# FCC Radio Test Report

## FCC ID: TE7X20

**This report concerns: Original Grant**

| | | |
|---|---|---|
| **Project No.** | : | 1910C060 |
| **Equipment** | : | AX1800 Whole Home Mesh Wi-Fi System |
| **Brand Name** | : | tp-link |
| **Test Model** | : | Deco X20 |
| **Series Model** | : | Deco W3600 |
| **Applicant** | : | TP-Link Technologies Co., Ltd. |
| **Address** | : | Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China |
| **Manufacturer** | : | TP-Link Technologies Co., Ltd. |
| **Address** | : | Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China |
| **Date of Receipt** | : | Oct. 14, 2019 |
| **Date of Test** | : | Oct. 15, 2019 ~ Nov. 15, 2019 |
| **Issued Date** | : | Jan. 02, 2020 |
| **Report Version** | : | R00 |
| **Test Sample** | : | Engineering Sample No.: DG2019101528 for conducted, DG2019101529 for radiated. |
| **Standard(s)** | : | FCC Part15, Subpart E(15.407)<br>ANSI C63.10-2013<br>FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01<br>FCC KDB 662911 D01 Multiple Transmitter Output v02r01 |

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

Vincent. Tan

**Prepared by :** Vincent Tan

Ethan Ma

**Approved by :** Ethan Ma

Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town,Dongguan, Guangdong, China.
Tel: +86-769-8318-3000
Web: www.newbtl.com

## Declaration

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and 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.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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## REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|---|---|---|
| R00 | Original Issue. | Jan. 02, 2020 |

# 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| FCC Part15, Subpart E(15.407) | | | | |
|---|---|---|---|---|
| **Standard(s) Section** | **Test Item** | **Test Result** | **Judgement** | **Remark** |
| 15.207<br>15.407(b) | AC Power Line Conducted Emissions | APPENDIX A | PASS | ------ |
| 15.407(b)<br>15.205(a)<br>15.209(a) | Radiated Emissions | APPENDIX B<br>APPENDIX C<br>APPENDIX D | PASS | ------ |
| 15.407(a)<br>15.407(e) | Spectrum Bandwidth | APPENDIX E | PASS | ------ |
| 15.407(a) | Maximum Output Power | APPENDIX F | PASS | ------ |
| 15.407(a) | Power Spectral Density | APPENDIX G | PASS | ------ |
| 15.407(g) | Frequency Stability | APPENDIX H | PASS | ------ |
| 15.203 | Antenna Requirements | ------ | PASS | **NOTE (3)** |
| 15.407(c) | Automatically Discontinue Transmission | ------ | PASS | **NOTE (2)** |

Note:

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

(2) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

(3) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

(4) For UNII-1 this device was functioned as a

☒ Access point device ☐ Client device

## 1.1 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 Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

## 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

| Test Site | Method | Measurement Frequency Range | U, (dB) |
|---|---|---|---|
| DG-C02 | CISPR | 150kHz ~ 30MHz | 2.60 |

B. Radiated emissions test:

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U, (dB) |
|---|---|---|---|---|
| DG-CB03 | CISPR | 9kHz ~ 30MHz | V | 3.79 |
| | | 9kHz ~ 30MHz | H | 3.57 |
| | | 30MHz ~ 200MHz | V | 4.88 |
| | | 30MHz ~ 200MHz | H | 4.14 |
| | | 200MHz ~ 1,000MHz | V | 4.62 |
| | | 200MHz ~ 1,000MHz | H | 4.80 |
| | | 1GHz ~ 6GHz | - | 4.58 |
| | | 6GHz ~ 18GHz | - | 5.18 |
| | | 18GHz ~ 26.5GHz | - | 3.62 |
| | | 26.5GHz ~ 40GHz | - | 4.00 |

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

## 1.3 TEST ENVIRONMENT CONDITIONS

| Test Item | Temperature | Humidity | Test Voltage | Tested By |
|---|---|---|---|---|
| AC Power Line Conducted Emissions | 25°C | 53% | AC 120V/60Hz | Laughing Zhang |
| Radiated Emissions-9K-30MHz | 25°C | 60% | AC 120V/60Hz | Laughing Zhang |
| Radiated Emissions-30 MHz to 1GHz | 24°C | 68% | AC 120V/60Hz | Kwok Guo |
| Radiated Emissions-Above 1000 MHz | 26°C | 65% | AC 120V/60Hz | Berton Luo |
| Spectrum Bandwidth | 24°C | 55% | AC 120V/60Hz | Jonas Chen |
| Maximum Output Power | 24°C | 55% | AC 120V/60Hz | Laughing Zhang |
| Power Spectral Density | 24°C | 55% | AC 120V/60Hz | Jonas Chen |
| Frequency Stability | Normal&Extreme | 55% | Normal&Extreme | Jonas Chen |

# 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Equipment | AX1800 Whole Home Mesh Wi-Fi System |
| Brand Name | tp-link |
| Test Model | Deco X20 |
| Series Model | Deco W3600 |
| Model Difference(s) | Only differ in model name. |
| Power Source | DC Voltage supplied from AC/DC adapter.<br>Model: T120150-2B4 |
| Power Rating | I/P: 100-240V~ 50/60Hz 0.6A<br>O/P:12V ⎓ 1.5A |
| Operation Frequency Bands | UNII-1: 5150 MHz~5250 MHz |
| Modulation Type | IEEE 802.11a/n/ac: OFDM<br>IEEE 802.11ax: OFDMA |
| Bit Rate of Transmitter | Up to 1201 Mbps |
| Maximum Conducted Output Power for UNII-1 | IEEE 802.11a: 27.12 dBm (0.5152 W)<br>IEEE 802.11n (HT20): 26.39 dBm (0.4355 W)<br>IEEE 802.11n (HT40): 26.07 dBm (0.4046 W)<br>IEEE 802.11ac (VHT20): 27.75 dBm (0.5957 W)<br>IEEE 802.11ac (VHT40): 26.07 dBm (0.4046 W)<br>IEEE 802.11ac (VHT80): 22.38 dBm (0.4355 W)<br>IEEE 802.11ax (HEW20): 27.30 dBm (0.5370 W)<br>IEEE 802.11ax (HEW40): 25.99 dBm (0.3972 W)<br>IEEE 802.11ax (HEW80): 22.54 dBm (0.1795 W) |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

| IEEE 802.11a<br>IEEE 802.11n (HT20)<br>IEEE 802.11ac (VHT20)<br>IEEE 802.11ax (HEW20) | | IEEE 802.11n (HT40)<br>IEEE 802.11ac (VHT40)<br>IEEE 802.11ax (HEW40) | | IEEE 802.11ac (VHT80)<br>IEEE 802.11ax (HEW80) | |
|---|---|---|---|---|---|
| UNII-1 | | UNII-1 | | UNII-1 | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 36 | 5180 | 38 | 5190 | 42 | 5210 |
| 40 | 5200 | 46 | 5230 | | |
| 44 | 5220 | | | | |
| 48 | 5240 | | | | |

3. Antenna Specification:

| Ant. | Brand | P/N | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|
| 1 | TP-LINK | 3101502754 | PCB | I-PEX | 0.76 |
| 2 | TP-LINK | 3101502755 | PCB | I-PEX | 0.80 |

Note:
This EUT supports CDD, any transmit signals are correlated with each other, so Directional gain = $10\log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]$dBi, that is Directional gain=$10\log[(10^{0.76/20}+10^{0.80/20})^2/2]$dBi =3.79.

4. Table for Antenna Configuration:

| Operating Mode / TX Mode | 2TX |
|---|---|
| IEEE 802.11a | V (Ant. 1 + Ant. 2) |
| IEEE 802.11n (HT20) | V (Ant. 1 + Ant. 2) |
| IEEE 802.11n (HT40) | V (Ant. 1 + Ant. 2) |
| IEEE 802.11ac (VHT20) | V (Ant. 1 + Ant. 2) |
| IEEE 802.11ac (VHT40) | V (Ant. 1 + Ant. 2) |
| IEEE 802.11ac (VHT80) | V (Ant. 1 + Ant. 2) |
| IEEE 802.11ax (HEW20) | V (Ant. 1 + Ant. 2) |
| IEEE 802.11ax (HEW40) | V (Ant. 1 + Ant. 2) |
| IEEE 802.11ax (HEW80) | V (Ant. 1 + Ant. 2) |

## 2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

| Pretest Mode | Description |
|---|---|
| Mode 1 | TX A Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 2 | TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 3 | TX N (HT40) Mode / CH38, CH46 (UNII-1) |
| Mode 4 | TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 5 | TX AC (VHT40) Mode / CH38, CH46 (UNII-1) |
| Mode 6 | TX AC (VHT80) Mode / CH42 (UNII-1) |
| Mode 7 | TX AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 8 | TX AX (HEW40) Mode / CH38, CH46 (UNII-1) |
| Mode 9 | TX AX (HEW80) Mode / CH42 (UNII-1) |
| Mode 10 | TX AC(VHT20) Mode / CH40 (UNII-1) |

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

| **AC power line conducted emissions test** | |
|---|---|
| Final Test Mode | Description |
| Mode 10 | TX AC(VHT20) Mode / CH40 (UNII-1) |

| **Radiated emissions test - Below 1GHz** | |
|---|---|
| Final Test Mode | Description |
| Mode 10 | TX AC(VHT20) Mode / CH40 (UNII-1) |

| **Radiated emissions test** | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | TX A Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 2 | TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 3 | TX N (HT40) Mode / CH38, CH46 (UNII-1) |
| Mode 4 | TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 5 | TX AC (VHT40) Mode / CH38, CH46 (UNII-1) |
| Mode 6 | TX AC (VHT80) Mode / CH42 (UNII-1) |
| Mode 7 | TX AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 8 | TX AX (HEW40) Mode / CH38, CH46 (UNII-1) |
| Mode 9 | TX AX (HEW80) Mode / CH42 (UNII-1) |

| Conducted test | |
|---|---|
| Test Mode | Description |
| Mode 1 | TX A Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 2 | TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 3 | TX N (HT40) Mode / CH38, CH46 (UNII-1) |
| Mode 4 | TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 5 | TX AC (VHT40) Mode / CH38, CH46 (UNII-1) |
| Mode 6 | TX AC (VHT80) Mode / CH42 (UNII-1) |
| Mode 7 | TX AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1) |
| Mode 8 | TX AX (HEW40) Mode / CH38, CH46 (UNII-1) |
| Mode 9 | TX AX (HEW80) Mode / CH42 (UNII-1) |

Note:
(1) For radiated emission below 1 GHz test, the IEEE 802.11ac20 is found to be the worst case and recorded.
(2) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
(3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.

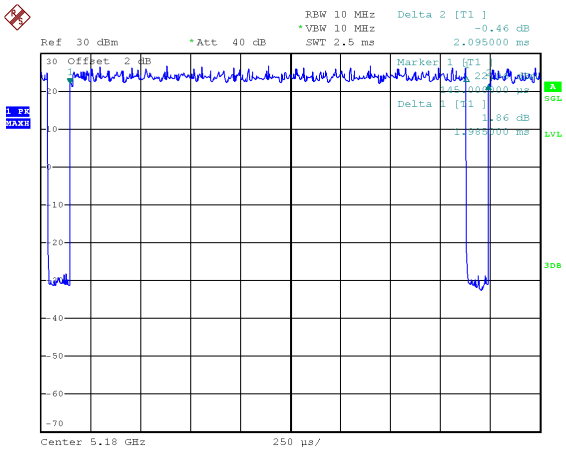
## 2.3 PARAMETERS OF TEST SOFTWARE

| UNII-1 | | | |
|---|---|---|---|
| Test Software | QSPR | | |
| Test Frequency (MHz) | 5180 | 5200 | 5240 |
| IEEE 802.11a | 19.5 | 22 | 24 |
| IEEE 802.11n (HT20) | 23.5 | 24 | 24 |
| IEEE 802.11ac (VHT20) | 23.5 | 25 | 25 |
| IEEE 802.11ax (HEW20) | 22 | 24.5 | 25 |
| Test Frequency (MHz) | 5190 | 5230 | |
| IEEE 802.11n (HT40) | 19.5 | 22 | |
| IEEE 802.11ac (VHT40) | 19.5 | 22.5 | |
| IEEE 802.11ax (HEW40) | 19.5 | 22.5 | |
| Test Frequency (MHz) | 5210 | | |
| IEEE 802.11ac (VHT80) | 19 | | |
| IEEE 802.11ax (HEW80) | 19 | | |

## 2.4 DUTY CYCLE

If duty cycle is ≥ 98 %, duty factor is not required.
If duty cycle is < 98 %, duty factor shall be considered.
The output power = measured power + duty factor.

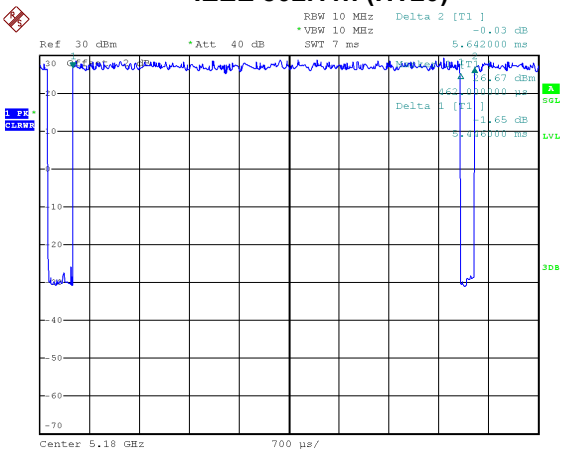
### IEEE 802.11a




Date: 31.OCT.2019 16:27:54

Duty cycle = 1.985 ms / 2.095 ms = 94.75%
Duty Factor = 10 log(1 / Duty cycle) = 0.23

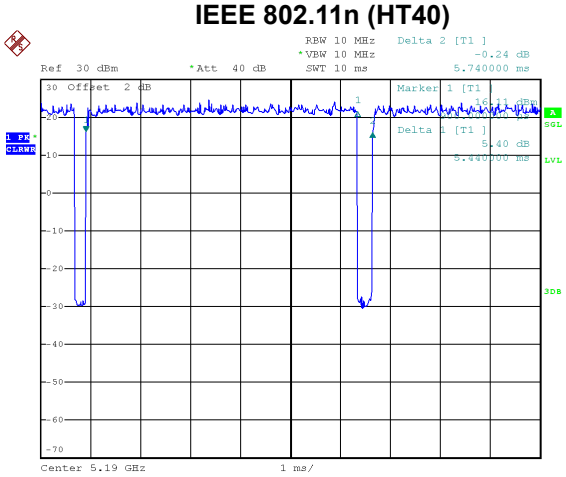
### IEEE 802.11n (HT20)




Date: 31.OCT.2019 16:28:46

Duty cycle = 5.446 ms / 5.642 ms = 96.53%
Duty Factor = 10 log(1 / Duty cycle) = 0.15

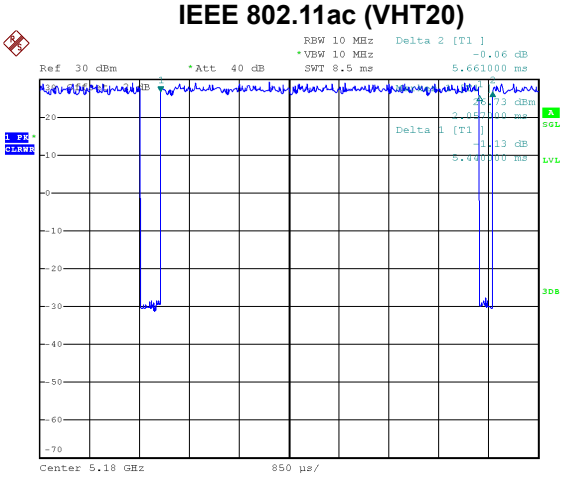
### IEEE 802.11n (HT40)




Date: 31.OCT.2019 16:30:21

Duty cycle = 5.440 ms / 5.740 ms = 94.77%
Duty Factor = 10 log(1 / Duty cycle) = 0.23

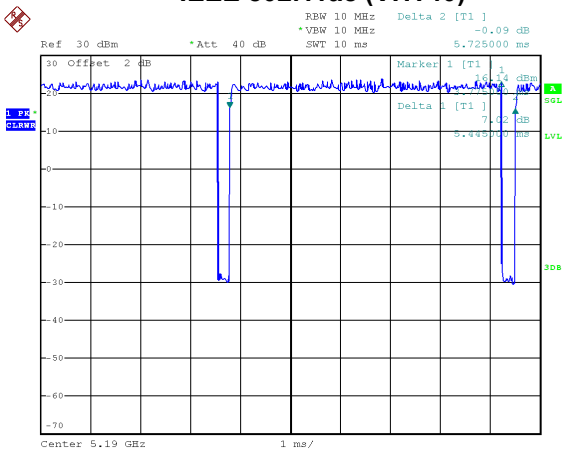
### IEEE 802.11ac (VHT20)




Date: 31.OCT.2019 16:29:27

Duty cycle = 5.440 ms / 5.661 ms = 96.10%
Duty Factor = 10 log(1 / Duty cycle) = 0.17

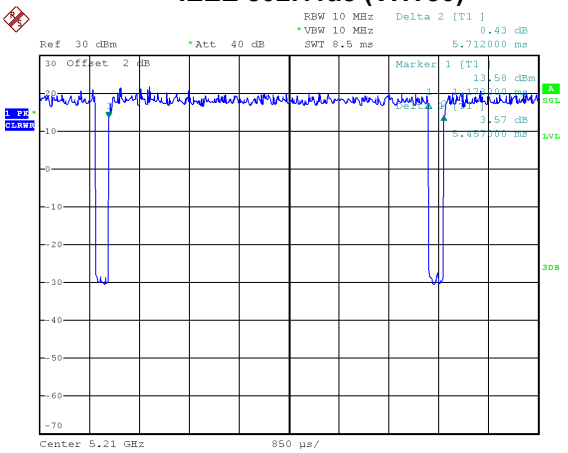
## IEEE 802.11ac (VHT40)




Date: 31.OCT.2019 16:33:17

Duty cycle = 5.445 ms / 5.725 ms = 95.11%
Duty Factor = 10 log(1 / Duty cycle) = 0.22

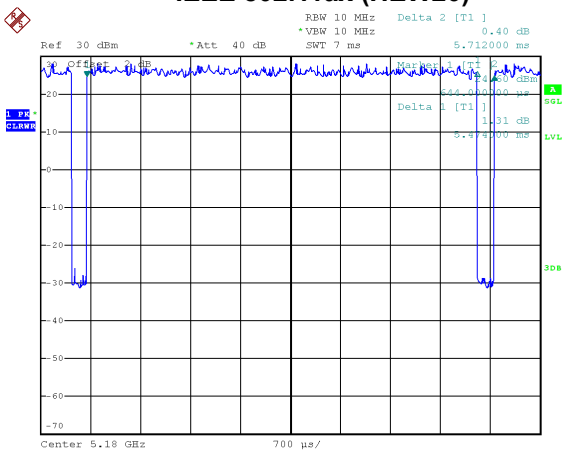
## IEEE 802.11ac (VHT80)




Date: 31.OCT.2019 16:34:12

Duty cycle = 5.457 ms / 5.712 ms = 95.54%
Duty Factor = 10 log(1 / Duty cycle) = 0.20

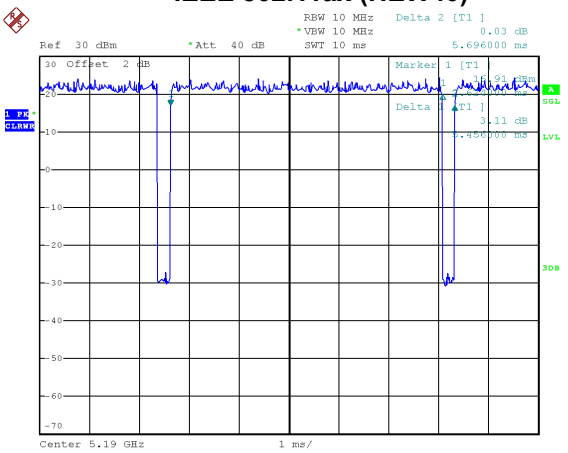
## IEEE 802.11ax (HEW20)




Date: 31.OCT.2019 16:35:19

Duty cycle = 5.474 ms / 5.712 ms = 95.83%
Duty Factor = 10 log(1 / Duty cycle) = 0.18

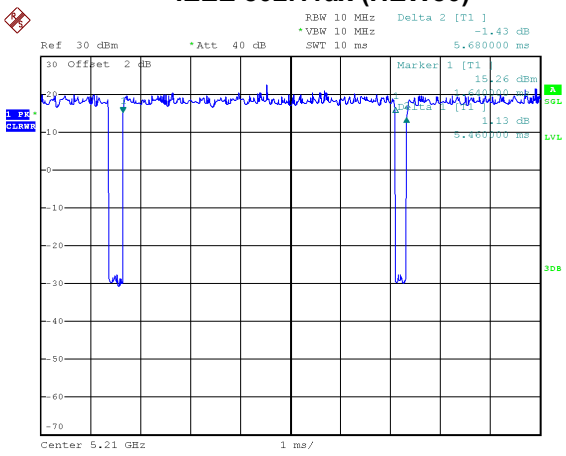
## IEEE 802.11ax (HEW40)




Date: 31.OCT.2019 16:36:49

Duty cycle = 5.456 ms / 5.696 ms = 95.79%
Duty Factor = 10 log(1 / Duty cycle) = 0.19

**IEEE 802.11ax (HEW80)**




Date: 31.OCT.2019 16:37:49

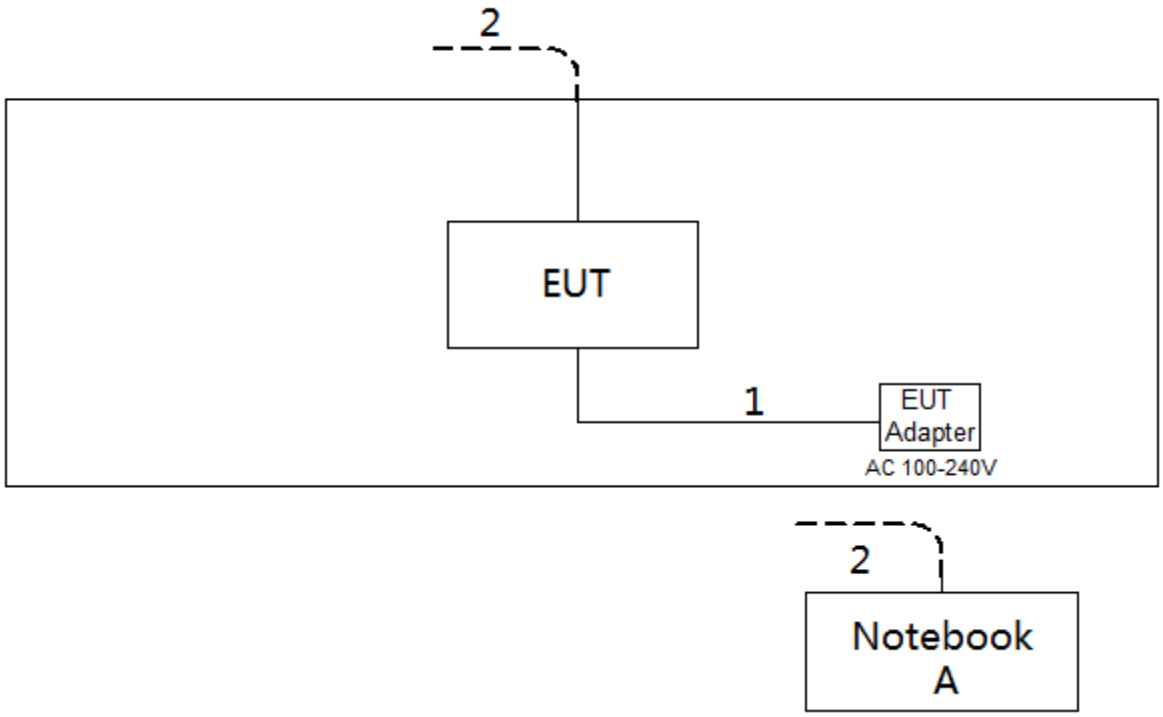
Duty cycle = 5.460 ms / 5.680 ms = 96.13%
Duty Factor = 10 log(1 / Duty cycle) = 0.17

NOTE:
For IEEE 802.11a, IEEE 802.11n (HT20), IEEE 802.11ac (VHT20) and IEEE 802.11ax (HEW20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n (HT40) , IEEE 802.11ac (VHT40) and IEEE 802.11ax (HEW40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac (VHT80) and IEEE 802.11ax (HEW80):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).

## 2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED




## 2.6 SUPPORT UNITS

| Item | Equipment | Brand | Model No. | Series No. |
|---|---|---|---|---|
| A | Notebook | Dell | Inspiron 15-7559 | N/A |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|---|---|---|---|---|
| 1 | DC Cable | NO | NO | 1.5m |
| 2 | RJ45 Cable | NO | NO | 10m |

# 3. AC POWER LINE CONDUCTED EMISSIONS TEST

## 3.1 LIMIT

| Frequency (MHz) | Limit (dBμV) | |
|---|---|---|
| | Quasi-pea | 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 tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

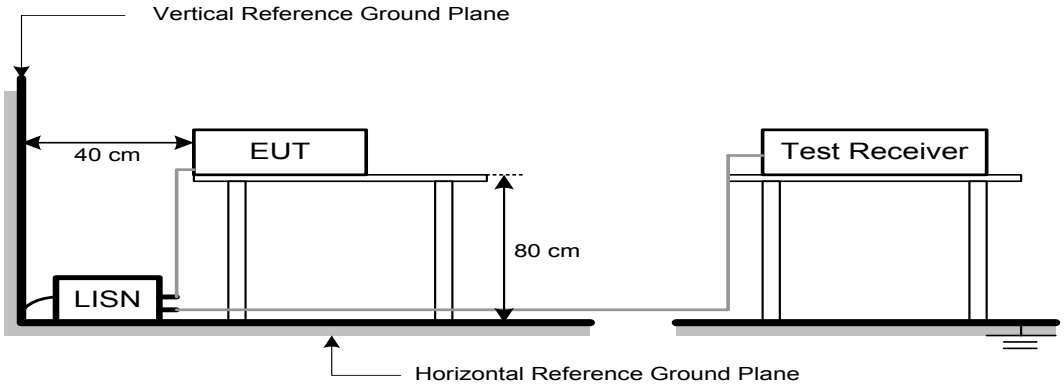
## 3.2 TEST PROCEDURE

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.

## 3.3 DEVIATION FROM TEST STANDARD

No deviation

## 3.4 TEST SETUP




## 3.5 EUT OPERATION CONDITIONS

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

## 3.6 TEST RESULTS

Please refer to the APPENDIX A.

# 4. RADIATED EMISSIONS TEST

## 4.1 LIMIT

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 EMISSIONS MEASUREMENT (9 kHz to 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 |
| Above 960 | 500 | 3 |

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| Frequency (MHz) | EIRP Limit (dBm/MHz) | Equivalent Field Strength at 3m (dBμV/m) |
|---|---|---|
| 5150-5250 | -27 | 68.3 |

NOTE:

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

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

## 4.2 TEST PROCEDURE

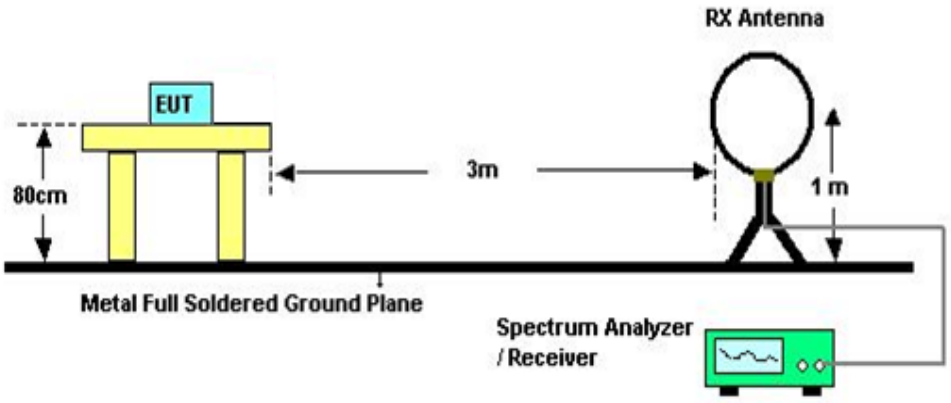
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. 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.
d. 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).
e. 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.
f. 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.
g. 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)
h. 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)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

## 4.3 DEVIATION FROM TEST STANDARD

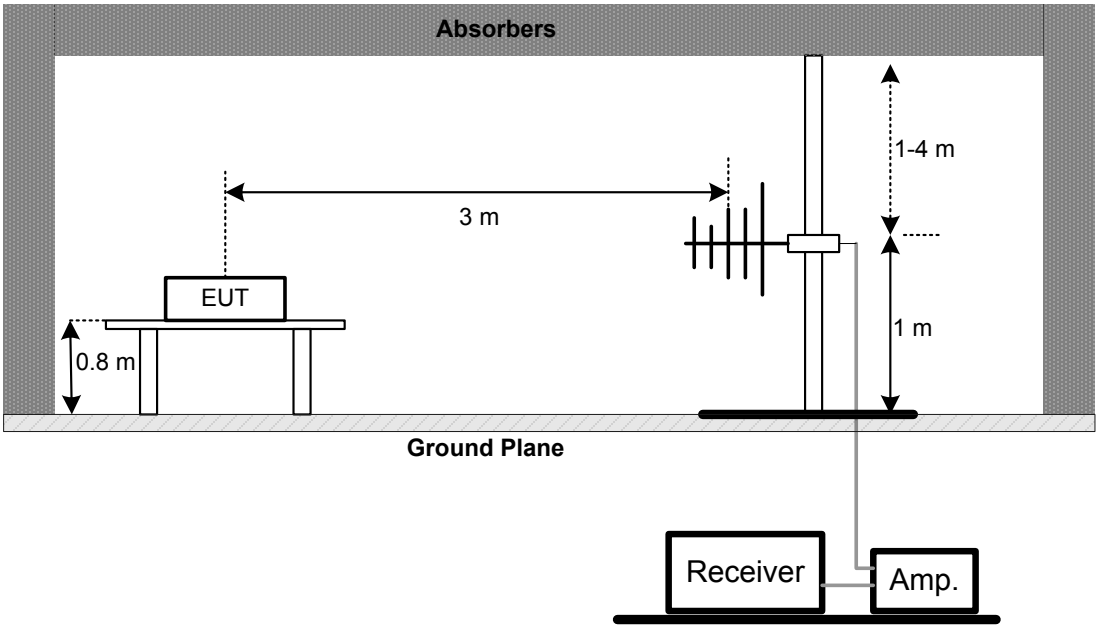
No deviation

## 4.4 TEST SETUP

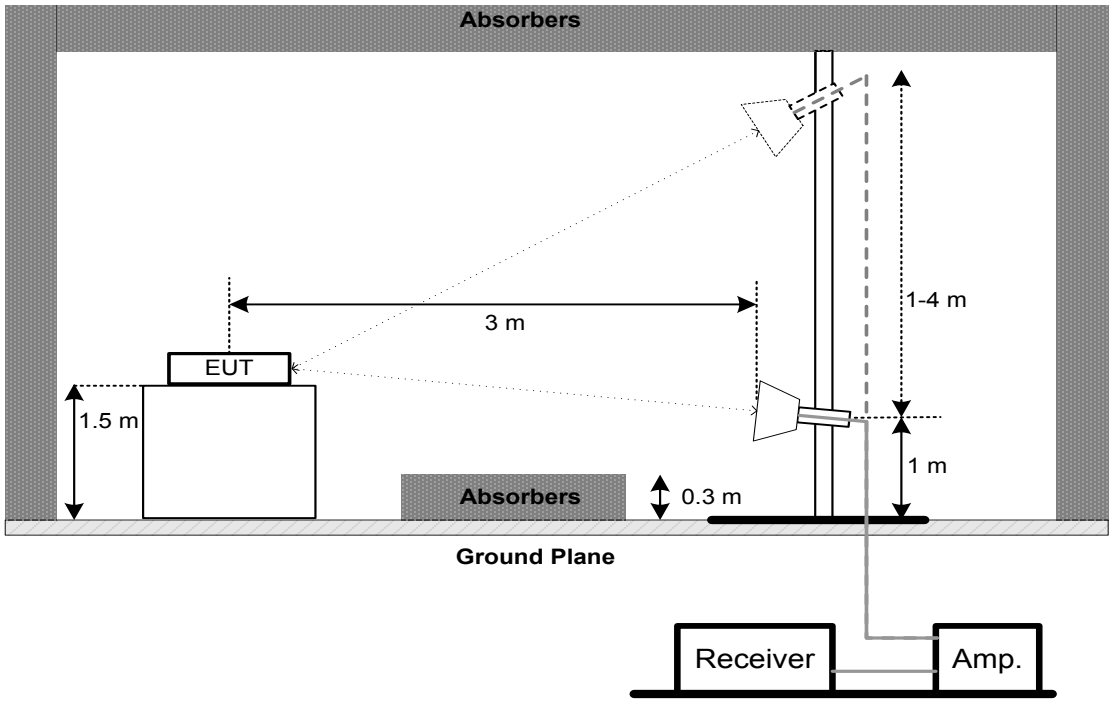
**9 kHz to 30 MHz**




**30 MHz to 1 GHz**



**Above 1 GHz**




## 4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

## 4.6 TEST RESULTS - 9 KHZ to 30 MHZ

Please refer to the APPENDIX B

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBuV) + distance extrapolation factor.

## 4.7 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

## 4.8 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 LIMIT

| FCC Part15, Subpart E (15.407) | | | |
|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) |
| 15.407(a)<br>15.407(e) | 26 dB Bandwidth | - | 5150-5250 |

## 5.2 TEST PROCEDURE

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

b. Spectrum Setting:
For UNII-1:

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Span Frequency | > 26 dB Bandwidth |
| RBW | 300 kHz (Bandwidth 20 MHz)<br>1 MHz (Bandwidth 40 MHz and 80 MHz) |
| VBW | 1 MHz (Bandwidth 20 MHz)<br>3 MHz (Bandwidth 40 MHz and 80 MHz) |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

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

## 5.3 DEVIATION FROM STANDARD

No deviation.

## 5.4 TEST SETUP


## 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 5.6 TEST RESULTS

Please refer to the APPENDIX E.

# 6. MAXIMUM OUTPUT POWER TEST

## 6.1 LIMIT

| FCC Part15, Subpart E (15.407) | | | |
|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) |
| 15.407(a) | Conducted Output Power | AP device: 1 Watt (30 dBm)<br>Client device: 250 mW (24 dBm) | 5150-5250 |

Note:

a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

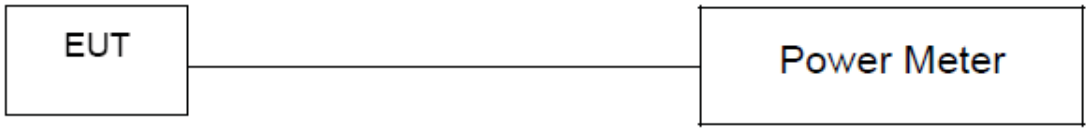
## 6.2 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
b. Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

## 6.3 DEVIATION FROM STANDARD

No deviation.

## 6.4 TEST SETUP




## 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 6.6 TEST RESULTS

Please refer to the APPENDIX F.

# 7. POWER SPECTRAL DENSITY TEST

## 7.1 LIMIT

| FCC Part15, Subpart E (15.407) | | | |
|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) |
| 15.407(a) | Power Spectral Density | AP device: 17 dBm/MHz<br>Client device: 11 dBm/MHz | 5150-5250 |

## 7.2 TEST PROCEDURE

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

b. Spectrum Setting

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Span Frequency | Encompass the entire emissions bandwidth (EBW) of the signal |
| RBW | = 1 MHz. |
| VBW | ≥ 3 MHz. |
| Detector | RMS |
| Trace average | 100 trace |
| Sweep Time | Auto |

Note:

1. The value measured with RBW=1 MHz is to be added with 10log(500 kHz/1 MHz) which is -3 dB. For example, if the measured value is +10dBm using RBW=1 MHz (that is +10 dBm/MHz), then the converted value will be +7dBm/500kHz.

## 7.3 DEVIATION FROM STANDARD

No deviation.

## 7.4 TEST SETUP


## 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 7.6 TEST RESULTS

Please refer to the APPENDIX G.

# 8. FREQUENCY STABILITY MEASUREMENT

## 8.1 LIMIT

| FCC Part15, Subpart E (15.407) | | | |
|---|---|---|---|
| Section | Test Item | Limit | Frequency Range (MHz) |
| 15.407(g) | Frequency Stability | An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual. | 5150-5250 |

## 8.2 TEST PROCEDURE

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

b. Spectrum Setting:

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

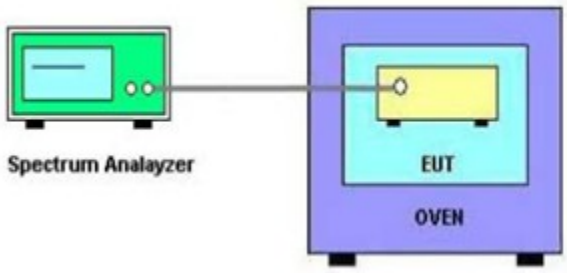
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~40°C.

## 8.3 DEVIATION FROM STANDARD

No deviation.

## 8.4 TEST SETUP




## 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 8.6 TEST RESULTS

Please refer to the APPENDIX H.

## 9. MEASUREMENT INSTRUMENTS LIST

| AC Power Line Conducted Emissions | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | EMI Test Receiver | R&S | ESCI | 100382 | Mar. 10, 2020 |
| 2 | LISN | EMCO | 3816/2 | 52765 | Mar. 10, 2020 |
| 3 | TWO-LINE V-NETWORK | R&S | ENV216 | 101447 | May. 19, 2020 |
| 4 | 50Ω Terminator | SHX | TF5-3 | 15041305 | Mar. 10, 2020 |
| 5 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |
| 6 | Cable | N/A | RG223 | 12m | Mar. 12, 2020 |

| Radiated Emissions - 9 kHz to 30 MHz | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Loop Antenna | EM | EM-6876-1 | 230 | Jan. 15, 2020 |
| 2 | Cable | N/A | RG 213/U | C-102 | May 31, 2020 |
| 3 | EMI Test Receiver | R&S | ESCI | 100895 | Mar. 10, 2020 |
| 4 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |

| Radiated Emissions - 30 MHz to 1 GHz | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Antenna | Schwarzbeck | VULB9160 | 9160-3232 | Mar. 09, 2020 |
| 2* | Amplifier | HP | 8447D | 2944A09673 | Aug. 11, 2021 |
| 3 | Receiver | Agilent | N9038A | MY52130039 | Aug. 03, 2020 |
| 4 | Cable | emci | LMR-400(30MHz-1 GHz)(8m+5m) | N/A | May 24, 2020 |
| 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 Emissions - Above 1 GHz | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Double Ridged Guide Antenna | ETS | 3115 | 75789 | Mar. 09, 2020 |
| 2 | Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 9170319 | Jun. 23, 2020 |
| 3 | Amplifier | Agilent | 8449B | 3008A02333 | Mar. 10, 2020 |
| 4 | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045 | 980039 & HA01 | Mar. 10, 2020 |
| 5 | Receiver | Agilent | N9038A | MY52130039 | Aug. 03, 2020 |
| 6 | Controller | CT | SC100 | N/A | N/A |
| 7 | Controller | MF | MF-7802 | MF780208416 | N/A |
| 8 | Cable | mitron | B10-01-01-12M | 18072744 | Jun. 29, 2020 |
| 9 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-01 | N/A | N/A |

| Bandwidth & Power Spectral Density | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 03, 2020 |

| Maximum Output Power | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Peak Power Analyzer | Keysight | 8990B | MY51000506 | Aug. 03, 2020 |
| 2 | Wideband power sensor | Keysight | N1923A | MY58310004 | Aug. 03, 2020 |

| Frequency Stability | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Spectrum Analyzer | R&S | FSP40 | 100185 | Aug. 03, 2020 |
| 2 | Precision Oven Tester | Bell | BTH-50C | 20170306001 | Mar. 10, 2020 |

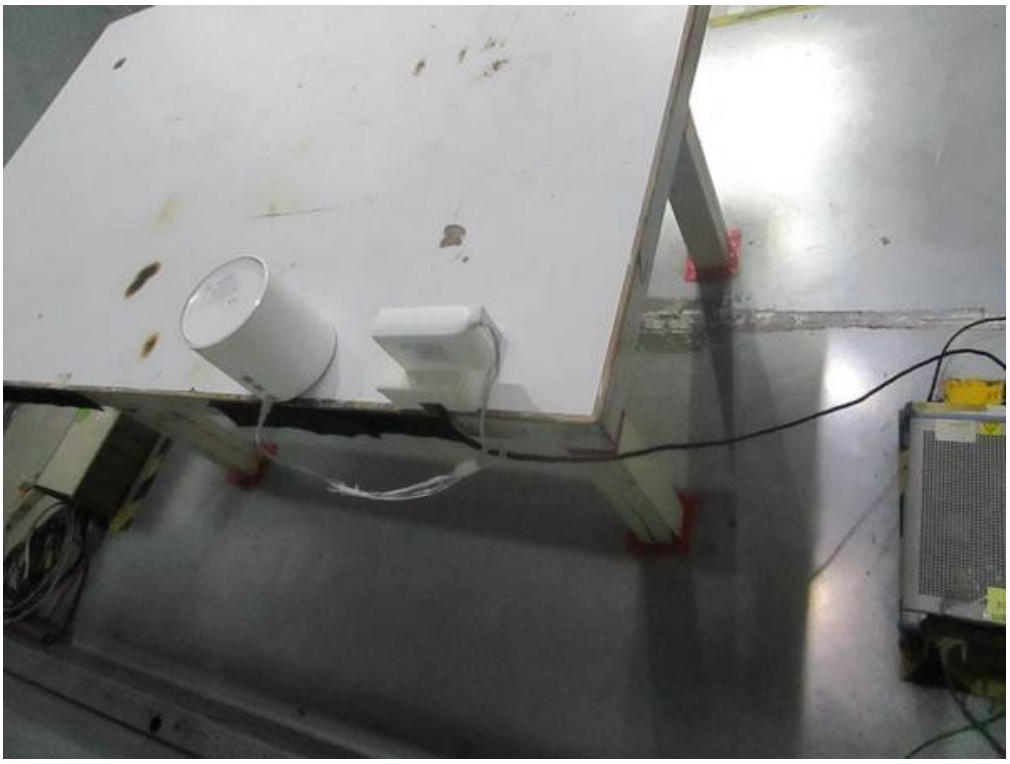
Remark: “N/A” denotes no model name, serial no. or calibration specified.

