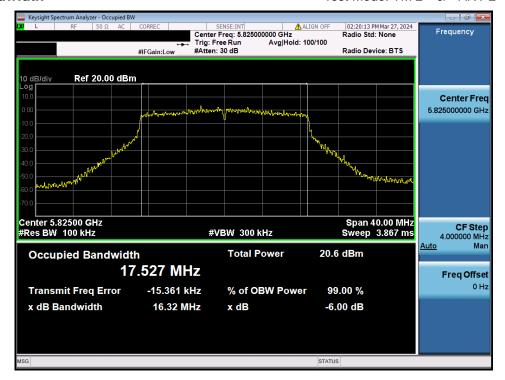




# 6 dB Bandwidth Test Mode: TM 2 & ANT 2 & Ch.165



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#### 6 dB Bandwidth Test Mode: TM 3 & ANT 2 & Ch.151



### 6 dB Bandwidth

Test Mode: TM 3 & ANT 2 & Ch.159



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FCC ID: V2X-PM95

6 dB Bandwidth Test Mode: TM 4 & ANT 2 & Ch.155



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FCC ID: V2X-PM95



### 5.3 Maximum Conducted Output Power

#### Test Requirements

Part. 15.407(a)

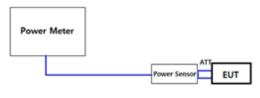
### (1) For the band 5.15 GHz - 5.25 GHz.

- (i) For an outdoor access point operating in the band 5.15 GHz 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. 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. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15 GHz 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. 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.
- (iii) For fixed point-to-point access points operating in the band 5.15 GHz 5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For mobile and portable client devices in the 5.15 GHz 5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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.
- (2) For the 5.25 GHz 5.35 GHz and 5.47 GHz 5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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.
- (3) For the band 5.725 GHz 5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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### **■** Test Configuration



Method PM-G

#### **■** Test Procedure

### Method PM-G of KDB789033 D02v02r01

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.



