 15.55                   | 41.23                     | 54.00           | -12.77       | AVG      |         |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5785MHz |

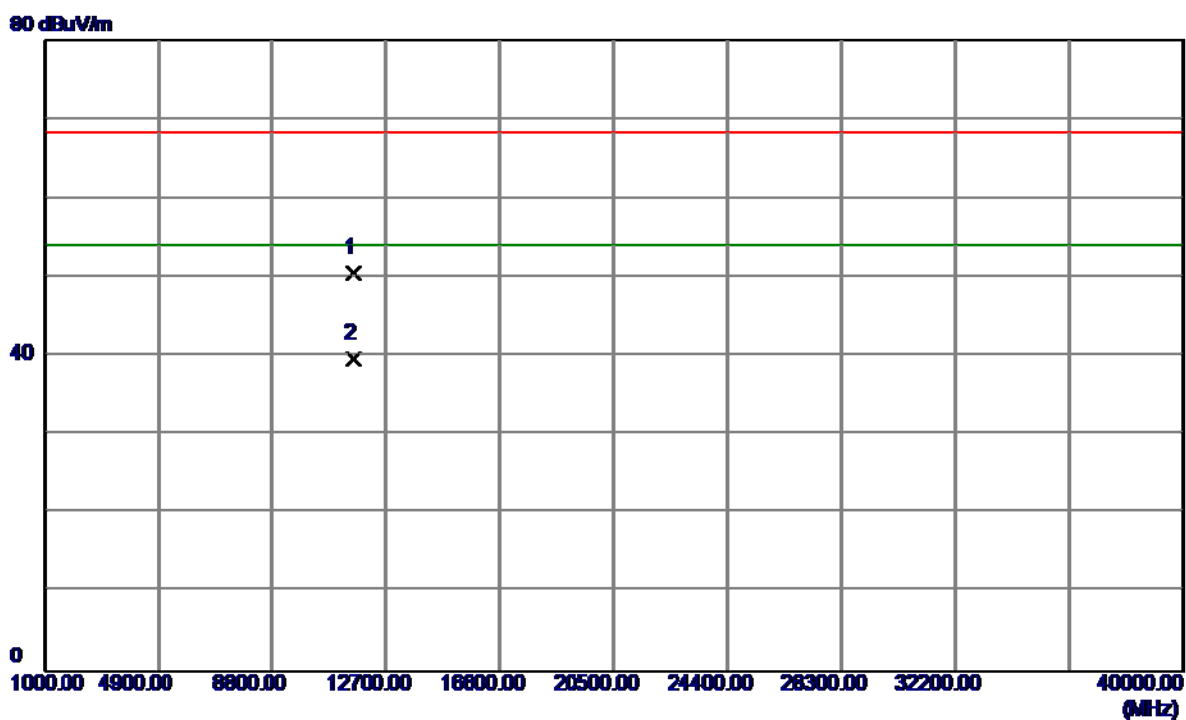
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5779.8000    | 41.10                      | 40.87                   | 81.97                     | 68.30           | 13.67        | AVG      | No Limit |
| 2   | 5781.7000    | 49.81                      | 40.88                   | 90.69                     | 78.30           | 12.39        | Peak     | No Limit |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5785MHz |

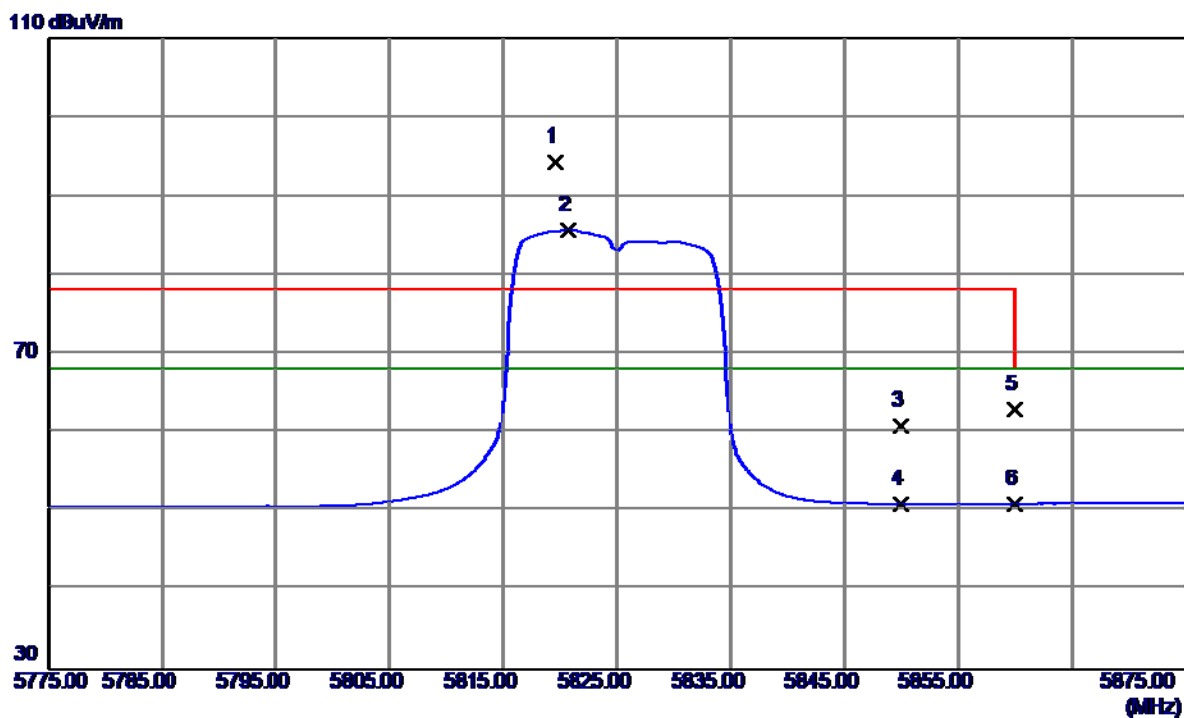
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11569.6000   | 34.99                      | 15.55                   | 50.54                     | 68.30           | -17.76       | Peak     |         |
| 2   | 11571.6000   | 24.12                      | 15.55                   | 39.67                     | 54.00           | -14.33       | AVG      |         |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5825MHz |

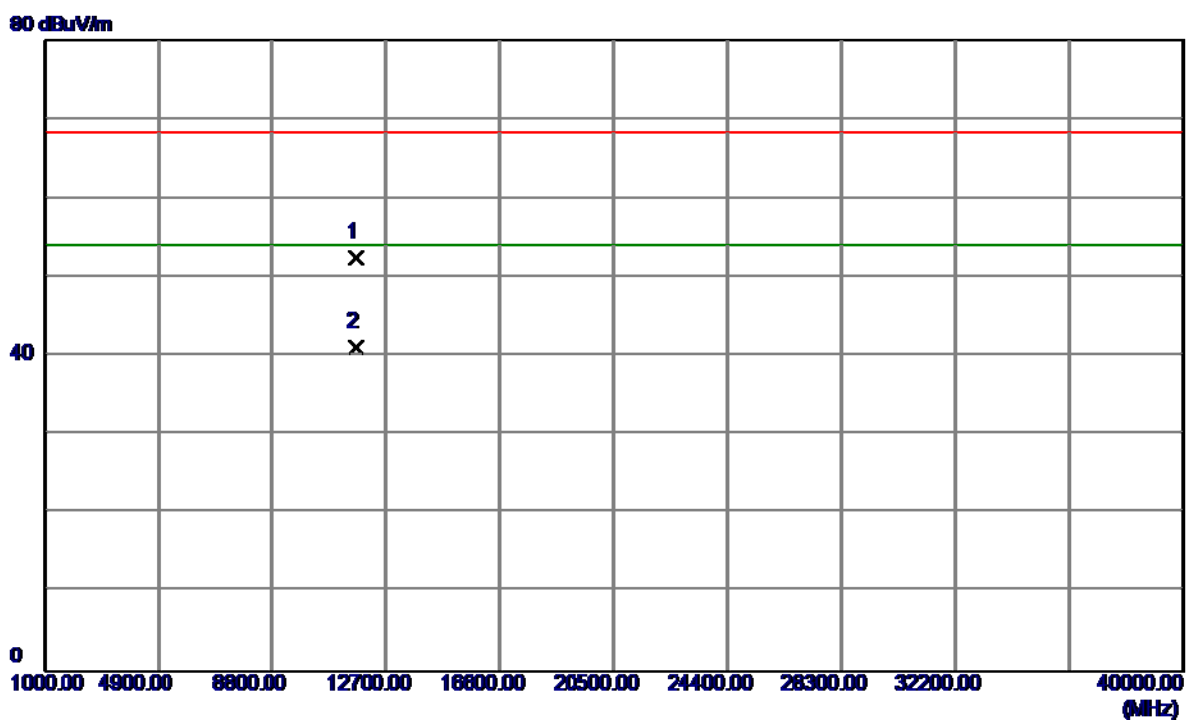
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5819.6000    | 53.27                      | 41.08                   | 94.35                     | 78.30           | 16.05        | Peak     | No Limit |
| 2   | 5820.7000    | 44.63                      | 41.08                   | 85.71                     | 68.30           | 17.41        | AVG      | No Limit |
| 3   | 5850.0000    | 19.72                      | 41.23                   | 60.95                     | 78.30           | -17.35       | Peak     |          |
| 4   | 5850.0000    | 9.76                       | 41.23                   | 50.99                     | 68.30           | -17.31       | AVG      |          |
| 5   | 5860.0000    | 21.70                      | 41.28                   | 62.98                     | 78.30           | -15.32       | Peak     |          |
| 6   | 5860.0000    | 9.74                       | 41.28                   | 51.02                     | 68.30           | -17.28       | AVG      |          |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5825MHz |

### Vertical

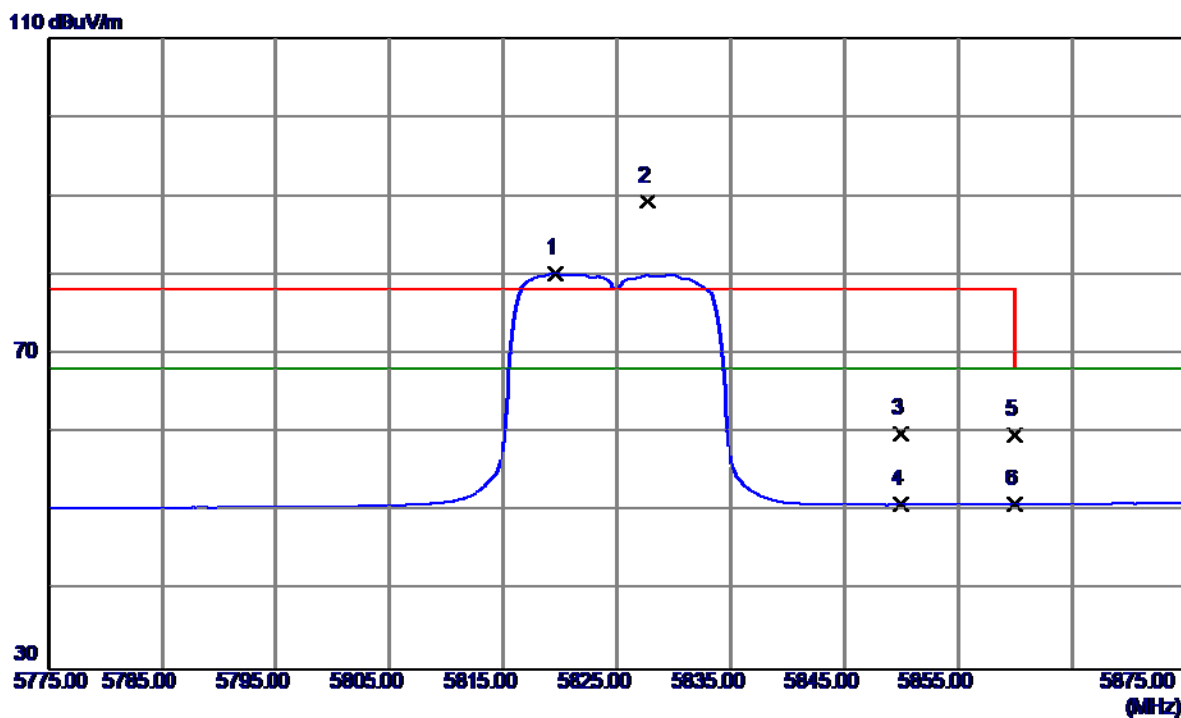


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11648.4000   | 36.90                      | 15.58                   | 52.48                     | 68.30           | -15.82       | Peak     |         |
| 2   | 11650.1000   | 25.53                      | 15.58                   | 41.11                     | 54.00           | -12.89       | AVG      |         |



|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5825MHz |

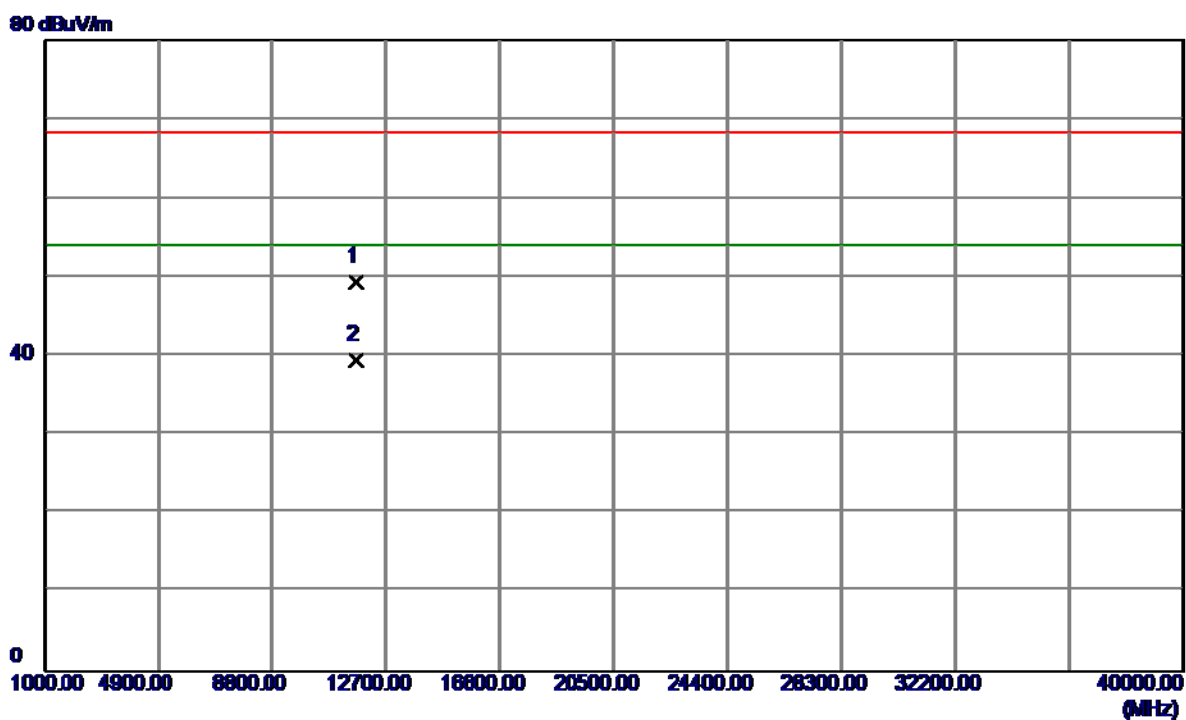
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5819.6000    | 39.24                      | 41.08                   | 80.32                     | 68.30           | 12.02        | AVG      | No Limit |
| 2   | 5827.7000    | 48.22                      | 41.12                   | 89.34                     | 78.30           | 11.04        | Peak     | No Limit |
| 3   | 5850.0000    | 18.76                      | 41.23                   | 59.99                     | 78.30           | -18.31       | Peak     |          |
| 4   | 5850.0000    | 9.69                       | 41.23                   | 50.92                     | 68.30           | -17.38       | AVG      |          |
| 5   | 5860.0000    | 18.55                      | 41.28                   | 59.83                     | 78.30           | -18.47       | Peak     |          |
| 6   | 5860.0000    | 9.71                       | 41.28                   | 50.99                     | 68.30           | -17.31       | AVG      |          |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N20 Mode 5825MHz |

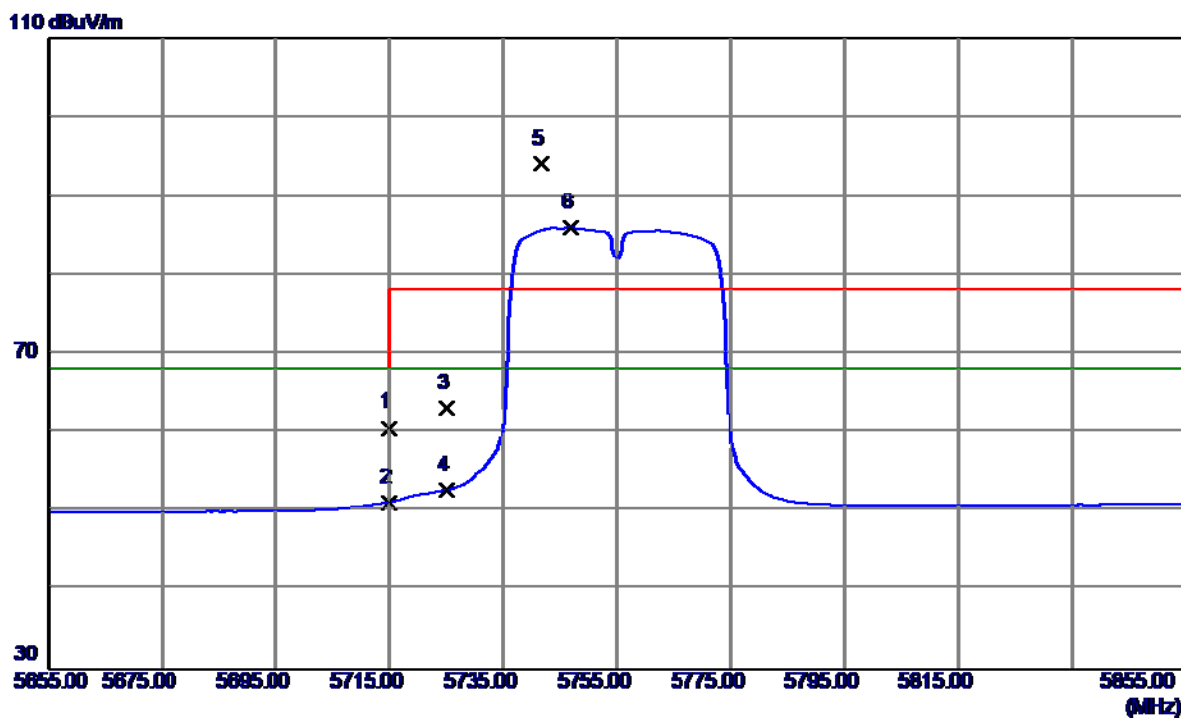
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11649.4000   | 33.84                      | 15.58                   | 49.42                     | 68.30           | -18.88       | Peak     |         |
| 2   | 11649.4000   | 23.89                      | 15.58                   | 39.47                     | 54.00           | -14.53       | AVG      |         |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N40 Mode 5755MHz |

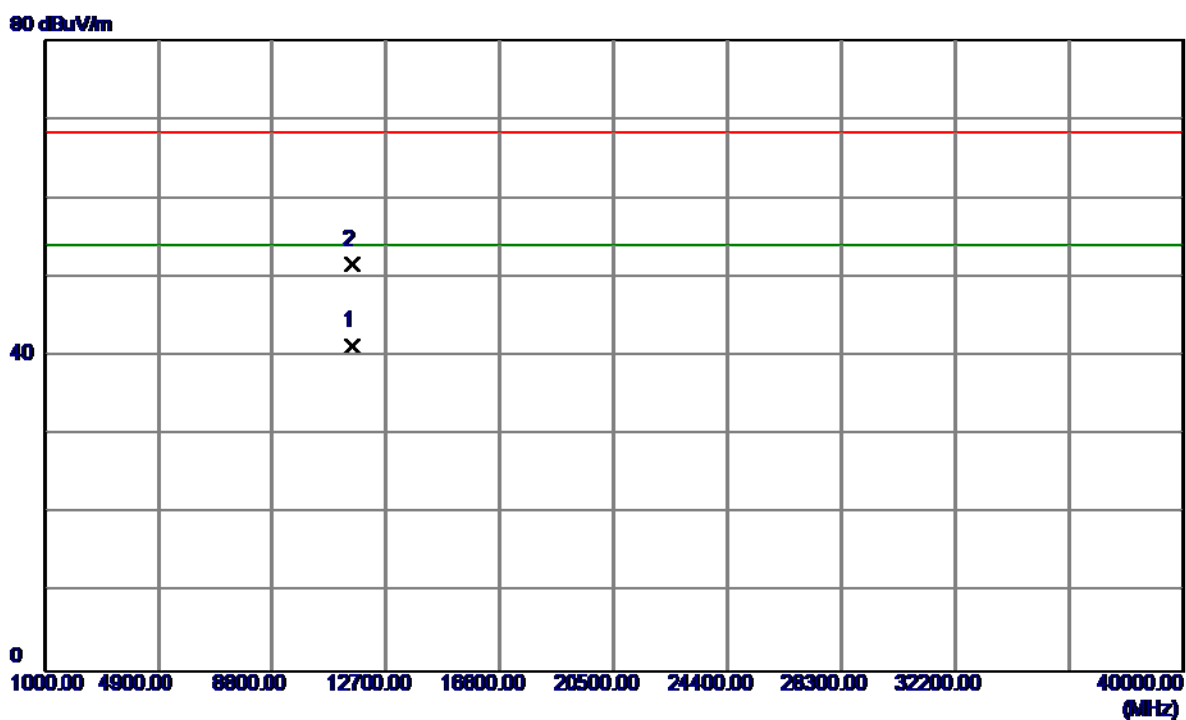
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5715.0000    | 20.10                      | 40.54                   | 60.64                     | 68.30           | -7.66        | Peak     |          |
| 2   | 5715.0000    | 10.64                      | 40.54                   | 51.18                     | 68.30           | -17.12       | AVG      |          |
| 3   | 5725.0000    | 22.52                      | 40.59                   | 63.11                     | 78.30           | -15.19       | Peak     |          |
| 4   | 5725.0000    | 12.14                      | 40.59                   | 52.73                     | 68.30           | -15.57       | AVG      |          |
| 5   | 5741.6000    | 53.40                      | 40.68                   | 94.08                     | 78.30           | 15.78        | Peak     | No Limit |
| 6   | 5746.8000    | 45.24                      | 40.70                   | 85.94                     | 68.30           | 17.64        | AVG      | No Limit |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N40 Mode 5755MHz |

