

# FCC Radio Test Report

## FCC ID: RWO-RZ090281

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

Project No. : 1809C163  
Equipment : Notebook  
Test Model : RZ09-0281  
Series Model : RZ09-028  
Applicant : Razer Inc.  
Address : 201 3rd Street, Suite 900, San Francisco, CA 94103,  
USA

Date of Receipt : Sep. 26, 2018  
Date of Test : Sep. 29, 2018 ~ Oct. 26, 2018  
Issued Date : Nov. 21, 2018  
Tested by : BTL Inc.

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Certificate #5123.02

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**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

### 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

| Report Version | Description     | Issued Date   |
|----------------|-----------------|---------------|
| R00            | Original Issue. | Nov. 21, 2018 |

## 1. CERTIFICATION

Equipment : Notebook  
Brand Name : RAZER  
Test Model : RZ09-0281  
Series Model : RZ09-028  
Applicant : Razer Inc.  
Manufacturer : Razer Inc.  
Address : 201 3rd Street, Suite 900, San Francisco, CA 94103, USA  
Factory : BYD Precision Manufacture Co.,Ltd.  
Address : No.3001, Baohe Road, Baolong industrial, Longgang Street , Longgang Zone, Shenzhen  
Date of Test : Sep. 29, 2018 ~ Oct. 26, 2018  
Test Sample : Engineering Sample No.: D180908790 for conducted, D180908791 for radiated  
Standard(s) : FCC Part15, Subpart C (15.247) / ANSI C63.10-2013

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-3-1809C163) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO-17025 quality assessment standard and technical standard(s).

**Test results included in this report is only for the WLAN 2.4GHz part.**

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| Applied Standard(s): FCC Part15 (15.247) , Subpart C |                                     |          |        |
|------------------------------------------------------|-------------------------------------|----------|--------|
| Standard(s) Section                                  | Test Item                           | Judgment | Remark |
| 15.207                                               | Conducted Emission                  | PASS     |        |
| 15.247(d)                                            | Antenna conducted Spurious Emission | PASS     |        |
| 15.247(a)(2)                                         | 6 dB Bandwidth                      | PASS     |        |
| 15.247(b)(3)                                         | Maximum output power                | PASS     |        |
| 15.247(e)                                            | Power Spectral Density              | PASS     |        |
| 15.203                                               | Antenna Requirement                 | PASS     |        |
| 15.247(d)/<br>15.205/<br>15.209                      | Transmitter Radiated Emissions      | 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.

BTL's test firm number for FCC: 854385

BTL's designation number for FCC: CN5020

## 2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor)  $k=1.96$  or  $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %,  $U=2 \times U_c(y)$ .

The BTL measurement uncertainty as below table:

### A. Conducted Measurement:

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|-----------|--------|-----------------------------|---------|
| DG-C02    | CISPR  | 150 kHz ~ 30 MHz            | 2.32    |

### B. Radiated Measurement:

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U, (dB) |
|-----------|--------|-----------------------------|------------|---------|
| DG-CB03   | CISPR  | 9 KHz~30 MHz                | V          | 3.79    |
|           |        | 9 KHz~30 MHz                | H          | 3.57    |
|           |        | 30 MHz~200 MHz              | V          | 3.82    |
|           |        | 30 MH~200 MHz               | H          | 3.78    |
|           |        | 200 MHz~1,000 MHz           | V          | 4.10    |
|           |        | 200 MHz~1,000 MHz           | H          | 4.06    |
|           |        | 1 GHz~18 GHz                | V          | 3.12    |
|           |        | 1 GHz~18 GHz                | H          | 3.68    |
|           |        | 18 GHz~40 GHz               | V          | 4.15    |
|           |        | 18 GHz~40 GHz               | 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           | Notebook                                                                                                                                        |                                                                                                      |
| Brand Name          | RAZER                                                                                                                                           |                                                                                                      |
| Test Model          | RZ09-0281                                                                                                                                       |                                                                                                      |
| Series Model        | RZ09-028                                                                                                                                        |                                                                                                      |
| Model Difference(s) | RZ09-0281 uses an independent graphics card and RZ09-028 uses an integrated graphics card.                                                      |                                                                                                      |
| Software Version    | Windows 10                                                                                                                                      |                                                                                                      |
| Hardware Version    | N13RW2_MB                                                                                                                                       |                                                                                                      |
| Product Description | Operation Frequency                                                                                                                             | 2412 MHz ~ 2462 MHz                                                                                  |
|                     | Modulation Technology                                                                                                                           | 802.11b:DSSS<br>802.11g:OFDM<br>802.11n:OFDM                                                         |
|                     | Bit Rate of Transmitter                                                                                                                         | 802.11b: 11/5.5/2/1 Mbps<br>802.11g: 54/48/36/24/18/12/9/6 Mbps<br>802.11n up to 300 Mbps            |
|                     | Output Power (Max.)                                                                                                                             | 802.11b: 20.99 dBm<br>802.11g: 24.10 dBm<br>802.11n(20 MHz): 24.26 dBm<br>802.11n(40 MHz): 22.45 dBm |
| Power Source        | #1 DC voltage supplied from AC/DC adapter.<br>Model: RC30-0239<br>#2 Supplied from rechargeable Li-ion battery.<br>Brand/Model: RAZER/RC30-0281 |                                                                                                      |
| Power Rating        | #1 I/P: 100-240Vac, 50/60Hz, 2A O/P: 20V $\approx$ 3.25A<br>#2 DC11.55V, 4602mAh/53.1Wh                                                         |                                                                                                      |

Note:

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

| CH01 - CH11 for 802.11b, 802.11g, 802.11n(20 MHz)<br>CH03 - CH09 for 802.11n(40 MHz) |                 |         |                 |         |                 |         |                 |
|--------------------------------------------------------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                                                                              | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01                                                                                   | 2412            | 04      | 2427            | 07      | 2442            | 10      | 2457            |
| 02                                                                                   | 2417            | 05      | 2432            | 08      | 2447            | 11      | 2462            |
| 03                                                                                   | 2422            | 06      | 2437            | 09      | 2452            |         |                 |

### 3. Table for Filed Antenna

| Ant. | Brand | P/N             | Antenna Type | Connector | Gain (dBi) |
|------|-------|-----------------|--------------|-----------|------------|
| 1    | ATC   | BY5780-16-002-C | PIFA         | IPEX      | 2.34       |
| 2    | ATC   | BY5780-16-001-C | PIFA         | IPEX      | 2.56       |

Note:

This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain =  $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$  dBi, that is Directional gain =  $10\log[(10^{2.34/20} + 10^{2.56/20})^2 / 2]$  dBi = 5.46.

### 4. The worst case for 2TX as follow:

| Operating Mode | TX Mode | 2TX             |
|----------------|---------|-----------------|
| 802.11b        |         | V (ANT 1+ANT 2) |
| 802.11g        |         | V (ANT 1+ANT 2) |
| 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 Mode | Description                       |
|--------------|-----------------------------------|
| Mode 1       | TX B Mode Channel 01/06/11        |
| Mode 2       | TX G Mode Channel 01/06/11        |
| Mode 3       | TX N-20 MHz Mode Channel 01/06/11 |
| Mode 4       | TX N-40 MHz Mode Channel 03/06/09 |
| Mode 5       | 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 5             | TX Mode     |

| For Radiated Test |                                   |
|-------------------|-----------------------------------|
| Final Test Mode:  | Description                       |
| Mode 1            | TX B Mode Channel 01/06/11        |
| Mode 2            | TX G Mode Channel 01/06/11        |
| Mode 3            | TX N-20 MHz Mode Channel 01/06/11 |
| Mode 4            | TX N-40 MHz Mode Channel 03/06/09 |

| For Band Edge Test |                                   |
|--------------------|-----------------------------------|
| Final Test Mode:   | Description                       |
| Mode 1             | TX B Mode Channel 01/06/11        |
| Mode 2             | TX G Mode Channel 01/06/11        |
| Mode 3             | TX N-20 MHz Mode Channel 01/06/11 |
| Mode 4             | TX N-40 MHz Mode Channel 03/06/09 |

| 6 dB Spectrum Bandwidth |                                   |
|-------------------------|-----------------------------------|
| Final Test Mode:        | Description                       |
| Mode 1                  | TX B Mode Channel 01/06/11        |
| Mode 2                  | TX G Mode Channel 01/06/11        |
| Mode 3                  | TX N-20 MHz Mode Channel 01/06/11 |
| Mode 4                  | TX N-40 MHz Mode Channel 03/06/09 |

| Maximum Output Power |                                   |
|----------------------|-----------------------------------|
| Final Test Mode:     | Description                       |
| Mode 1               | TX B Mode Channel 01/06/11        |
| Mode 2               | TX G Mode Channel 01/06/11        |
| Mode 3               | TX N-20 MHz Mode Channel 01/06/11 |
| Mode 4               | TX N-40 MHz Mode Channel 03/06/09 |

| Power Spectral Density |                                   |
|------------------------|-----------------------------------|
| Final Test Mode:       | Description                       |
| Mode 1                 | TX B Mode Channel 01/06/11        |
| Mode 2                 | TX G Mode Channel 01/06/11        |
| Mode 3                 | TX N-20 MHz Mode Channel 01/06/11 |
| Mode 4                 | TX N-40 MHz Mode Channel 03/06/09 |

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1 Mbps)  
 802.11g mode: OFDM (6 Mbps)  
 802.11n HT20 mode : BPSK (13 Mbps)  
 802.11n HT40 mode : BPSK (27 Mbps)  
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated 30 MHz to 1000 MHz test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

### 3.3 TABLE OF PARAMETERS OF TEXT 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 power parameters of WLAN

| Test software version | DRTU    |         |           |
|-----------------------|---------|---------|-----------|
| Frequency (MHz)       | 2412    | 2437    | 2462      |
| 802.11b               | 16/16   | 16/16   | 15.5/15.5 |
| 802.11g               | 16/16   | 16/16   | 15.5/15.5 |
| 802.11n (20 MHz)      | 16/16   | 16/16   | 16/16     |
| Frequency (MHz)       | 2422    | 2437    | 2452      |
| 802.11n (40 MHz)      | 14/14.5 | 14.5/14 | 14.5/15.5 |

### 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. |
|------|-----------|-----------|----------------|--------|------------|
| -    | -         | -         | -              | -      | -          |

| Item | Shielded Type | Ferrite Core | Length | Note     |
|------|---------------|--------------|--------|----------|
| 1    | NO            | NO           | 2m     | DC Cable |
| 2    | NO            | NO           | 1m     | AC Cable |

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

| Frequency of Emission (MHz) | Conducted Limit (dBμV) |           |
|-----------------------------|------------------------|-----------|
|                             | Quasi-peak             | Average   |
| 0.15 - 0.50                 | 66 to 56*              | 56 to 46* |
| 0.50 - 5.0                  | 56                     | 46        |
| 5.0 - 30.0                  | 60                     | 50        |

Note:

- (1) The limit of " \* " decreases with the logarithm of the frequency
- (2) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)  
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

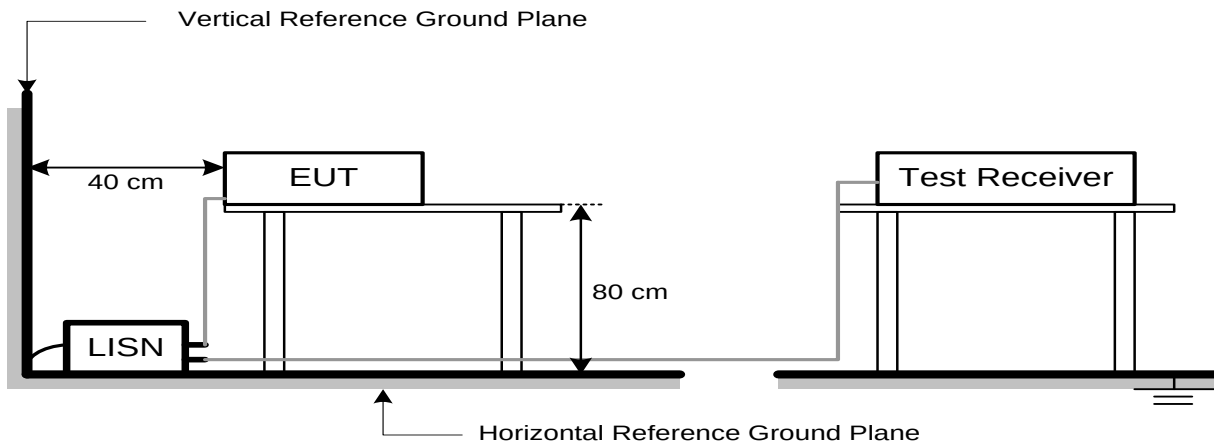
#### 4.1.2 TEST PROCEDURE

- 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 equipment 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 placed on the test table and programmed in normal function.

#### 4.1.6 EUT TEST CONDITIONS

Temperature: 27°C    Relative Humidity: 39%    Test Voltage: AC 120V/60Hz

#### 4.1.7 TEST RESULTS

Please refer to the Appendix 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 150 kHz to 30 MHz.

## 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.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009~0.490     | 2400/F(kHz)                       | 300                           |
| 0.490~1.705     | 24000/F(kHz)                      | 30                            |
| 1.705~30.0      | 30                                | 30                            |
| 30~88           | 100                               | 3                             |
| 88~216          | 150                               | 3                             |
| 216~960         | 200                               | 3                             |
| 960~1000        | 500                               | 3                             |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

| Frequency (MHz) | (dBuV/m) (at 3 meters) |         |
|-----------------|------------------------|---------|
|                 | Peak                   | Average |
| Above 1000      | 74                     | 54      |

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)  
 Margin Level = Measurement Value - Limit Value

| Spectrum Parameter                         | Setting                                            |
|--------------------------------------------|----------------------------------------------------|
| Attenuation                                | Auto                                               |
| Start Frequency                            | 1000 MHz                                           |
| Stop Frequency                             | 10th carrier harmonic                              |
| RBW / VBW<br>(Emission in restricted band) | 1 MHz / 3 MHz for Peak,<br>1 MHz / 1/T for Average |

| Receiver Parameter     | Setting                             |
|------------------------|-------------------------------------|
| Attenuation            | Auto                                |
| Start ~ Stop Frequency | 9 kHz~90 kHz for PK/AVG detector    |
| Start ~ Stop Frequency | 90 kHz~110 kHz for QP detector      |
| Start ~ Stop Frequency | 110 kHz~490 kHz for PK/AVG detector |
| Start ~ Stop Frequency | 490 kHz~30 MHz for QP detector      |
| Start ~ Stop Frequency | 30 MHz~1000 MHz for QP detector     |

#### 4.2.2 TEST PROCEDURE

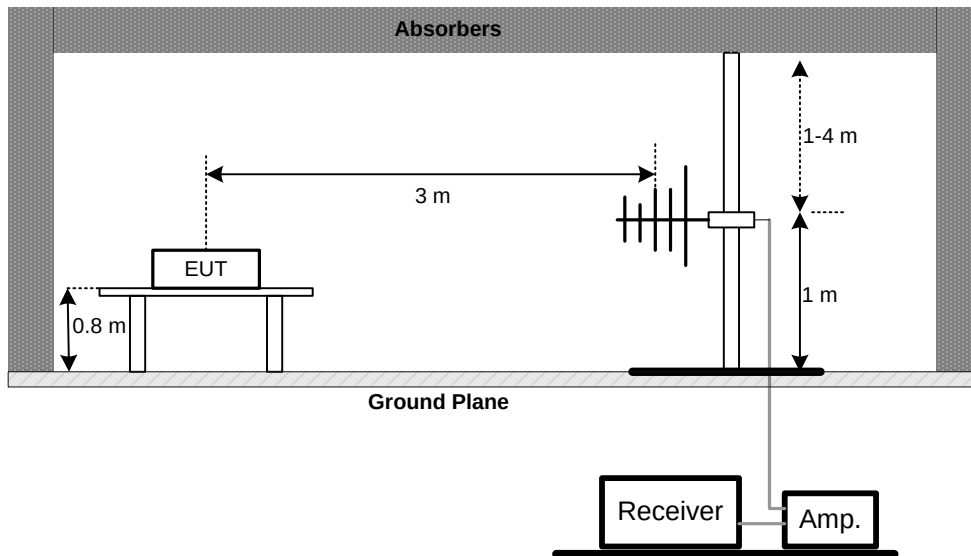
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- The measuring distance 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 1 GHz)
- The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

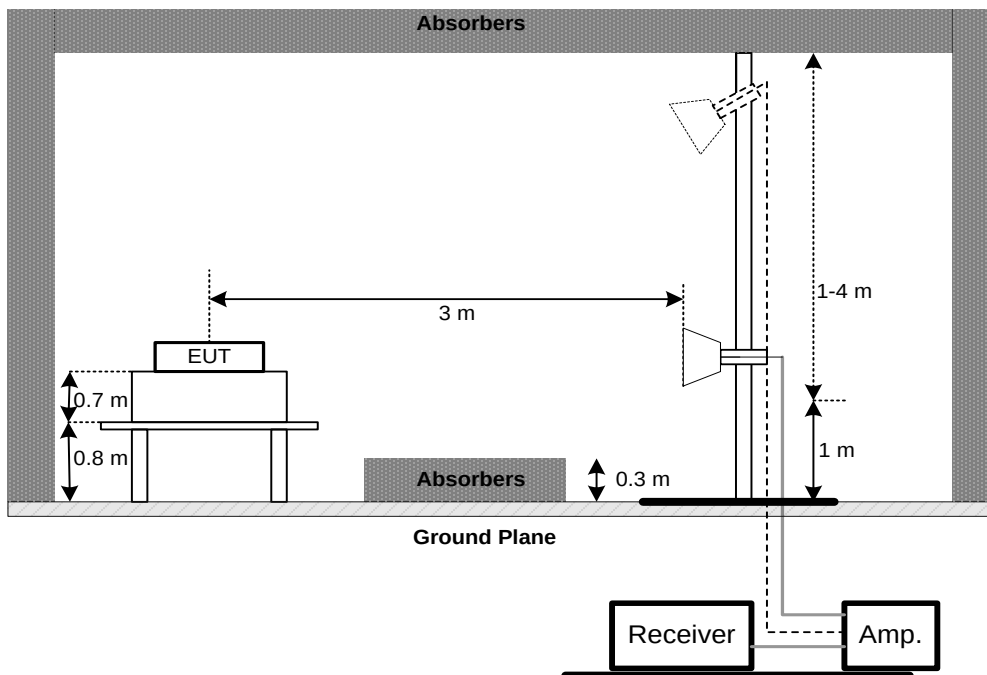
No deviation

#### 4.2.4 TEST SETUP

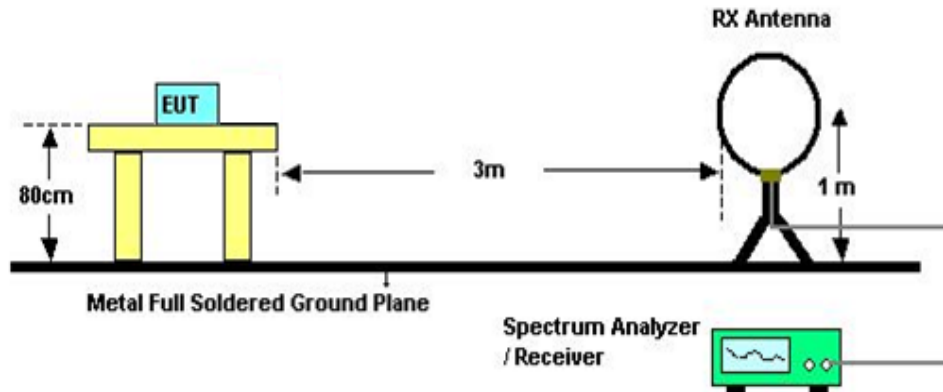
##### (A) Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



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



(C) For Radiated Emissions 9 kHz-30 MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.2.6 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 60%    Test Voltage: AC 120V/60Hz

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

Please refer to the Appendix 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 MHz TO 1000 MHz)

Please refer to the Appendix C.

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

Please refer to the Appendix D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES

| FCC Part15 (15.247) , Subpart C |           |                       |        |
|---------------------------------|-----------|-----------------------|--------|
| Section                         | Test Item | Frequency Range (MHz) | Result |
| 15.247(a)(2)                    | Bandwidth | 2400-2483.5           | PASS   |

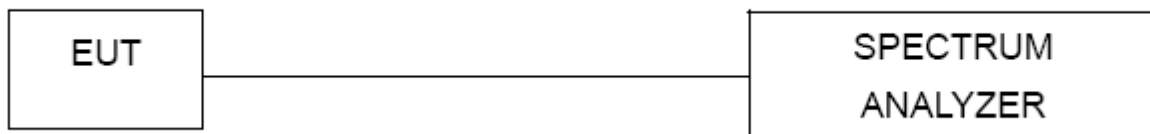
#### 5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: For B,G.N20 mode: RBW= 300KHz, VBW=1MHz,For N40 mode: RBW= 1MHz, VBW=3MHz Sweep time = 2.5 ms.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 58%    Test Voltage: AC 120V/60Hz

#### 5.1.6 TEST RESULTS

Please refer to the Appendix E.

## 6. MAXIMUM OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                      |                  |                       |        |
|---------------------------------|----------------------|------------------|-----------------------|--------|
| Section                         | Test Item            | Limit            | Frequency Range (MHz) | Result |
| 15.247(b)(3)                    | Maximum Output Power | 1 Watt or 30 dBm | 2400-2483.5           | PASS   |

#### 6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum peak output power was performed in accordance with method 8.3.1.3 of FCC KDB 558074 D01 15.247 Meas Guidance v05 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 6.1.5 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 58%    Test Voltage: AC 120V/60Hz

#### 6.1.6 TEST RESULTS

Please refer to the Appendix F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

#### 7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.
- Offset=antenna gain+cable loss

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 7.1.5 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 58%    Test Voltage: AC 120V/60Hz

#### 7.1.6 TEST RESULTS

Please refer to the Appendix G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C |                        |                      |                       |        |
|---------------------------------|------------------------|----------------------|-----------------------|--------|
| Section                         | Test Item              | Limit                | Frequency Range (MHz) | Result |
| 15.247(e)                       | Power Spectral Density | 8 dBm (in any 3 kHz) | 2400-2483.5           | PASS   |

#### 8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = Auto.

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.1.5 EUT TEST CONDITIONS

Temperature: 25°C    Relative Humidity: 58%    Test Voltage: AC 120V/60Hz

#### 8.1.6 TEST RESULTS

Please refer to the Appendix H.

## 9. MEASUREMENT INSTRUMENTS LIST

| Conducted Emission Measurement |                      |              |                       |            |                  |
|--------------------------------|----------------------|--------------|-----------------------|------------|------------------|
| Item                           | Kind of Equipment    | Manufacturer | Type No.              | Serial No. | Calibrated until |
| 1                              | EMI Test Receiver    | R&S          | ESCI                  | 100382     | Mar. 11, 2019    |
| 2                              | LISN                 | EMCO         | 3816/2                | 52765      | Mar. 11, 2019    |
| 3                              | 50Ω Terminator       | SHX          | TF2-3G-A              | 8122901    | Mar. 11, 2019    |
| 4                              | TWO-LINE V-NETWORK   | R&S          | ENV216                | 101447     | Mar. 11, 2019    |
| 5                              | Measurement Software | Farad        | EZ-EMC Ver.NB-03A1-01 | N/A        | N/A              |
| 6                              | Cable                | N/A          | RG223                 | 12m        | Mar. 23, 2019    |

| Radiated Emission Measurement-9 kHz TO 30 MHz |                      |              |                       |            |                  |
|-----------------------------------------------|----------------------|--------------|-----------------------|------------|------------------|
| Item                                          | Kind of Equipment    | Manufacturer | Type No.              | Serial No. | Calibrated until |
| 1                                             | Loop Antenna         | EM           | EM-6876-1             | 230        | Feb. 07, 2019    |
| 2                                             | Cable                | N/A          | RG 213/U              | C-102      | Jun. 01, 2019    |
| 3                                             | EMI Test Receiver    | R&S          | ESCI                  | 100382     | Mar. 11, 2019    |
| 4                                             | Measurement Software | Farad        | EZ-EMC Ver.NB-03A1-01 | N/A        | N/A              |

| Radiated Emission Measurement-30 MHz TO 1000 MHz |                      |              |                             |             |                  |
|--------------------------------------------------|----------------------|--------------|-----------------------------|-------------|------------------|
| Item                                             | Kind of Equipment    | Manufacturer | Type No.                    | Serial No.  | Calibrated until |
| 1                                                | Antenna              | Schwarbeck   | VULB9160                    | 9160-3232   | Mar. 11, 2019    |
| 2                                                | Amplifier            | HP           | 8447D                       | 2944A09673  | Aug. 11, 2019    |
| 3                                                | Receiver             | Agilent      | N9038A                      | MY52130039  | Aug. 11, 2019    |
| 4                                                | Cable                | emci         | LMR-400(30MHz-1 GHz)(8m+5m) | N/A         | May 25, 2019     |
| 5                                                | Controller           | CT           | SC100                       | N/A         | N/A              |
| 6                                                | Controller           | MF           | MF-7802                     | MF780208416 | N/A              |
| 7                                                | Measurement Software | Farad        | EZ-EMC Ver.NB-03A1-01       | N/A         | N/A              |

### Radiated Emission Measurement - Above 1GHz

| Item | Kind of Equipment                   | Manufacturer   | Type No.              | Serial No.    | Calibrated until |
|------|-------------------------------------|----------------|-----------------------|---------------|------------------|
| 1    | Double Ridged Guide Antenna         | ETS            | 3115                  | 75789         | Mar. 11, 2019    |
| 2    | Broad-Band Horn Antenna             | Schwarzbeck    | BBHA 9170             | 9170319       | Jun. 30, 2019    |
| 3    | Amplifier                           | Agilent        | 8449B                 | 3008A02274    | Mar. 11, 2019    |
| 4    | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045            | 980039 & HA01 | Mar. 11, 2019    |
| 5    | Receiver                            | Agilent        | N9038A                | MY52130039    | Aug. 11, 2019    |
| 6    | Controller                          | CT             | SC100                 | N/A           | N/A              |
| 7    | Controller                          | MF             | MF-7802               | MF780208416   | N/A              |
| 8    | Cable                               | mitron         | B10-01-01-12M         | 18072744      | Jul. 30, 2019    |
| 9    | Measurement Software                | Farad          | EZ-EMC Ver.NB-03A1-01 | N/A           | N/A              |

### 6 dB Bandwidth

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP40    | 100185     | Aug. 11, 2019    |

### Maximum output power

| Item | Kind of Equipment  | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|--------------------|--------------|----------|------------|------------------|
| 1    | Power Meter        | ANRITSU      | ML2495A  | 1128009    | Mar. 11, 2019    |
| 2    | Pulse Power Sensor | ANRITSU      | MA 2411B | 1027500    | Mar. 11, 2019    |

### Antenna Conducted Spurious Emission

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP40    | 100185     | Aug. 11, 2019    |

### Power Spectral Density

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1    | Spectrum Analyzer | R&S          | FSP40    | 100185     | Aug. 11, 2019    |

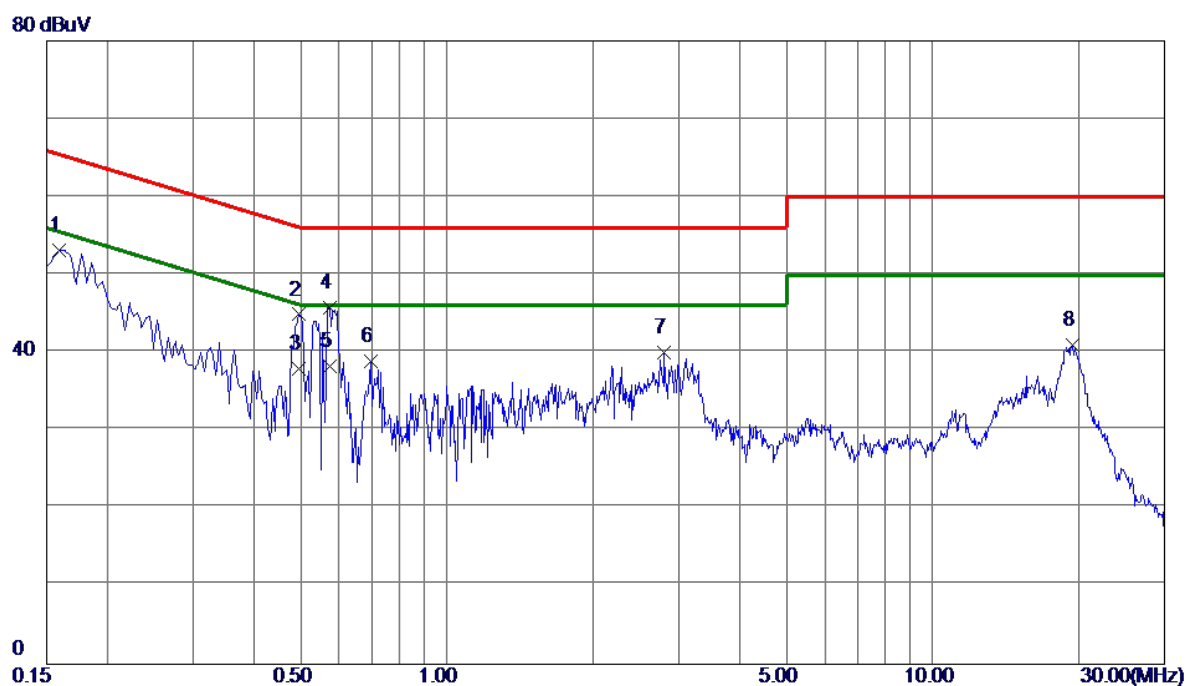
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

## APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode

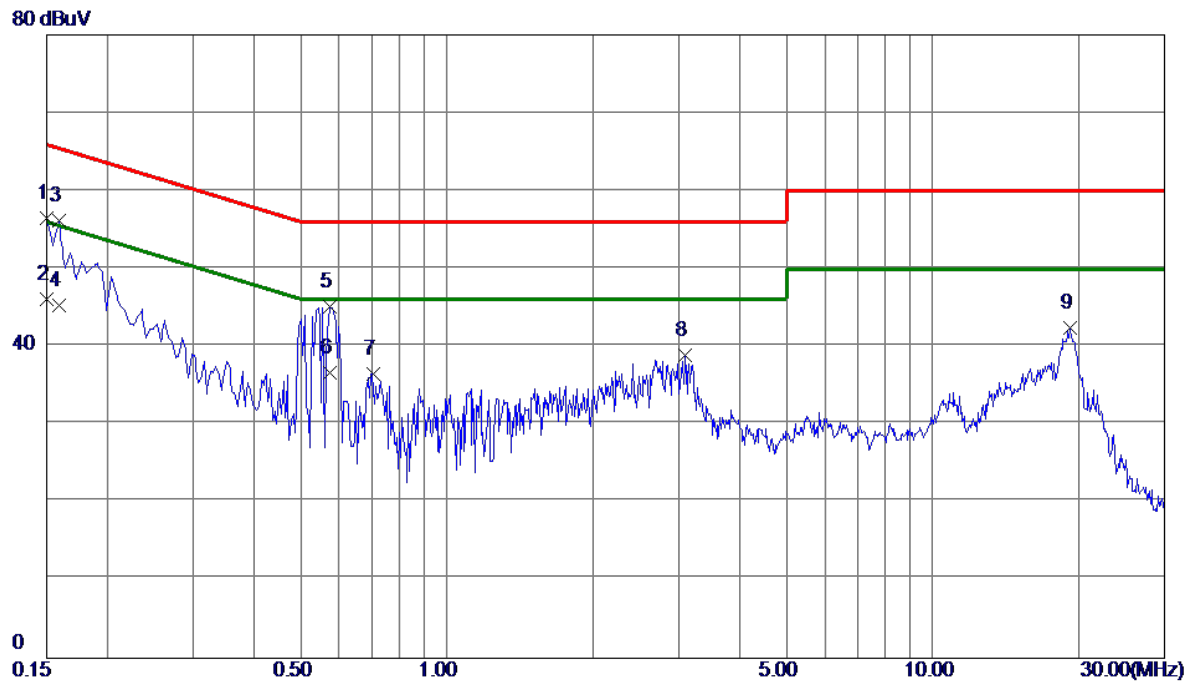
# Line



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1   | 0.1590       | 43.23                    | 9.82                    | 53.05                   | 65.52         | -12.47       | Peak     |         |
| 2   | 0.4965       | 35.09                    | 9.79                    | 44.88                   | 56.06         | -11.18       | Peak     |         |
| 3   | 0.4965       | 28.20                    | 9.79                    | 37.99                   | 46.06         | -8.07        | AVG      |         |
| 4   | 0.5730       | 35.98                    | 9.82                    | 45.80                   | 56.00         | -10.20       | Peak     |         |
| 5 * | 0.5730       | 28.40                    | 9.82                    | 38.22                   | 46.00         | -7.78        | AVG      |         |
| 6   | 0.6990       | 29.03                    | 9.87                    | 38.90                   | 56.00         | -17.10       | Peak     |         |
| 7   | 2.8005       | 29.89                    | 10.04                   | 39.93                   | 56.00         | -16.07       | Peak     |         |
| 8   | 19.3785      | 29.81                    | 11.14                   | 40.95                   | 60.00         | -19.05       | Peak     |         |

Test Mode: TX Mode

### Neutral

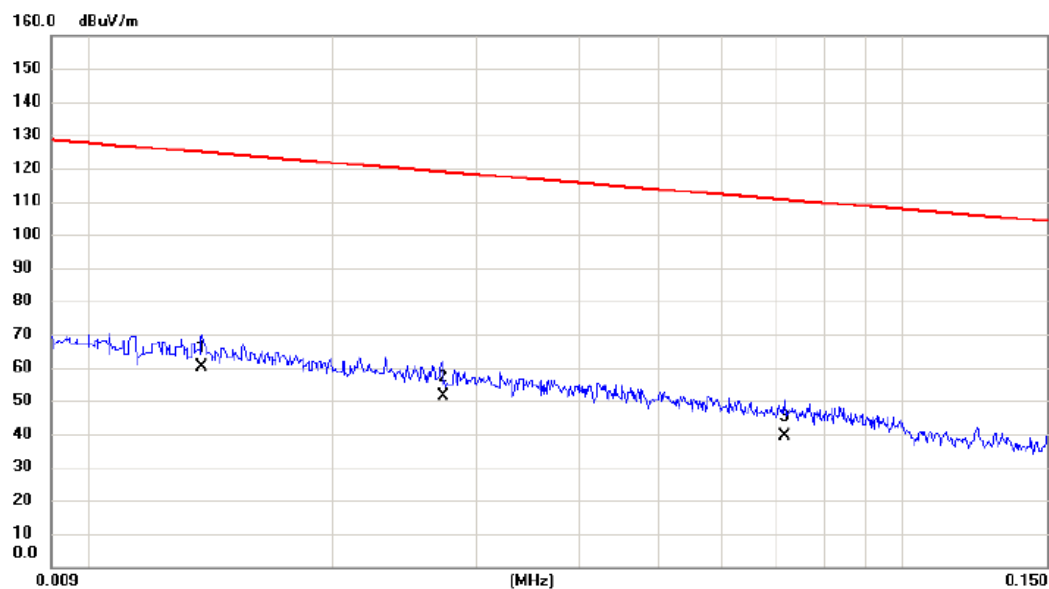


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|--------------|--------------------------|-------------------------|-------------------------|---------------|--------------|----------|---------|
| 1   | 0.1500       | 46.57                    | 9.91                    | 56.48                   | 66.00         | -9.52        | Peak     |         |
| 2   | 0.1500       | 36.20                    | 9.91                    | 46.11                   | 56.00         | -9.89        | AVG      |         |
| 3   | 0.1590       | 46.26                    | 9.91                    | 56.17                   | 65.52         | -9.35        | Peak     |         |
| 4   | 0.1590       | 35.30                    | 9.91                    | 45.21                   | 55.52         | -10.31       | AVG      |         |
| 5   | 0.5730       | 35.09                    | 9.97                    | 45.06                   | 56.00         | -10.94       | Peak     |         |
| 6 * | 0.5730       | 26.70                    | 9.97                    | 36.67                   | 46.00         | -9.33        | AVG      |         |
| 7   | 0.7035       | 26.46                    | 10.04                   | 36.50                   | 56.00         | -19.50       | Peak     |         |
| 8   | 3.0975       | 28.59                    | 10.25                   | 38.84                   | 56.00         | -17.16       | Peak     |         |
| 9   | 19.1715      | 30.94                    | 11.42                   | 42.36                   | 60.00         | -17.64       | Peak     |         |

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

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

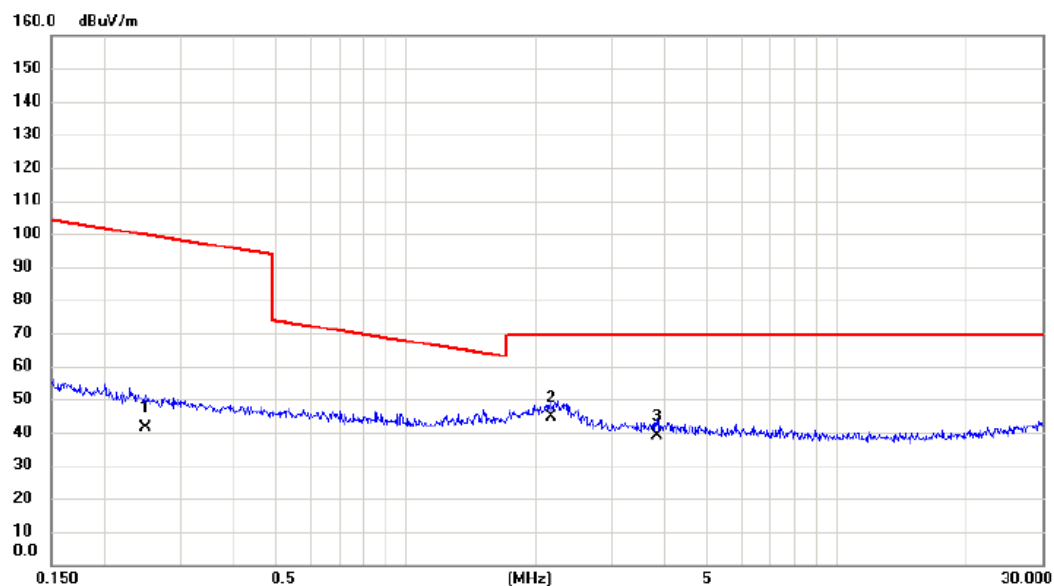
Ant 0°



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 0.0138 | 39.20         | 20.89          | 60.09       | 124.81 | -64.72 | AVG      |         |
| 2   |     | 0.0273 | 31.60         | 19.90          | 51.50       | 118.88 | -67.38 | AVG      |         |
| 3   |     | 0.0716 | 20.20         | 19.10          | 39.30       | 110.51 | -71.21 | AVG      |         |