**■** Test Results: Comply

- Summed Output Power: CDD

| Mode     | Band     | Channel | Frequency | Conducted<br>Output Power(dBm) |       |                    |  |
|----------|----------|---------|-----------|--------------------------------|-------|--------------------|--|
| Wode     | Ballu    | Chame   | (MHz)     | ANT 1                          | ANT 2 | ANT1+ANT2<br>(CDD) |  |
|          |          | 36      | 5 180     | 13.16                          | 13.88 | 16.55              |  |
|          | U-NII 1  | 40      | 5 200     | 13.13                          | 13.46 | 16.31              |  |
|          |          | 48      | 5 240     | 13.44                          | 13.38 | 16.42              |  |
|          |          | 52      | 5 260     | 13.52                          | 13.43 | 16.49              |  |
|          | U-NII 2A | 60      | 5 300     | 13.14                          | 13.38 | 16.27              |  |
| 802.11a  |          | 64      | 5 320     | 13.07                          | 13.22 | 16.16              |  |
| 602.11a  |          | 100     | 5 500     | 12.96                          | 12.90 | 15.94              |  |
|          | U-NII 2C | 120     | 5 600     | 12.86                          | 12.44 | 15.67              |  |
|          |          | 144     | 5 720     | 12.70                          | 12.22 | 15.48              |  |
|          |          | 149     | 5 745     | 12.58                          | 12.05 | 15.33              |  |
|          | U-NII 3  | 157     | 5 785     | 12.76                          | 11.79 | 15.31              |  |
|          |          | 165     | 5 825     | 12.83                          | 11.54 | 15.24              |  |
|          | U-NII 1  | 36      | 5 180     | 13.06                          | 13.81 | 16.46              |  |
|          |          | 40      | 5 200     | 12.77                          | 13.16 | 15.98              |  |
|          |          | 48      | 5 240     | 13.15                          | 13.06 | 16.12              |  |
|          | U-NII 2A | 52      | 5 260     | 13.19                          | 13.05 | 16.13              |  |
|          |          | 60      | 5 300     | 12.76                          | 12.95 | 15.87              |  |
| 802.11n  |          | 64      | 5 320     | 12.70                          | 12.87 | 15.80              |  |
| (HT20)   | U-NII 2C | 100     | 5 500     | 12.87                          | 12.66 | 15.78              |  |
|          |          | 120     | 5 600     | 12.63                          | 12.08 | 15.37              |  |
|          |          | 144     | 5 720     | 12.44                          | 11.87 | 15.17              |  |
|          | U-NII 3  | 149     | 5 745     | 12.42                          | 11.75 | 15.11              |  |
|          |          | 157     | 5 785     | 12.48                          | 11.39 | 14.98              |  |
|          |          | 165     | 5 825     | 12.59                          | 11.29 | 15.00              |  |
|          | U-NII 1  | 36      | 5 180     | 12.83                          | 13.85 | 16.38              |  |
|          |          | 40      | 5 200     | 12.84                          | 13.08 | 15.97              |  |
|          |          | 48      | 5 240     | 13.15                          | 13.09 | 16.13              |  |
|          |          | 52      | 5 260     | 13.08                          | 13.10 | 16.10              |  |
|          | U-NII 2A | 60      | 5 300     | 12.86                          | 12.99 | 15.94              |  |
| 802.11ac |          | 64      | 5 320     | 12.73                          | 12.92 | 15.84              |  |
| (VHT20)  |          | 100     | 5 500     | 12.80                          | 12.62 | 15.72              |  |
|          | U-NII 2C | 120     | 5 600     | 12.46                          | 12.02 | 15.26              |  |
|          |          | 144     | 5 720     | 12.38                          | 11.79 | 15.11              |  |
|          |          | 149     | 5 745     | 12.26                          | 11.68 | 14.99              |  |
|          | U-NII 3  | 157     | 5 785     | 12.45                          | 11.41 | 14.97              |  |
|          |          | 165     | 5 825     | 12.46                          | 11.24 | 14.90              |  |

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| Mode                | Band       | Channel | Frequency | Conducted<br>Output Power(dBm) |       |                    |  |
|---------------------|------------|---------|-----------|--------------------------------|-------|--------------------|--|
|                     | Band       | Onamici | (MHz)     | ANT 1                          | ANT 2 | ANT1+ANT2<br>(CDD) |  |
|                     | U-NII 1    | 38      | 5 190     | 13.96                          | 14.05 | 17.02              |  |
|                     | O-INII I   | 46      | 5 230     | 14.45                          | 14.44 | 17.46              |  |
|                     | U-NII 2A   | 54      | 5 270     | 14.46                          | 14.43 | 17.46              |  |
| 000.44              | U-NII ZA   | 62      | 5 310     | 13.95                          | 13.80 | 16.89              |  |
| 802.11n<br>(HT40)   |            | 102     | 5 510     | 13.90                          | 13.89 | 16.91              |  |
| (11140)             | U-NII 2C   | 118     | 5 590     | 13.78                          | 13.74 | 16.77              |  |
|                     |            | 142     | 5 710     | 13.70                          | 13.50 | 16.61              |  |
|                     | U-NII 3    | 151     | 5 755     | 13.93                          | 13.31 | 16.64              |  |
|                     |            | 159     | 5 795     | 13.66                          | 13.19 | 16.44              |  |
|                     | U-NII 1    | 38      | 5 190     | 13.96                          | 14.07 | 17.03              |  |
|                     |            | 46      | 5 230     | 14.47                          | 13.87 | 17.19              |  |
|                     | U-NII 2A   | 54      | 5 270     | 14.17                          | 13.89 | 17.04              |  |
| 000.44              |            | 62      | 5 310     | 13.94                          | 13.87 | 16.92              |  |
| 802.11ac<br>(VHT40) | U-NII 2C   | 102     | 5 510     | 13.93                          | 13.67 | 16.81              |  |
| (11140)             |            | 118     | 5 590     | 13.67                          | 13.38 | 16.54              |  |
|                     |            | 142     | 5 710     | 13.46                          | 13.12 | 16.30              |  |
|                     | U-NII 3    | 151     | 5 755     | 13.63                          | 12.79 | 16.24              |  |
|                     |            | 159     | 5 795     | 13.65                          | 12.63 | 16.18              |  |
|                     | U-NII 1    | 42      | 5 210     | 13.85                          | 13.55 | 16.71              |  |
|                     | U-NII 2A   | 58      | 5 290     | 13.78                          | 13.45 | 16.63              |  |
| 802.11ac            |            | 106     | 5 530     | 13.35                          | 13.25 | 16.31              |  |
| (VHT80)             | U-NII 2C   | 122     | 5 610     | 12.96                          | 12.73 | 15.86              |  |
|                     |            | 138     | 5 690     | 13.23                          | 12.83 | 16.04              |  |
|                     | U-NII 3    | 155     | 5 775     | 13.12                          | 12.32 | 15.75              |  |
| 802.11ac            | U-NII-1,2A | 50      | 5 250     | 12.84                          | 13.35 | 16.11              |  |
| (VHT160)            | U-NII-2C   | 114     | 5 570     | 13.40                          | 13.44 | 16.43              |  |