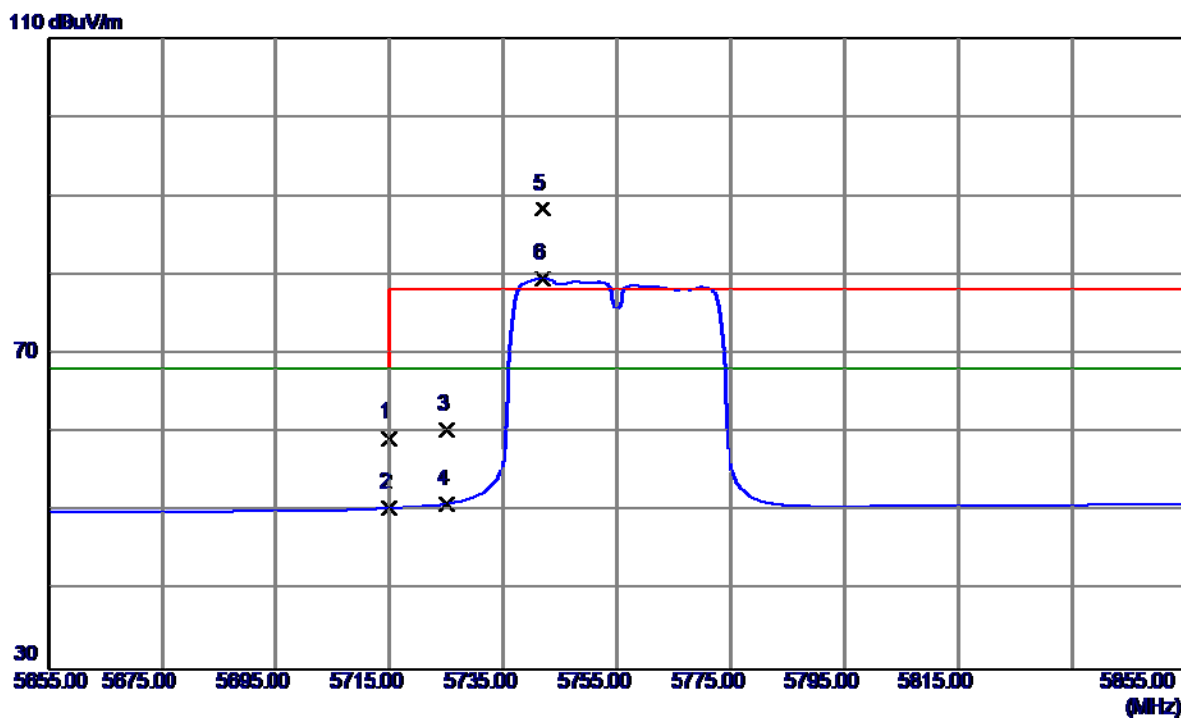
### Vertical



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11508.8000   | 25.78                      | 15.52                   | 41.30                     | 54.00           | -12.70       | AVG      |         |
| 2   | 11511.0000   | 36.08                      | 15.52                   | 51.60                     | 68.30           | -16.70       | Peak     |         |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N40 Mode 5755MHz |

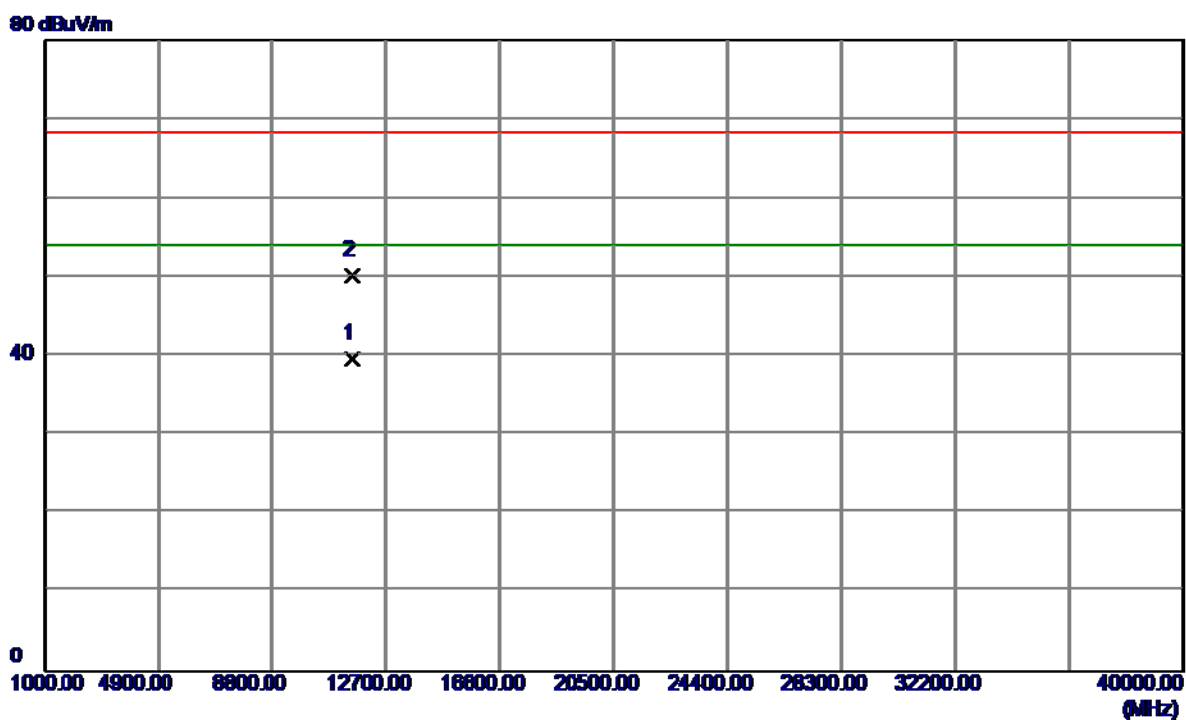
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5715.0000    | 18.82                      | 40.54                   | 59.36                     | 68.30           | -8.94        | Peak     |          |
| 2   | 5715.0000    | 9.92                       | 40.54                   | 50.46                     | 68.30           | -17.84       | AVG      |          |
| 3   | 5725.0000    | 19.82                      | 40.59                   | 60.41                     | 78.30           | -17.89       | Peak     |          |
| 4   | 5725.0000    | 10.44                      | 40.59                   | 51.03                     | 68.30           | -17.27       | AVG      |          |
| 5   | 5741.8000    | 47.79                      | 40.68                   | 88.47                     | 78.30           | 10.17        | Peak     | No Limit |
| 6   | 5741.8000    | 38.92                      | 40.68                   | 79.60                     | 68.30           | 11.30        | AVG      | No Limit |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N40 Mode 5755MHz |

### Horizontal

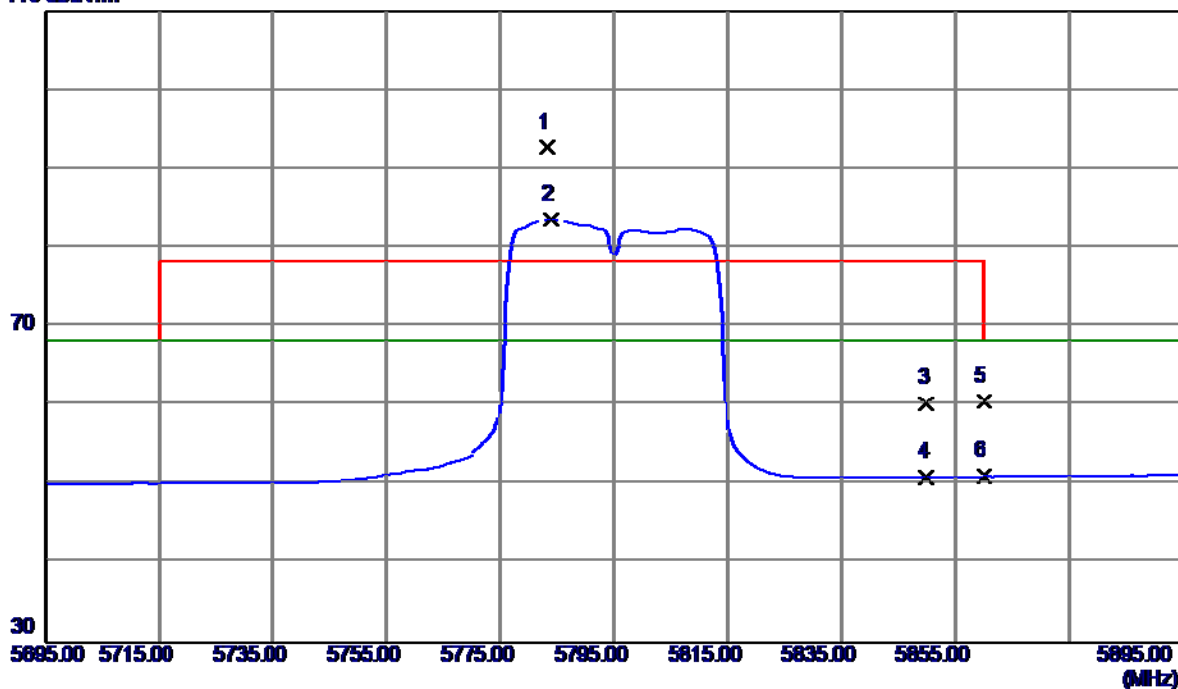


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11510.8000   | 24.12                      | 15.52                   | 39.64                     | 54.00           | -14.36       | AVG      |         |
| 2   | 11509.1000   | 34.73                      | 15.52                   | 50.25                     | 68.30           | -18.05       | Peak     |         |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N40 Mode 5795MHz |

### Vertical

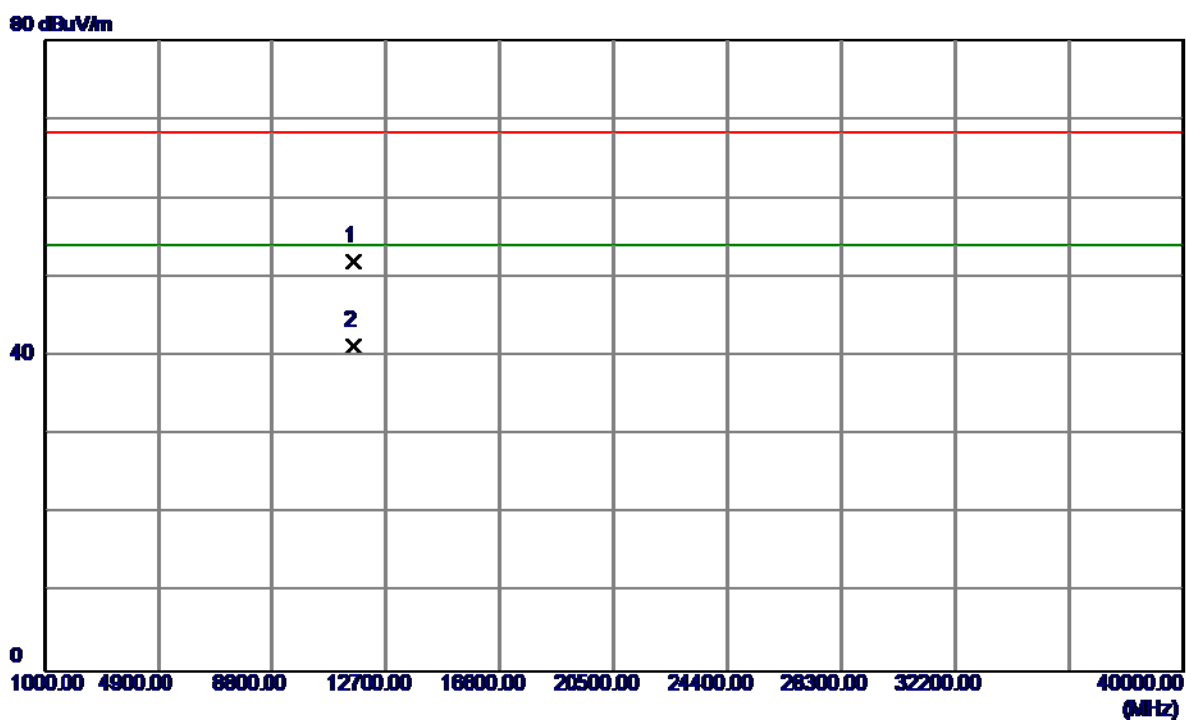
110 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5783.2000    | 51.76                      | 40.89                   | 92.65                     | 78.30           | 14.35        | Peak     | No Limit |
| 2   | 5783.8000    | 42.74                      | 40.89                   | 83.63                     | 68.30           | 15.33        | AVG      | No Limit |
| 3   | 5850.0000    | 19.09                      | 41.23                   | 60.32                     | 78.30           | -17.98       | Peak     |          |
| 4   | 5850.0000    | 9.73                       | 41.23                   | 50.96                     | 68.30           | -17.34       | AVG      |          |
| 5   | 5860.0000    | 19.22                      | 41.28                   | 60.50                     | 78.30           | -17.80       | Peak     |          |
| 6   | 5860.0000    | 9.77                       | 41.28                   | 51.05                     | 68.30           | -17.25       | AVG      |          |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N40 Mode 5795MHz |

### Vertical

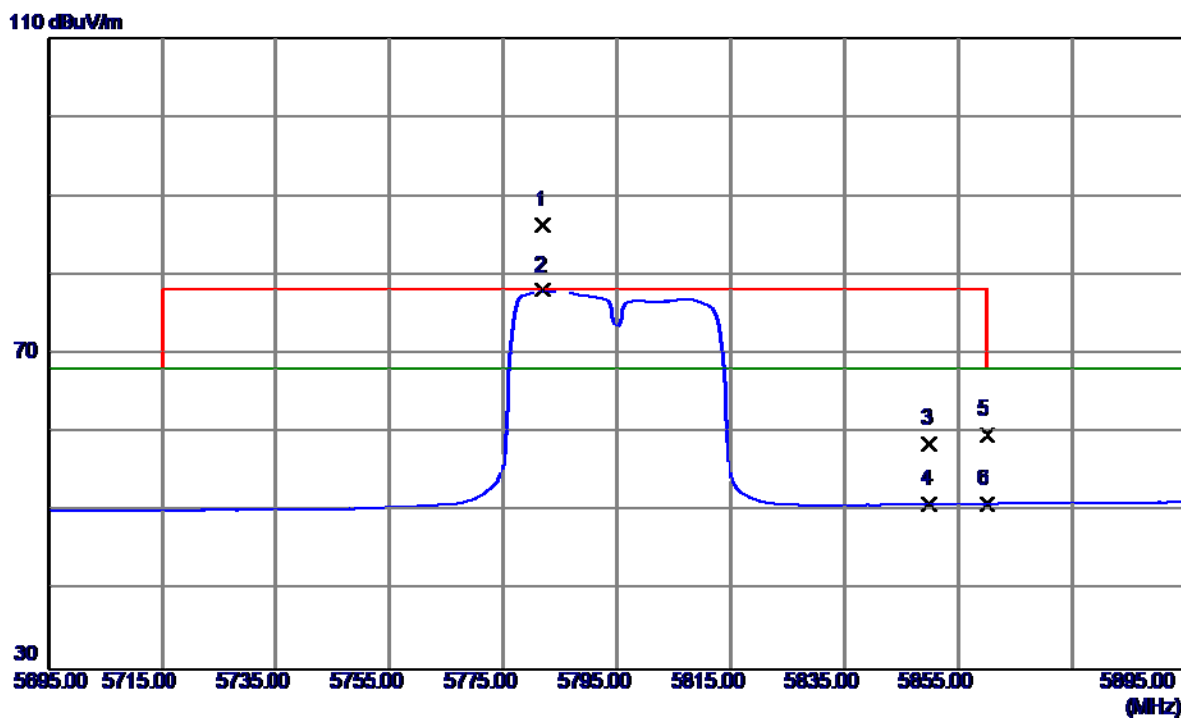


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11589.4000   | 36.40                      | 15.55                   | 51.95                     | 68.30           | -16.35       | Peak     |         |
| 2   | 11590.9000   | 25.71                      | 15.55                   | 41.26                     | 54.00           | -12.74       | AVG      |         |



|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N40 Mode 5795MHz |

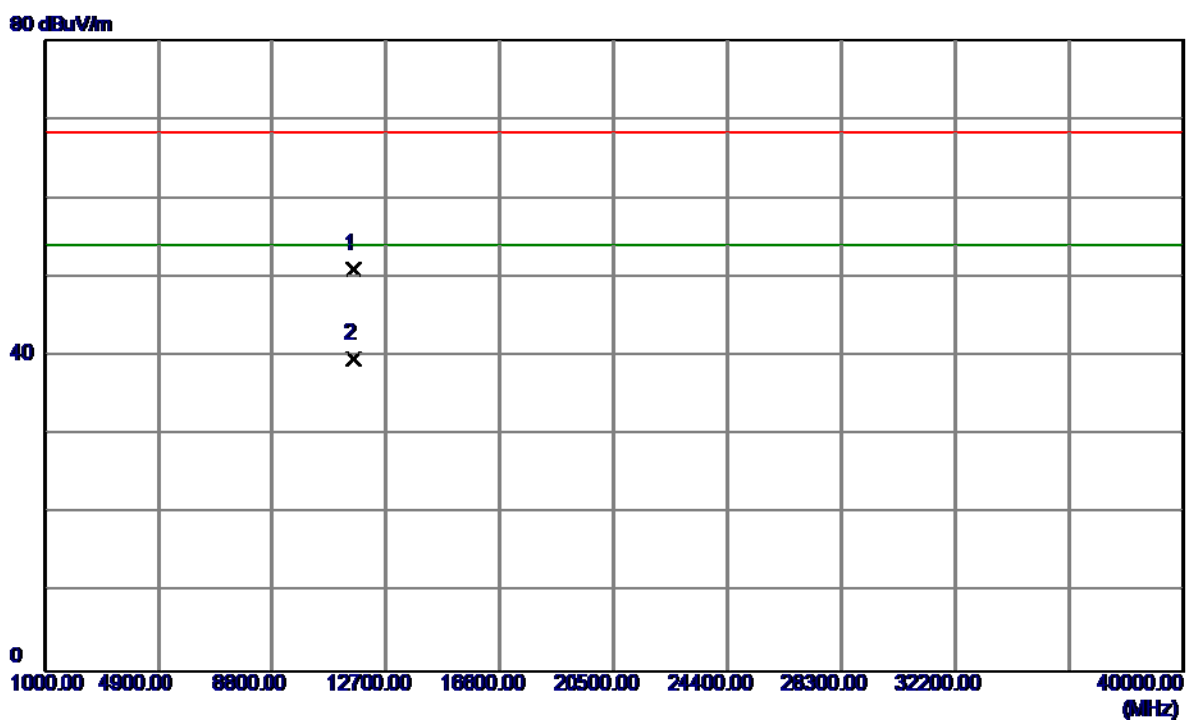
### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 5782.0000    | 45.48                      | 40.88                   | 86.36                     | 78.30           | 8.06         | Peak     | No Limit |
| 2   | 5782.0000    | 37.20                      | 40.88                   | 78.08                     | 68.30           | 9.78         | AVG      | No Limit |
| 3   | 5850.0000    | 17.43                      | 41.23                   | 58.66                     | 78.30           | -19.64       | Peak     |          |
| 4   | 5850.0000    | 9.72                       | 41.23                   | 50.95                     | 68.30           | -17.35       | AVG      |          |
| 5   | 5860.0000    | 18.47                      | 41.28                   | 59.75                     | 78.30           | -18.55       | Peak     |          |
| 6   | 5860.0000    | 9.74                       | 41.28                   | 51.02                     | 68.30           | -17.28       | AVG      |          |

|                  |                            |
|------------------|----------------------------|
| Orthogonal Axis: | X                          |
| Test Mode:       | UNII-3/TX N40 Mode 5795MHz |

### Horizontal



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 11589.4000   | 35.43                      | 15.55                   | 50.98                     | 68.30           | -17.32       | Peak     |         |
| 2   | 11590.5000   | 24.18                      | 15.55                   | 39.73                     | 54.00           | -14.27       | AVG      |         |