Test Mode: TX Mode

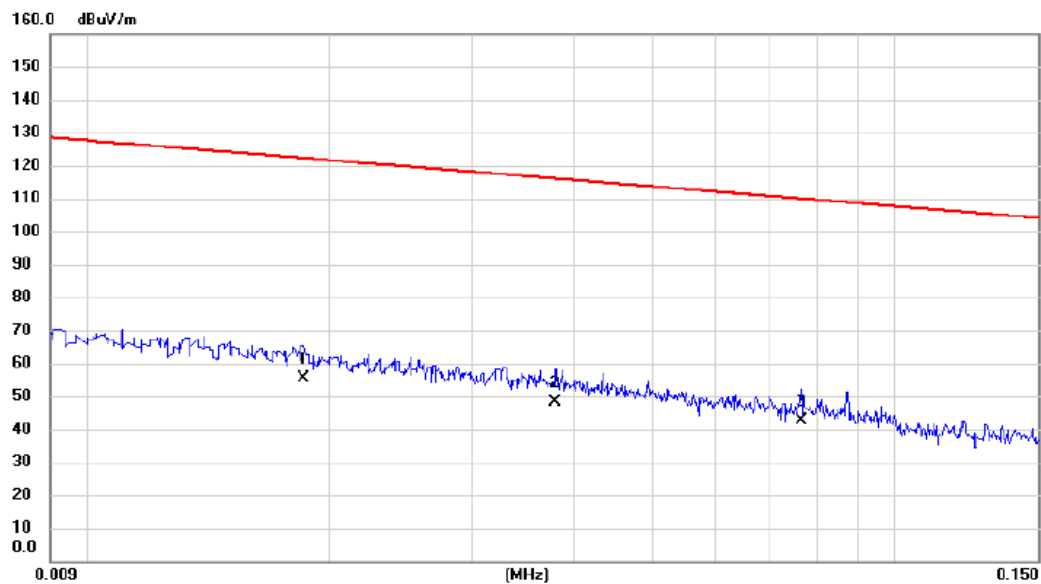
Ant 0°



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   |     | 0.2481 | 24.30         | 17.06          | 41.36       | 99.71  | -58.35 | AVG      |         |
| 2   | *   | 2.1783 | 27.50         | 17.00          | 44.50       | 69.54  | -25.04 | QP       |         |
| 3   |     | 3.8196 | 23.30         | 15.89          | 39.19       | 69.54  | -30.35 | QP       |         |

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

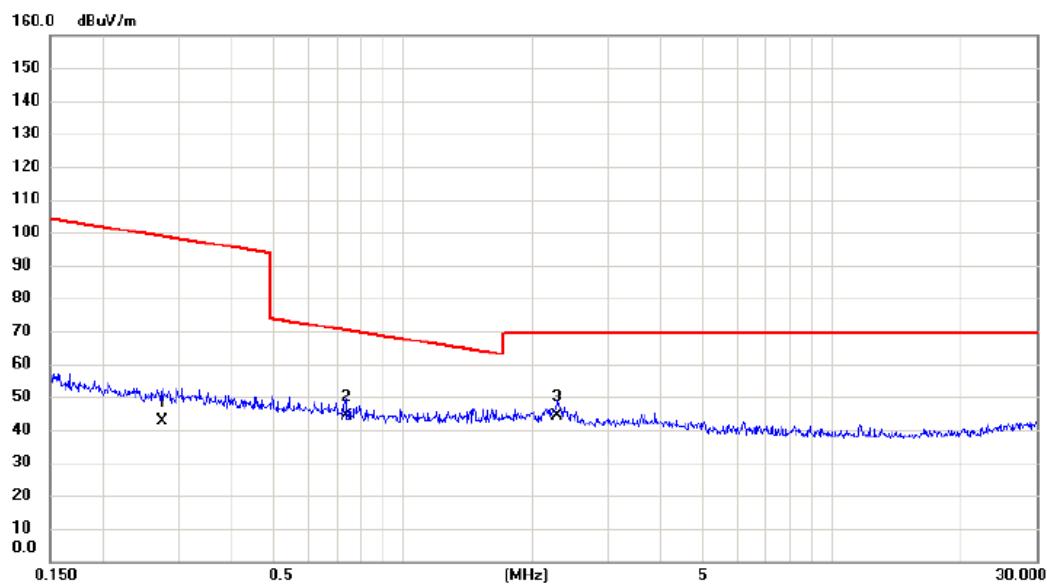
Ant 90°



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit  | Margin |          |         |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector | Comment |
| 1   | *   | 0.0185 | 35.30         | 20.23          | 55.53       | 122.26 | -66.73 | AVG      |         |
| 2   |     | 0.0380 | 28.40         | 19.72          | 48.12       | 116.01 | -67.89 | AVG      |         |
| 3   |     | 0.0766 | 23.50         | 18.99          | 42.49       | 109.92 | -67.43 | AVG      |         |

Test Mode: TX Mode

Ant 90°



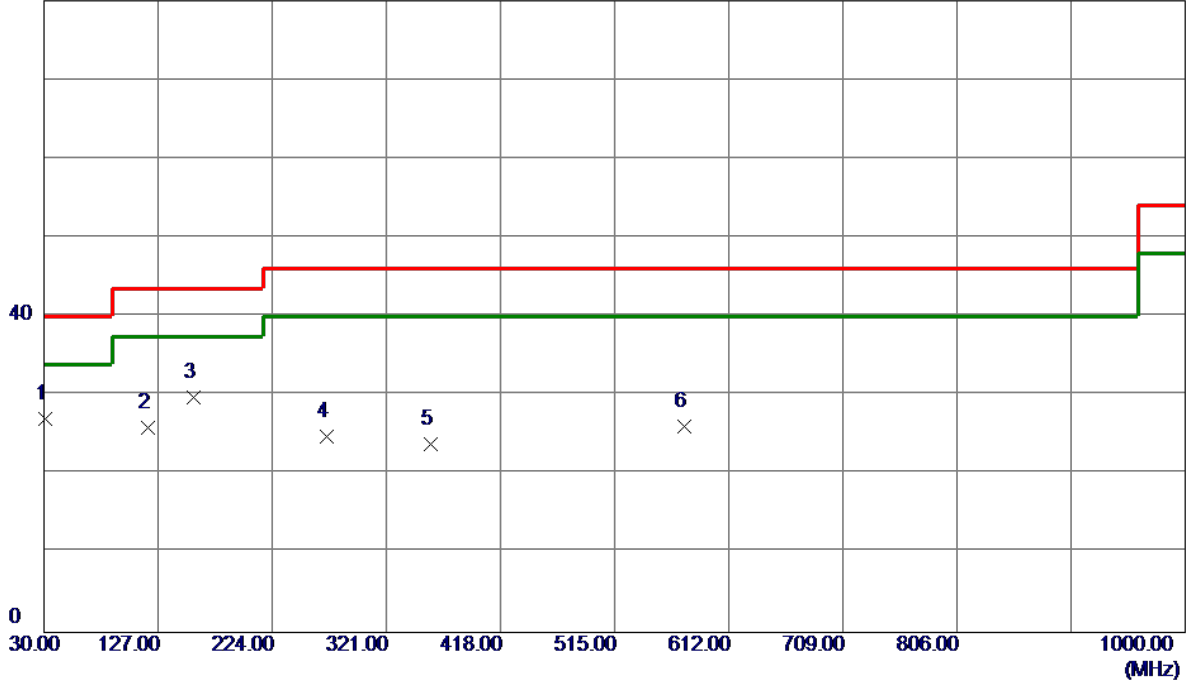
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1   |     | 0.2744       | 25.60                    | 17.05                   | 42.65                      | 98.84           | -56.19       | AVG      |         |
| 2   |     | 0.7391       | 27.40                    | 16.88                   | 44.28                      | 70.23           | -25.95       | QP       |         |
| 3   | *   | 2.2847       | 27.30                    | 16.95                   | 44.25                      | 69.54           | -25.29       | QP       |         |

## APPENDIX C - RADIATED EMISSION (30 MHZ TO 1000 MHZ)

Test Mode: TX B Mode Channel 01

Vertical

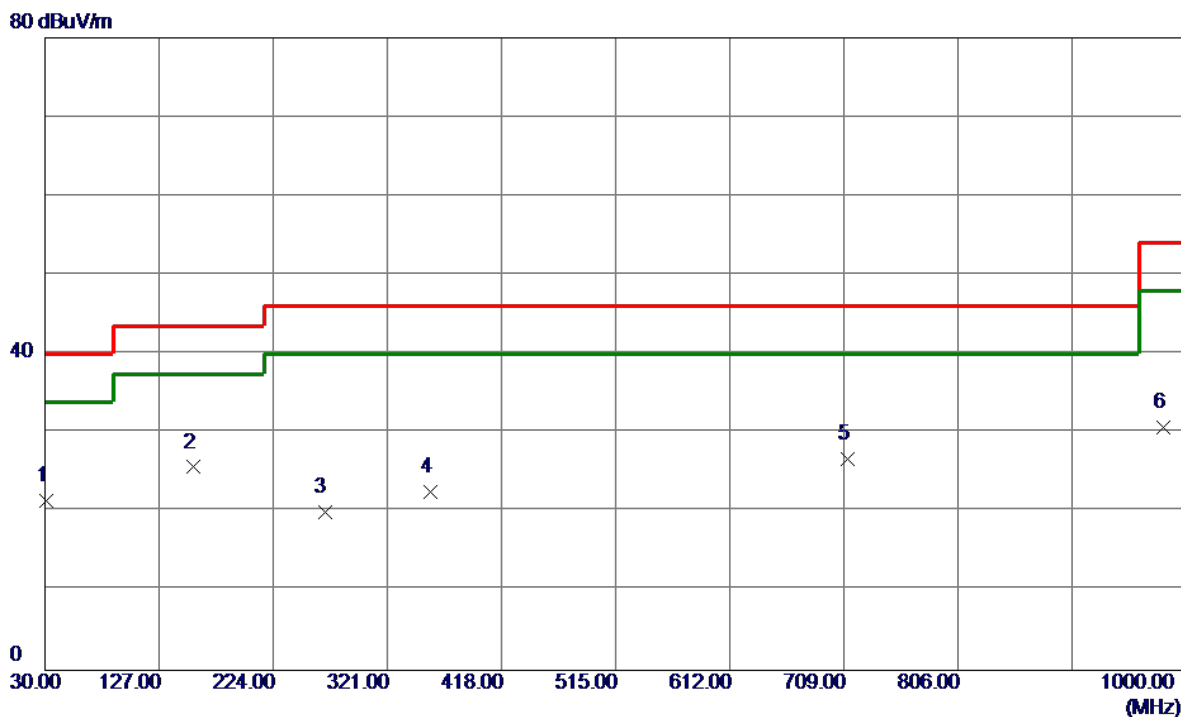
80 dBuV/m



| 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 * | 31.4550      | 42.11                      | -15.02                  | 27.09                     | 40.00           | -12.91       | Peak     |         |
| 2   | 118.7550     | 40.87                      | -14.88                  | 25.99                     | 43.50           | -17.51       | Peak     |         |
| 3   | 157.0700     | 40.55                      | -10.86                  | 29.69                     | 43.50           | -13.81       | Peak     |         |
| 4   | 270.5600     | 37.28                      | -12.46                  | 24.82                     | 46.00           | -21.18       | Peak     |         |
| 5   | 358.3450     | 34.66                      | -10.79                  | 23.87                     | 46.00           | -22.13       | Peak     |         |
| 6   | 574.6550     | 31.90                      | -5.88                   | 26.02                     | 46.00           | -19.98       | Peak     |         |

Test Mode: TX B Mode Channel 01

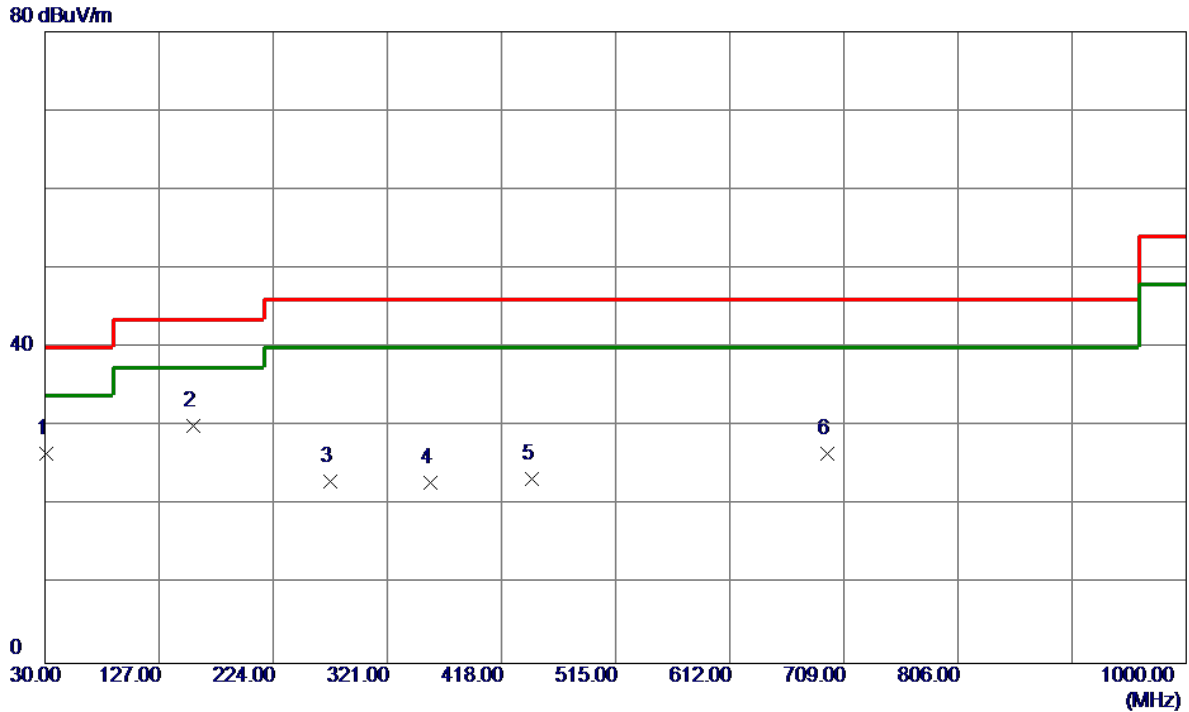
### Horizontal



| 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   | 31.4550      | 36.49                      | -15.02                  | 21.47                     | 40.00           | -18.53       | Peak     |         |
| 2 * | 156.5850     | 36.58                      | -10.90                  | 25.68                     | 43.50           | -17.82       | Peak     |         |
| 3   | 267.6500     | 32.72                      | -12.75                  | 19.97                     | 46.00           | -26.03       | Peak     |         |
| 4   | 357.8599     | 33.40                      | -10.81                  | 22.59                     | 46.00           | -23.41       | Peak     |         |
| 5   | 712.3950     | 29.80                      | -3.07                   | 26.73                     | 46.00           | -19.27       | Peak     |         |
| 6   | 980.1150     | 30.04                      | 0.69                    | 30.73                     | 54.00           | -23.27       | Peak     |         |

Test Mode: TX B Mode Channel 06

Vertical

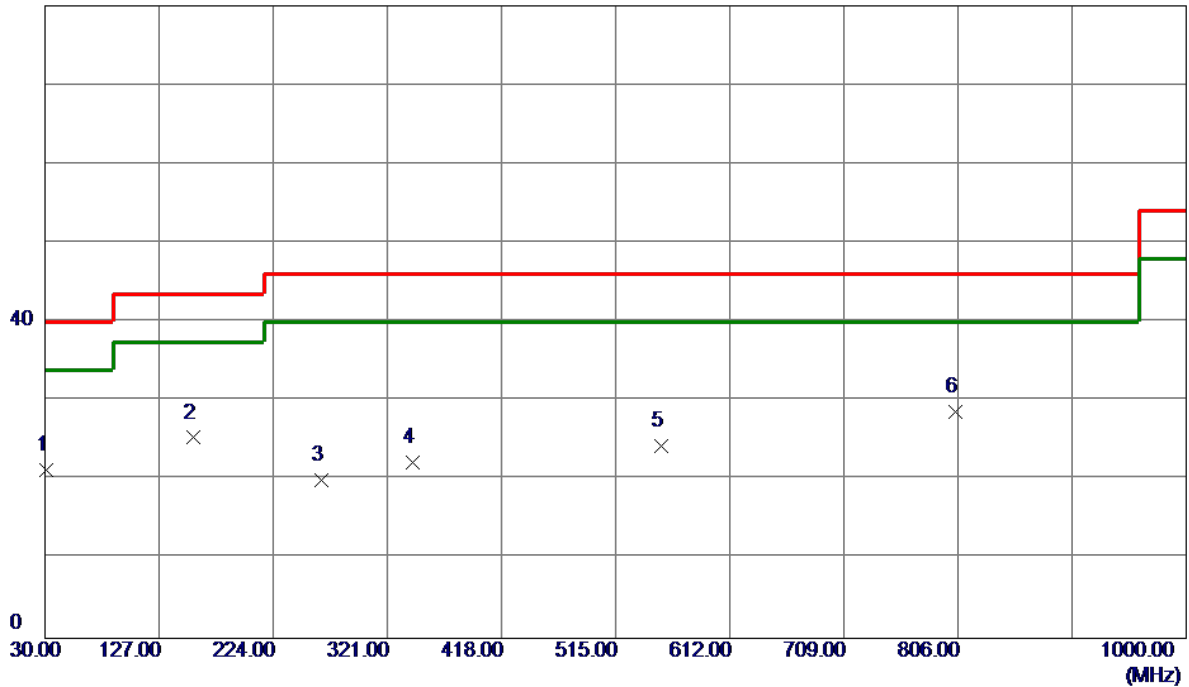


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 31.4550      | 41.65                      | -15.02                  | 26.63                     | 40.00           | -13.37       | Peak     |         |
| 2   | 155.6150     | 41.12                      | -10.99                  | 30.13                     | 43.50           | -13.37       | Peak     |         |
| 3   | 272.0150     | 35.25                      | -12.28                  | 22.97                     | 46.00           | -23.03       | Peak     |         |
| 4   | 357.8599     | 33.63                      | -10.81                  | 22.82                     | 46.00           | -23.18       | Peak     |         |
| 5   | 443.7050     | 30.94                      | -7.65                   | 23.29                     | 46.00           | -22.71       | Peak     |         |
| 6   | 695.4200     | 29.60                      | -2.97                   | 26.63                     | 46.00           | -19.37       | Peak     |         |

Test Mode: TX B Mode Channel 06

### Horizontal

80 dBuV/m

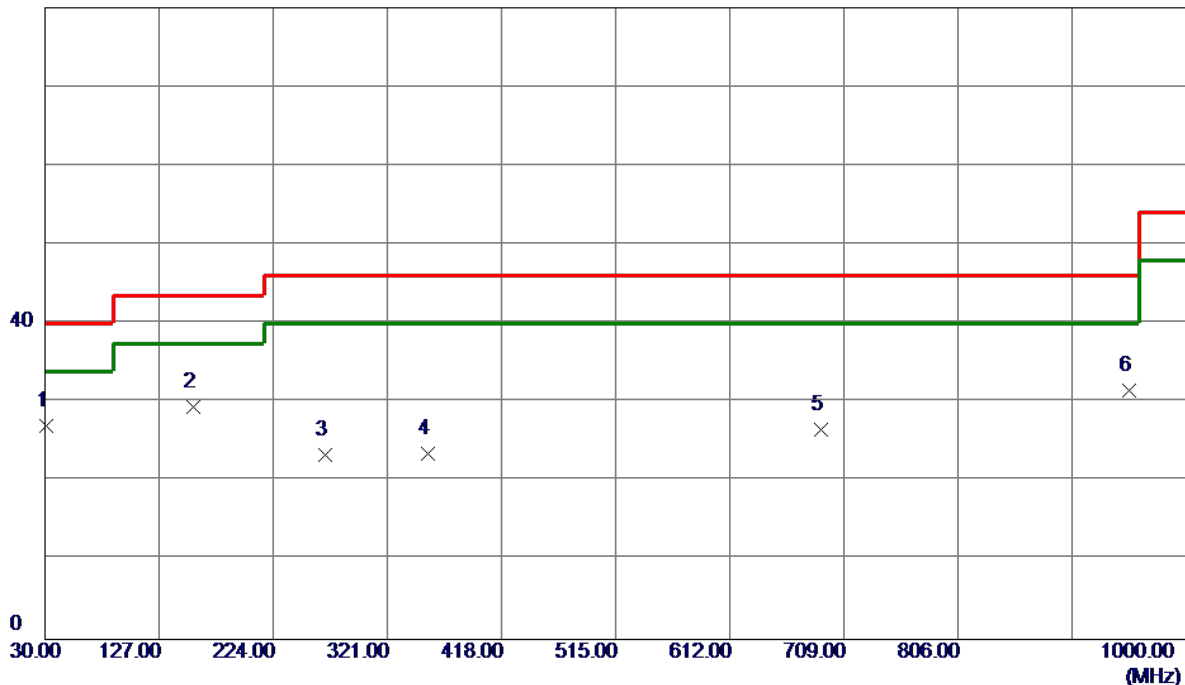


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 31.4550      | 36.25                      | -15.02                  | 21.23                     | 40.00           | -18.77       | Peak     |         |
| 2   | 156.5850     | 36.26                      | -10.90                  | 25.36                     | 43.50           | -18.14       | Peak     |         |
| 3   | 264.7400     | 32.97                      | -13.04                  | 19.93                     | 46.00           | -26.07       | Peak     |         |
| 4   | 342.3400     | 33.18                      | -10.97                  | 22.21                     | 46.00           | -23.79       | Peak     |         |
| 5   | 554.2849     | 29.84                      | -5.54                   | 24.30                     | 46.00           | -21.70       | Peak     |         |
| 6 * | 803.5750     | 29.73                      | -1.10                   | 28.63                     | 46.00           | -17.37       | Peak     |         |

Test Mode: TX B Mode Channel 11

Vertical

80 dBuV/m

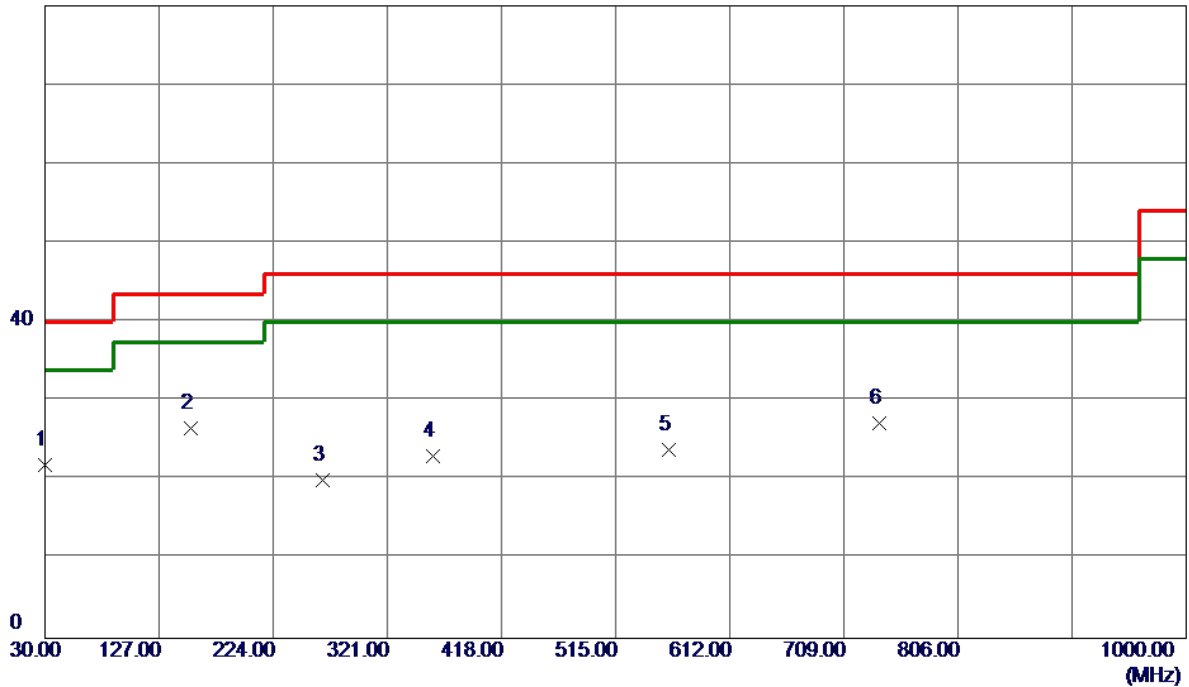


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 31.4550      | 42.13                      | -15.02                  | 27.11                     | 40.00           | -12.89       | Peak     |         |
| 2   | 156.5850     | 40.30                      | -10.90                  | 29.40                     | 43.50           | -14.10       | Peak     |         |
| 3   | 268.6200     | 36.04                      | -12.66                  | 23.38                     | 46.00           | -22.62       | Peak     |         |
| 4   | 355.9200     | 34.44                      | -10.88                  | 23.56                     | 46.00           | -22.44       | Peak     |         |
| 5   | 689.6000     | 29.88                      | -3.25                   | 26.63                     | 46.00           | -19.37       | Peak     |         |
| 6   | 951.9850     | 30.13                      | 1.36                    | 31.49                     | 46.00           | -14.51       | Peak     |         |

Test Mode: TX B Mode Channel 11

### Horizontal

80 dBuV/m



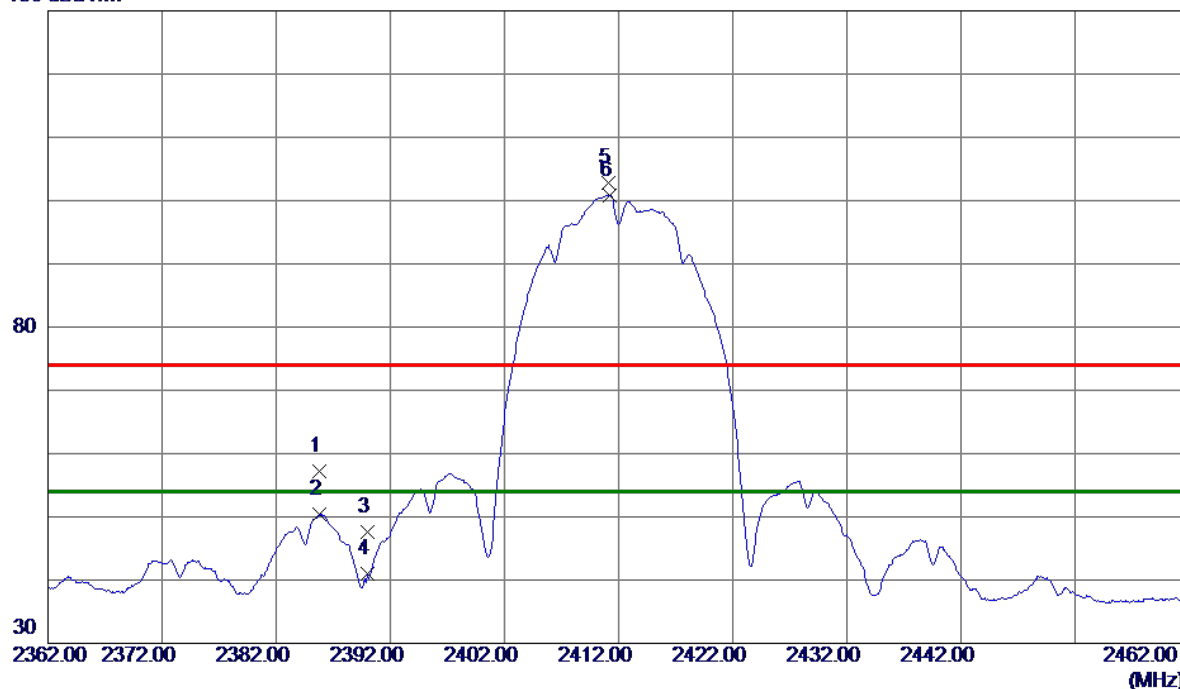
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 30.0000      | 36.91                      | -14.97                  | 21.94                     | 40.00           | -18.06       | Peak     |         |
| 2 * | 154.1600     | 37.66                      | -11.12                  | 26.54                     | 43.50           | -16.96       | Peak     |         |
| 3   | 265.7100     | 32.94                      | -12.94                  | 20.00                     | 46.00           | -26.00       | Peak     |         |
| 4   | 360.2850     | 33.81                      | -10.73                  | 23.08                     | 46.00           | -22.92       | Peak     |         |
| 5   | 560.1050     | 29.45                      | -5.63                   | 23.82                     | 46.00           | -22.18       | Peak     |         |
| 6   | 739.0700     | 31.02                      | -3.76                   | 27.26                     | 46.00           | -18.74       | Peak     |         |

## APPENDIX D - RADIATED EMISSION (ABOVE 1000 MHZ)

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2412 MHz |

# Vertical

130 dBuV/m

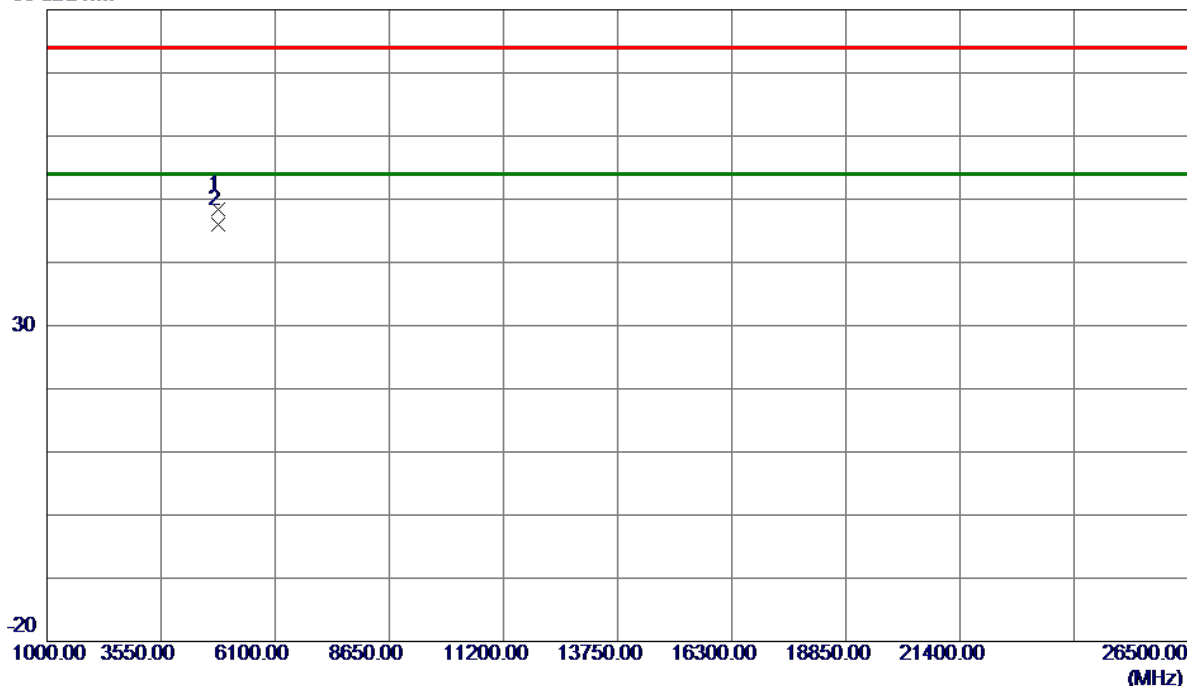


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2385.8000    | 50.66                      | 6.62                    | 57.28                     | 74.00           | -16.72       | Peak     |          |
| 2   | 2385.8000    | 43.80                      | 6.62                    | 50.42                     | 54.00           | -3.58        | AVG      |          |
| 3   | 2390.0000    | 40.98                      | 6.62                    | 47.60                     | 74.00           | -26.40       | Peak     |          |
| 4   | 2390.0000    | 34.41                      | 6.62                    | 41.03                     | 54.00           | -12.97       | AVG      |          |
| 5   | 2411.5000    | 96.24                      | 6.62                    | 102.86                    | 74.00           | 28.86        | Peak     | No Limit |
| 6 * | 2411.2000    | 94.27                      | 6.62                    | 100.89                    | 54.00           | 46.89        | AVG      | No Limit |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2412 MHz |

# Vertical

80 dBuV/m

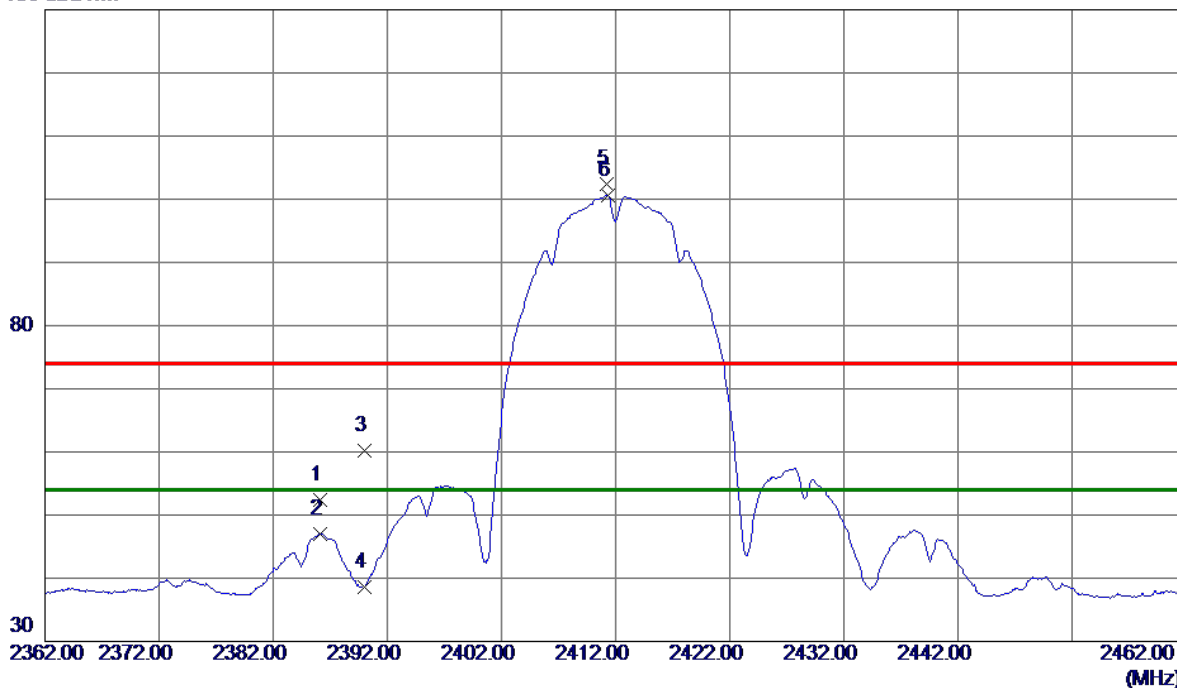


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4823.9300    | 44.90                      | 3.57                    | 48.47                     | 74.00           | -25.53       | Peak     |         |
| 2 * | 4824.0099    | 42.37                      | 3.57                    | 45.94                     | 54.00           | -8.06        | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2412 MHz |

### Horizontal

130 dBuV/m

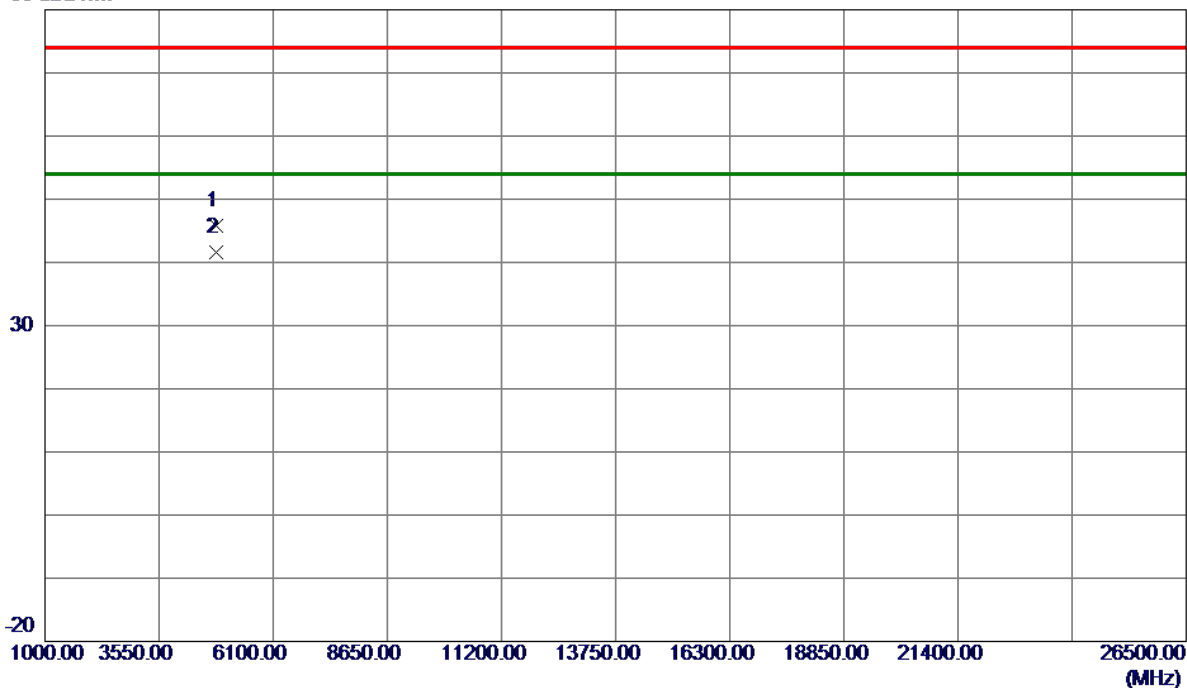


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2386.1500    | 45.72                      | 6.62                    | 52.34                     | 74.00           | -21.66       | Peak     |          |
| 2   | 2386.1500    | 40.44                      | 6.62                    | 47.06                     | 54.00           | -6.94        | AVG      |          |
| 3   | 2390.0000    | 53.62                      | 6.62                    | 60.24                     | 74.00           | -13.76       | Peak     |          |
| 4   | 2390.0000    | 32.04                      | 6.62                    | 38.66                     | 54.00           | -15.34       | AVG      |          |
| 5   | 2411.2000    | 95.81                      | 6.62                    | 102.43                    | 74.00           | 28.43        | Peak     | No Limit |
| 6 * | 2411.3000    | 94.04                      | 6.62                    | 100.66                    | 54.00           | 46.66        | AVG      | No Limit |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2412 MHz |