“*” calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.

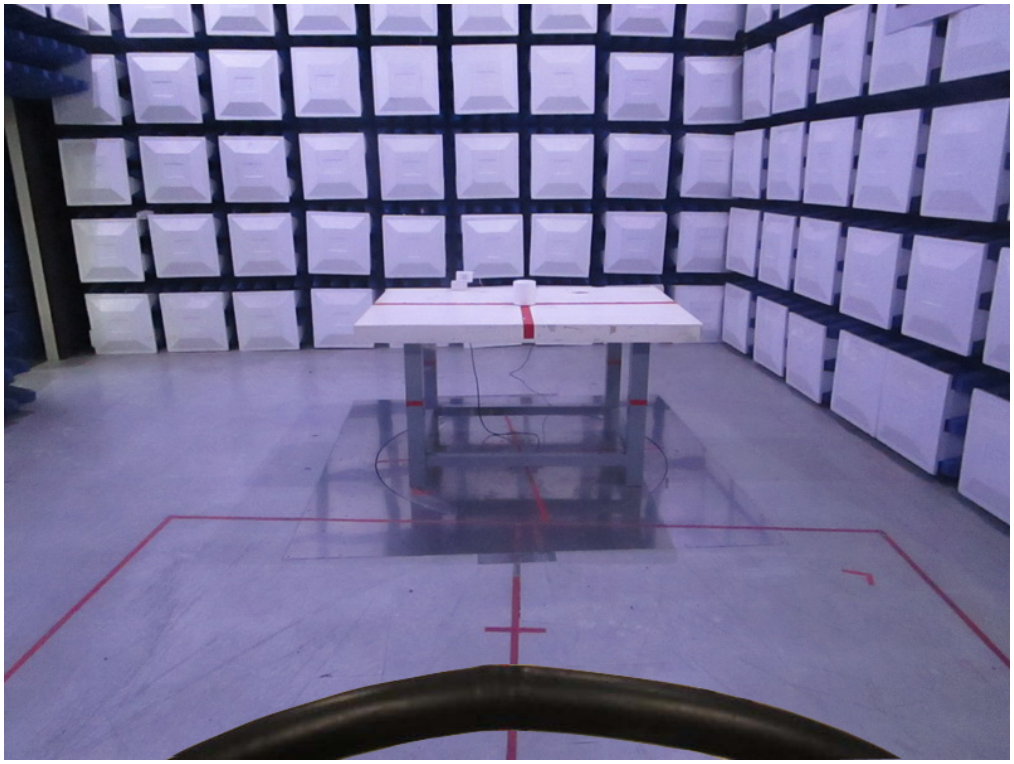
## 10. EUT TEST PHOTOS

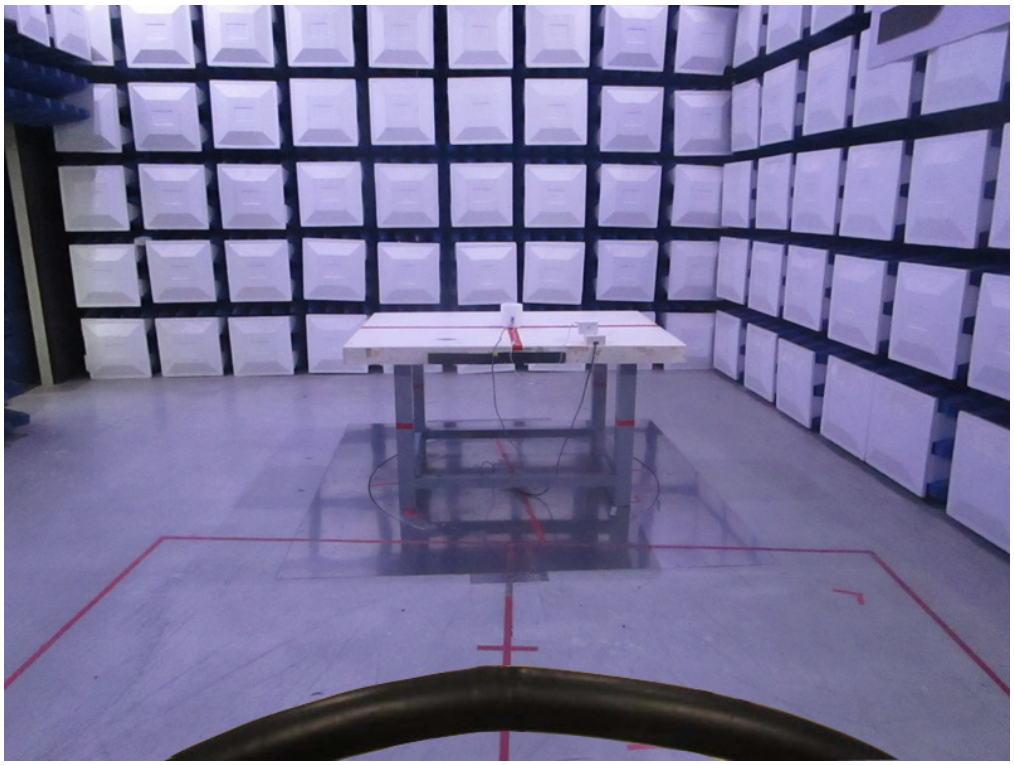
**AC Power Line Conducted Emissions Test Photos**



**Radiated Emissions Test Photos**

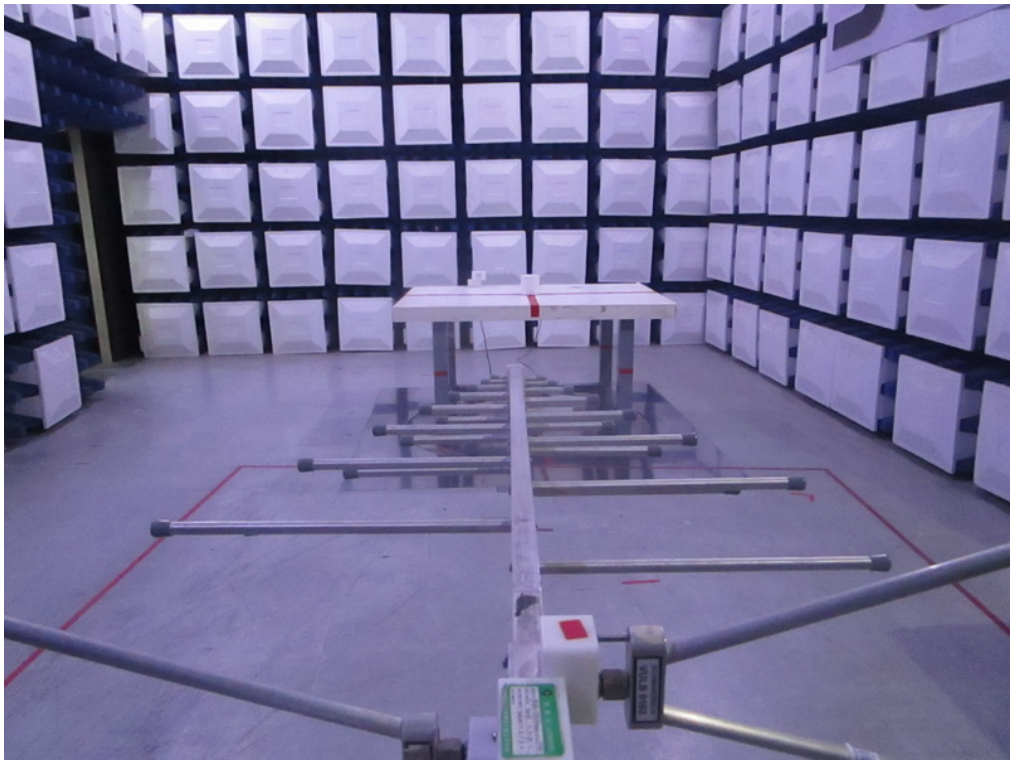
**9 kHz to 30 MHz**

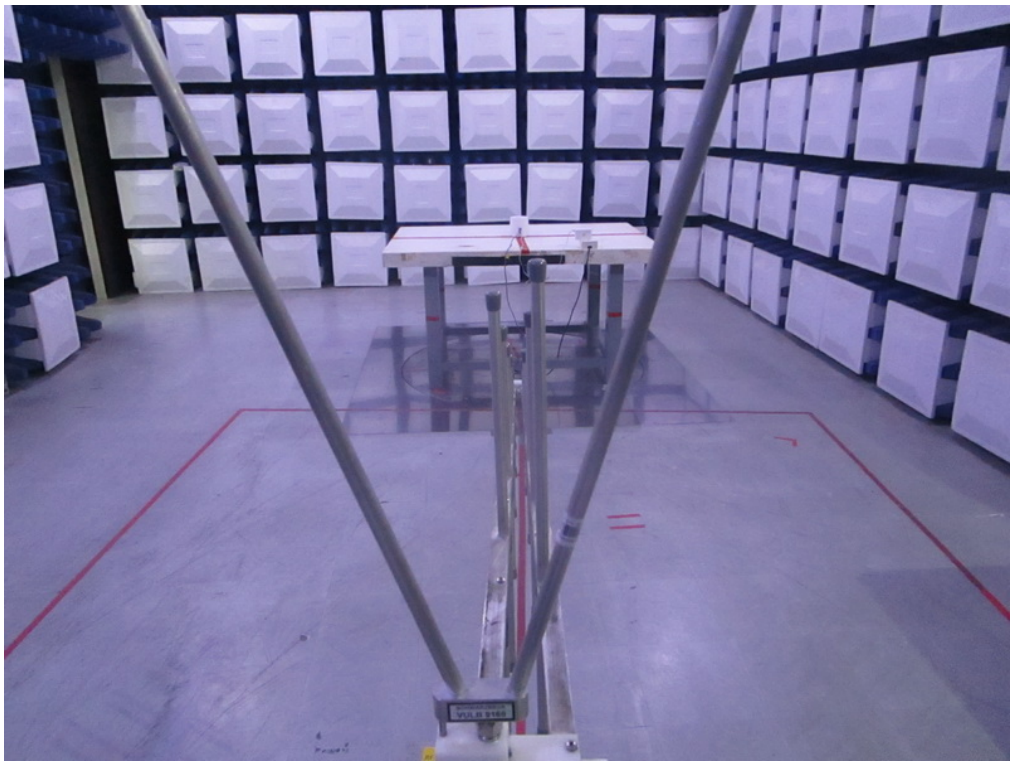




**Radiated Emissions Test Photos**

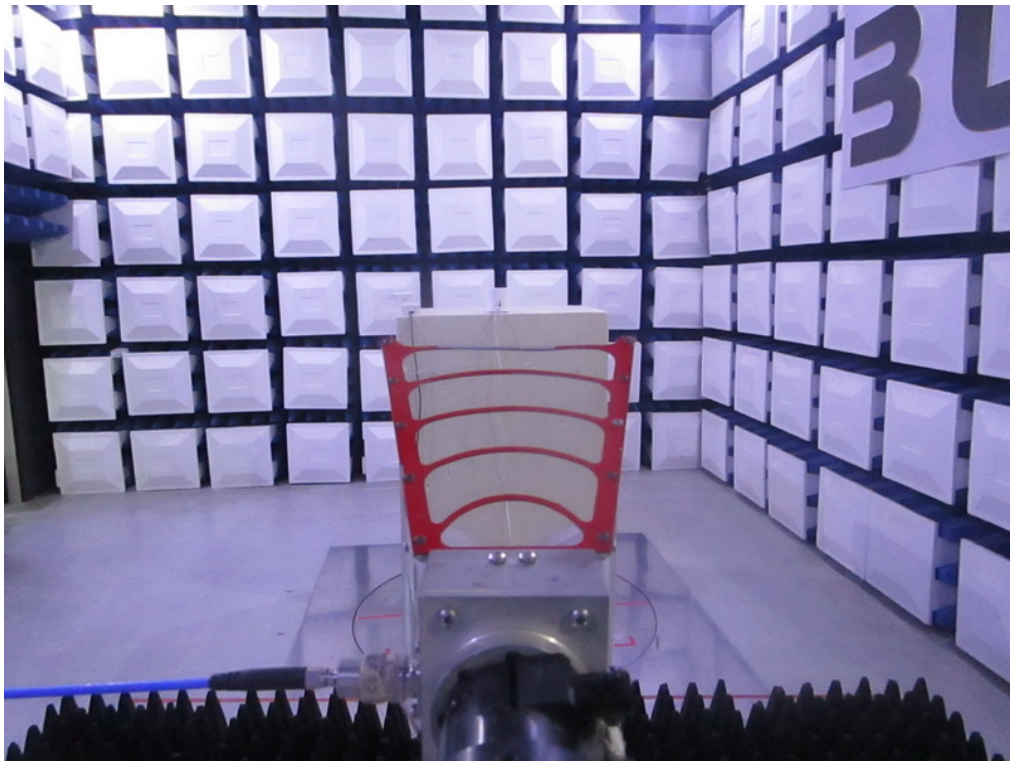
**30 MHz to 1 GHz**





**Radiated Emissions Test Photos**

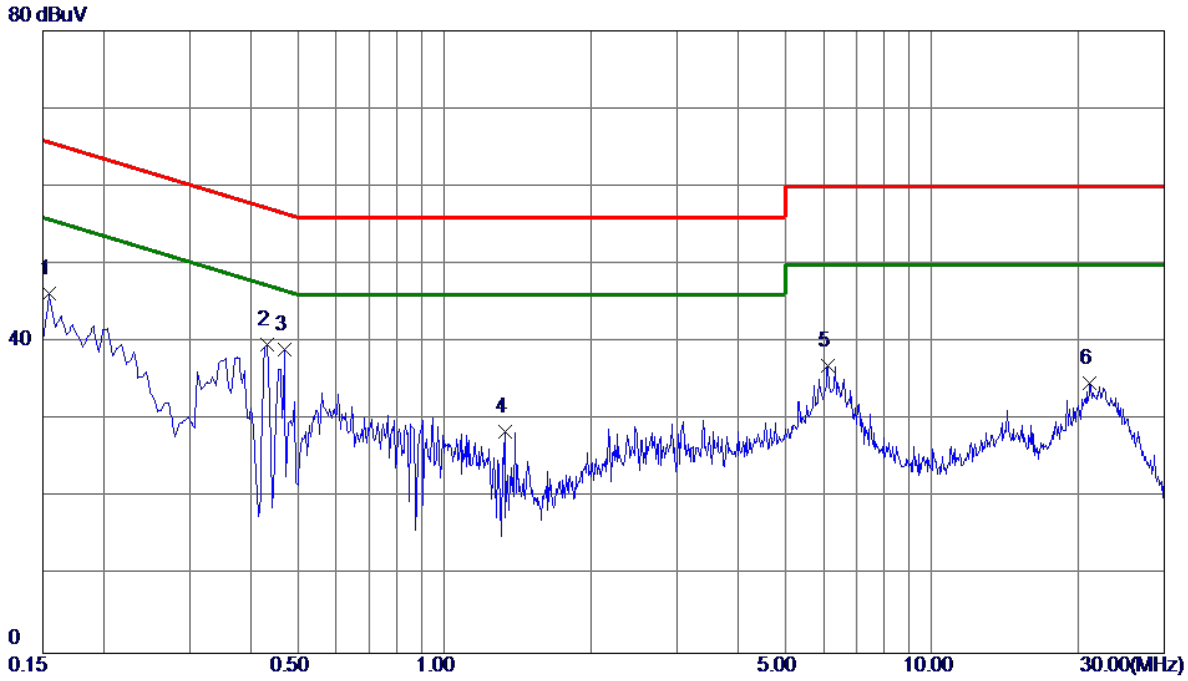
**Above 1 GHz**



# APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

| Test Mode: | TX AC20 Mode Channel 40 |
|---|---|

**Line**

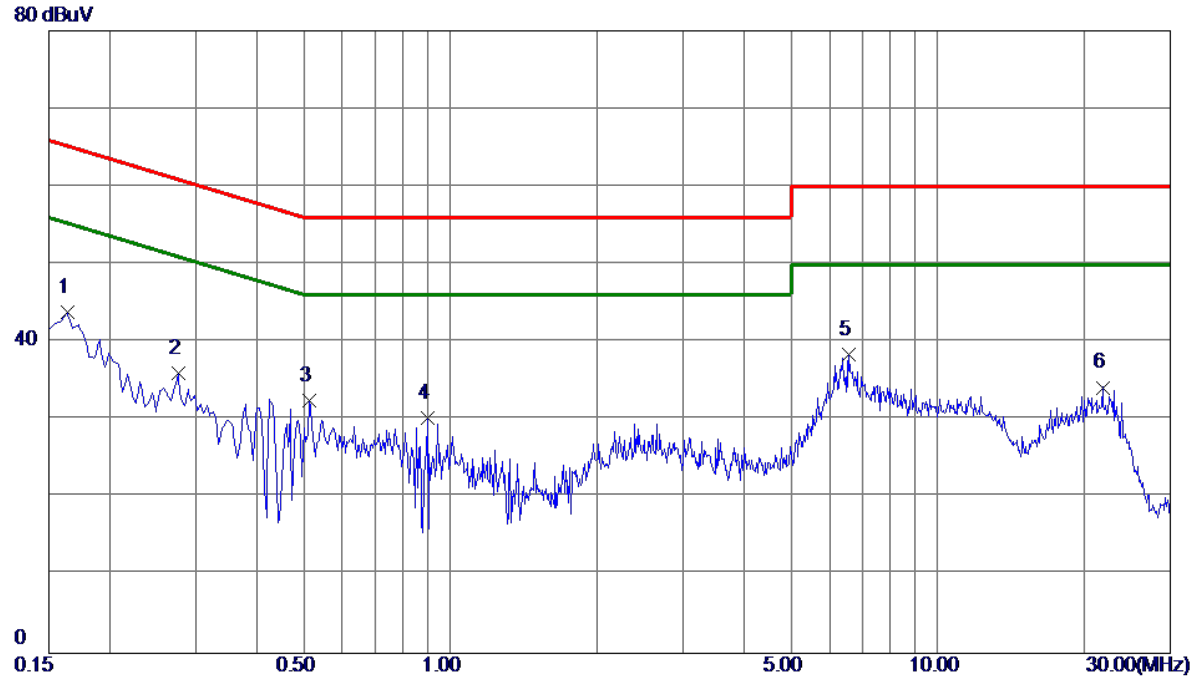



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.1545 | 36.39 | 9.82 | 46.21 | 65.75 | -19.54 | Peak | |
| 2 | 0.4335 | 29.76 | 9.87 | 39.63 | 57.19 | -17.56 | Peak | |
| 3 * | 0.4695 | 29.10 | 9.88 | 38.98 | 56.52 | -17.54 | Peak | |
| 4 | 1.3290 | 18.61 | 9.94 | 28.55 | 56.00 | -27.45 | Peak | |
| 5 | 6.1350 | 26.70 | 10.27 | 36.97 | 60.00 | -23.03 | Peak | |
| 6 | 21.1110 | 23.54 | 11.18 | 34.72 | 60.00 | -25.28 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

| Test Mode: | TX AC20 Mode Channel 40 |
|---|---|

**Neutral**



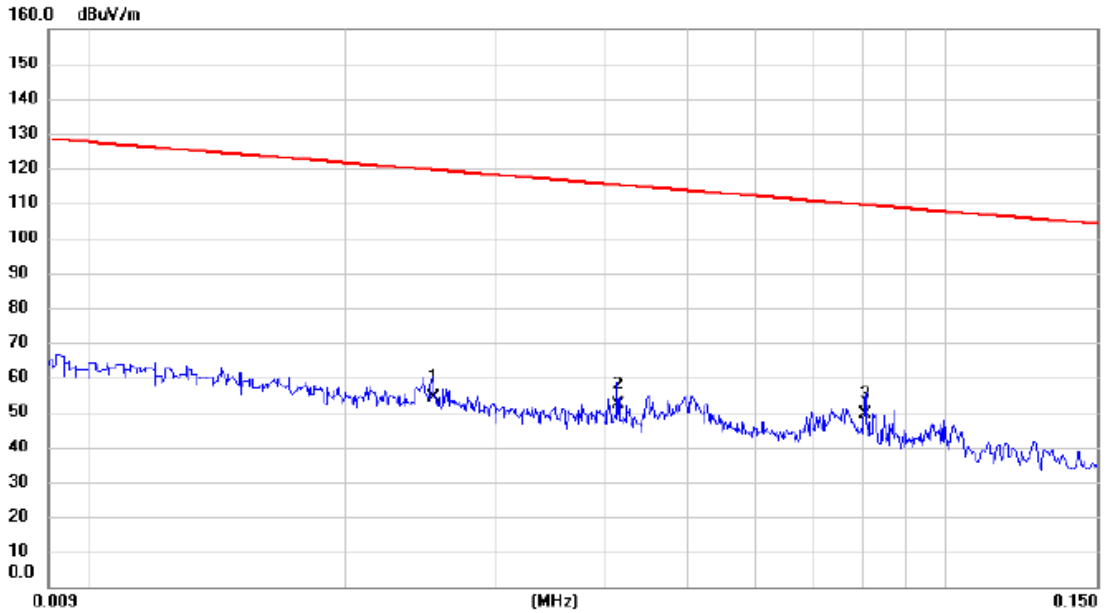

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 * | 0.1635 | 33.89 | 9.91 | 43.80 | 65.28 | -21.48 | Peak | |
| 2 | 0.2760 | 26.01 | 9.94 | 35.95 | 60.94 | -24.99 | Peak | |
| 3 | 0.5144 | 22.42 | 10.03 | 32.45 | 56.00 | -23.55 | Peak | |
| 4 | 0.8970 | 20.16 | 10.09 | 30.25 | 56.00 | -25.75 | Peak | |
| 5 | 6.5670 | 27.90 | 10.55 | 38.45 | 60.00 | -21.55 | Peak | |
| 6 | 21.8085 | 22.68 | 11.48 | 34.16 | 60.00 | -25.84 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

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

| Test Mode: | TX AC20 Mode Channel 40 |
|---|---|

**Ant 0°**

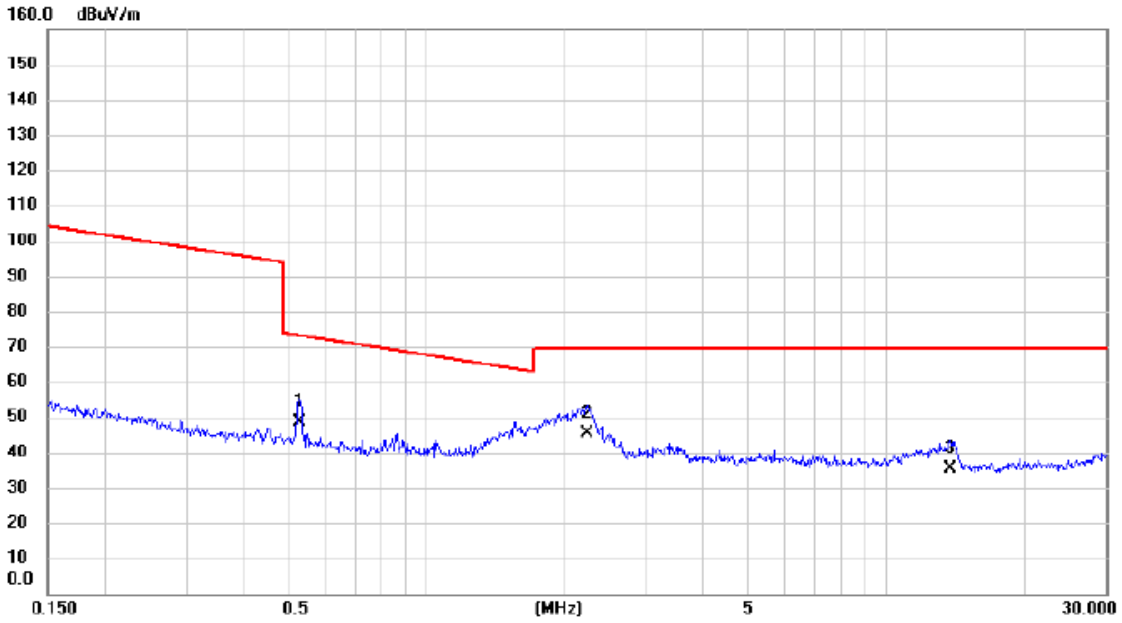



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 0.0253 | 40.36 | 13.84 | 54.20 | 119.54 | -65.34 | AVG | |
| 2 | | 0.0415 | 38.41 | 13.90 | 52.31 | 115.24 | -62.93 | AVG | |
| 3 | * | 0.0805 | 35.69 | 13.54 | 49.23 | 109.49 | -60.26 | AVG | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| Test Mode: | TX AC20 Mode Channel 40 |
|---|---|

**Ant 0°**

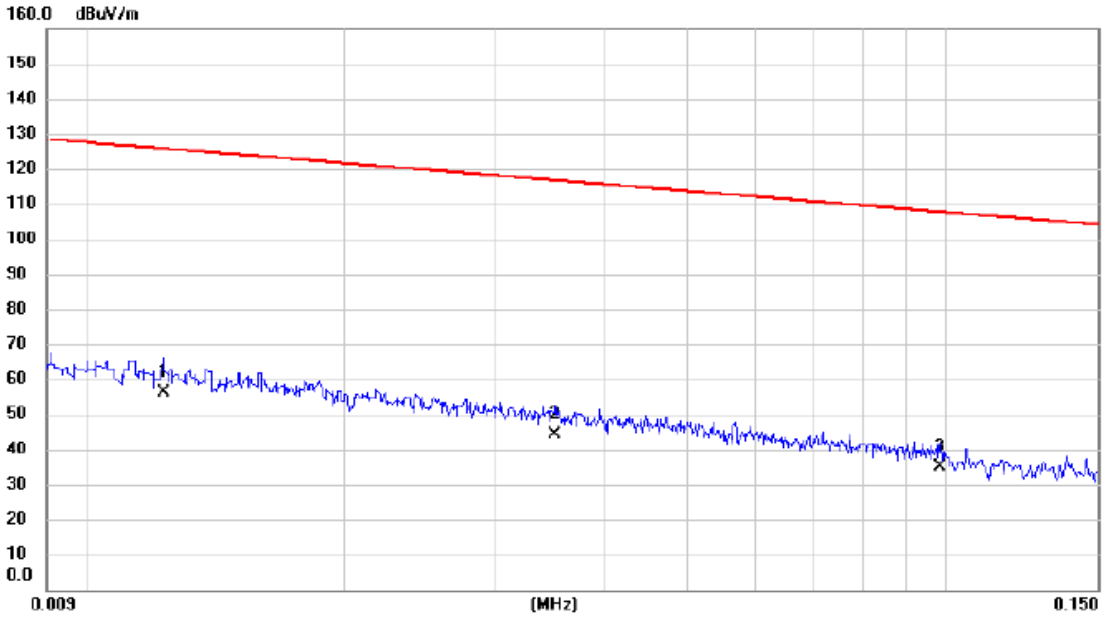



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 0.5293 | 35.64 | 13.00 | 48.64 | 73.13 | -24.49 | QP | |
| 2 | * | 2.2367 | 33.56 | 11.68 | 45.24 | 69.54 | -24.30 | QP | |
| 3 | | 13.7680 | 23.67 | 11.58 | 35.25 | 69.54 | -34.29 | QP | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| Test Mode: | TX AC20 Mode Channel 40 |
|---|---|

**Ant 90°**

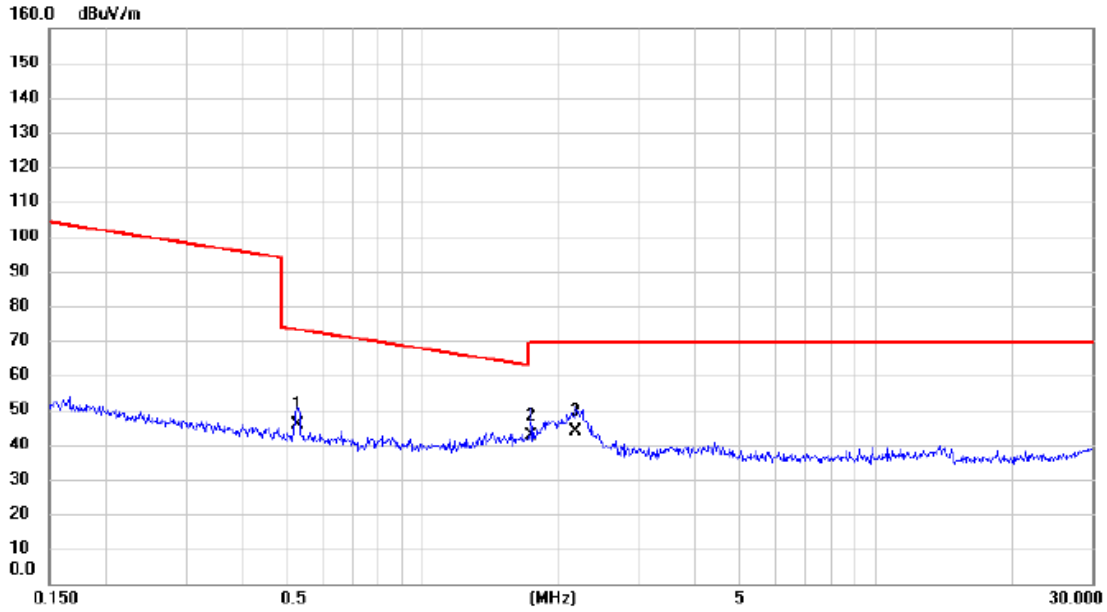



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 0.0123 | 40.21 | 16.13 | 56.34 | 125.81 | -69.47 | AVG | |
| 2 | | 0.0350 | 30.45 | 13.88 | 44.33 | 116.72 | -72.39 | AVG | |
| 3 | | 0.0984 | 21.64 | 13.54 | 35.18 | 107.75 | -72.57 | QP | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| Test Mode: | TX AC20 Mode Channel 40 |
|---|---|

**Ant 90°**



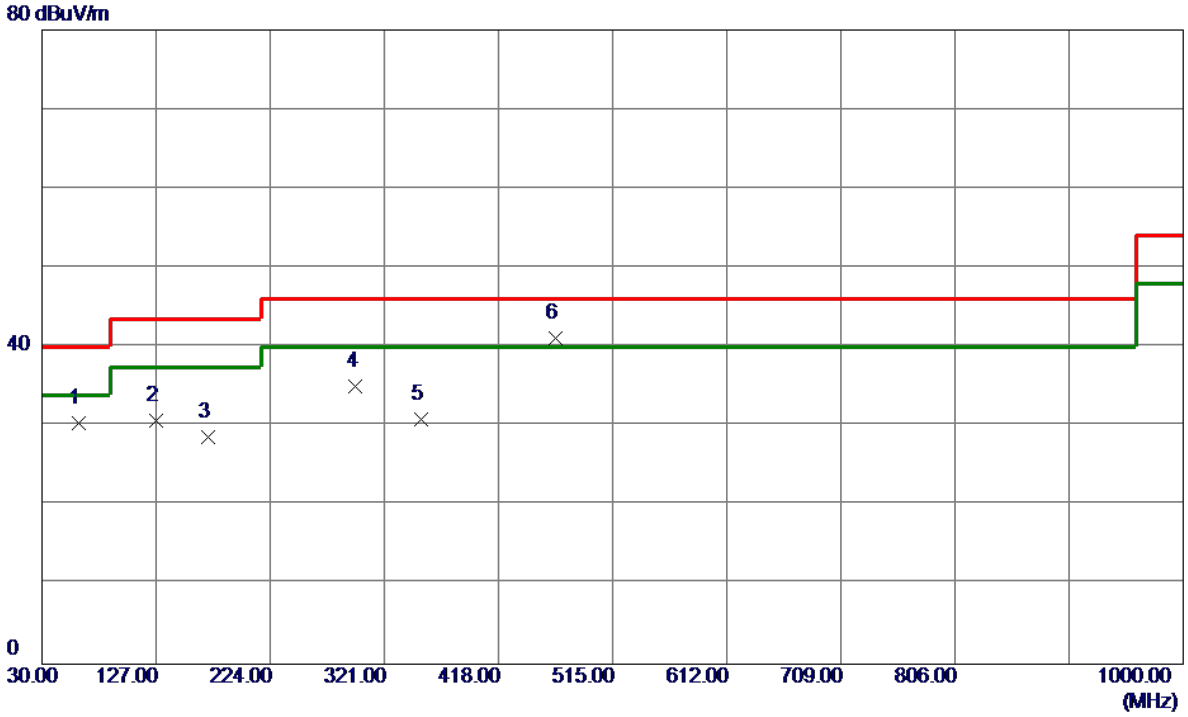

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 0.5293 | 32.65 | 13.00 | 45.65 | 73.13 | -27.48 | QP | |
| 2 | | 1.7345 | 30.45 | 12.00 | 42.45 | 69.54 | -27.09 | QP | |
| 3 | * | 2.1783 | 31.98 | 11.71 | 43.69 | 69.54 | -25.85 | QP | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

# APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

| Test Mode: | TX AC20 Mode Channel 40 |
|---|---|

**Vertical**

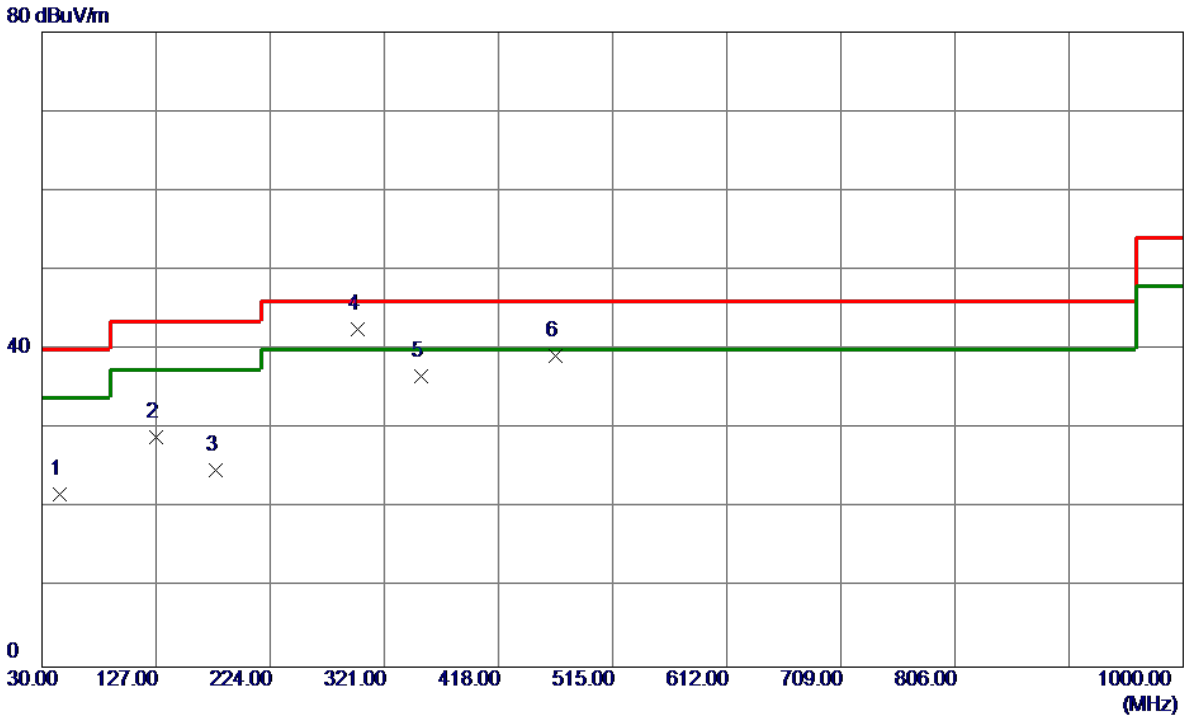



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 61.0400 | 45.34 | -14.92 | 30.42 | 40.00 | -9.58 | Peak | |
| 2 | 126.5150 | 43.83 | -13.11 | 30.72 | 43.50 | -12.78 | Peak | |
| 3 | 171.1350 | 41.27 | -12.57 | 28.70 | 43.50 | -14.80 | Peak | |
| 4 | 296.7500 | 46.79 | -11.70 | 35.09 | 46.00 | -10.91 | Peak | |
| 5 | 352.0400 | 41.57 | -10.69 | 30.88 | 46.00 | -15.12 | Peak | |
| 6 * | 466.5000 | 49.11 | -8.02 | 41.09 | 46.00 | -4.91 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| Test Mode: | TX AC20 Mode Channel 40 |
|---|---|

**Horizontal**



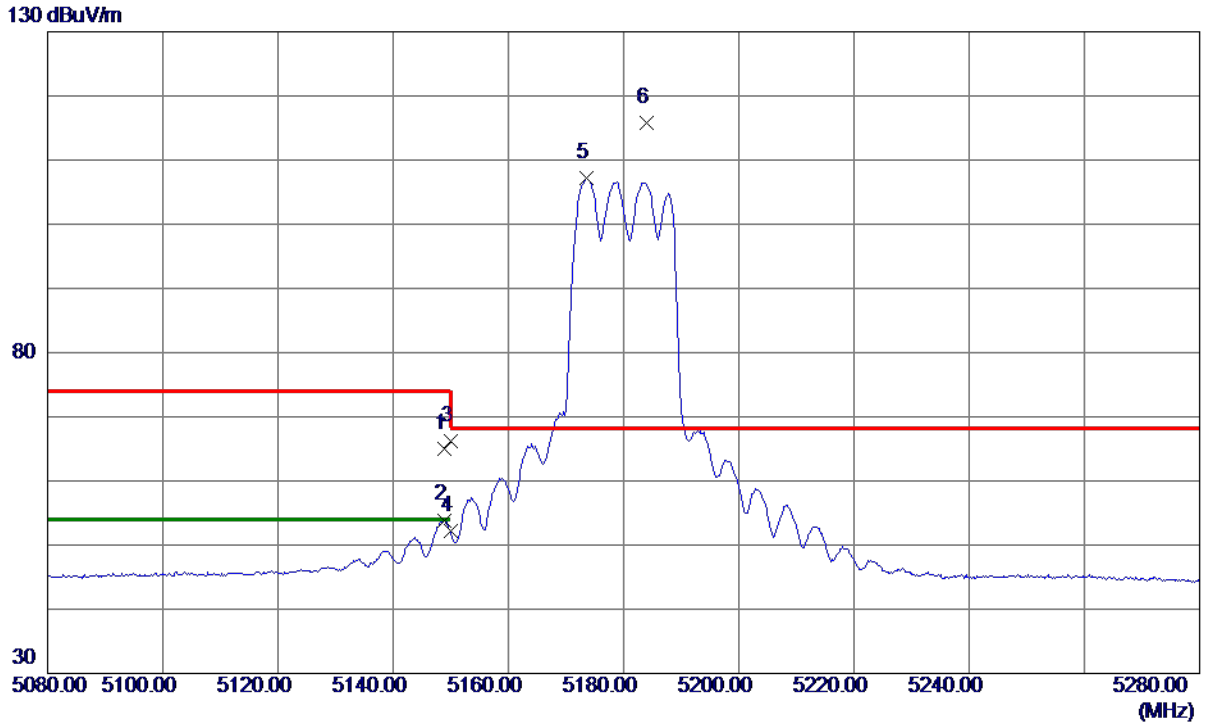

| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 45.5200 | 36.12 | -14.39 | 21.73 | 40.00 | -18.27 | Peak | |
| 2 | 126.5150 | 42.12 | -13.11 | 29.01 | 43.50 | -14.49 | Peak | |
| 3 | 177.4400 | 37.87 | -13.02 | 24.85 | 43.50 | -18.65 | Peak | |
| 4 * | 298.6900 | 54.14 | -11.61 | 42.53 | 46.00 | -3.47 | Peak | |
| 5 | 352.0400 | 47.32 | -10.69 | 36.63 | 46.00 | -9.37 | Peak | |
| 6 | 466.0150 | 47.27 | -8.02 | 39.25 | 46.00 | -6.75 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

# APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5180 MHz |

**Vertical**

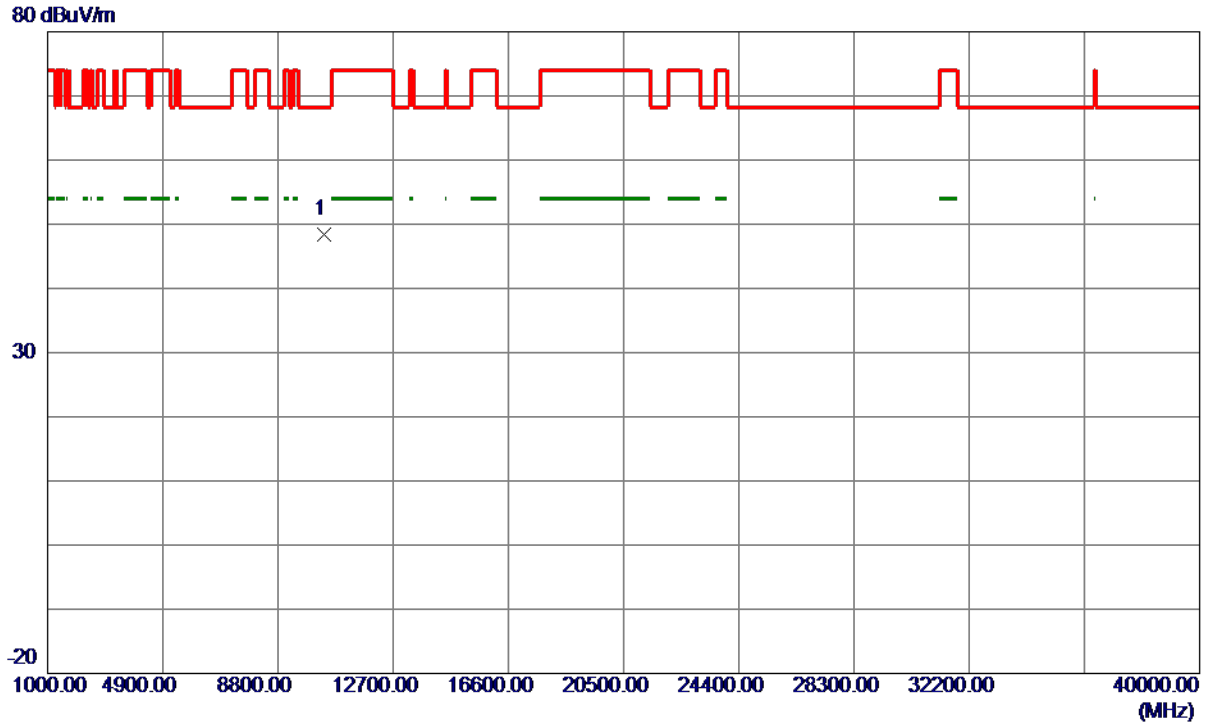



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5148.8000 | 50.02 | 15.01 | 65.03 | 74.00 | -8.97 | Peak | |
| 2 | 5148.8000 | 38.89 | 15.01 | 53.90 | 54.00 | -0.10 | AVG | |
| 3 | 5150.0000 | 51.11 | 15.02 | 66.13 | 74.00 | -7.87 | Peak | |
| 4 | 5150.0000 | 37.14 | 15.02 | 52.16 | 54.00 | -1.84 | AVG | |
| 5 | 5173.6000 | 92.09 | 15.03 | 107.12 | 999.00 | -891.88 | AVG | No Limit |
| 6 * | 5183.9000 | 100.71 | 15.04 | 115.75 | 68.30 | 47.45 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5180 MHz |

**Vertical**

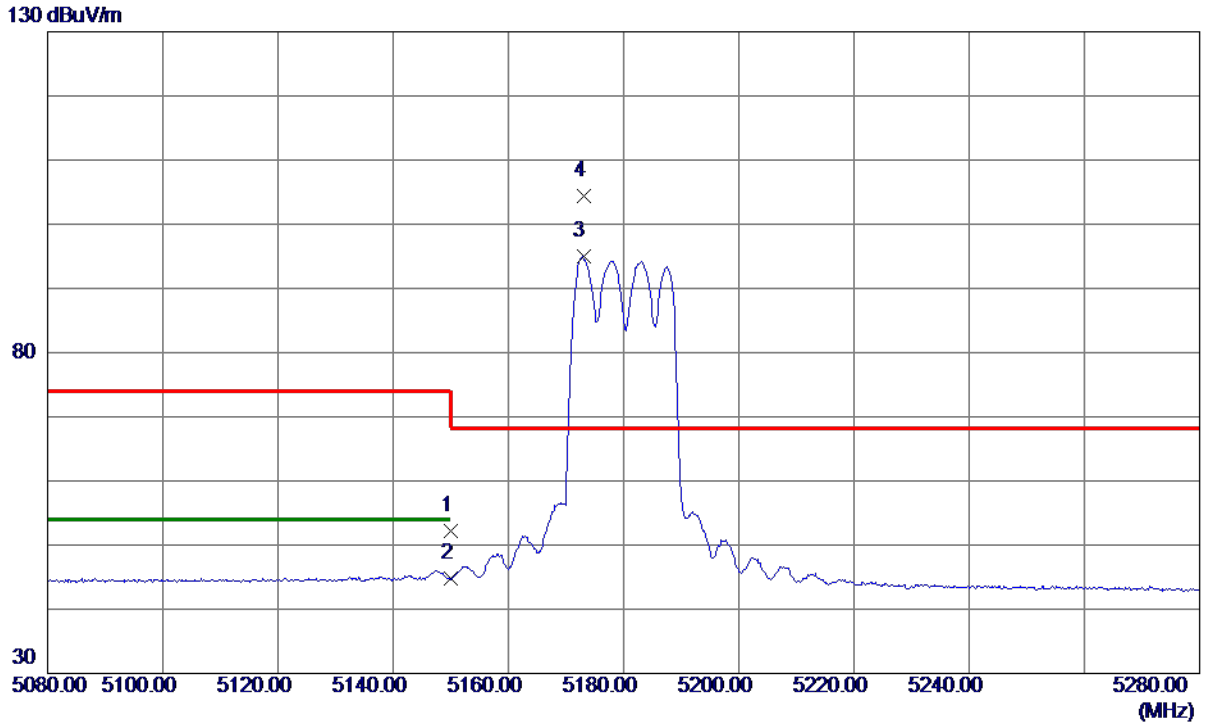



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10359.8259 | 39.68 | 8.77 | 48.45 | 68.30 | -19.85 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5180 MHz |

**Horizontal**

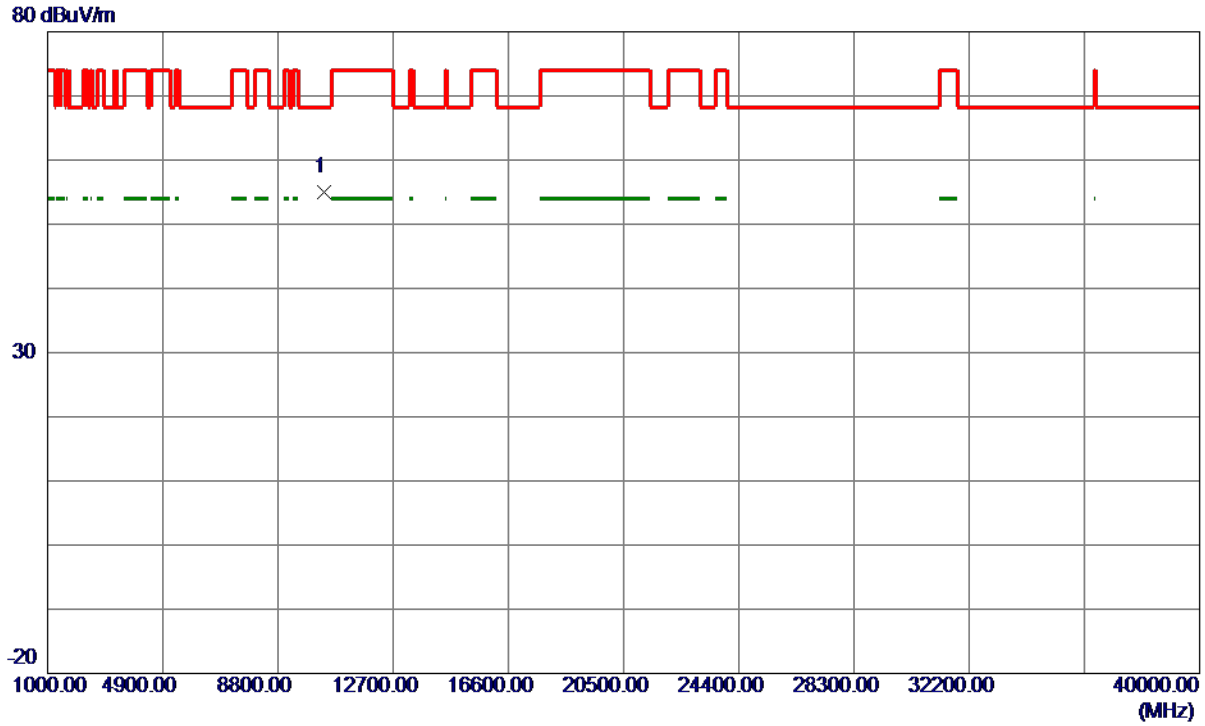



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 37.11 | 15.02 | 52.13 | 74.00 | -21.87 | Peak | |
| 2 | 5150.0000 | 29.76 | 15.02 | 44.78 | 54.00 | -9.22 | AVG | |
| 3 | 5173.0000 | 79.88 | 15.03 | 94.91 | 999.00 | -904.09 | AVG | No Limit |
| 4 * | 5173.2000 | 89.29 | 15.03 | 104.32 | 68.30 | 36.02 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5180 MHz |

**Horizontal**

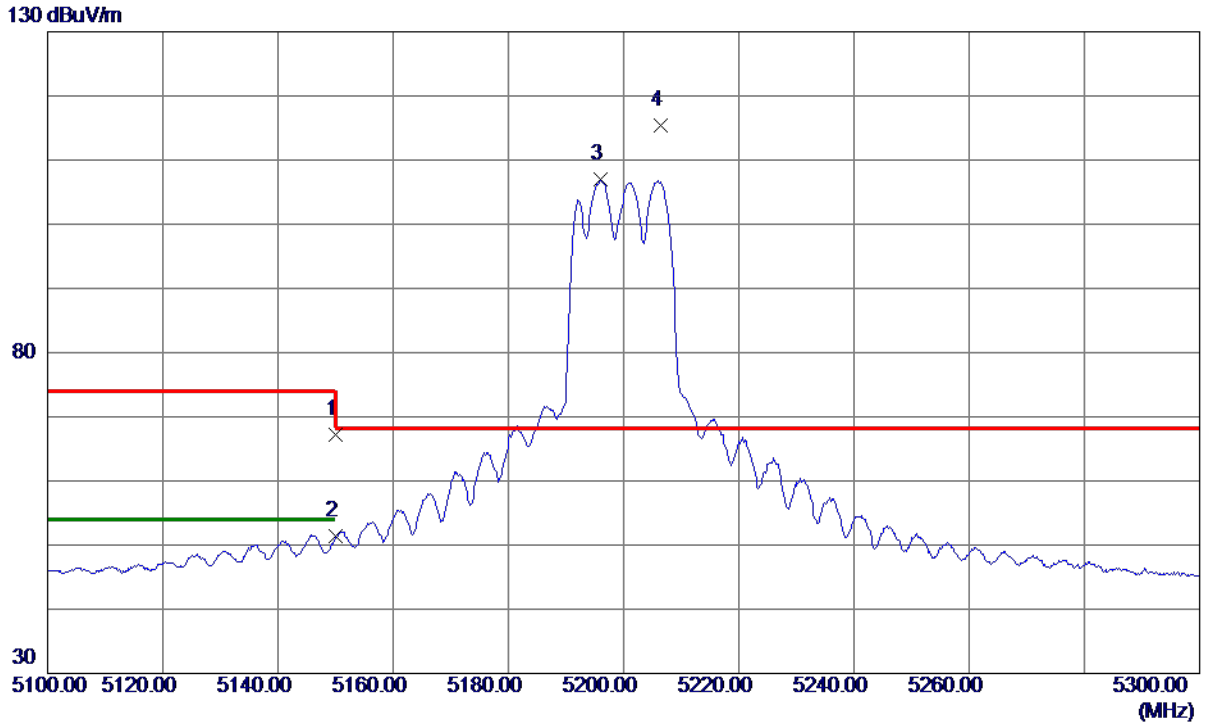



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10359.8970 | 46.20 | 8.77 | 54.97 | 68.30 | -13.33 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5200 MHz |

**Vertical**

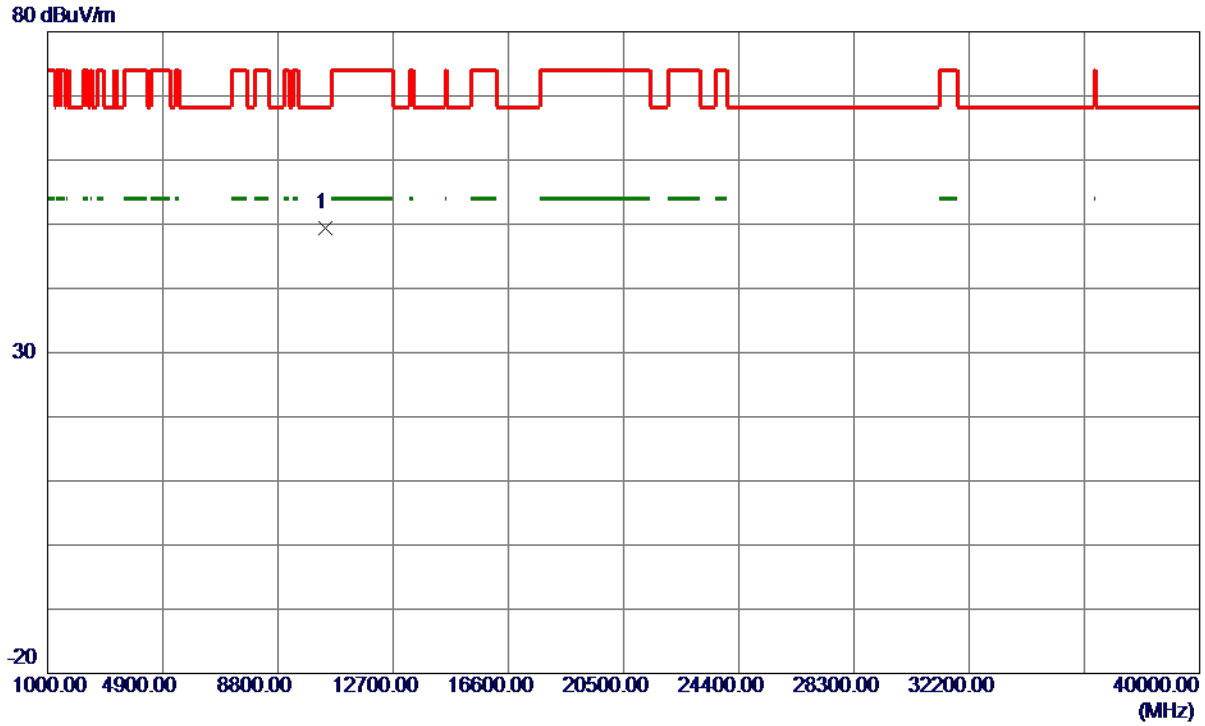



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 52.23 | 15.02 | 67.25 | 74.00 | -6.75 | Peak | |
| 2 | 5150.0000 | 36.29 | 15.02 | 51.31 | 54.00 | -2.69 | AVG | |
| 3 | 5195.9000 | 91.85 | 15.05 | 106.90 | 999.00 | -892.10 | AVG | No Limit |
| 4 * | 5206.4000 | 100.41 | 15.05 | 115.46 | 68.30 | 47.16 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5200 MHz |

**Vertical**

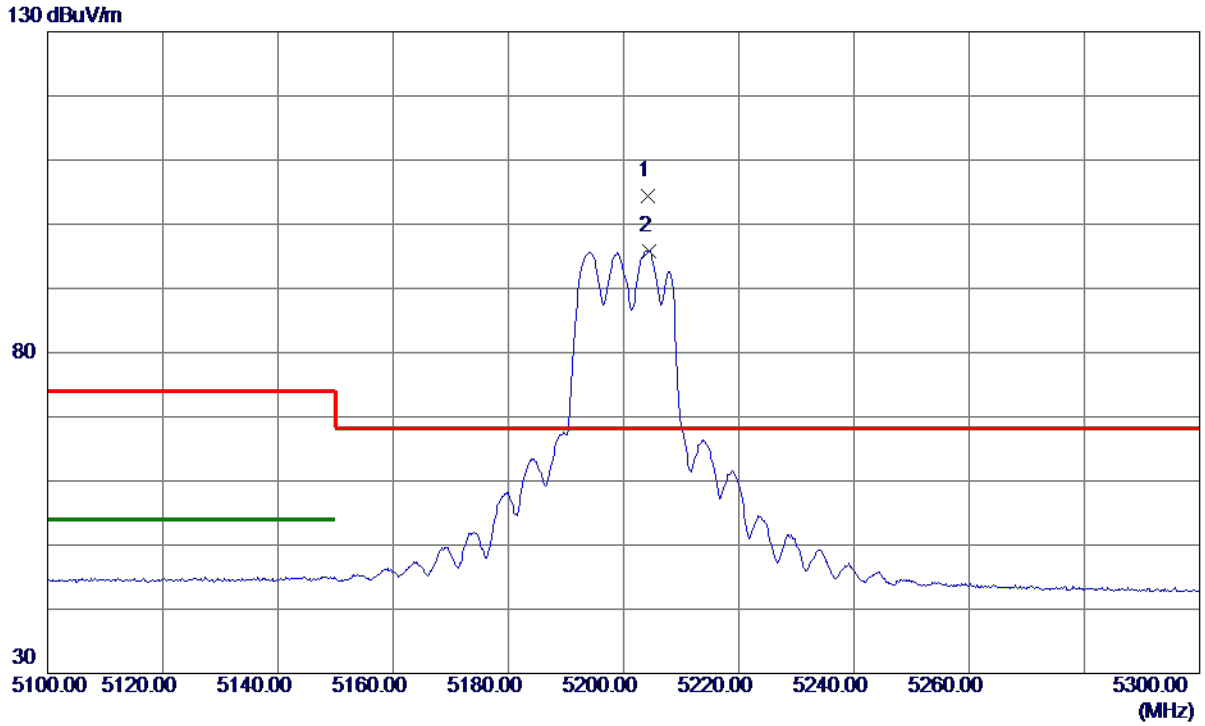



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10399.7440 | 40.57 | 8.85 | 49.42 | 68.30 | -18.88 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5200 MHz |

**Horizontal**

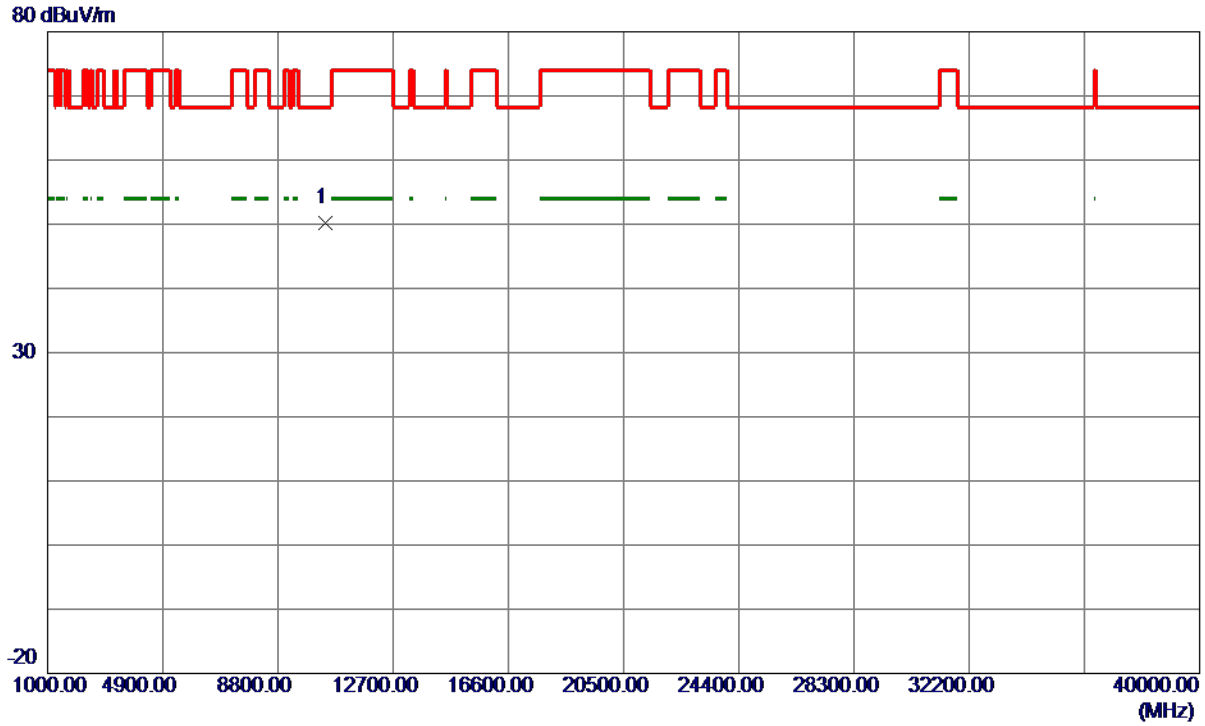



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5204.2000 | 89.41 | 15.05 | 104.46 | 68.30 | 36.16 | Peak | No Limit |
| 2 | 5204.4000 | 80.84 | 15.05 | 95.89 | 999.00 | -903.11 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5200 MHz |

**Horizontal**

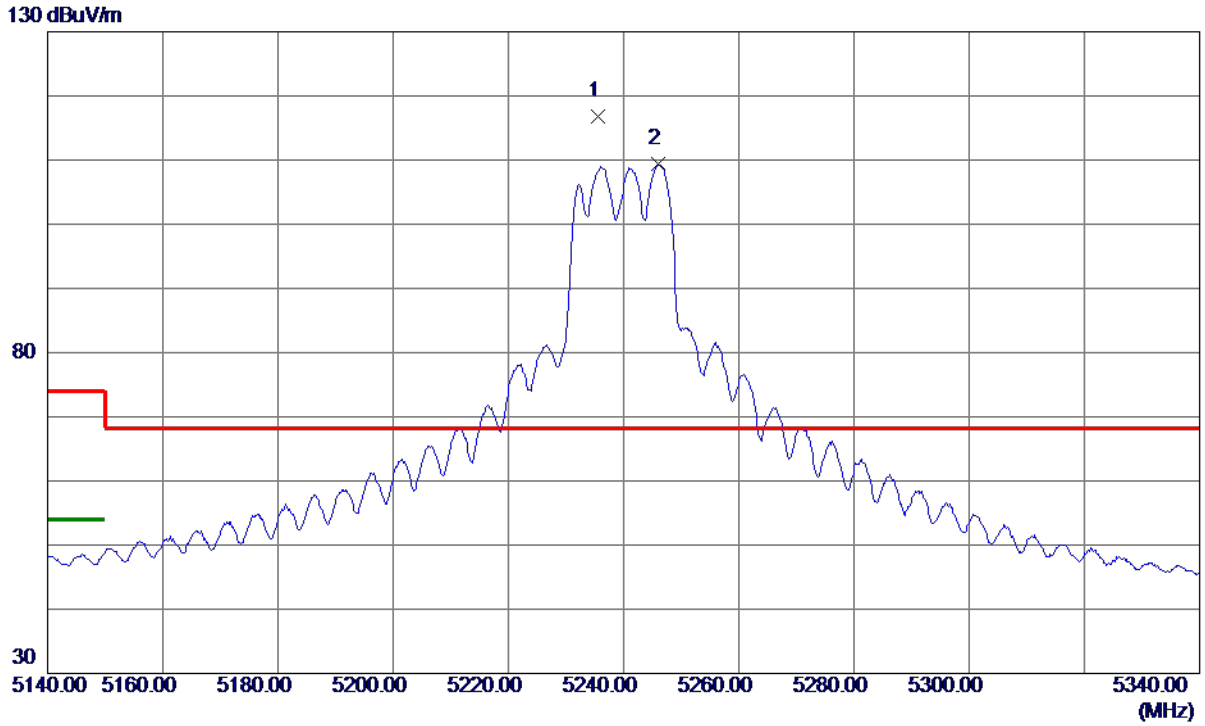



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10399.9920 | 41.28 | 8.85 | 50.13 | 68.30 | -18.17 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5240 MHz |

**Vertical**

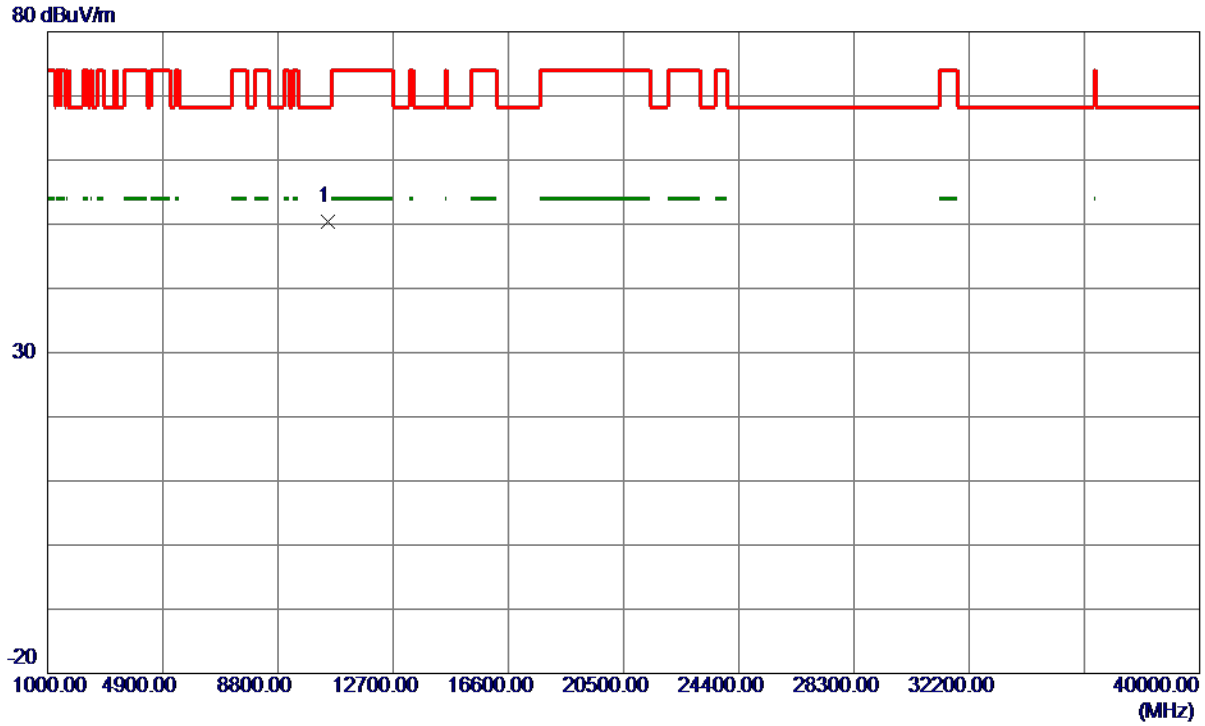



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5235.5000 | 101.81 | 15.07 | 116.88 | 68.30 | 48.58 | Peak | No Limit |
| 2 | 5246.1000 | 94.29 | 15.08 | 109.37 | 999.00 | -889.63 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5240 MHz |

**Vertical**

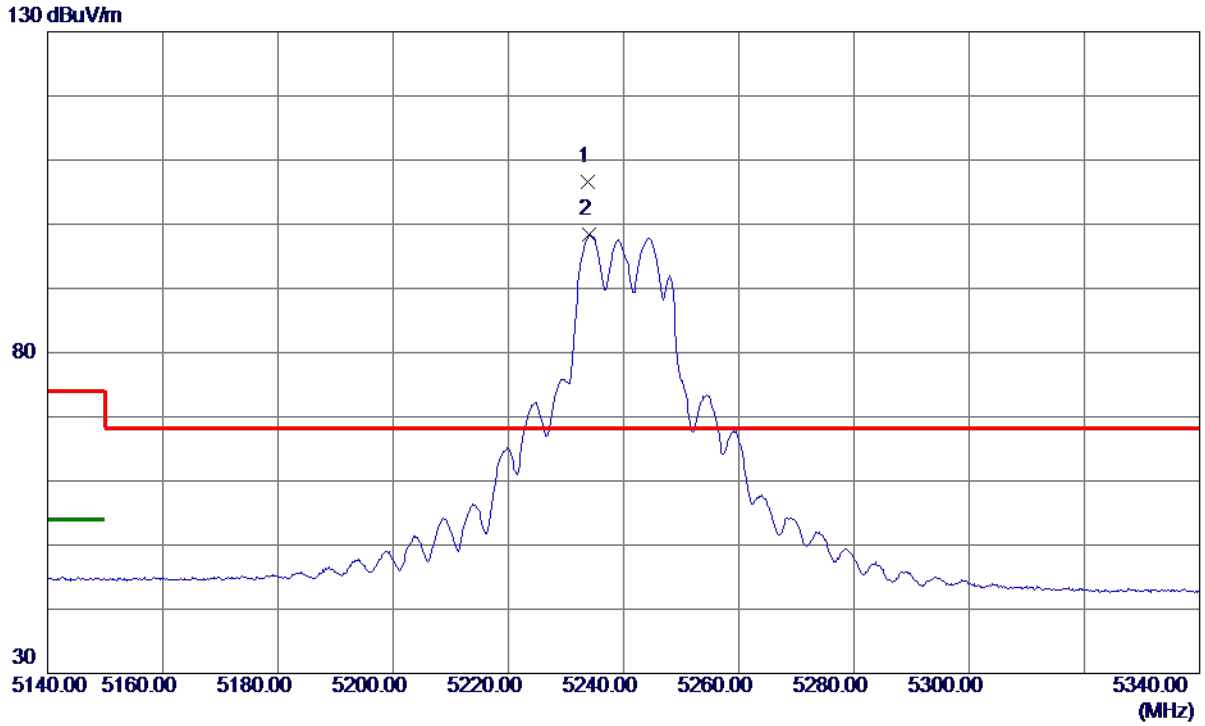



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10479.8850 | 41.31 | 9.02 | 50.33 | 68.30 | -17.97 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5240 MHz |

**Horizontal**

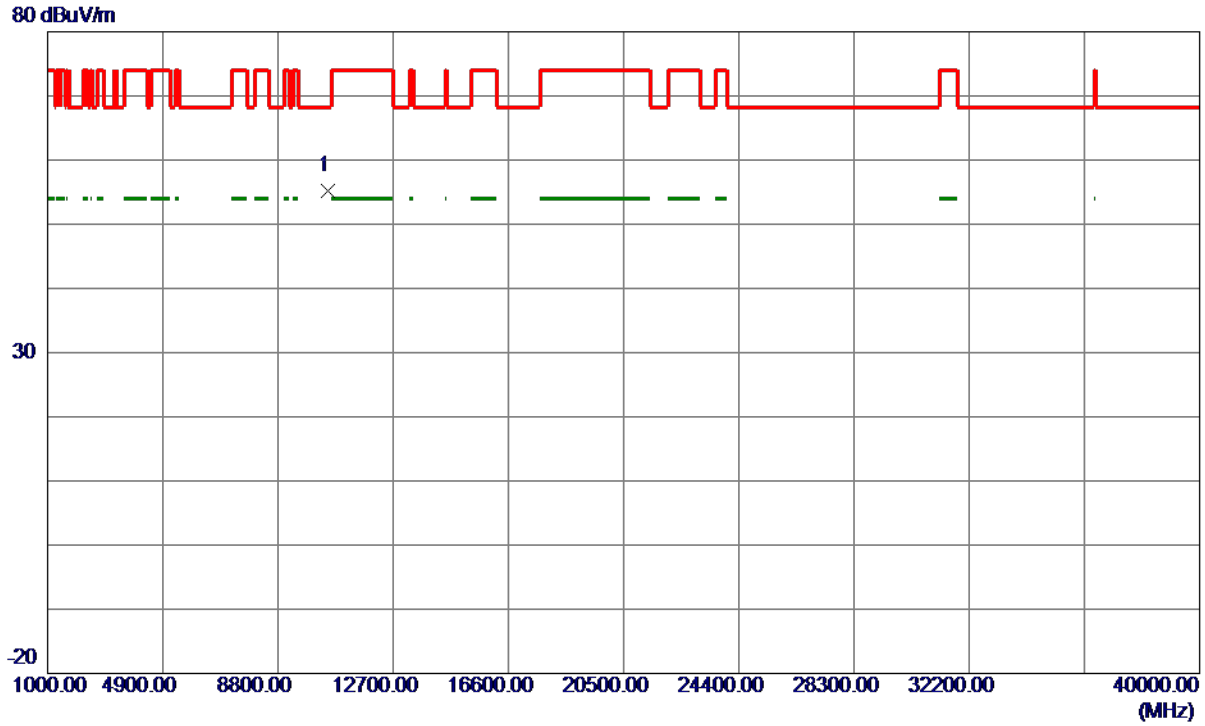



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5233.7000 | 91.54 | 15.07 | 106.61 | 68.30 | 38.31 | Peak | No Limit |
| 2 | 5234.1000 | 83.42 | 15.07 | 98.49 | 999.00 | -900.51 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX A Mode 5240 MHz |

**Horizontal**

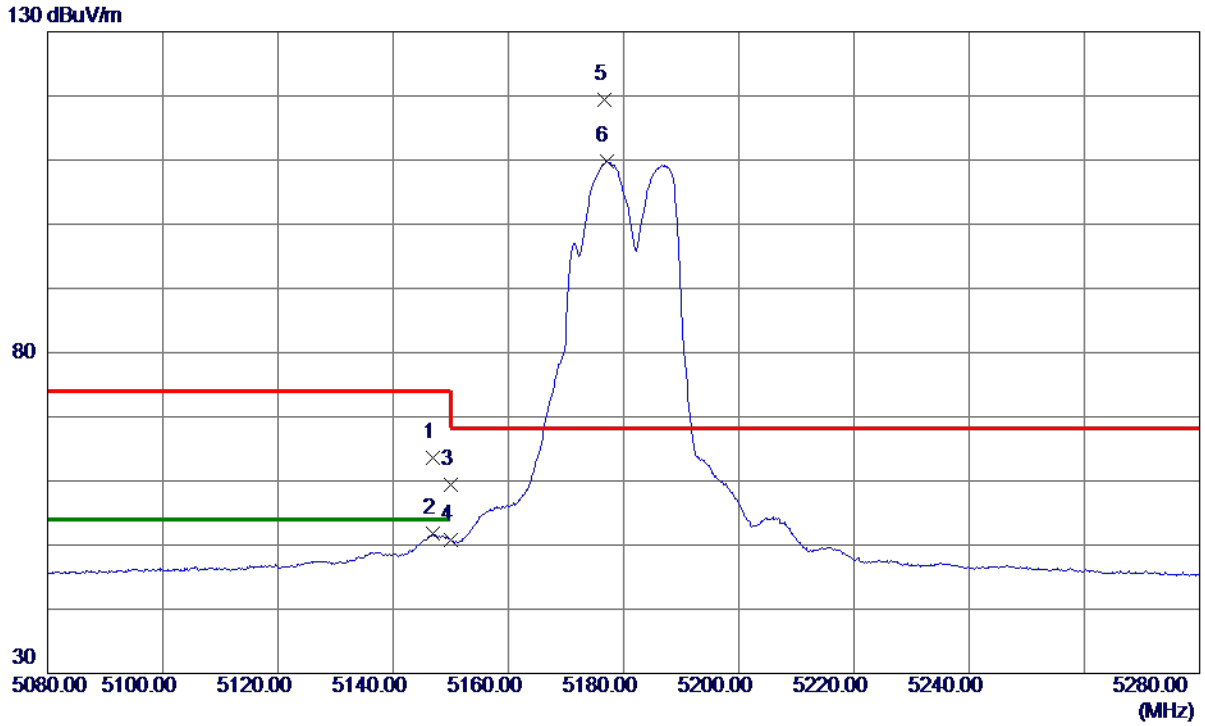



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10479.9950 | 46.24 | 9.02 | 55.26 | 68.30 | -13.04 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5180 MHz |

**Vertical**

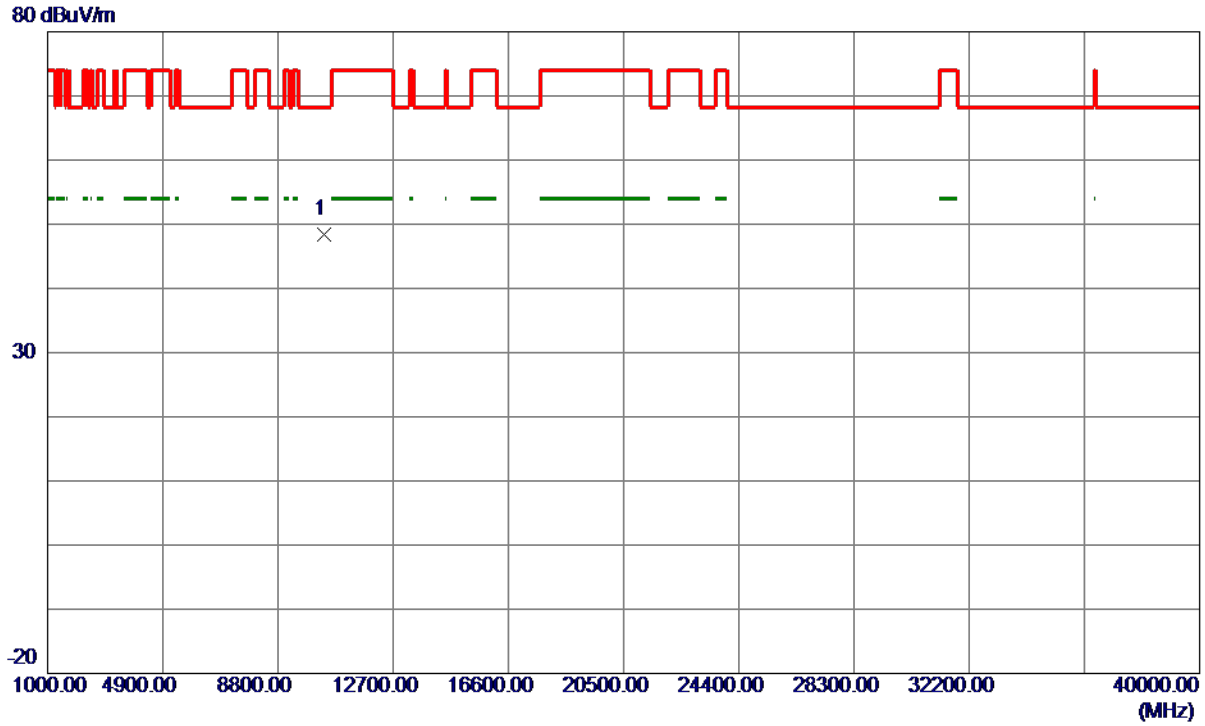



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5146.9000 | 48.56 | 15.01 | 63.57 | 74.00 | -10.43 | Peak | |
| 2 | 5146.9000 | 36.80 | 15.01 | 51.81 | 54.00 | -2.19 | AVG | |
| 3 | 5150.0000 | 44.37 | 15.02 | 59.39 | 74.00 | -14.61 | Peak | |
| 4 | 5150.0000 | 35.79 | 15.02 | 50.81 | 54.00 | -3.19 | AVG | |
| 5 * | 5176.7000 | 104.34 | 15.03 | 119.37 | 68.30 | 51.07 | Peak | No Limit |
| 6 | 5177.0000 | 94.77 | 15.03 | 109.80 | 999.00 | -889.20 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5180 MHz |

**Vertical**

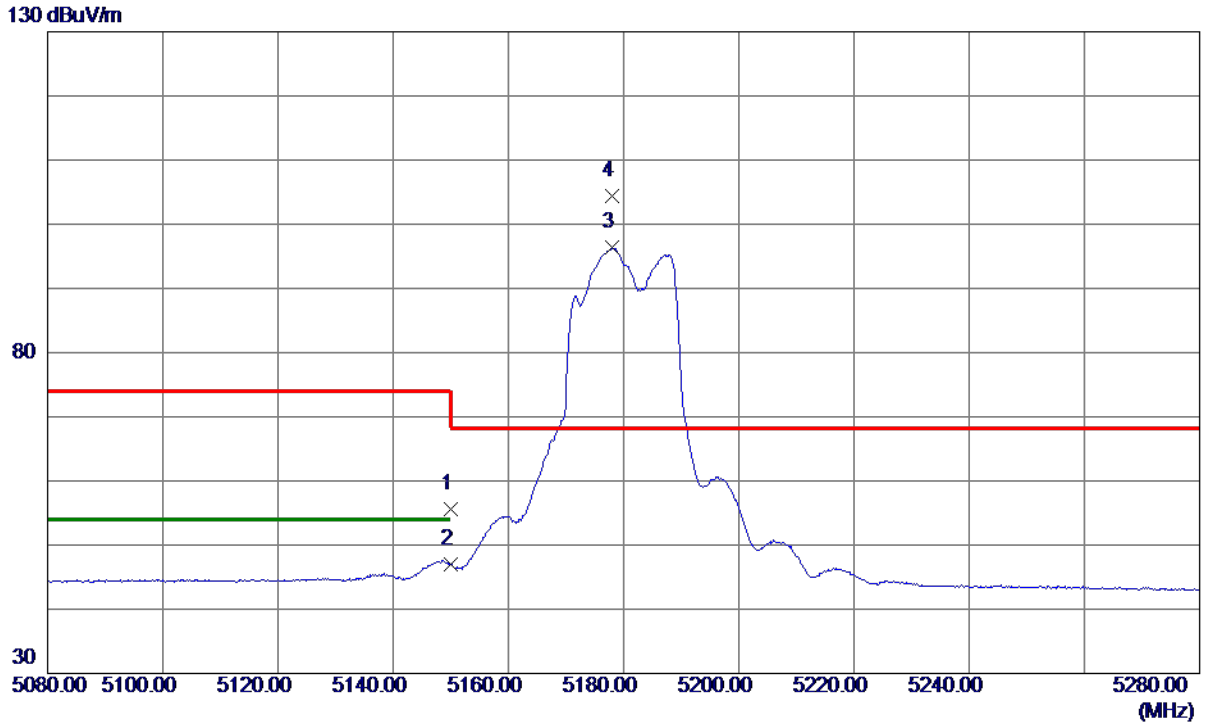



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10360.0900 | 39.69 | 8.77 | 48.46 | 68.30 | -19.84 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5180 MHz |