## TX A Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHz

Duty cycle =  $T_{ON} / T_{Total}$

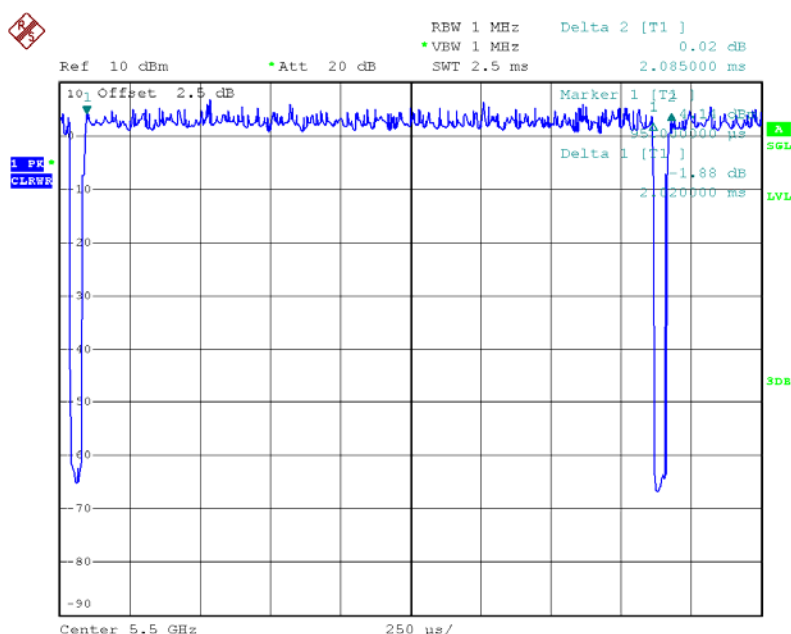
$T_{ON}$ : 2.02 msec

$T_{Total}$ : 2.08 msec

Duty cycle: 97.12%

Duty Factor =  $10 \log(1/\text{Duty cycle})$

Duty Factor = 0.13



Date: 6.JAN.2016 16:52:03

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be calculated as

Output Power = Measured power + Duty factor

Power Spectral Density = Measured density + Duty factor

## TX N20 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHz

Duty cycle =  $T_{ON} / T_{Total}$

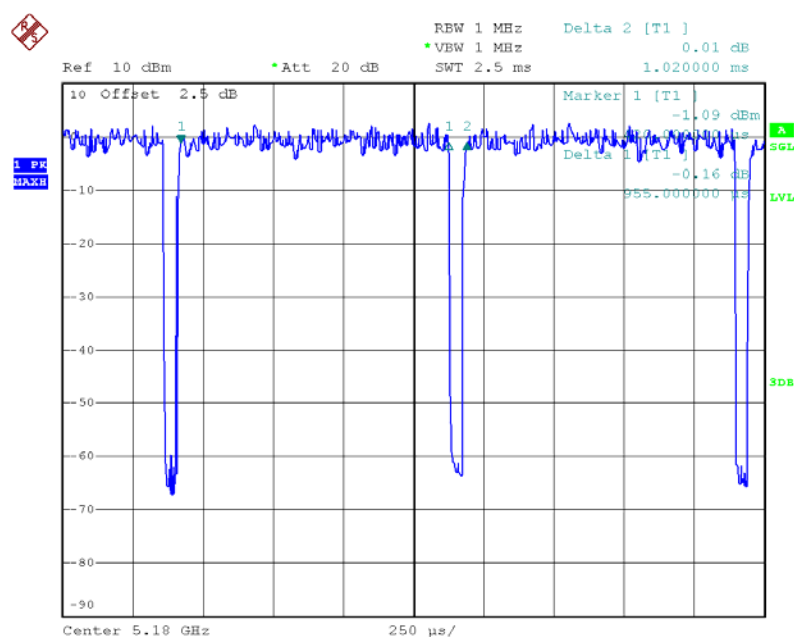
$T_{ON}$ : 0.96 msec

$T_{Total}$ : 1.02 msec

Duty cycle: 94.12%

Duty Factor =  $10 \log(1/\text{Duty cycle})$

Duty Factor = 0.26



Date: 6.JAN.2016 18:40:59

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be caculated as

Output Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

## TX N40 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHz

Duty cycle =  $T_{ON} / T_{Total}$

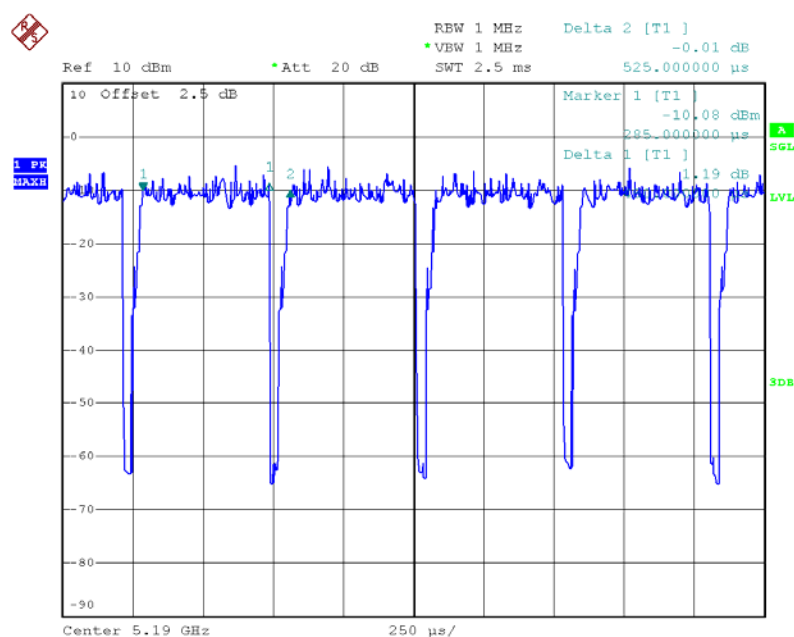
$T_{ON}$ : 0.45 msec

$T_{Total}$ : 0.52 msec

Duty cycle: 86.54%

Duty Factor =  $10 \log(1/\text{Duty cycle})$

Duty Factor = 0.63



Date: 6.JAN.2016 19:25:40

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be calculated as

Output Power = Measured power + Duty factor

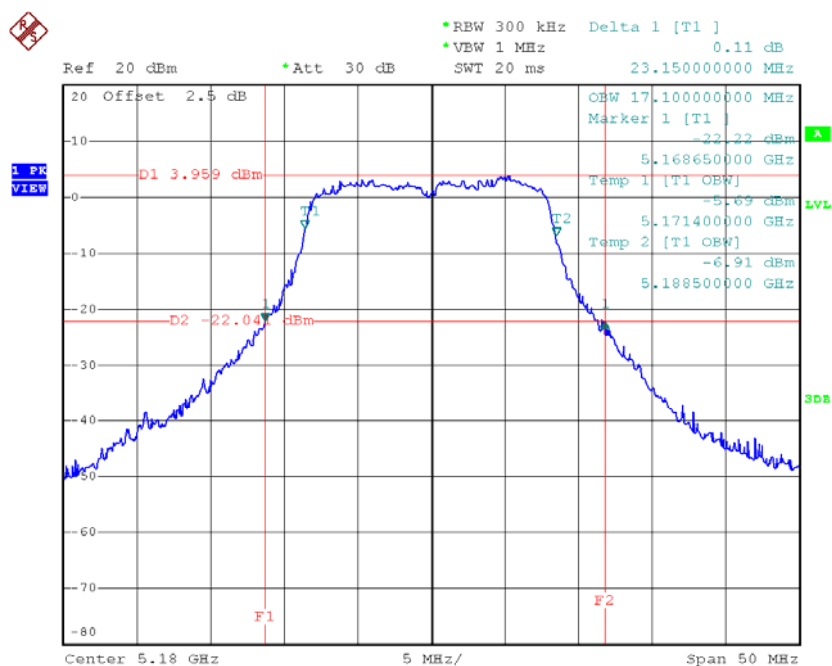
Power Spectral Density = Measured density + Duty factor

## **ATTACHMENT E - BANDWIDTH**

Test Mode: UNII-1/TX A Mode\_CH36/CH40/CH48

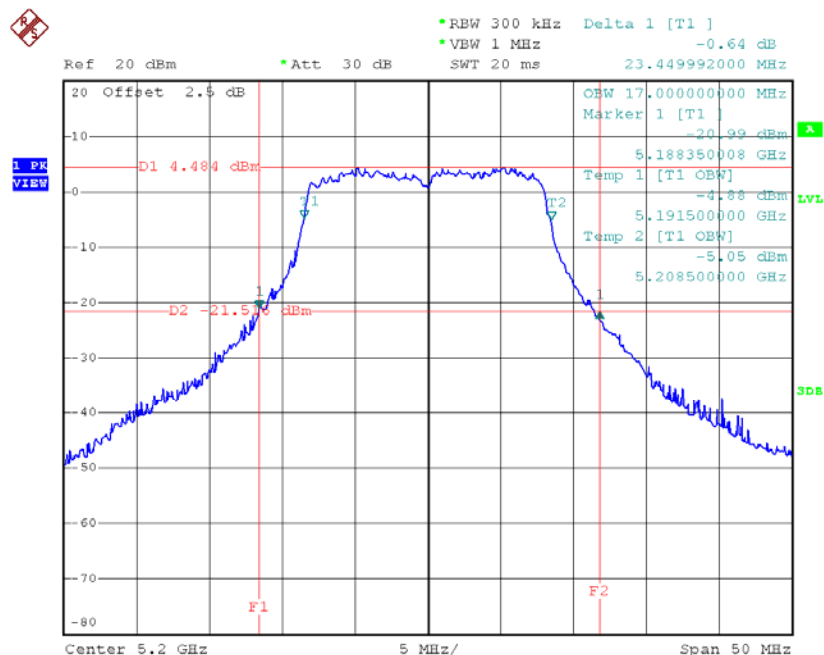
| Channel | Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 99% Occupied Bandwidth<br>(MHz) |
|---------|--------------------|-------------------------|---------------------------------|
| CH36    | 5180               | 23.15                   | 17.10                           |
| CH40    | 5200               | 23.45                   | 17.00                           |
| CH48    | 5240               | 22.79                   | 17.10                           |

TX CH36



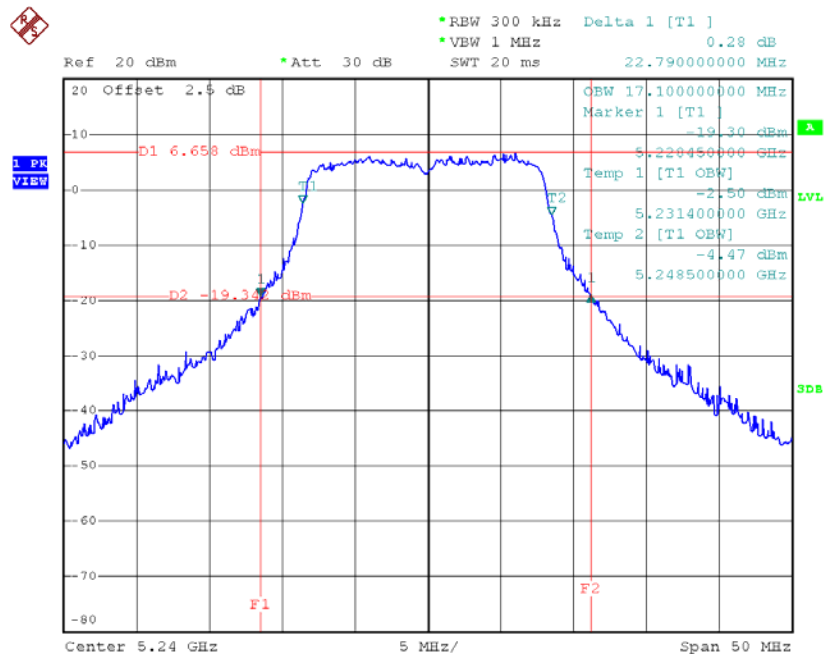
Date: 6.JAN.2016 16:27:55

# TX CH40



Date: 6.JAN.2016 16:34:19

# TX CH48



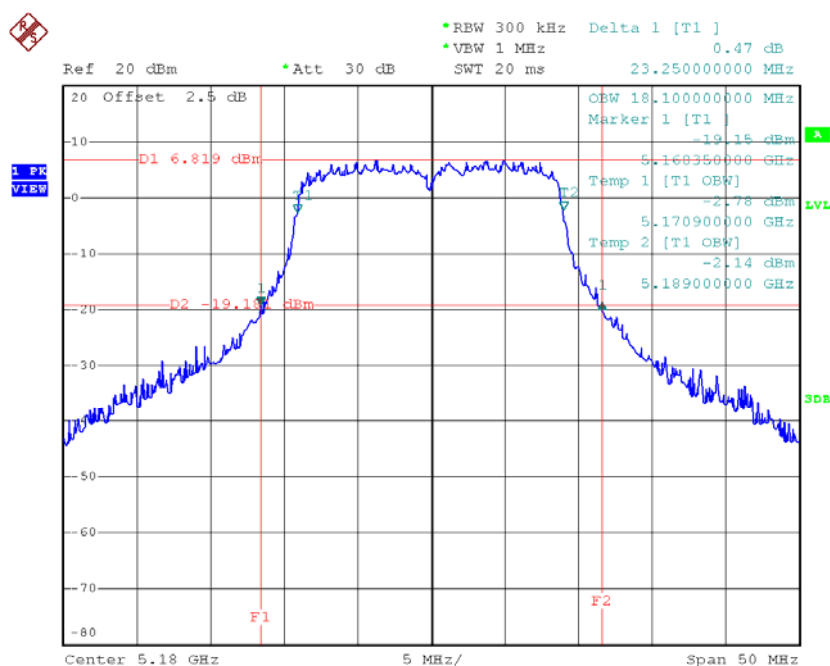
Date: 6.JAN.2016 16:35:29



**Test Mode: UNII-1/TX N20 Mode\_CH36/CH40/CH48**

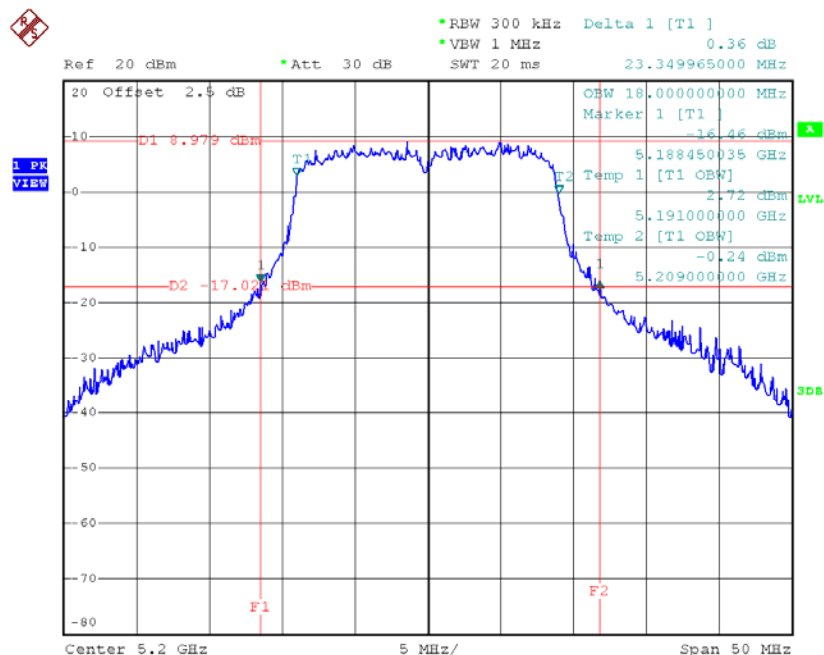
| Channel | Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 99% Occupied Bandwidth<br>(MHz) |
|---------|--------------------|-------------------------|---------------------------------|
| CH36    | 5180               | 23.25                   | 18.10                           |
| CH40    | 5200               | 23.35                   | 18.00                           |
| CH48    | 5240               | 24.10                   | 18.10                           |

**TX CH36**



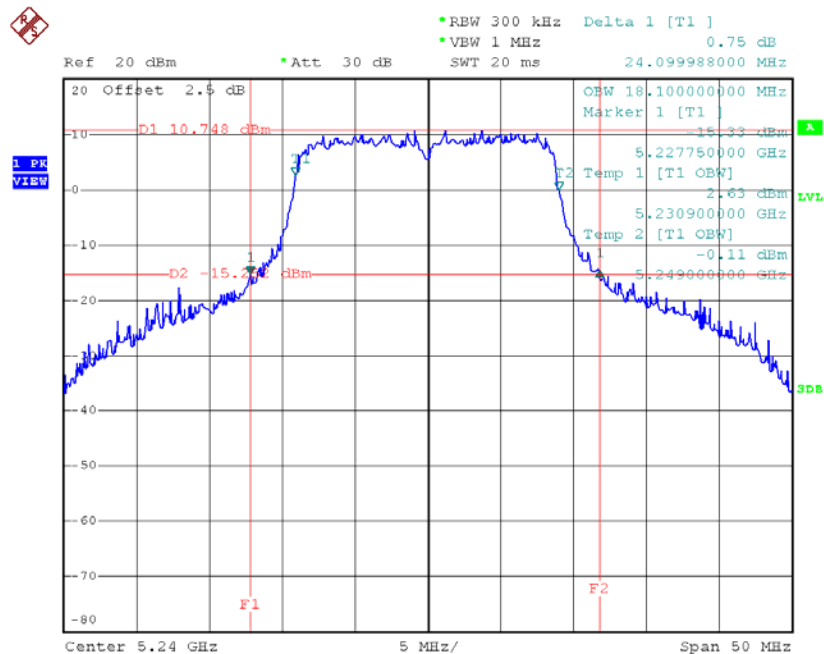
Date: 6.JAN.2016 17:02:29

# TX CH40



Date: 6.JAN.2016 17:04:08

# TX CH48

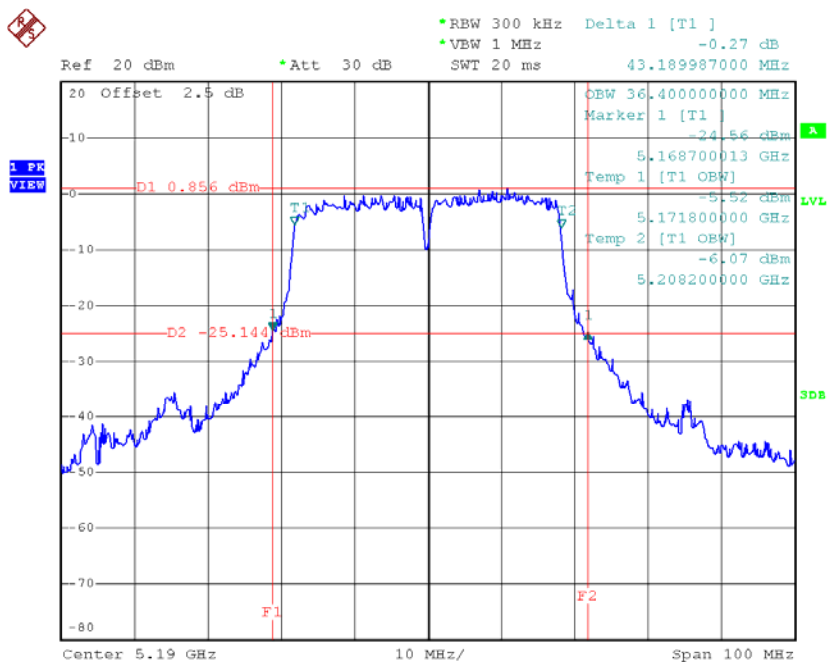


Date: 6.JAN.2016 17:05:21

**Test Mode: UNII-1/TX N40 Mode\_CH38/CH46**

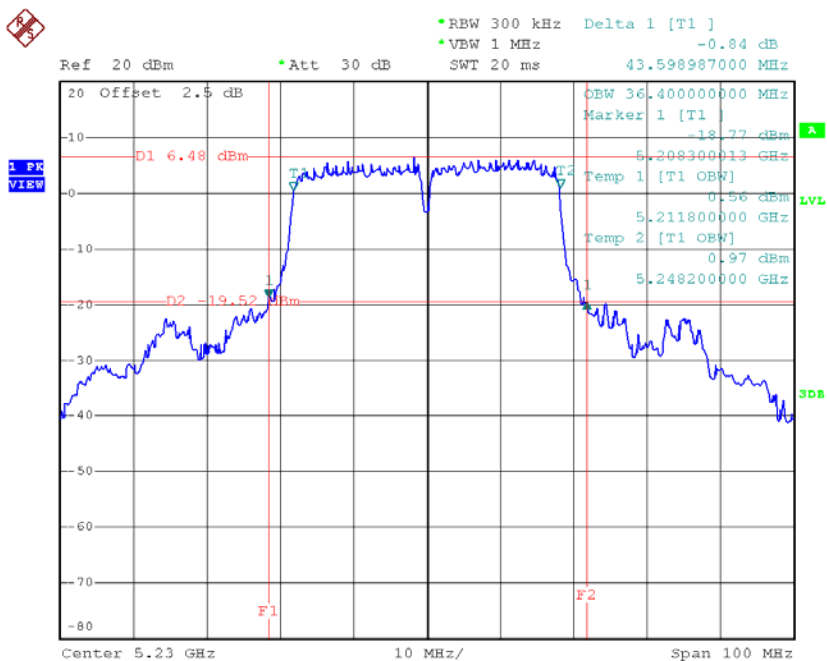
| Channel | Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 99% Occupied Bandwidth<br>(MHz) |
|---------|--------------------|-------------------------|---------------------------------|
| CH38    | 5190               | 43.19                   | 36.40                           |
| CH46    | 5230               | 43.60                   | 36.40                           |

# TX CH38



Date: 6.JAN.2016 17:29:19

# TX CH46

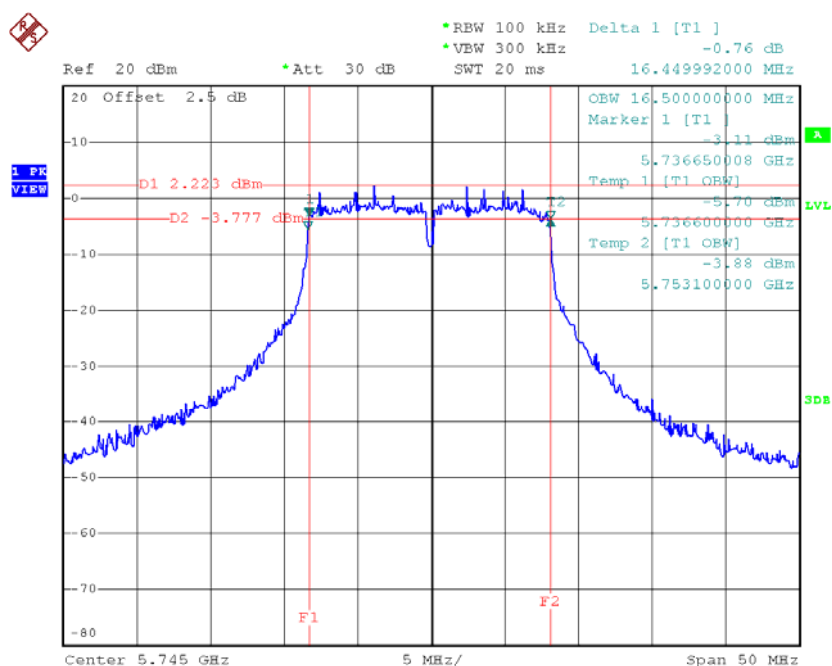


Date: 6.JAN.2016 17:31:49

**Test Mode: UNII-3/ TX A Mode\_CH149/CH157/CH165**

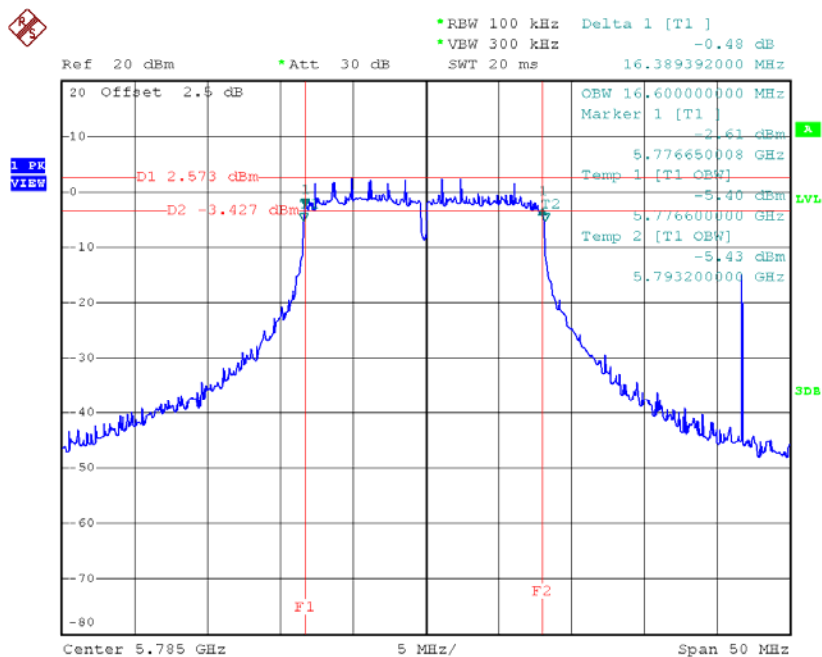
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Limit (kHz) |
|---------|-----------------|---------------------|------------------------------|-------------|
| CH149   | 5745            | 16.45               | 16.50                        | >=500       |
| CH157   | 5785            | 16.39               | 16.60                        | >=500       |
| CH165   | 5825            | 16.45               | 16.50                        | >=500       |