### Horizontal

80 dBuV/m

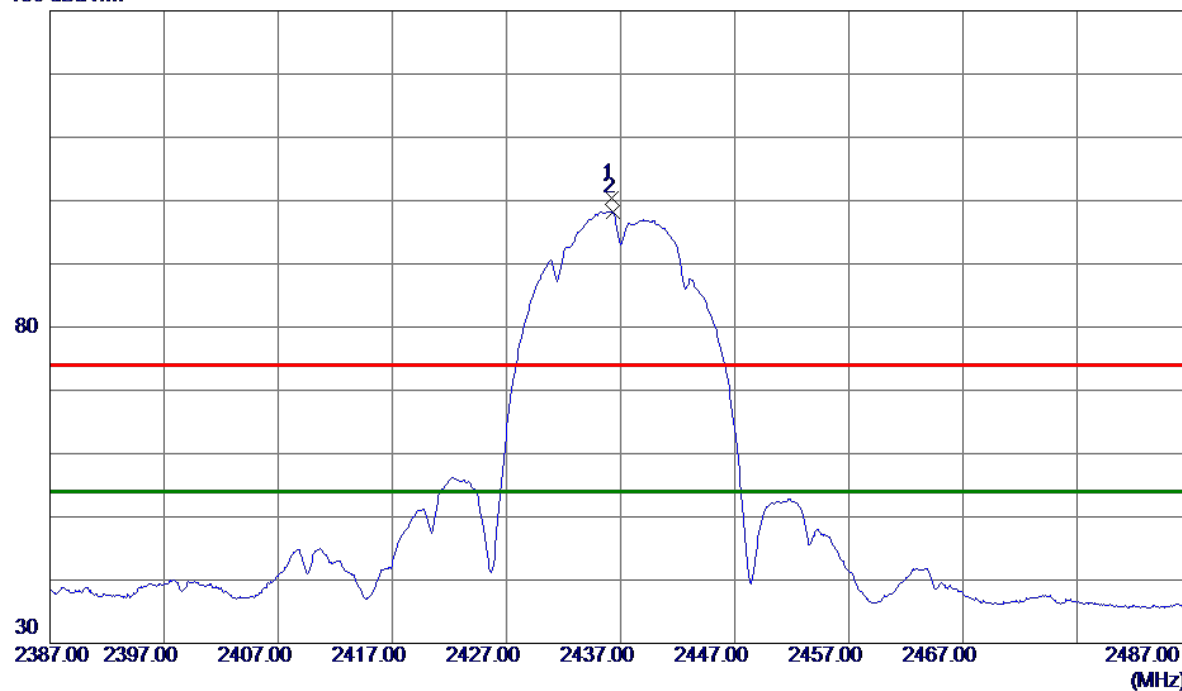


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4823.9100    | 42.31                      | 3.57                    | 45.88                     | 74.00           | -28.12       | Peak     |         |
| 2 * | 4823.9600    | 38.07                      | 3.57                    | 41.64                     | 54.00           | -12.36       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2437 MHz |

# Vertical

130 dBuV/m

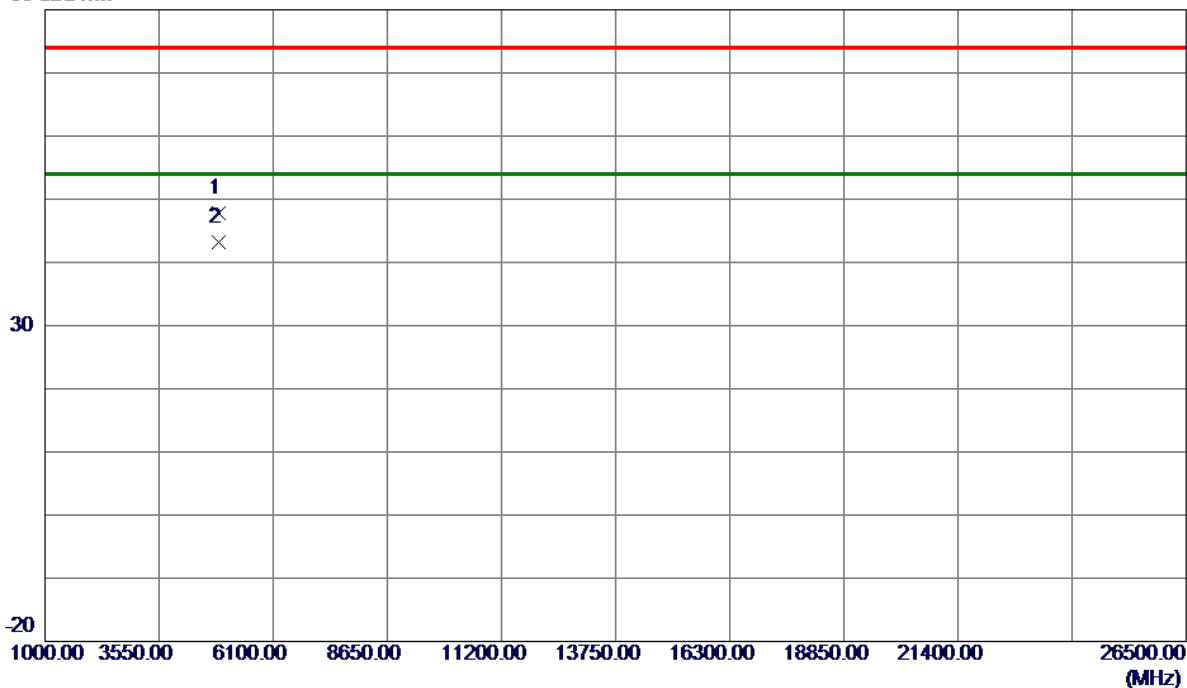


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2436.2000    | 93.86                      | 6.61                    | 100.47                    | 74.00           | 26.47        | Peak     | No Limit |
| 2 * | 2436.3000    | 91.60                      | 6.61                    | 98.21                     | 54.00           | 44.21        | AVG      | No Limit |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2437 MHz |

### Vertical

80 dBuV/m

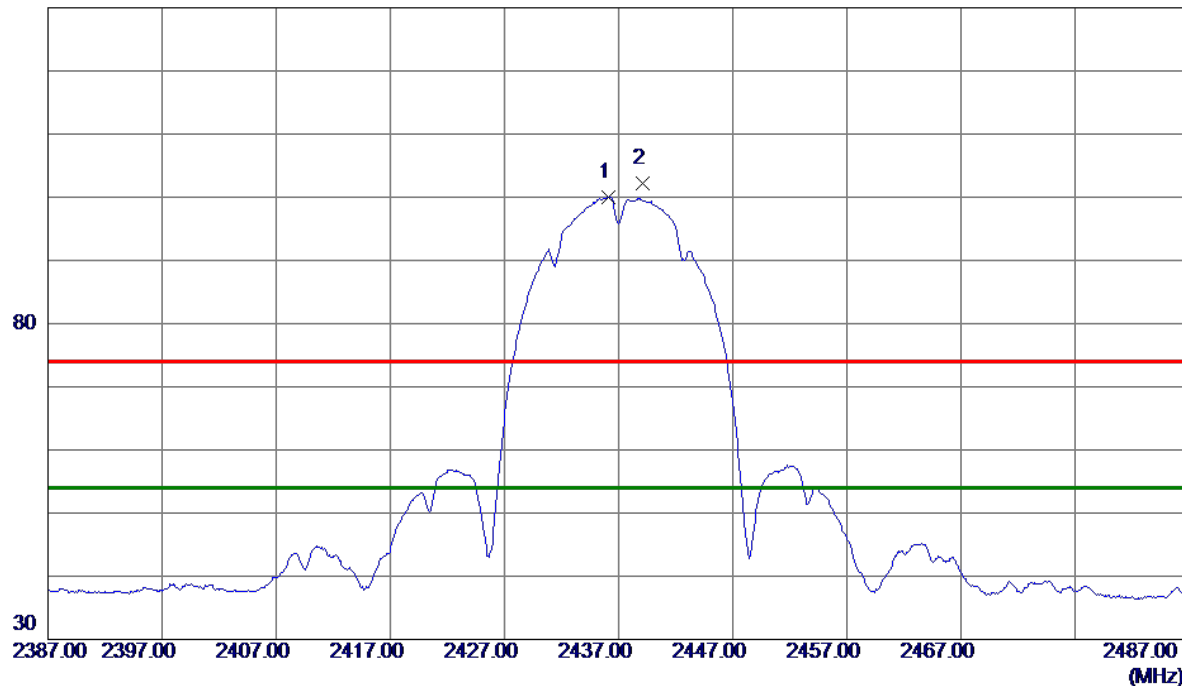


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4873.9350    | 44.06                      | 3.68                    | 47.74                     | 74.00           | -26.26       | Peak     |         |
| 2 * | 4873.9900    | 39.60                      | 3.68                    | 43.28                     | 54.00           | -10.72       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2437 MHz |

### Horizontal

130 dBuV/m

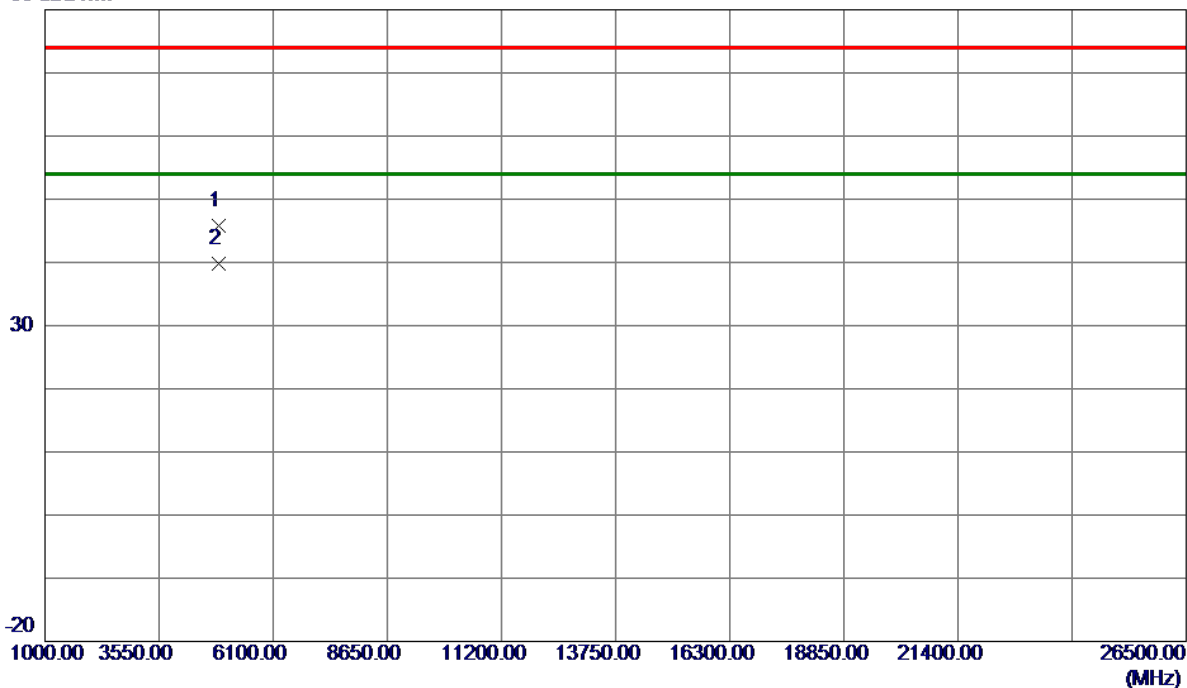


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2436.1500    | 93.48                      | 6.61                    | 100.09                    | 54.00           | 46.09        | AVG      | No Limit |
| 2   | 2439.1000    | 95.58                      | 6.61                    | 102.19                    | 74.00           | 28.19        | Peak     | No Limit |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2437 MHz |

### Horizontal

80 dBuV/m

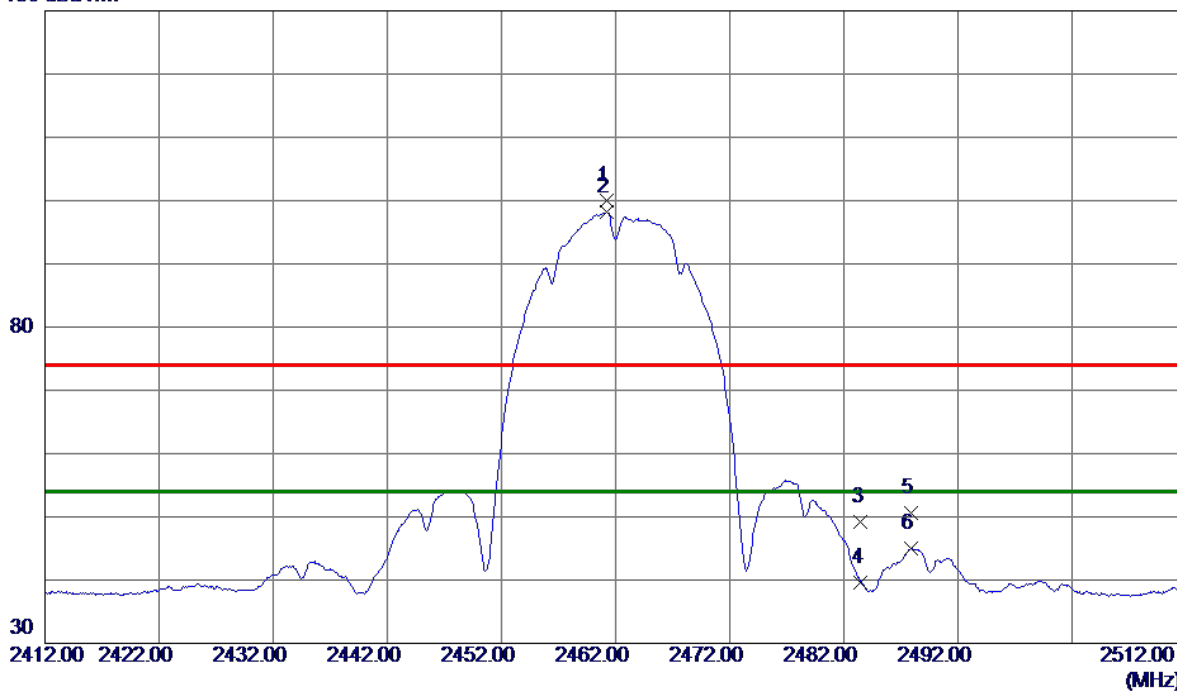


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4873.8700    | 42.21                      | 3.68                    | 45.89                     | 74.00           | -28.11       | Peak     |         |
| 2 * | 4874.0000    | 36.17                      | 3.68                    | 39.85                     | 54.00           | -14.15       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2462 MHz |

Vertical

130 dBuV/m

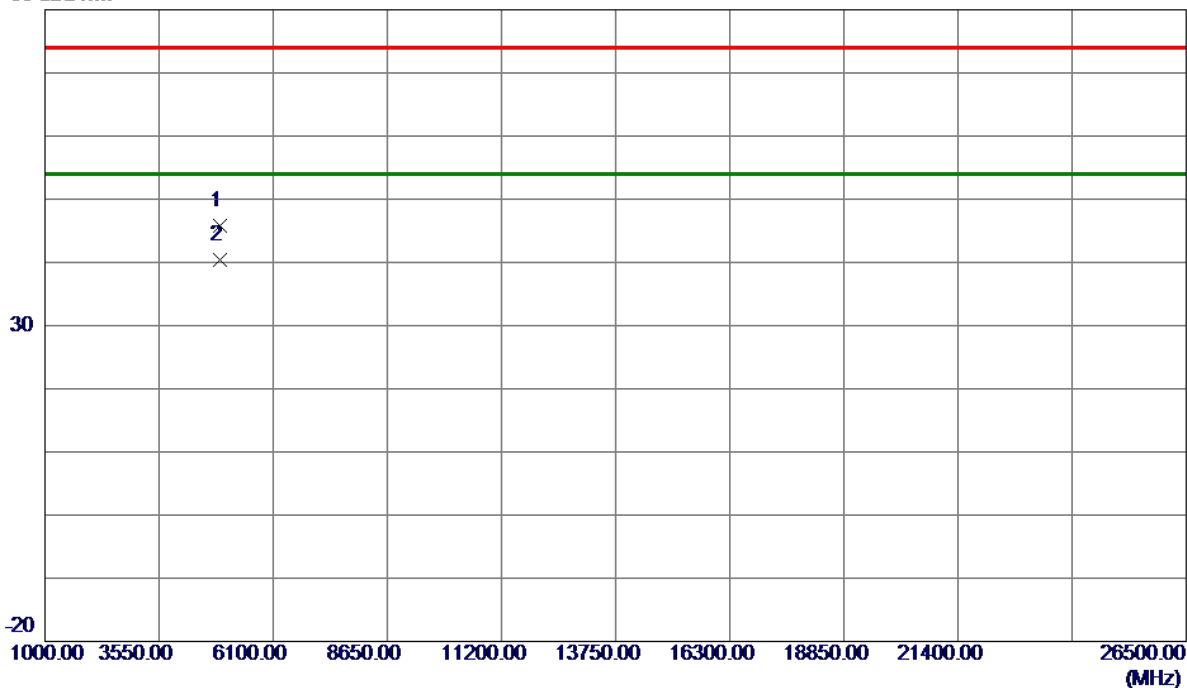


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2461.2000    | 93.48                      | 6.61                    | 100.09                    | 74.00           | 26.09        | Peak     | No Limit |
| 2 * | 2461.2500    | 91.50                      | 6.61                    | 98.11                     | 54.00           | 44.11        | AVG      | No Limit |
| 3   | 2483.5000    | 42.65                      | 6.61                    | 49.26                     | 74.00           | -24.74       | Peak     |          |
| 4   | 2483.5000    | 32.98                      | 6.61                    | 39.59                     | 54.00           | -14.41       | AVG      |          |
| 5   | 2487.8500    | 44.01                      | 6.61                    | 50.62                     | 74.00           | -23.38       | Peak     |          |
| 6   | 2487.8500    | 38.40                      | 6.61                    | 45.01                     | 54.00           | -8.99        | AVG      |          |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2462 MHz |

### Vertical

80 dBuV/m

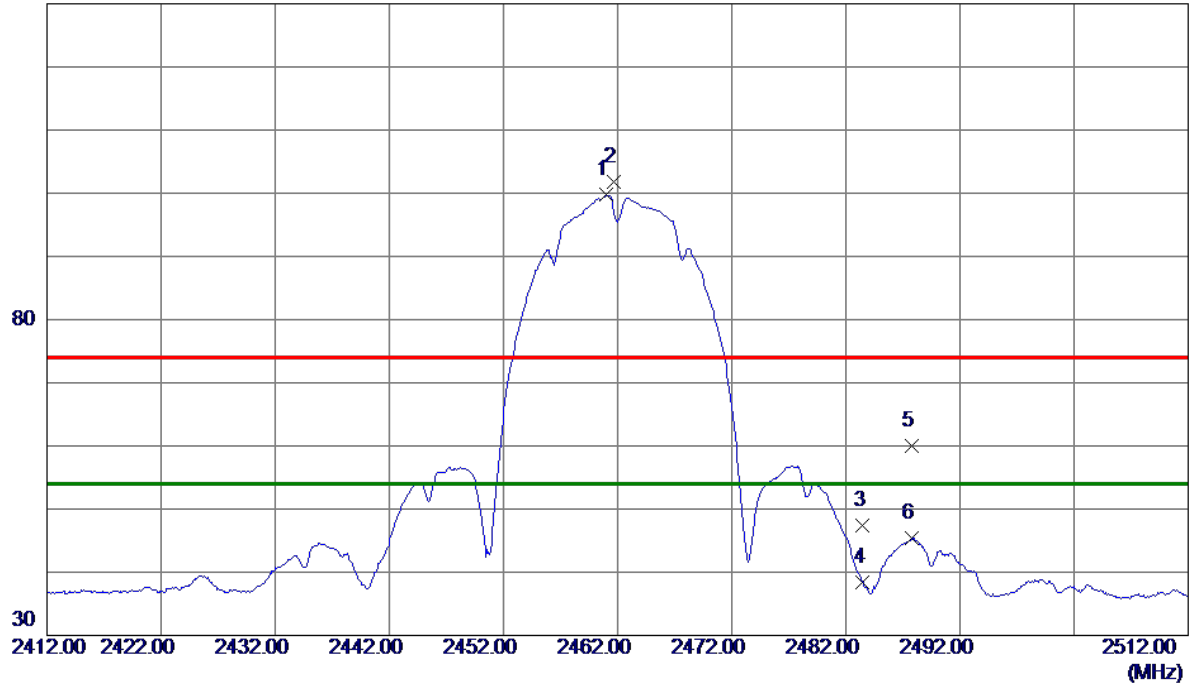


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4923.9650    | 42.01                      | 3.79                    | 45.80                     | 74.00           | -28.20       | Peak     |         |
| 2 * | 4923.9700    | 36.62                      | 3.79                    | 40.41                     | 54.00           | -13.59       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2462 MHz |

### Horizontal

130 dBuV/m

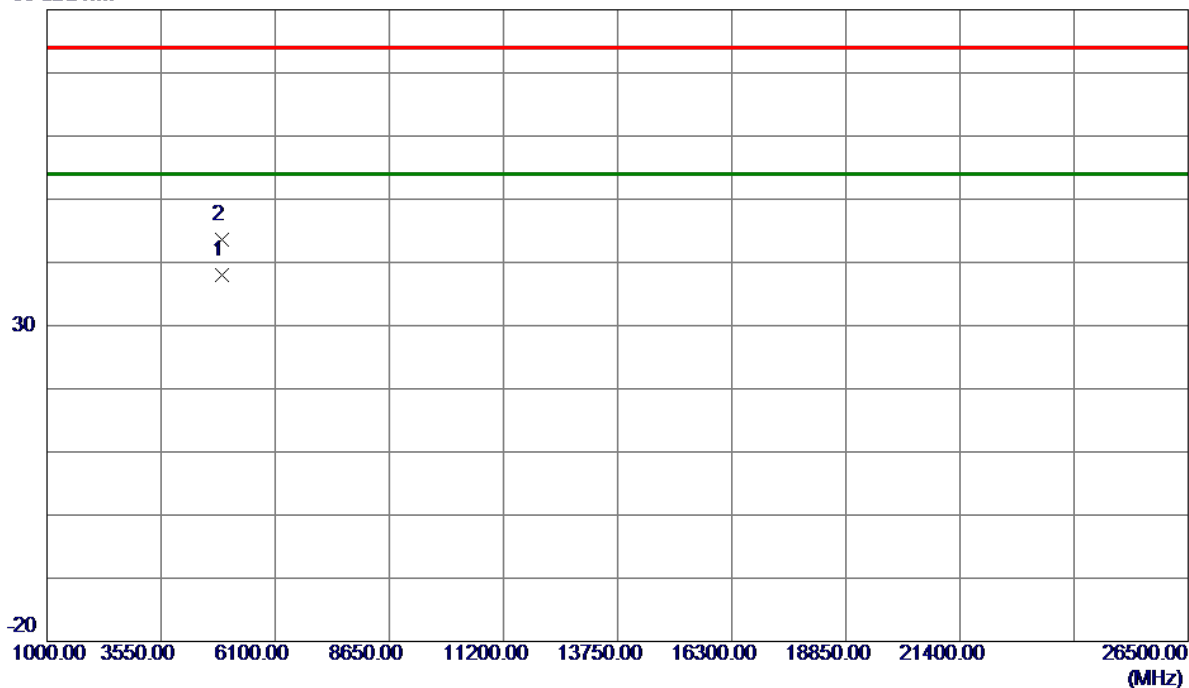


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2460.9500    | 93.11                      | 6.61                    | 99.72                     | 54.00           | 45.72        | AVG      | No Limit |
| 2   | 2461.7000    | 95.25                      | 6.61                    | 101.86                    | 74.00           | 27.86        | Peak     | No Limit |
| 3   | 2483.5000    | 40.81                      | 6.61                    | 47.42                     | 74.00           | -26.58       | Peak     |          |
| 4   | 2483.5000    | 31.86                      | 6.61                    | 38.47                     | 54.00           | -15.53       | AVG      |          |
| 5   | 2487.8000    | 53.32                      | 6.61                    | 59.93                     | 74.00           | -14.07       | Peak     |          |
| 6   | 2487.8000    | 38.76                      | 6.61                    | 45.37                     | 54.00           | -8.63        | AVG      |          |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX B Mode 2462 MHz |

### Horizontal

80 dBuV/m

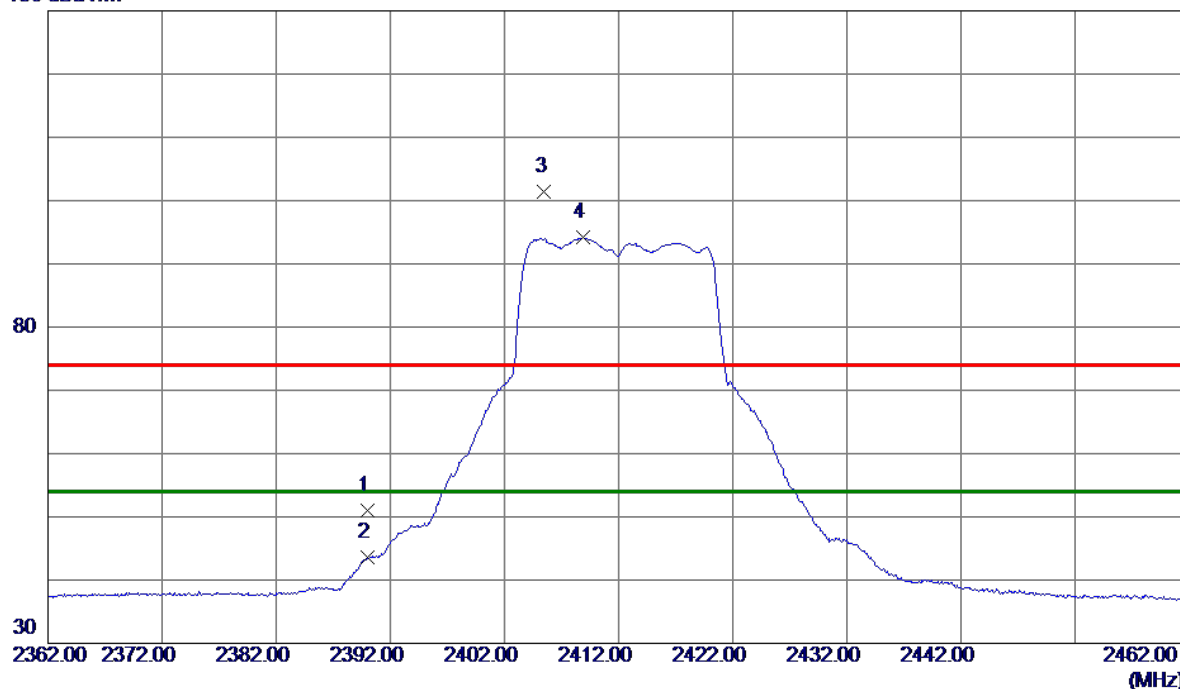


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4924.0400    | 34.21                      | 3.79                    | 38.00                     | 54.00           | -16.00       | AVG      |         |
| 2   | 4924.1150    | 39.90                      | 3.79                    | 43.69                     | 74.00           | -30.31       | Peak     |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2412 MHz |

# Vertical

130 dBuV/m

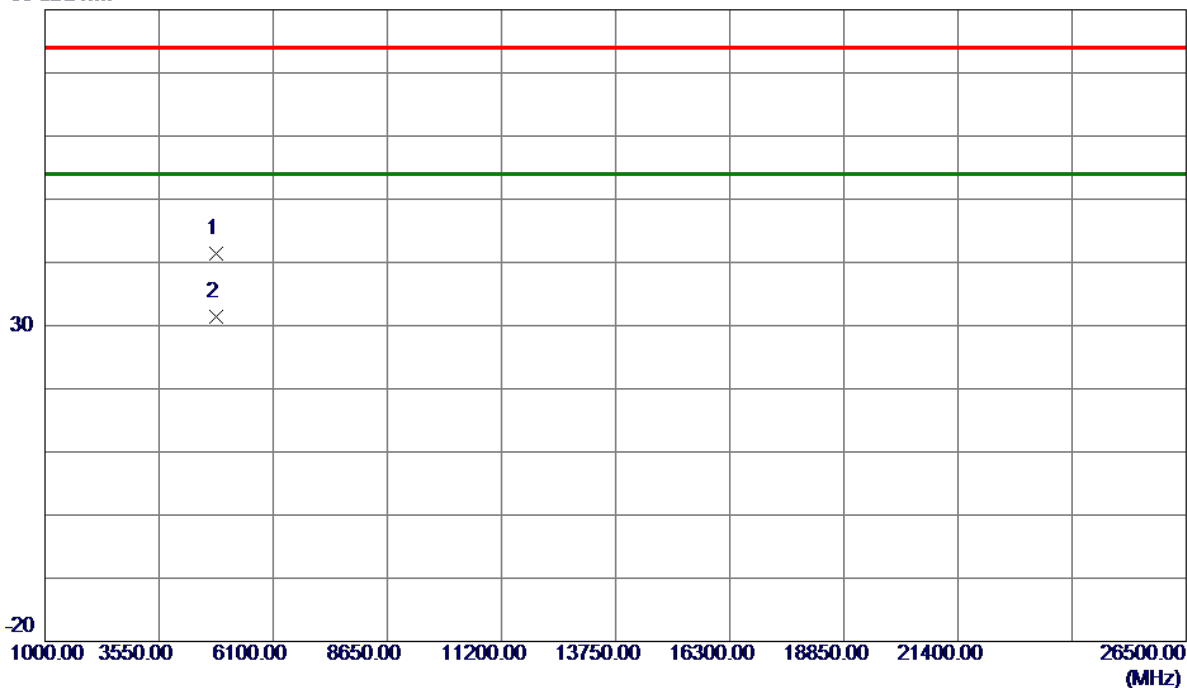


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 44.41                      | 6.62                    | 51.03                     | 74.00           | -22.97       | Peak     |          |
| 2   | 2390.0000    | 36.91                      | 6.62                    | 43.53                     | 54.00           | -10.47       | AVG      |          |
| 3   | 2405.5000    | 94.73                      | 6.62                    | 101.35                    | 74.00           | 27.35        | Peak     | No Limit |
| 4 * | 2408.8500    | 87.50                      | 6.62                    | 94.12                     | 54.00           | 40.12        | AVG      | No Limit |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2412 MHz |

### Vertical

80 dBuV/m

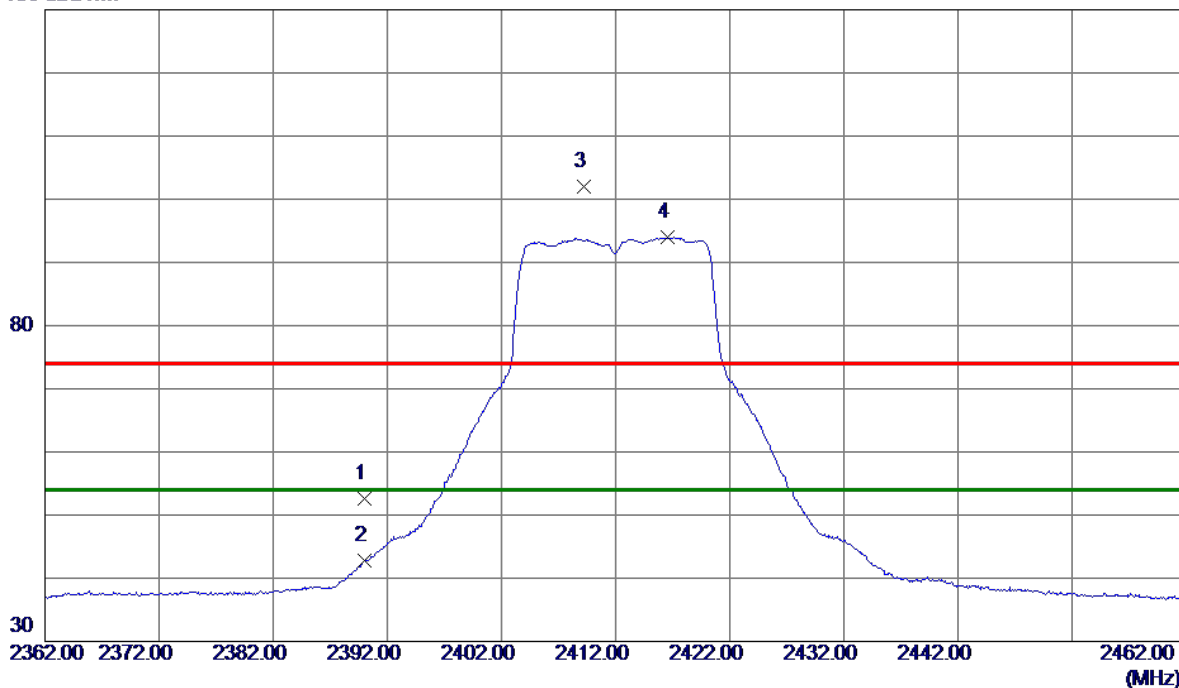


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4821.2500    | 37.76                      | 3.56                    | 41.32                     | 74.00           | -32.68       | Peak     |         |
| 2 * | 4821.6500    | 27.90                      | 3.57                    | 31.47                     | 54.00           | -22.53       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2412 MHz |

### Horizontal

130 dBuV/m

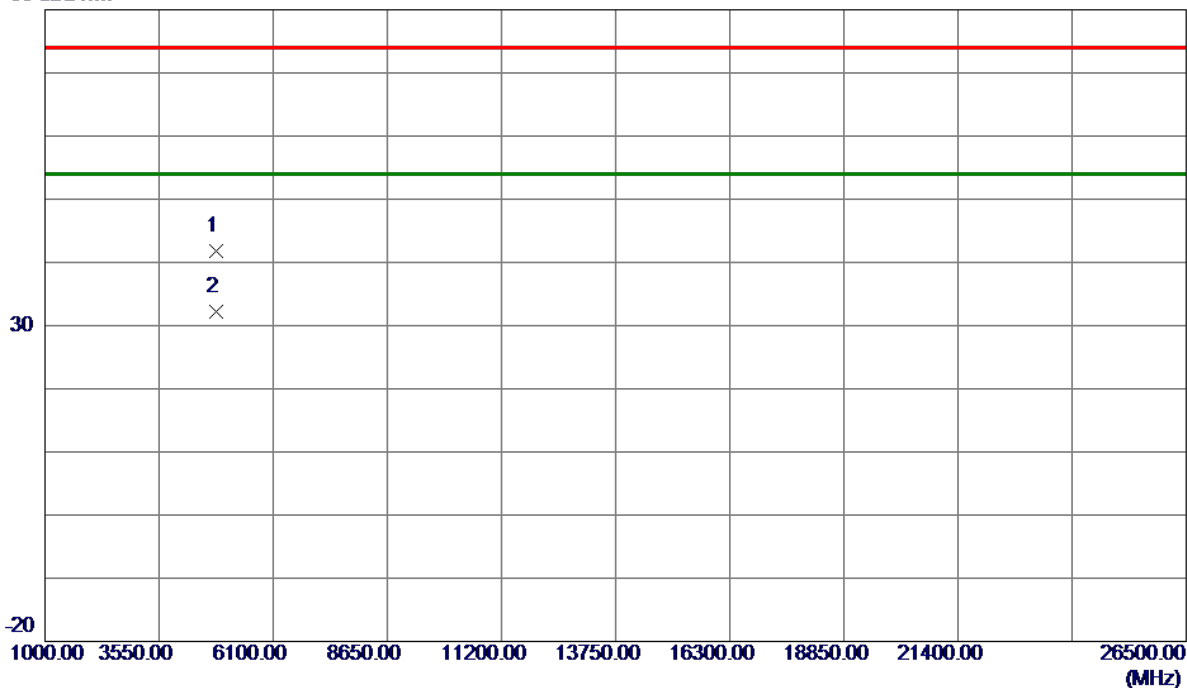


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 45.94                      | 6.62                    | 52.56                     | 74.00           | -21.44       | Peak     |          |
| 2   | 2390.0000    | 36.14                      | 6.62                    | 42.76                     | 54.00           | -11.24       | AVG      |          |
| 3   | 2409.2500    | 95.36                      | 6.62                    | 101.98                    | 74.00           | 27.98        | Peak     | No Limit |
| 4 * | 2416.6000    | 87.36                      | 6.62                    | 93.98                     | 54.00           | 39.98        | AVG      | No Limit |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2412 MHz |

### Horizontal

80 dBuV/m

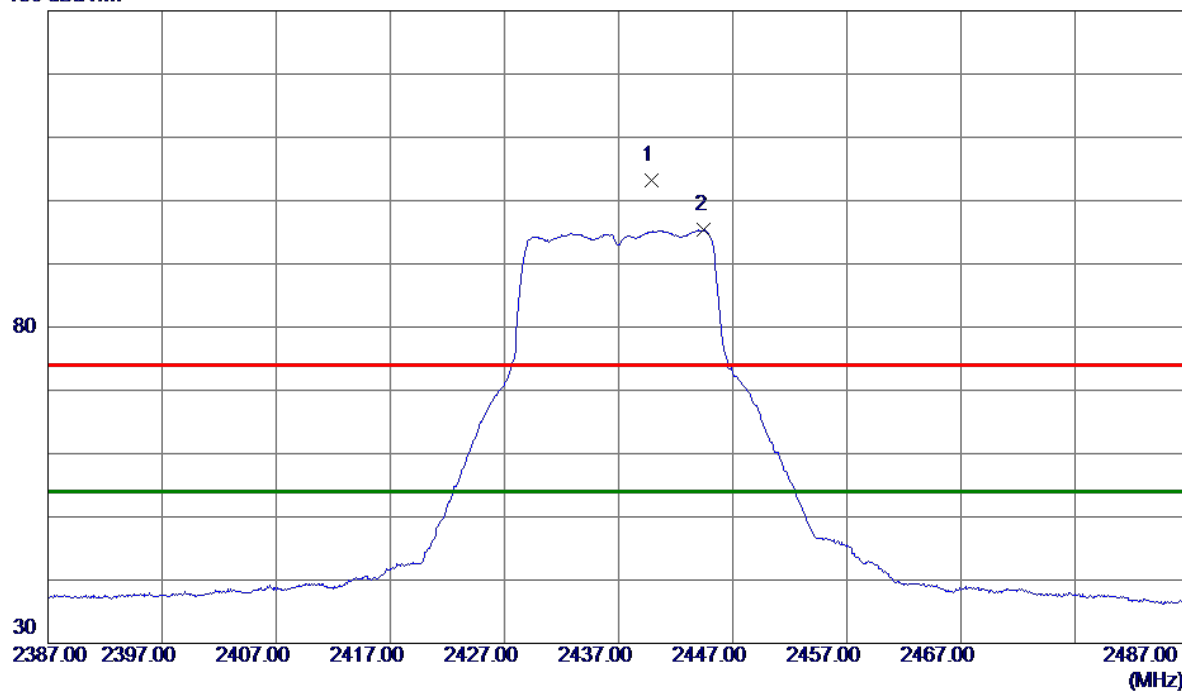


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4822.6750    | 38.23                      | 3.57                    | 41.80                     | 74.00           | -32.20       | Peak     |         |
| 2 * | 4825.2250    | 28.64                      | 3.57                    | 32.21                     | 54.00           | -21.79       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2437 MHz |