## - Summed Output Power: SDM

| Mode     | Band     | Channel  | Frequency | Conducted<br>Output Power(dBm) |       |                    |  |
|----------|----------|----------|-----------|--------------------------------|-------|--------------------|--|
|          | Band     | Chamilei | (MHz)     | ANT 1                          | ANT 2 | ANT1+ANT2<br>(SDM) |  |
|          |          | 36       | 5 180     | 12.91                          | 13.76 | 16.37              |  |
|          | U-NII 1  | 40       | 5 200     | 12.49                          | 13.10 | 15.82              |  |
|          |          | 48       | 5 240     | 12.91                          | 12.68 | 15.81              |  |
|          |          | 52       | 5 260     | 12.87                          | 12.84 | 15.87              |  |
|          | U-NII 2A | 60       | 5 300     | 12.63                          | 12.59 | 15.62              |  |
| 802.11n  |          | 64       | 5 320     | 12.46                          | 12.75 | 15.62              |  |
| (HT20)   | U-NII 2C | 100      | 5 500     | 12.86                          | 12.56 | 15.72              |  |
|          |          | 120      | 5 600     | 12.59                          | 11.83 | 15.24              |  |
|          |          | 144      | 5 720     | 12.19                          | 11.74 | 14.98              |  |
|          | U-NII 3  | 149      | 5 745     | 12.24                          | 11.64 | 14.96              |  |
|          |          | 157      | 5 785     | 12.10                          | 11.01 | 14.60              |  |
|          |          | 165      | 5 825     | 12.21                          | 10.98 | 14.65              |  |
|          | U-NII 1  | 36       | 5 180     | 12.76                          | 13.57 | 16.19              |  |
|          |          | 40       | 5 200     | 12.69                          | 12.89 | 15.80              |  |
|          |          | 48       | 5 240     | 13.04                          | 12.84 | 15.95              |  |
|          | U-NII 2A | 52       | 5 260     | 12.82                          | 13.02 | 15.93              |  |
|          |          | 60       | 5 300     | 12.55                          | 12.64 | 15.61              |  |
| 802.11ac |          | 64       | 5 320     | 12.61                          | 12.85 | 15.74              |  |
| (VHT20)  | U-NII 2C | 100      | 5 500     | 12.76                          | 12.37 | 15.58              |  |
|          |          | 120      | 5 600     | 12.46                          | 12.02 | 15.26              |  |
|          |          | 144      | 5 720     | 12.16                          | 11.57 | 14.89              |  |
|          | U-NII 3  | 149      | 5 745     | 12.04                          | 11.52 | 14.80              |  |
|          |          | 157      | 5 785     | 12.33                          | 11.08 | 14.76              |  |
|          |          | 165      | 5 825     | 12.09                          | 11.09 | 14.63              |  |