**Horizontal**

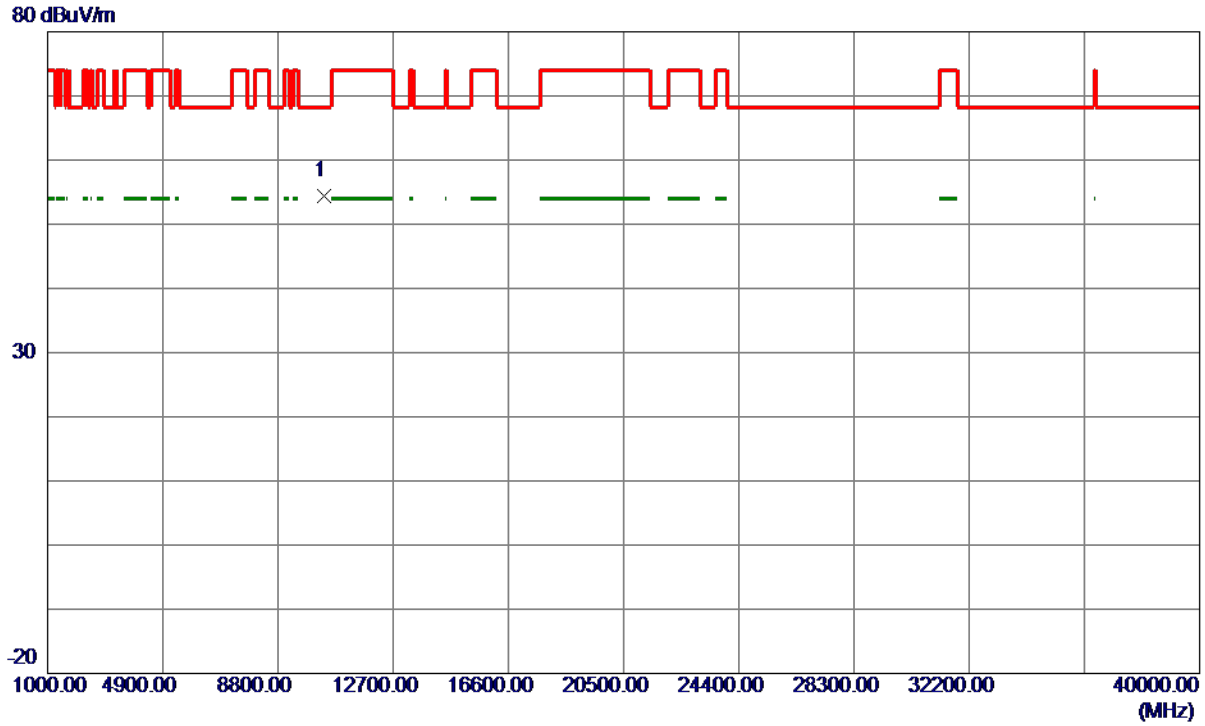



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 40.51 | 15.02 | 55.53 | 74.00 | -18.47 | Peak | |
| 2 | 5150.0000 | 31.99 | 15.02 | 47.01 | 54.00 | -6.99 | AVG | |
| 3 | 5177.9000 | 81.35 | 15.03 | 96.38 | 999.00 | -902.62 | AVG | No Limit |
| 4 * | 5178.1000 | 89.34 | 15.03 | 104.37 | 68.30 | 36.07 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5180 MHz |

**Horizontal**

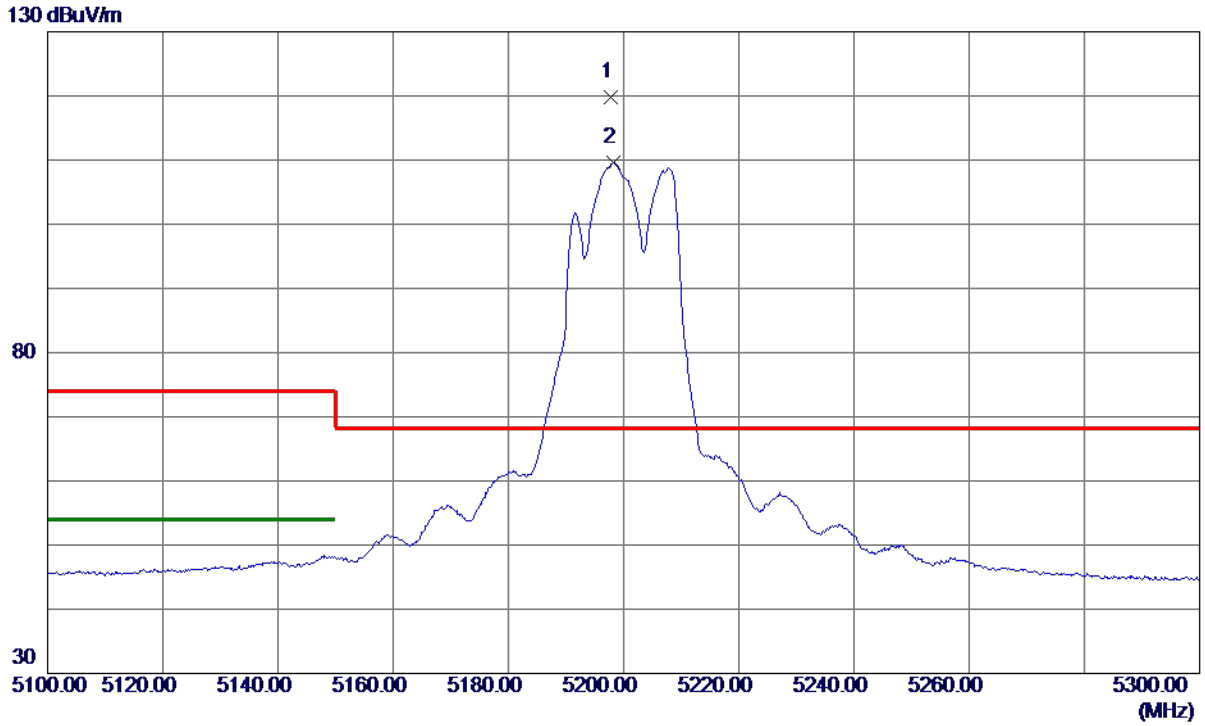



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10359.8730 | 45.59 | 8.77 | 54.36 | 68.30 | -13.94 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5200 MHz |

**Vertical**

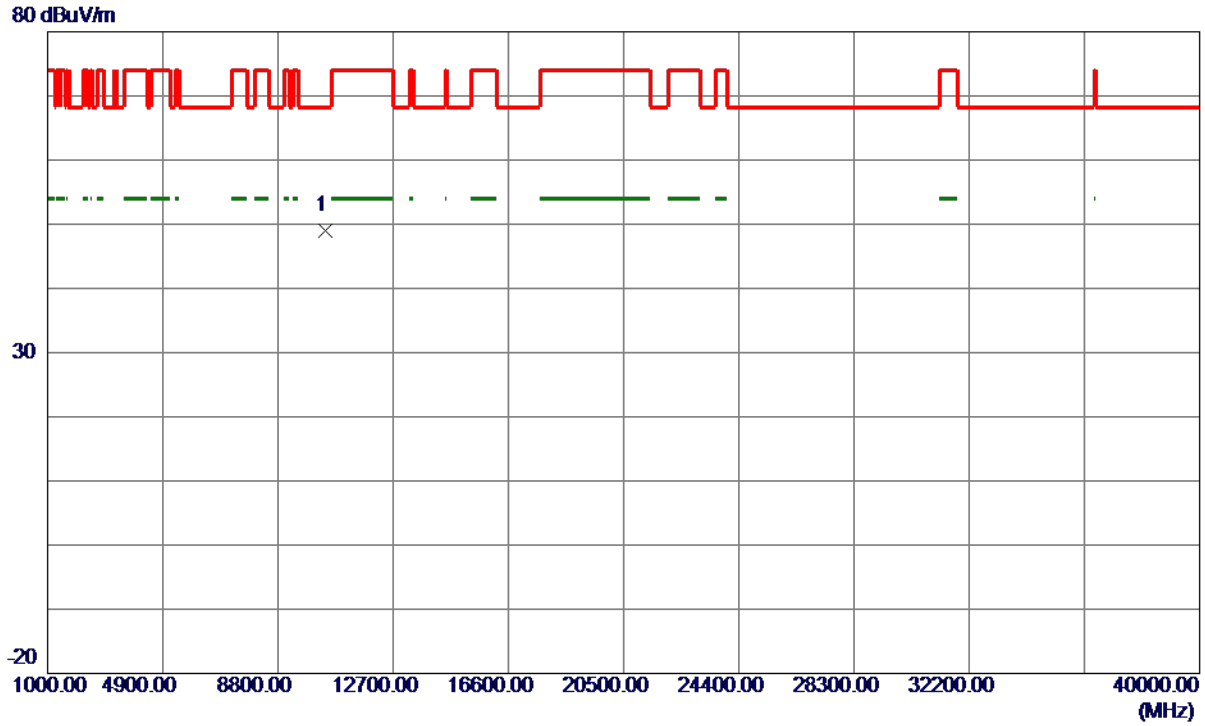



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5197.8000 | 104.81 | 15.05 | 119.86 | 68.30 | 51.56 | Peak | No Limit |
| 2 | 5198.3000 | 94.54 | 15.05 | 109.59 | 999.00 | -889.41 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5200 MHz |

**Vertical**

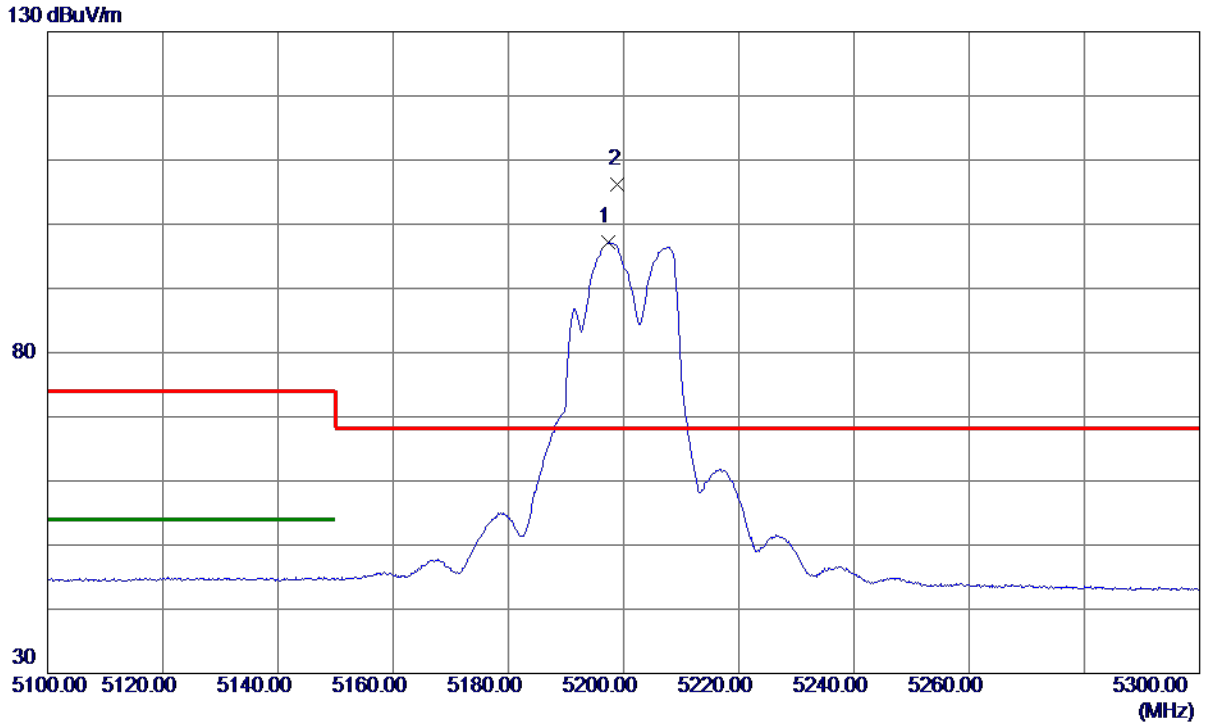



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10399.9990 | 40.16 | 8.85 | 49.01 | 68.30 | -19.29 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5200 MHz |

**Horizontal**

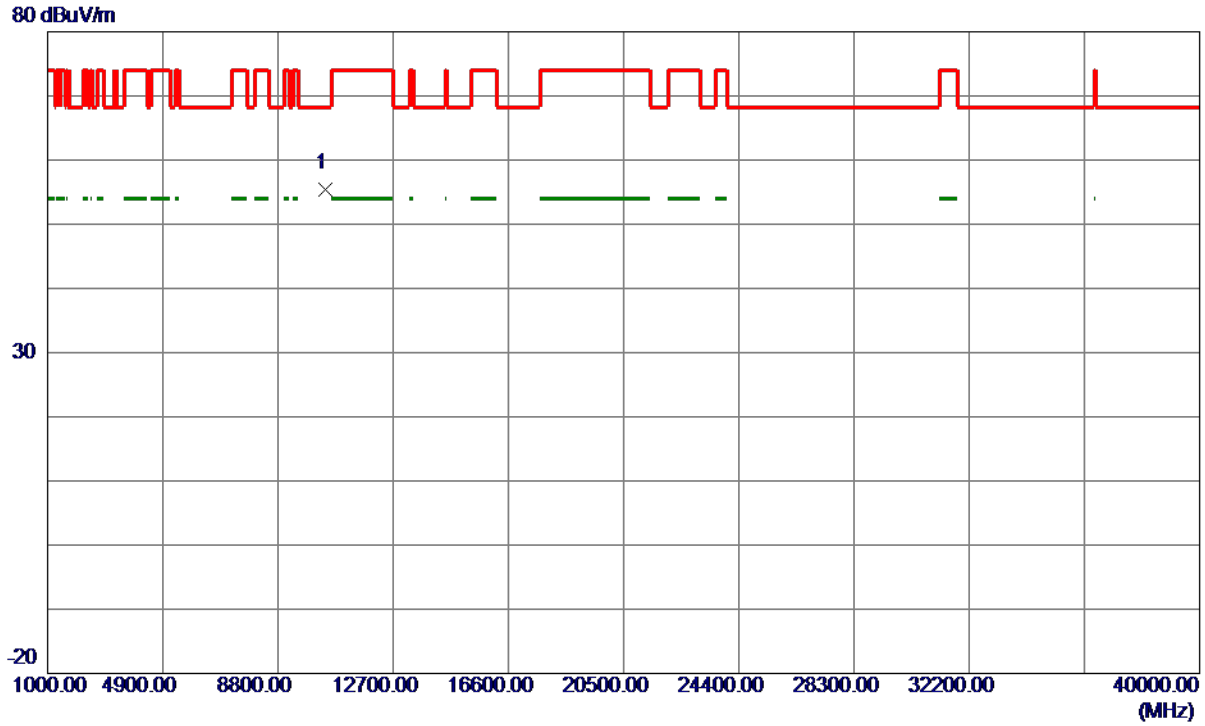



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5197.4000 | 82.20 | 15.05 | 97.25 | 999.00 | -901.75 | AVG | No Limit |
| 2 * | 5199.0000 | 91.16 | 15.05 | 106.21 | 68.30 | 37.91 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5200 MHz |

**Horizontal**

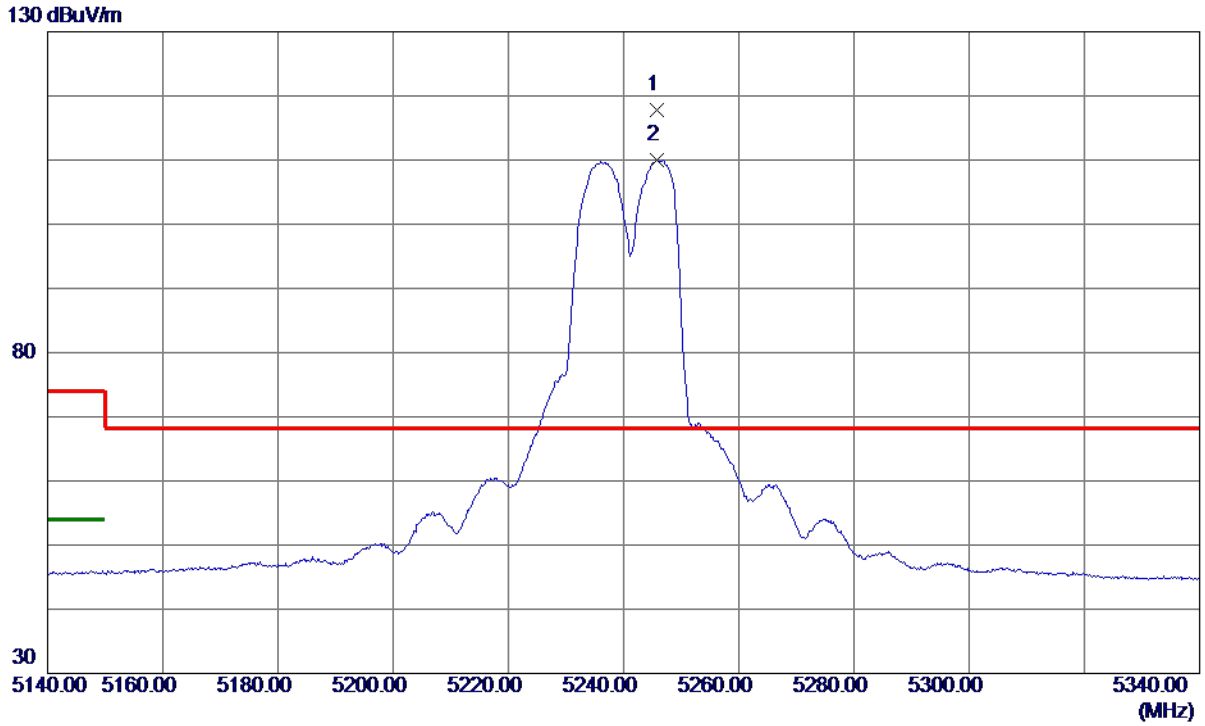



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10400.1060 | 46.65 | 8.85 | 55.50 | 68.30 | -12.80 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5240 MHz |

**Vertical**

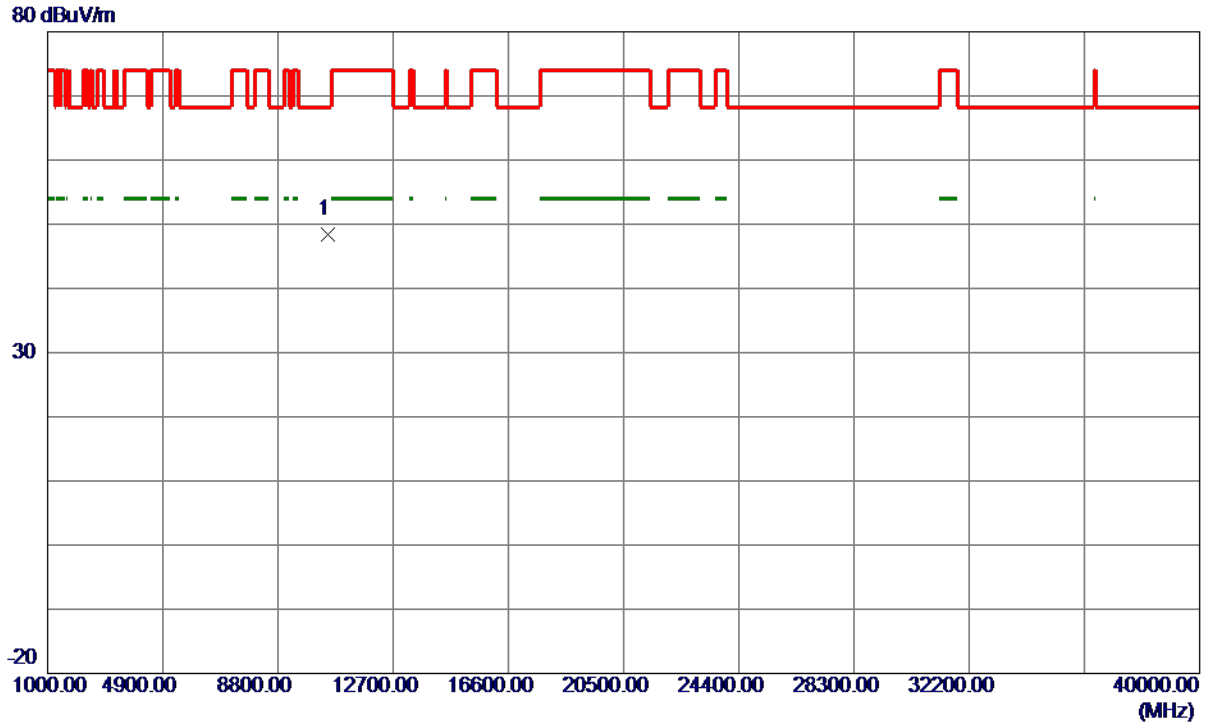



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5245.8000 | 102.62 | 15.08 | 117.70 | 68.30 | 49.40 | Peak | No Limit |
| 2 | 5245.8000 | 94.89 | 15.08 | 109.97 | 999.00 | -889.03 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5240 MHz |

**Vertical**

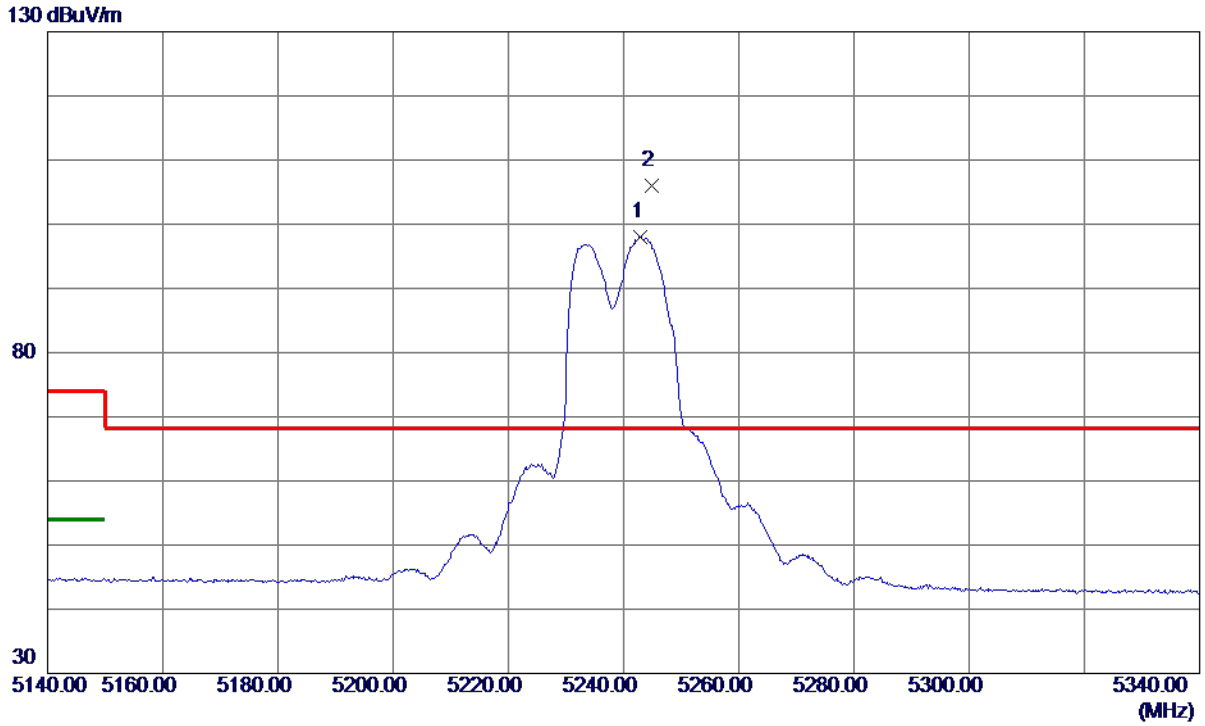



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10479.8570 | 39.41 | 9.02 | 48.43 | 68.30 | -19.87 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5240 MHz |

**Horizontal**

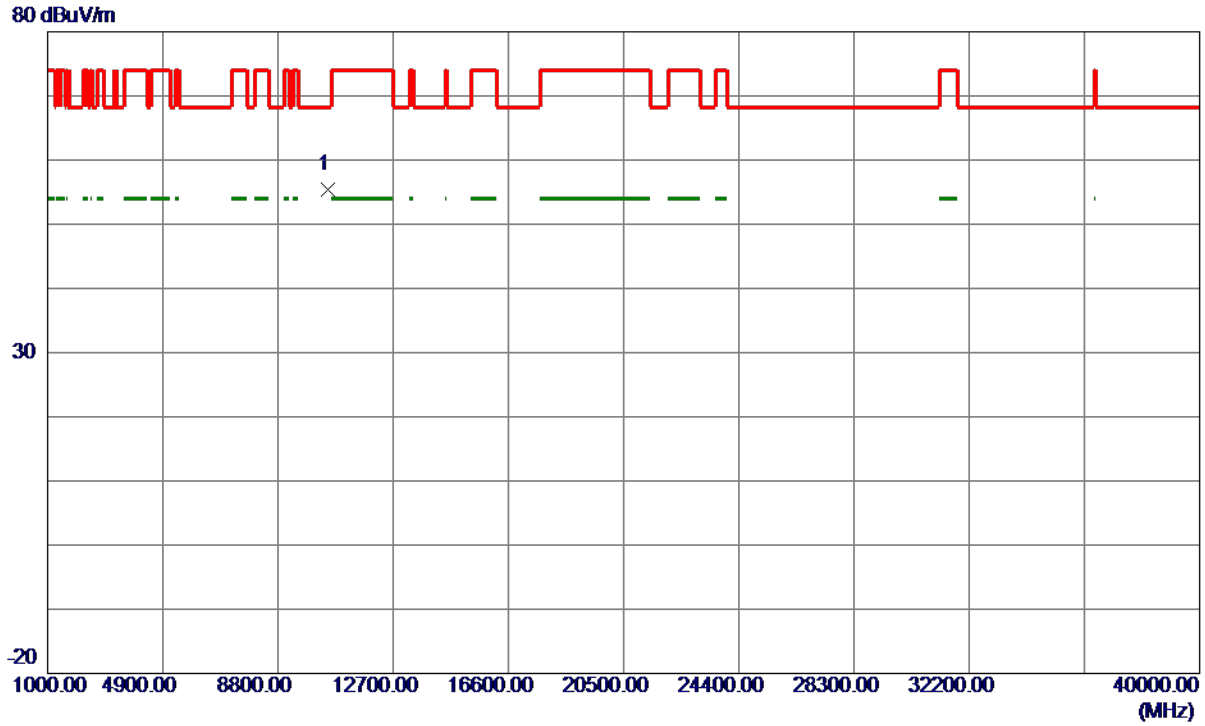



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5243.0000 | 83.01 | 15.08 | 98.09 | 999.00 | -900.91 | AVG | No Limit |
| 2 * | 5244.8000 | 90.97 | 15.08 | 106.05 | 68.30 | 37.75 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT20) Mode 5240 MHz |

**Horizontal**

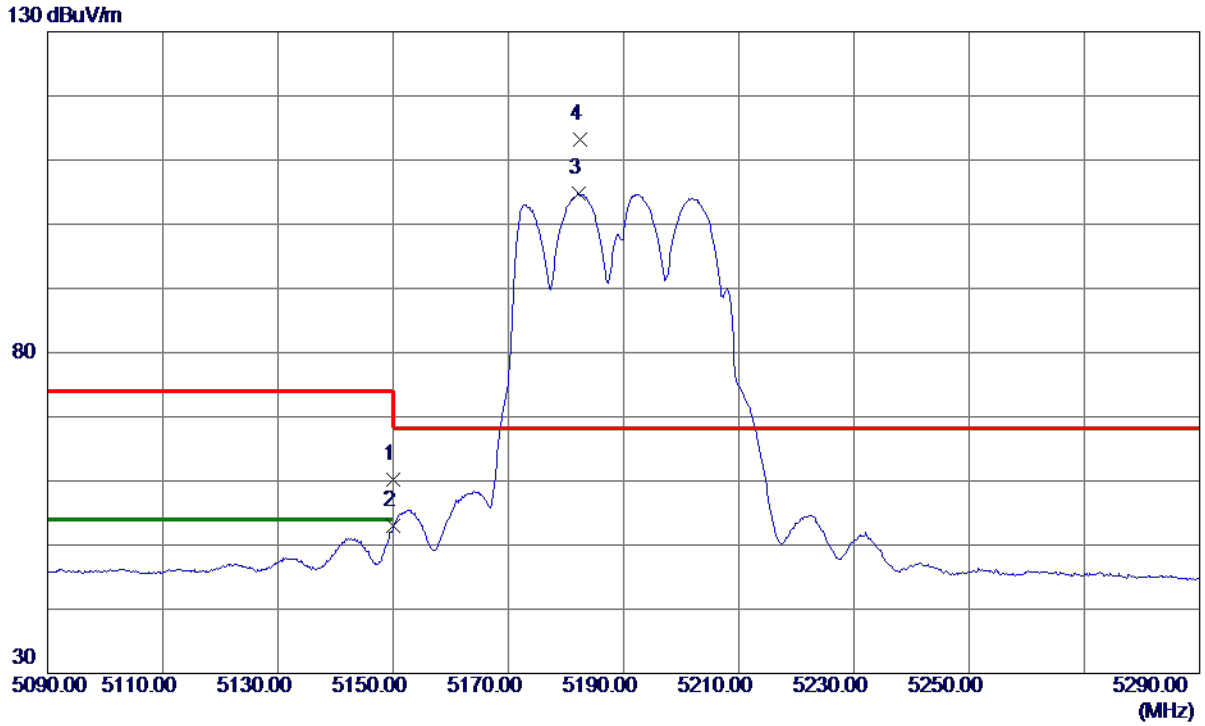



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10479.8630 | 46.38 | 9.02 | 55.40 | 68.30 | -12.90 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT40) Mode 5190 MHz |

**Vertical**

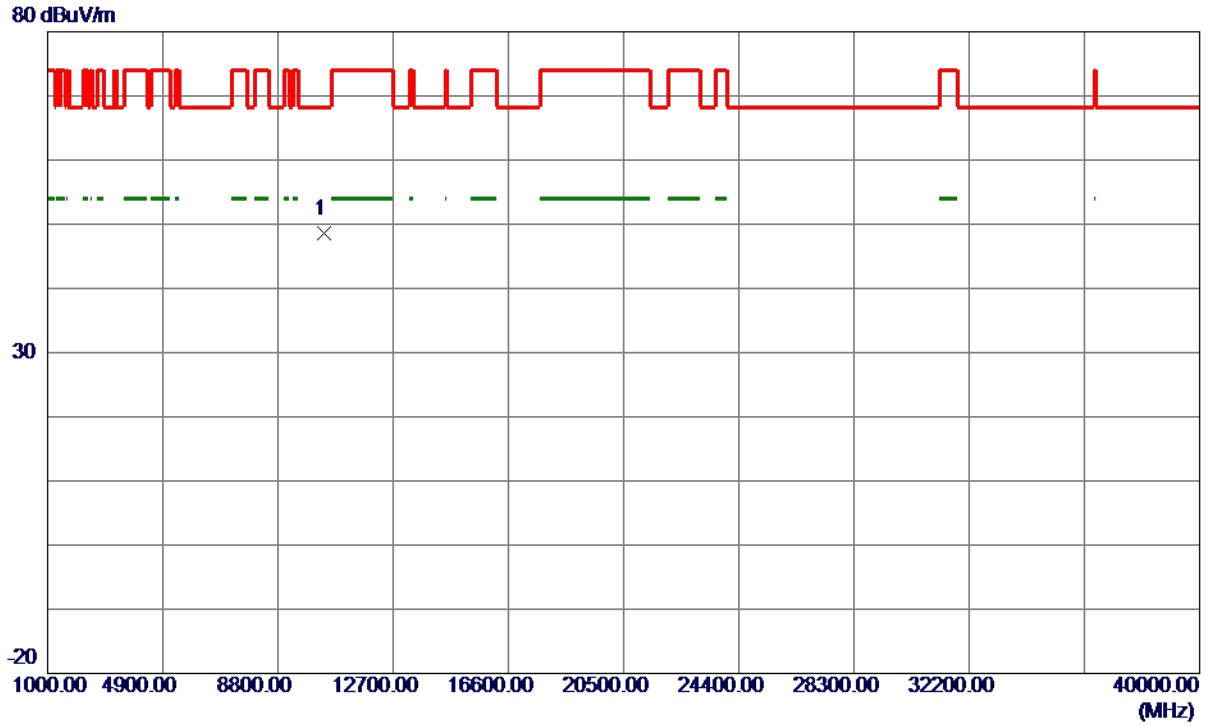



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 45.12 | 15.02 | 60.14 | 74.00 | -13.86 | Peak | |
| 2 | 5150.0000 | 38.01 | 15.02 | 53.03 | 54.00 | -0.97 | AVG | |
| 3 | 5182.2000 | 89.77 | 15.04 | 104.81 | 999.00 | -894.19 | AVG | No Limit |
| 4 * | 5182.4000 | 98.22 | 15.04 | 113.26 | 68.30 | 44.96 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT40) Mode 5190 MHz |

**Vertical**

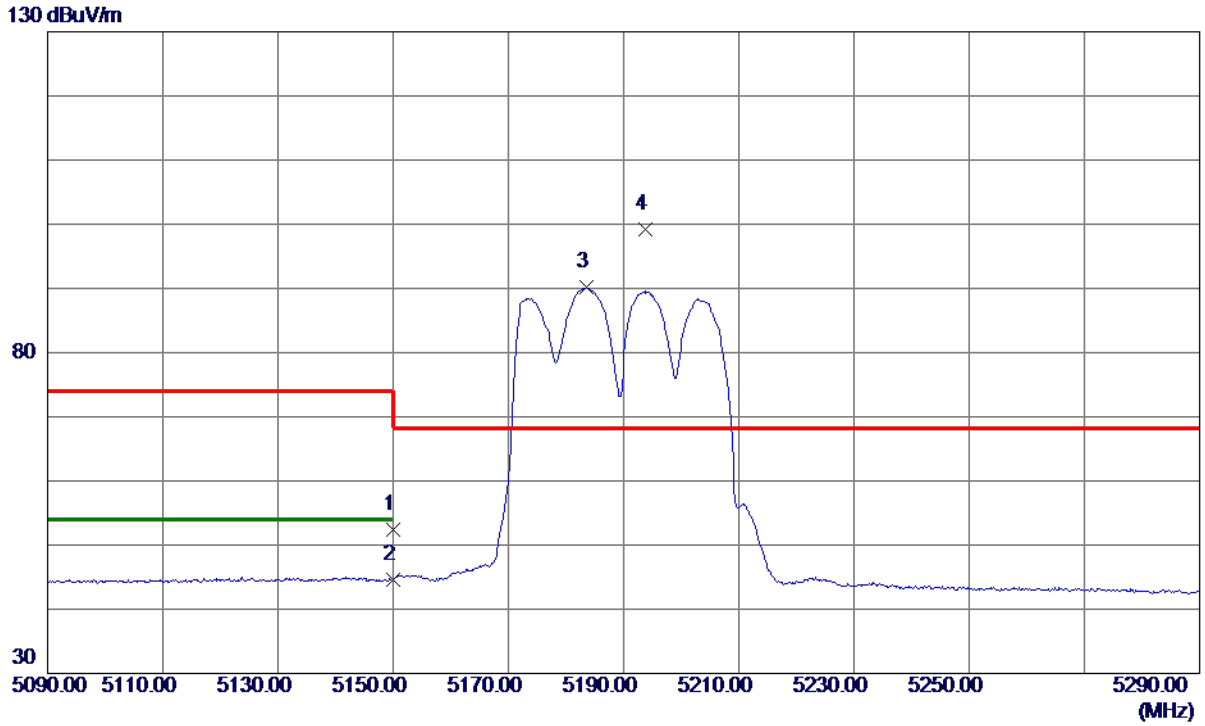



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10379.6929 | 39.69 | 8.81 | 48.50 | 68.30 | -19.80 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT40) Mode 5190 MHz |

**Horizontal**

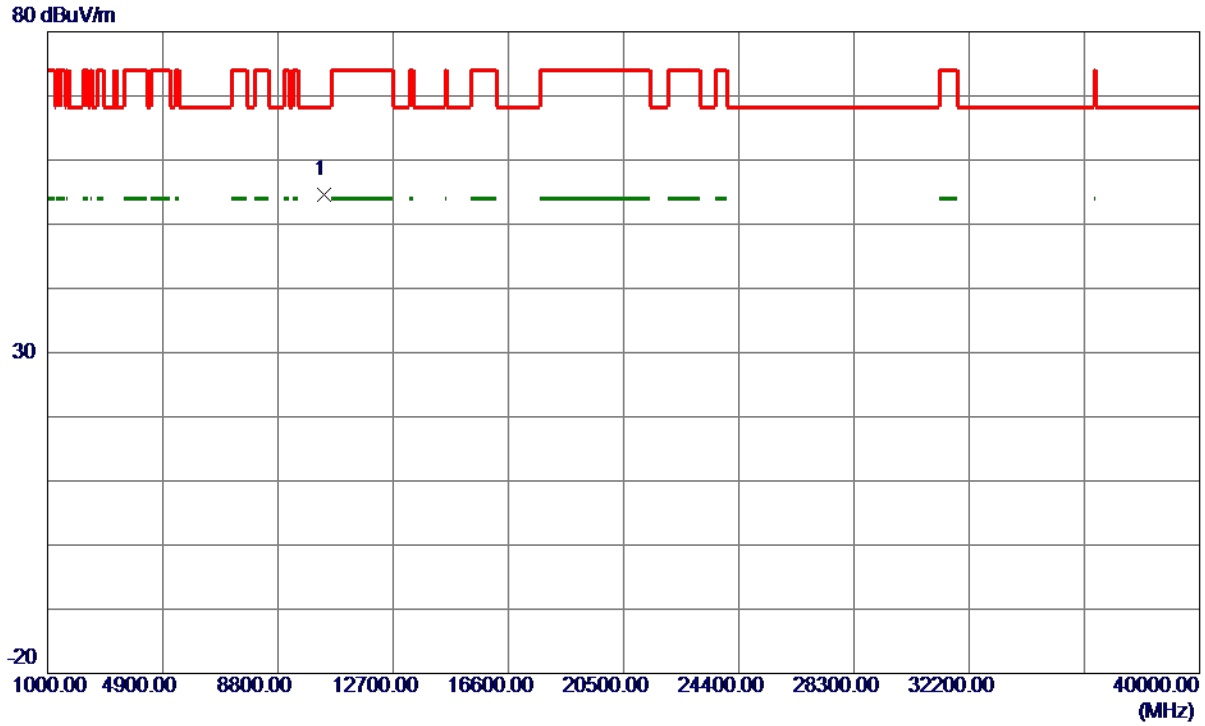



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 37.43 | 15.02 | 52.45 | 74.00 | -21.55 | Peak | |
| 2 | 5150.0000 | 29.61 | 15.02 | 44.63 | 54.00 | -9.37 | AVG | |
| 3 | 5183.5000 | 75.20 | 15.04 | 90.24 | 999.00 | -908.76 | AVG | No Limit |
| 4 * | 5193.7000 | 84.15 | 15.05 | 99.20 | 68.30 | 30.90 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT40) Mode 5190 MHz |

**Horizontal**

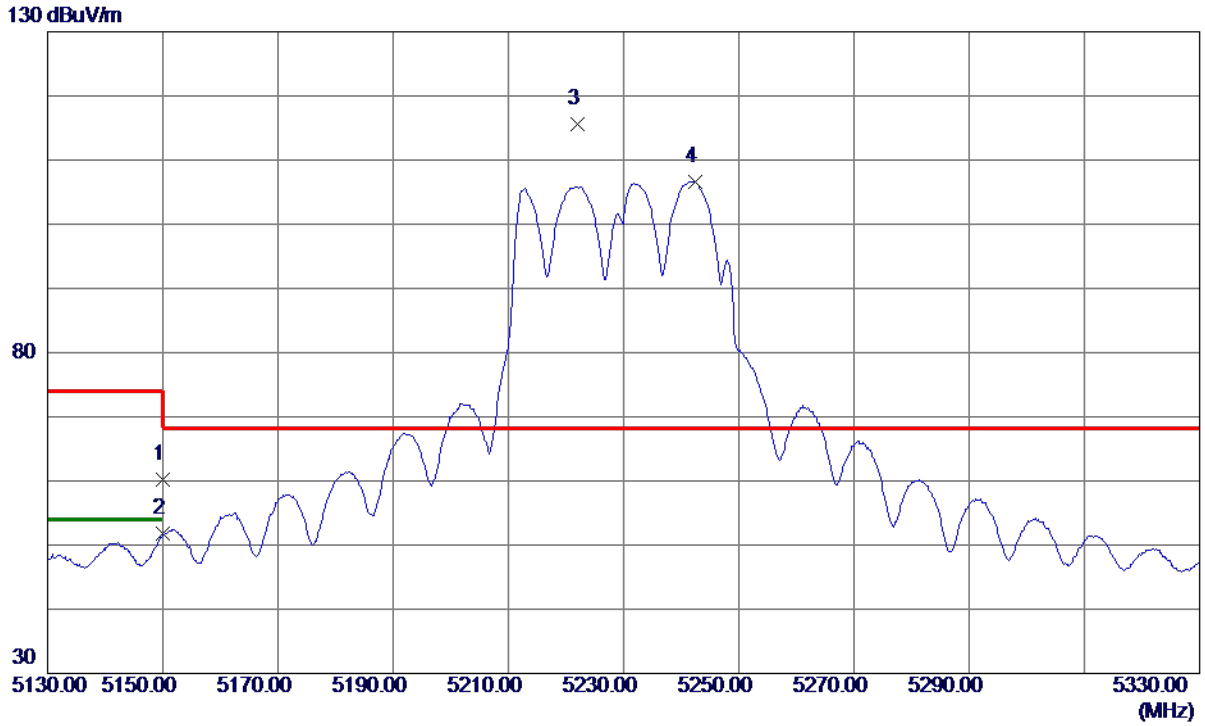



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10379.9250 | 45.83 | 8.81 | 54.64 | 68.30 | -13.66 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT40) Mode 5230 MHz |