### Vertical

130 dBuV/m

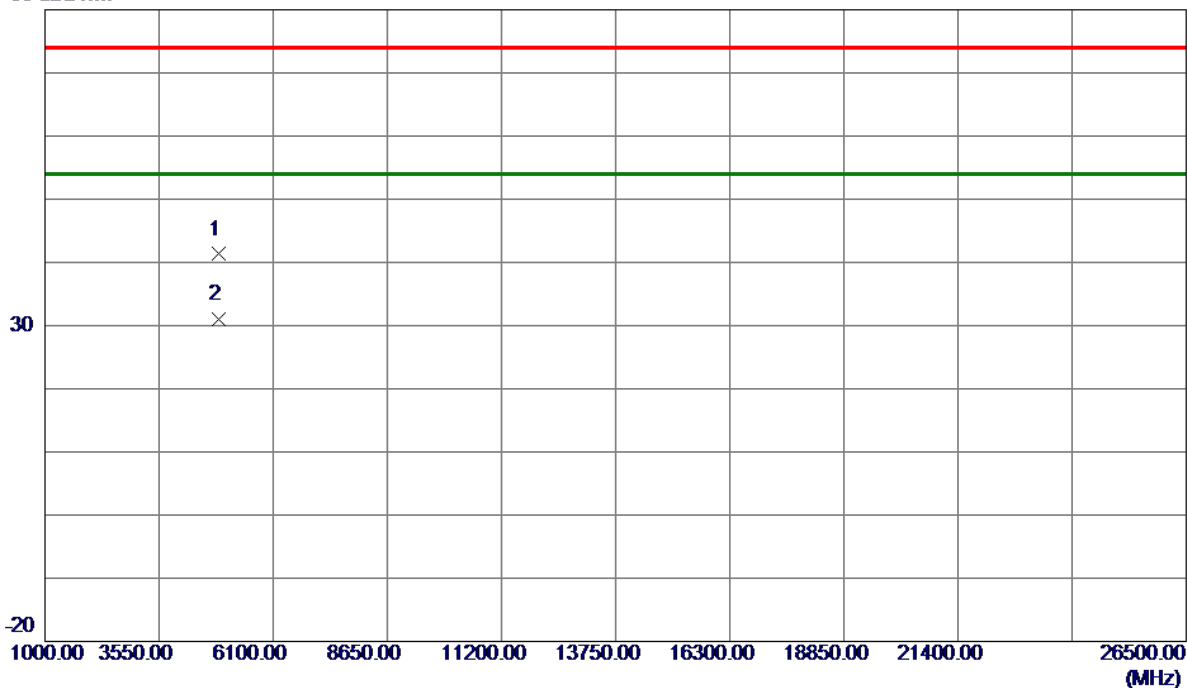


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2439.9000    | 96.50                      | 6.61                    | 103.11                    | 74.00           | 29.11        | Peak     | No Limit |
| 2 * | 2444.5000    | 88.74                      | 6.61                    | 95.35                     | 54.00           | 41.35        | AVG      | No Limit |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2437 MHz |

### Vertical

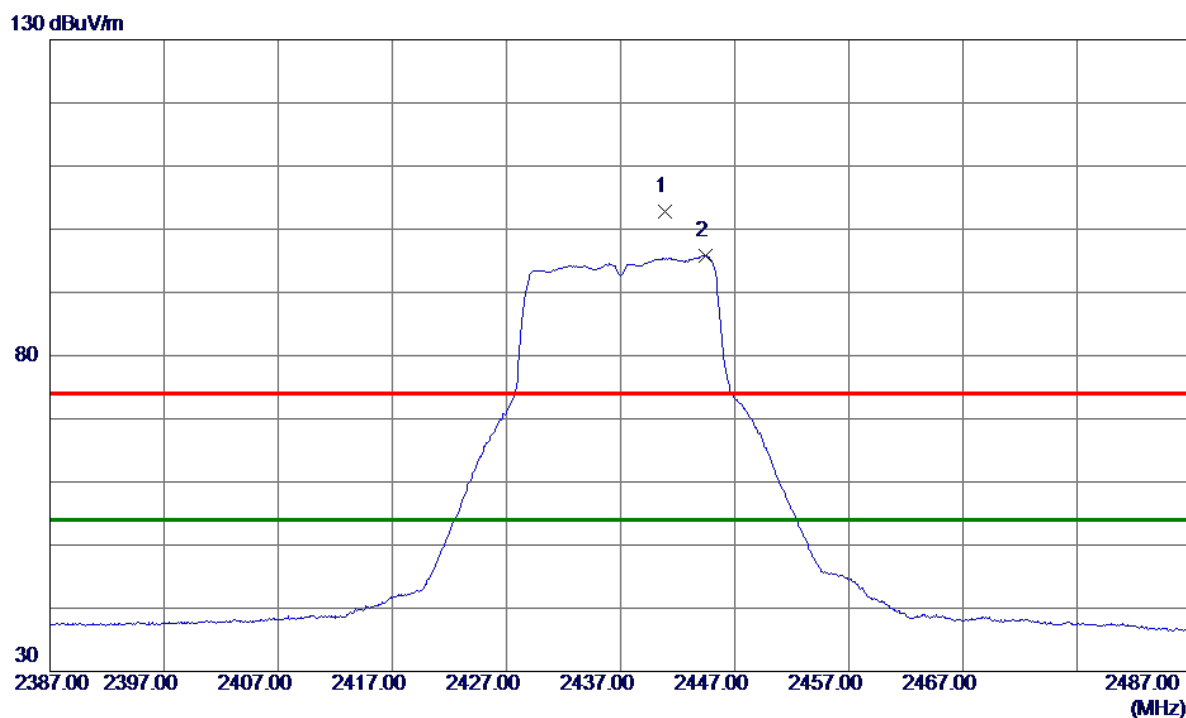
80 dBuV/m



| 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   | 4870.5500    | 37.63                      | 3.67                    | 41.30                     | 74.00           | -32.70       | Peak     |         |
| 2 * | 4870.9750    | 27.26                      | 3.67                    | 30.93                     | 54.00           | -23.07       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2437 MHz |

### Horizontal

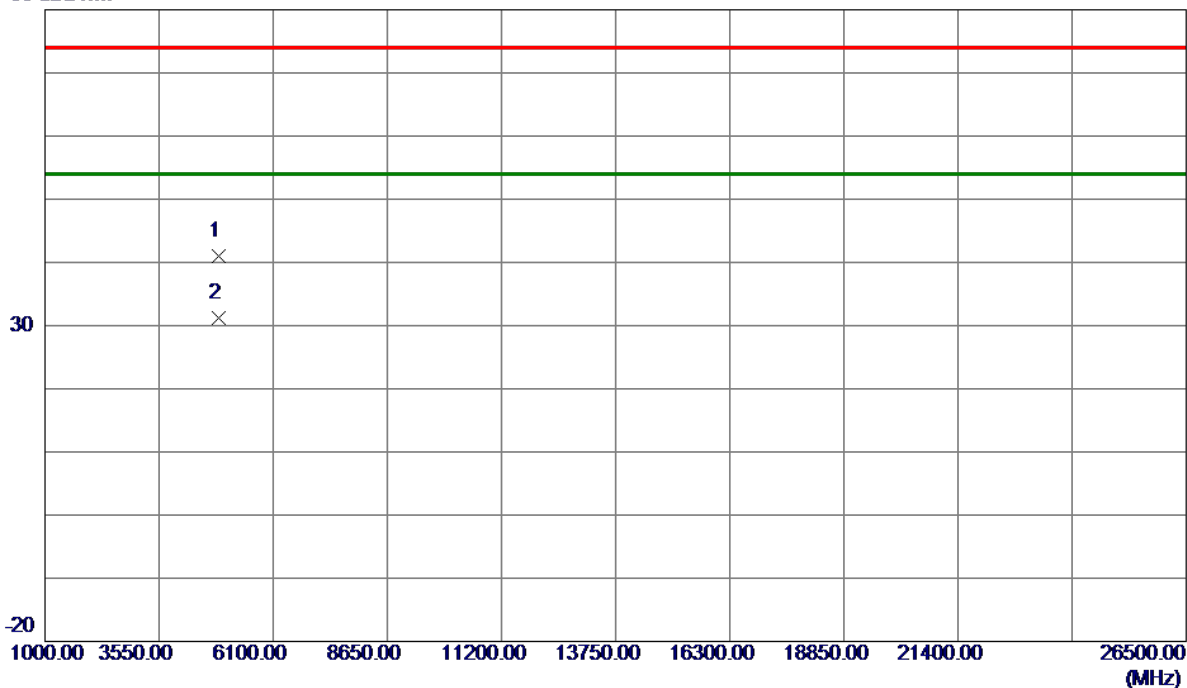


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2440.9000    | 96.19                      | 6.61                    | 102.80                    | 74.00           | 28.80        | Peak     | No Limit |
| 2 * | 2444.4000    | 89.18                      | 6.61                    | 95.79                     | 54.00           | 41.79        | AVG      | No Limit |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2437 MHz |

### Horizontal

80 dBuV/m

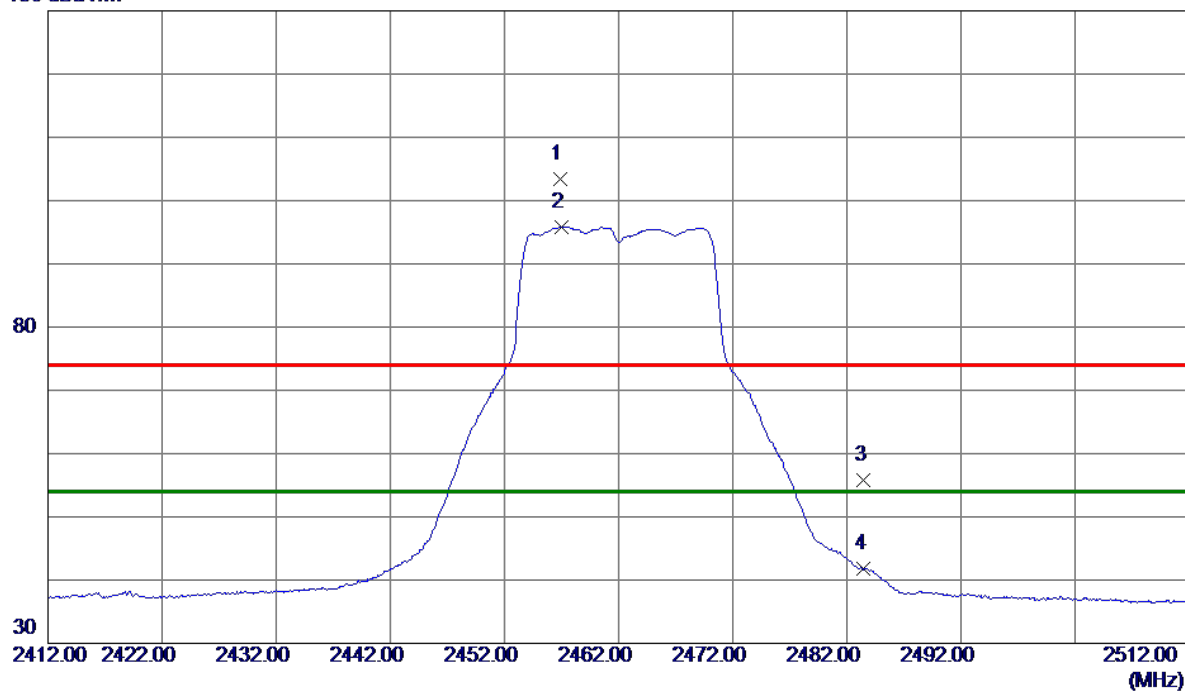


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4873.4500    | 37.27                      | 3.68                    | 40.95                     | 74.00           | -33.05       | Peak     |         |
| 2 * | 4874.6750    | 27.61                      | 3.68                    | 31.29                     | 54.00           | -22.71       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2462 MHz |

### Vertical

130 dBuV/m

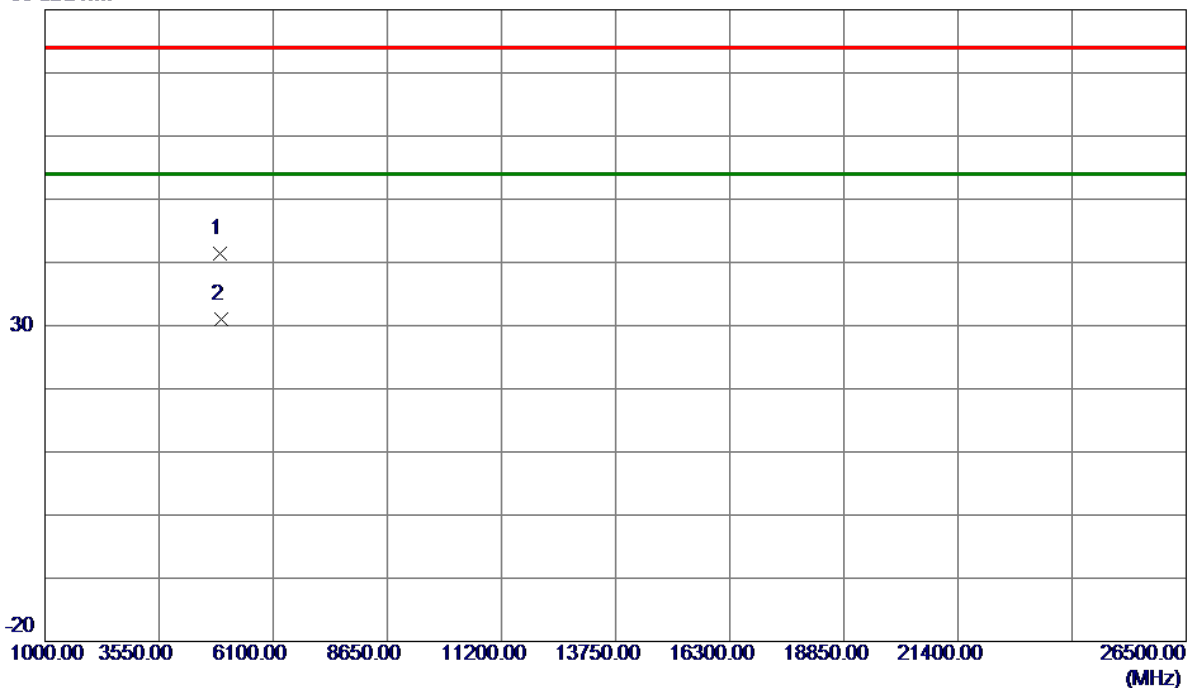


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2456.9000    | 96.76                      | 6.61                    | 103.37                    | 74.00           | 29.37        | Peak     | No Limit |
| 2 * | 2456.9500    | 89.22                      | 6.61                    | 95.83                     | 54.00           | 41.83        | AVG      | No Limit |
| 3   | 2483.5000    | 49.15                      | 6.61                    | 55.76                     | 74.00           | -18.24       | Peak     |          |
| 4   | 2483.5000    | 35.11                      | 6.61                    | 41.72                     | 54.00           | -12.28       | AVG      |          |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2462 MHz |

### Vertical

80 dBuV/m

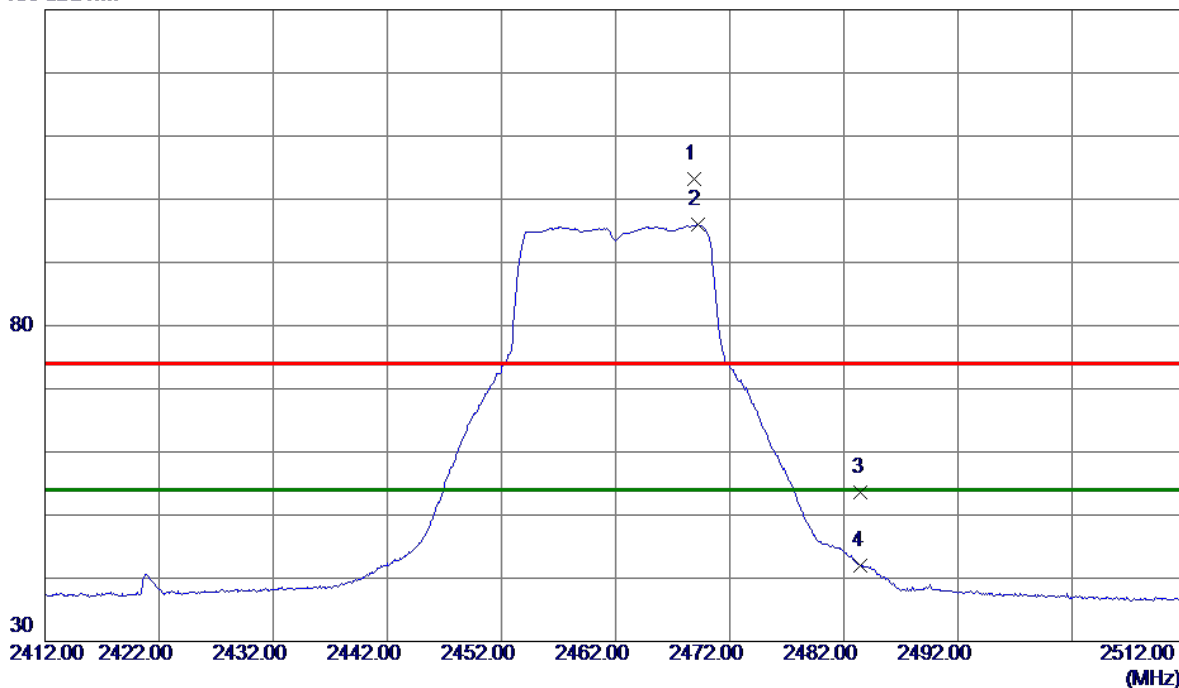


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4923.7500    | 37.53                      | 3.79                    | 41.32                     | 74.00           | -32.68       | Peak     |         |
| 2 * | 4929.0750    | 27.23                      | 3.80                    | 31.03                     | 54.00           | -22.97       | AVG      |         |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2462 MHz |

### Horizontal

130 dBuV/m

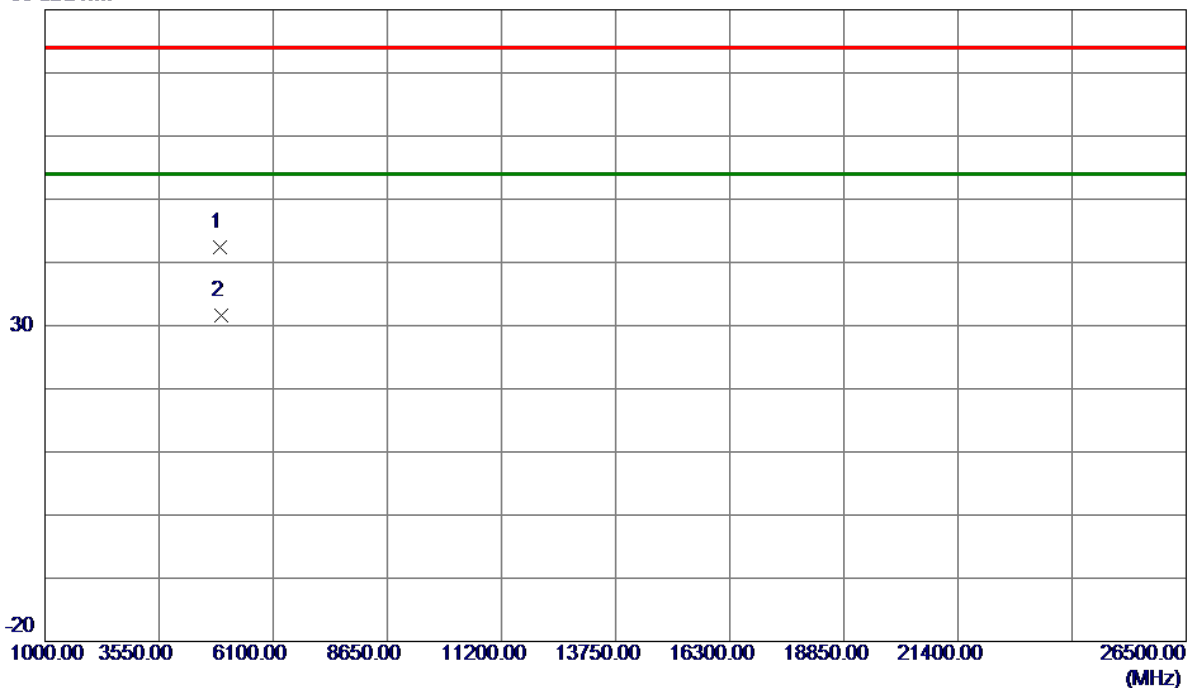


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2468.9000    | 96.58                      | 6.61                    | 103.19                    | 74.00           | 29.19        | Peak     | No Limit |
| 2 * | 2469.2000    | 89.29                      | 6.61                    | 95.90                     | 54.00           | 41.90        | AVG      | No Limit |
| 3   | 2483.5000    | 47.00                      | 6.61                    | 53.61                     | 74.00           | -20.39       | Peak     |          |
| 4   | 2483.5000    | 35.39                      | 6.61                    | 42.00                     | 54.00           | -12.00       | AVG      |          |

|                 |                    |
|-----------------|--------------------|
| Orthogonal Axis | X                  |
| Test Mode:      | TX G Mode 2462 MHz |

### Horizontal

80 dBuV/m

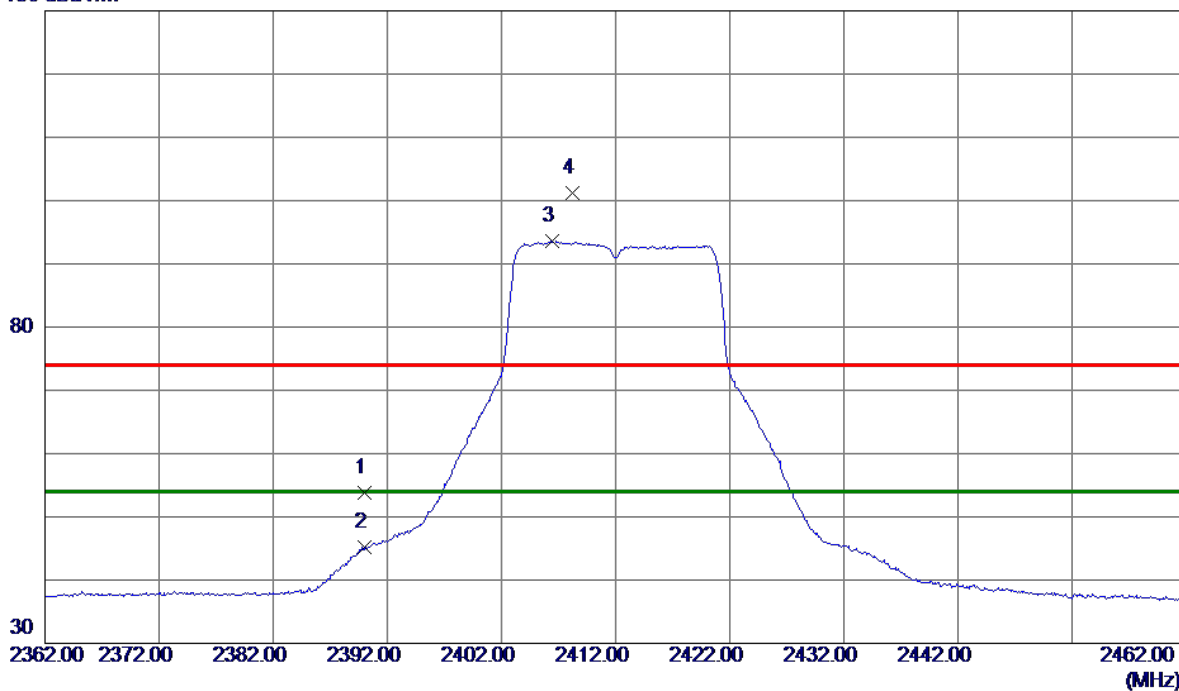


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4923.0750    | 38.53                      | 3.79                    | 42.32                     | 74.00           | -31.68       | Peak     |         |
| 2 * | 4925.1500    | 27.88                      | 3.79                    | 31.67                     | 54.00           | -22.33       | AVG      |         |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2412 MHz |

### Vertical

130 dBuV/m

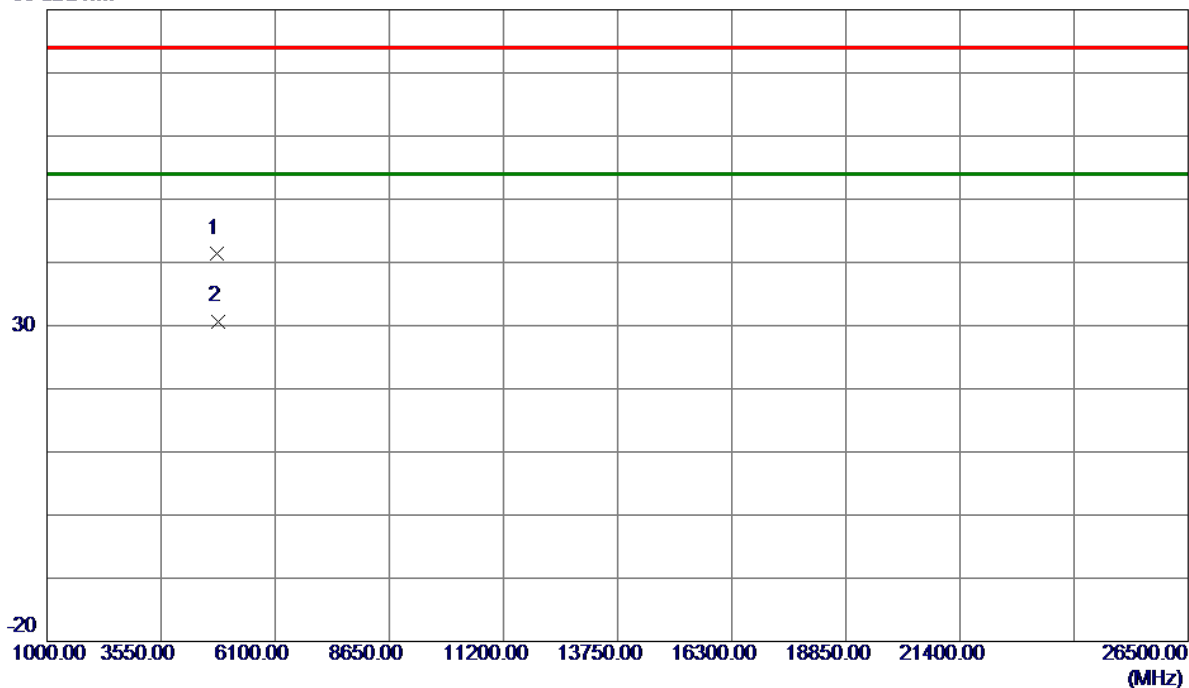


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 47.25                      | 6.62                    | 53.87                     | 74.00           | -20.13       | Peak     |          |
| 2   | 2390.0000    | 38.53                      | 6.62                    | 45.15                     | 54.00           | -8.85        | AVG      |          |
| 3 * | 2406.4000    | 87.02                      | 6.62                    | 93.64                     | 54.00           | 39.64        | AVG      | No Limit |
| 4   | 2408.2500    | 94.49                      | 6.62                    | 101.11                    | 74.00           | 27.11        | Peak     | No Limit |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2412 MHz |

# Vertical

80 dBuV/m

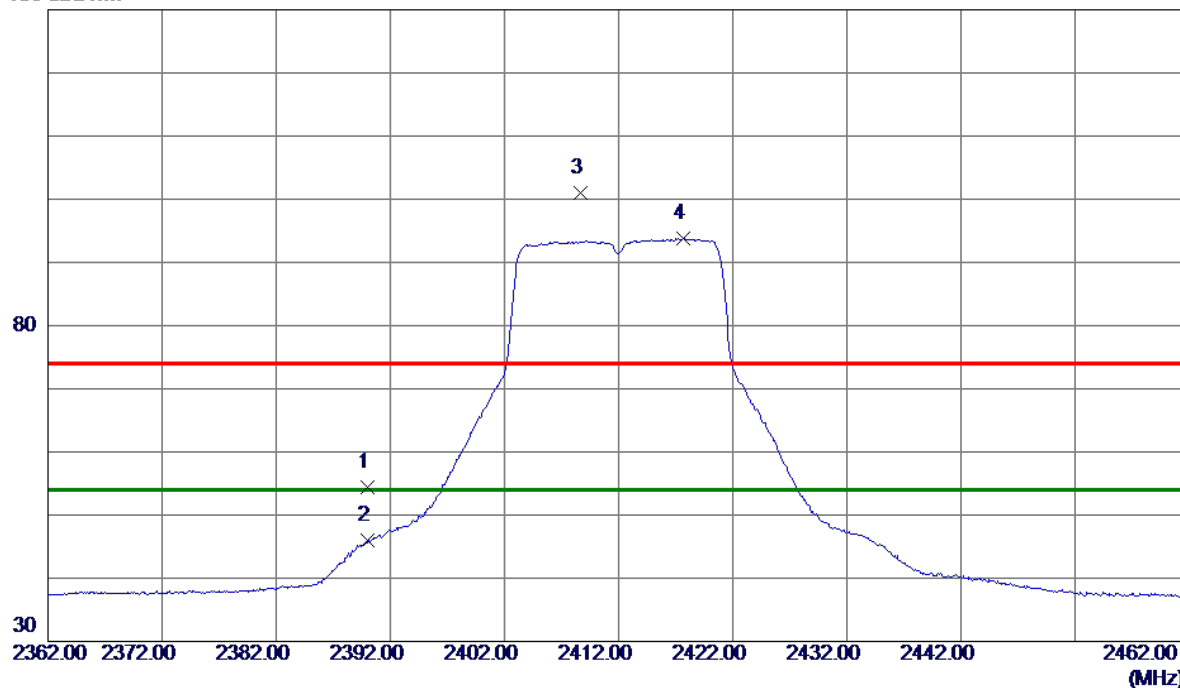


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4810.6500    | 37.95                      | 3.54                    | 41.49                     | 74.00           | -32.51       | Peak     |         |
| 2 * | 4817.4750    | 27.14                      | 3.56                    | 30.70                     | 54.00           | -23.30       | AVG      |         |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2412 MHz |

# Horizontal

130 dBuV/m

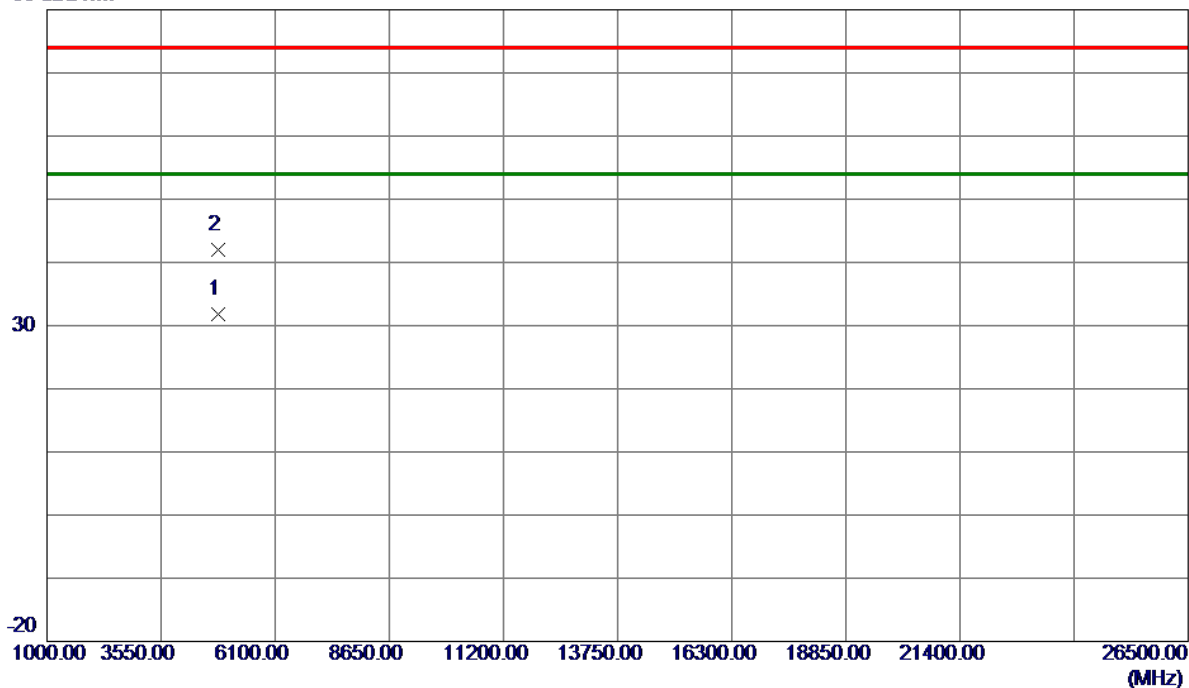


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 47.77                      | 6.62                    | 54.39                     | 74.00           | -19.61       | Peak     |          |
| 2   | 2390.0000    | 39.42                      | 6.62                    | 46.04                     | 54.00           | -7.96        | AVG      |          |
| 3   | 2408.7000    | 94.38                      | 6.62                    | 101.00                    | 74.00           | 27.00        | Peak     | No Limit |
| 4 * | 2417.7000    | 87.16                      | 6.62                    | 93.78                     | 54.00           | 39.78        | AVG      | No Limit |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2412 MHz |

### Horizontal

80 dBuV/m

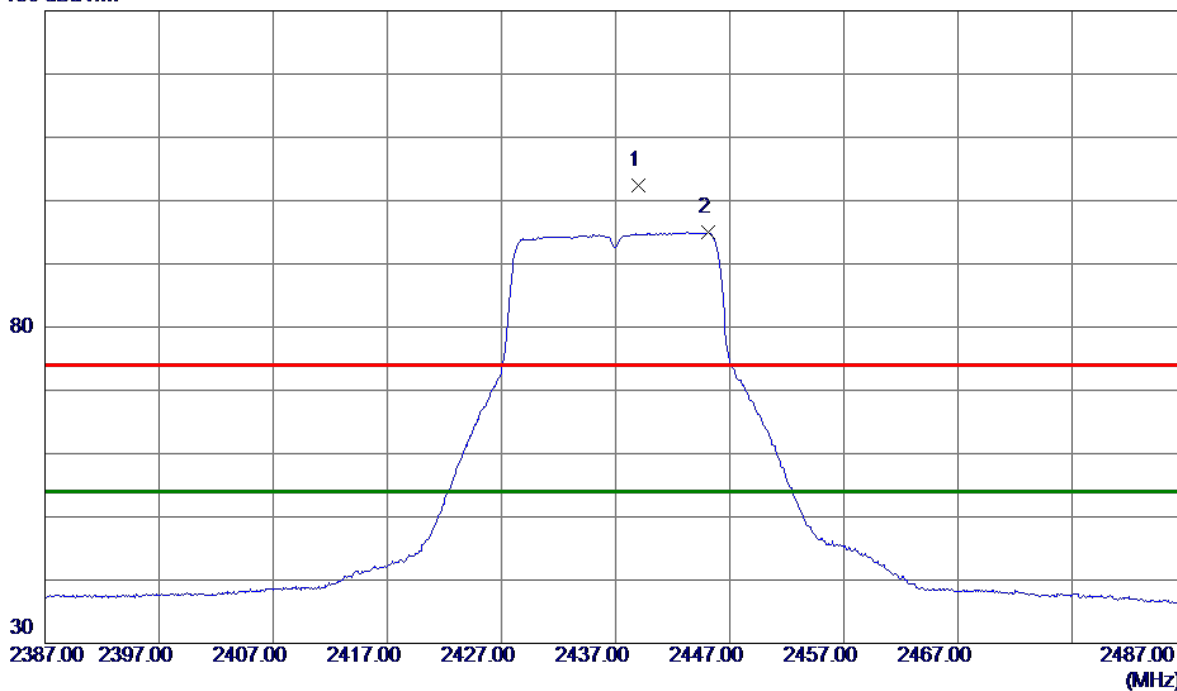


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4823.1250    | 28.16                      | 3.57                    | 31.73                     | 54.00           | -22.27       | AVG      |         |
| 2   | 4834.2000    | 38.33                      | 3.59                    | 41.92                     | 74.00           | -32.08       | Peak     |         |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2437 MHz |

### Vertical

130 dBuV/m

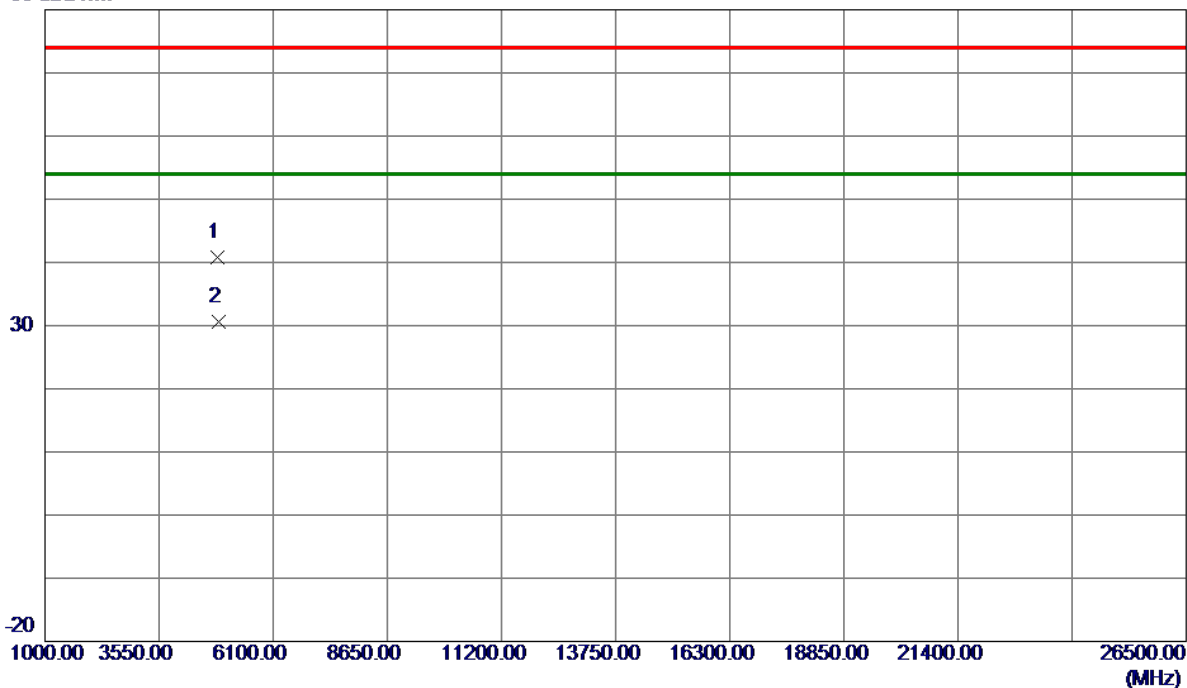


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2439.0000    | 95.75                      | 6.61                    | 102.36                    | 74.00           | 28.36        | Peak     | No Limit |
| 2 * | 2445.1500    | 88.35                      | 6.61                    | 94.96                     | 54.00           | 40.96        | AVG      | No Limit |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2437 MHz |