**TX CH 149**



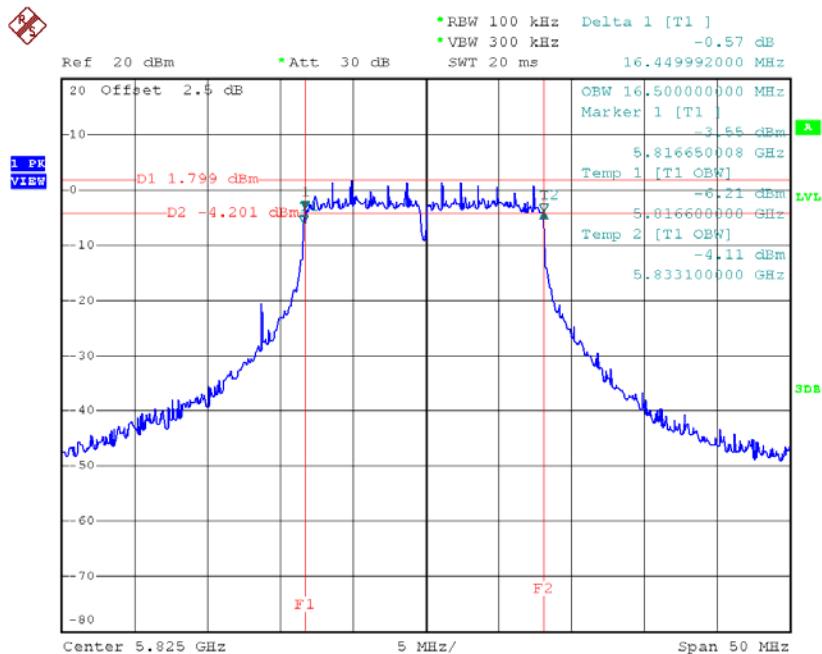
Date: 6.JAN.2016 16:57:02

### TX CH 157



Date: 6.JAN.2016 16:58:26

### TX CH 165

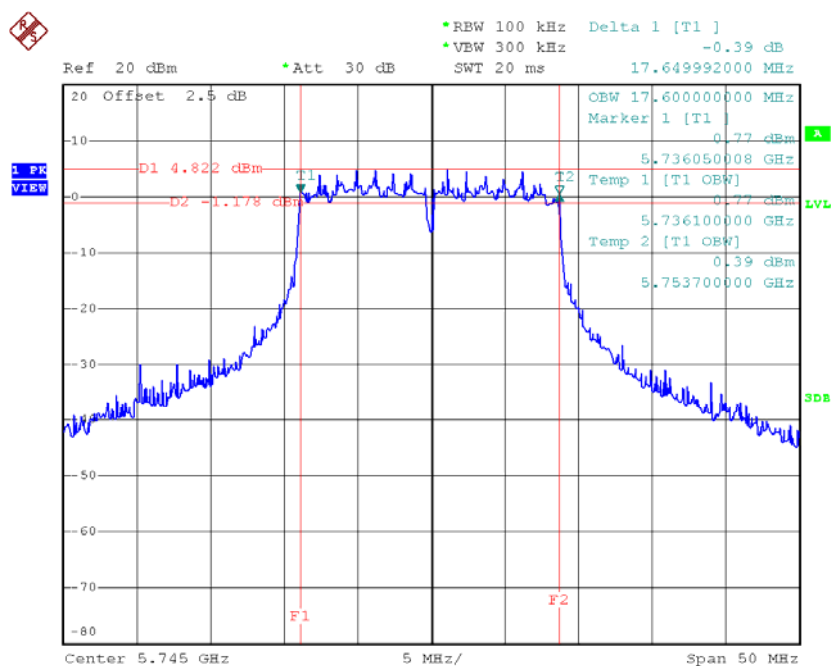


Date: 6.JAN.2016 17:00:08

**Test Mode: UNII-3/ TX N20 Mode\_CH149/CH157/CH165**

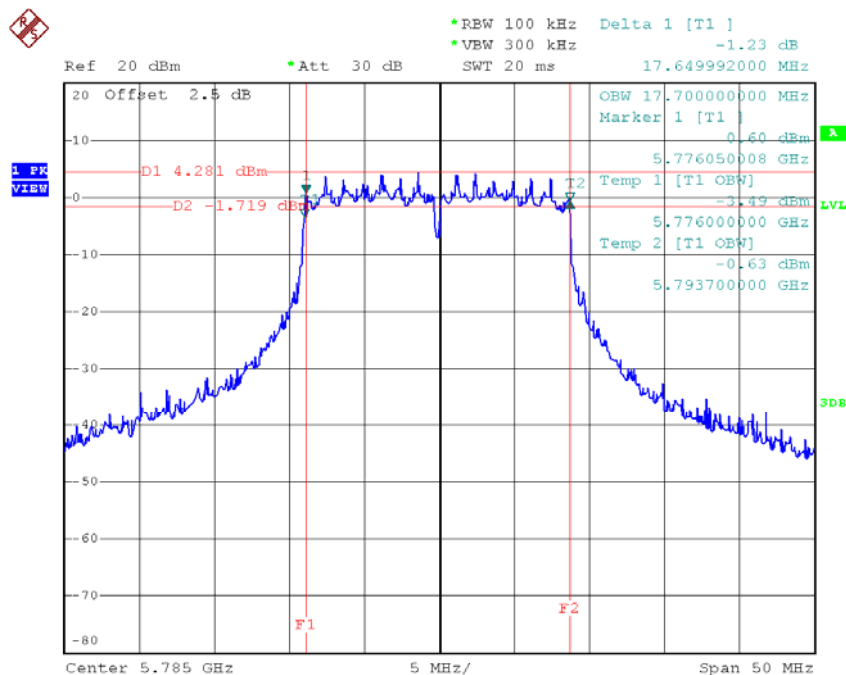
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Limit (kHz) |
|---------|-----------------|---------------------|------------------------------|-------------|
| CH149   | 5745            | 17.65               | 17.60                        | >=500       |
| CH157   | 5785            | 17.65               | 17.70                        | >=500       |
| CH165   | 5825            | 17.65               | 17.70                        | >=500       |

**TX CH 149**



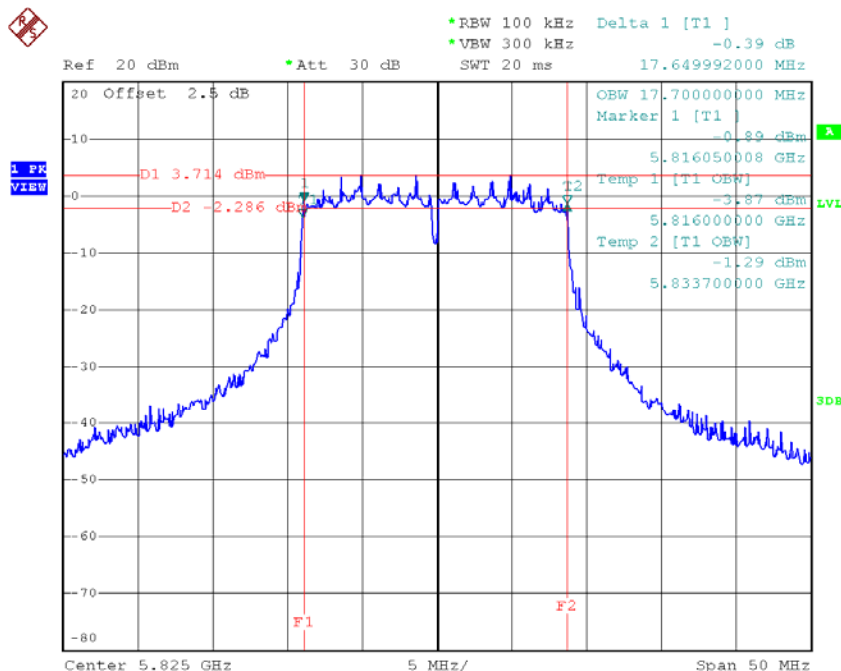
Date: 6.JAN.2016 17:21:01

# TX CH 157



Date: 6.JAN.2016 17:22:37

# TX CH 165



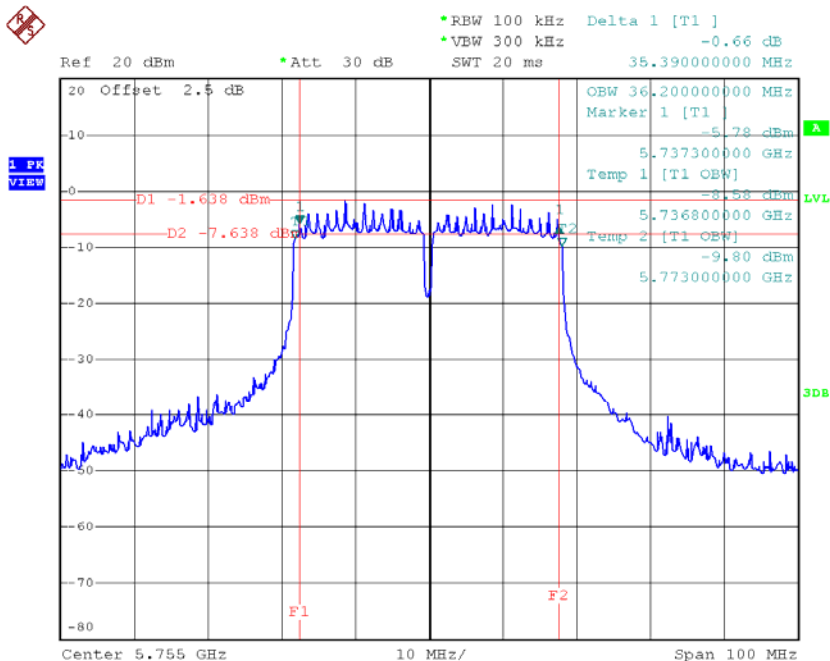
Date: 6.JAN.2016 17:24:05



**Test Mode: UNII-3/ TX N40 Mode\_CH151/CH159**

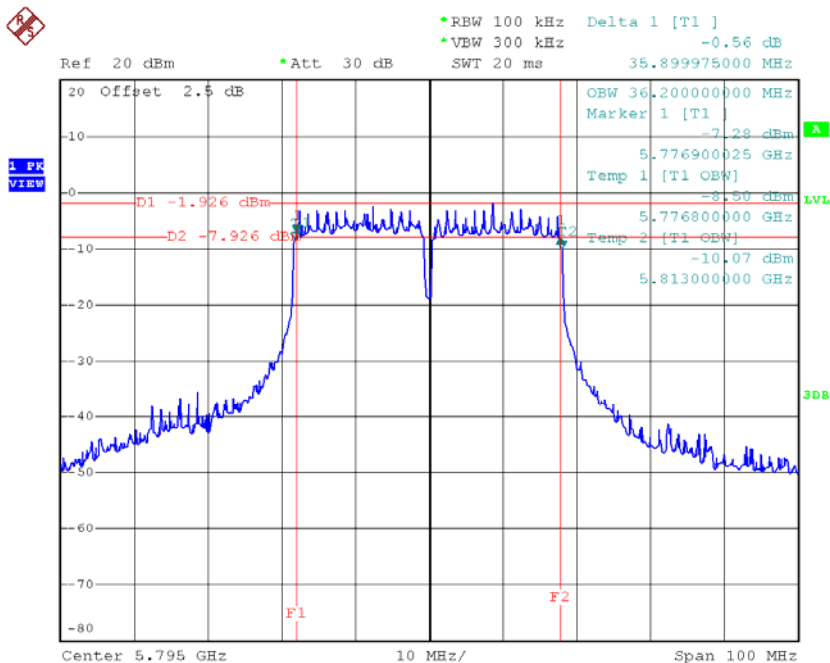
| Channel | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | 99% Occupied Bandwidth<br>(MHz) | Limit<br>(kHz) |
|---------|--------------------|------------------------|---------------------------------|----------------|
| CH151   | 5755               | 35.39                  | 36.20                           | >=500          |
| CH159   | 5795               | 35.90                  | 36.20                           | >=500          |

# TX CH 151



Date: 6.JAN.2016 18:13:31

# TX CH 159



Date: 6.JAN.2016 18:24:47

## **ATTACHMENT F - MAXIMUM OUTPUT POWER**

**Test Mode: UNII-1/TX A Mode**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH36    | 5180            | 13.66              | 0.13              | 13.79                            | 24.00       | 0.25         |
| CH40    | 5200            | 13.64              | 0.13              | 13.77                            | 24.00       | 0.25         |
| CH48    | 5240            | 13.71              | 0.13              | 13.84                            | 24.00       | 0.25         |

**Test Mode: UNII-1/TX N20 Mode\_ANT 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH36    | 5180            | 11.76              | 0.26              | 12.02                            | 24.00       | 0.25         |
| CH40    | 5200            | 11.51              | 0.26              | 11.77                            | 24.00       | 0.25         |
| CH48    | 5240            | 11.69              | 0.26              | 11.95                            | 24.00       | 0.25         |

**Test Mode: UNII-1/TX N20 Mode\_ANT 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH36    | 5180            | 7.48               | 0.26              | 7.74                             | 24.00       | 0.25         |
| CH40    | 5200            | 7.87               | 0.26              | 8.13                             | 24.00       | 0.25         |
| CH48    | 5240            | 7.76               | 0.26              | 8.02                             | 24.00       | 0.25         |

**Test Mode: UNII-1/TX N20 Mode\_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------|--------------|
| CH36    | 5180            | 13.40              | 24.00       | 0.25         |
| CH40    | 5200            | 13.33              | 24.00       | 0.25         |
| CH48    | 5240            | 13.42              | 24.00       | 0.25         |

**Test Mode: UNII-1/TX N40 Mode\_ANT 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH38    | 5190            | 10.72              | 0.63              | 11.35                            | 24.00       | 0.25         |
| CH46    | 5230            | 10.64              | 0.63              | 11.27                            | 24.00       | 0.25         |

**Test Mode: UNII-1/TX N40 Mode\_ANT 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH38    | 5190            | 6.46               | 0.63              | 7.09                             | 24.00       | 0.25         |
| CH46    | 5230            | 7.05               | 0.63              | 7.68                             | 24.00       | 0.25         |

**Test Mode: UNII-1/TX N40 Mode\_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------|--------------|
| CH38    | 5190            | 12.73              | 24.00       | 0.25         |
| CH46    | 5230            | 12.85              | 24.00       | 0.25         |

**Test Mode: UNII-3/ TX A Mode**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH149   | 5745            | 13.91              | 0.13              | 14.04                            | 30.00       | 1.00         |
| CH157   | 5785            | 13.96              | 0.13              | 14.09                            | 30.00       | 1.00         |
| CH165   | 5825            | 13.69              | 0.13              | 13.82                            | 30.00       | 1.00         |

**Test Mode: UNII-3/TX N20 Mode\_ANT 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH149   | 5745            | 11.67              | 0.26              | 11.93                            | 30.00       | 1.00         |
| CH157   | 5785            | 11.74              | 0.26              | 12.00                            | 30.00       | 1.00         |
| CH165   | 5825            | 11.67              | 0.26              | 11.93                            | 30.00       | 1.00         |

**Test Mode: UNII-3/TX N20 Mode\_ANT 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH149   | 5745            | 6.65               | 0.26              | 6.91                             | 30.00       | 1.00         |
| CH157   | 5785            | 8.56               | 0.26              | 8.82                             | 30.00       | 1.00         |
| CH165   | 5825            | 9.36               | 0.26              | 9.62                             | 30.00       | 1.00         |

**Test Mode: UNII-3/TX N20 Mode\_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------|--------------|
| CH149   | 5745            | 13.12              | 30.00       | 1.00         |
| CH157   | 5785            | 13.70              | 30.00       | 1.00         |
| CH165   | 5825            | 13.93              | 30.00       | 1.00         |

**Test Mode: UNII-3/ TX N40 Mode\_ANT 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH151   | 5755            | 10.92              | 0.63              | 11.55                            | 30.00       | 1.00         |
| CH159   | 5795            | 10.52              | 0.63              | 11.15                            | 30.00       | 1.00         |

**Test Mode: UNII-3/ TX N40 Mode\_ANT 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor (dBm) | Output Power + Duty Factor (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------------|----------------------------------|-------------|--------------|
| CH151   | 5755            | 7.04               | 0.63              | 7.67                             | 30.00       | 1.00         |
| CH159   | 5795            | 8.01               | 0.63              | 8.64                             | 30.00       | 1.00         |

**Test Mode: UNII-3/ TX N40 Mode\_Total**

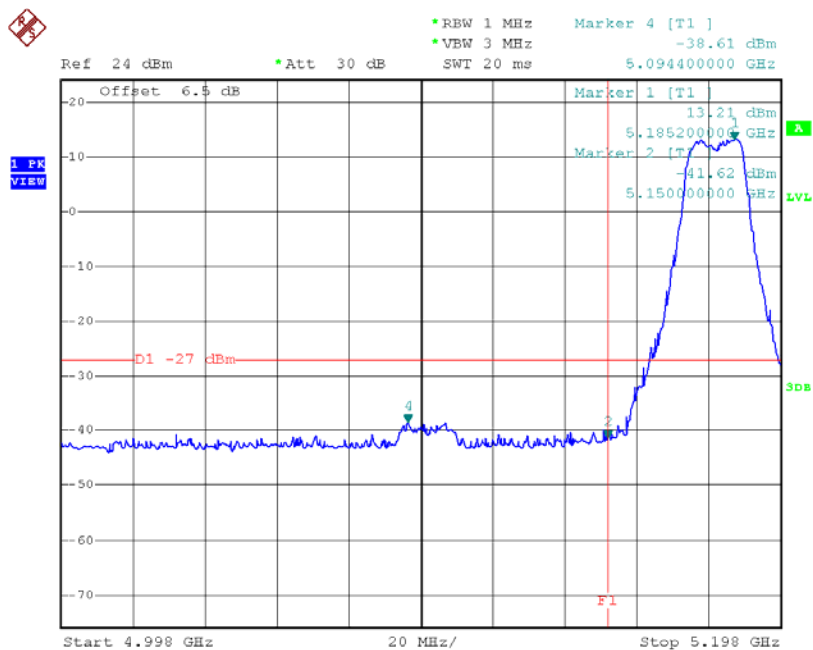
| Channel | Frequency (MHz) | Output Power (dBm) | Limit (dBm) | Limit (Watt) |
|---------|-----------------|--------------------|-------------|--------------|
| CH151   | 5755            | 13.04              | 30.00       | 1.00         |
| CH159   | 5795            | 13.08              | 30.00       | 1.00         |