**Vertical**

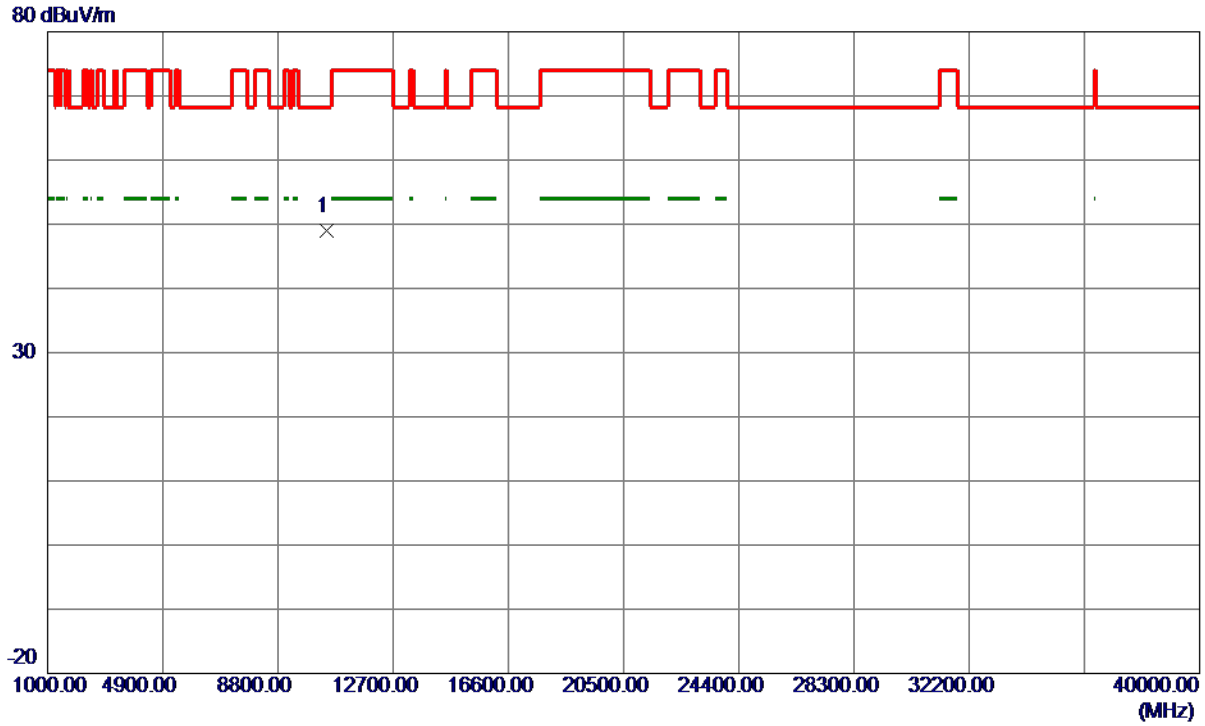



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 45.14 | 15.02 | 60.16 | 74.00 | -13.84 | Peak | |
| 2 | 5150.0000 | 36.70 | 15.02 | 51.72 | 54.00 | -2.28 | AVG | |
| 3 * | 5222.1000 | 100.52 | 15.07 | 115.59 | 68.30 | 47.29 | Peak | No Limit |
| 4 | 5242.5000 | 91.61 | 15.08 | 106.69 | 999.00 | -892.31 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT40) Mode 5230 MHz |

**Vertical**

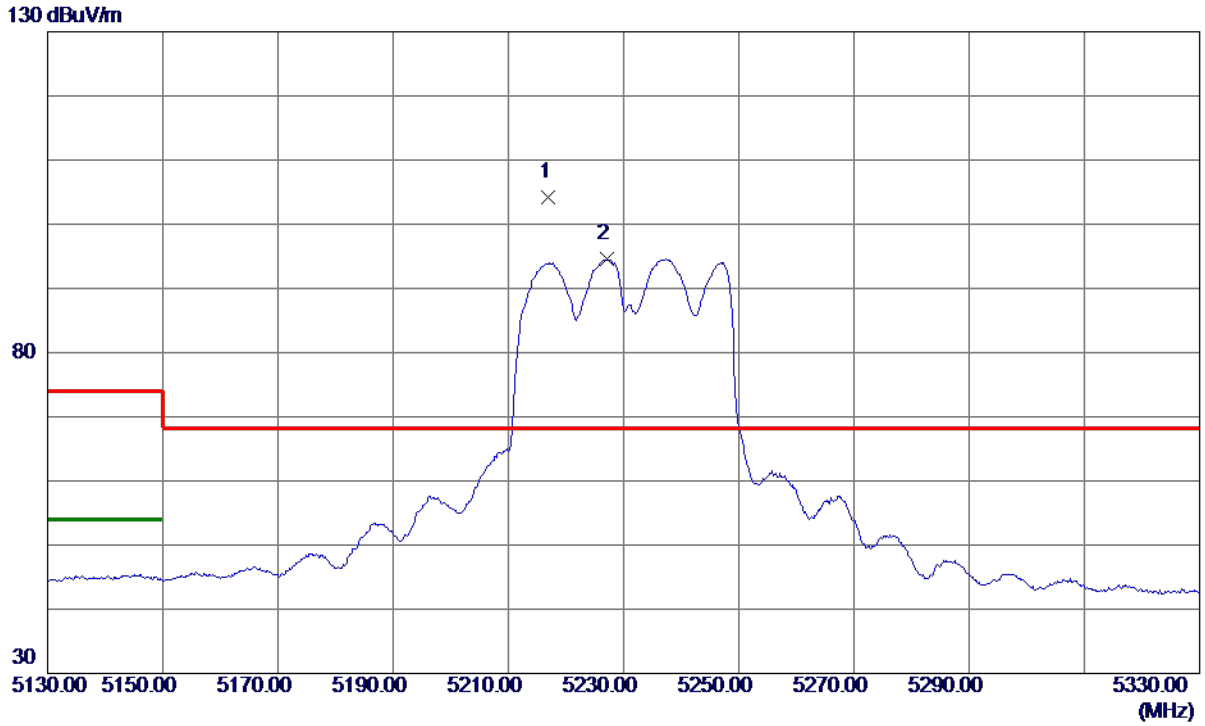



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10459.8370 | 39.92 | 8.98 | 48.90 | 68.30 | -19.40 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT40) Mode 5230 MHz |

**Horizontal**

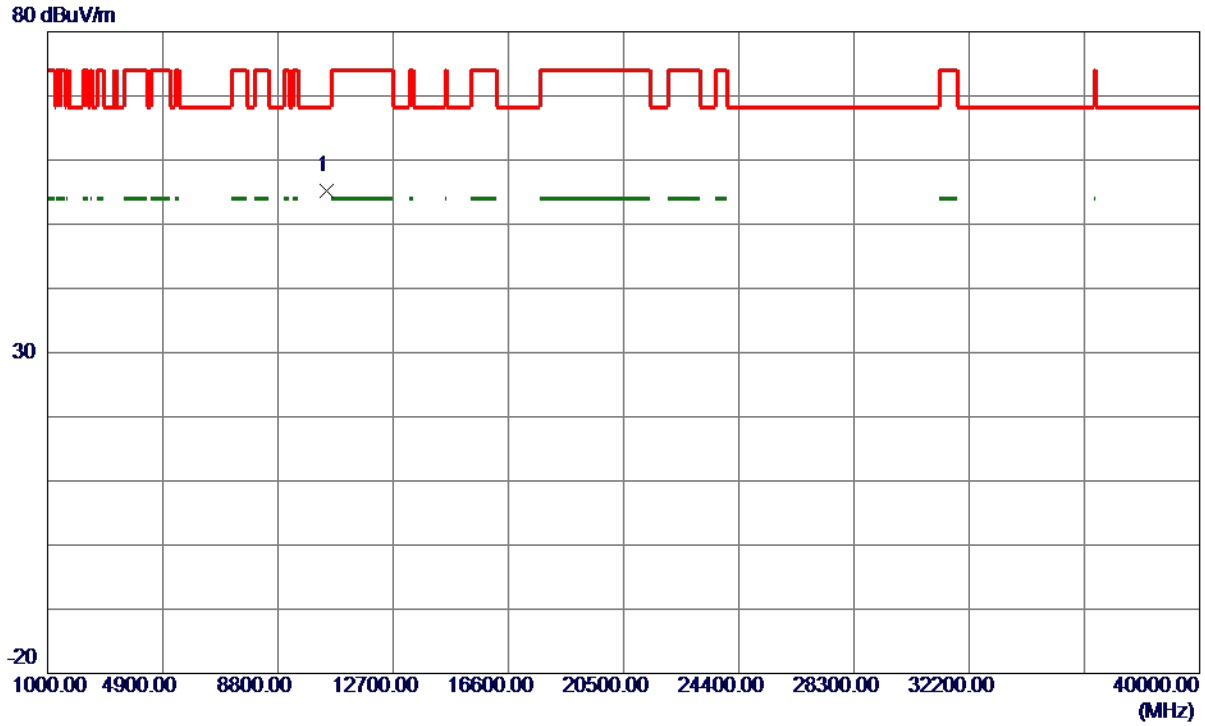



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5217.0000 | 89.16 | 15.06 | 104.22 | 68.30 | 35.92 | Peak | No Limit |
| 2 | 5227.1000 | 79.50 | 15.07 | 94.57 | 999.00 | -904.43 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX N (HT40) Mode 5230 MHz |

**Horizontal**

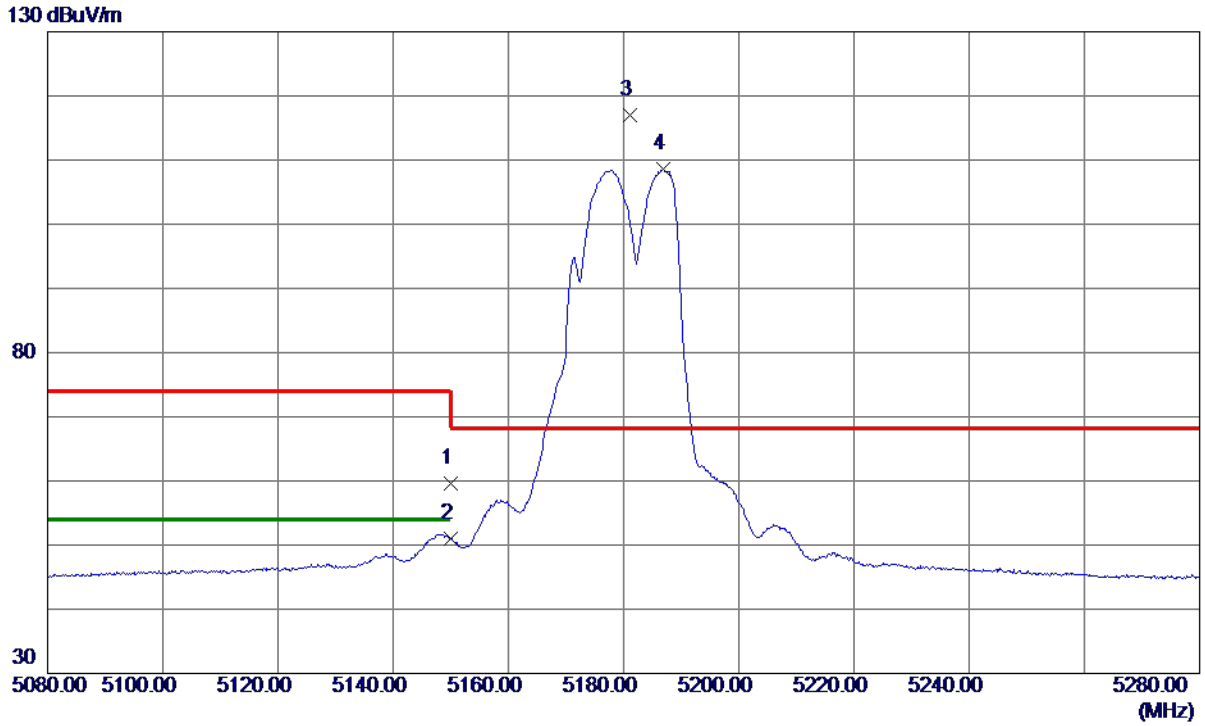



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10460.0350 | 46.31 | 8.98 | 55.29 | 68.30 | -13.01 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5180 MHz |

**Vertical**

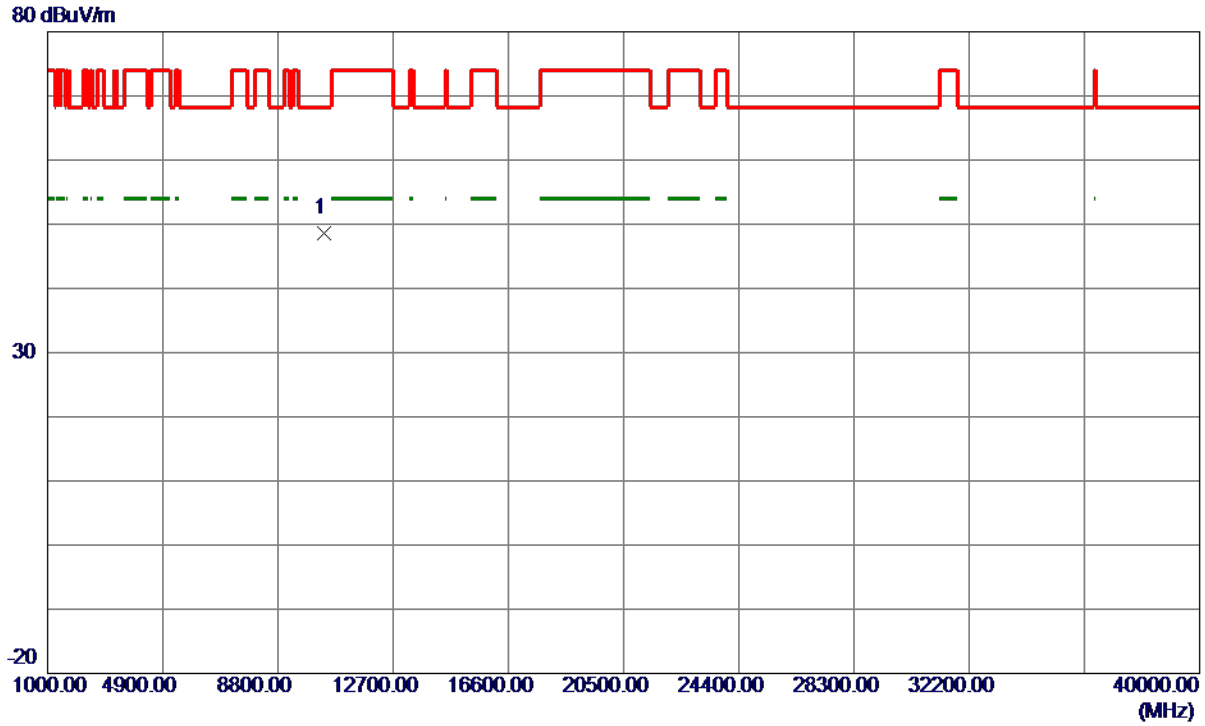



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 44.50 | 15.02 | 59.52 | 74.00 | -14.48 | Peak | |
| 2 | 5150.0000 | 36.04 | 15.02 | 51.06 | 54.00 | -2.94 | AVG | |
| 3 * | 5181.1000 | 102.05 | 15.04 | 117.09 | 68.30 | 48.79 | Peak | No Limit |
| 4 | 5186.8000 | 93.50 | 15.04 | 108.54 | 999.00 | -890.46 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5180 MHz |

**Vertical**

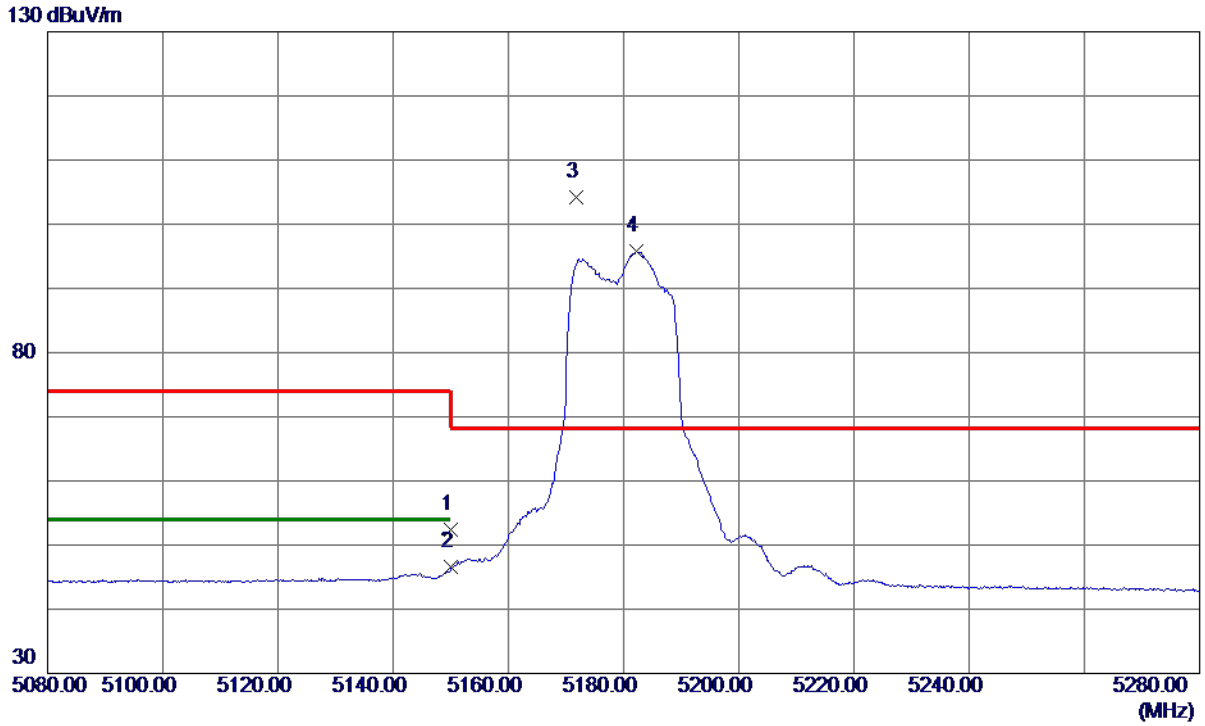



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10360.0980 | 39.86 | 8.77 | 48.63 | 68.30 | -19.67 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5180 MHz |

**Horizontal**

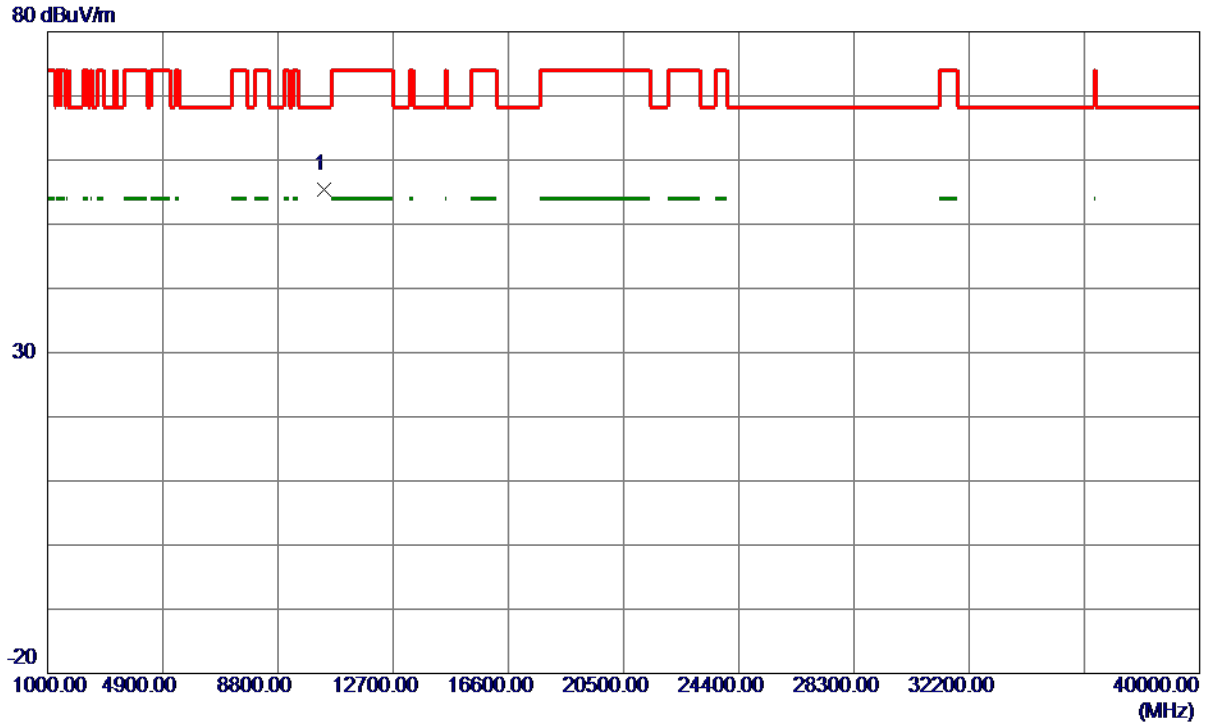



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 37.39 | 15.02 | 52.41 | 74.00 | -21.59 | Peak | |
| 2 | 5150.0000 | 31.49 | 15.02 | 46.51 | 54.00 | -7.49 | AVG | |
| 3 * | 5171.8000 | 89.25 | 15.03 | 104.28 | 68.30 | 35.98 | Peak | No Limit |
| 4 | 5182.2000 | 80.67 | 15.04 | 95.71 | 999.00 | -903.29 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5180 MHz |

**Horizontal**

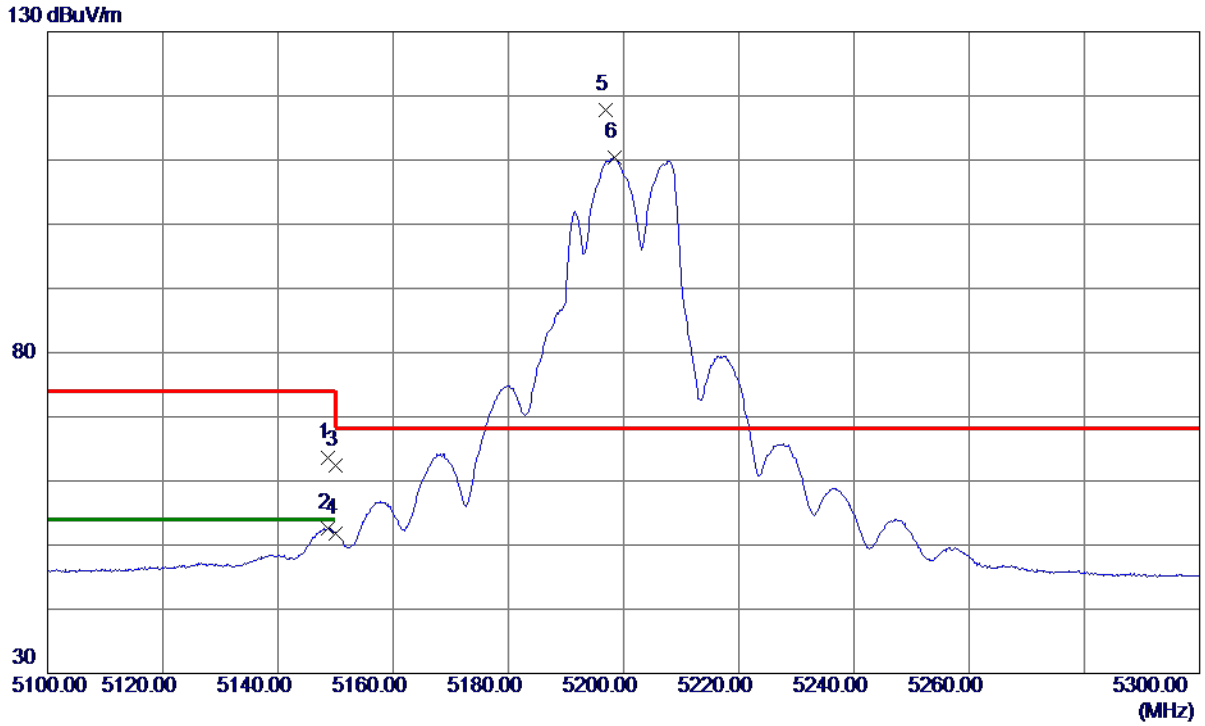



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10360.0480 | 46.63 | 8.77 | 55.40 | 68.30 | -12.90 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5200 MHz |

**Vertical**

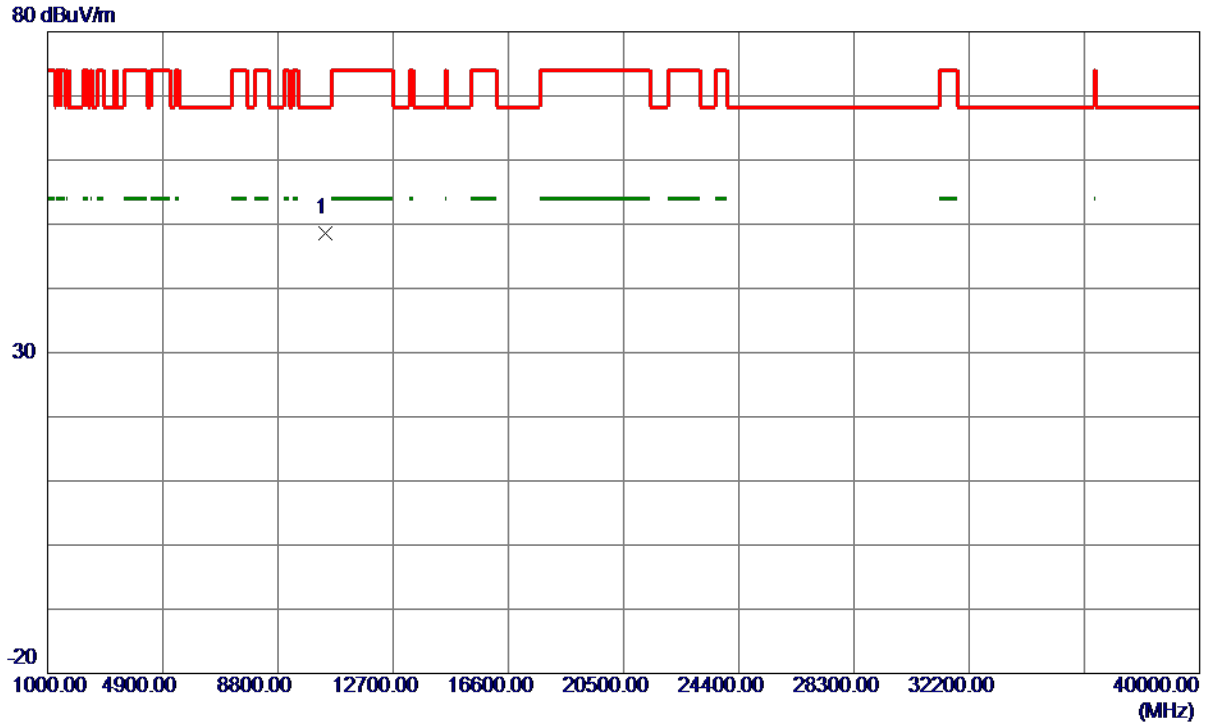



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5148.7000 | 48.66 | 15.01 | 63.67 | 74.00 | -10.33 | Peak | |
| 2 | 5148.7000 | 37.66 | 15.01 | 52.67 | 54.00 | -1.33 | AVG | |
| 3 | 5150.0000 | 47.32 | 15.02 | 62.34 | 74.00 | -11.66 | Peak | |
| 4 | 5150.0000 | 36.83 | 15.02 | 51.85 | 54.00 | -2.15 | AVG | |
| 5 * | 5196.8000 | 102.78 | 15.05 | 117.83 | 68.30 | 49.53 | Peak | No Limit |
| 6 | 5198.4000 | 95.28 | 15.05 | 110.33 | 999.00 | -888.67 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5200 MHz |

**Vertical**

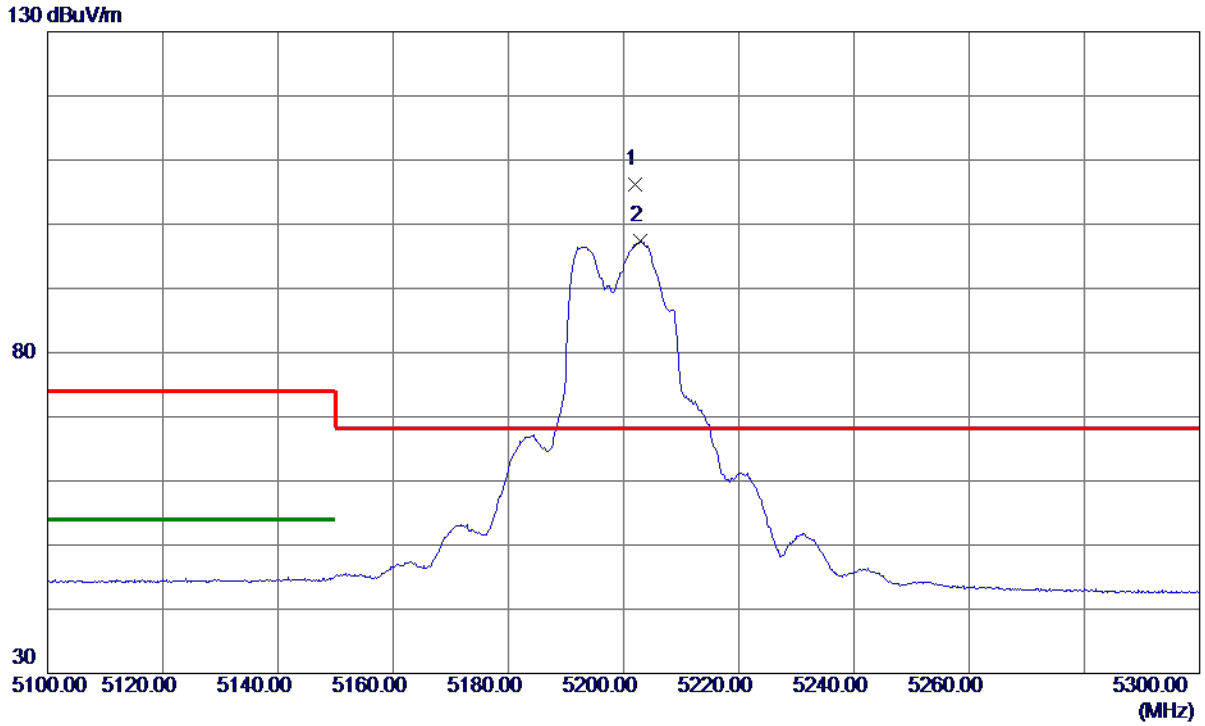



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10400.0590 | 39.70 | 8.85 | 48.55 | 68.30 | -19.75 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5200 MHz |

**Horizontal**

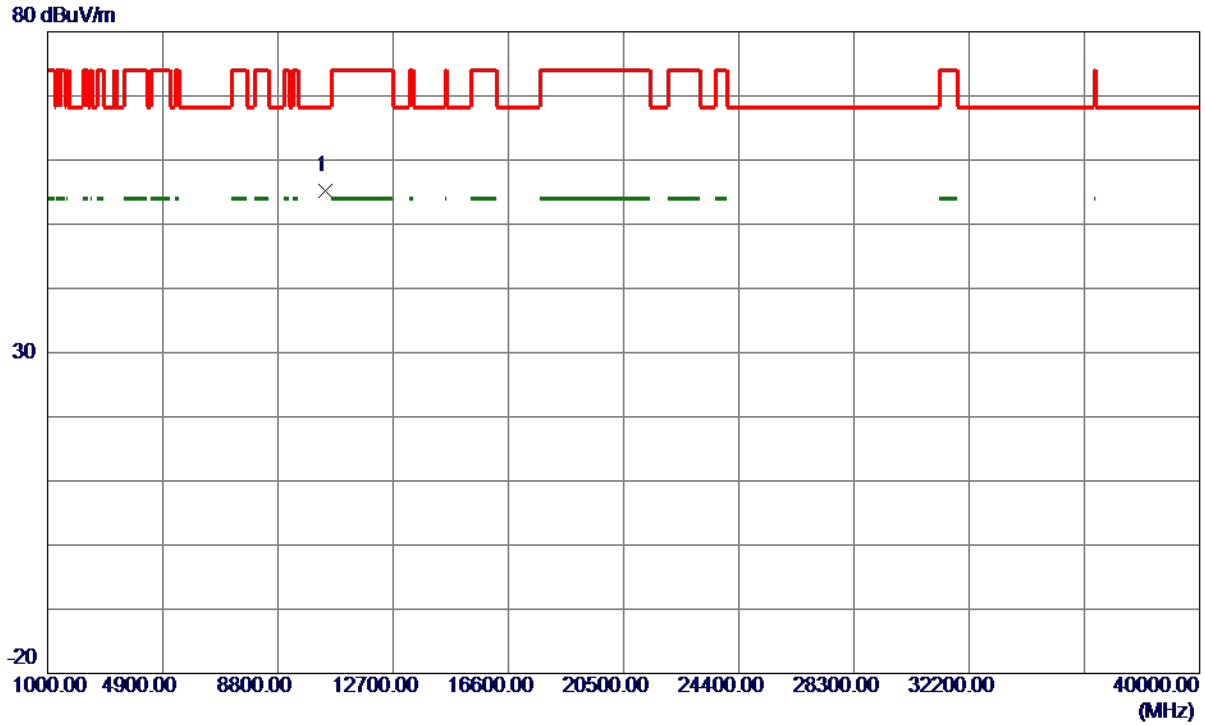



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5202.0000 | 91.23 | 15.05 | 106.28 | 68.30 | 37.98 | Peak | No Limit |
| 2 | 5202.9000 | 82.38 | 15.05 | 97.43 | 999.00 | -901.57 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5200 MHz |

**Horizontal**

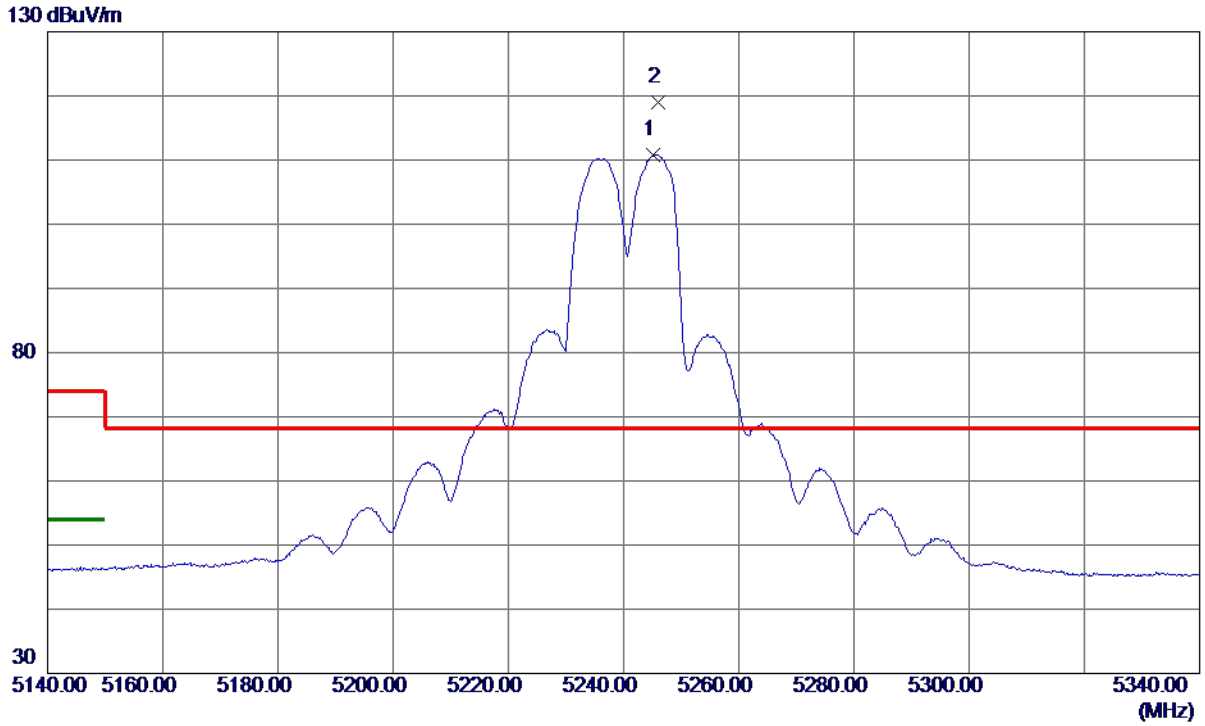



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10399.8670 | 46.28 | 8.85 | 55.13 | 68.30 | -13.17 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5240 MHz |

**Vertical**

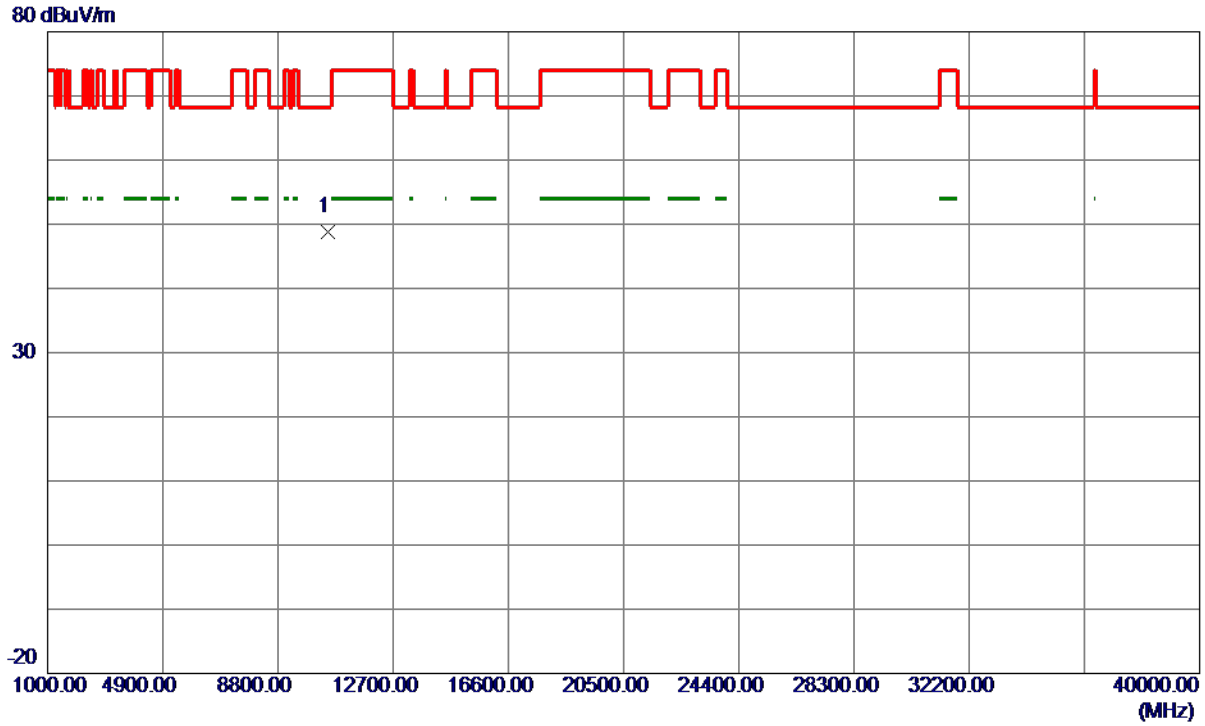



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5245.2000 | 95.80 | 15.08 | 110.88 | 999.00 | -888.12 | AVG | No Limit |
| 2 * | 5245.9000 | 103.82 | 15.08 | 118.90 | 68.30 | 50.60 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5240 MHz |