### Vertical

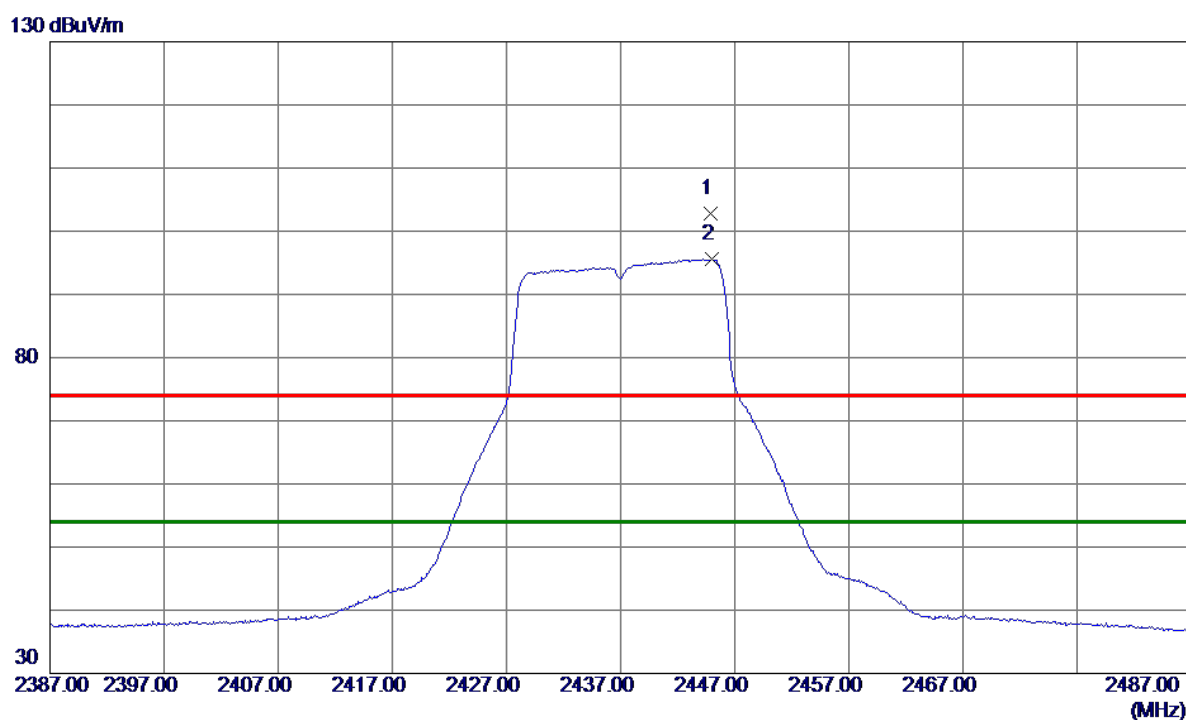
80 dBuV/m



| 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   | 4859.8500    | 37.07                      | 3.65                    | 40.72                     | 74.00           | -33.28       | Peak     |         |
| 2 * | 4893.5500    | 26.88                      | 3.72                    | 30.60                     | 54.00           | -23.40       | AVG      |         |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2437 MHz |

### Horizontal

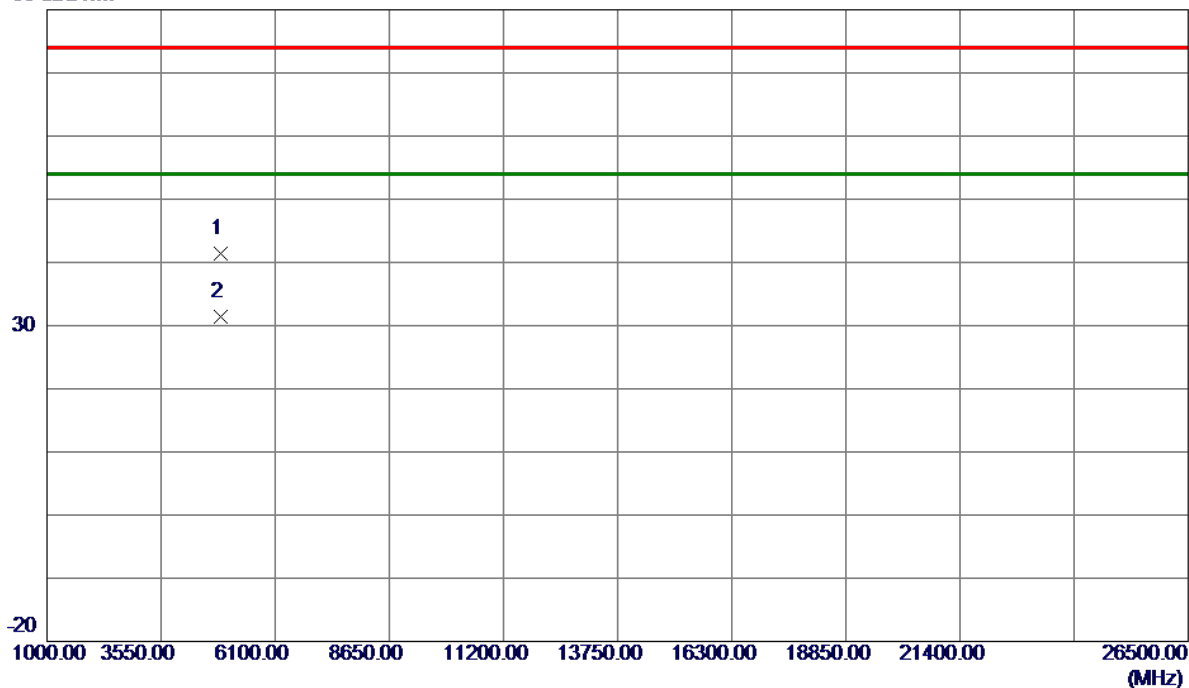


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2444.9000    | 96.25                      | 6.61                    | 102.86                    | 74.00           | 28.86        | Peak     | No Limit |
| 2 * | 2445.0000    | 88.92                      | 6.61                    | 95.53                     | 54.00           | 41.53        | AVG      | No Limit |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2437 MHz |

### Horizontal

80 dBuV/m

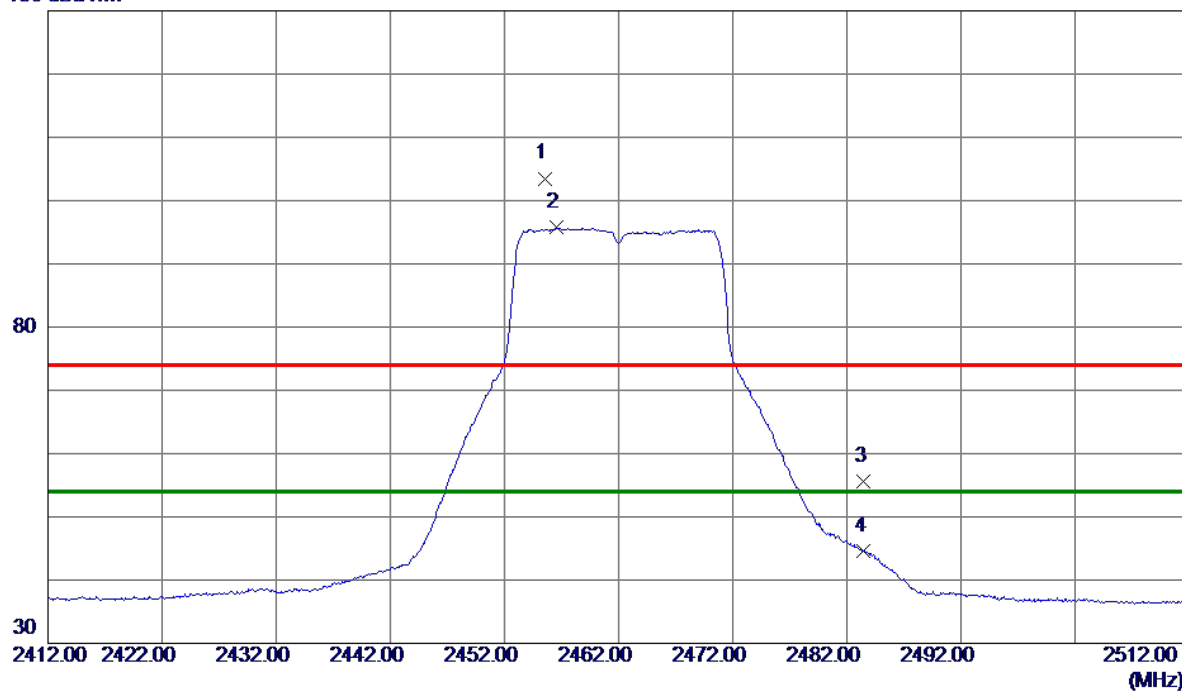


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4867.6250    | 37.64                      | 3.67                    | 41.31                     | 74.00           | -32.69       | Peak     |         |
| 2 * | 4872.9500    | 27.80                      | 3.68                    | 31.48                     | 54.00           | -22.52       | AVG      |         |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2462 MHz |

### Vertical

130 dBuV/m

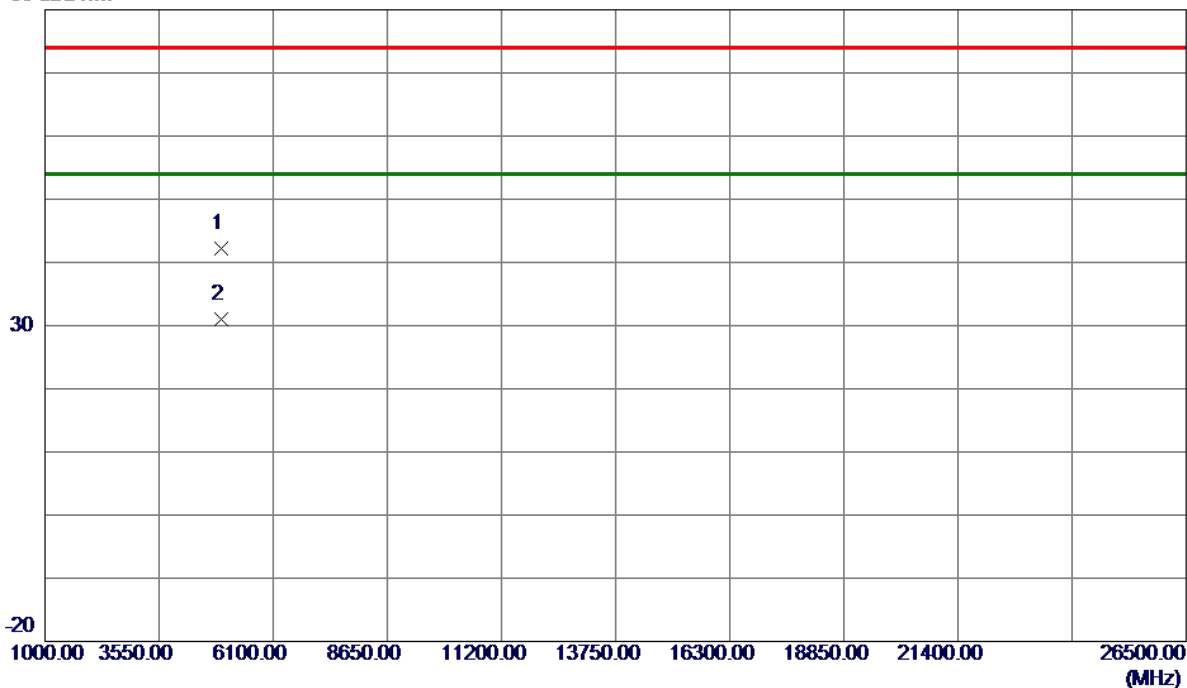


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2455.6000    | 96.89                      | 6.61                    | 103.50                    | 74.00           | 29.50        | Peak     | No Limit |
| 2 * | 2456.6000    | 89.10                      | 6.61                    | 95.71                     | 54.00           | 41.71        | AVG      | No Limit |
| 3   | 2483.5000    | 49.00                      | 6.61                    | 55.61                     | 74.00           | -18.39       | Peak     |          |
| 4   | 2483.5000    | 38.03                      | 6.61                    | 44.64                     | 54.00           | -9.36        | AVG      |          |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2462 MHz |

### Vertical

80 dBuV/m

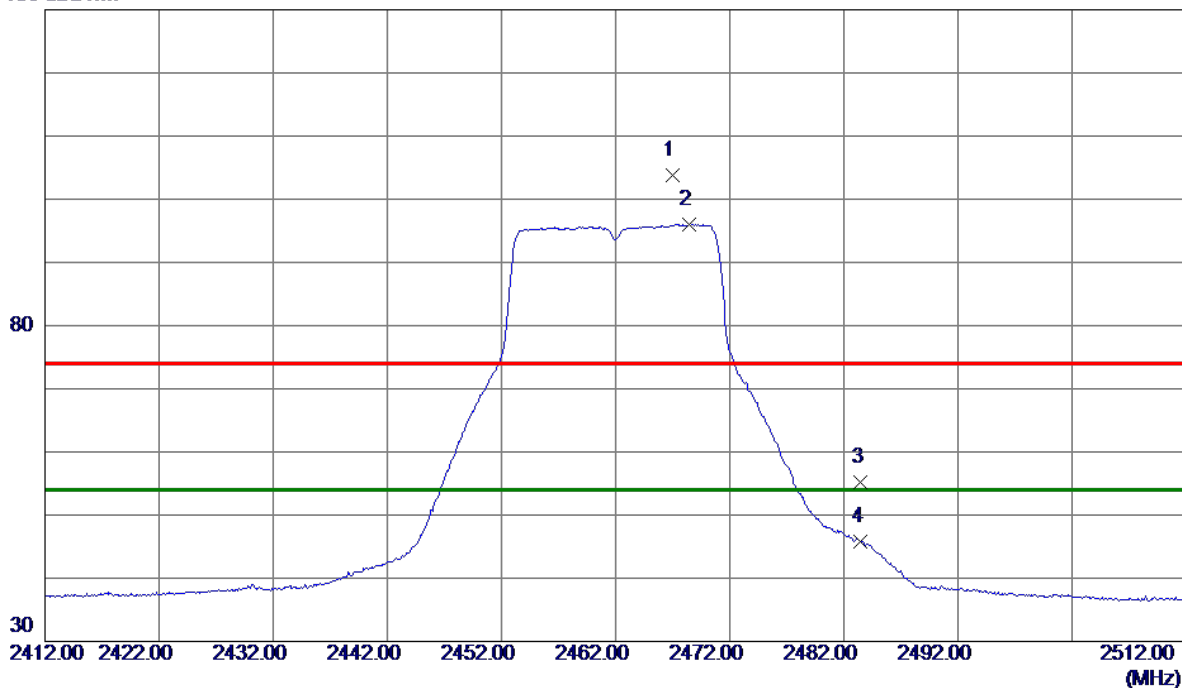


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4933.9750    | 38.35                      | 3.81                    | 42.16                     | 74.00           | -31.84       | Peak     |         |
| 2 * | 4947.4250    | 27.12                      | 3.84                    | 30.96                     | 54.00           | -23.04       | AVG      |         |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2462 MHz |

### Horizontal

130 dBuV/m

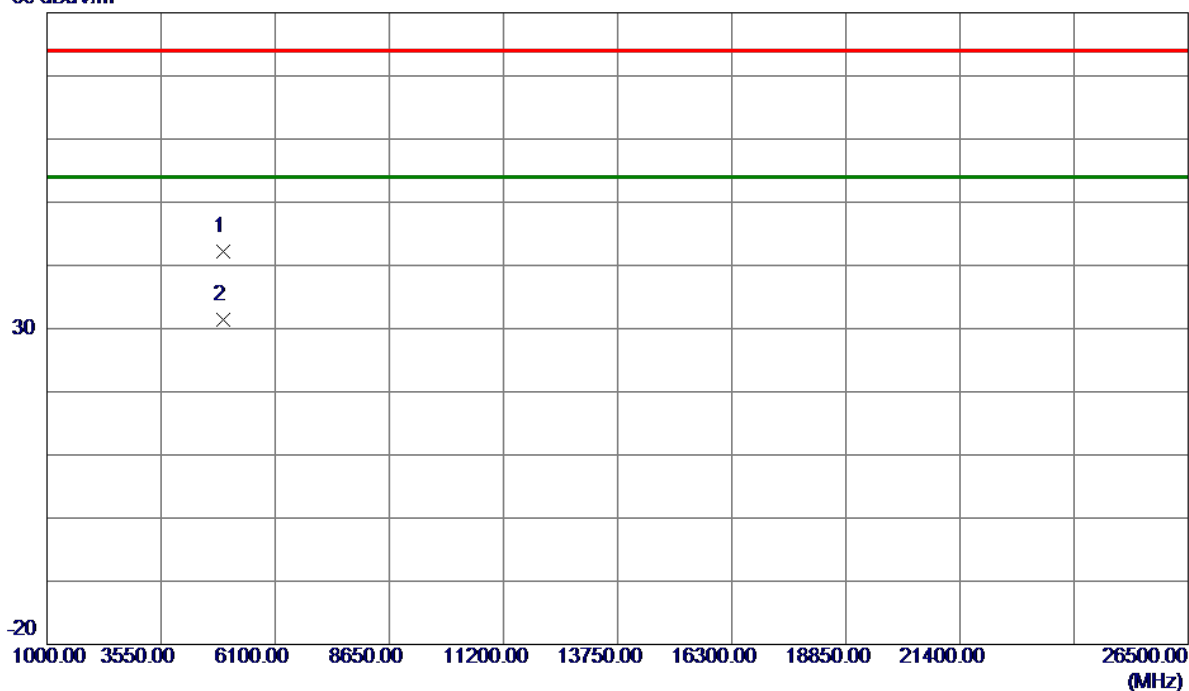


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2467.0000    | 97.16                      | 6.61                    | 103.77                    | 74.00           | 29.77        | Peak     | No Limit |
| 2 * | 2468.4500    | 89.38                      | 6.61                    | 95.99                     | 54.00           | 41.99        | AVG      | No Limit |
| 3   | 2483.5000    | 48.62                      | 6.61                    | 55.23                     | 74.00           | -18.77       | Peak     |          |
| 4   | 2483.5000    | 39.12                      | 6.61                    | 45.73                     | 54.00           | -8.27        | AVG      |          |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-20M Mode 2462 MHz |

### Horizontal

80 dBuV/m

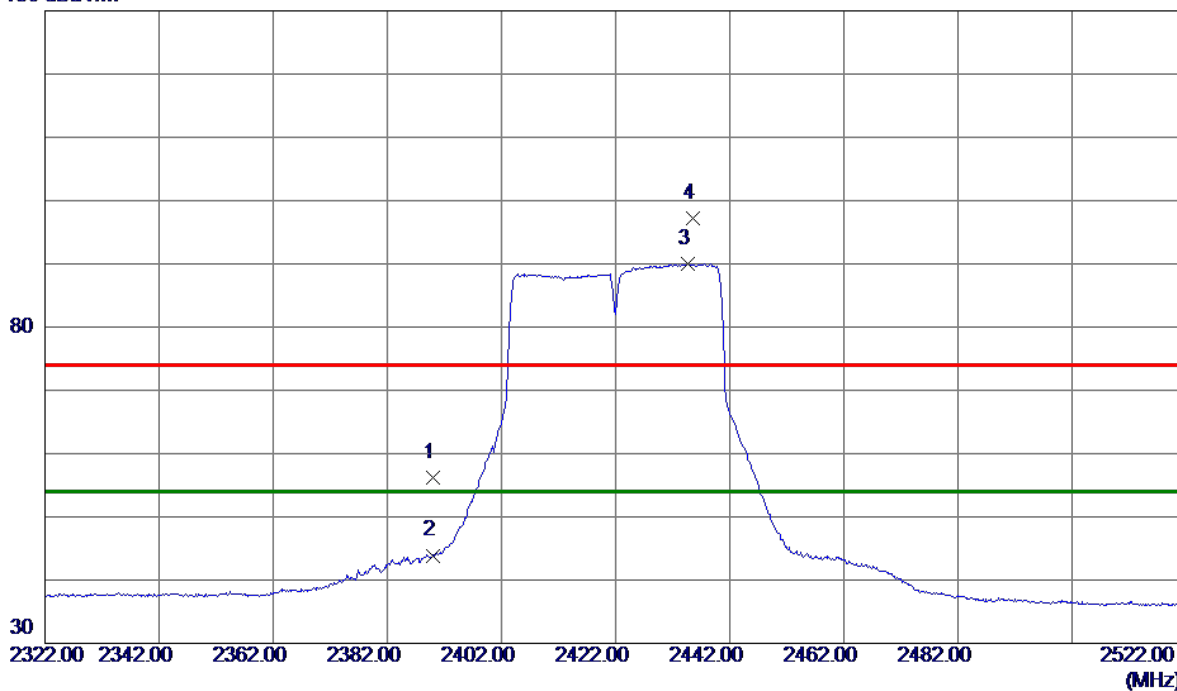


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4925.3250    | 38.35                      | 3.79                    | 42.14                     | 74.00           | -31.86       | Peak     |         |
| 2 * | 4932.7000    | 27.59                      | 3.81                    | 31.40                     | 54.00           | -22.60       | AVG      |         |

|                 |                       |
|-----------------|-----------------------|
| Orthogonal Axis | X                     |
| Test Mode:      | TX N-40M Mode 2422MHz |

### Vertical

130 dBuV/m

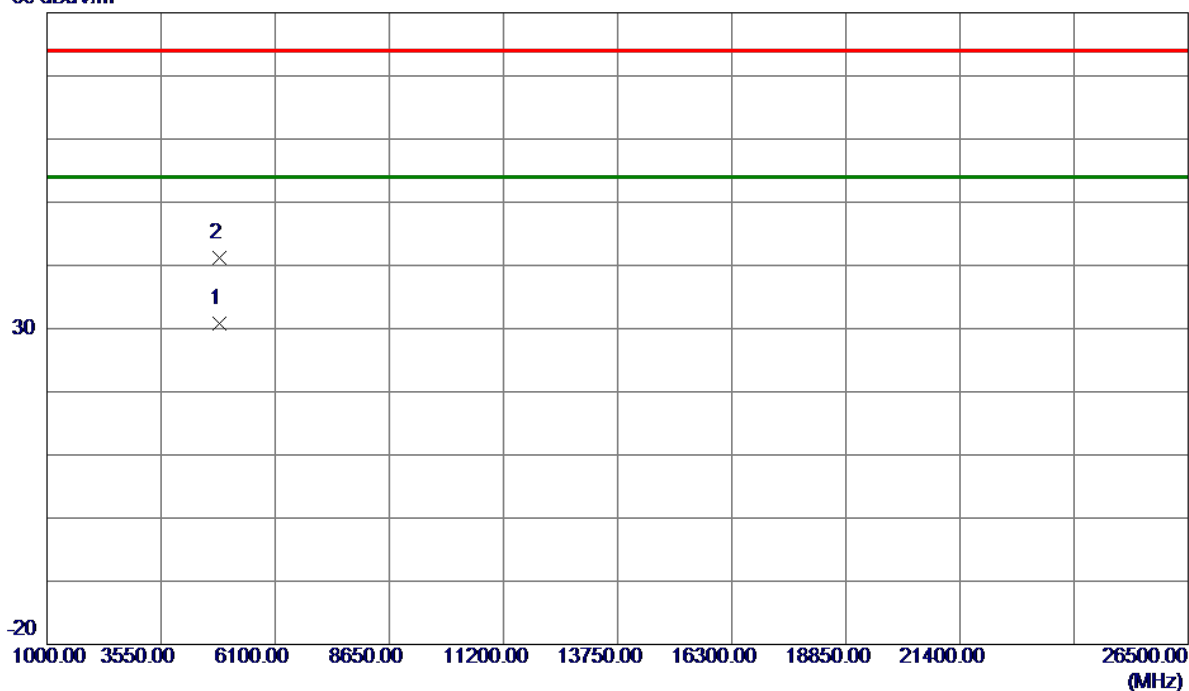


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 49.52                      | 6.62                    | 56.14                     | 74.00           | -17.86       | Peak     |          |
| 2   | 2390.0000    | 37.28                      | 6.62                    | 43.90                     | 54.00           | -10.10       | AVG      |          |
| 3 * | 2434.7000    | 83.36                      | 6.61                    | 89.97                     | 54.00           | 35.97        | AVG      | No Limit |
| 4   | 2435.6000    | 90.60                      | 6.61                    | 97.21                     | 74.00           | 23.21        | Peak     | No Limit |

|                 |                       |
|-----------------|-----------------------|
| Orthogonal Axis | X                     |
| Test Mode:      | TX N-40M Mode 2422MHz |

# Vertical

80 dBuV/m

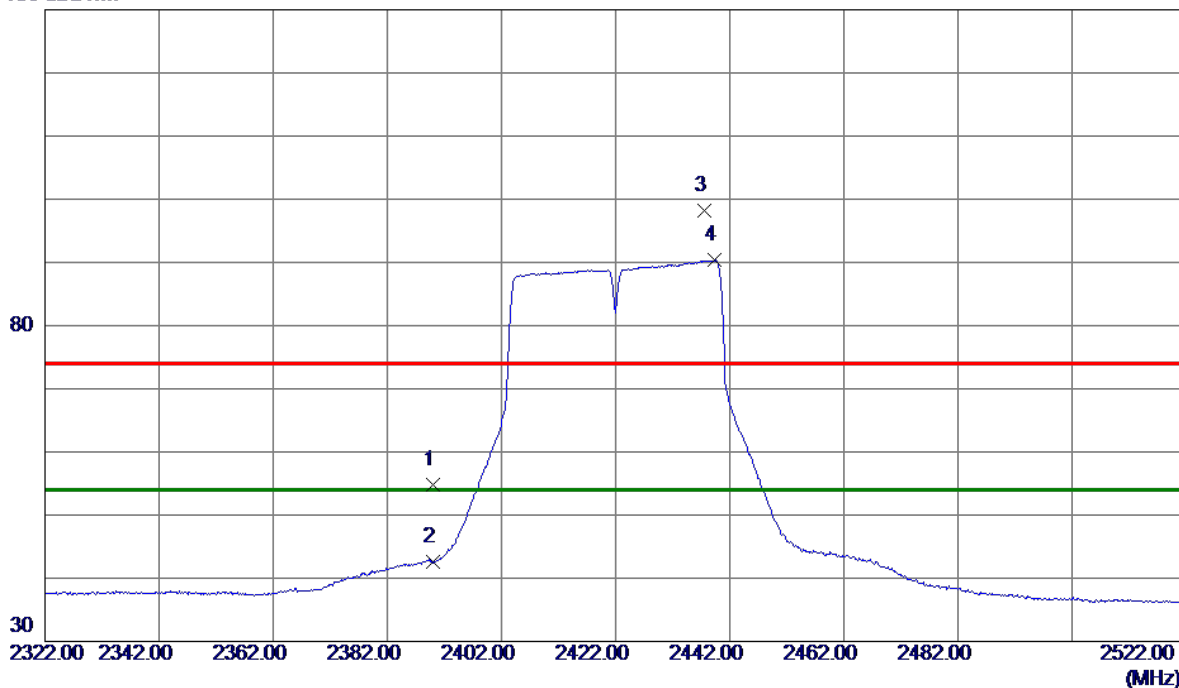


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4843.5500    | 27.10                      | 3.61                    | 30.71                     | 54.00           | -23.29       | AVG      |         |
| 2   | 4843.7750    | 37.55                      | 3.61                    | 41.16                     | 74.00           | -32.84       | Peak     |         |

|                 |                       |
|-----------------|-----------------------|
| Orthogonal Axis | X                     |
| Test Mode:      | TX N-40M Mode 2422MHz |

### Horizontal

130 dBuV/m

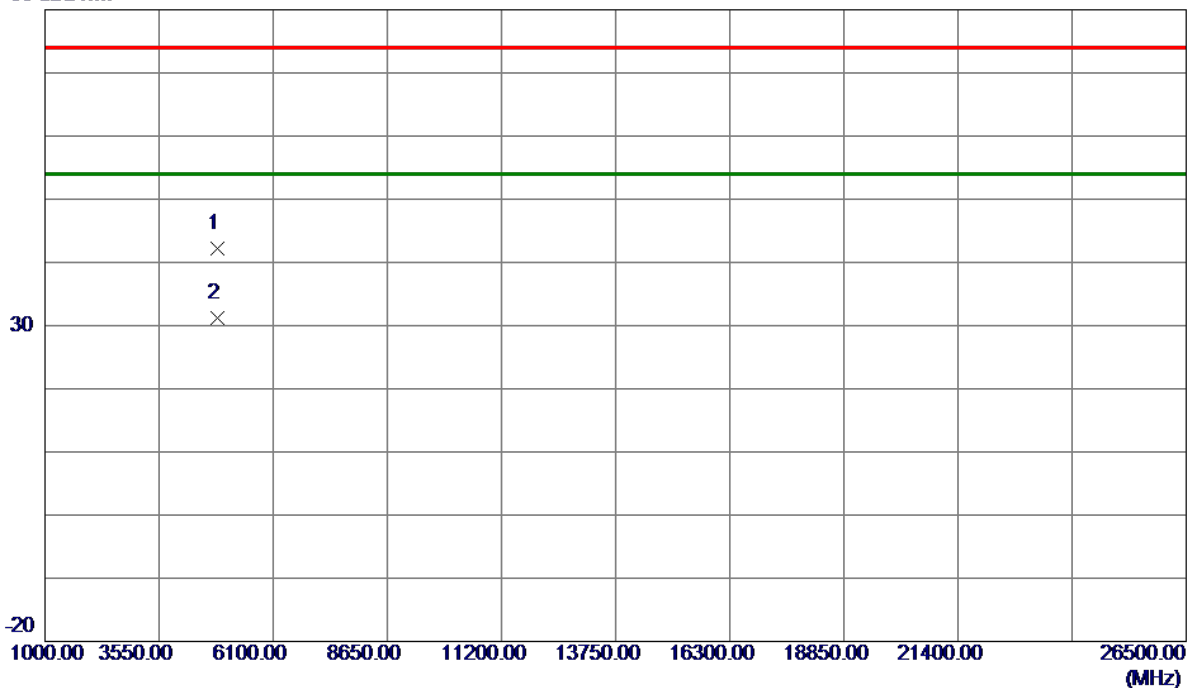


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 48.10                      | 6.62                    | 54.72                     | 74.00           | -19.28       | Peak     |          |
| 2   | 2390.0000    | 35.93                      | 6.62                    | 42.55                     | 54.00           | -11.45       | AVG      |          |
| 3   | 2437.5000    | 91.57                      | 6.61                    | 98.18                     | 74.00           | 24.18        | Peak     | No Limit |
| 4 * | 2439.4000    | 83.88                      | 6.61                    | 90.49                     | 54.00           | 36.49        | AVG      | No Limit |

|                 |                       |
|-----------------|-----------------------|
| Orthogonal Axis | X                     |
| Test Mode:      | TX N-40M Mode 2422MHz |

### Horizontal

80 dBuV/m

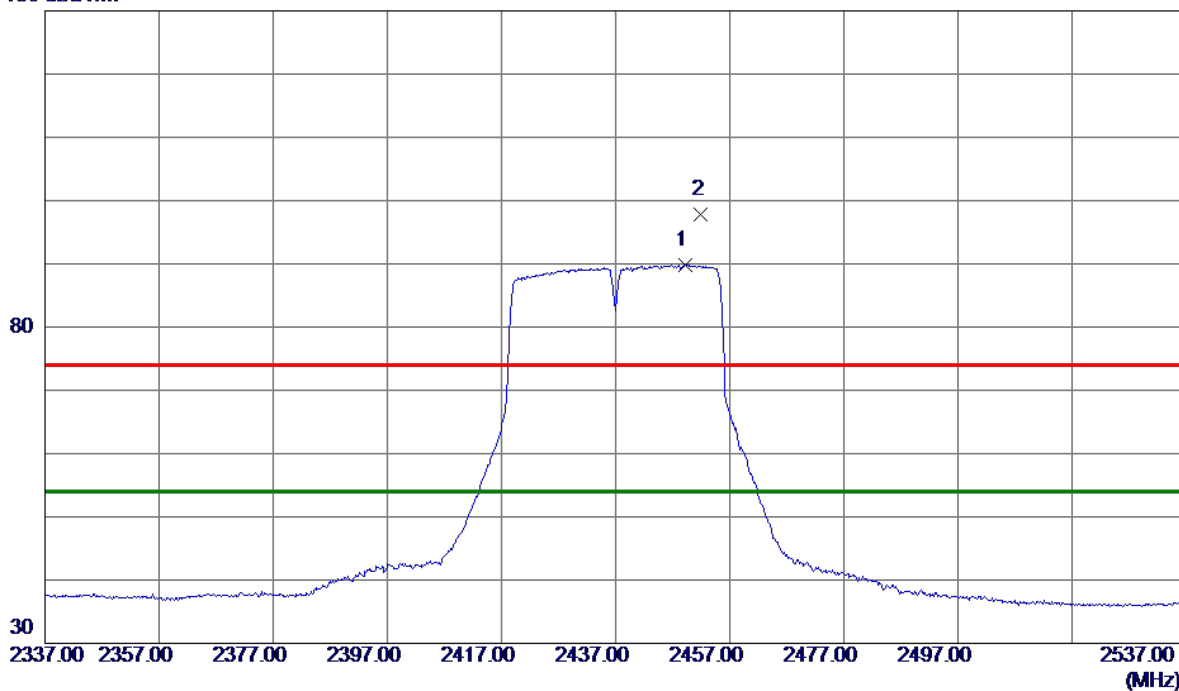


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4843.1750    | 38.64                      | 3.61                    | 42.25                     | 74.00           | -31.75       | Peak     |         |
| 2 * | 4847.9250    | 27.63                      | 3.62                    | 31.25                     | 54.00           | -22.75       | AVG      |         |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-40M Mode 2437 MHz |

### Vertical

130 dBuV/m

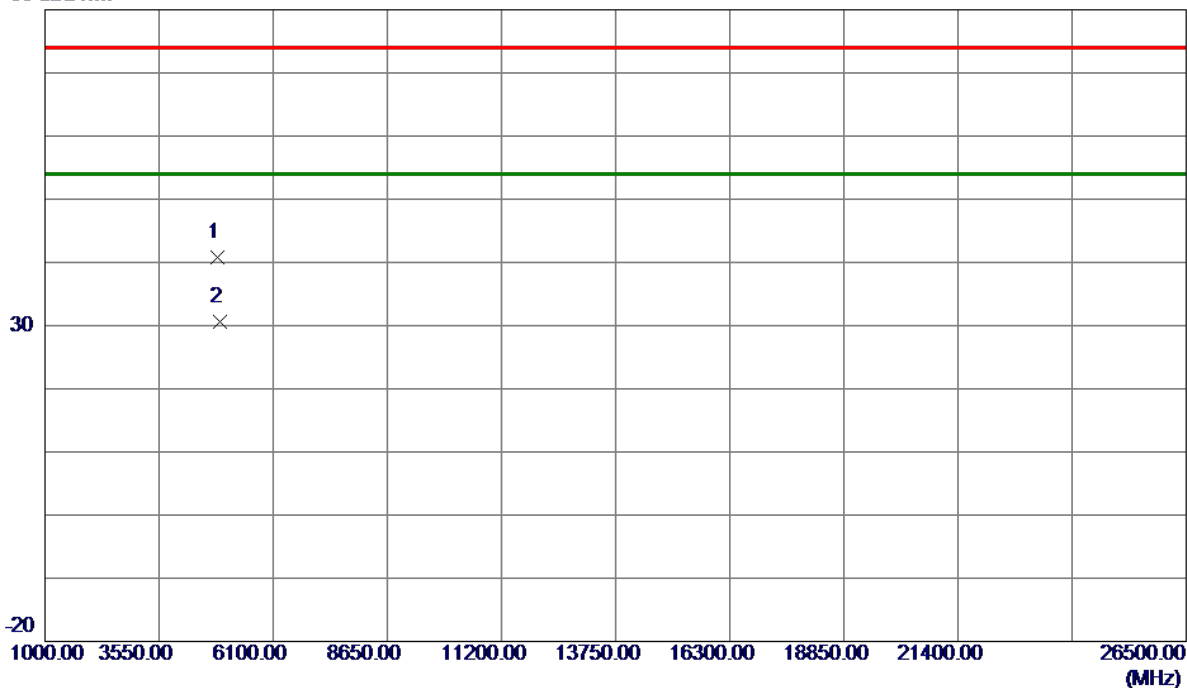


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2449.2000    | 83.21                      | 6.61                    | 89.82                     | 54.00           | 35.82        | AVG      | No Limit |
| 2   | 2452.0000    | 91.20                      | 6.61                    | 97.81                     | 74.00           | 23.81        | Peak     | No Limit |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-40M Mode 2437 MHz |

### Vertical

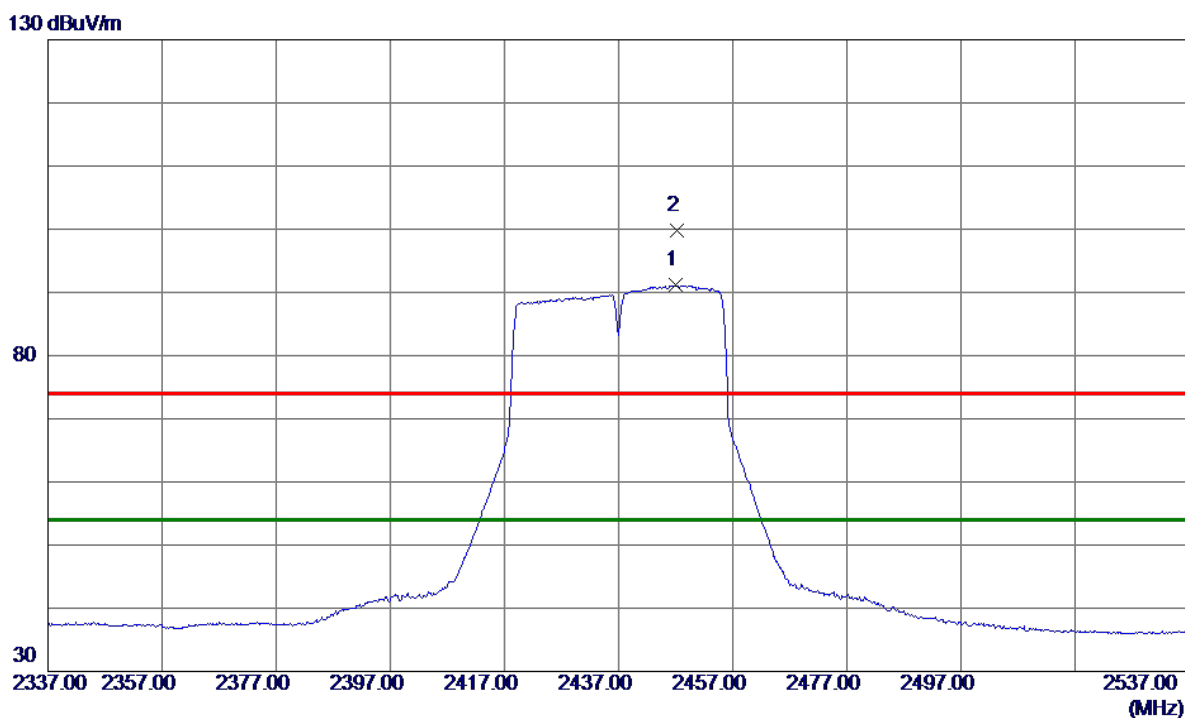
80 dBuV/m



| 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   | 4867.2000    | 37.22                      | 3.67                    | 40.89                     | 74.00           | -33.11       | Peak     |         |
| 2 * | 4897.4500    | 26.93                      | 3.73                    | 30.66                     | 54.00           | -23.34       | AVG      |         |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-40M Mode 2437 MHz |