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| Mode                | Band       | Channel    | Frequency | Conducted<br>Output Power(dBm) |       |                    |  |
|---------------------|------------|------------|-----------|--------------------------------|-------|--------------------|--|
|                     | 3          | Gildillioi | (MHz)     | ANT 1                          | ANT 2 | ANT1+ANT2<br>(SDM) |  |
|                     | U-NII 1    | 38         | 5 190     | 13.79                          | 13.97 | 16.89              |  |
|                     | O-IVII I   | 46         | 5 230     | 13.91                          | 14.10 | 17.02              |  |
|                     | U-NII 2A   | 54         | 5 270     | 13.93                          | 13.93 | 16.94              |  |
| 000.44              | U-MII ZA   | 62         | 5 310     | 13.79                          | 13.40 | 16.61              |  |
| 802.11n<br>(HT40)   |            | 102        | 5 510     | 13.61                          | 13.72 | 16.68              |  |
| (11140)             | U-NII 2C   | 118        | 5 590     | 13.50                          | 13.71 | 16.62              |  |
|                     |            | 142        | 5 710     | 13.30                          | 13.14 | 16.23              |  |
|                     | U-NII 3    | 151        | 5 755     | 13.87                          | 13.00 | 16.47              |  |
|                     |            | 159        | 5 795     | 13.33                          | 13.17 | 16.26              |  |
|                     | U-NII 1    | 38         | 5 190     | 13.88                          | 13.74 | 16.82              |  |
|                     |            | 46         | 5 230     | 14.28                          | 13.92 | 17.11              |  |
|                     | U-NII 2A   | 54         | 5 270     | 13.94                          | 13.89 | 16.93              |  |
| 000.44              |            | 62         | 5 310     | 13.79                          | 13.78 | 16.80              |  |
| 802.11ac<br>(VHT40) | U-NII 2C   | 102        | 5 510     | 13.74                          | 13.46 | 16.61              |  |
| (11140)             |            | 118        | 5 590     | 13.31                          | 13.23 | 16.28              |  |
|                     |            | 142        | 5 710     | 13.14                          | 13.09 | 16.13              |  |
|                     | U-NII 3    | 151        | 5 755     | 13.50                          | 12.58 | 16.07              |  |
|                     |            | 159        | 5 795     | 13.32                          | 12.24 | 15.82              |  |
|                     | U-NII 1    | 42         | 5 210     | 13.74                          | 13.45 | 16.61              |  |
|                     | U-NII 2A   | 58         | 5 290     | 13.66                          | 13.23 | 16.46              |  |
| 802.11ac<br>(VHT80) | U-NII 2C   | 106        | 5 530     | 13.17                          | 13.25 | 16.22              |  |
|                     |            | 122        | 5 610     | 12.87                          | 12.55 | 15.72              |  |
|                     |            | 138        | 5 690     | 12.94                          | 12.58 | 15.77              |  |
|                     | U-NII 3    | 155        | 5 775     | 13.01                          | 12.31 | 15.68              |  |
| 802.11ac            | U-NII-1,2A | 50         | 5 250     | 12.50                          | 13.33 | 15.95              |  |
| (VHT160)            | U-NII-2C   | 114        | 5 570     | 13.14                          | 13.24 | 16.20              |  |