## **ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION**



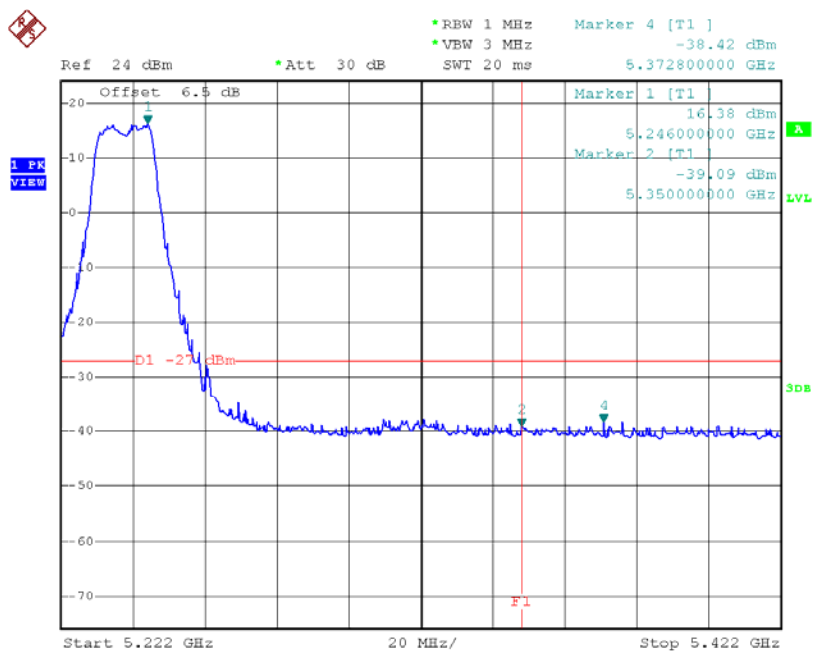
Test Mode: UNII-1/TX A Mode

### TX mode CH36



Date: 6.JAN.2016 16:28:13

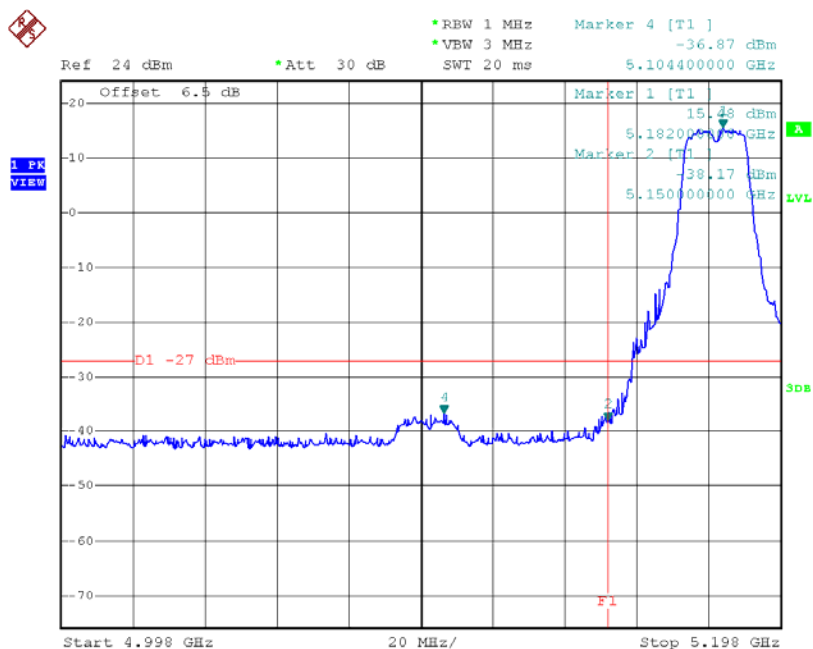
### TX mode CH48



Date: 6.JAN.2016 16:35:46

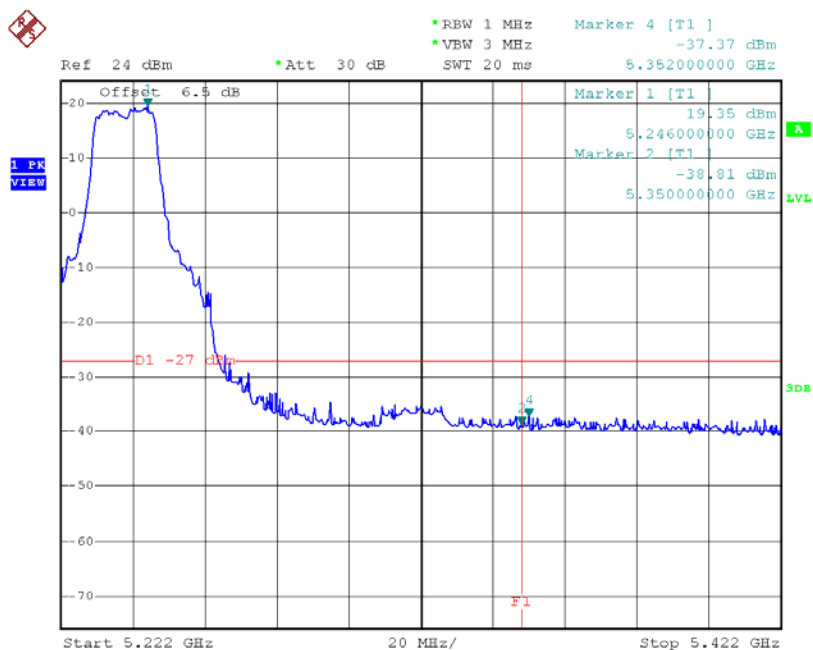
Test Mode: UNII-1/TX N20 Mode\_ANT 1

### TX mode CH36



Date: 6.JAN.2016 17:02:46

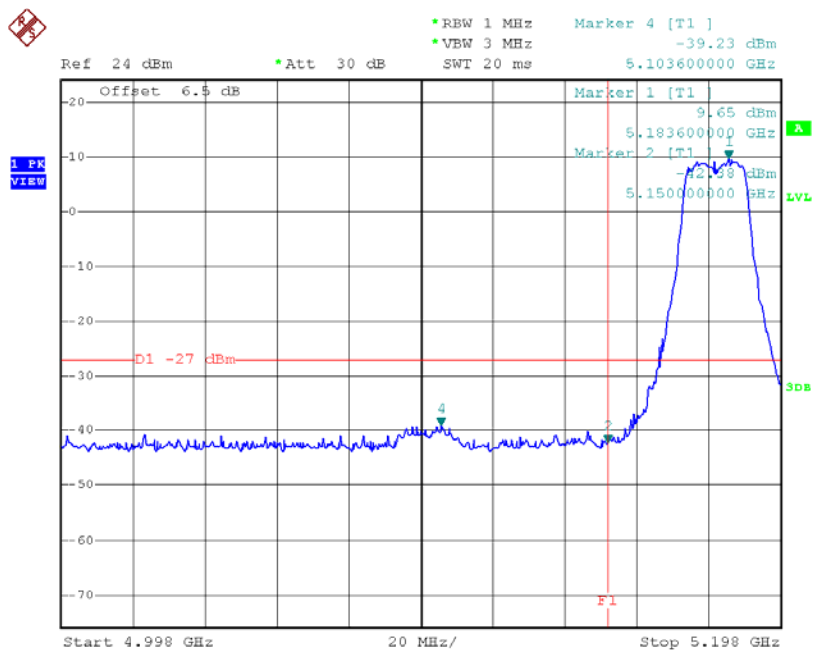
### TX mode CH48



Date: 6.JAN.2016 17:05:38

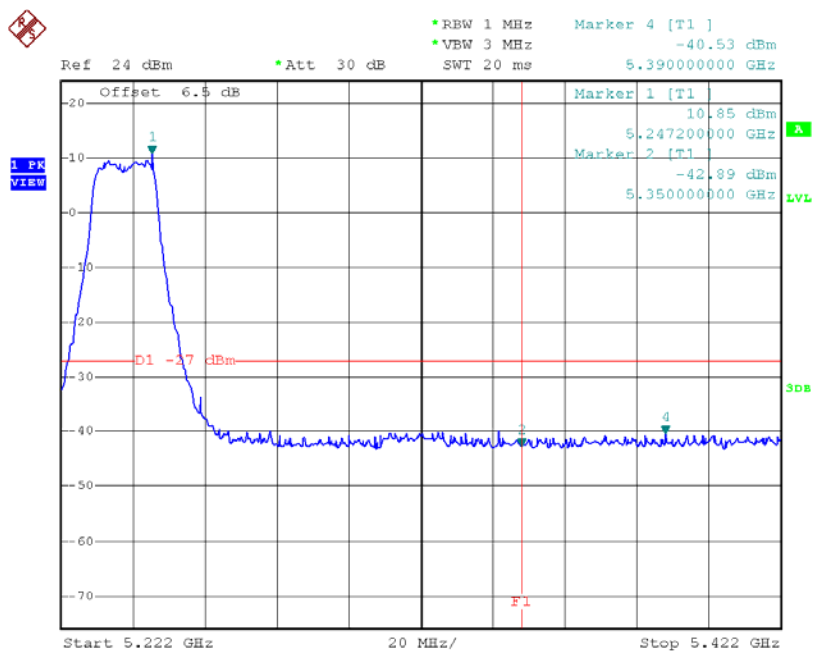
Test Mode: UNII-1/TX N20 Mode\_ANT 2

### TX mode CH36



Date: 6.JAN.2016 18:40:54

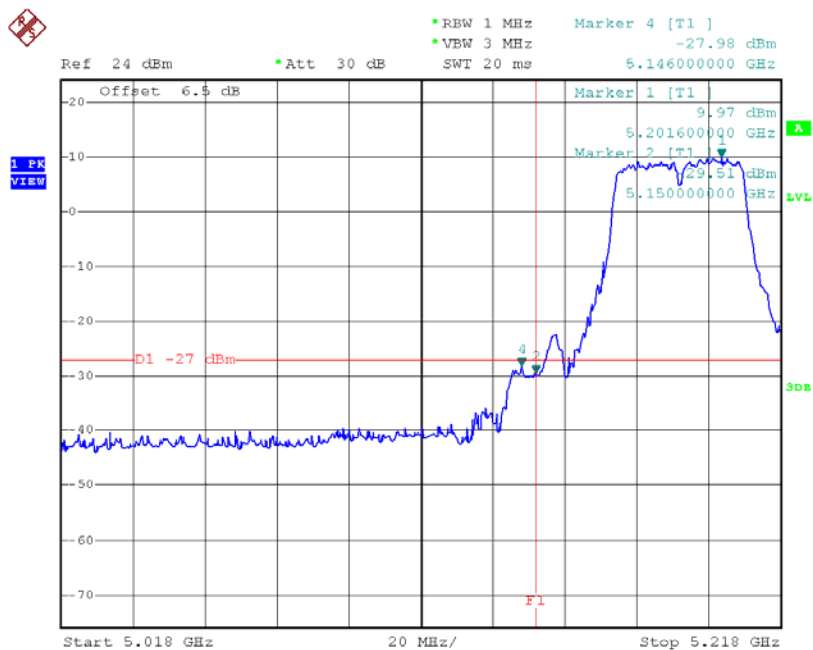
### TX mode CH48



Date: 6.JAN.2016 18:43:29

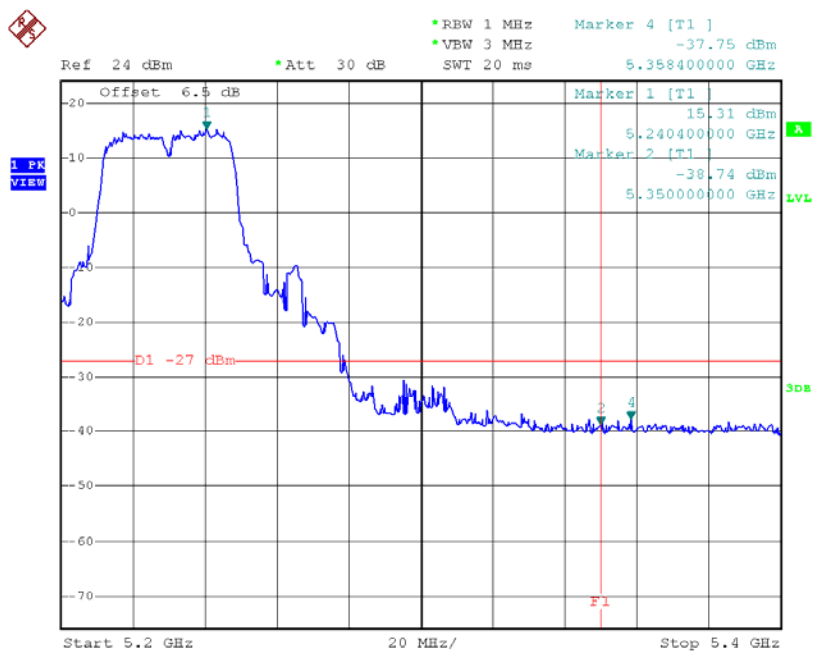
Test Mode: UNII-1/TX N40 Mode\_ANT 1

### TX mode CH38



Date: 6.JAN.2016 17:28:03

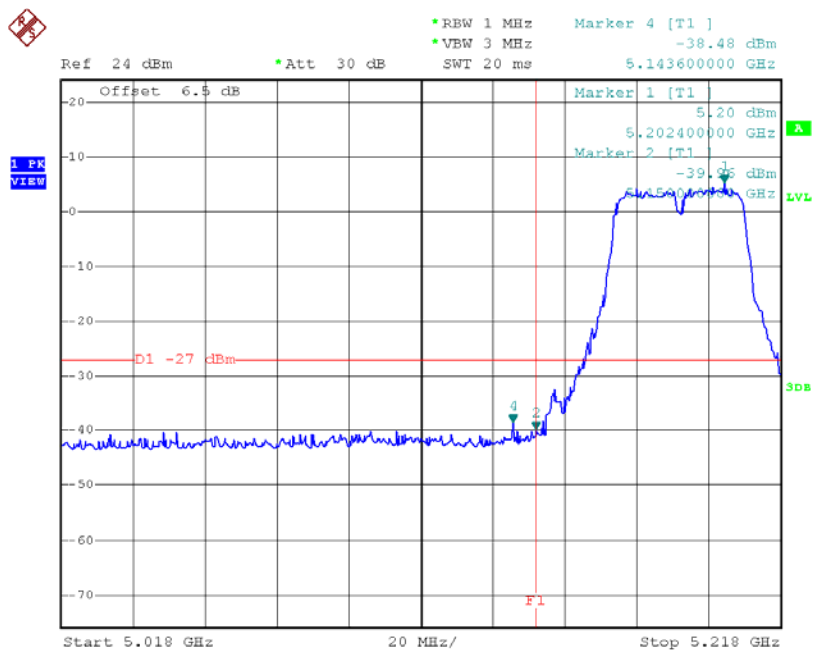
### TX mode CH46



Date: 6.JAN.2016 17:32:06

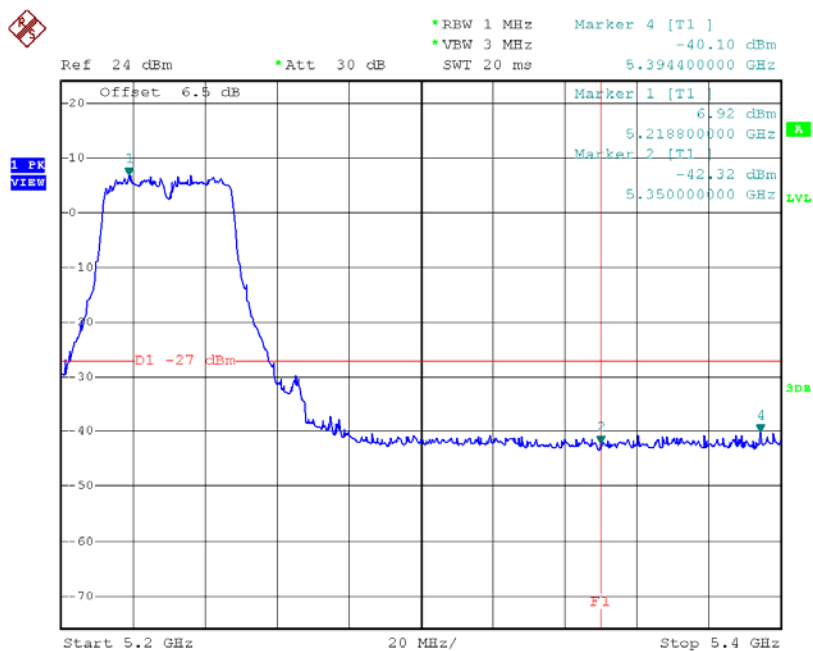
Test Mode: UNII-1/TX N40 Mode\_ANT 2

### TX mode CH38



Date: 6.JAN.2016 19:25:35

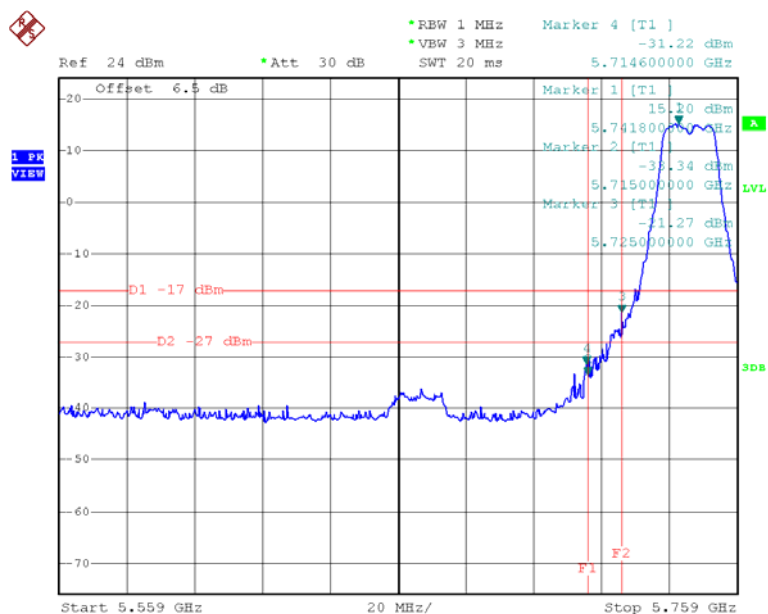
### TX mode CH46



Date: 6.JAN.2016 19:27:28

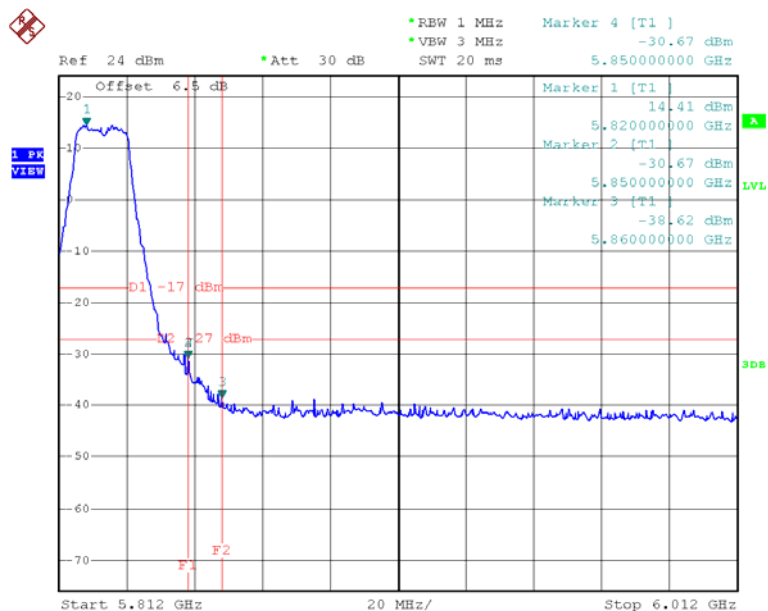
Test Mode: UNII-3/TX A Mode

### TX A Mode CH149



Date: 6.JAN.2016 16:57:10

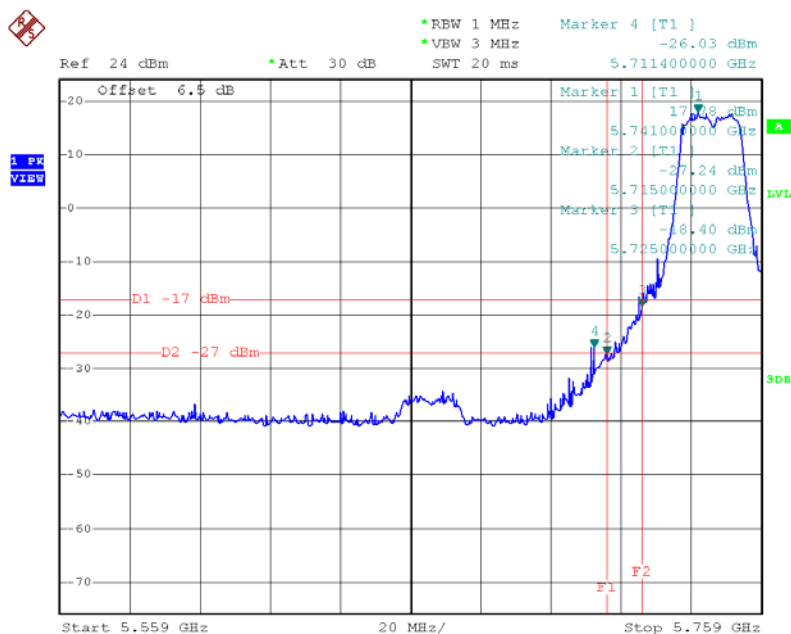
### TX A Mode CH165



Date: 6.JAN.2016 17:00:26

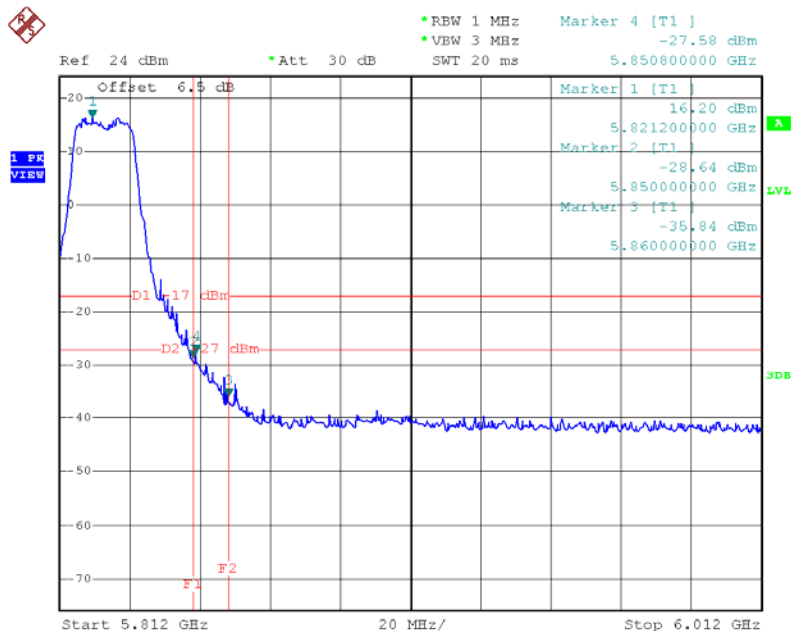
Test Mode: UNII-3/TX N20 Mode\_ANT 1

### TX HT20 mode CH149



Date: 6.JAN.2016 17:21:25

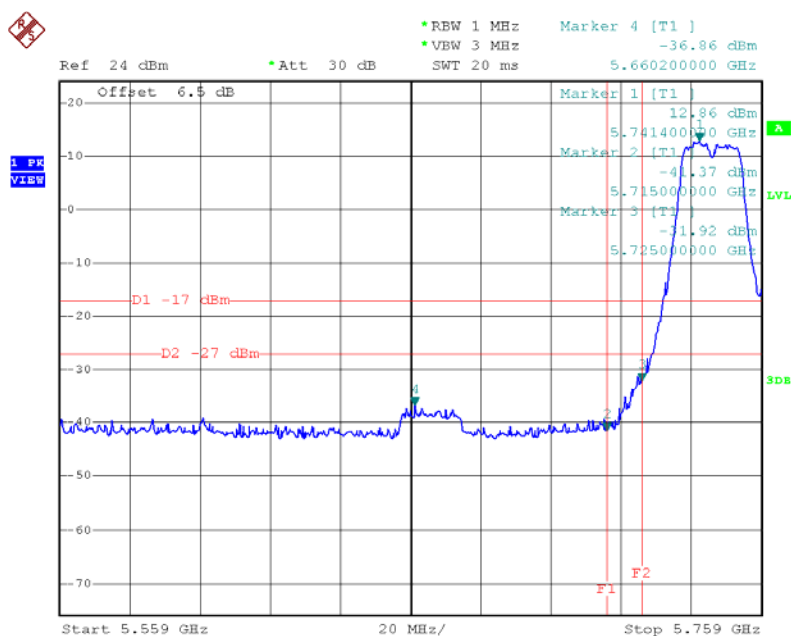
### TX HT20 mode CH165



Date: 6.JAN.2016 17:24:22

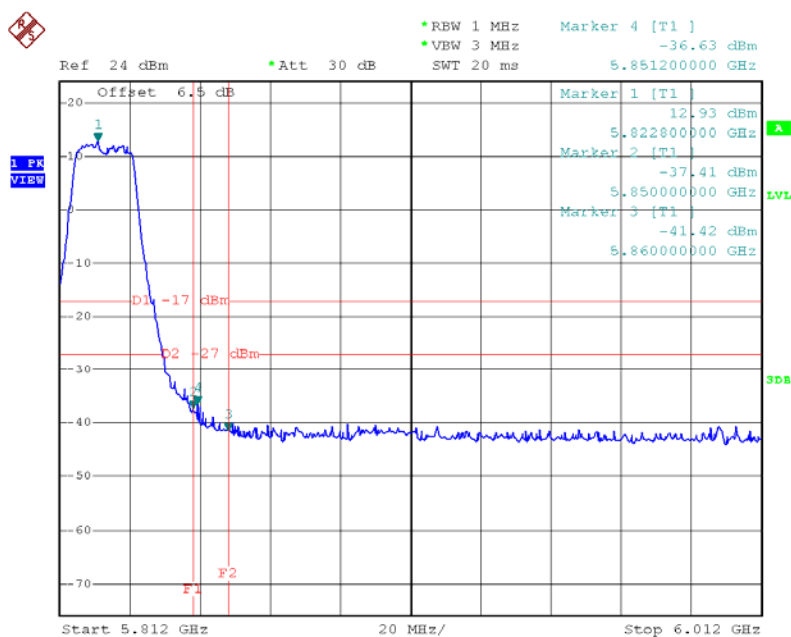
Test Mode: UNII-3/TX N20 Mode\_ANT 2

### TX HT20 mode CH149



Date: 6.JAN.2016 19:19:22

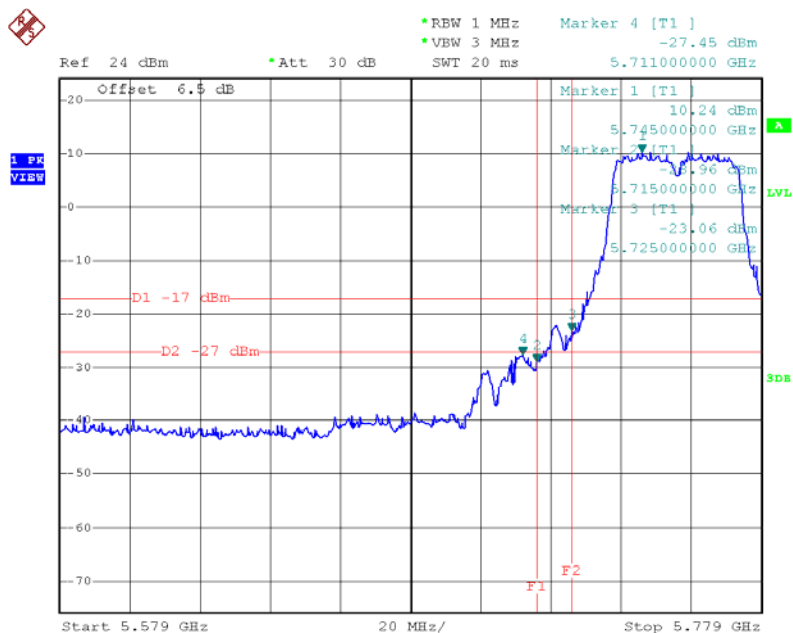
### X HT20 mode CH165





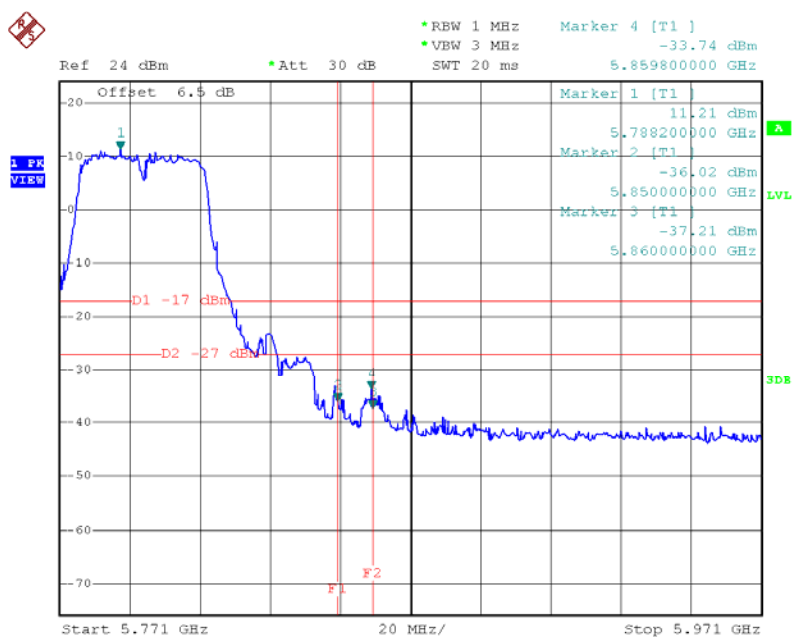
|            |                          |
|------------|--------------------------|
| Test Mode: | UNII-3/TX N40 Mode_ANT 1 |
|------------|--------------------------|

### UNII-3/TX HT40 mode CH151



Date: 6.JAN.2016 18:12:23

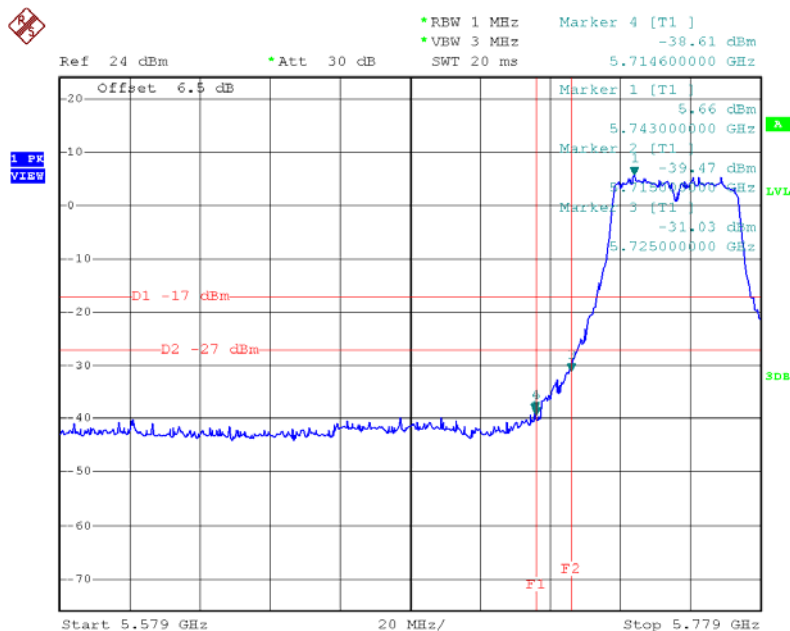
### UNII-3/TX HT40 mode CH159



Date: 6.JAN.2016 18:23:17

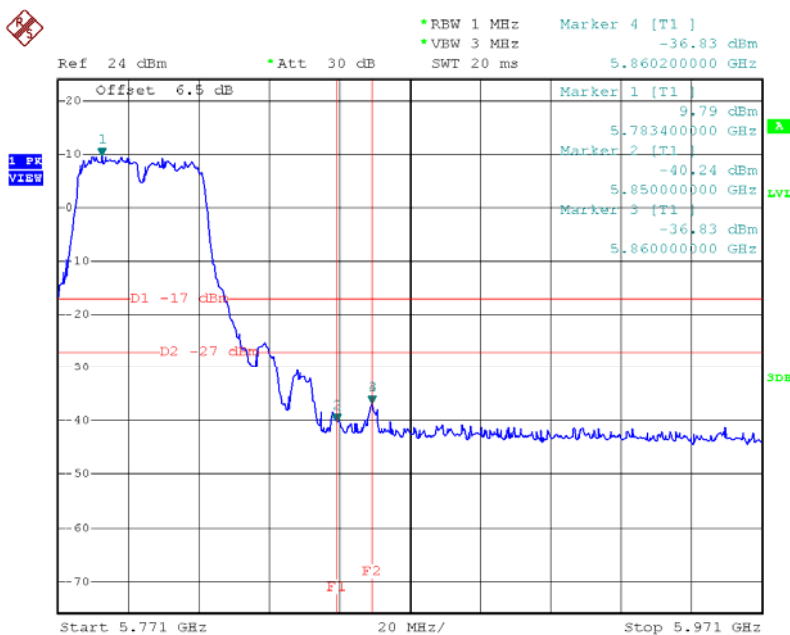
Test Mode: UNII-3/TX N40 Mode\_ANT 2

### TX HT40 mode CH151



Date: 6.JAN.2016 19:37:38

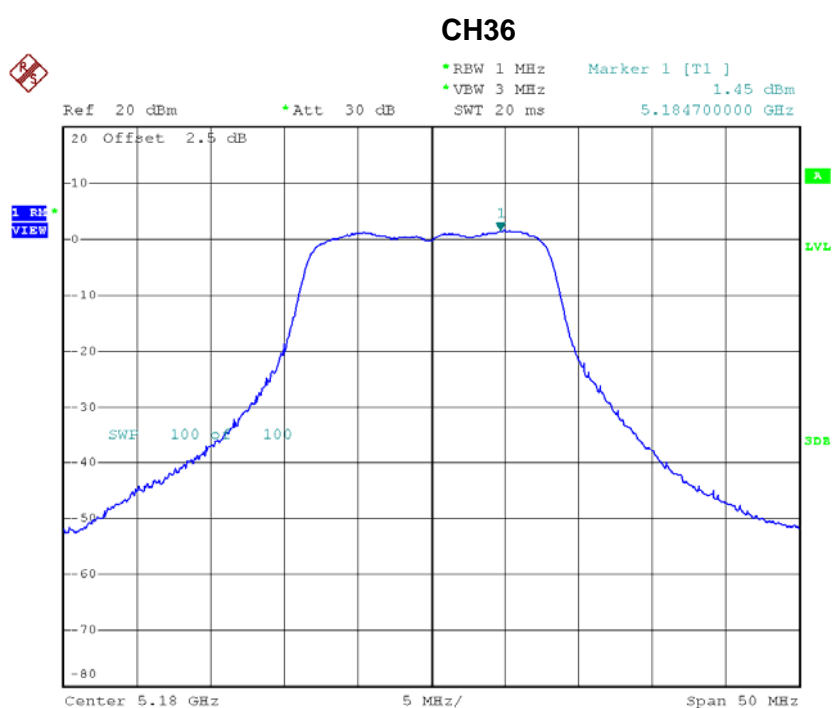
### HT40 mode CH159



## **ATTACHMENT H - POWER SPECTRAL DENSITY**

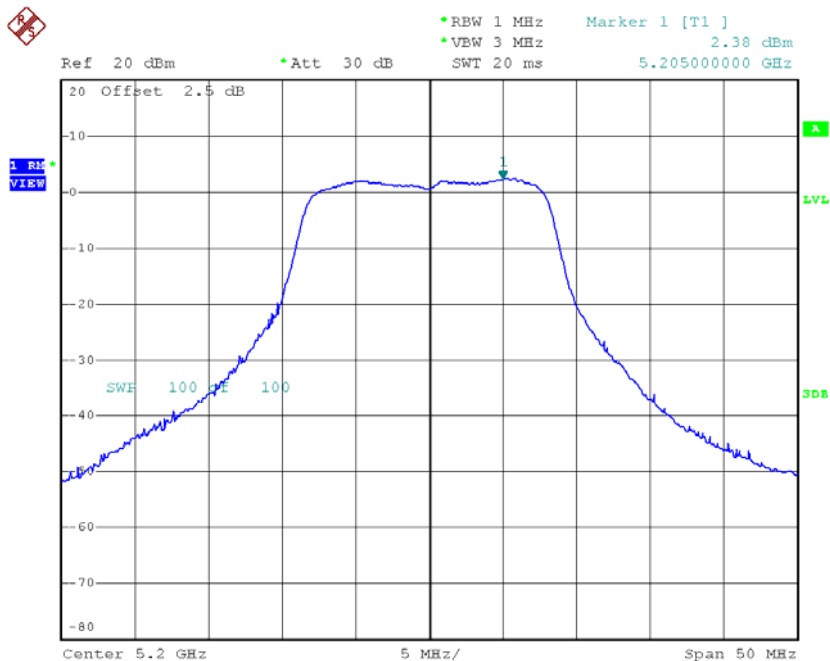
**Test Mode: UNII-1/ TX A Mode\_CH36/CH40/CH48**

| Channel | Frequency (MHz) | Power Density (dBm/MHz) | Duty Factor (dBm/MHz) | Power Density + Duty Factor (dBm/MHz) | Limit (dBm/MHz) |