### Horizontal

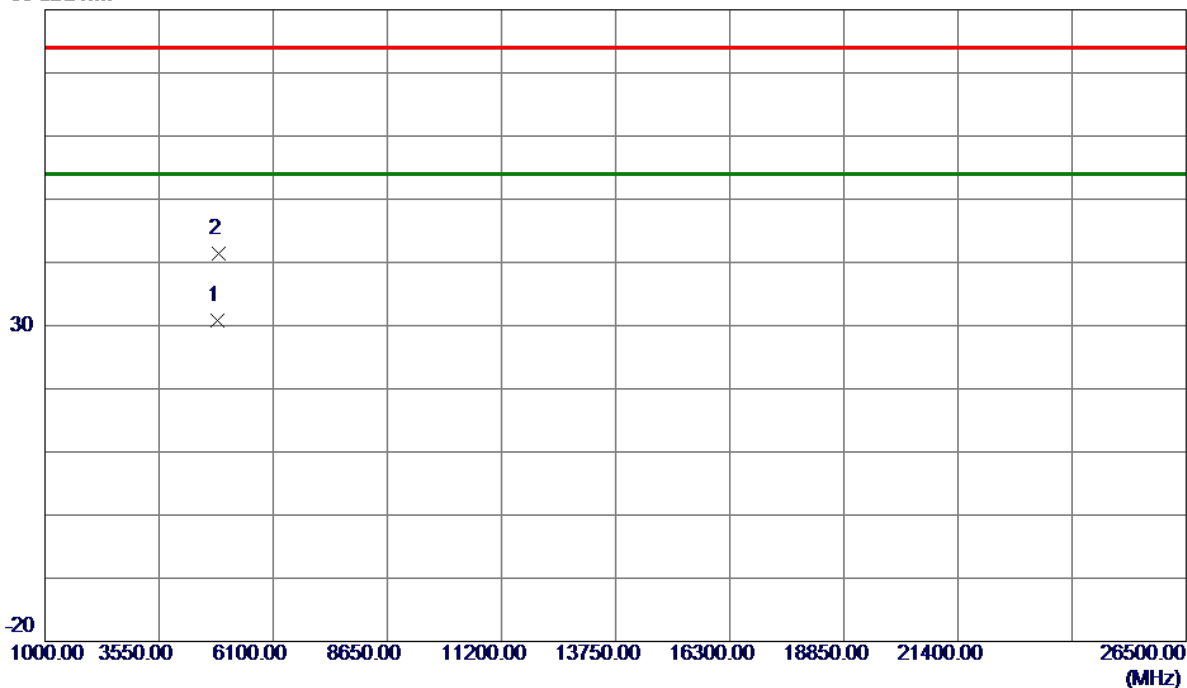


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2447.0000    | 84.57                      | 6.61                    | 91.18                     | 54.00           | 37.18        | AVG      | No Limit |
| 2   | 2447.2000    | 93.16                      | 6.61                    | 99.77                     | 74.00           | 25.77        | Peak     | No Limit |

|                 |                        |
|-----------------|------------------------|
| Orthogonal Axis | X                      |
| Test Mode:      | TX N-40M Mode 2437 MHz |

### Horizontal

80 dBuV/m

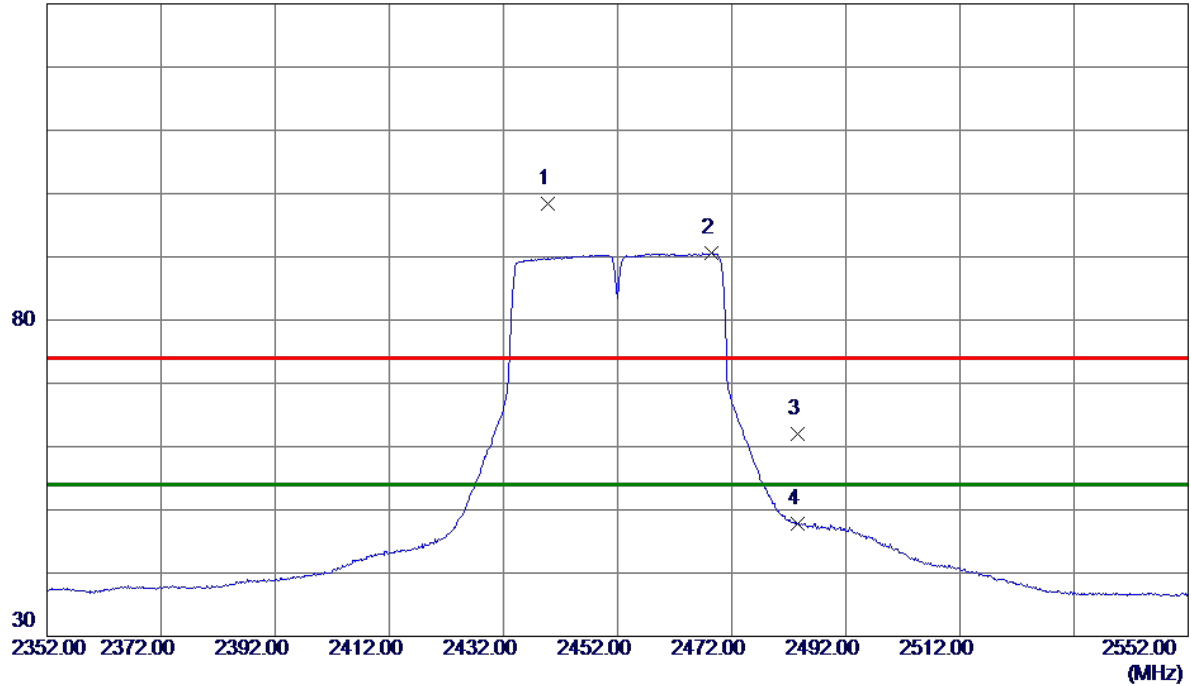


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4861.1500    | 27.17                      | 3.65                    | 30.82                     | 54.00           | -23.18       | AVG      |         |
| 2   | 4890.6750    | 37.74                      | 3.72                    | 41.46                     | 74.00           | -32.54       | Peak     |         |

|                 |                       |
|-----------------|-----------------------|
| Orthogonal Axis | X                     |
| Test Mode:      | TX N-40M Mode 2452MHz |

Vertical

130 dBuV/m

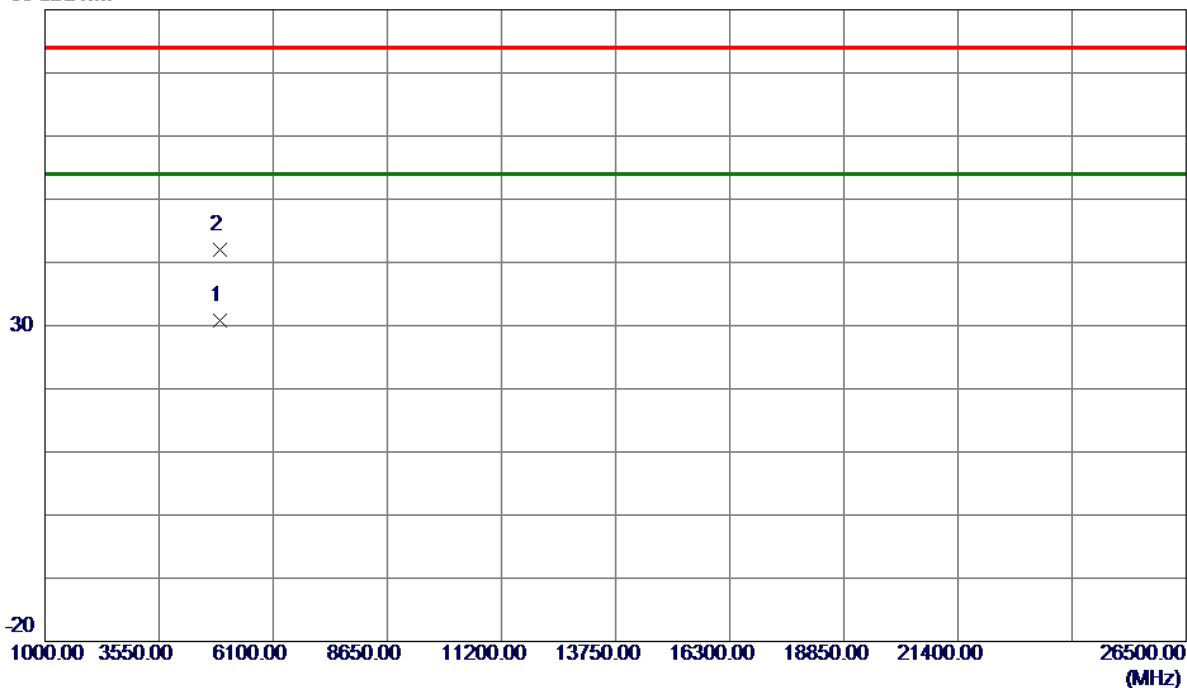


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2439.8000    | 91.83                      | 6.61                    | 98.44                     | 74.00           | 24.44        | Peak     | No Limit |
| 2 * | 2468.5000    | 83.92                      | 6.61                    | 90.53                     | 54.00           | 36.53        | AVG      | No Limit |
| 3   | 2483.5000    | 55.46                      | 6.61                    | 62.07                     | 74.00           | -11.93       | Peak     |          |
| 4   | 2483.5000    | 41.14                      | 6.61                    | 47.75                     | 54.00           | -6.25        | AVG      |          |

|                 |                       |
|-----------------|-----------------------|
| Orthogonal Axis | X                     |
| Test Mode:      | TX N-40M Mode 2452MHz |

### Vertical

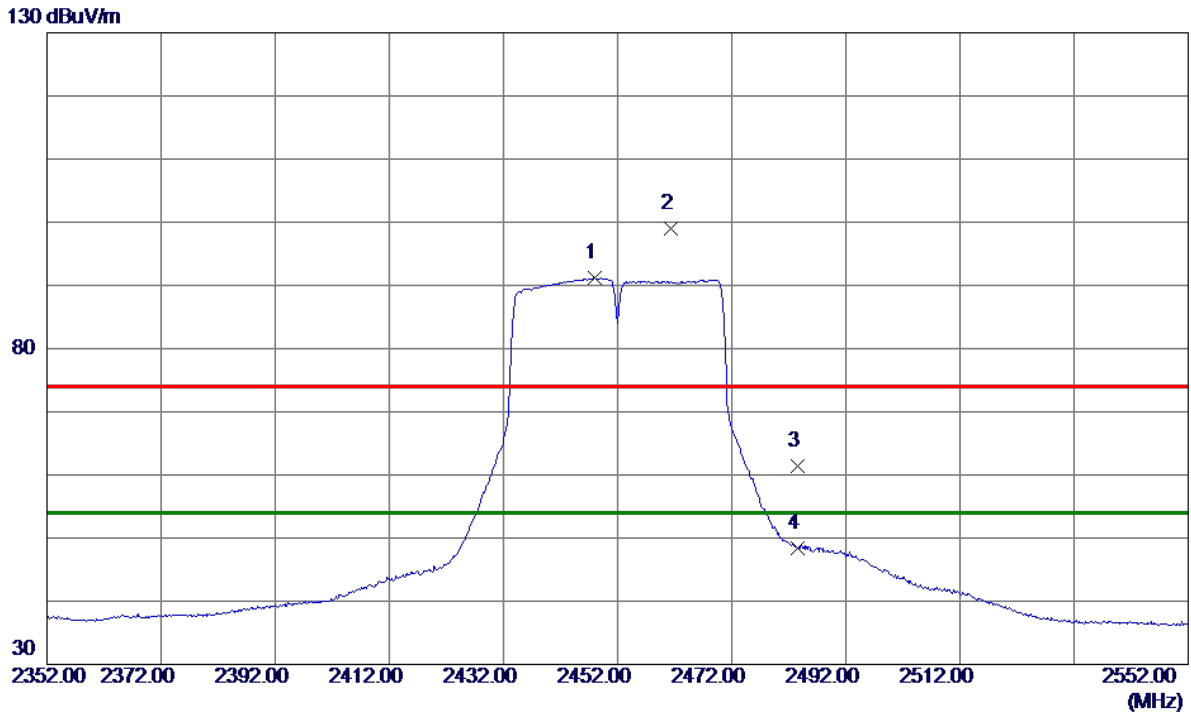
80 dBuV/m



| 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 * | 4901.2750    | 27.01                      | 3.74                    | 30.75                     | 54.00           | -23.25       | AVG      |         |
| 2   | 4908.9750    | 38.20                      | 3.76                    | 41.96                     | 74.00           | -32.04       | Peak     |         |

|                 |                       |
|-----------------|-----------------------|
| Orthogonal Axis | X                     |
| Test Mode:      | TX N-40M Mode 2452MHz |

### Horizontal

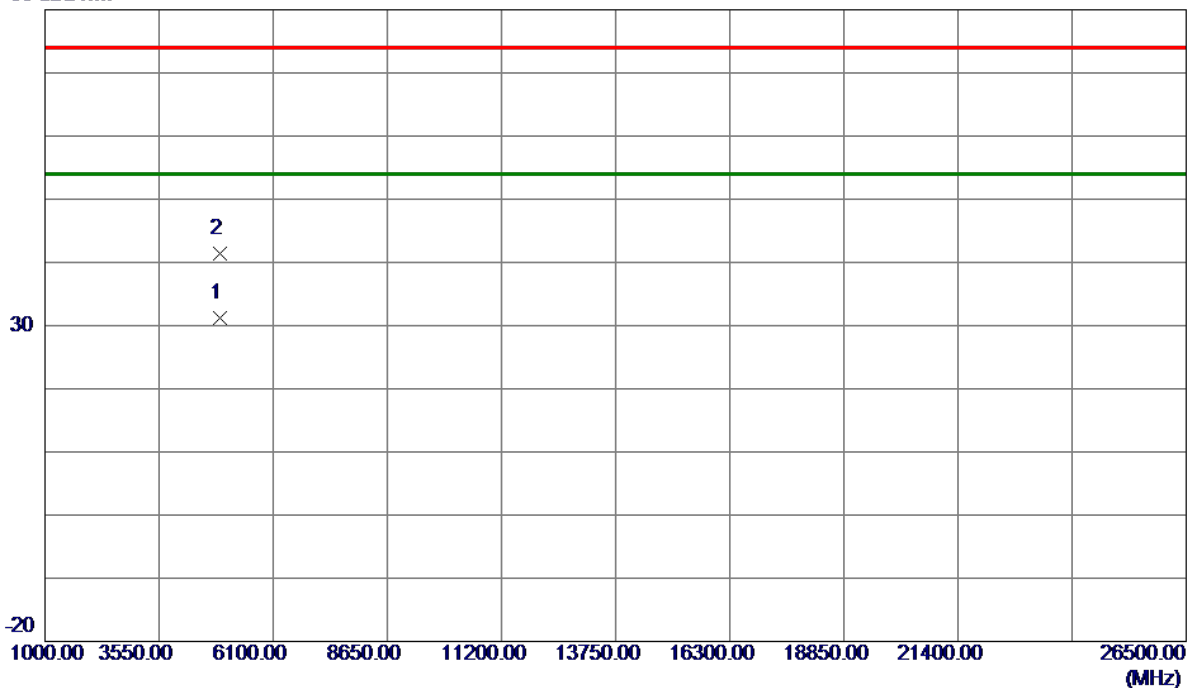


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1 * | 2448.0000    | 84.57                      | 6.61                    | 91.18                     | 54.00           | 37.18        | AVG      | No Limit |
| 2   | 2461.4000    | 92.31                      | 6.61                    | 98.92                     | 74.00           | 24.92        | Peak     | No Limit |
| 3   | 2483.5000    | 54.86                      | 6.61                    | 61.47                     | 74.00           | -12.53       | Peak     |          |
| 4   | 2483.5000    | 41.85                      | 6.61                    | 48.46                     | 54.00           | -5.54        | AVG      |          |

|                 |                       |
|-----------------|-----------------------|
| Orthogonal Axis | X                     |
| Test Mode:      | TX N-40M Mode 2452MHz |

### Horizontal

80 dBuV/m



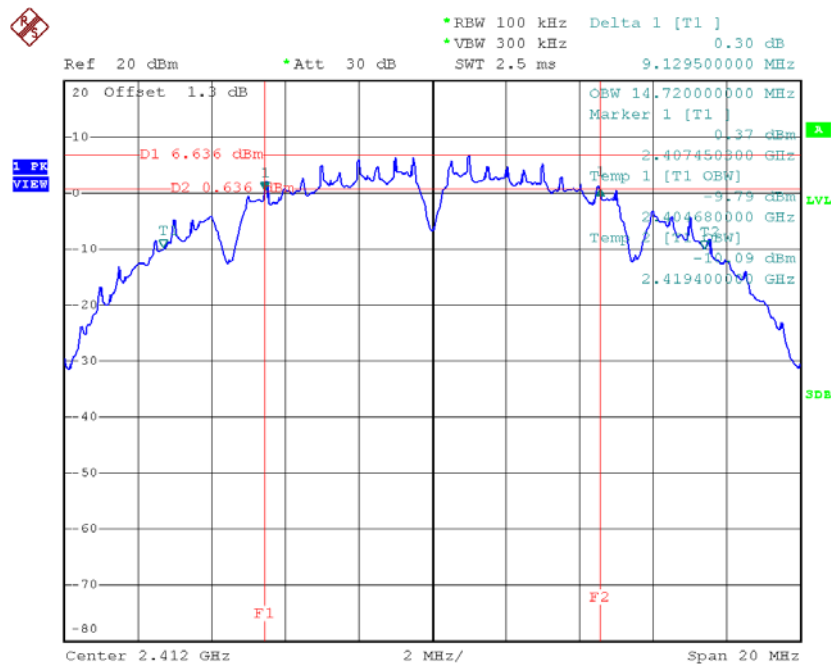
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 4903.5500    | 27.38                      | 3.75                    | 31.13                     | 54.00           | -22.87       | AVG      |         |
| 2   | 4914.5500    | 37.65                      | 3.77                    | 41.42                     | 74.00           | -32.58       | Peak     |         |

## APPENDIX E - BANDWIDTH

Test Mode: TX B Mode\_CH01/06/11

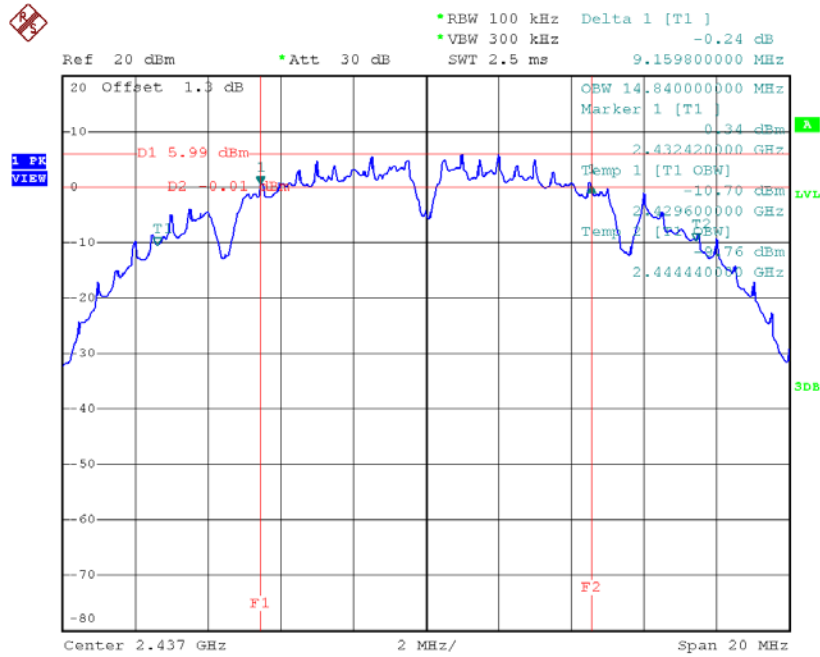
| Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|----------------------|-----------------------|------------------|-------------|
| 2412            | 9.13                 | 14.72                 | 500              | Complies    |
| 2437            | 9.16                 | 14.84                 | 500              | Complies    |
| 2462            | 9.62                 | 14.72                 | 500              | Complies    |

TX CH01



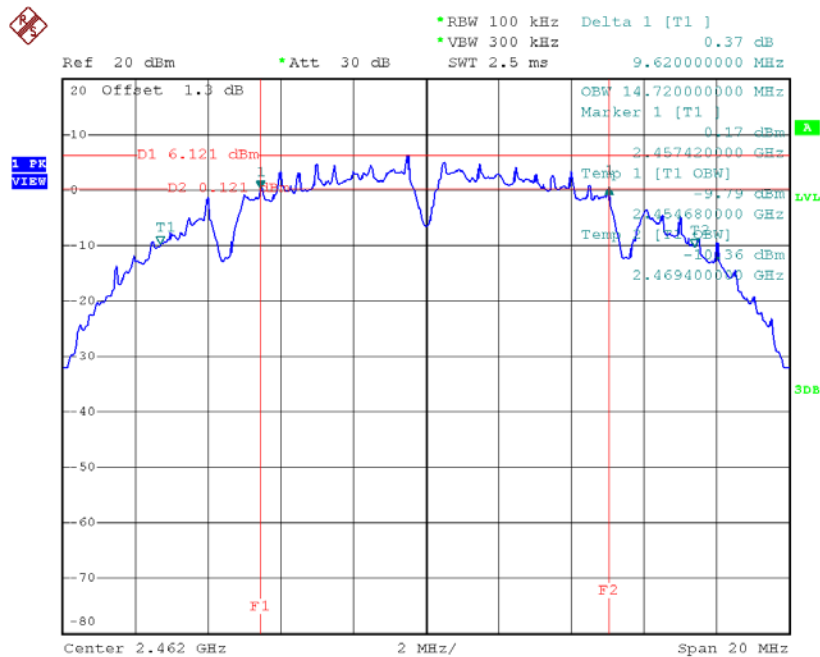
Date: 12.OCT.2018 17:25:31

### TX CH06



Date: 12.OCT.2018 17:27:30

### TX CH11

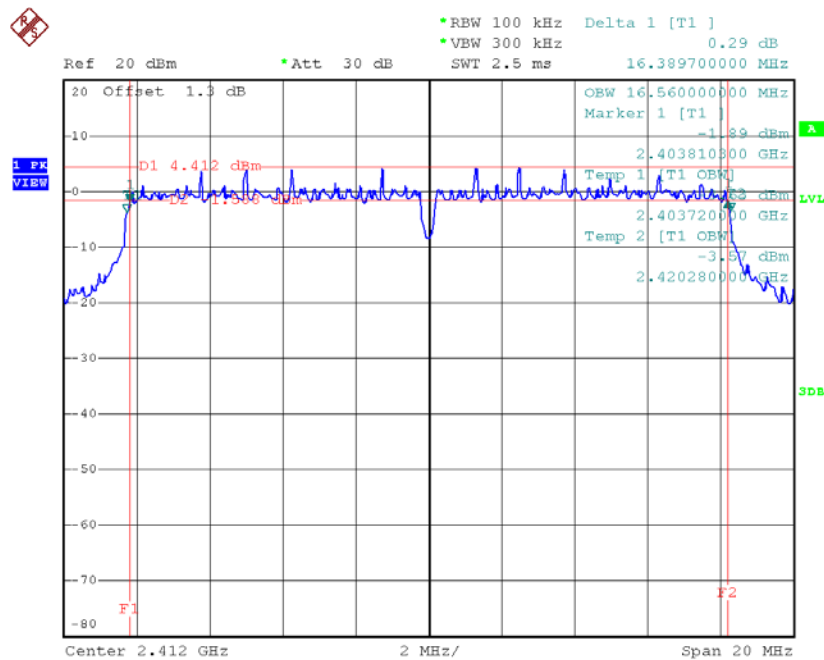


Date: 12.OCT.2018 17:30:00

Test Mode: TX G Mode\_CH01/06/11

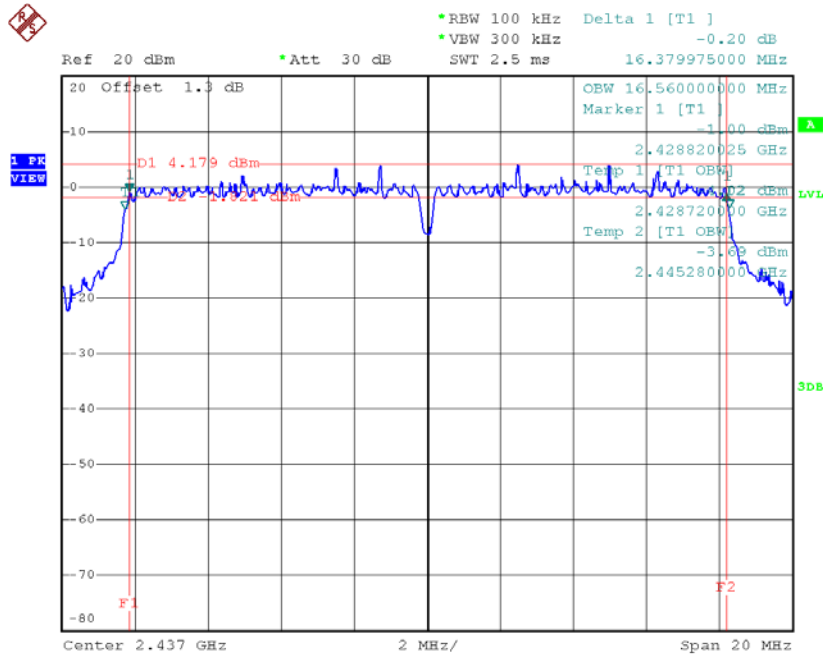
| Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|----------------------|-----------------------|------------------|-------------|
| 2412            | 16.39                | 16.56                 | 500              | Complies    |
| 2437            | 16.38                | 16.56                 | 500              | Complies    |
| 2462            | 16.42                | 16.52                 | 500              | Complies    |

TX CH01



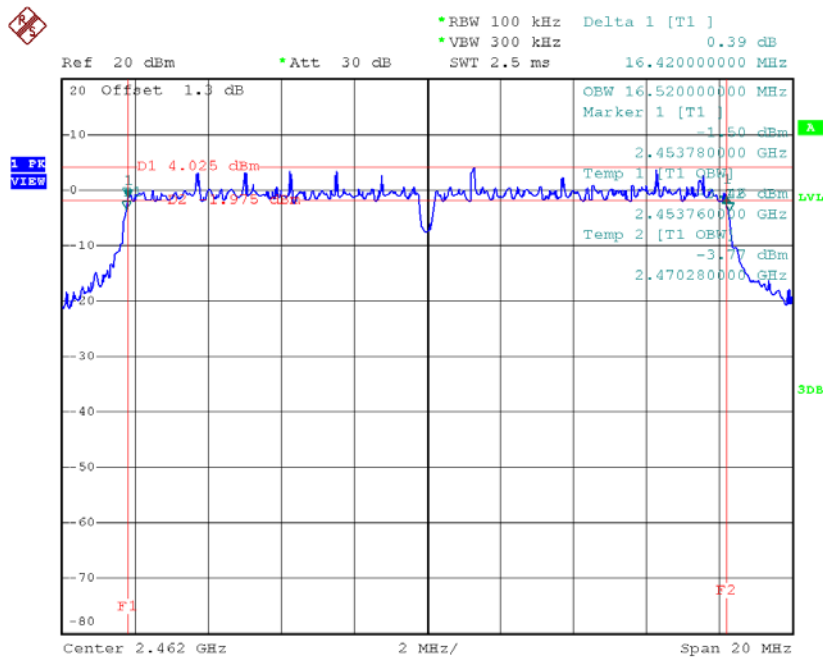
Date: 12.OCT.2018 17:33:28

### TX CH06



Date: 12.OCT.2018 17:35:04

### TX CH11

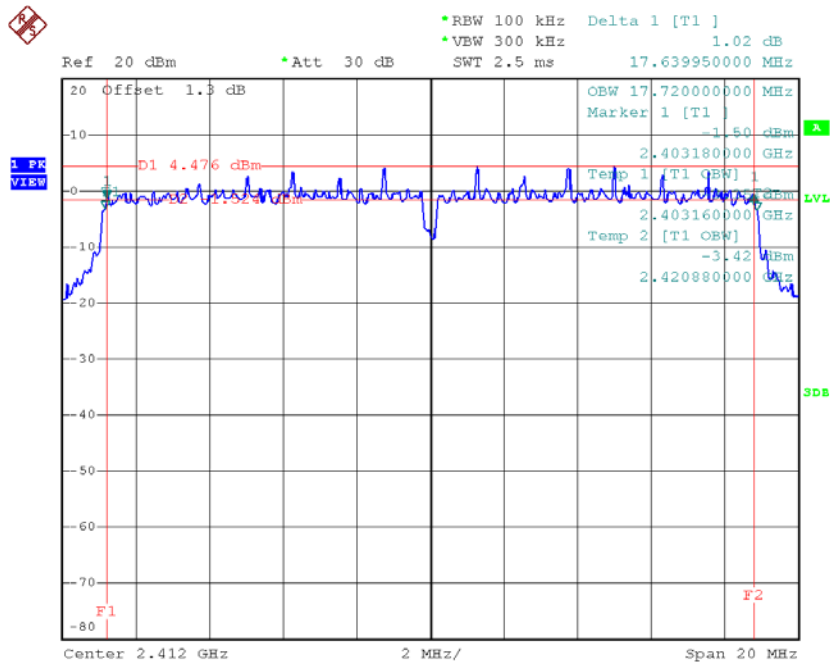


Date: 12.OCT.2018 17:36:52

Test Mode: TX N-20MHz Mode\_CH01/06/11

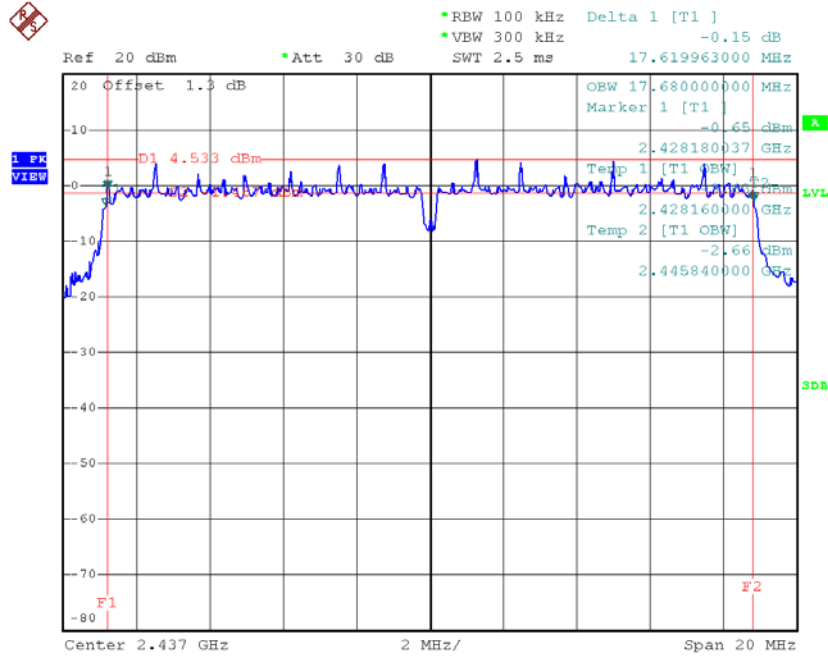
| Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|----------------------|-----------------------|------------------|-------------|
| 2412            | 17.64                | 17.72                 | 500              | Complies    |
| 2437            | 17.62                | 17.68                 | 500              | Complies    |
| 2462            | 17.64                | 17.68                 | 500              | Complies    |

TX CH01



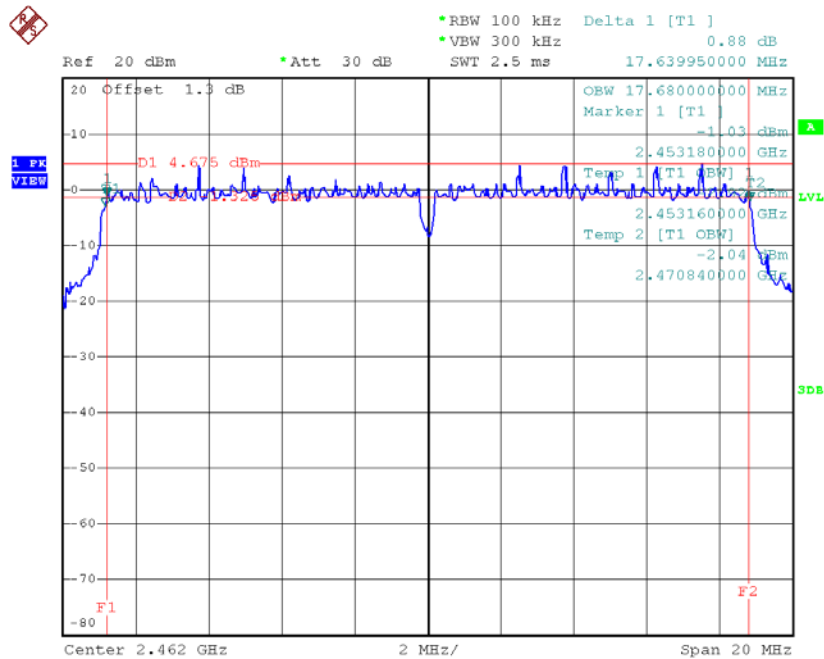
Date: 12.OCT.2018 17:41:21

### TX CH06



Date: 12.OCT.2018 17:42:53

### TX CH11

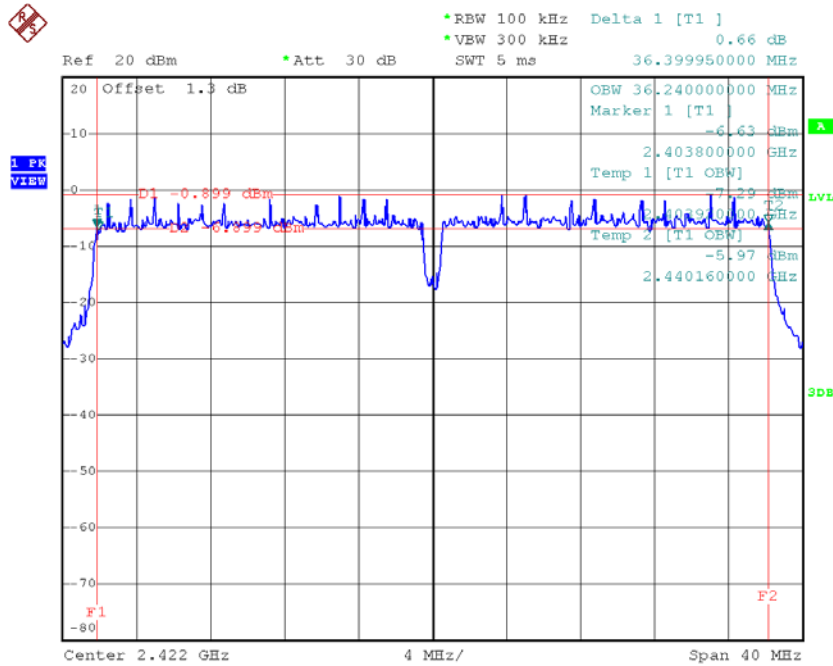


Date: 12.OCT.2018 17:44:44

**Test Mode: TX N-40MHz Mode\_CH03/06/09**

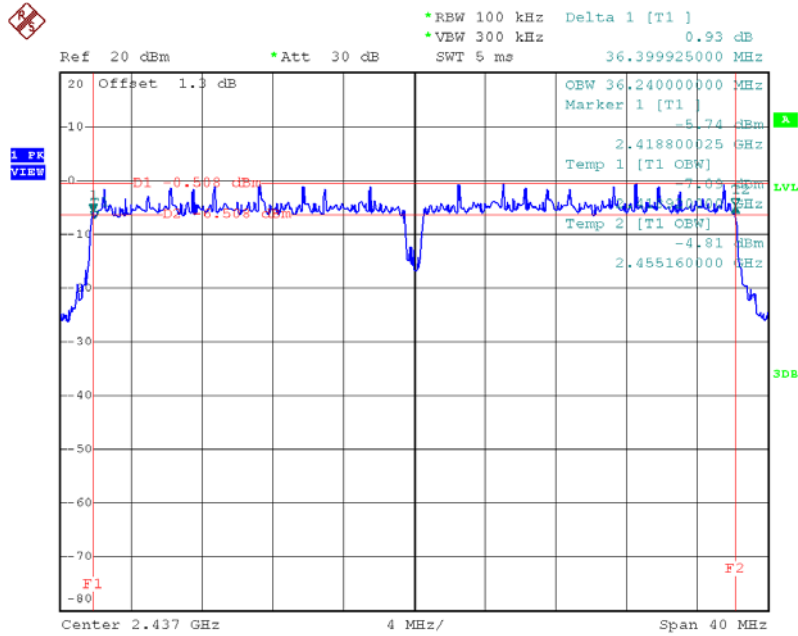
| Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Occupied BW (MHz) | Min. Limit (kHz) | Test Result |
|-----------------|----------------------|-----------------------|------------------|-------------|
| 2422            | 36.40                | 36.24                 | 500              | Complies    |
| 2437            | 36.40                | 36.24                 | 500              | Complies    |
| 2452            | 36.49                | 36.32                 | 500              | Complies    |