FCC ID: V2X-PM95



## 5.4 Maximum Power Spectral Density

### ■ Test requirements

#### Part. 15.407(a)

- (1) For the band 5.15 GHz 5.25 GHz.
  - (i) For an outdoor access point operating in the band  $5.15~\mathrm{GHz}$   $5.25~\mathrm{GHz}$ , the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.  $^{\mathrm{note1}}$
  - (ii) For an indoor access point operating in the band 5.15 GHz 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band. note1
  - (iii) For fixed point-to-point access points operating in the band 5.15 GHz 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
  - (iv) For mobile and portable client devices in the 5.15 GHz 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. note1
- (2) For the 5.25 GHz 5.35 GHz and 5.47 GHz 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band. note1
- (3) For the band 5.725 GHz 5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.<sup>note1,note2</sup>
- **Note1**: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- **Note2**: Fixed point to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

### **■** Test Configuration

Refer to the APPENDIX I.



#### **■** Test Procedure

Maximum Power Spectral Density is measured using Measurement Procedure of KDB789033 D02v02r01

- 1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA 1, SA 2, SA 3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
- 2) Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- 3) Make the following adjustments to the peak value of the spectrum, if applicable:
  - a) If Method SA 2 or SA 2 Alternative was used, add 10 log(1 / x), where x is the duty cycle, to the peak of the spectrum.
  - b) If Method SA 3 Alternative was used and the linear mode was used in step II.E.2.g (viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
- 4) The result is the Maximum PSD over 1 MHz reference bandwidth.
- 5) For devices operating in the bands 5.15 GHz 5.25 GHz, 5.25 GHz 5.35 GHz, and 5.47 GHz 5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in §15.407(a). For devices operating in the band 5.725 GHz 5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
  - a) Set RBW ≥ 1 / T, where T is defined in section II.B.1.a). (Refer to Appendix II)
  - b) Set VBW ≥ 3 RBW.
  - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log(500 kHz / RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
  - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log(1 MHz / RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
  - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW = 100 kHz is available on nearly all spectrum analyzers.



## **■ Test Results: Comply**

| Test Mode | Band        | Channel | Frequency<br>(MHz) | Reading<br>(dBm) |       | DCCF | Power<br>Spectral<br>Density(dBm) |
|-----------|-------------|---------|--------------------|------------------|-------|------|-----------------------------------|
|           |             |         |                    | ANT 1            | ANT 2 | (dB) | ANT1+ANT2<br>(CDD)                |
|           |             | 36      | 5 180              | 4.24             | 3.89  | 0.04 | 7.12                              |
|           | U-NII 1     | 40      | 5 200              | 4.12             | 3.89  | 0.04 | 7.06                              |
|           |             | 48      | 5 240              | 5.49             | 3.86  | 0.04 | 7.80                              |
|           |             | 52      | 5 260              | 5.13             | 3.61  | 0.04 | 7.49                              |
| TM 1      | U-NII 2A    | 60      | 5 300              | 5.76             | 3.49  | 0.04 | 7.82                              |
|           |             | 64      | 5 320              | 5.11             | 3.21  | 0.04 | 7.32                              |
|           |             | 100     | 5 500              | 5.32             | 4.10  | 0.04 | 7.80                              |
|           | U-NII 2C    | 120     | 5 600              | 5.20             | 3.12  | 0.04 | 7.33                              |
|           |             | 144     | 5 720              | 5.46             | 2.61  | 0.04 | 7.31                              |
|           |             | 36      | 5 180              | 3.76             | 3.41  | 0.01 | 6.61                              |
|           | U-NII 1     | 40      | 5 200              | 3.57             | 3.29  | 0.01 | 6.45                              |
|           |             | 48      | 5 240              | 4.99             | 3.01  | 0.01 | 7.14                              |
|           | U-NII 2A    | 52      | 5 260              | 4.93             | 2.81  | 0.01 | 7.02                              |
| TM 2      |             | 60      | 5 300              | 4.60             | 2.69  | 0.01 | 6.77                              |
|           |             | 64      | 5 320              | 4.43             | 2.88  | 0.01 | 6.74                              |
|           | U-NII 2C    | 100     | 5 500              | 4.80             | 3.23  | 0.01 | 7.11                              |
|           |             | 120     | 5 600              | 2.30             | 2.87  | 0.01 | 5.61                              |
|           |             | 144     | 5 720              | 4.65             | 2.02  | 0.01 | 6.55                              |
|           | U-NII 1     | 38      | 5 190              | 3.34             | 1.14  | 0.02 | 5.41                              |
|           |             | 46      | 5 230              | 3.22             | 0.80  | 0.02 | 5.21                              |
|           | U-NII 2A    | 54      | 5 270              | 3.21             | 1.07  | 0.02 | 5.30                              |
| TM 3      |             | 62      | 5 310              | 3.30             | 0.69  | 0.02 | 5.22                              |
|           |             | 102     | 5 510              | 3.19             | 1.42  | 0.02 | 5.42                              |
|           | U-NII 2C    | 118     | 5 590              | 3.10             | 0.95  | 0.02 | 5.19                              |
|           |             | 142     | 5 710              | 3.33             | 0.65  | 0.02 | 5.22                              |
|           | U-NII 1     | 42      | 5 210              | 0.48             | -2.87 | 0.01 | 2.14                              |
|           | U-NII 2A    | 58      | 5 290              | 0.38             | -2.01 | 0.01 | 2.37                              |
| TM 4      | U-NII 2C    | 106     | 5 530              | 0.07             | -1.87 | 0.01 | 2.23                              |
|           |             | 122     | 5 610              | -0.15            | -2.42 | 0.01 | 1.88                              |
|           |             | 138     | 5 690              | 0.45             | -2.43 | 0.01 | 2.26                              |
| TM 5      | U-NII 1, 2A | 50      | 5 250              | -5.05            | -4.35 | 0.01 | -1.67                             |
| I IVI 5   | U-NII 2C    | 114     | 5 570              | -3.00            | -4.71 | 0.01 | -0.75                             |