|---------|-----------------|-------------------------|-----------------------|---------------------------------------|-----------------|
| CH36    | 5180            | 1.45                    | 0.13                  | 1.58                                  | 11.00           |
| CH40    | 5200            | 2.38                    | 0.13                  | 2.51                                  | 11.00           |
| CH48    | 5240            | 4.40                    | 0.13                  | 4.53                                  | 11.00           |



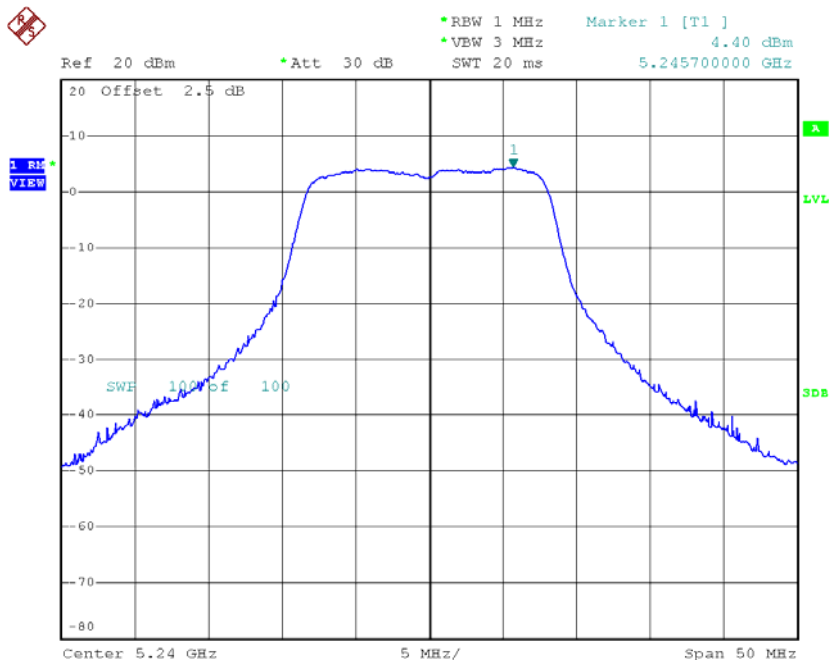
Date: 6.JAN.2016 16:28:05

# CH40



Date: 6.JAN.2016 16:34:29

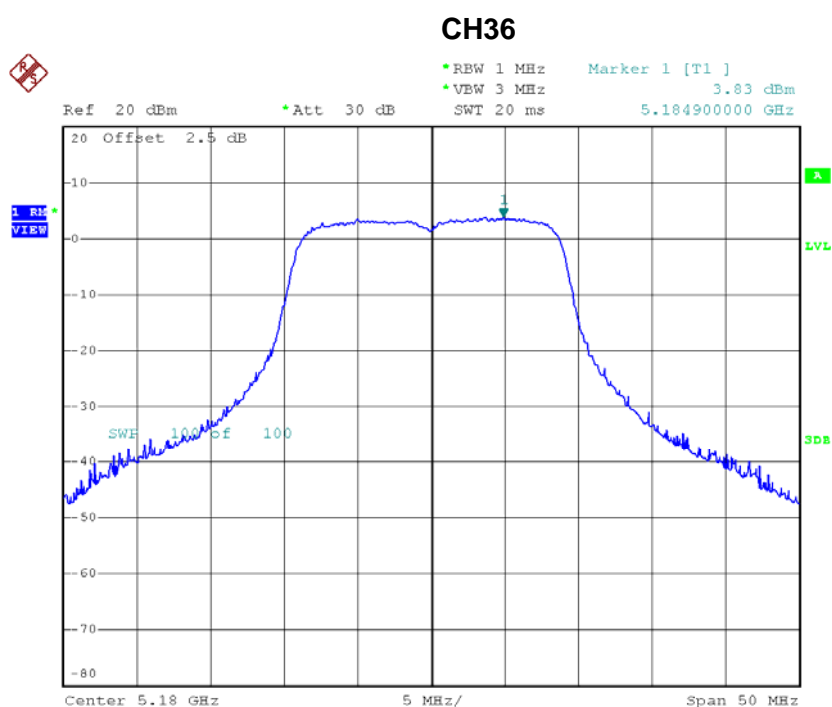
# CH48



Date: 6.JAN.2016 16:35:38

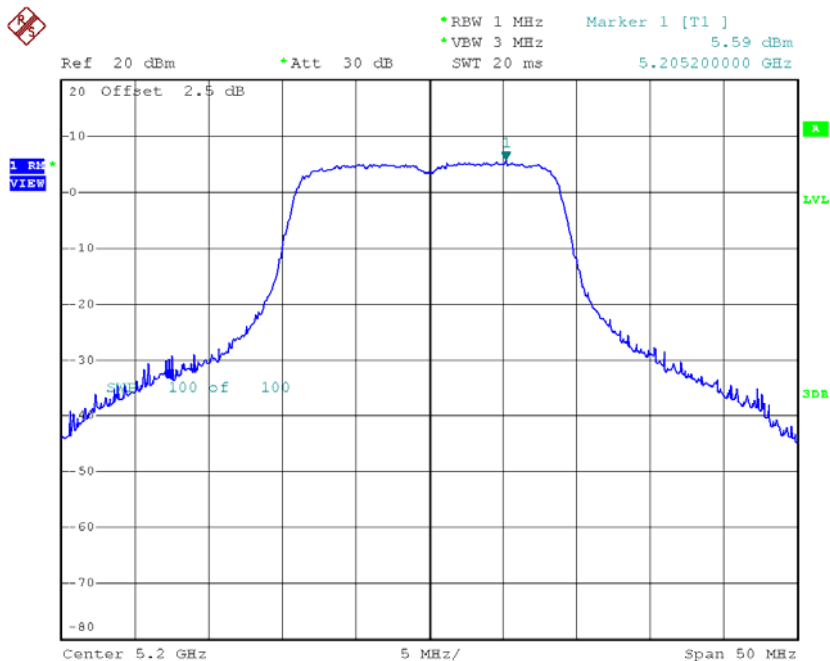
**Test Mode: UNII-1/TX N20 Mode\_CH36/CH40/CH48\_ANT 1**

| Channel | Frequency (MHz) | Power Density (dBm/MHz) | Duty Factor (dBm/MHz) | Power Density + Duty Factor (dBm/MHz) | Limit (dBm/MHz) |
|---------|-----------------|-------------------------|-----------------------|---------------------------------------|-----------------|
| CH36    | 5180            | 3.83                    | 0.26                  | 4.09                                  | 11.00           |
| CH40    | 5200            | 5.59                    | 0.26                  | 5.85                                  | 11.00           |
| CH48    | 5240            | 7.83                    | 0.26                  | 8.09                                  | 11.00           |



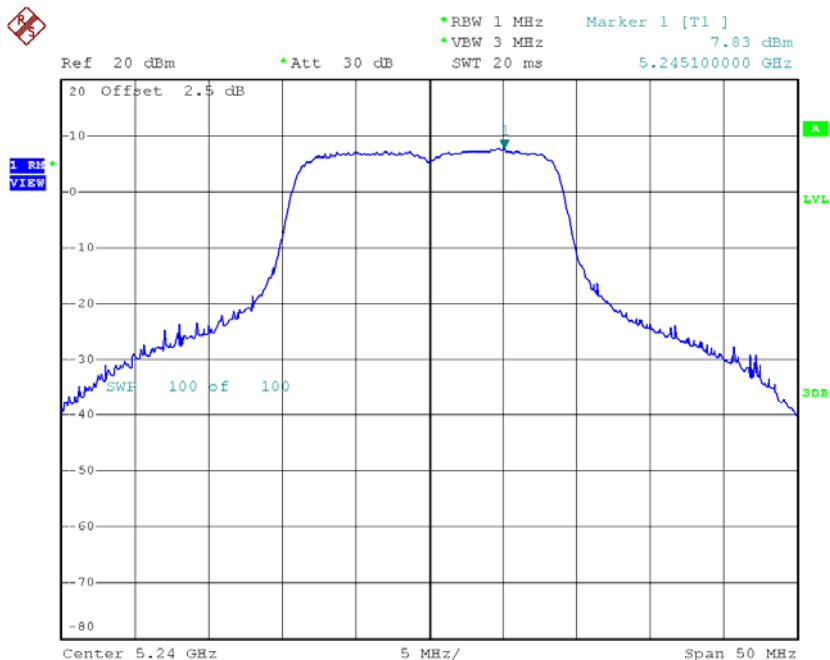
Date: 6.JAN.2016 17:02:38

# CH40



Date: 6.JAN.2016 17:04:17

# CH48

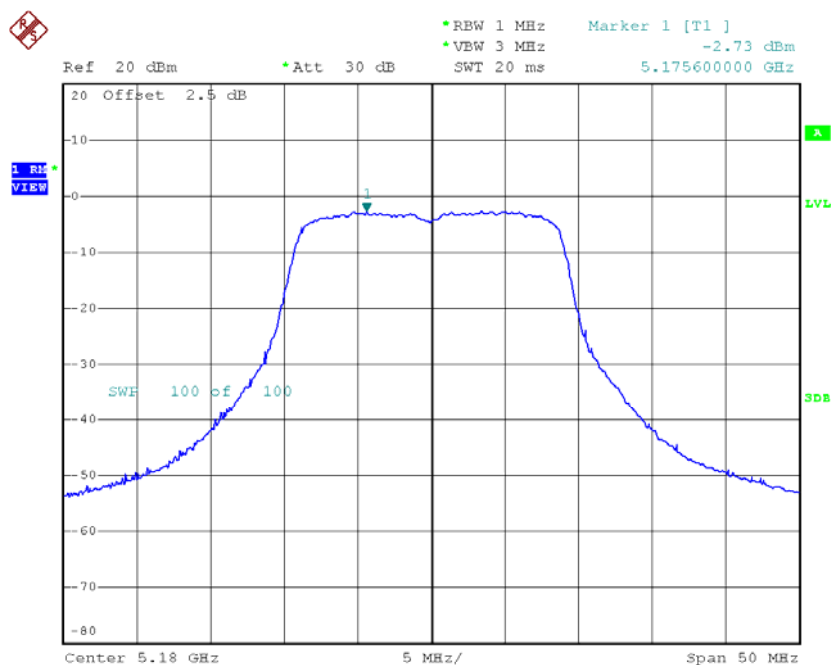


Date: 6.JAN.2016 17:05:31

**Test Mode: UNII-1/TX N20 Mode\_CH36/CH40/CH48\_ANT 2**

| Channel | Frequency (MHz) | Power Density (dBm/MHz) | Duty Factor (dBm/MHz) | Power Density + Duty Factor (dBm/MHz) | Limit (dBm/MHz) |
|---------|-----------------|-------------------------|-----------------------|---------------------------------------|-----------------|
| CH36    | 5180            | -2.73                   | 0.26                  | -2.47                                 | 11.00           |
| CH40    | 5200            | -2.80                   | 0.26                  | -2.54                                 | 11.00           |
| CH48    | 5240            | -2.32                   | 0.26                  | -2.06                                 | 11.00           |