**TX CH03**



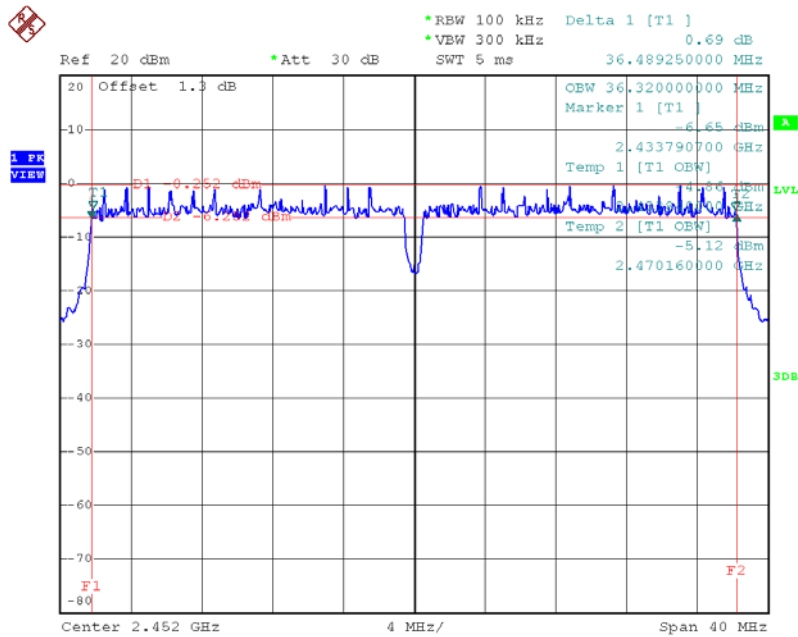
Date: 12.OCT.2018 17:46:52

### TX CH06



Date: 12.OCT.2018 17:49:33

### TX CH09



Date: 12.OCT.2018 17:51:31

## APPENDIX F - MAXIMUM OUTPUT POWER

| Test Mode: TX B Mode_CH01/06/11_ANT 1 |                    |                  |                  |                |          |
|---------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                       | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                  | 17.84              | 0.06             | 30.00            | 1.00           | Complies |
| 2437                                  | 17.98              | 0.06             | 30.00            | 1.00           | Complies |
| 2462                                  | 17.83              | 0.06             | 30.00            | 1.00           | Complies |

| Test Mode: TX B Mode_CH01/06/11_ANT 2 |                    |                  |                  |                |          |
|---------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                       | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                  | 17.76              | 0.06             | 30.00            | 1.00           | Complies |
| 2437                                  | 17.97              | 0.06             | 30.00            | 1.00           | Complies |
| 2462                                  | 17.71              | 0.06             | 30.00            | 1.00           | Complies |

| Test Mode: TX B Mode_CH01/06/11_Total |                    |                  |                  |                |          |
|---------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                       | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                  | 20.81              | 0.12             | 30.00            | 1.00           | Complies |
| 2437                                  | 20.99              | 0.13             | 30.00            | 1.00           | Complies |
| 2462                                  | 20.78              | 0.12             | 30.00            | 1.00           | Complies |

| Test Mode: TX G Mode_CH01/06/11_ANT 1 |                    |                  |                  |                |          |
|---------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                       | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                  | 20.91              | 0.12             | 30.00            | 1.00           | Complies |
| 2437                                  | 20.96              | 0.12             | 30.00            | 1.00           | Complies |
| 2462                                  | 20.97              | 0.13             | 30.00            | 1.00           | Complies |

| Test Mode: TX G Mode_CH01/06/11_ANT 2 |                    |                  |                  |                |          |
|---------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                       | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                  | 20.69              | 0.12             | 30.00            | 1.00           | Complies |
| 2437                                  | 21.21              | 0.13             | 30.00            | 1.00           | Complies |
| 2462                                  | 20.81              | 0.12             | 30.00            | 1.00           | Complies |

| Test Mode: TX G Mode_CH01/06/11_Total |                    |                  |                  |                |          |
|---------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                       | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                  | 23.81              | 0.24             | 30.00            | 1.00           | Complies |
| 2437                                  | 24.10              | 0.26             | 30.00            | 1.00           | Complies |
| 2462                                  | 23.90              | 0.25             | 30.00            | 1.00           | Complies |

| Test Mode: TX N20 Mode_CH01/06/11_ANT 1 |                    |                  |                  |                |          |
|-----------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                    | 20.84              | 0.12             | 30.00            | 1.00           | Complies |
| 2437                                    | 21.03              | 0.13             | 30.00            | 1.00           | Complies |
| 2462                                    | 21.13              | 0.13             | 30.00            | 1.00           | Complies |

| Test Mode: TX N20 Mode_CH01/06/11_ANT 2 |                    |                  |                  |                |          |
|-----------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                    | 20.89              | 0.12             | 30.00            | 1.00           | Complies |
| 2437                                    | 21.02              | 0.13             | 30.00            | 1.00           | Complies |
| 2462                                    | 21.36              | 0.14             | 30.00            | 1.00           | Complies |

| Test Mode: TX N20 Mode_CH01/06/11_Total |                    |                  |                  |                |          |
|-----------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2412                                    | 23.88              | 0.24             | 30.00            | 1.00           | Complies |
| 2437                                    | 24.04              | 0.25             | 30.00            | 1.00           | Complies |
| 2462                                    | 24.26              | 0.27             | 30.00            | 1.00           | Complies |

| Test Mode: TX N40 Mode_CH03/06/09_ANT 1 |                    |                  |                  |                |          |
|-----------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2422                                    | 19.35              | 0.09             | 30.00            | 1.00           | Complies |
| 2437                                    | 19.07              | 0.08             | 30.00            | 1.00           | Complies |
| 2452                                    | 19.51              | 0.09             | 30.00            | 1.00           | Complies |

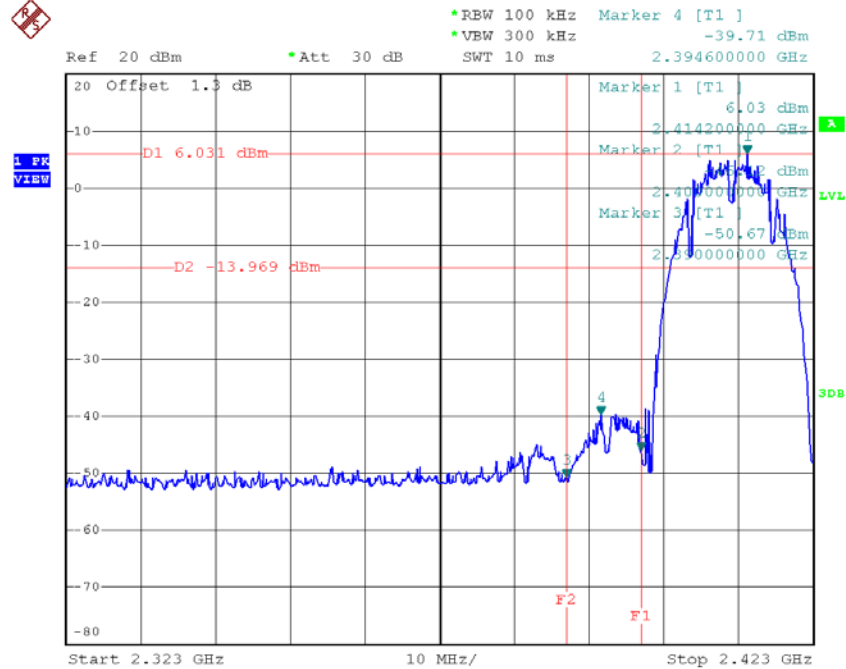
| Test Mode: TX N40 Mode_CH03/06/09_ANT 2 |                    |                  |                  |                |          |
|-----------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2422                                    | 19.14              | 0.08             | 30.00            | 1.00           | Complies |
| 2437                                    | 19.29              | 0.08             | 30.00            | 1.00           | Complies |
| 2452                                    | 19.37              | 0.09             | 30.00            | 1.00           | Complies |

| Test Mode: TX N40 Mode_CH03/06/09_Total |                    |                  |                  |                |          |
|-----------------------------------------|--------------------|------------------|------------------|----------------|----------|
| Frequency (MHz)                         | Output Power (dBm) | Output Power (W) | Max. Limit (dBm) | Max. Limit (W) | Result   |
| 2422                                    | 22.26              | 0.17             | 30.00            | 1.00           | Complies |
| 2437                                    | 22.19              | 0.17             | 30.00            | 1.00           | Complies |
| 2452                                    | 22.45              | 0.18             | 30.00            | 1.00           | Complies |

## APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

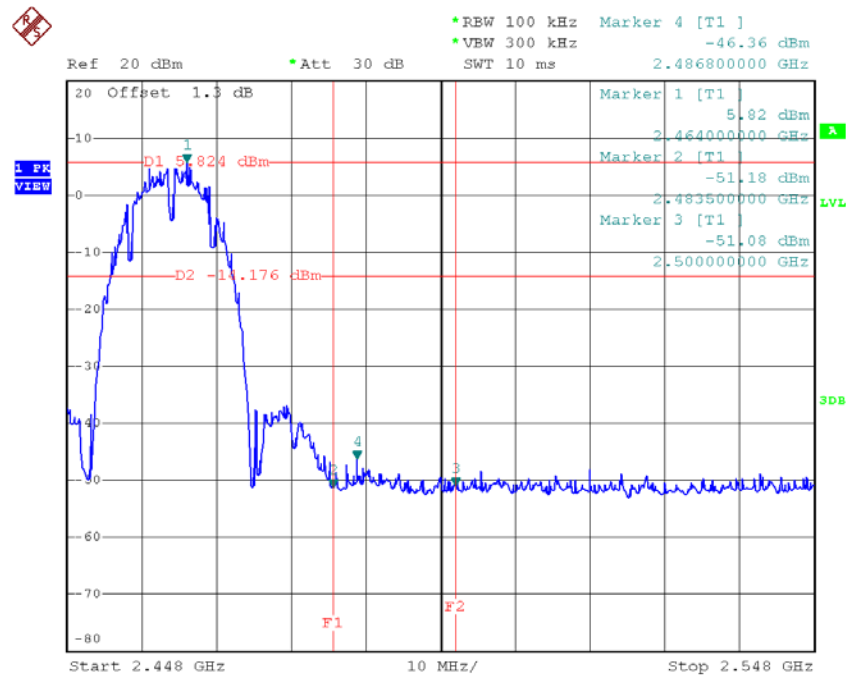
Test Mode: TX B Mode\_ANT 1

### TX B mode CH01



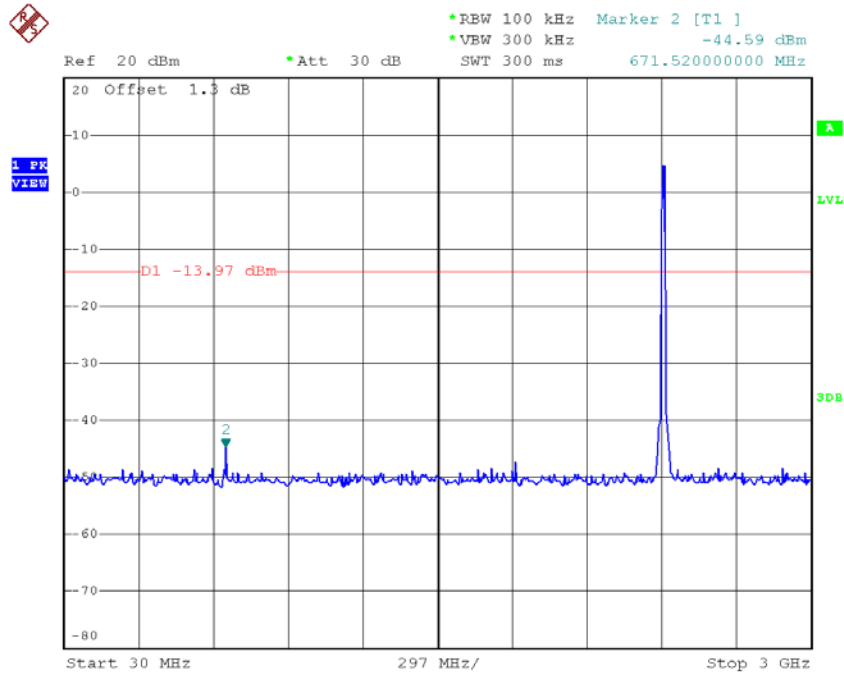
Date: 12.OCT.2018 17:25:40

### TX B mode CH11

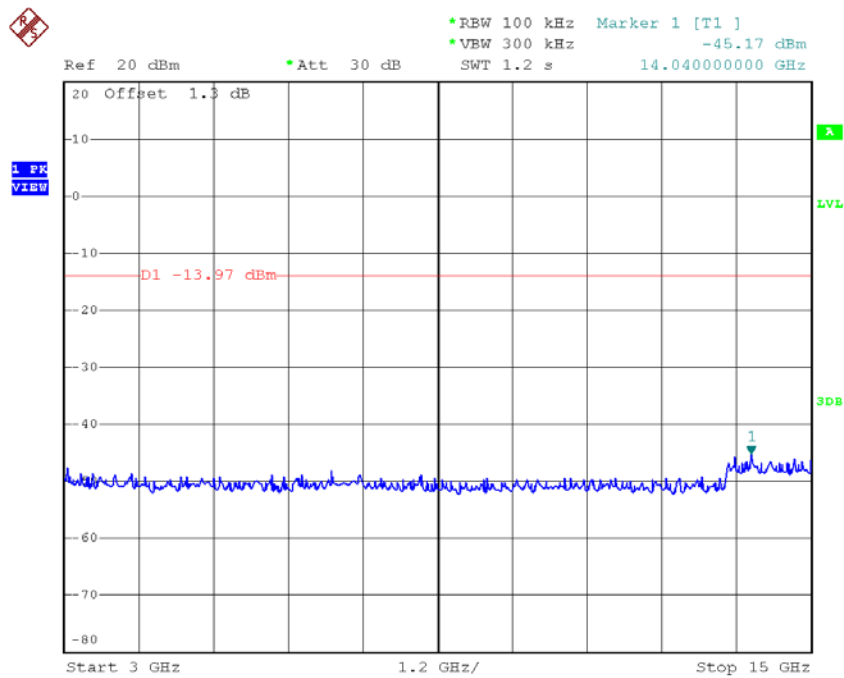


Date: 12.OCT.2018 17:30:09

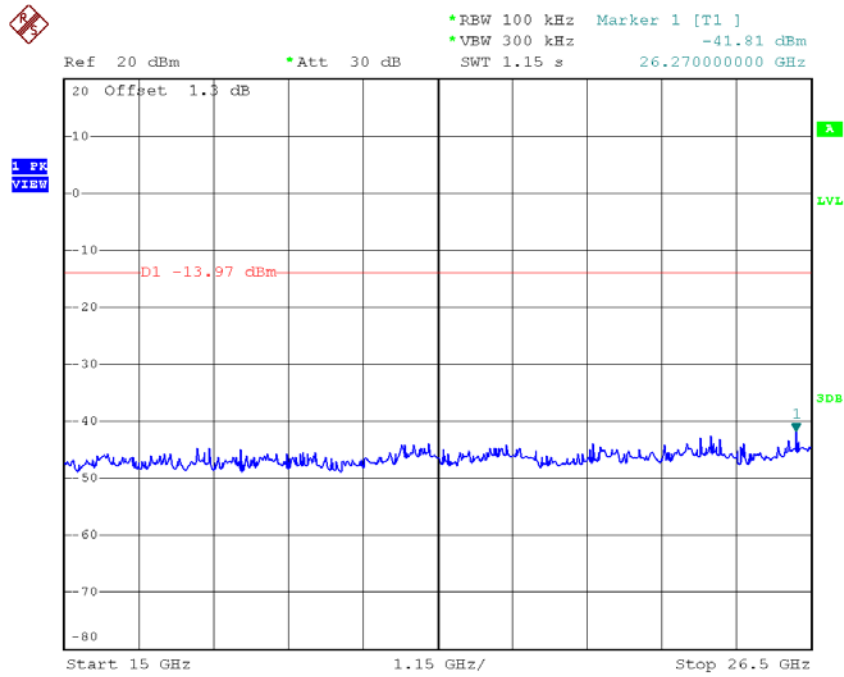
### TX B mode CH01 (10 Harmonic of the frequency)



Date: 12.OCT.2018 17:25:54

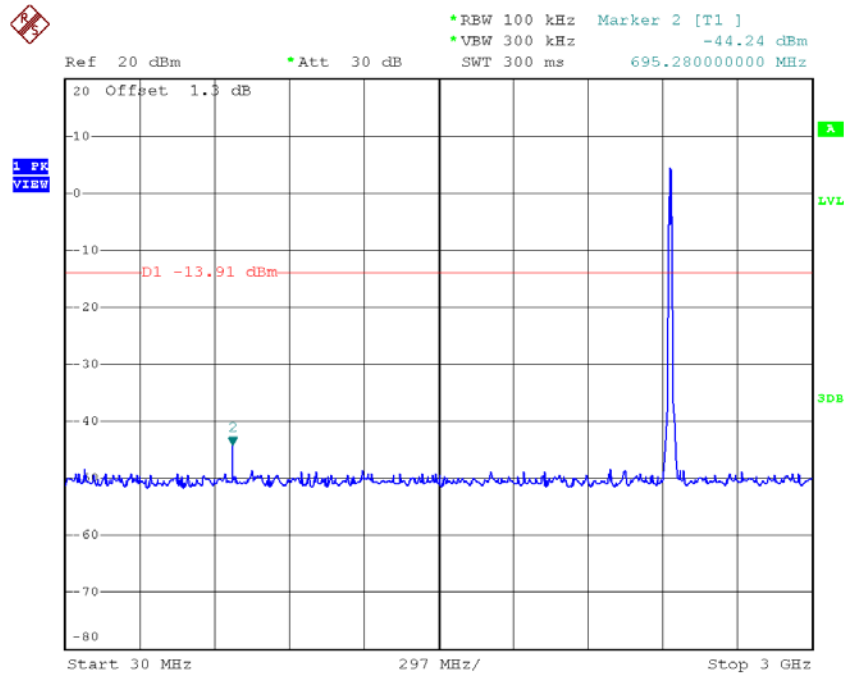


Date: 12.OCT.2018 17:26:03

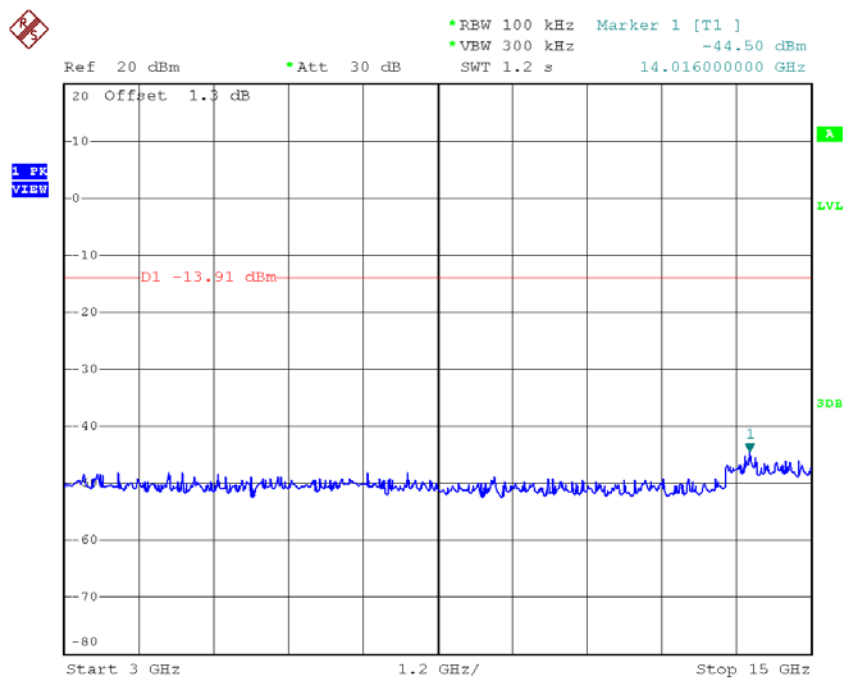


Date: 12.OCT.2018 17:26:12

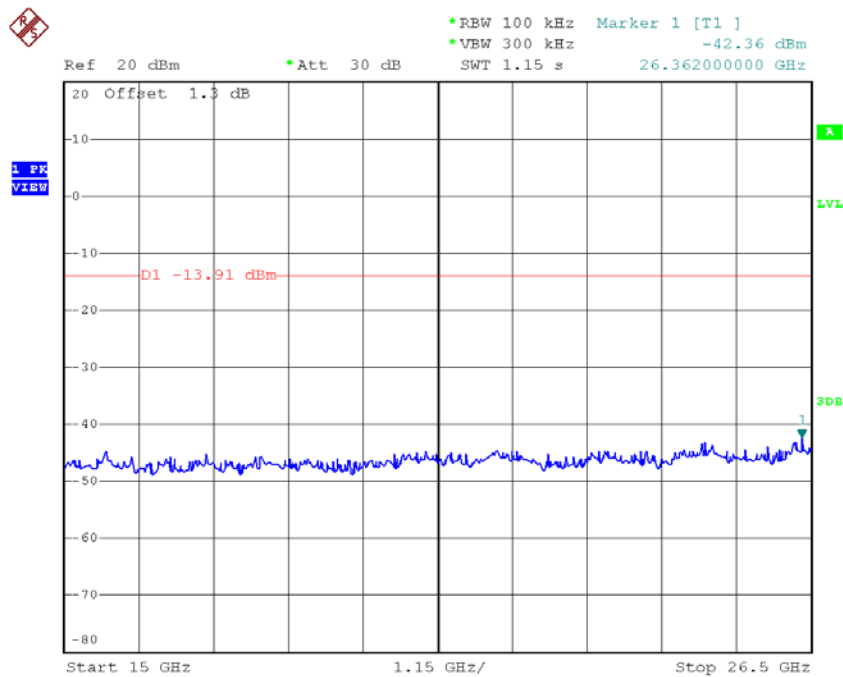
### TX B mode CH06 (10 Harmonic of the frequency)



Date: 12.OCT.2018 17:27:53

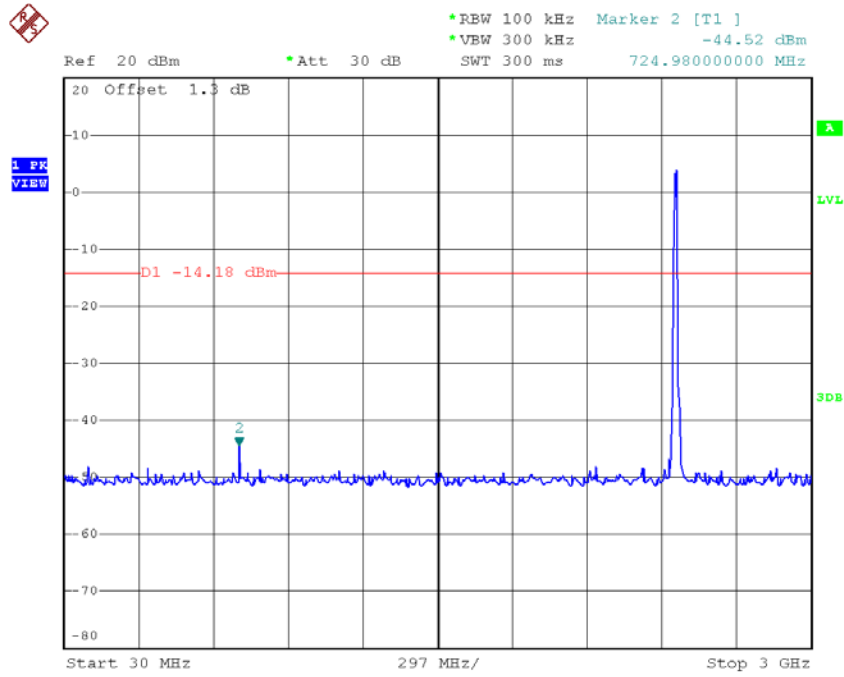


Date: 12.OCT.2018 17:28:02

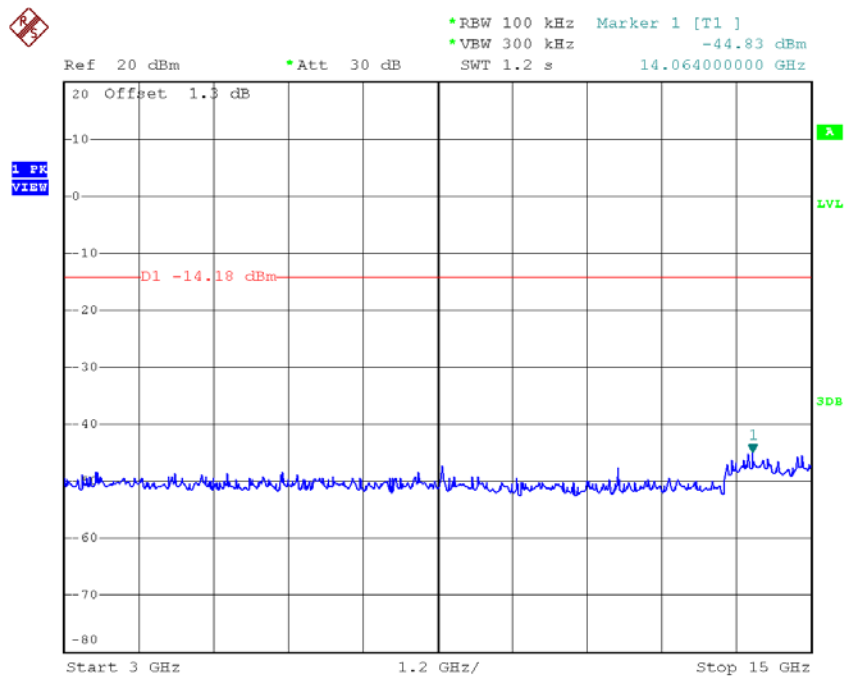


Date: 12.OCT.2018 17:28:11

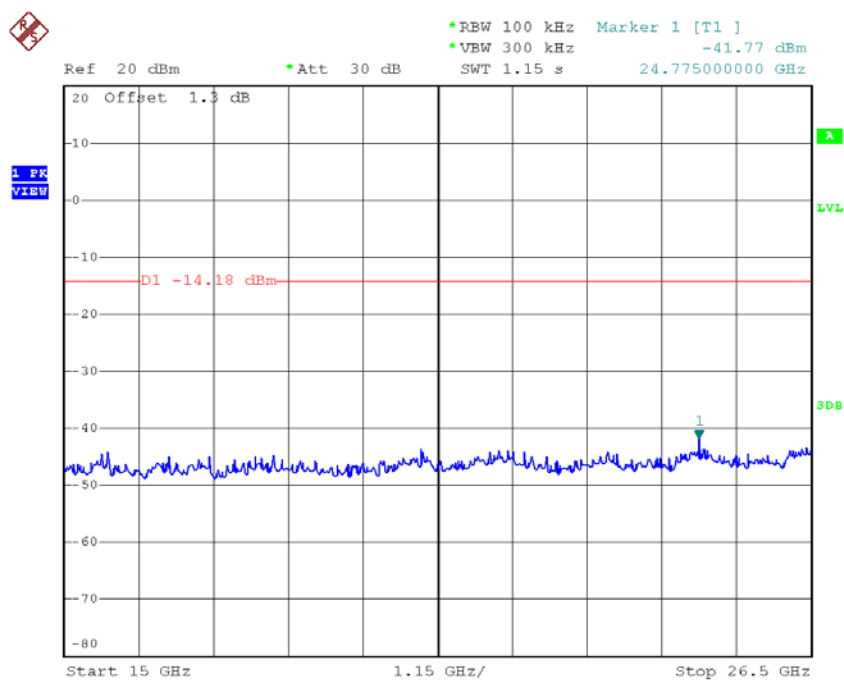
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 12.OCT.2018 17:30:23



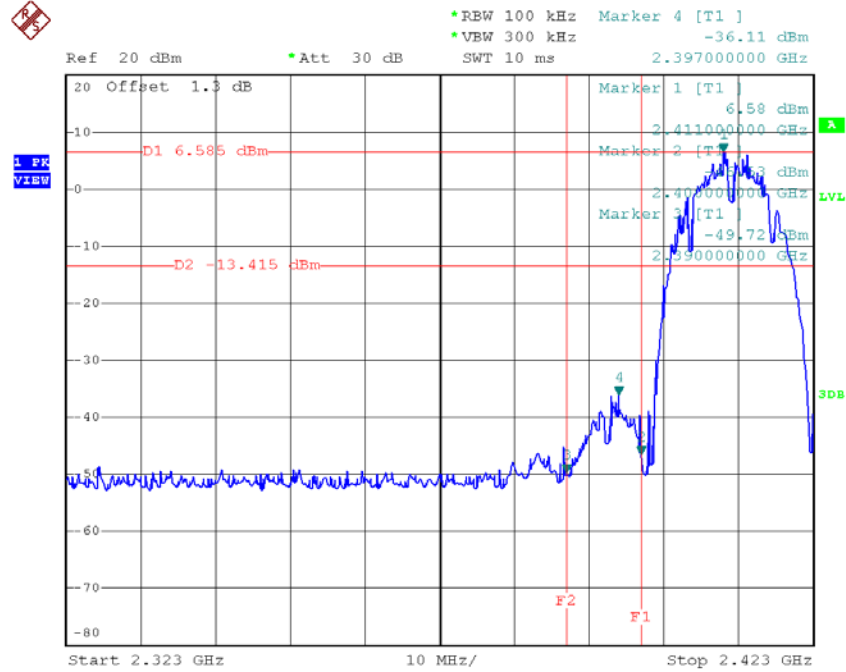
Date: 12.OCT.2018 17:30:32



Date: 12.OCT.2018 17:30:41

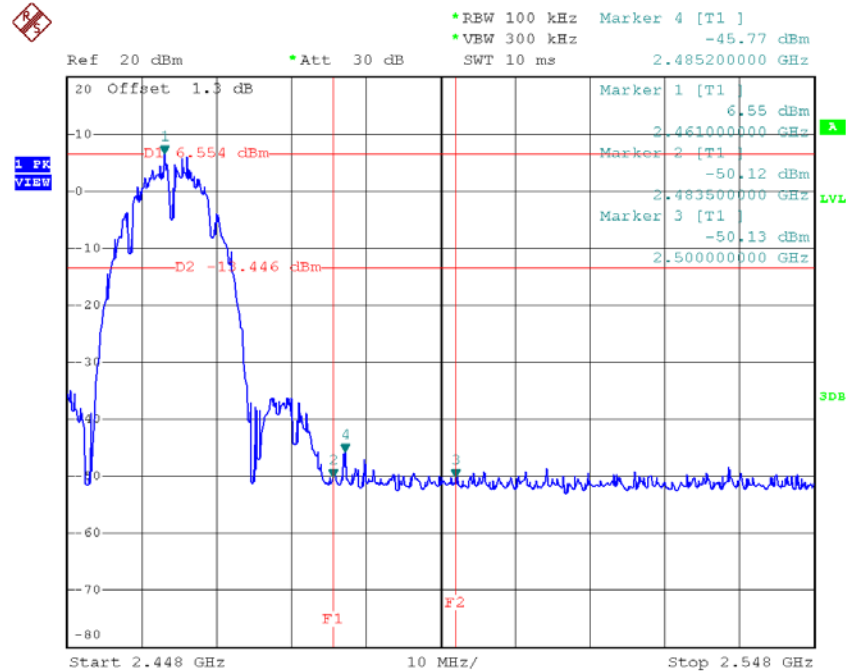
Test Mode: TX B Mode\_ANT 2

### TX B mode CH01



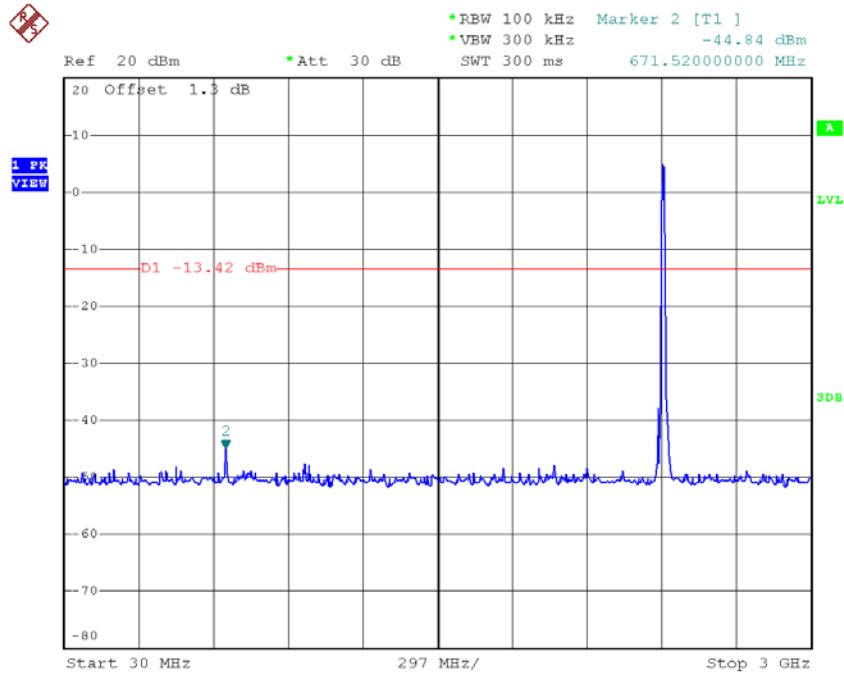
Date: 12.OCT.2018 18:40:17

### TX B mode CH11

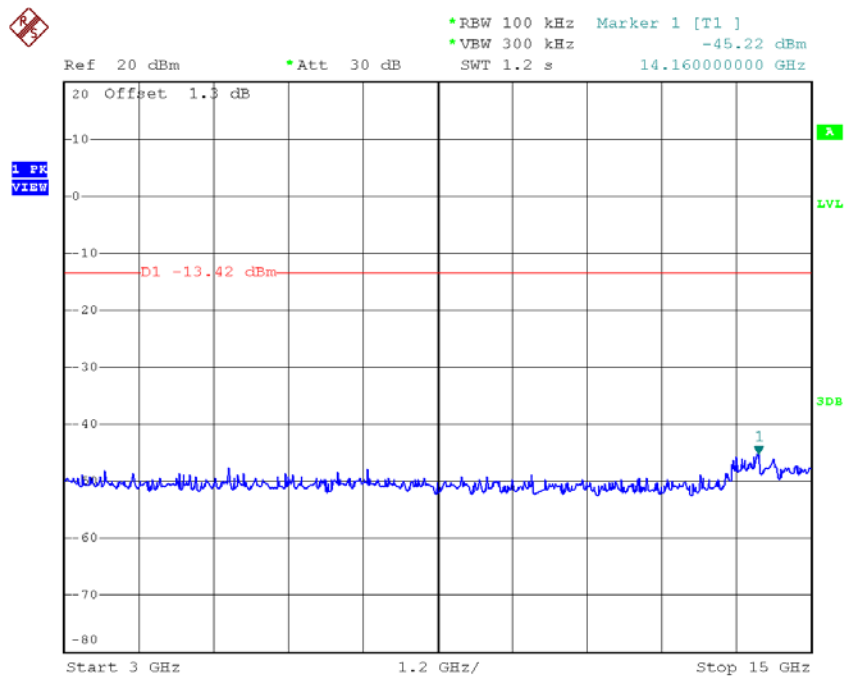


Date: 12.OCT.2018 18:44:29

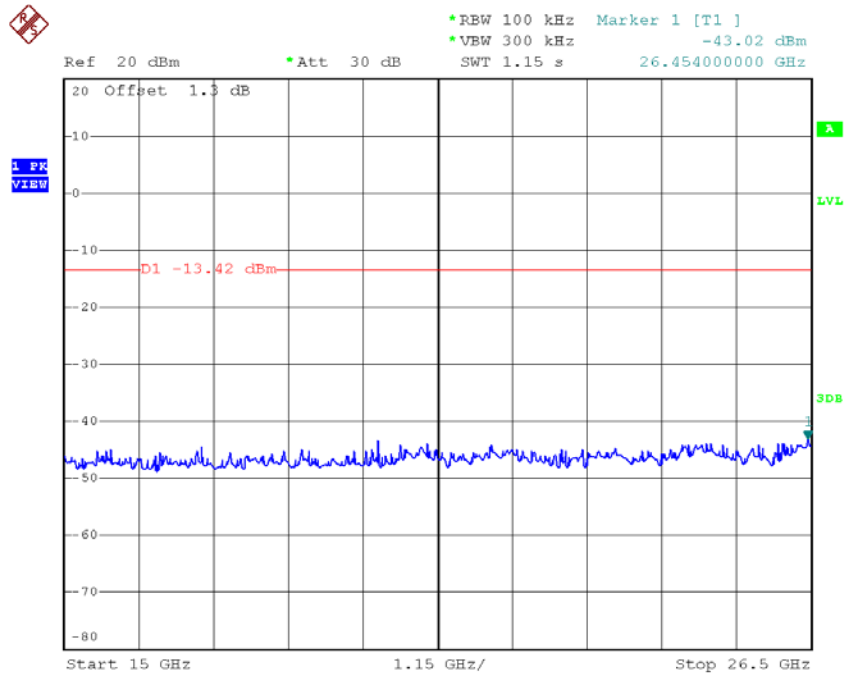
### TX B mode CH01 (10 Harmonic of the frequency)