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| Test Mode | Band    | Channel | Frequency<br>(MHz) | Reading<br>(dBm/500kHz) |       | DCCF  | Power<br>Spectral<br>Density<br>(dBm/500kHz) |      |
|-----------|---------|---------|--------------------|-------------------------|-------|-------|--|------|
|           |         |         |                    | ANT 1                   | ANT 2 | (dB)  | ANT1+ANT2<br>(CDD)                           |      |
|           | U-NII 3 | 149     | 5 745              | 2.11                    | -0.32 | 0.04  | 4.11   |      |
| TM 1      |         | 157     | 5 785              | 2.28                    | 0.32  | 0.04  | 4.46   |      |
|           |         | 165     | 5 825              | 2.71                    | 0.08  | 0.04  | 4.64   |      |
|           | U-NII 3 | 149     | 5 745              | 1.37                    | -0.86 | 0.01  | 3.42   |      |
| TM 2      |         | 157     | 5 785              | 1.48                    | -0.33 | 0.01  | 3.69   |      |
|           |         |         |                    | 165                     | 5 825 | 1.88  | -0.35  | 0.01 |
| TM 3      | U-NII 3 | LLAULO  | 151                | 5 755                   | -0.09 | -3.63 | 0.02   | 1.52 |
|           |         | 159     | 5 795              | -1.95                   | -2.04 | 0.02  | 1.03   |      |
| TM 4      | U-NII 3 | 155     | 5 775              | -3.34                   | -4.77 | 0.01  | -0.98  |      |

Note 1: Power Spectral Density = Reading(Measurement Data) + DCCF

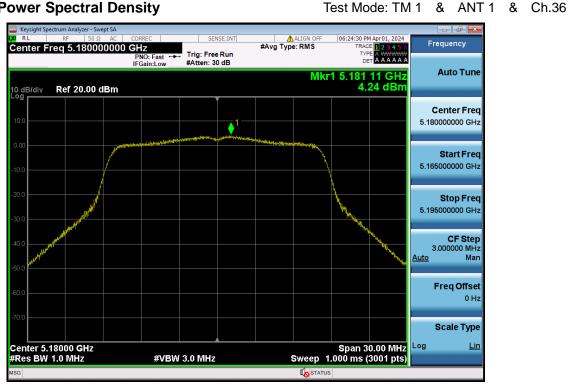
Note 2: Where, DCCF = Duty Cycle Correction Factor

For DCCF(Duty Cycle Correction Factor) please refer to appendix II.