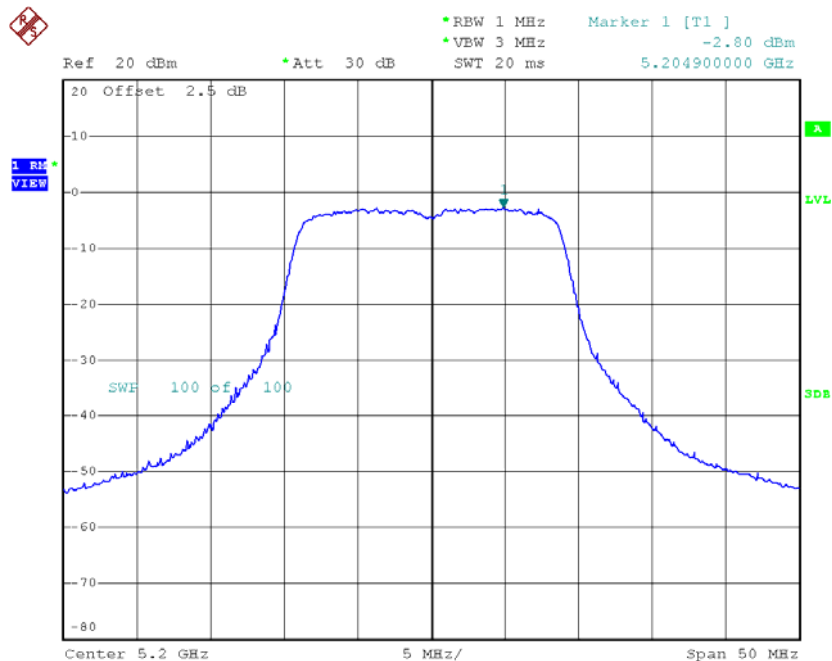
**CH36**



Date: 6.JAN.2016 18:40:46

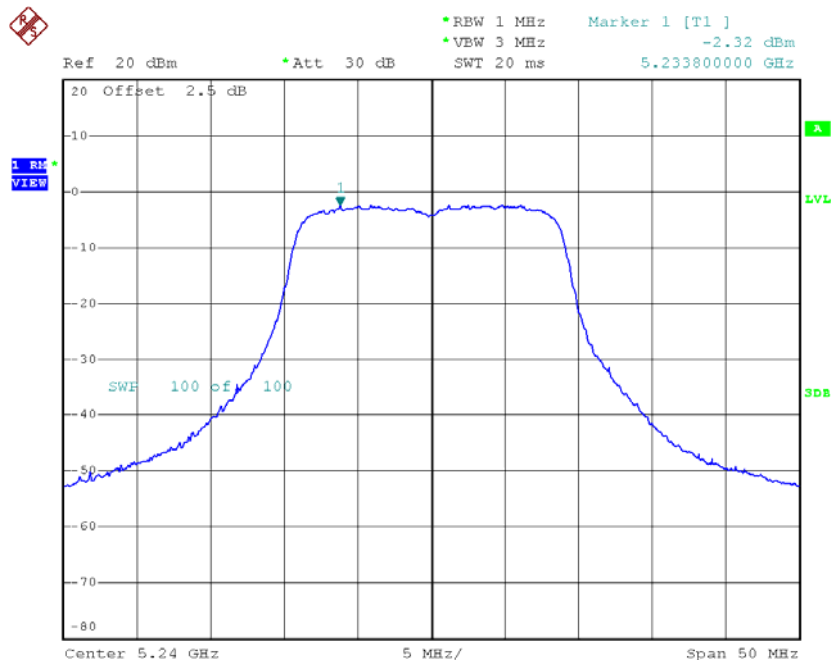


# CH40



Date: 6.JAN.2016 18:42:13

# CH48



Date: 6.JAN.2016 18:43:21

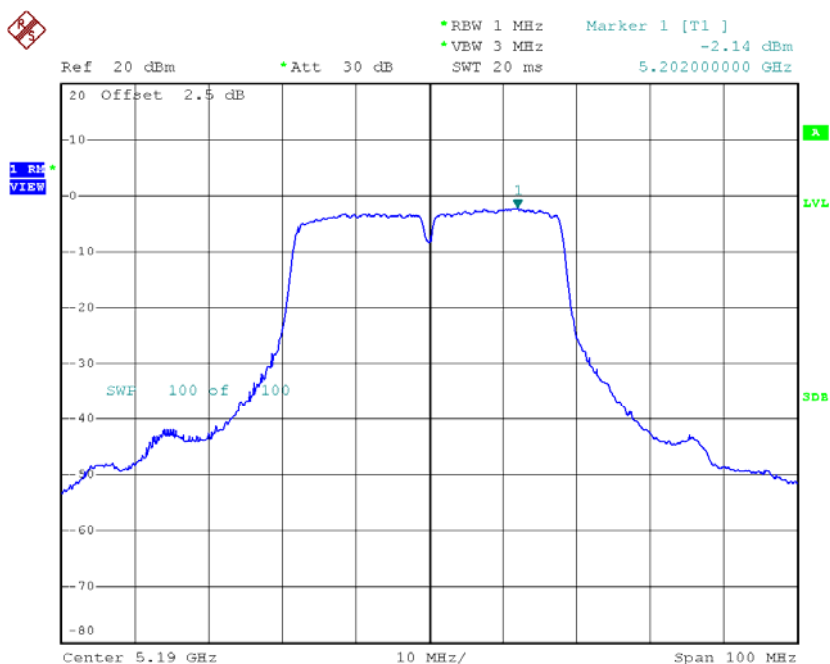
**Test Mode: UNII-1/TX N20 Mode\_CH36/CH40/CH48\_Total**

| Channel | Frequency<br>(MHz) | Power Density<br>(dBm/MHz) | Duty Factor<br>(dBm/MHz) | Power Density +<br>Duty Factor<br>(dBm/MHz) | Limit<br>(dBm/MHz) |
|---------|--------------------|----------------------------|--------------------------|---|--------------------|
| CH36    | 5180               | 4.96                       | 0.26                     | 4.96  | 11.00              |
| CH40    | 5200               | 6.44                       | 0.26                     | 6.44  | 11.00              |
| CH48    | 5240               | 8.49                       | 0.26                     | 8.49  | 11.00              |

**Test Mode: UNII-1/TX N40 Mode\_CH38/CH46\_ANT 1**

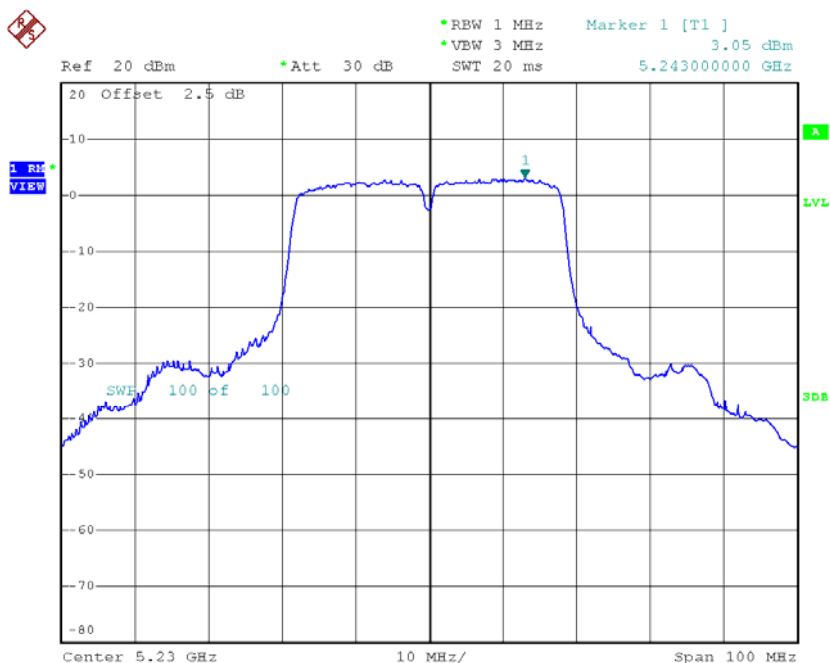
| Channel | Frequency<br>(MHz) | Power Density<br>(dBm/MHz) | Duty Factor<br>(dBm/MHz) | Power Density +<br>Duty Factor<br>(dBm/MHz) | Limit<br>(dBm/MHz) |
|---------|--------------------|----------------------------|--------------------------|---|--------------------|
| CH38    | 5190               | -2.14                      | 0.63                     | -1.51                                       | 11.00              |
| CH46    | 5230               | 3.05                       | 0.63                     | 3.68  | 11.00              |

# CH38



Date: 6.JAN.2016 17:29:28

# CH46

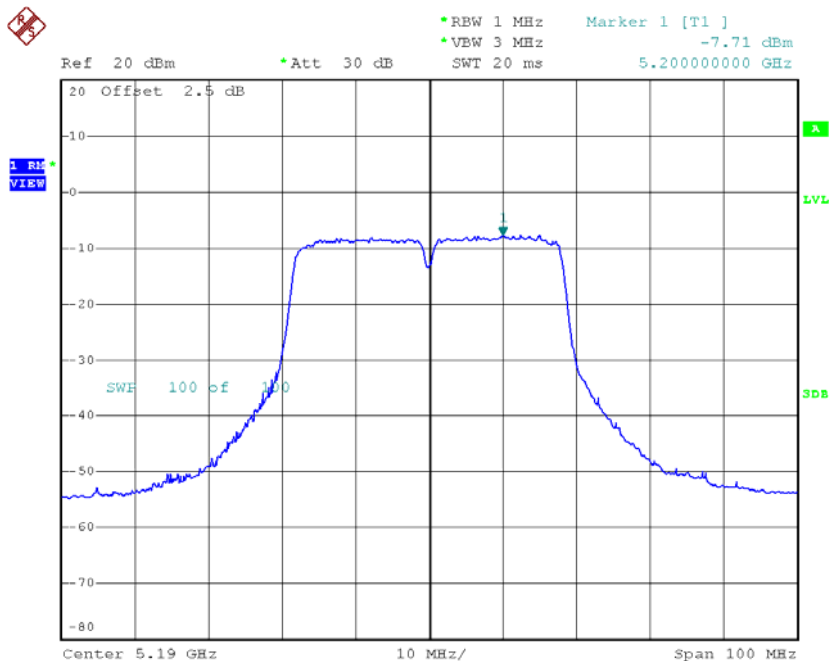


Date: 6.JAN.2016 17:31:58

**Test Mode: UNII-1/TX N40 Mode\_CH38/CH46\_ANT 2**

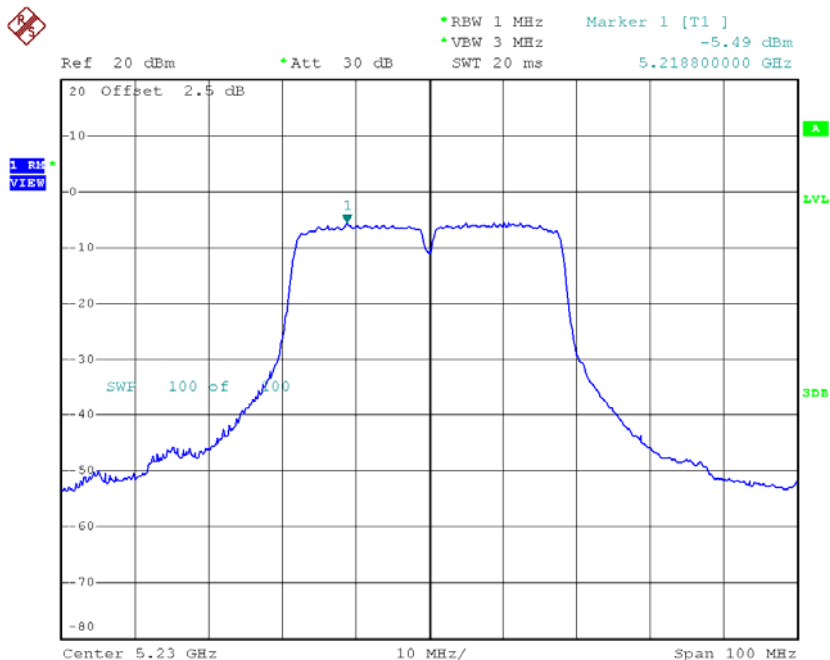
| Channel | Frequency<br>(MHz) | Power Density<br>(dBm/MHz) | Duty Factor<br>(dBm/MHz) | Power Density +<br>Duty Factor<br>(dBm/MHz) | Limit<br>(dBm/MHz) |
|---------|--------------------|----------------------------|--------------------------|---|--------------------|
| CH38    | 5190               | -7.71                      | 0.63                     | -7.08                                       | 11.00              |
| CH46    | 5230               | -5.49                      | 0.63                     | -4.86                                       | 11.00              |

### CH38



Date: 6.JAN.2016 19:25:26

### CH46



Date: 6.JAN.2016 19:27:19

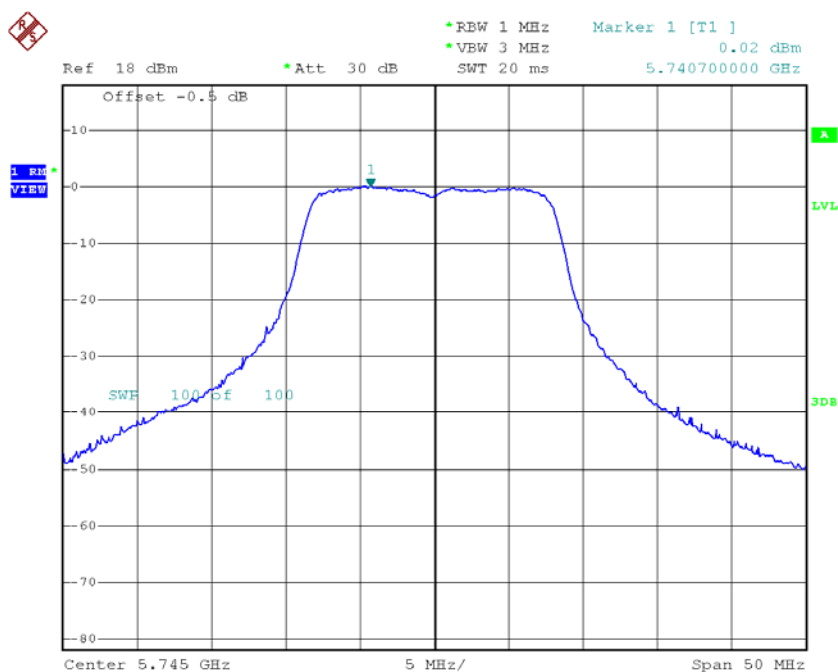
**Test Mode: UNII-1/TX N40 Mode\_CH38/CH46\_Total**

| Channel | Frequency (MHz) | Power Density (dBm/MHz) | Duty Factor (dBm/MHz) | Power Density + Duty Factor (dBm/MHz) | Limit (dBm/MHz) |
|---------|-----------------|-------------------------|-----------------------|---------------------------------------|-----------------|
| CH38    | 5190            | -0.45                   | 0.63                  | -0.45                                 | 11.00           |
| CH46    | 5230            | 4.25                    | 0.63                  | 4.25                                  | 11.00           |

**Test Mode: UNII-3/TX A Mode\_CH149/CH157/CH165**

| Channel | Frequency (MHz) | Power Density (dBm/500kHz) | Duty Factor (dBm/MHz) | Power Density + Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) |
|---------|-----------------|----------------------------|-----------------------|--|--------------------|
| CH149   | 5745            | 0.02                       | 0.13                  | 0.15                                     | 30.00              |
| CH157   | 5785            | 0.64                       | 0.13                  | 0.77                                     | 30.00              |
| CH165   | 5825            | -0.67                      | 0.13                  | -0.54                                    | 30.00              |

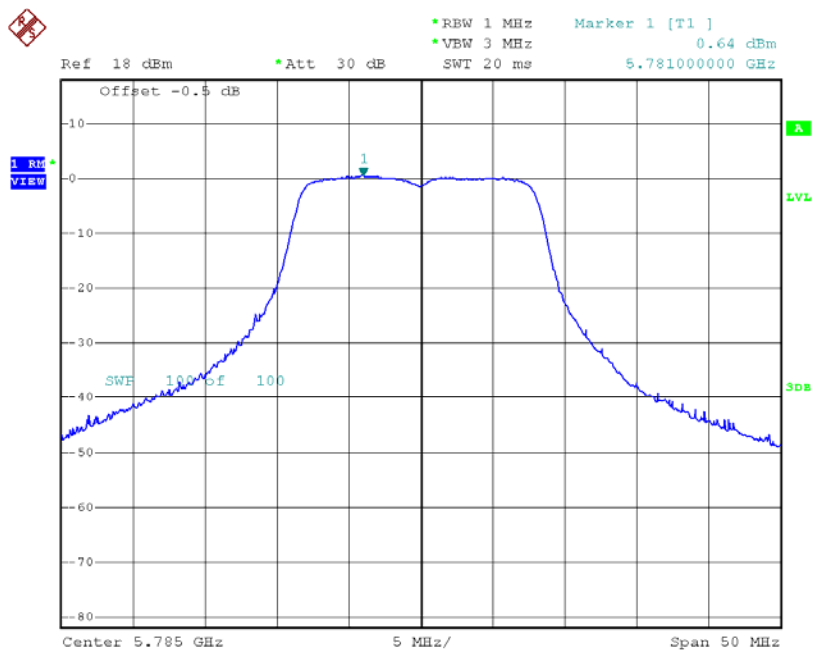
**TX CH149**



Date: 6.JAN.2016 16:56:30

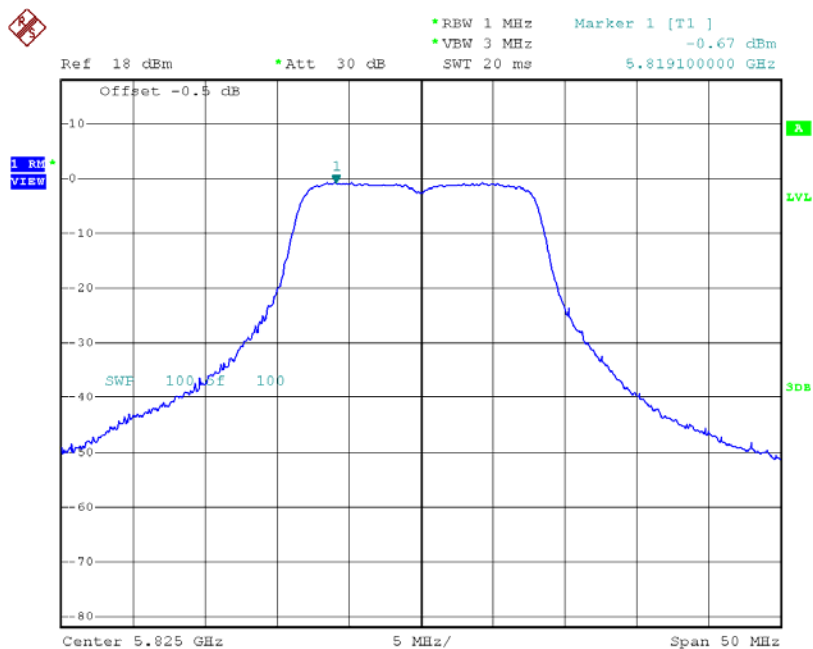


# TX CH157



Date: 6.JAN.2016 16:58:35

# TX CH165

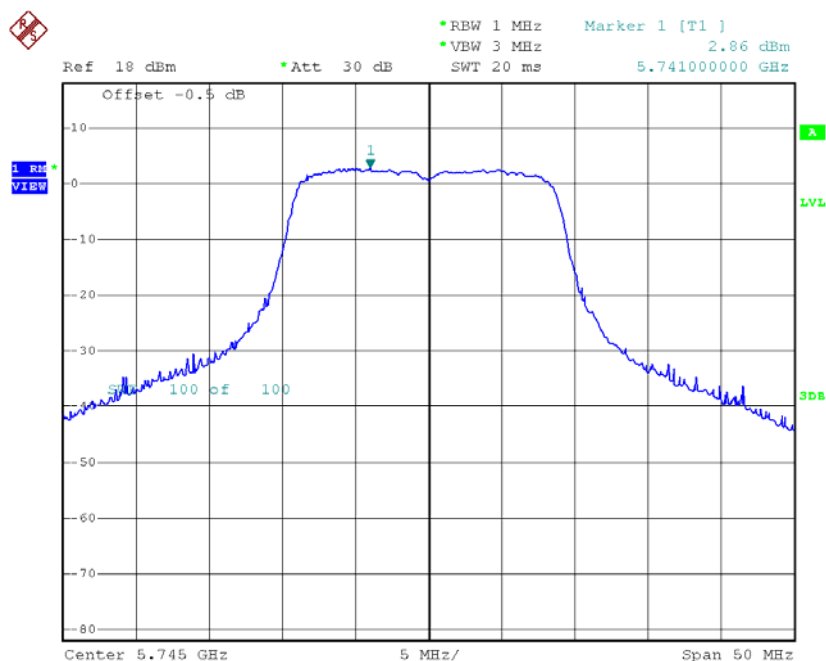


Date: 6.JAN.2016 17:00:18

**Test Mode: UNII-3/ TX N20 Mode\_CH149/CH157/CH165\_ANT 1**

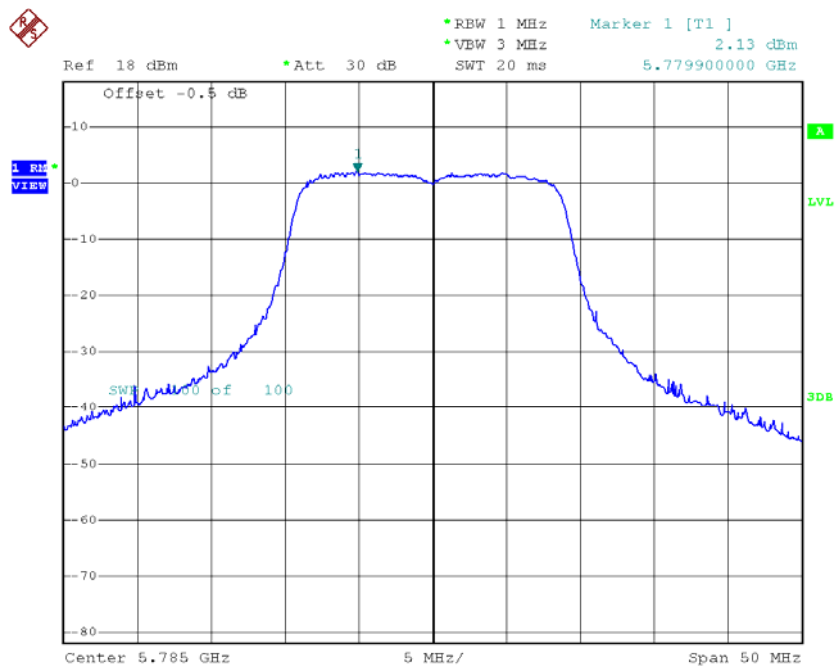
| Channel | Frequency (MHz) | Power Density (dBm/500kHz) | Duty Factor (dBm/MHz) | Power Density + Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) |
|---------|-----------------|----------------------------|-----------------------|--|--------------------|
| CH149   | 5745            | 2.86                       | 0.26                  | 3.12                                     | 30.00              |
| CH157   | 5785            | 2.13                       | 0.26                  | 2.39                                     | 30.00              |
| CH165   | 5825            | 1.15                       | 0.26                  | 1.41                                     | 30.00              |