Date: 12.OCT.2018 18:40:31

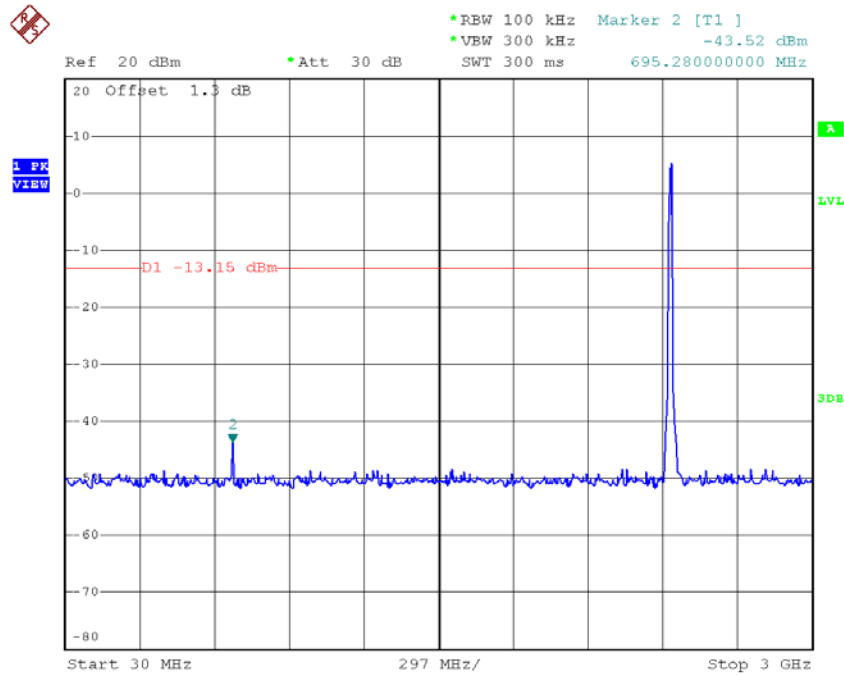


Date: 12.OCT.2018 18:40:40

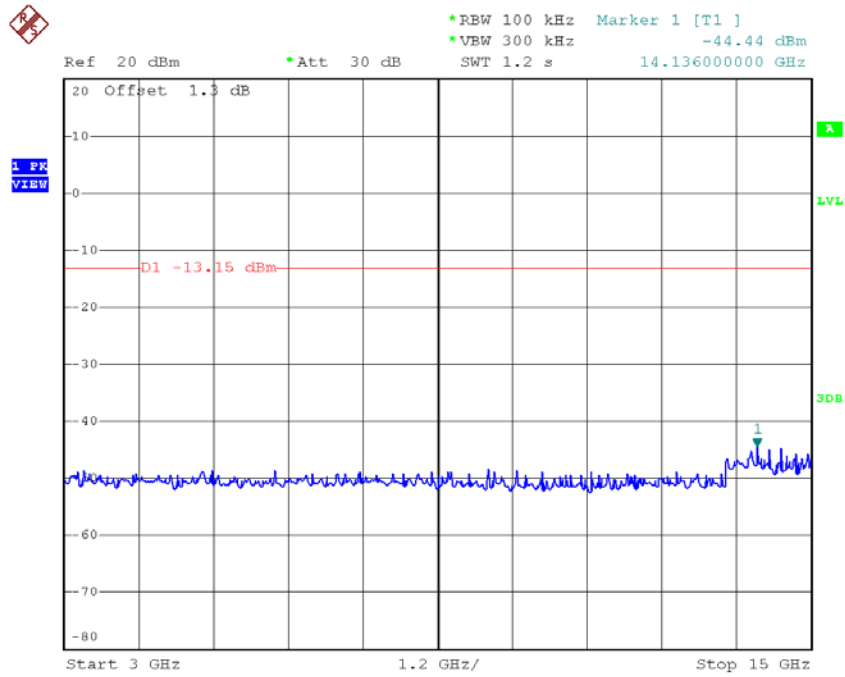


Date: 12.OCT.2018 18:40:49

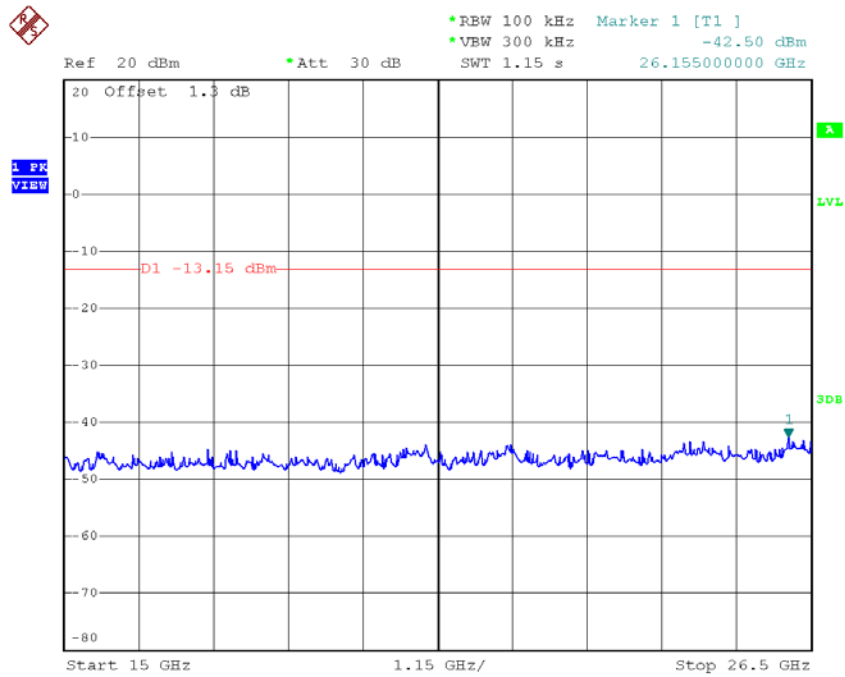
### TX B mode CH06 (10 Harmonic of the frequency)



Date: 12.OCT.2018 18:42:30

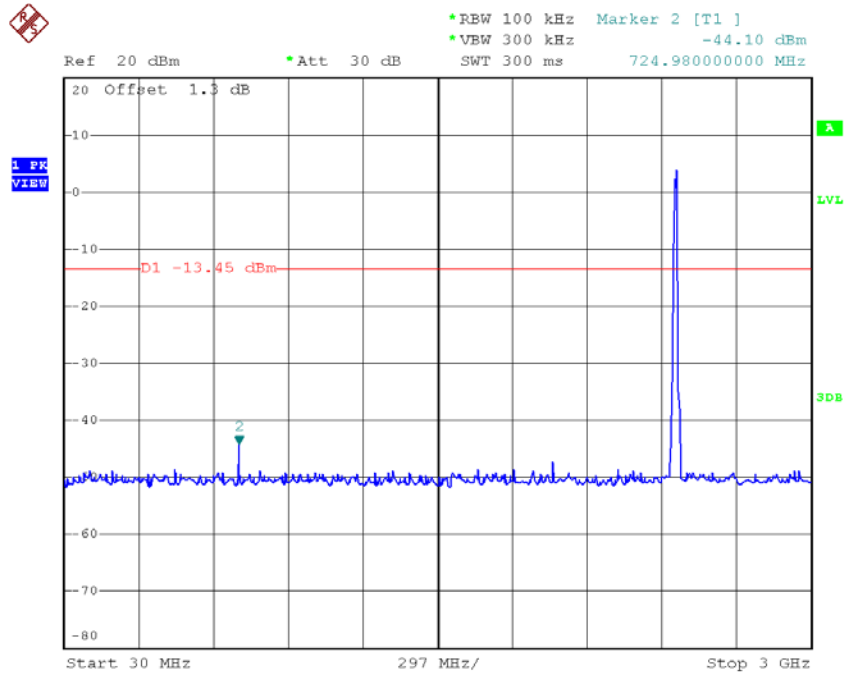


Date: 12.OCT.2018 18:42:39

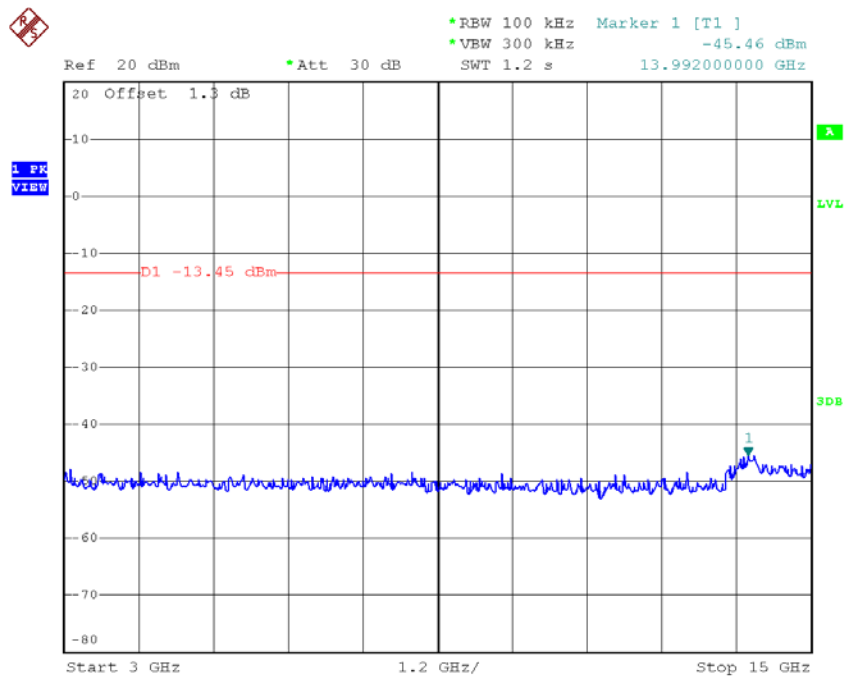


Date: 12.OCT.2018 18:42:48

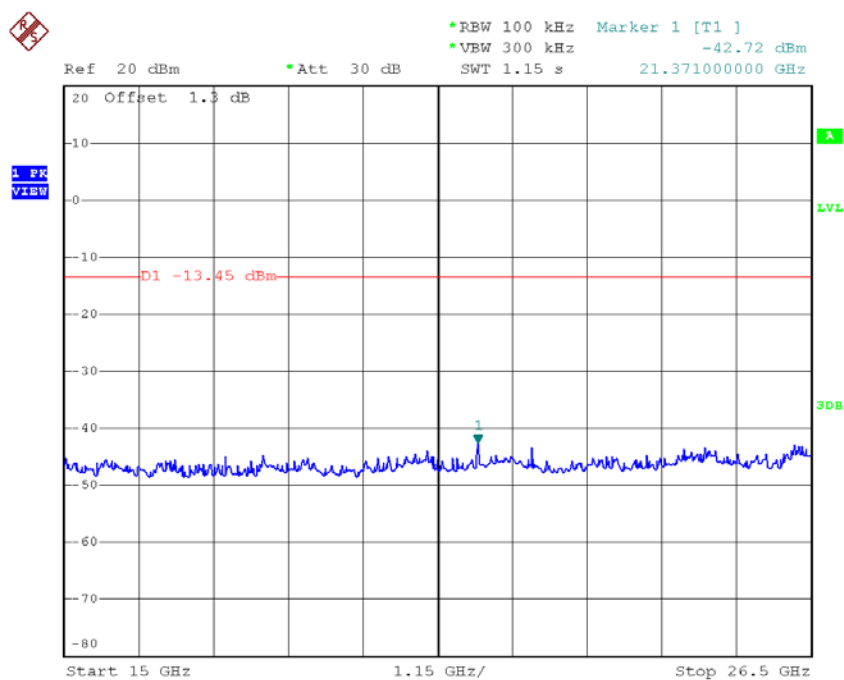
### TX B mode CH11 (10 Harmonic of the frequency)



Date: 12.OCT.2018 18:44:43



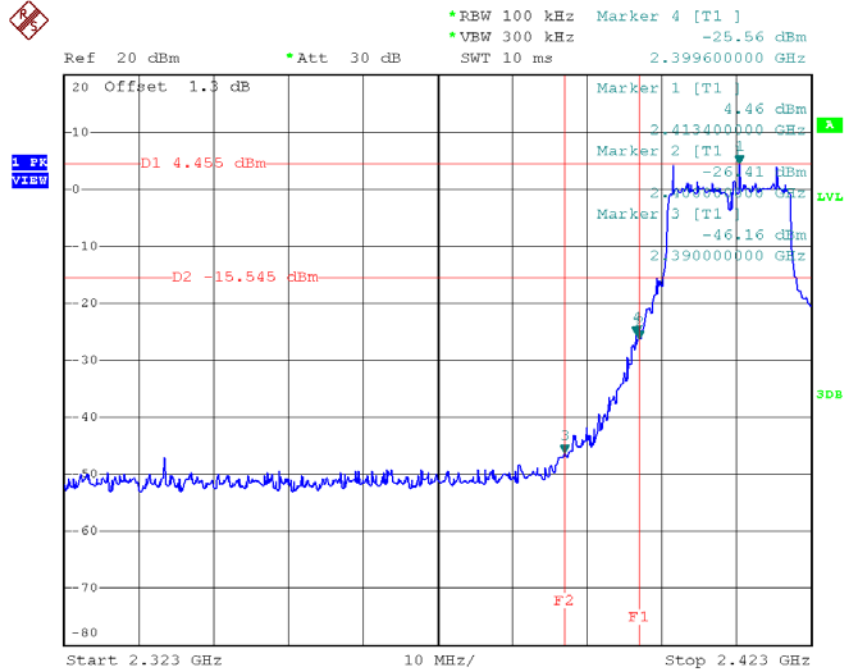
Date: 12.OCT.2018 18:44:52



Date: 12.OCT.2018 18:45:01

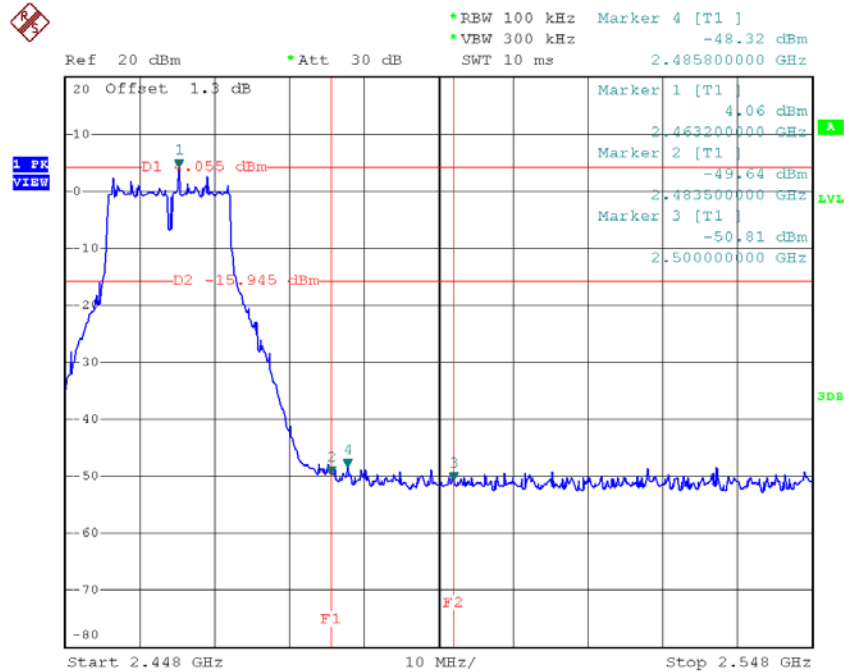
Test Mode: TX G Mode\_ANT 1

### TX G mode CH01



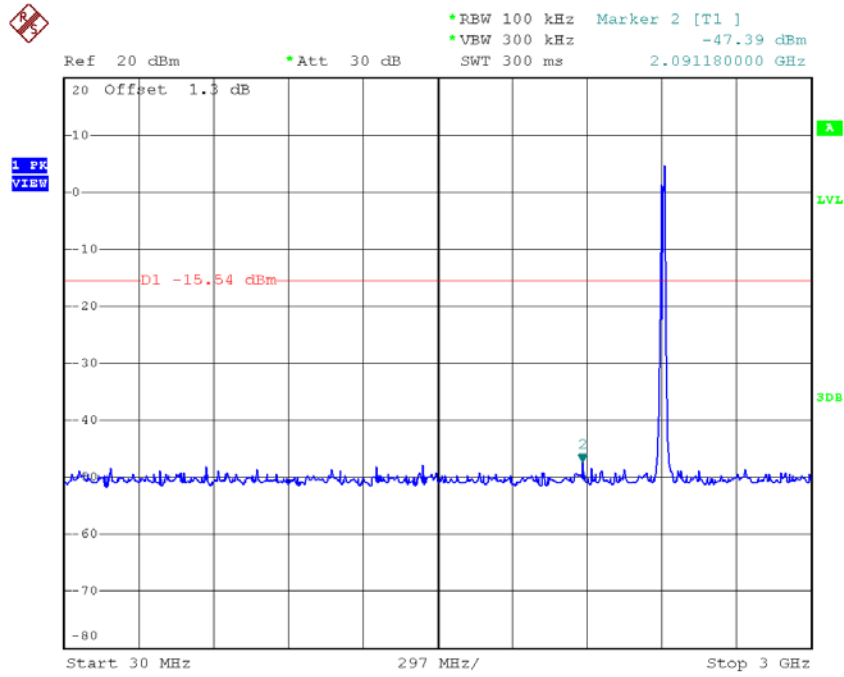
Date: 12.OCT.2018 17:33:37

### TX G mode CH11

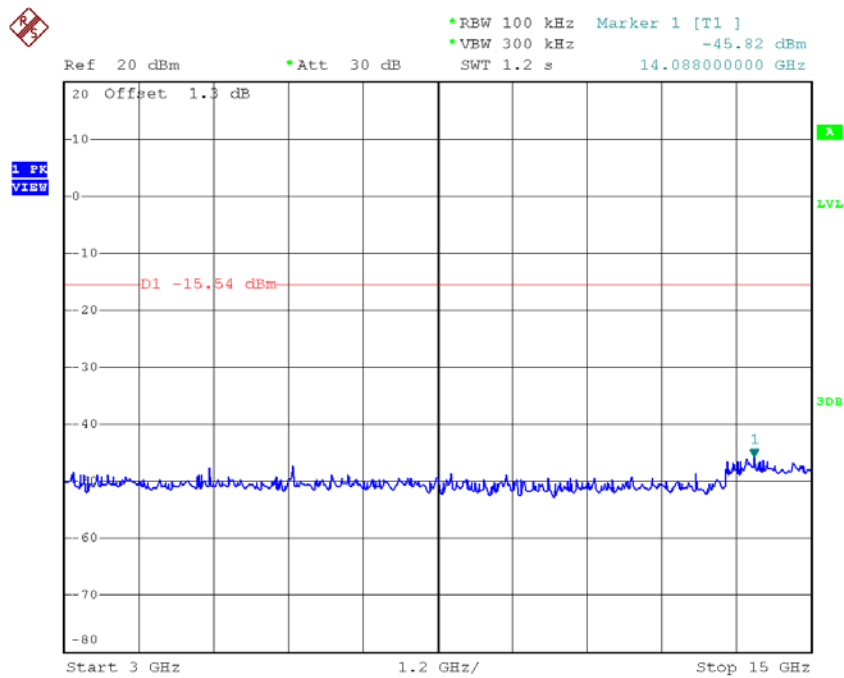


Date: 12.OCT.2018 17:37:01

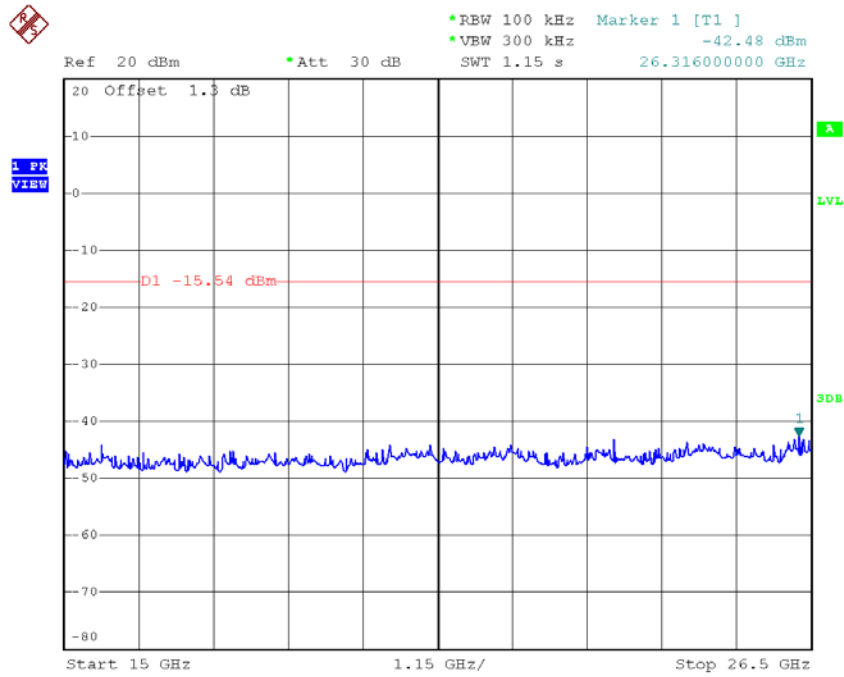
### TX G mode CH01 (10 Harmonic of the frequency)



Date: 12.OCT.2018 17:33:51

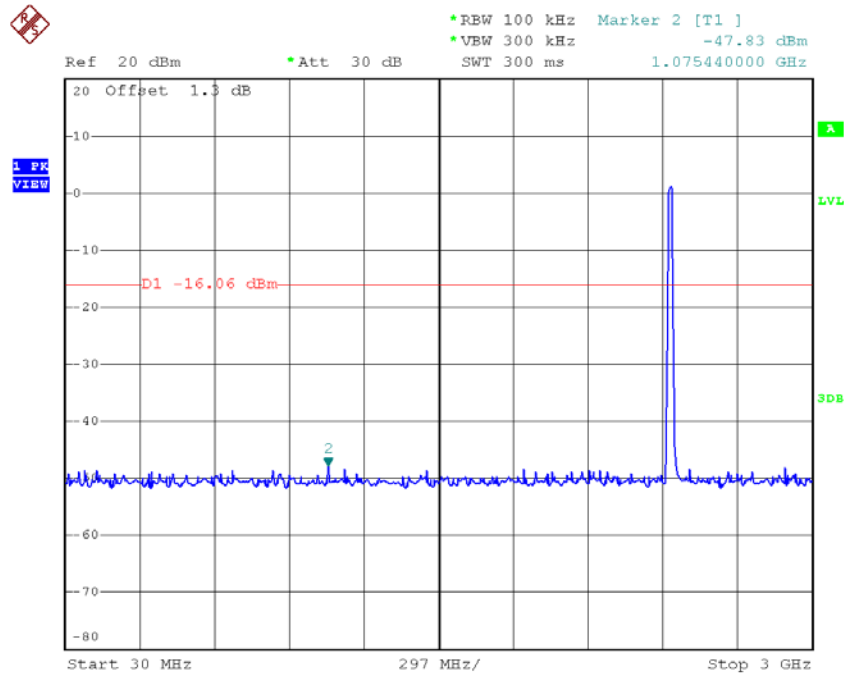


Date: 12.OCT.2018 17:34:00

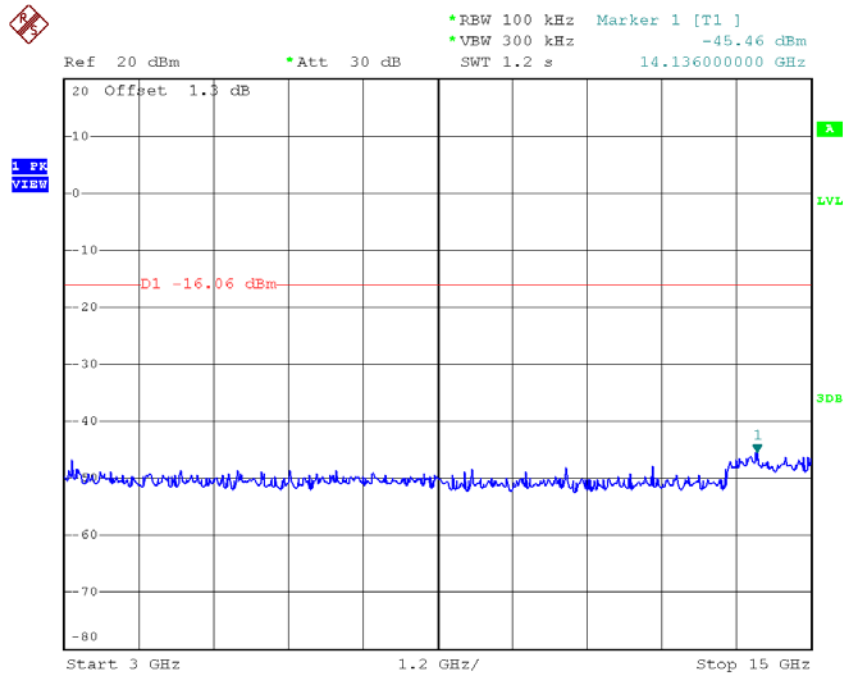


Date: 12.OCT.2018 17:34:09

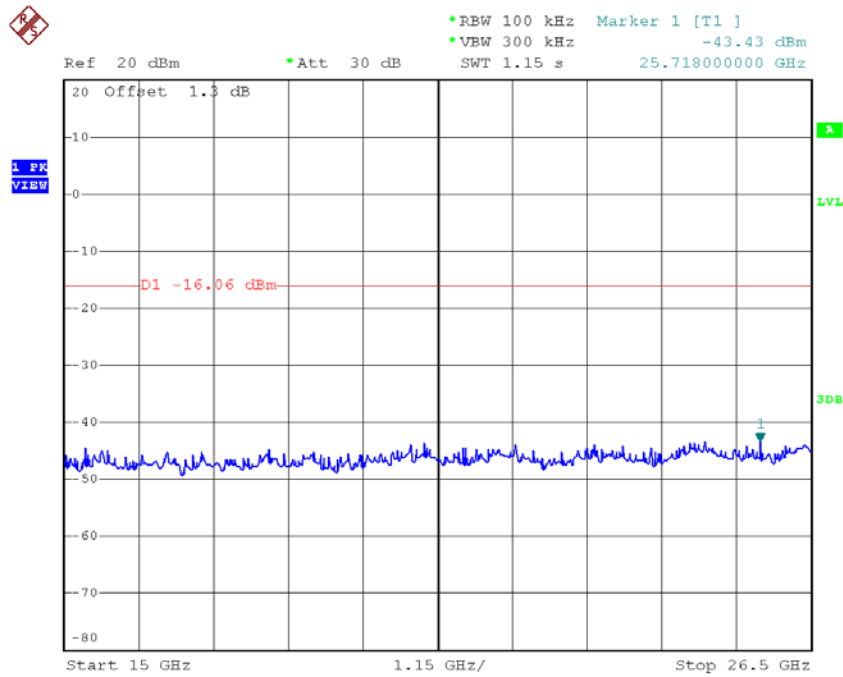
### TX G mode CH06 (10 Harmonic of the frequency)



Date: 12.OCT.2018 17:35:28

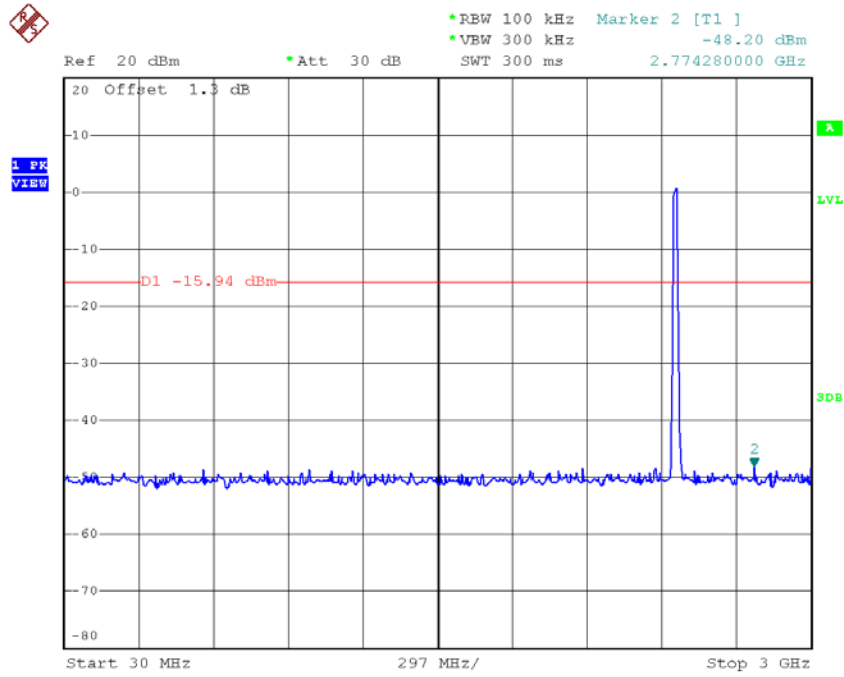


Date: 12.OCT.2018 17:35:37

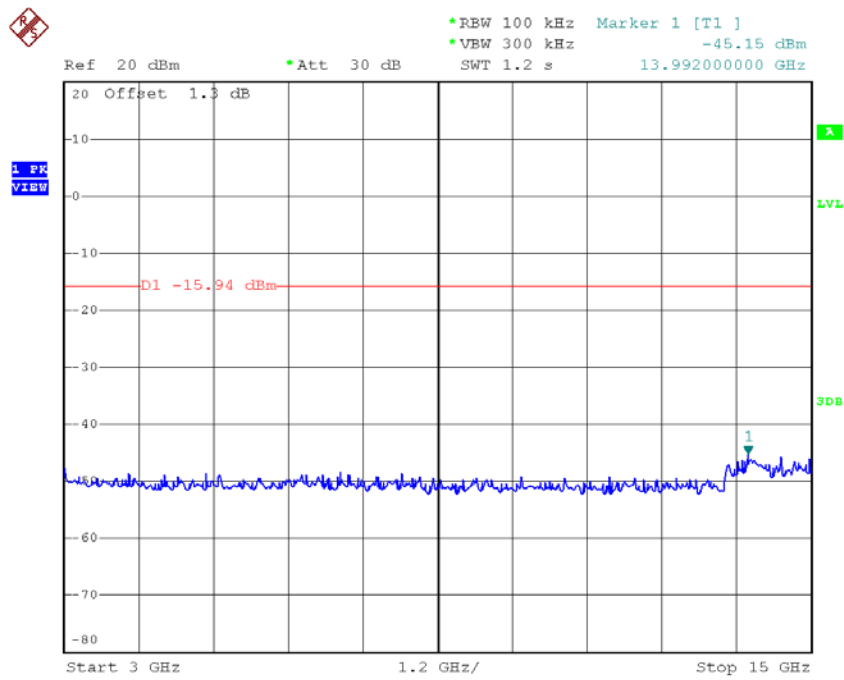


Date: 12.OCT.2018 17:35:45

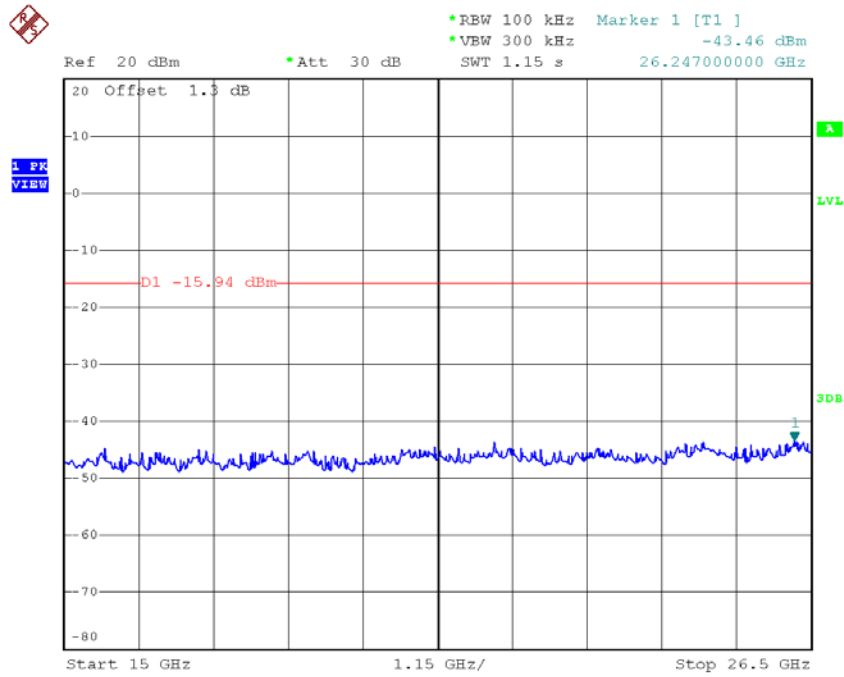
### TX G mode CH11 (10 Harmonic of the frequency)



Date: 12.OCT.2018 17:37:15



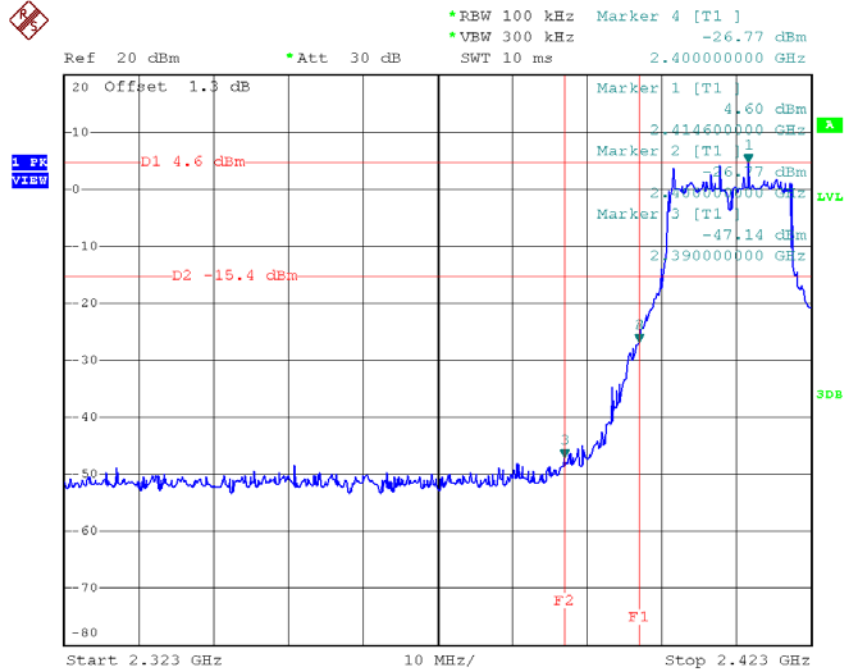
Date: 12.OCT.2018 17:37:25



Date: 12.OCT.2018 17:37:34

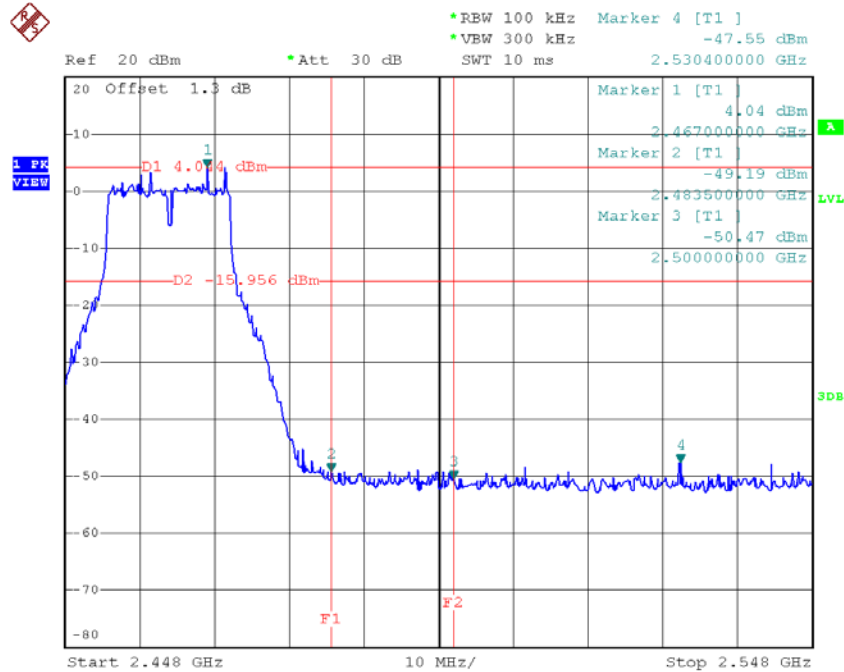
Test Mode: TX G Mode\_ANT 2

### TX G mode CH01



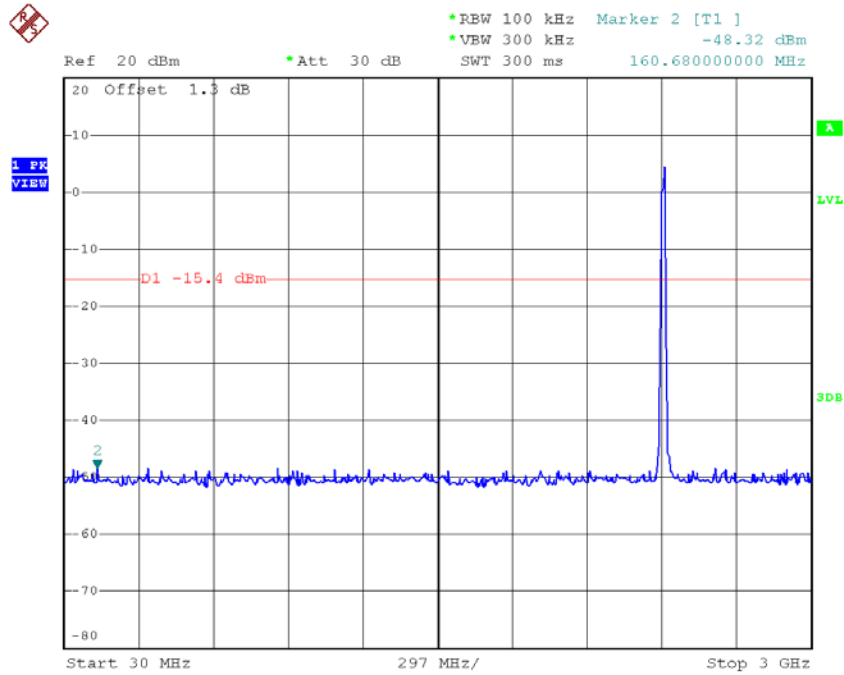
Date: 12.OCT.2018 18:46:22

### TX G mode CH11

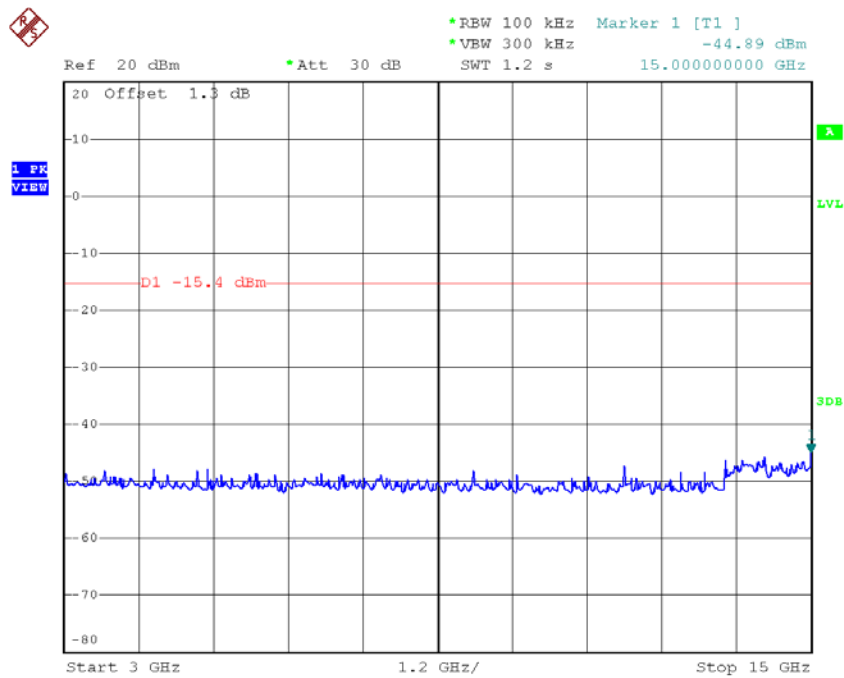


Date: 12.OCT.2018 18:49:52

### TX G mode CH01 (10 Harmonic of the frequency)



Date: 12.OCT.2018 18:46:37



Date: 12.OCT.2018 18:46:46