**Vertical**

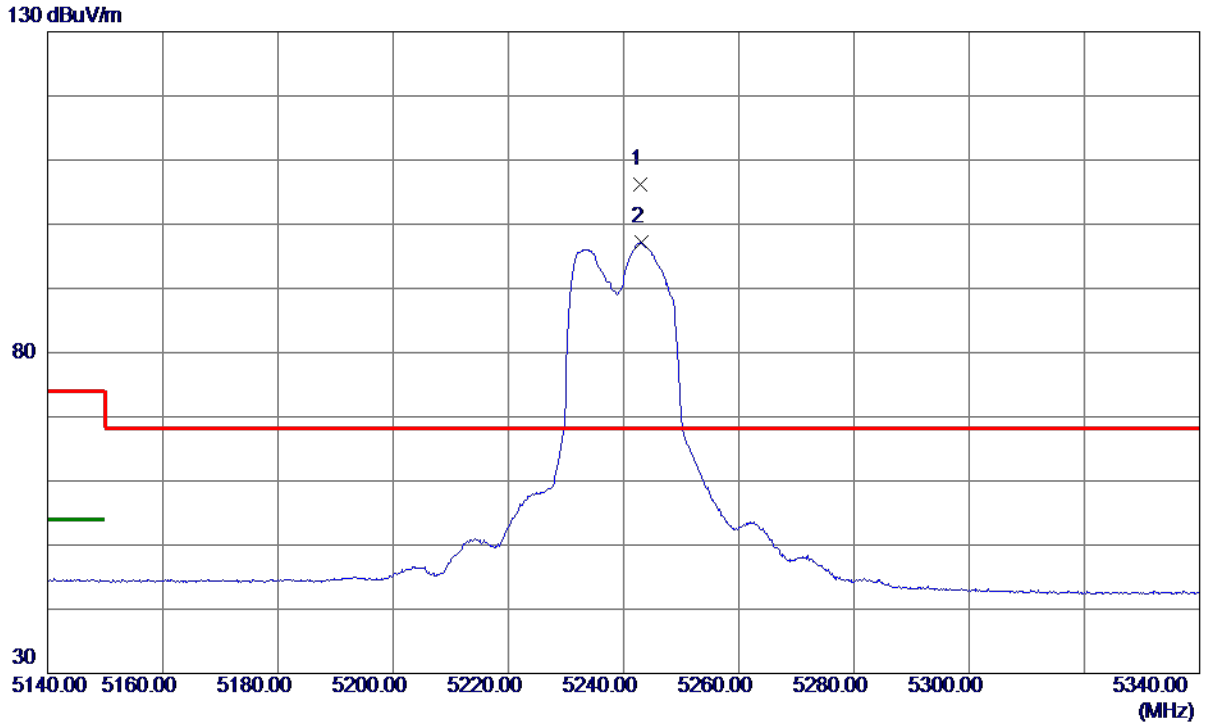



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10479.9630 | 39.77 | 9.02 | 48.79 | 68.30 | -19.51 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5240 MHz |

**Horizontal**

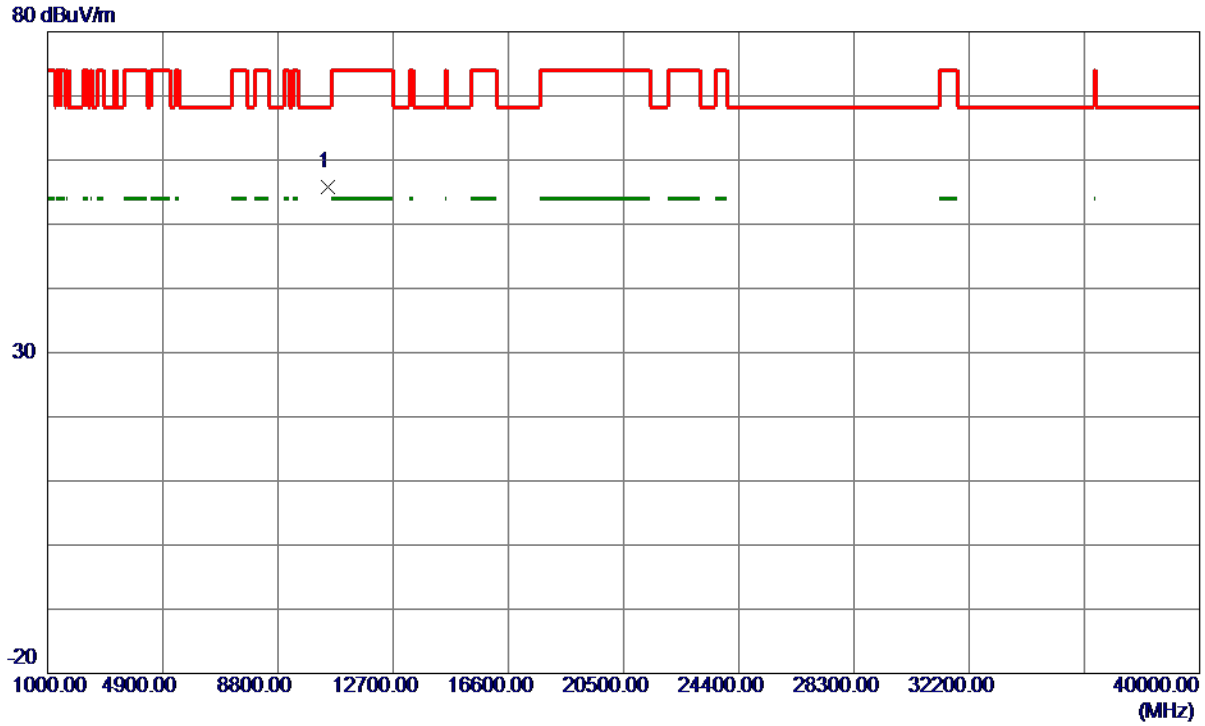



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5242.8000 | 91.21 | 15.08 | 106.29 | 68.30 | 37.99 | Peak | No Limit |
| 2 | 5243.1000 | 82.15 | 15.08 | 97.23 | 999.00 | -901.77 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT20) Mode 5240 MHz |

**Horizontal**

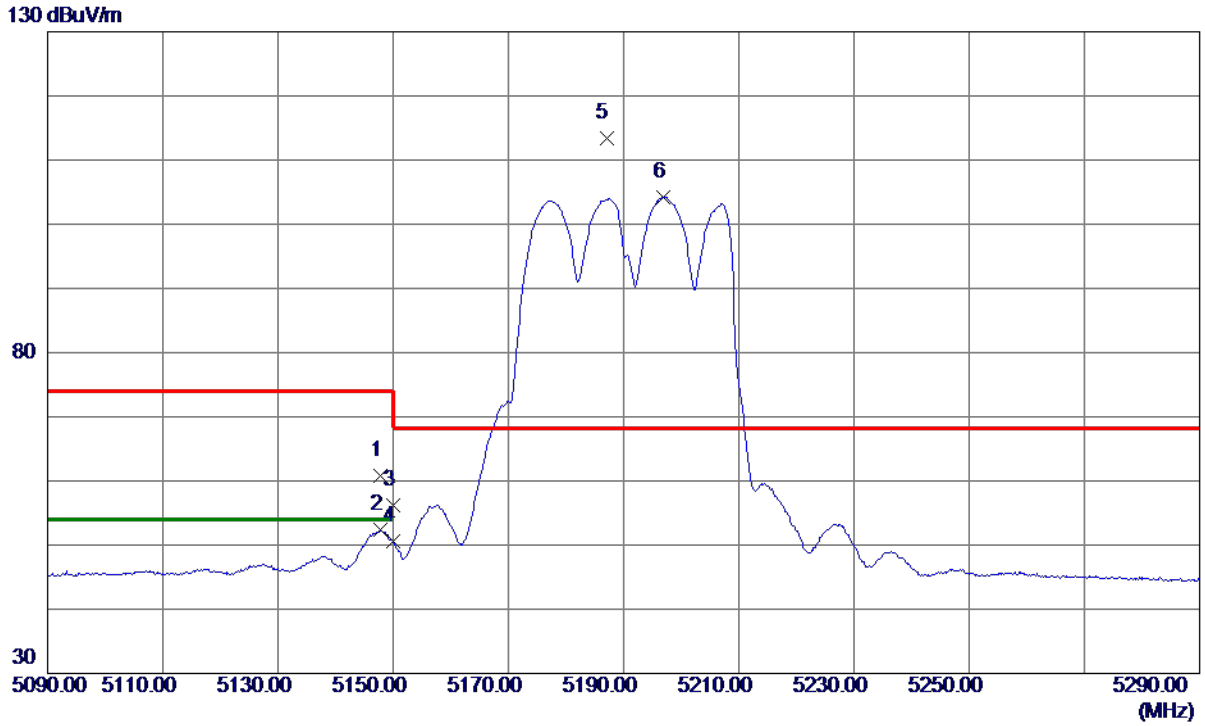



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10480.0100 | 46.71 | 9.02 | 55.73 | 68.30 | -12.57 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT40) Mode 5190 MHz |

**Vertical**

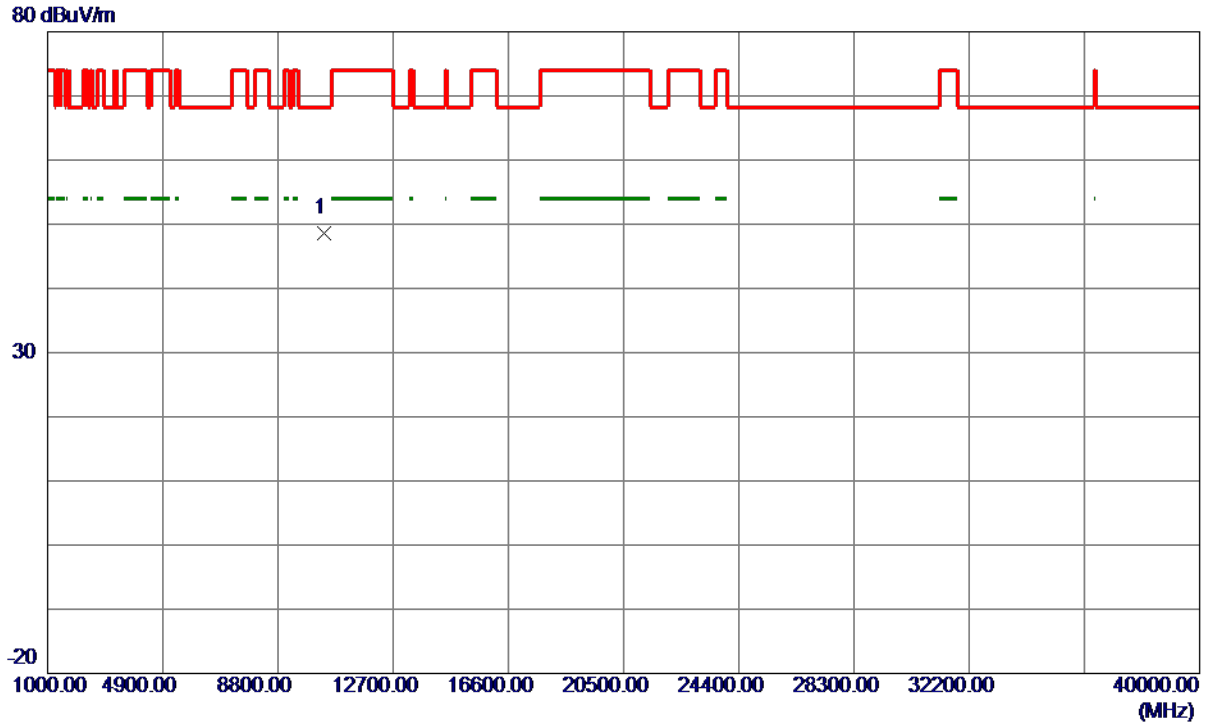



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5147.7000 | 45.81 | 15.01 | 60.82 | 74.00 | -13.18 | Peak | |
| 2 | 5147.7000 | 37.35 | 15.01 | 52.36 | 54.00 | -1.64 | AVG | |
| 3 | 5150.0000 | 41.11 | 15.02 | 56.13 | 74.00 | -17.87 | Peak | |
| 4 | 5150.0000 | 35.49 | 15.02 | 50.51 | 54.00 | -3.49 | AVG | |
| 5 * | 5187.0000 | 98.42 | 15.04 | 113.46 | 68.30 | 45.16 | Peak | No Limit |
| 6 | 5196.8000 | 89.20 | 15.05 | 104.25 | 999.00 | -894.75 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT40) Mode 5190 MHz |

**Vertical**

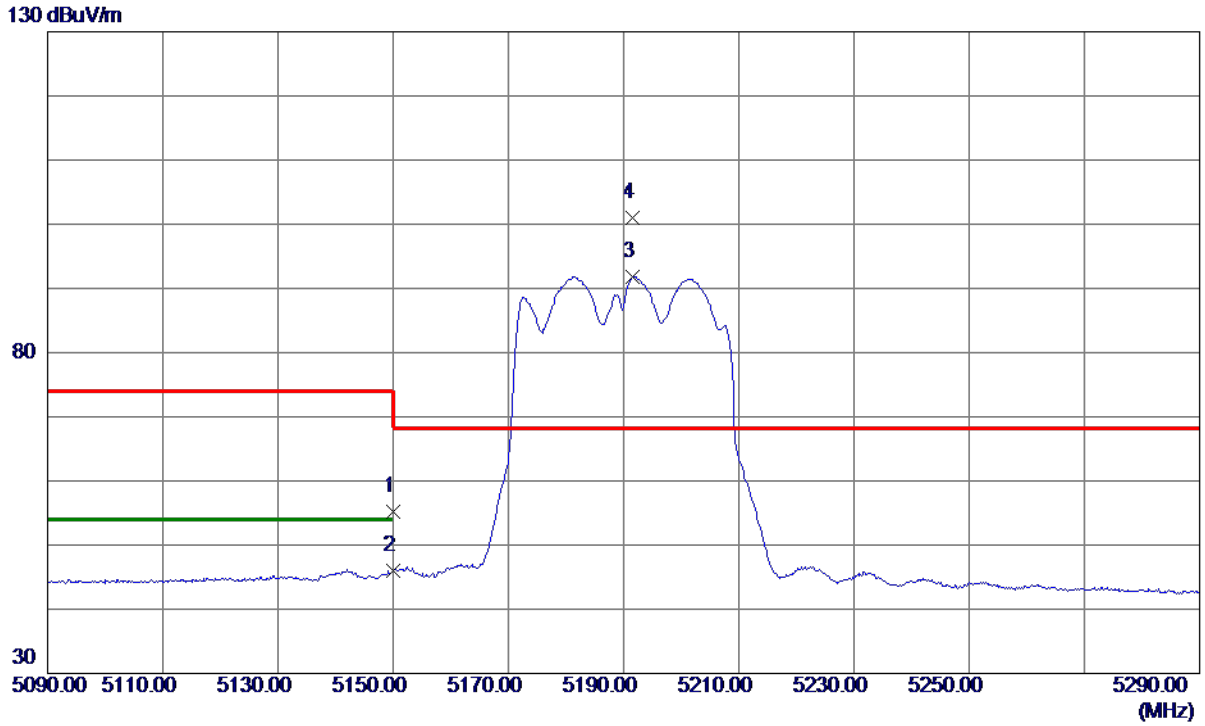



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10379.9700 | 39.86 | 8.81 | 48.67 | 68.30 | -19.63 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT40) Mode 5190 MHz |

**Horizontal**

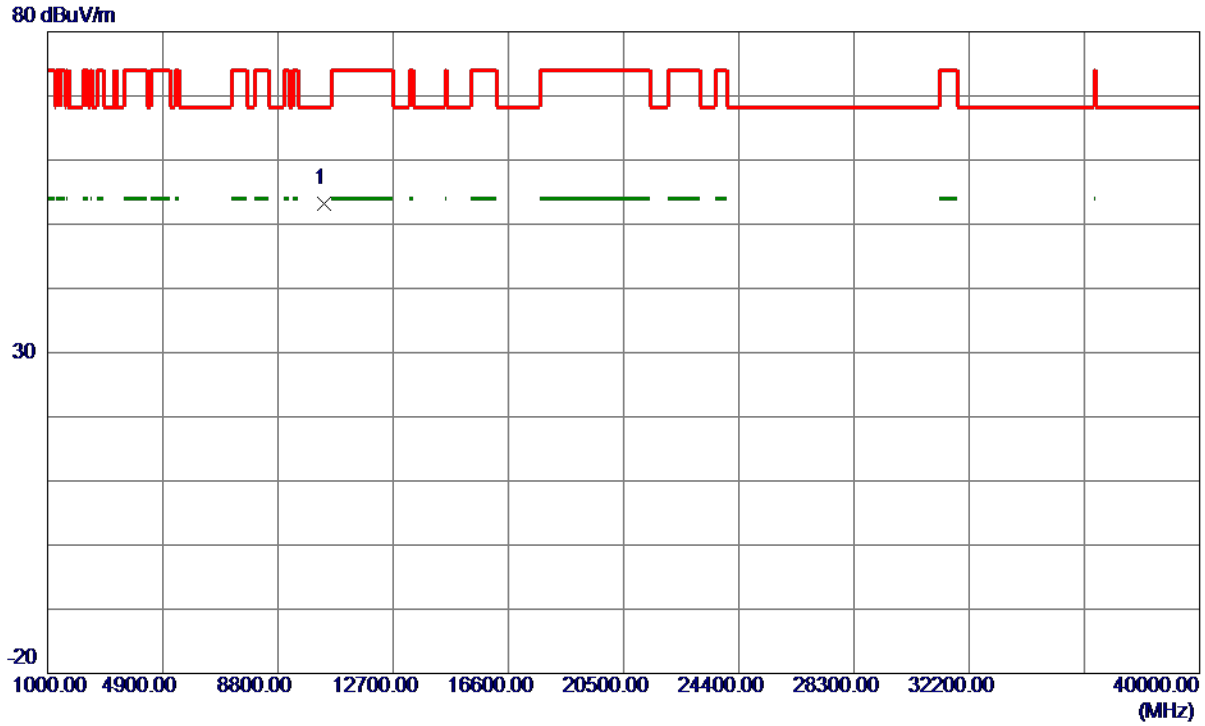



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 40.23 | 15.02 | 55.25 | 74.00 | -18.75 | Peak | |
| 2 | 5150.0000 | 30.96 | 15.02 | 45.98 | 54.00 | -8.02 | AVG | |
| 3 | 5191.5000 | 76.76 | 15.04 | 91.80 | 999.00 | -907.20 | AVG | No Limit |
| 4 * | 5191.6000 | 85.94 | 15.04 | 100.98 | 68.30 | 32.68 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT40) Mode 5190 MHz |

**Horizontal**

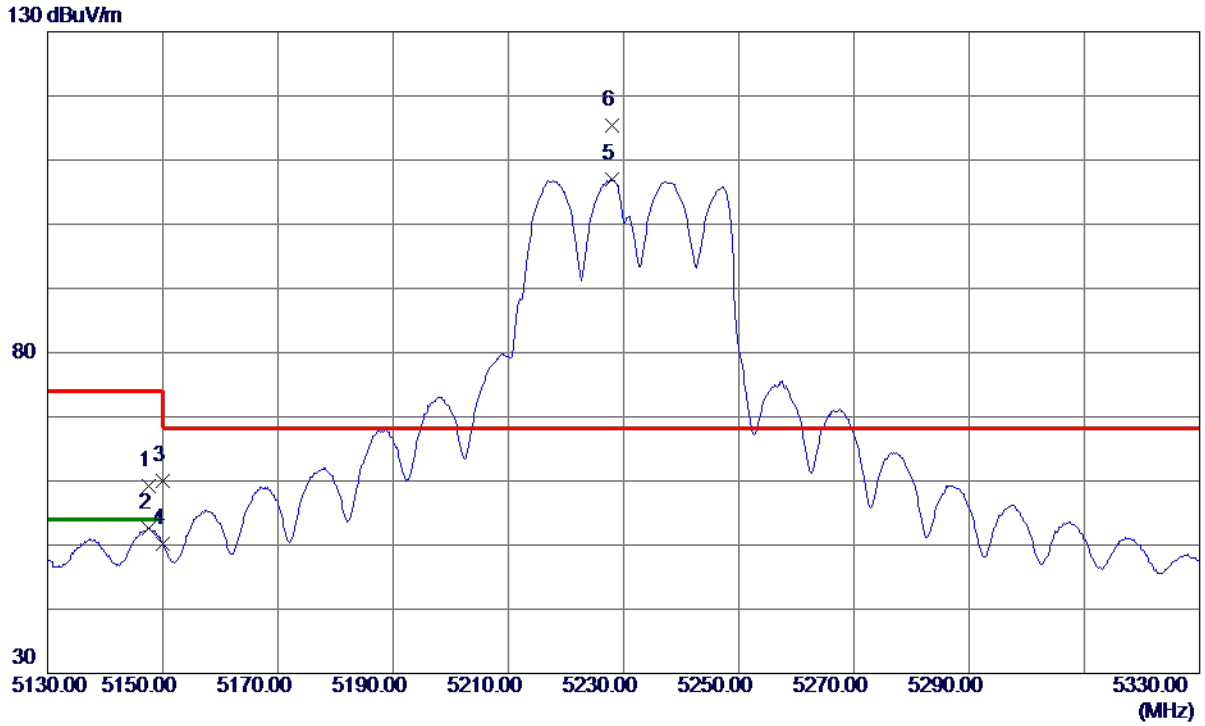



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10379.8650 | 44.36 | 8.81 | 53.17 | 68.30 | -15.13 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT40) Mode 5230 MHz |

**Vertical**

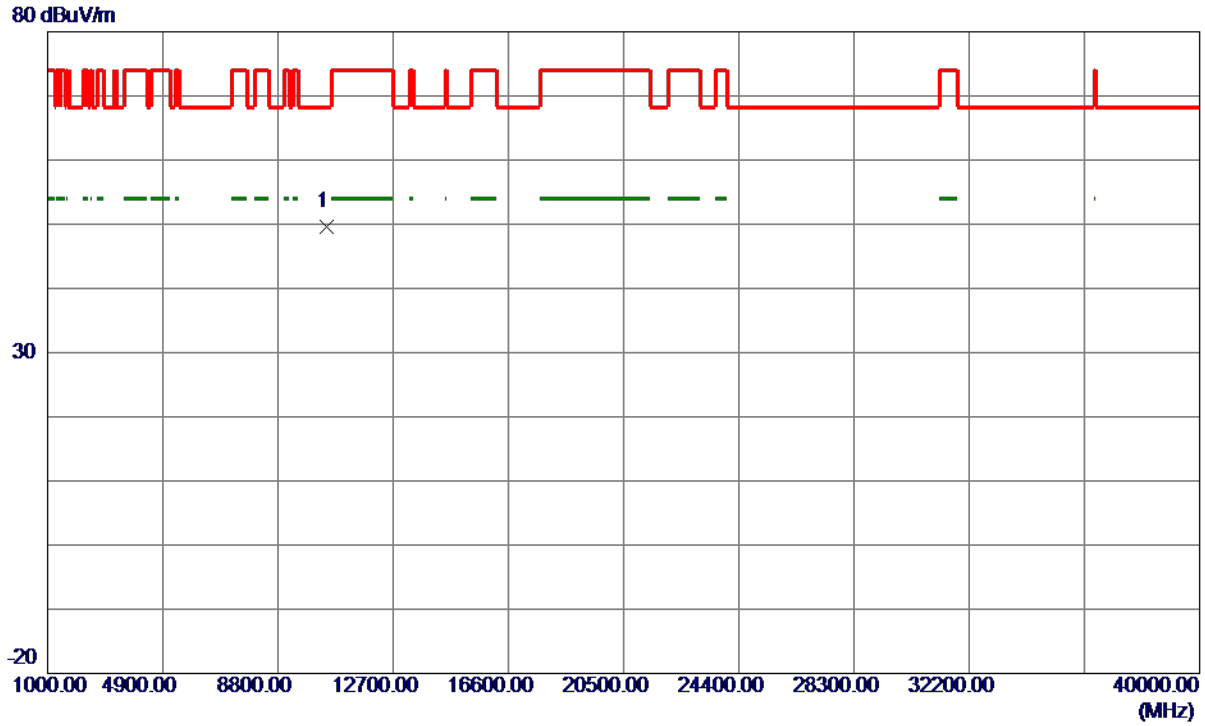



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5147.5000 | 44.12 | 15.01 | 59.13 | 74.00 | -14.87 | Peak | |
| 2 | 5147.5000 | 37.61 | 15.01 | 52.62 | 54.00 | -1.38 | AVG | |
| 3 | 5150.0000 | 45.03 | 15.02 | 60.05 | 74.00 | -13.95 | Peak | |
| 4 | 5150.0000 | 35.26 | 15.02 | 50.28 | 54.00 | -3.72 | AVG | |
| 5 | 5227.9000 | 91.87 | 15.07 | 106.94 | 999.00 | -892.06 | AVG | No Limit |
| 6 * | 5228.0000 | 100.42 | 15.07 | 115.49 | 68.30 | 47.19 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT40) Mode 5230 MHz |

**Vertical**

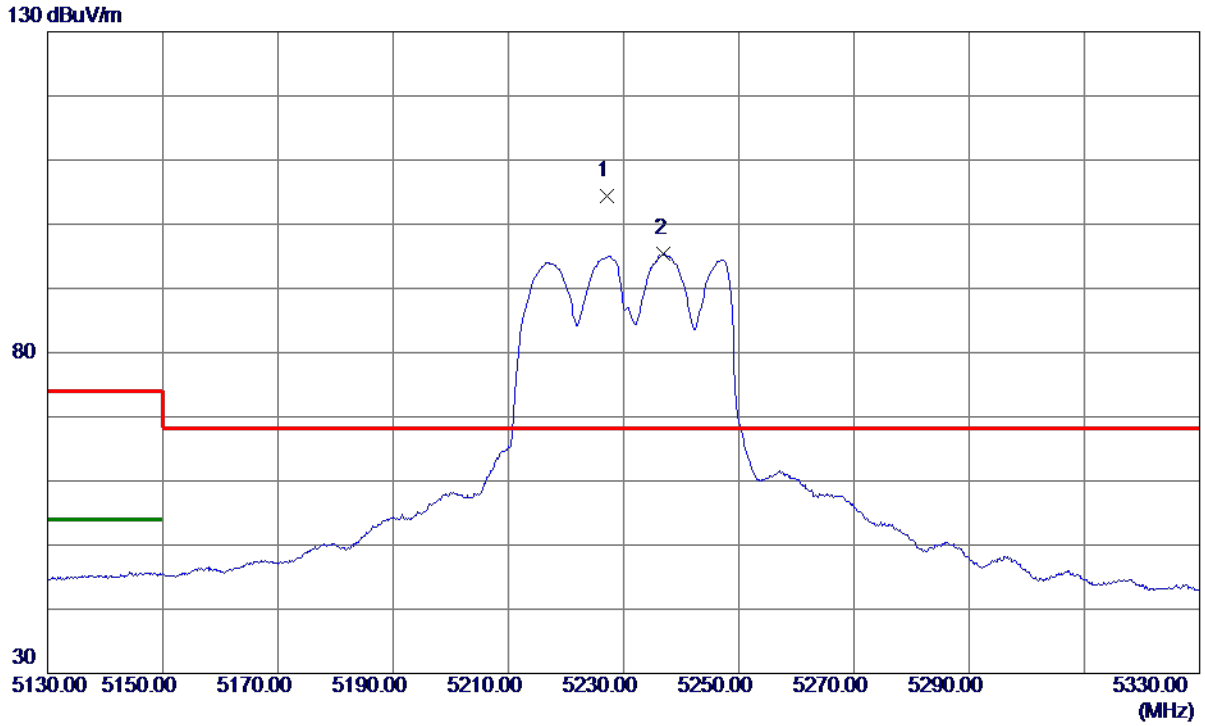



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10459.9189 | 40.55 | 8.98 | 49.53 | 68.30 | -18.77 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT40) Mode 5230 MHz |

**Horizontal**

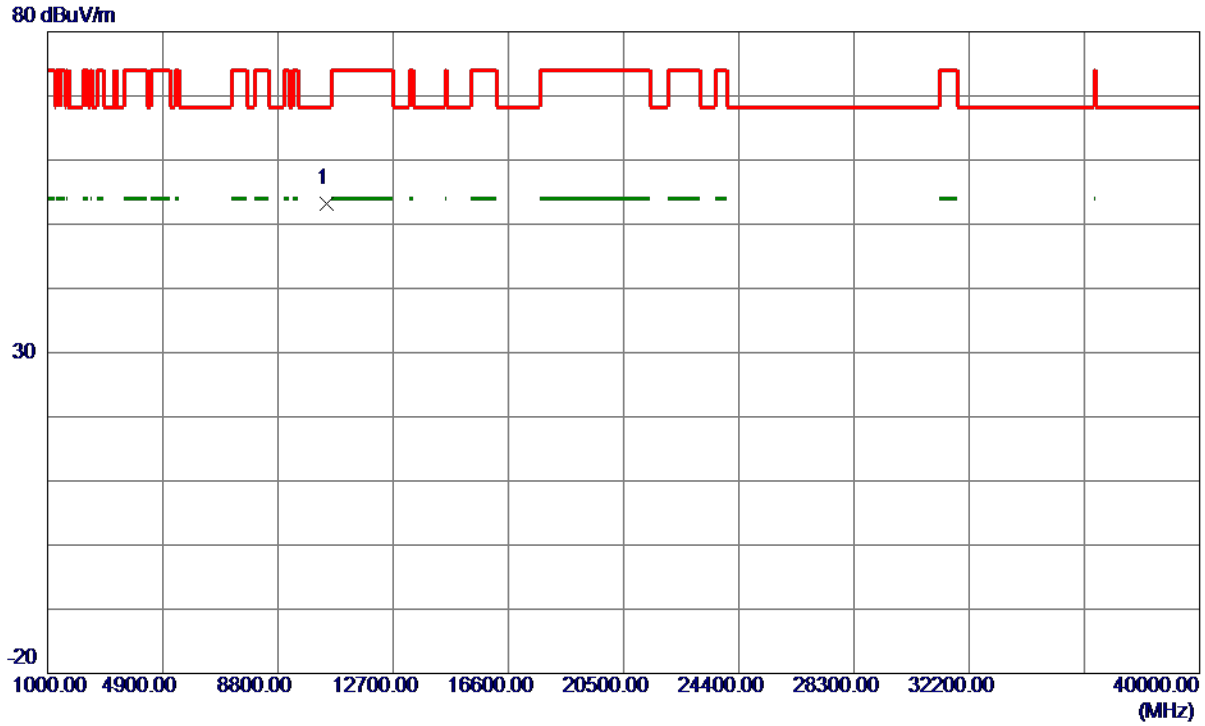



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 5227.1000 | 89.40 | 15.07 | 104.47 | 68.30 | 36.17 | Peak | No Limit |
| 2 | 5237.0000 | 80.28 | 15.08 | 95.36 | 999.00 | -903.64 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT40) Mode 5230 MHz |

**Horizontal**

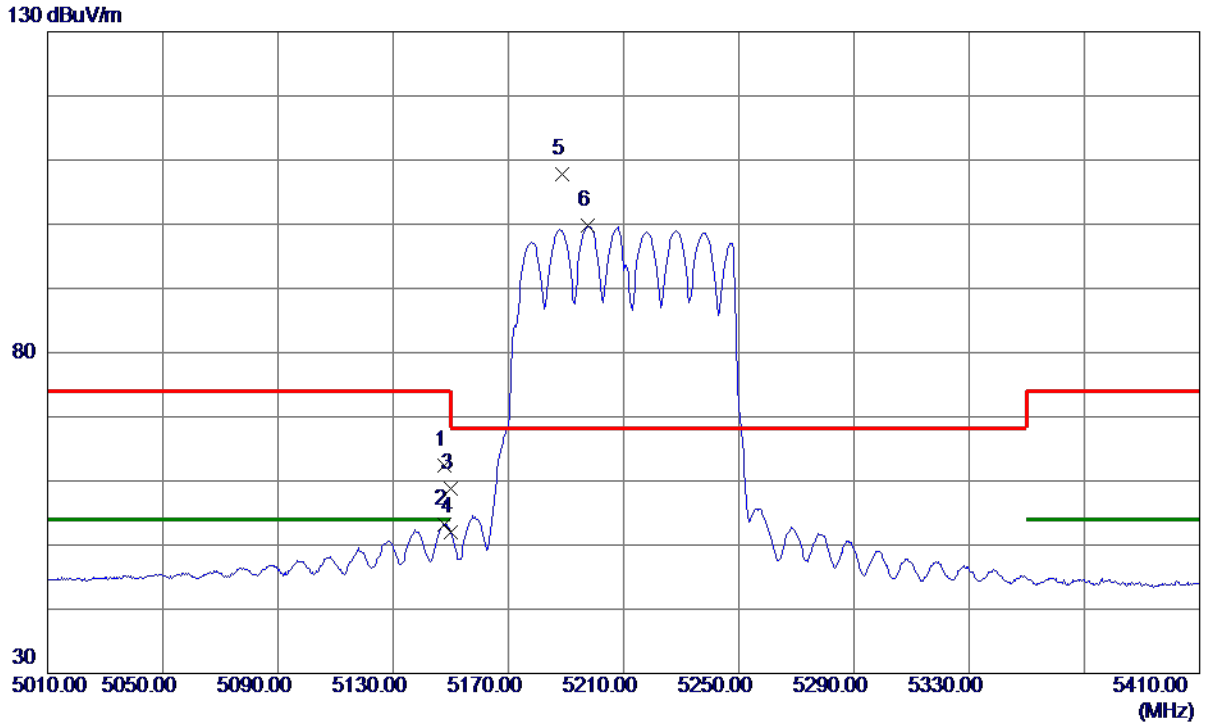



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10459.9050 | 44.18 | 8.98 | 53.16 | 68.30 | -15.14 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT80) Mode 5210 MHz |

**Vertical**

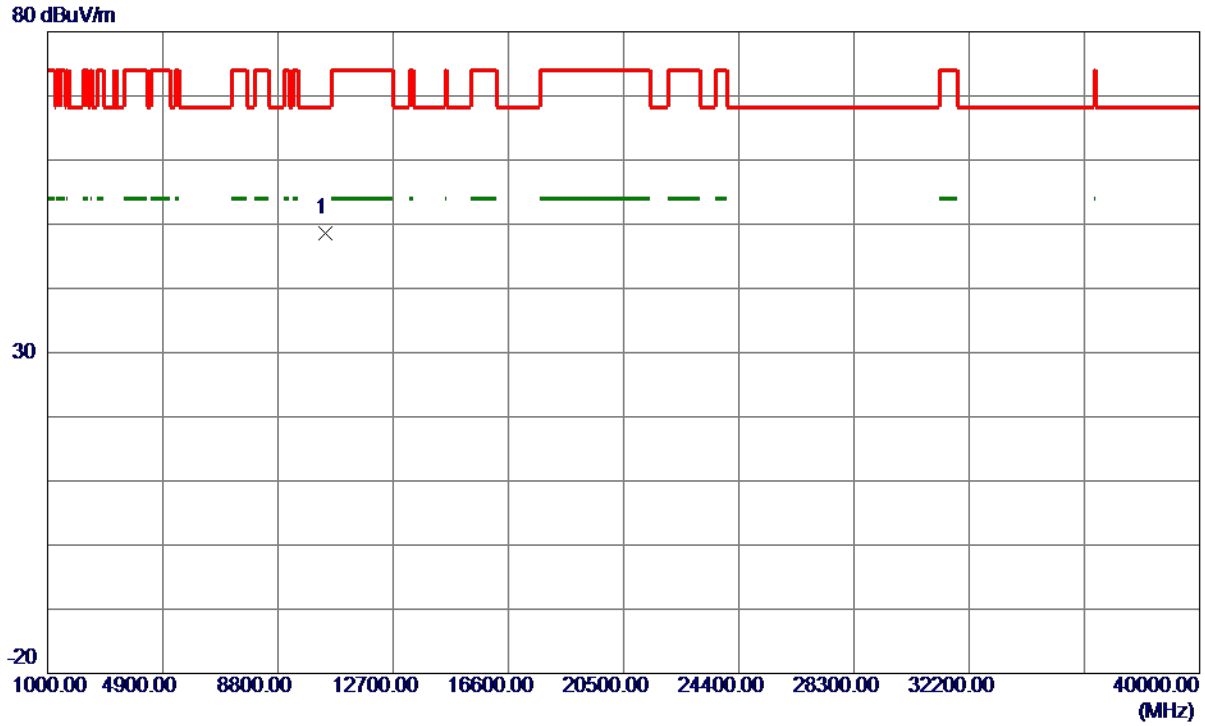



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5147.6000 | 47.34 | 15.01 | 62.35 | 74.00 | -11.65 | Peak | |
| 2 | 5147.6000 | 38.26 | 15.01 | 53.27 | 54.00 | -0.73 | AVG | |
| 3 | 5150.0000 | 43.75 | 15.02 | 58.77 | 74.00 | -15.23 | Peak | |
| 4 | 5150.0000 | 36.98 | 15.02 | 52.00 | 54.00 | -2.00 | AVG | |
| 5 * | 5188.8000 | 92.84 | 15.04 | 107.88 | 68.30 | 39.58 | Peak | No Limit |
| 6 | 5197.6000 | 84.68 | 15.05 | 99.73 | 999.00 | -899.27 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT80) Mode 5210 MHz |

**Vertical**

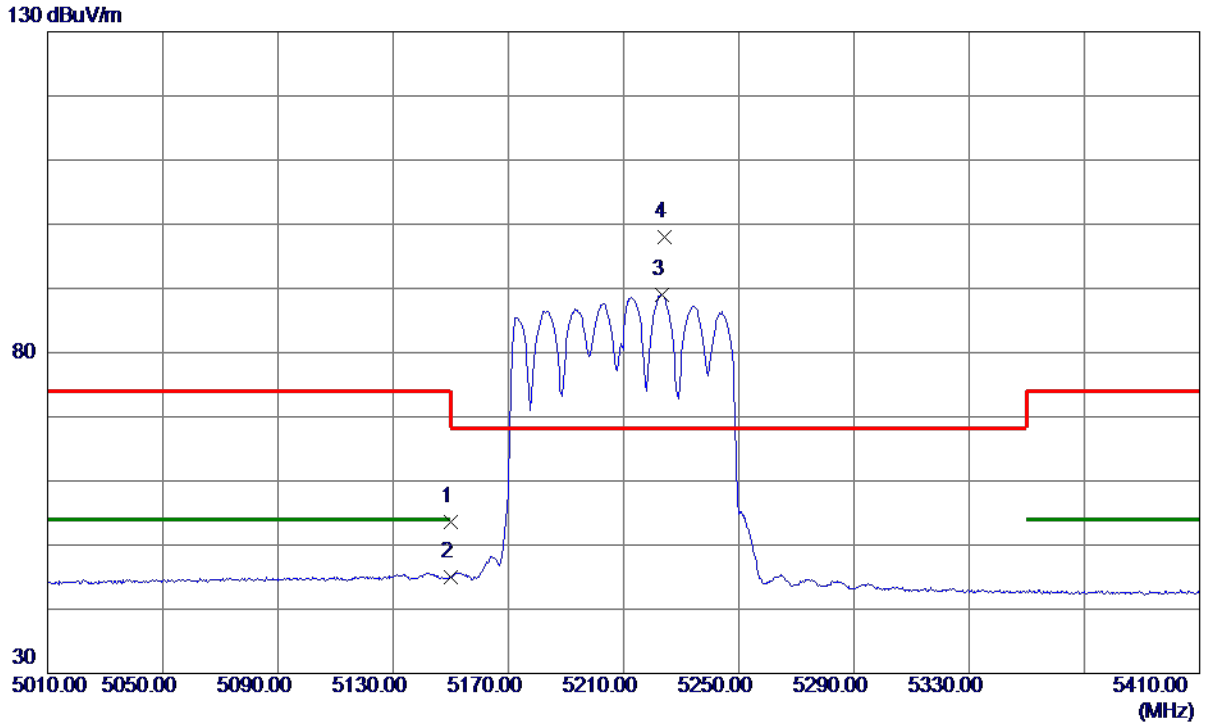



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10419.9189 | 39.72 | 8.89 | 48.61 | 68.30 | -19.69 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT80) Mode 5210 MHz |

**Horizontal**

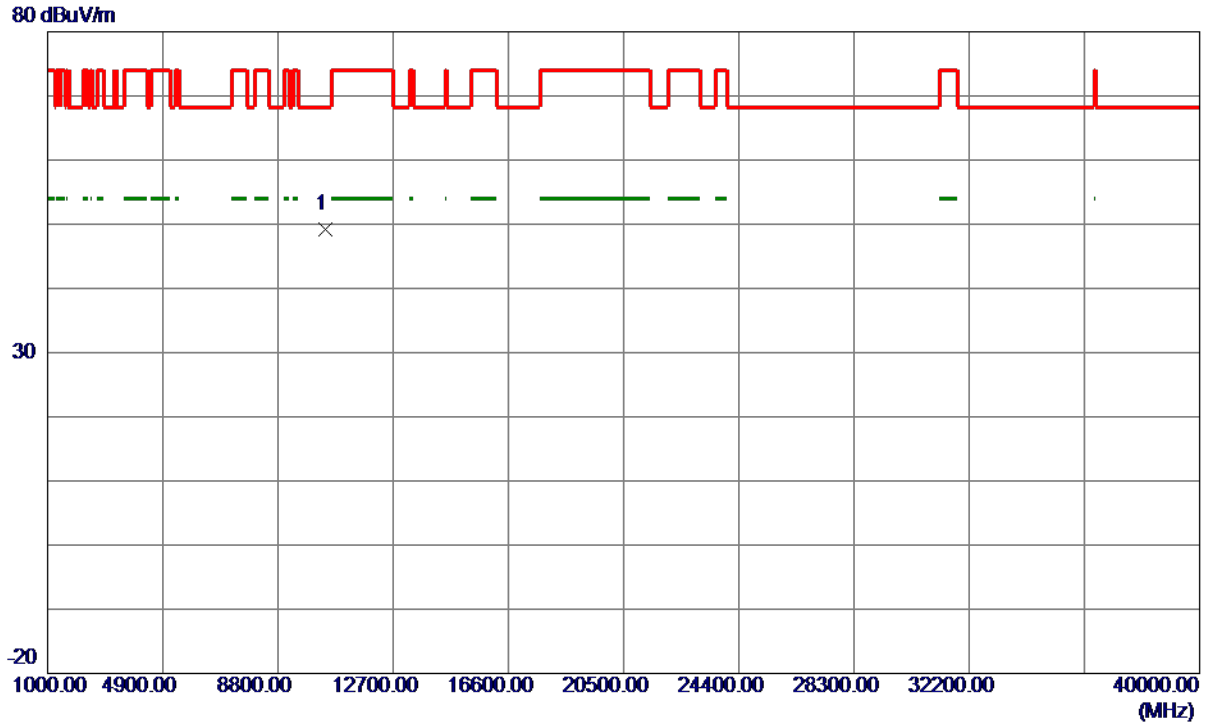



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | 5150.0000 | 38.57 | 15.02 | 53.59 | 74.00 | -20.41 | Peak | |
| 2 | 5150.0000 | 30.02 | 15.02 | 45.04 | 54.00 | -8.96 | AVG | |
| 3 | 5223.2000 | 73.92 | 15.07 | 88.99 | 999.00 | -910.01 | AVG | No Limit |
| 4 * | 5224.2000 | 83.02 | 15.07 | 98.09 | 68.30 | 29.79 | Peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AC (VHT80) Mode 5210 MHz |