**TX CH149**



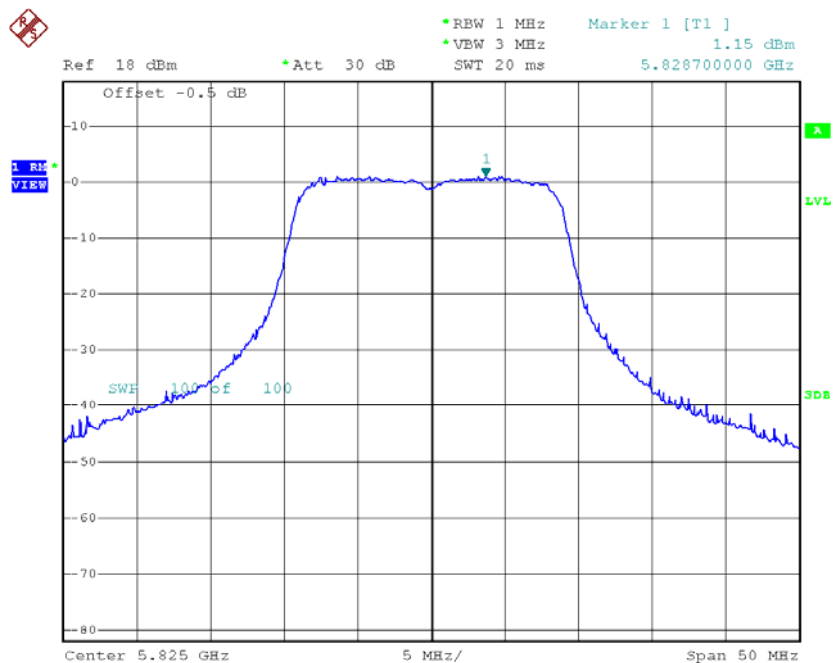
Date: 6.JAN.2016 17:21:11

# TX CH157



Date: 6.JAN.2016 17:22:46

# TX CH165

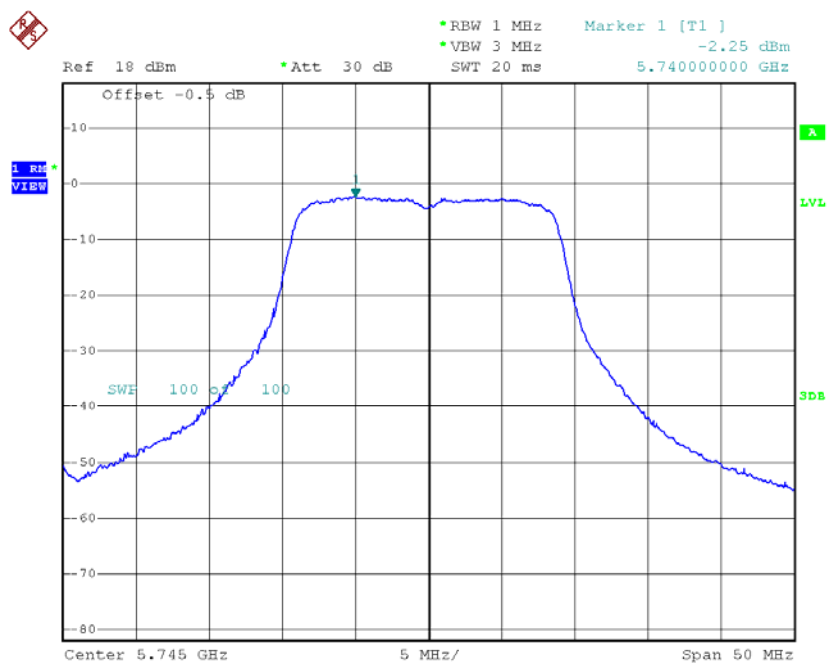


Date: 6.JAN.2016 17:24:14

**Test Mode: UNII-3/ TX N20 Mode\_CH149/CH157/CH165\_ANT 2**

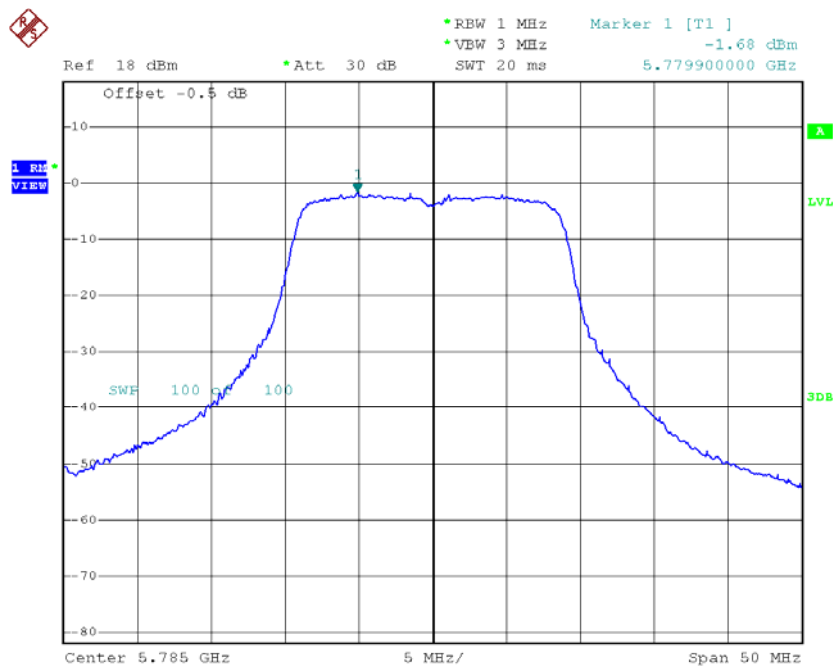
| Channel | Frequency (MHz) | Power Density (dBm/500kHz) | Duty Factor (dBm/MHz) | Power Density + Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) |
|---------|-----------------|----------------------------|-----------------------|--|--------------------|
| CH149   | 5745            | -2.25                      | 0.26                  | -1.99                                    | 30.00              |
| CH157   | 5785            | -1.68                      | 0.26                  | -1.42                                    | 30.00              |
| CH165   | 5825            | -2.31                      | 0.26                  | -2.05                                    | 30.00              |

**TX CH149**



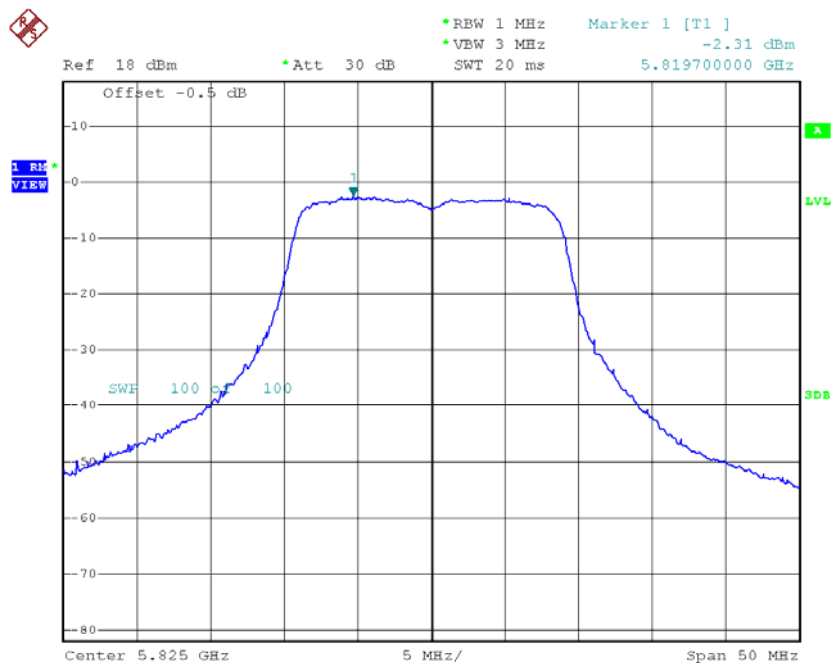
Date: 6.JAN.2016 19:19:14

# TX CH157



Date: 6.JAN.2016 19:20:52

# TX CH165



Date: 6.JAN.2016 19:22:16

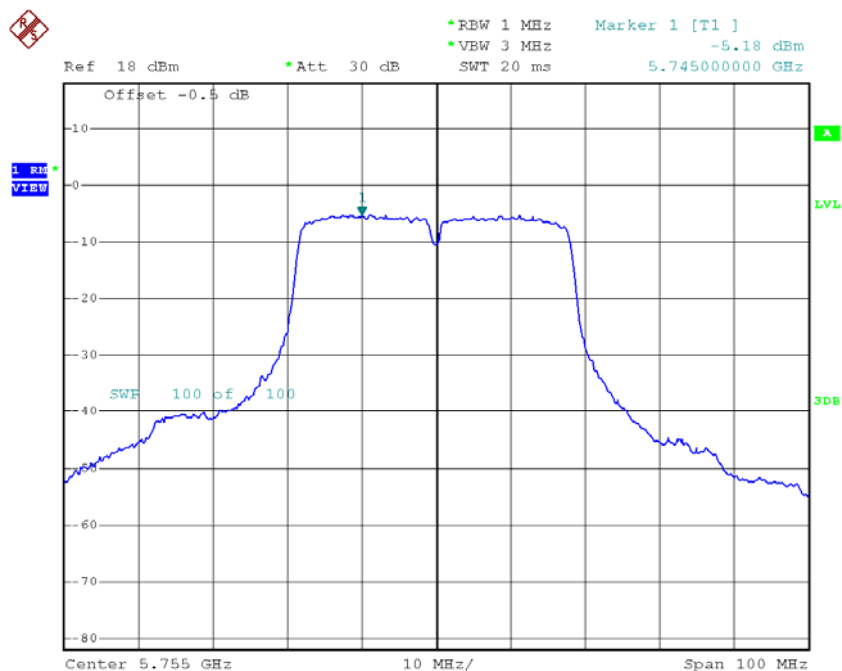
**Test Mode: UNII-3/ TX N20 Mode\_CH149/CH157/CH165\_Total**

| Channel | Frequency<br>(MHz) | Power Density<br>(dBm/500kHz) | Duty Factor<br>(dBm/MHz) | Power Density +<br>Duty Factor<br>(dBm/500kHz) | Limit<br>(dBm/500kHz) |
|---------|--------------------|-------------------------------|--------------------------|--|-----------------------|
| CH149   | 5745               | 4.29                          | 0.26                     | 4.29   | 30.00                 |
| CH157   | 5785               | 3.90                          | 0.26                     | 3.90   | 30.00                 |
| CH165   | 5825               | 3.03                          | 0.26                     | 3.03   | 30.00                 |

**Test Mode: UNII-3/ TX N40 Mode\_CH151/CH159\_ANT 1**

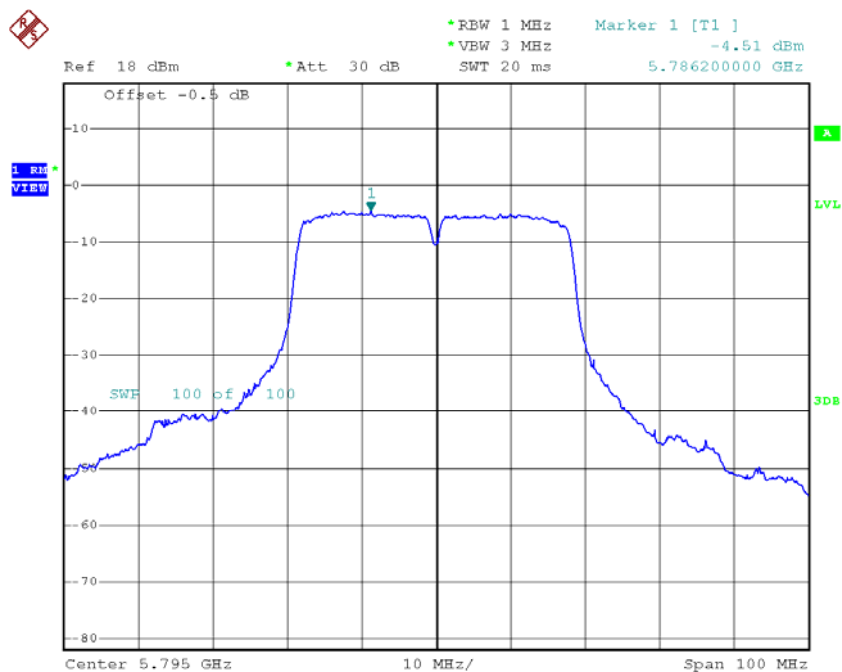
| Channel | Frequency<br>(MHz) | Power Density<br>(dBm/500kHz) | Duty Factor<br>(dBm/MHz) | Power Density +<br>Duty Factor<br>(dBm/500kHz) | Limit<br>(dBm/500kHz) |
|---------|--------------------|-------------------------------|--------------------------|--|-----------------------|
| CH151   | 5755               | -5.18                         | 0.63                     | -4.55  | 30.00                 |
| CH159   | 5795               | -4.51                         | 0.63                     | -3.88  | 30.00                 |

# TX CH151



Date: 6.JAN.2016 18:13:40

# TX CH159



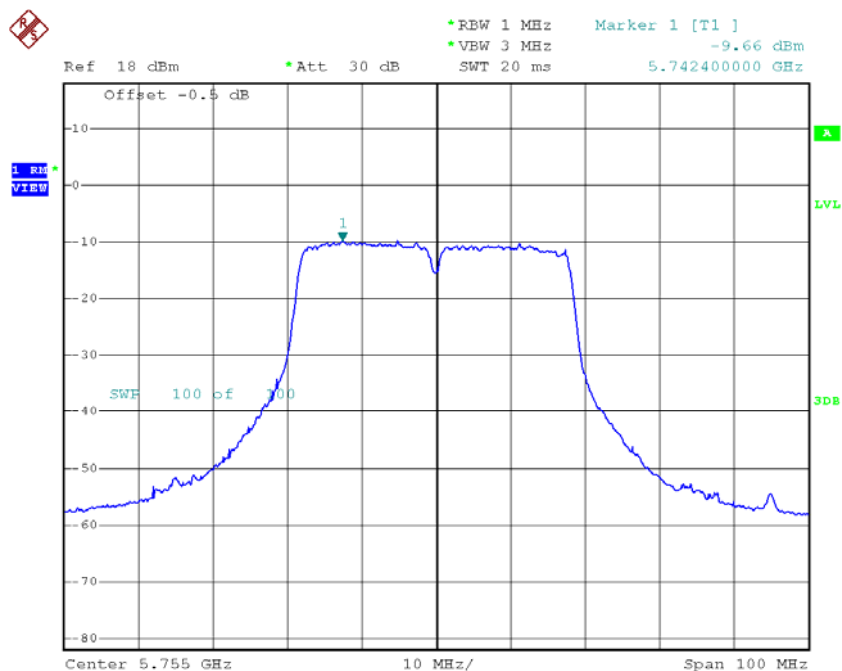
Date: 6.JAN.2016 18:24:57



**Test Mode: UNII-3/ TX N40 Mode\_CH151/CH159\_ANT 2**

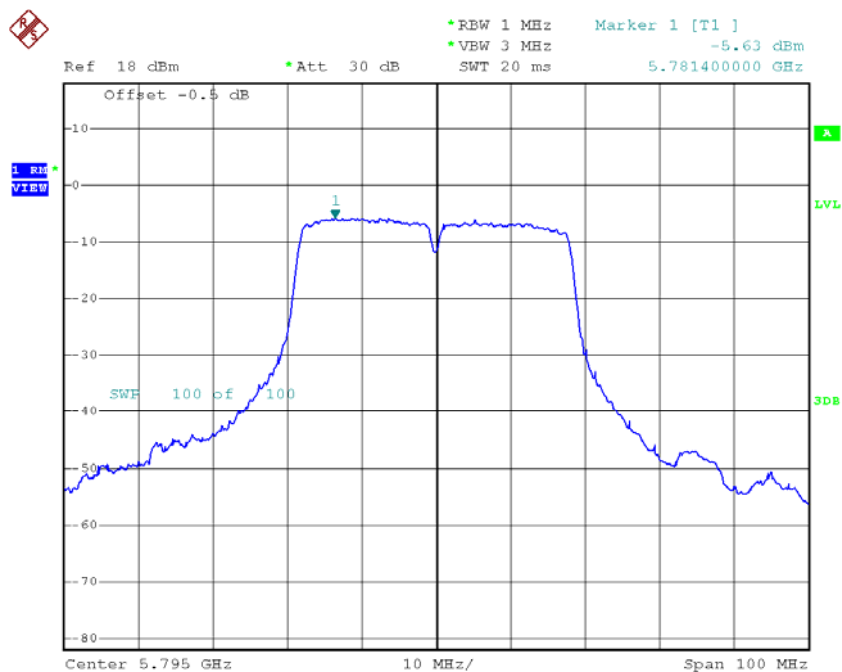
| Channel | Frequency<br>(MHz) | Power Density<br>(dBm/500kHz) | Duty Factor<br>(dBm/MHz) | Power Density +<br>Duty Factor<br>(dBm/500kHz) | Limit<br>(dBm/500kHz) |
|---------|--------------------|-------------------------------|--------------------------|--|-----------------------|
| CH151   | 5755               | -9.66                         | 0.63                     | -9.03  | 30.00                 |
| CH159   | 5795               | -5.63                         | 0.63                     | -5.00  | 30.00                 |

# TX CH151



Date: 6.JAN.2016 19:37:30

# TX CH159



Date: 6.JAN.2016 19:39:22

**Test Mode: UNII-3/ TX N40 Mode\_CH151/CH159\_Total**

| Channel | Frequency<br>(MHz) | Power Density<br>(dBm/500kHz) | Duty Factor<br>(dBm/MHz) | Power Density +<br>Duty Factor<br>(dBm/500kHz) | Limit<br>(dBm/500kHz) |
|---------|--------------------|-------------------------------|--------------------------|--|-----------------------|
| CH151   | 5755               | -3.23                         | 0.63                     | -3.23  | 30.00                 |
| CH159   | 5795               | -1.39                         | 0.63                     | -1.39  | 30.00                 |

## **ATTACHMENT I - FREQUENCY STABILITY**

|                   |               |
|-------------------|---------------|
| <b>Test Mode:</b> | <b>UNII-1</b> |
|-------------------|---------------|

### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |
|----------------------|-----------------------------|
| (V)                  | 5180.0000                   |
| 132                  | 5179.9000                   |
| 120                  | 5179.9012                   |
| 108                  | 5179.9048                   |
| Max. Deviation (MHz) | 0.1000                      |
| Max. Deviation (ppm) | 19.3050                     |

### Temperature vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |
|----------------------|-----------------------------|
| (°C)                 | 5180.0000                   |
| 0                    | 5179.9084                   |
| 5                    | 5179.9124                   |
| 15                   | 5179.9164                   |
| 25                   | 5179.9208                   |
| 35                   | 5179.9224                   |
| 45                   | 5179.9248                   |
| 50                   | 5179.9260                   |
| Max. Deviation (MHz) | 0.0916                      |
| Max. Deviation (ppm) | 17.6834                     |

|                   |               |
|-------------------|---------------|
| <b>Test Mode:</b> | <b>UNII-3</b> |
|-------------------|---------------|

### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |
|----------------------|-----------------------------|
| (V)                  | 5745.0000                   |
| 132                  | 5744.9128                   |
| 120                  | 5744.9132                   |
| 108                  | 5744.9130                   |
| Max. Deviation (MHz) | 0.0872                      |
| Max. Deviation (ppm) | 15.1784                     |

### Temperature vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |
|----------------------|-----------------------------|
| (°C)                 | 5745.0000                   |
| 0                    | 5744.9223                   |
| 5                    | 5744.9228                   |
| 15                   | 5744.9235                   |
| 25                   | 5744.9225                   |
| 35                   | 5744.9230                   |
| 45                   | 5744.9233                   |
| 50                   | 5744.9238                   |
| Max. Deviation (MHz) | 0.0777                      |
| Max. Deviation (ppm) | 13.5248                     |