**Horizontal**

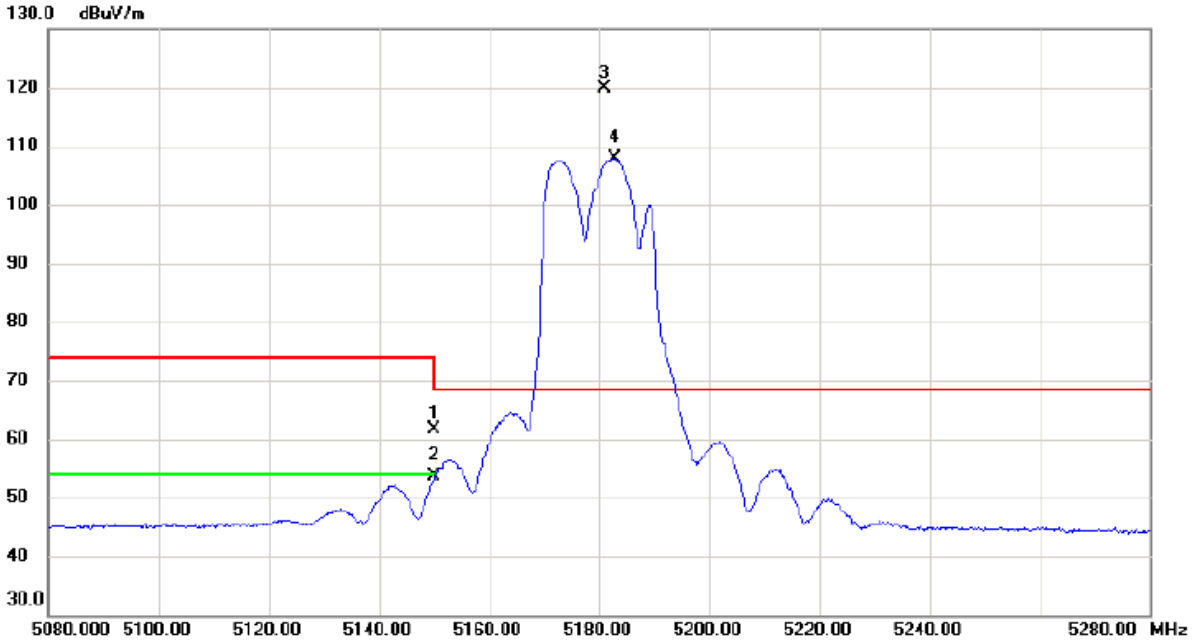



| No. | Freq. | Reading Level | Correct Factor | Measure ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 * | 10419.9189 | 40.38 | 8.89 | 49.27 | 68.30 | -19.03 | Peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5180 MHz |

**Vertical**

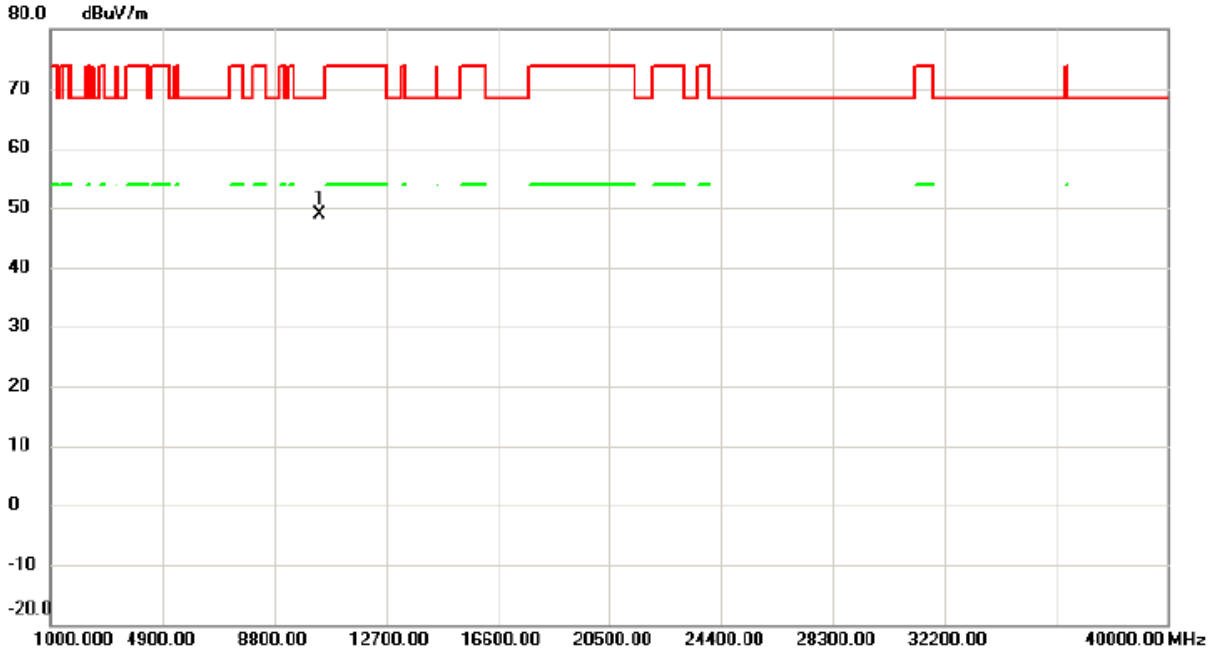



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 5150.000 | 46.60 | 15.02 | 61.62 | 74.00 | -12.38 | peak | |
| 2 | | 5150.000 | 38.51 | 15.02 | 53.53 | 54.00 | -0.47 | AVG | |
| 3 | * | 5180.900 | 104.96 | 15.04 | 120.00 | 68.30 | 51.70 | peak | No Limit |
| 4 | X | 5182.800 | 92.93 | 15.04 | 107.97 | 68.30 | 39.67 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5180 MHz |

**Vertical**

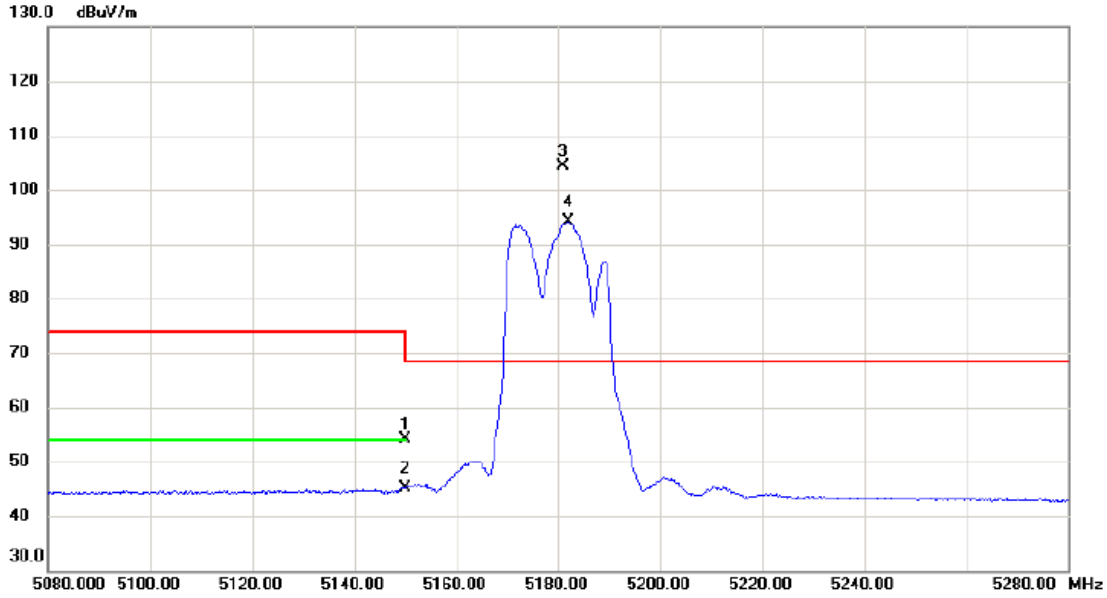



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10360.042 | 40.02 | 8.77 | 48.79 | 68.30 | -19.51 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5180 MHz |

**Horizontal**

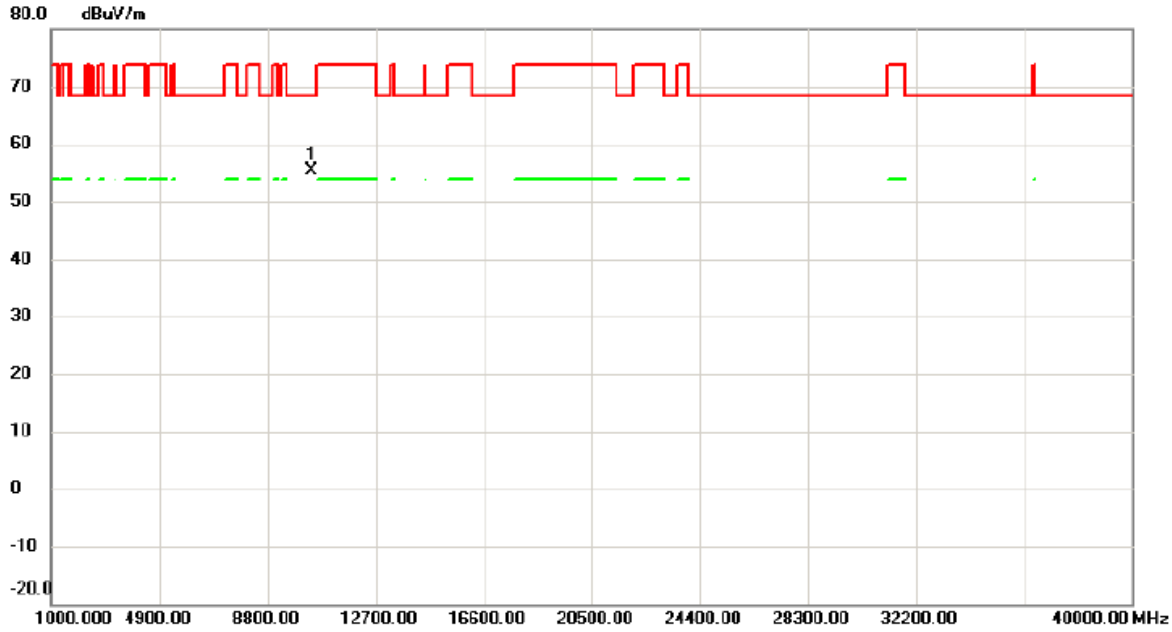



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 5150.000 | 39.03 | 15.02 | 54.05 | 74.00 | -19.95 | peak | |
| 2 | | 5150.000 | 30.19 | 15.02 | 45.21 | 54.00 | -8.79 | AVG | |
| 3 | * | 5180.900 | 89.28 | 15.04 | 104.32 | 68.30 | 36.02 | peak | No Limit |
| 4 | X | 5182.000 | 79.00 | 15.04 | 94.04 | 68.30 | 25.74 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5180 MHz |

**Horizontal**

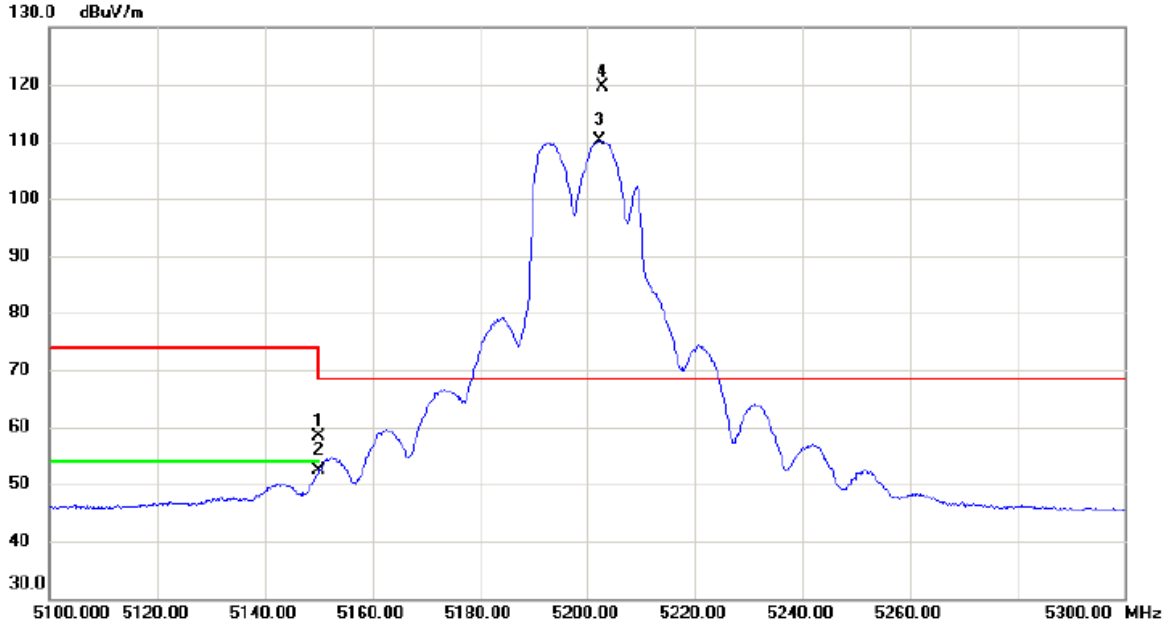



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10360.025 | 46.72 | 8.77 | 55.49 | 68.30 | -12.81 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5200 MHz |

**Vertical**

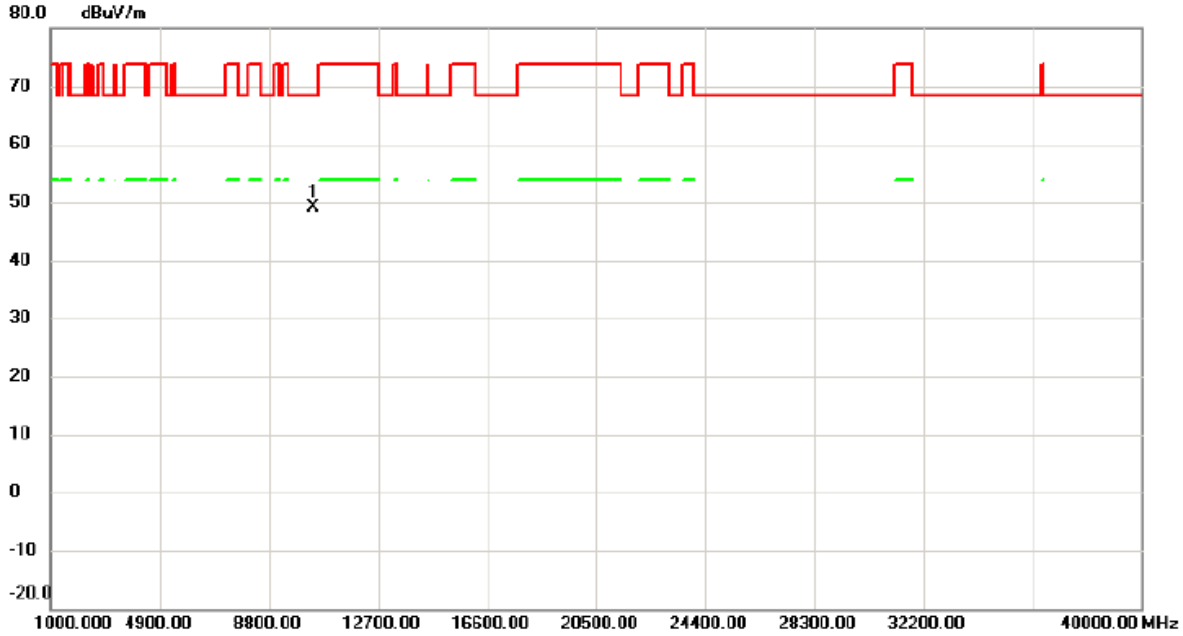



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 5150.000 | 43.40 | 15.02 | 58.42 | 74.00 | -15.58 | peak | |
| 2 | | 5150.000 | 37.34 | 15.02 | 52.36 | 54.00 | -1.64 | AVG | |
| 3 | X | 5202.400 | 95.09 | 15.05 | 110.14 | 68.30 | 41.84 | AVG | No Limit |
| 4 | * | 5202.800 | 104.56 | 15.05 | 119.61 | 68.30 | 51.31 | peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| Orthogonal Axis | X |
|---|---|
| Test Mode | UNII-1_TX AX (HEW20) Mode 5200 MHz |

**Vertical**

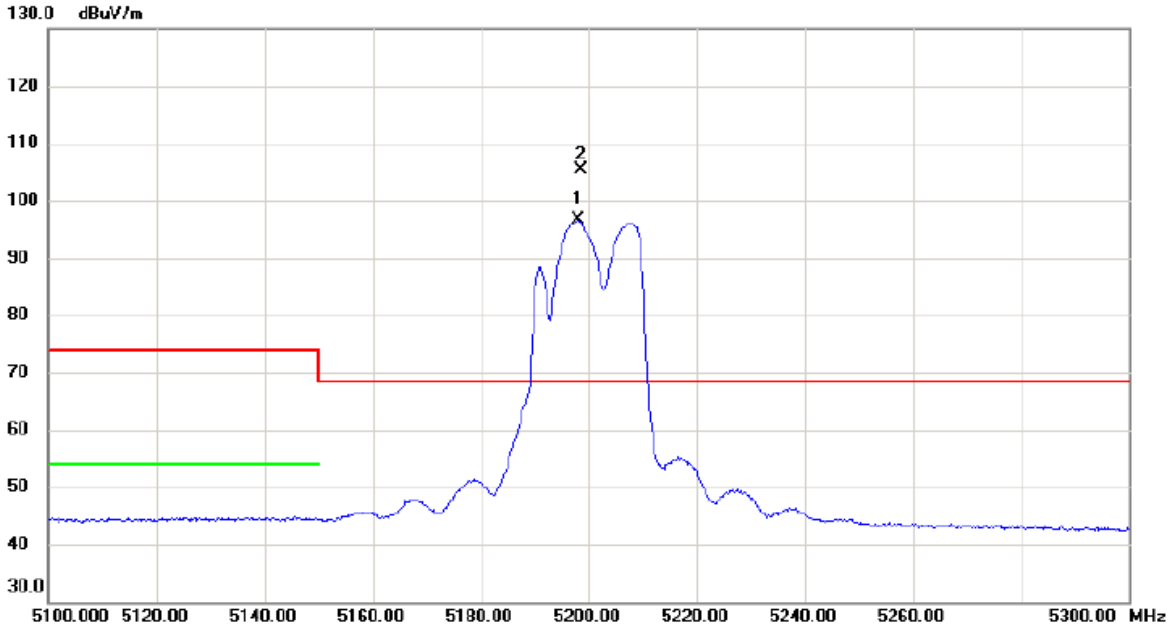



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10400.023 | 40.20 | 8.85 | 49.05 | 68.30 | -19.25 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5200 MHz |

**Horizontal**

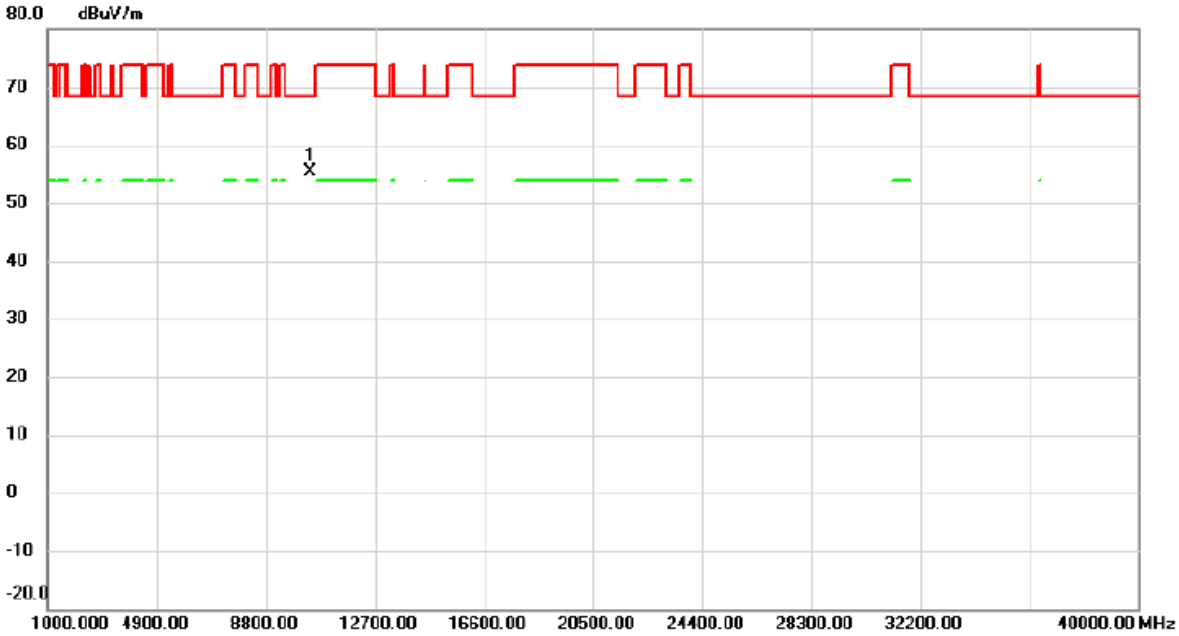



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | X | 5197.900 | 81.55 | 15.05 | 96.60 | 68.30 | 28.30 | AVG | No Limit |
| 2 | * | 5198.500 | 90.37 | 15.05 | 105.42 | 68.30 | 37.12 | peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5200 MHz |

**Horizontal**

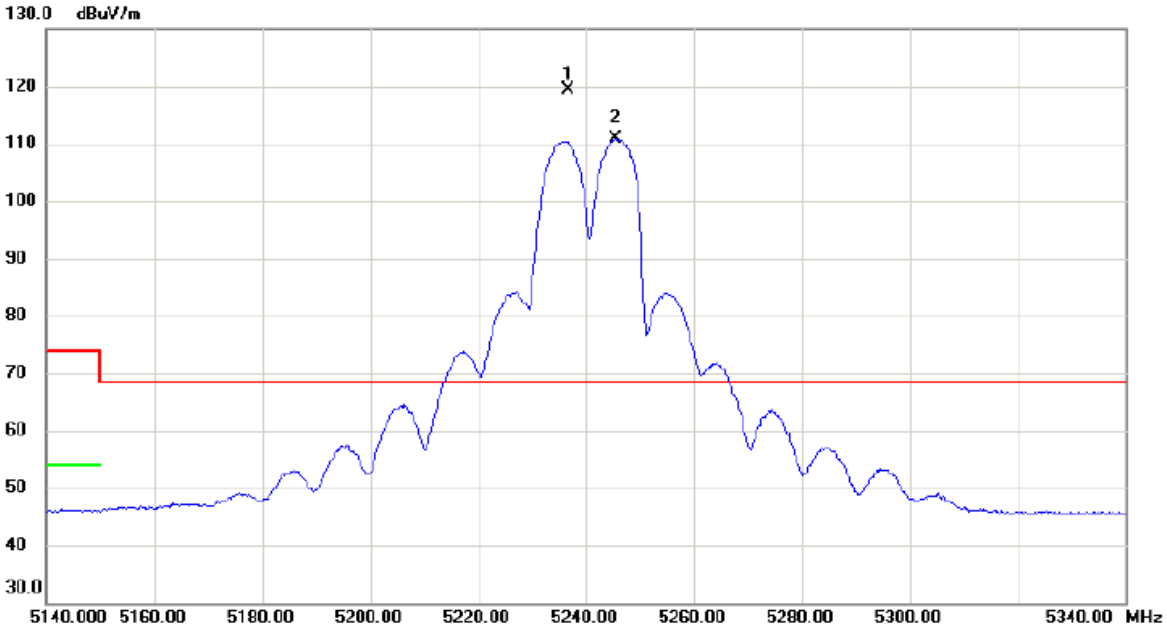



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10400.230 | 46.47 | 8.85 | 55.32 | 68.30 | -12.98 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5240 MHz |

**Vertical**

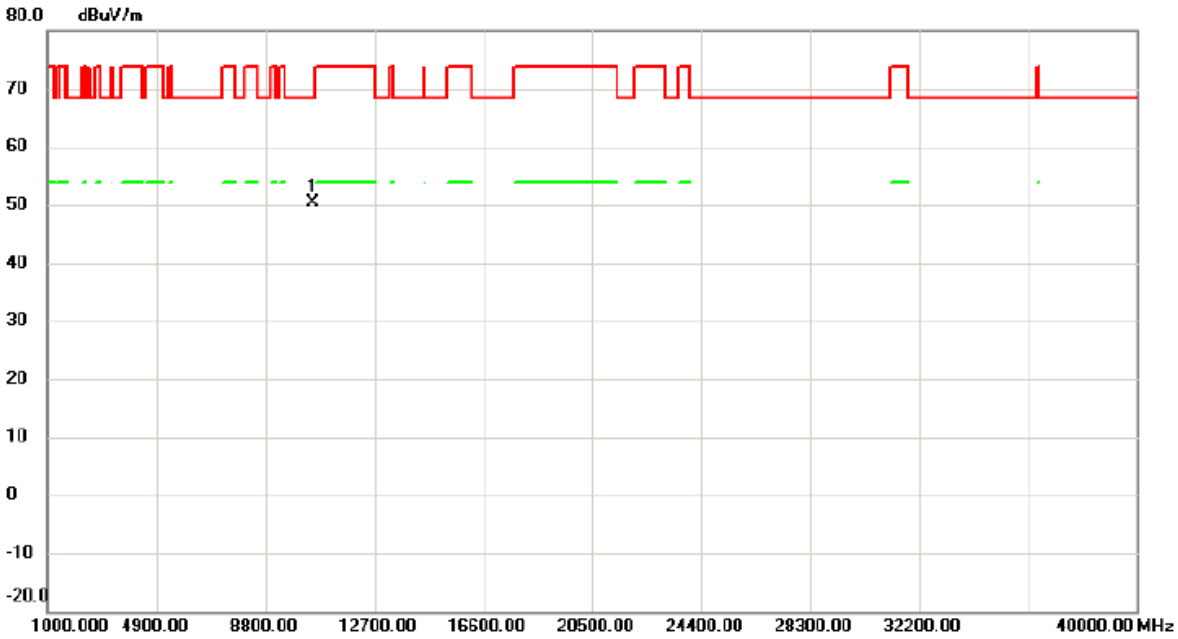



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 5236.700 | 104.34 | 15.08 | 119.42 | 68.30 | 51.12 | peak | No Limit |
| 2 | X | 5245.500 | 95.70 | 15.09 | 110.79 | 68.30 | 42.49 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5240 MHz |

**Vertical**

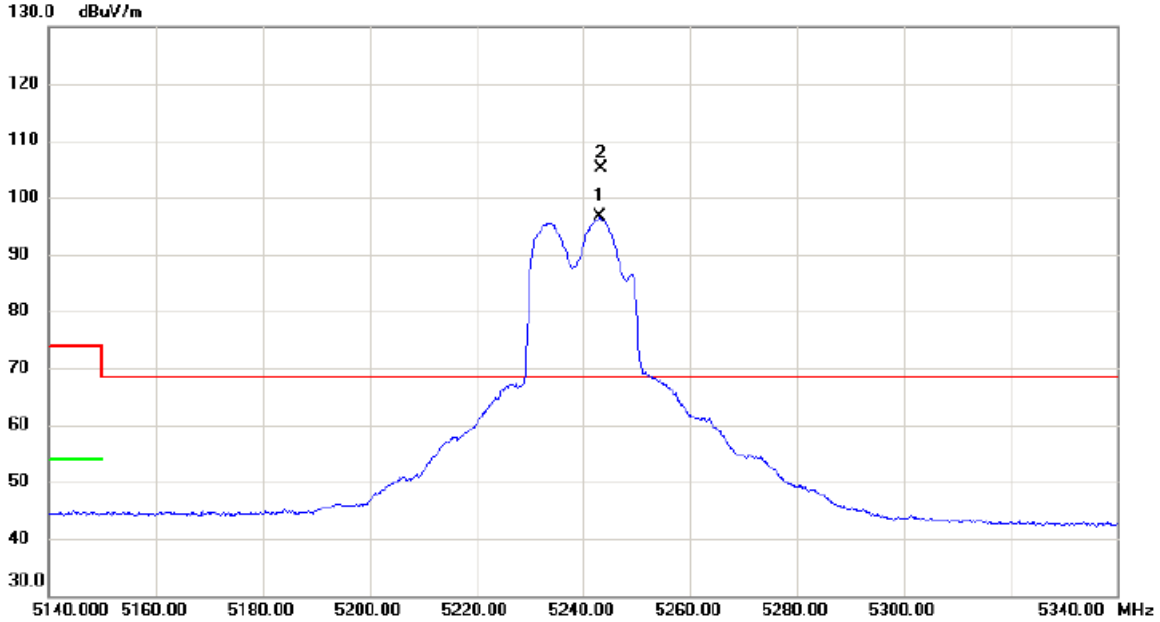



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10479.896 | 41.46 | 9.01 | 50.47 | 68.30 | -17.83 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5240 MHz |

**Horizontal**

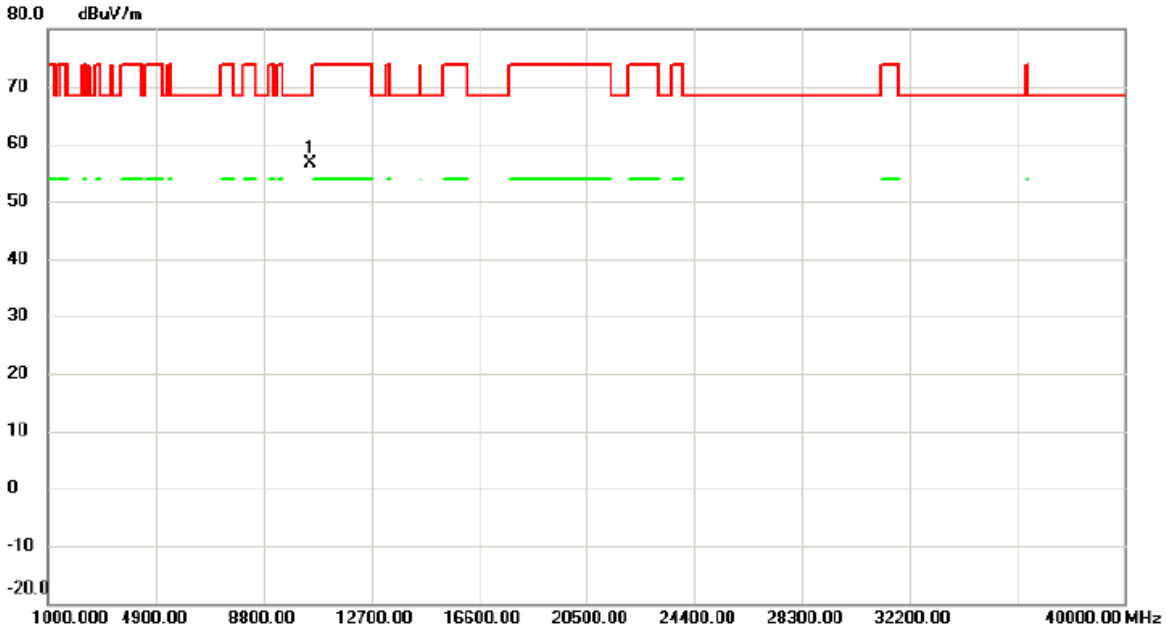



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | X | 5243.200 | 81.43 | 15.08 | 96.51 | 68.30 | 28.21 | AVG | No Limit |
| 2 | * | 5243.400 | 90.09 | 15.08 | 105.17 | 68.30 | 36.87 | peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW20) Mode 5240 MHz |

**Horizontal**

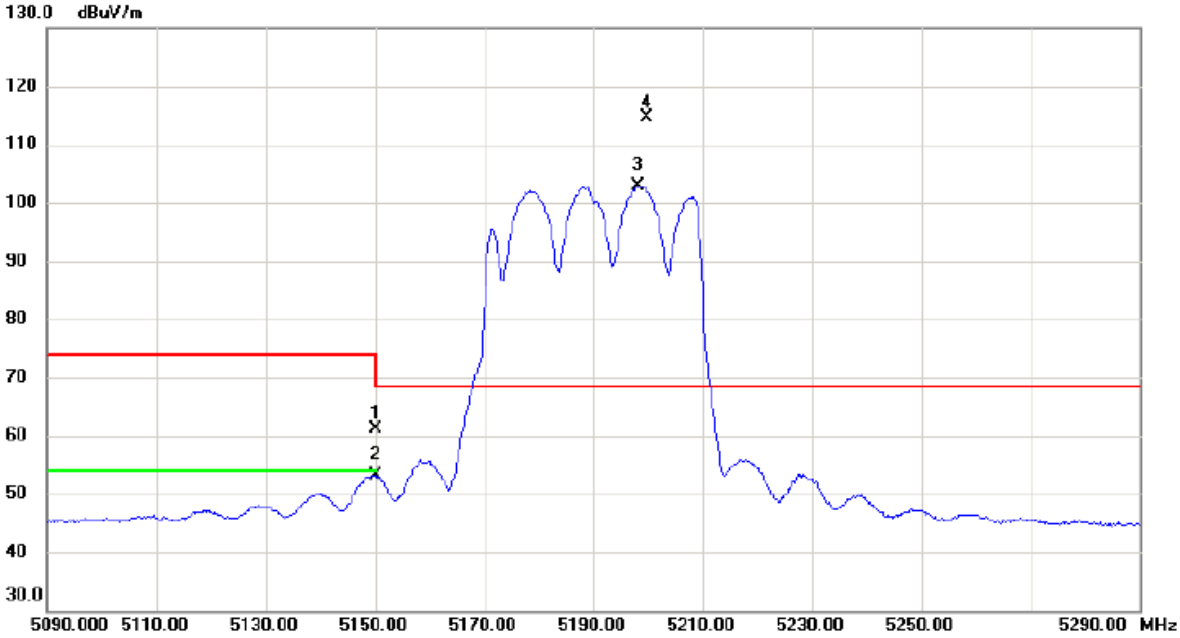



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10479.935 | 47.65 | 9.01 | 56.66 | 68.30 | -11.64 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW40) Mode 5190 MHz |

**Vertical**

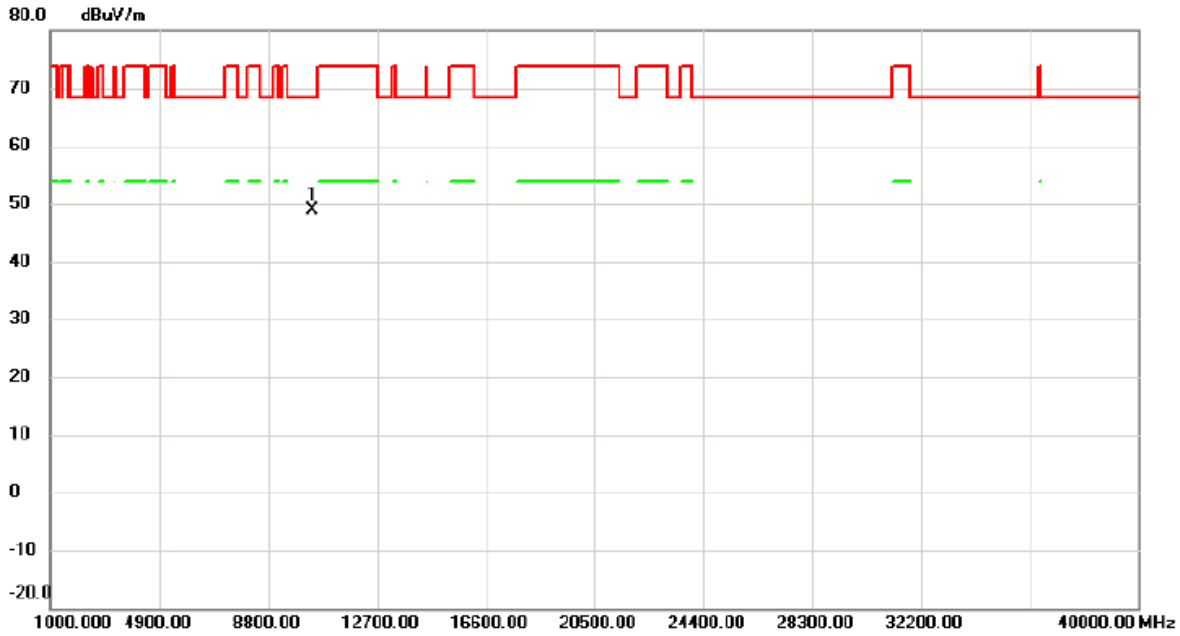



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 5150.000 | 46.08 | 15.02 | 61.10 | 74.00 | -12.90 | peak | |
| 2 | | 5150.000 | 38.09 | 15.02 | 53.11 | 54.00 | -0.89 | AVG | |
| 3 | X | 5198.000 | 87.92 | 15.05 | 102.97 | 68.30 | 34.67 | AVG | No Limit |
| 4 | * | 5199.700 | 99.46 | 15.05 | 114.51 | 68.30 | 46.21 | peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW40) Mode 5190 MHz |

**Vertical**

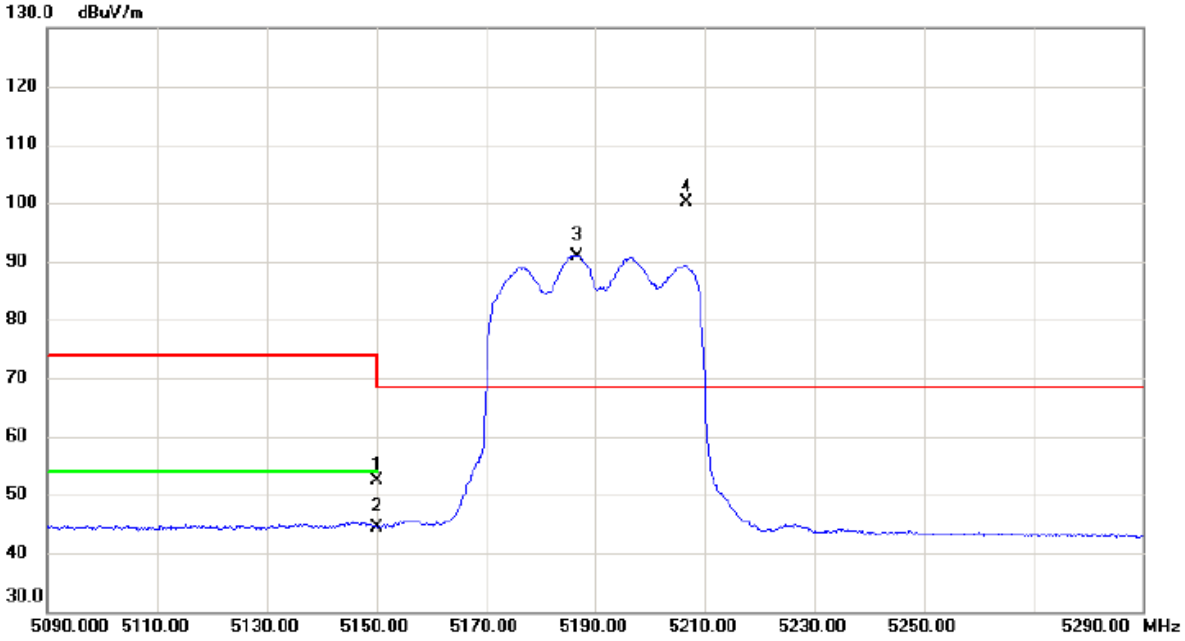



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10379.984 | 40.10 | 8.80 | 48.90 | 68.30 | -19.40 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW40) Mode 5190 MHz |

**Horizontal**

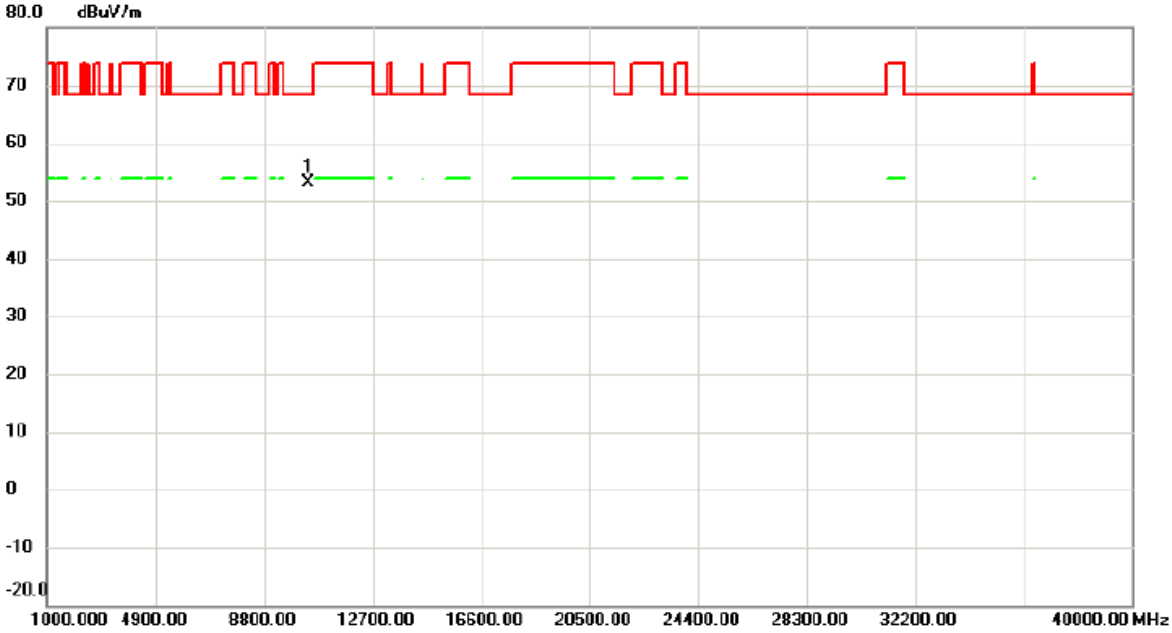



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 5150.000 | 37.37 | 15.02 | 52.39 | 74.00 | -21.61 | peak | |
| 2 | | 5150.000 | 29.33 | 15.02 | 44.35 | 54.00 | -9.65 | AVG | |
| 3 | X | 5186.600 | 75.94 | 15.04 | 90.98 | 68.30 | 22.68 | AVG | No Limit |
| 4 | * | 5206.700 | 85.12 | 15.05 | 100.17 | 68.30 | 31.87 | peak | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW40) Mode 5190 MHz |

**Horizontal**

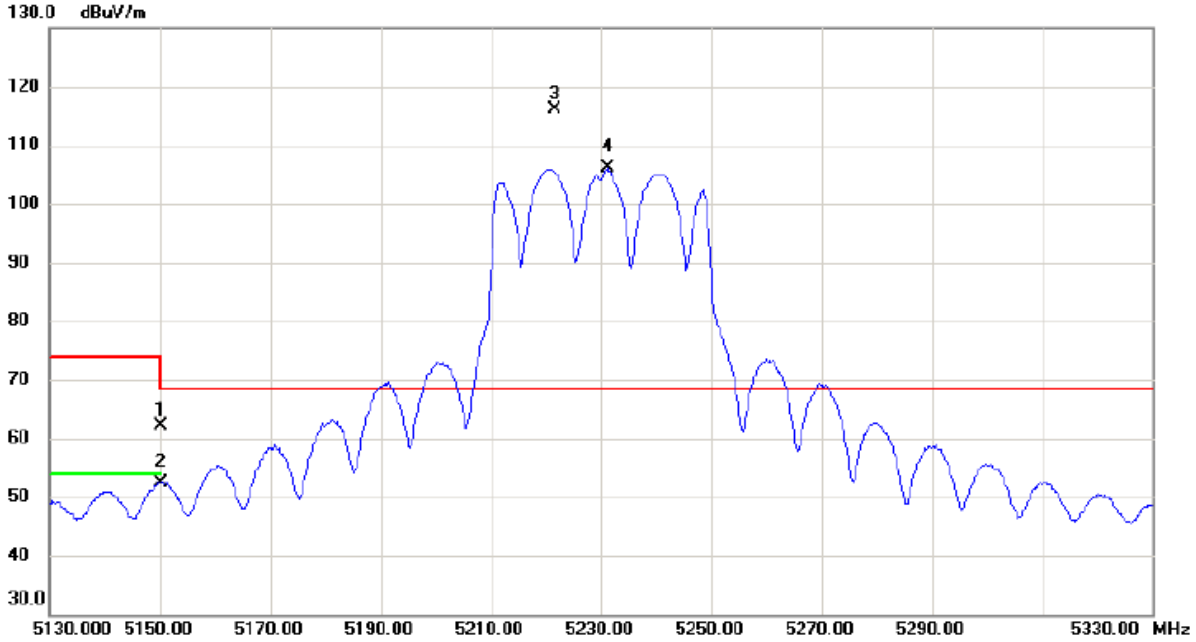



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10379.939 | 44.37 | 8.80 | 53.17 | 68.30 | -15.13 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW40) Mode 5230 MHz |

**Vertical**

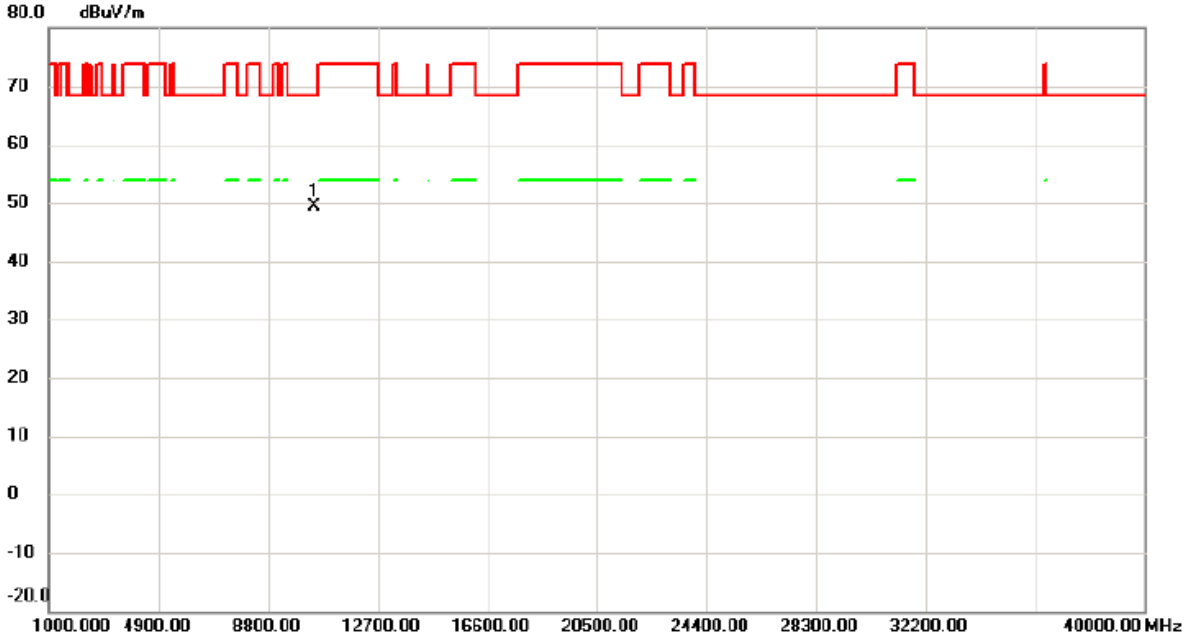



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 5150.000 | 47.09 | 15.02 | 62.11 | 74.00 | -11.89 | peak | |
| 2 | | 5150.000 | 37.31 | 15.02 | 52.33 | 54.00 | -1.67 | AVG | |
| 3 | * | 5221.600 | 101.02 | 15.06 | 116.08 | 68.30 | 47.78 | peak | No Limit |
| 4 | X | 5231.100 | 91.00 | 15.07 | 106.07 | 68.30 | 37.77 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW40) Mode 5230 MHz |

**Vertical**

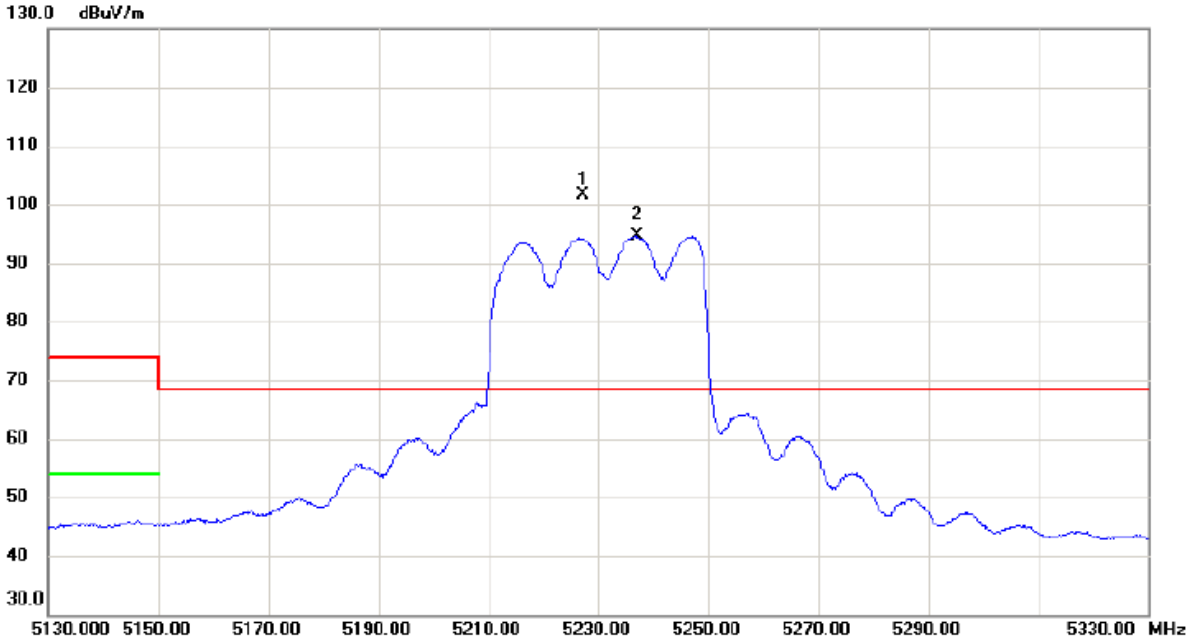



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10460.031 | 40.49 | 8.98 | 49.47 | 68.30 | -18.83 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW40) Mode 5230 MHz |

**Horizontal**

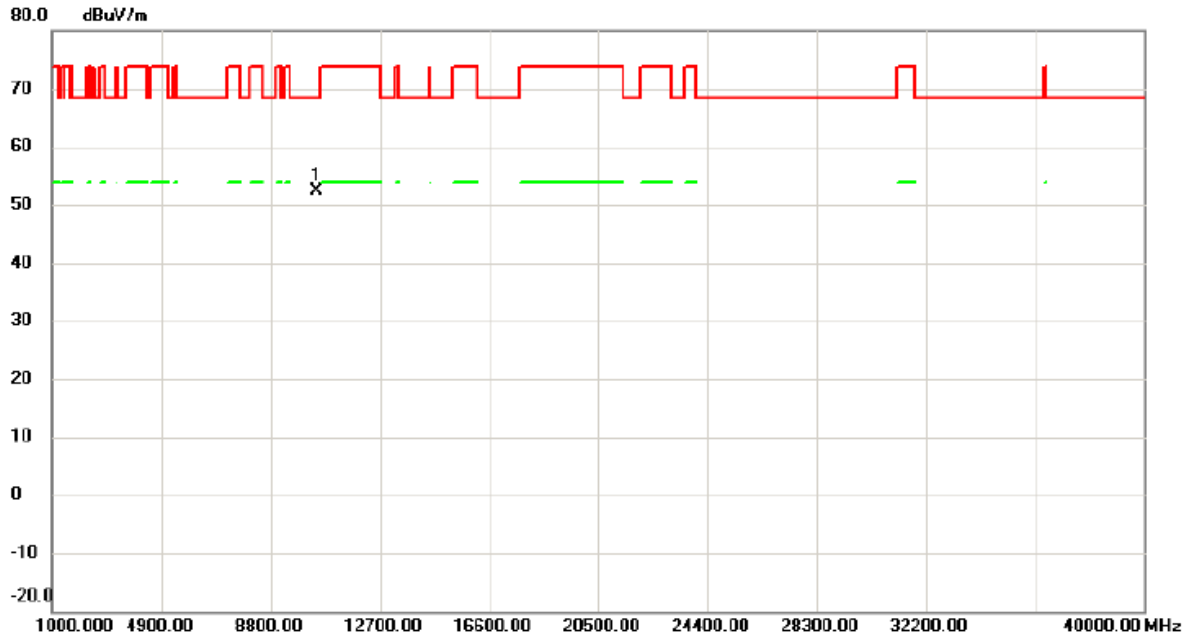



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 5227.100 | 86.67 | 15.08 | 101.75 | 68.30 | 33.45 | peak | No Limit |
| 2 | X | 5237.000 | 79.57 | 15.08 | 94.65 | 68.30 | 26.35 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW40) Mode 5230 MHz |

**Horizontal**

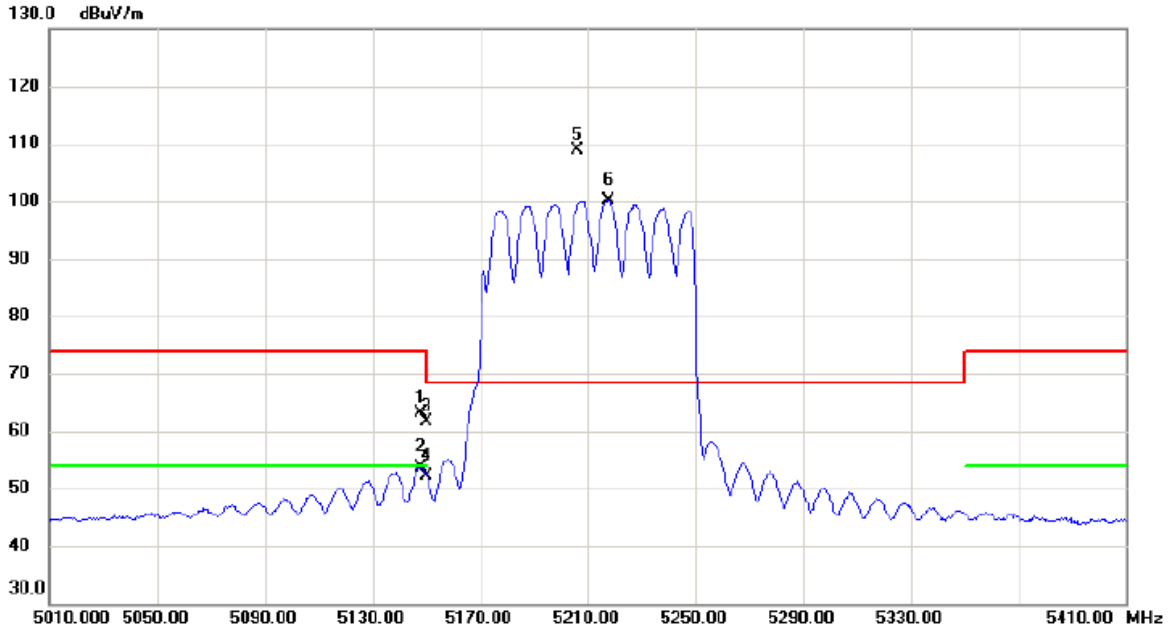



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10459.847 | 43.28 | 8.98 | 52.26 | 68.30 | -16.04 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW80) Mode 5210 MHz |

**Vertical**

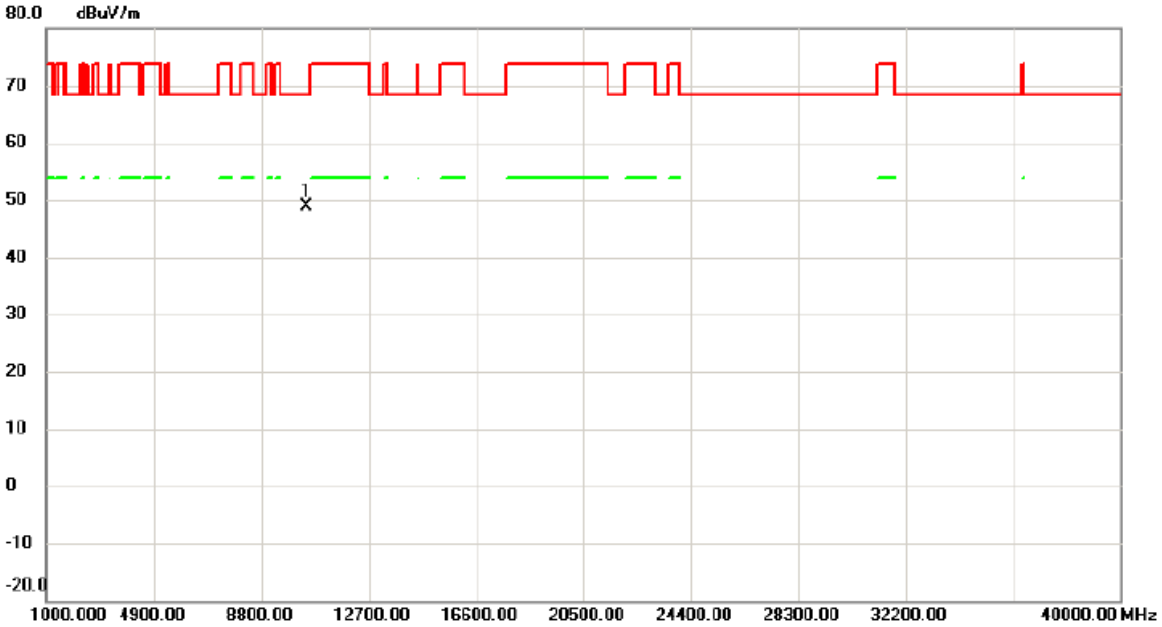



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 5148.000 | 48.09 | 15.02 | 63.11 | 74.00 | -10.89 | peak | |
| 2 | | 5148.000 | 38.69 | 15.02 | 53.71 | 54.00 | -0.29 | AVG | |
| 3 | | 5150.000 | 46.66 | 15.02 | 61.68 | 74.00 | -12.32 | peak | |
| 4 | | 5150.000 | 37.18 | 15.02 | 52.20 | 54.00 | -1.80 | AVG | |
| 5 | * | 5205.800 | 93.82 | 15.05 | 108.87 | 68.30 | 40.57 | peak | No Limit |
| 6 | X | 5217.800 | 85.01 | 15.06 | 100.07 | 68.30 | 31.77 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW80) Mode 5210 MHz |

**Vertical**

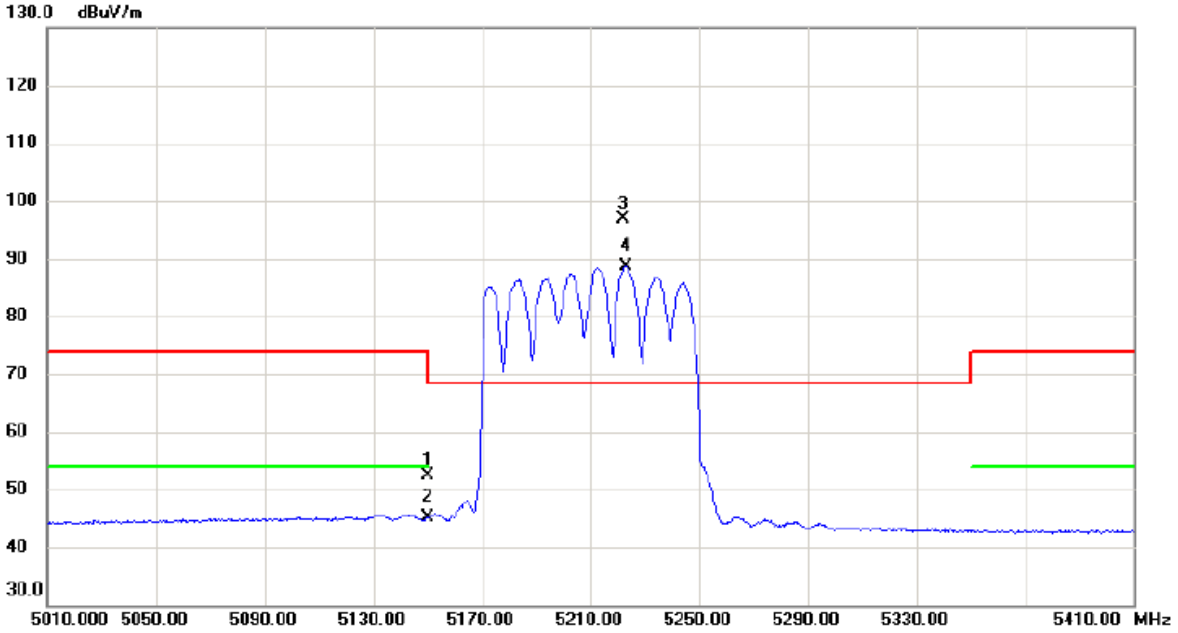



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10419.954 | 39.98 | 8.90 | 48.88 | 68.30 | -19.42 | peak | |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW80) Mode 5210 MHz |

**Horizontal**

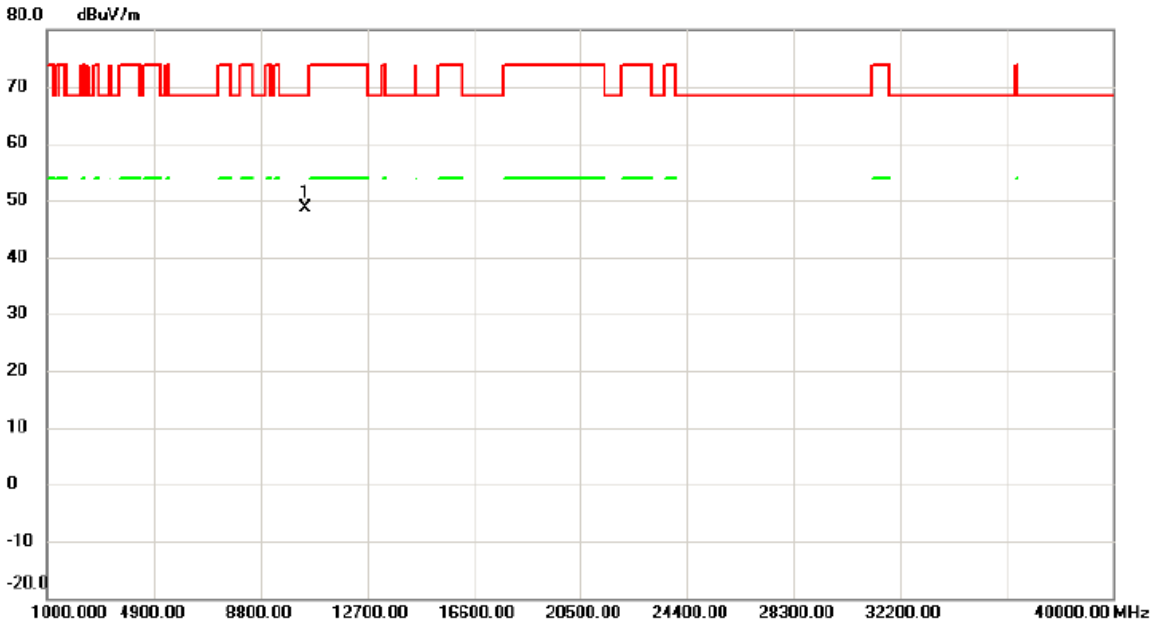



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 5150.000 | 37.39 | 15.02 | 52.41 | 74.00 | -21.59 | peak | |
| 2 | | 5150.000 | 30.09 | 15.02 | 45.11 | 54.00 | -8.89 | AVG | |
| 3 | * | 5222.000 | 81.72 | 15.06 | 96.78 | 68.30 | 28.48 | peak | No Limit |
| 4 | X | 5223.000 | 73.63 | 15.06 | 88.69 | 68.30 | 20.39 | AVG | No Limit |

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

| | |
|---|---|
| Orthogonal Axis | X |
| Test Mode | UNII-1_TX AX (HEW80) Mode 5210 MHz |

**Horizontal**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | * | 10419.736 | 39.76 | 8.90 | 48.66 | 68.30 | -19.64 | peak | |

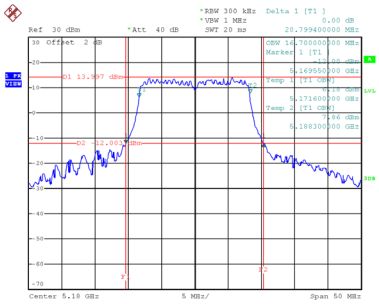
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

# APPENDIX E - BANDWIDTH

| Test Mode | UNII-1_TX A Mode |
|---|---|

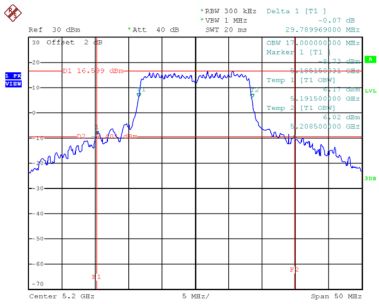
| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 36 | 5180 | 20.80 | 16.70 |
| 40 | 5200 | 29.79 | 17.00 |
| 48 | 5240 | 37.80 | 18.60 |

**CH36**



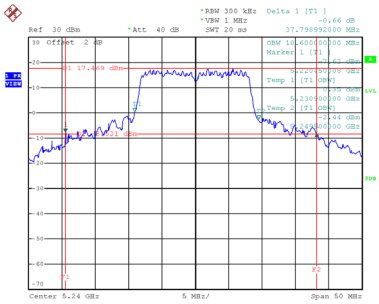
Date: 31.OCT.2019 16:46:11

**CH40**



Date: 31.OCT.2019 16:47:13

**CH48**

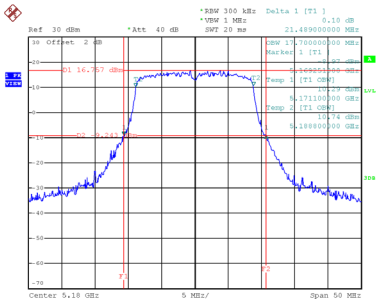


Date: 31.OCT.2019 16:49:12

| Test Mode | UNII-1_TX N (HT20) Mode |
|---|---|

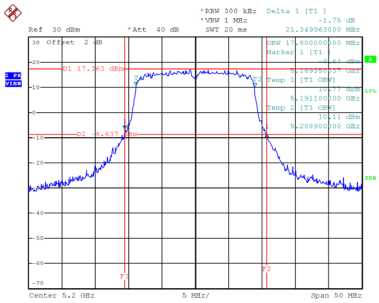
| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 36 | 5180 | 21.49 | 17.70 |
| 40 | 5200 | 21.35 | 17.80 |
| 48 | 5240 | 21.65 | 17.70 |

**CH36**



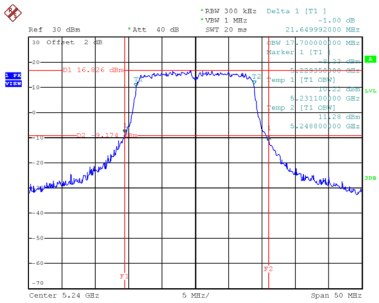
Date: 31.OCT.2019 16:50:12

**CH40**



Date: 31.OCT.2019 16:51:13

**CH48**

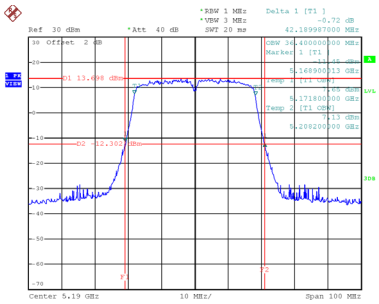


Date: 31.OCT.2019 16:52:10

| Test Mode | UNII-1_TX N (HT40) Mode |
|---|---|

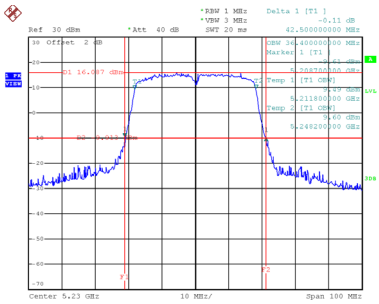
| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 38 | 5190 | 42.19 | 36.40 |
| 46 | 5230 | 42.50 | 36.40 |

**CH38**



Date: 31.OCT.2019 18:43:47

**CH46**

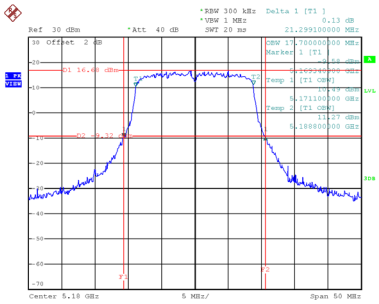


Date: 31.OCT.2019 18:44:33

| Test Mode | UNII-1_TX AC (VHT20) Mode |
|---|---|

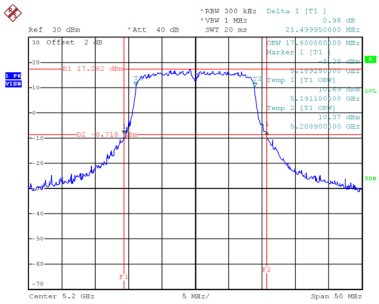
| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 36 | 5180 | 21.30 | 17.70 |
| 40 | 5200 | 21.50 | 17.80 |
| 48 | 5240 | 21.50 | 17.70 |

**CH36**



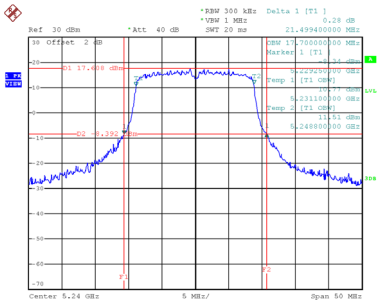
Date: 31.OCT.2019 16:53:32

**CH40**



Date: 31.OCT.2019 16:56:29

**CH48**

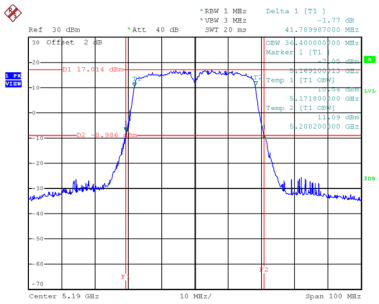


Date: 31.OCT.2019 16:57:25

| Test Mode | UNII-1_TX AC (VHT40) Mode |
|---|---|

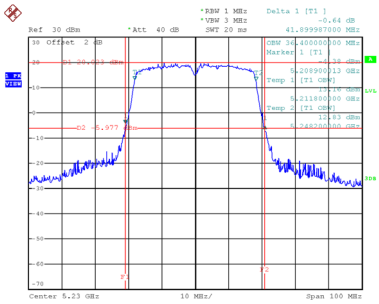
| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 38 | 5190 | 41.79 | 36.40 |
| 46 | 5230 | 41.90 | 36.40 |

**CH38**



Date: 31.OCT.2019 16:58:37

**CH46**

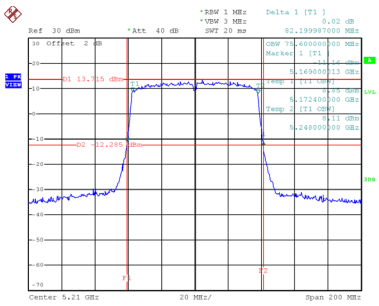


Date: 31.OCT.2019 17:00:12

| Test Mode | UNII-1_TX AC (VHT80) Mode |
|---|---|

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 42 | 5210 | 82.20 | 75.60 |

**CH42**

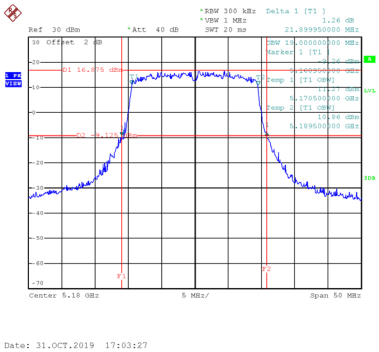


Date: 31.OCT.2019 17:01:21

| Test Mode | UNII-1_TX AX (HEW20) Mode |
|---|---|

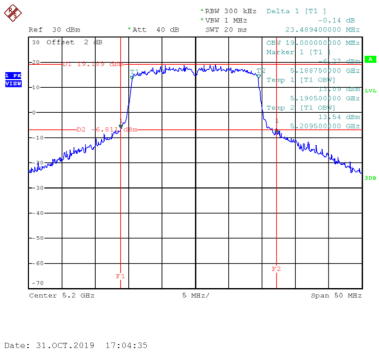
| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 36 | 5180 | 21.90 | 19.00 |
| 40 | 5200 | 23.49 | 19.00 |
| 48 | 5240 | 22.30 | 19.10 |

**CH36**



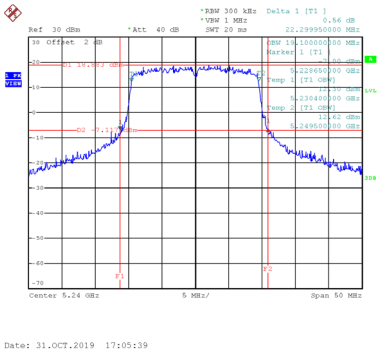
Date: 31.OCT.2019 17:03:27

**CH40**



Date: 31.OCT.2019 17:04:35

**CH48**

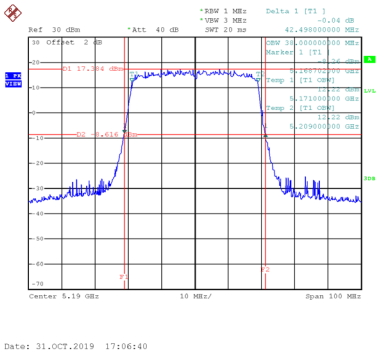


Date: 31.OCT.2019 17:05:39

| Test Mode | UNII-1_TX AX (HEW40) Mode |
|---|---|

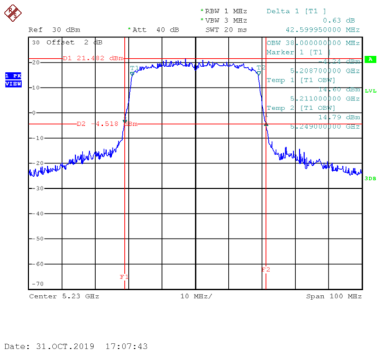
| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 38 | 5190 | 42.50 | 38.00 |
| 46 | 5230 | 42.60 | 38.00 |

**CH38**



Date: 31.OCT.2019 17:06:40

**CH46**

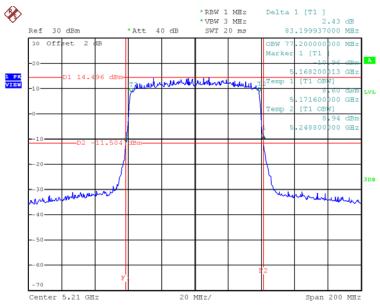


Date: 31.OCT.2019 17:07:43

| Test Mode | UNII-1_TX AX (HEW80) |
|---|---|

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---|---|---|---|
| 42 | 5210 | 83.20 | 77.20 |

**CH42**




Date: 31.OCT.2019 17:08:50

# APPENDIX F - CONDUCTED OUTPUT POWER

| Test Mode | UNII-1_TX A Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 19.91 | 0.23 | 20.14 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 21.98 | 0.23 | 22.21 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 23.69 | 0.23 | 23.92 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX A Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 20.48 | 0.23 | 20.71 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 22.49 | 0.23 | 22.72 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 24.05 | 0.23 | 24.28 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX A Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 36 | 5180 | 23.45 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 25.49 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 27.12 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX N (HT20) Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 22.33 | 0.15 | 22.48 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 22.92 | 0.15 | 23.07 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 22.98 | 0.15 | 23.13 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX N (HT20) Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 22.72 | 0.15 | 22.87 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 23.51 | 0.15 | 23.66 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 23.36 | 0.15 | 23.51 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX N (HT20) Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 36 | 5180 | 25.69 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 26.39 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 26.34 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX N (HT40) Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 38 | 5190 | 20.58 | 0.23 | 20.81 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 22.68 | 0.23 | 22.91 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX N (HT40) Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 38 | 5190 | 20.82 | 0.23 | 21.05 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 22.96 | 0.23 | 23.19 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX N (HT40) Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 38 | 5190 | 23.95 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 26.07 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT20) Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 22.87 | 0.17 | 23.04 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 24.36 | 0.17 | 24.53 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 23.97 | 0.17 | 24.14 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT20) Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 23.04 | 0.17 | 23.21 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 24.77 | 0.17 | 24.94 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 24.36 | 0.17 | 24.53 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT20) Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 36 | 5180 | 26.14 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 27.75 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 27.35 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT40) Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 38 | 5190 | 19.92 | 0.22 | 20.14 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 22.64 | 0.22 | 22.86 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT40) Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 38 | 5190 | 20.26 | 0.22 | 20.48 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 23.03 | 0.22 | 23.25 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT40) Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 38 | 5190 | 23.32 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 26.07 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT80) Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 42 | 5210 | 18.94 | 0.20 | 19.14 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT80) Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 42 | 5210 | 19.39 | 0.20 | 19.59 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AC (VHT80) Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 42 | 5210 | 22.38 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW20) Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 21.39 | 0.18 | 21.57 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 23.69 | 0.18 | 23.87 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 23.87 | 0.18 | 24.05 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW20) Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 36 | 5180 | 21.41 | 0.18 | 21.59 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 23.98 | 0.18 | 24.16 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 24.33 | 0.18 | 24.51 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW20) Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 36 | 5180 | 24.60 | 30.00 | 1.00 | Complies |
| 40 | 5200 | 27.03 | 30.00 | 1.00 | Complies |
| 48 | 5240 | 27.30 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW40) Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 38 | 5190 | 19.74 | 0.19 | 19.93 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 22.59 | 0.19 | 22.78 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW40) Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 38 | 5190 | 19.96 | 0.19 | 20.15 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 22.98 | 0.19 | 23.17 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW40) Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 38 | 5190 | 23.05 | 30.00 | 1.00 | Complies |
| 46 | 5230 | 25.99 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW80) Mode_Ant. 1 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 42 | 5210 | 19.07 | 0.17 | 19.24 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW80) Mode_Ant. 2 |
|---|---|

| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Duty Factor | Conducted Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|---|---|
| 42 | 5210 | 19.63 | 0.17 | 19.80 | 30.00 | 1.00 | Complies |

| Test Mode | UNII-1_TX AX (HEW80) Mode_Total |
|---|---|

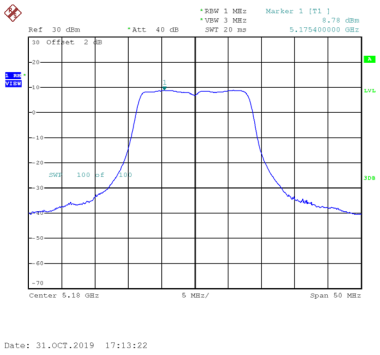
| Channel | Frequency (MHz) | Conducted Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---|---|---|---|---|---|
| 42 | 5210 | 22.54 | 30.00 | 1.00 | Complies |

# APPENDIX G - POWER SPECTRAL DENSITY

| Test Mode | UNII-1_TX A Mode_Ant. 1 |
|---|---|

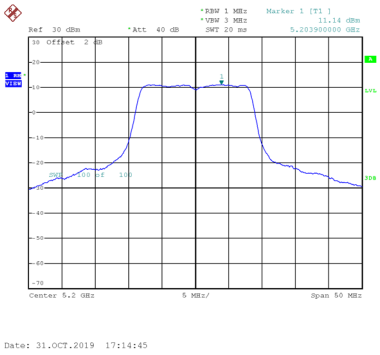
| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---|---|---|---|---|---|---|
| 36 | 5180 | 8.78 | 0.23 | 9.01 | 17.00 | Complies |
| 40 | 5200 | 11.14 | 0.23 | 11.37 | 17.00 | Complies |
| 48 | 5240 | 12.25 | 0.23 | 12.48 | 17.00 | Complies |

**CH36**



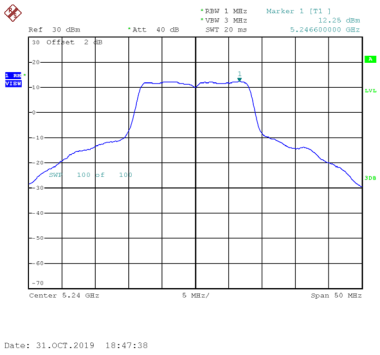
Date: 31.OCT.2019 17:13:22

**CH40**



Date: 31.OCT.2019 17:14:45

**CH48**

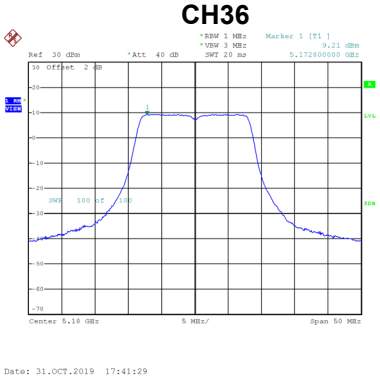


Date: 31.OCT.2019 18:47:38

| Test Mode | UNII-1_TX A Mode_Ant. 2 |
|---|---|

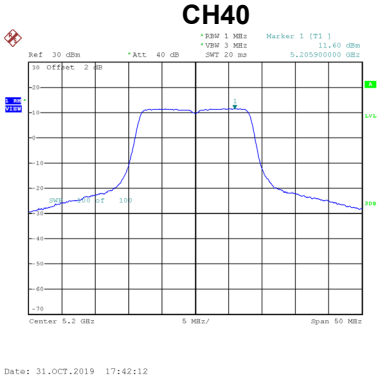
| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---|---|---|---|---|---|---|
| 36 | 5180 | 9.21 | 0.23 | 9.44 | 17.00 | Complies |
| 40 | 5200 | 11.60 | 0.23 | 11.83 | 17.00 | Complies |
| 48 | 5240 | 13.09 | 0.23 | 13.32 | 17.00 | Complies |

**CH36**



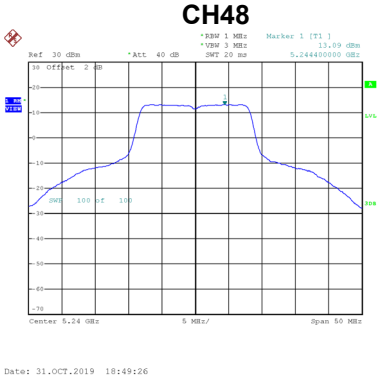
Date: 31.OCT.2019 17:41:29

**CH40**



Date: 31.OCT.2019 17:42:12

**CH48**



Date: 31.OCT.2019 18:49:26

| Test Mode | UNII-1_TX A Mode_Total |
|---|---|

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---|---|---|---|---|
| 36 | 5180 | 12.24 | 17.00 | Complies |
| 40 | 5200 | 14.62 | 17.00 | Complies |
| 48 | 5240 | 15.93 | 17.00 | Complies |