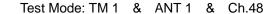






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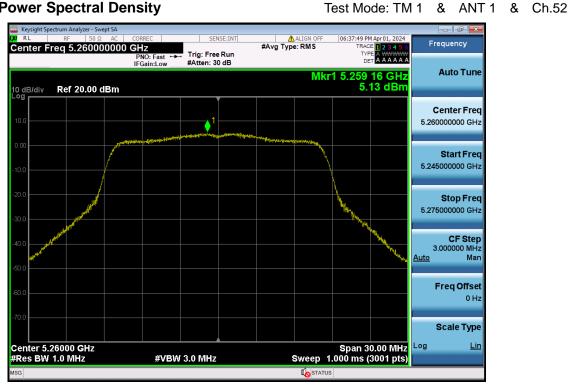




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## **Maximum Power Spectral Density**





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## **Maximum Power Spectral Density**



## **Maximum Power Spectral Density**





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& Ch.149



## **Maximum Power Spectral Density**



## **Maximum Power Spectral Density**





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FCC ID: V2X-PM95

Test Mode: TM 2 & ANT 1 & Ch.36







## **Maximum Power Spectral Density**





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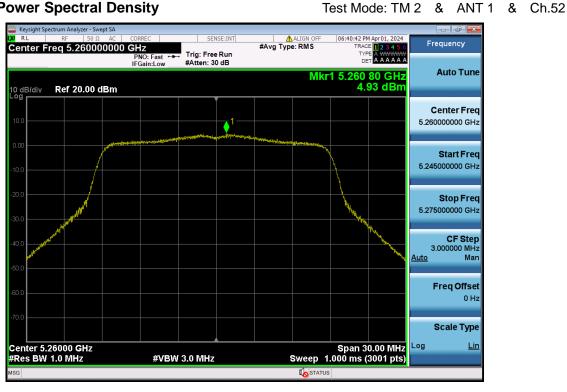




TRF-RF-234(06)210316 Pages: 83 / 182







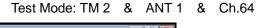
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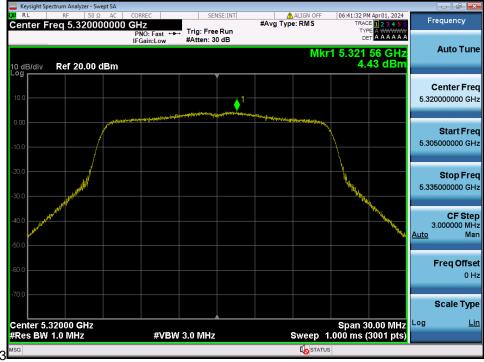




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TRF-RF-234(06)210316 Pages: 85 / 182



& Ch.100



## **Maximum Power Spectral Density**



## **Maximum Power Spectral Density**





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& Ch.149



## **Maximum Power Spectral Density**



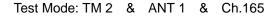
## **Maximum Power Spectral Density**





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TRF-RF-234(06)210316 Pages: 89 / 182



FCC ID: V2X-PM95

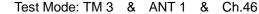
Test Mode: TM 3 & ANT 1 & Ch.38







## **Maximum Power Spectral Density**





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FCC ID: V2X-PM95

Test Mode: TM 3 & ANT 1 & Ch.54







## **Maximum Power Spectral Density**





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## **Maximum Power Spectral Density**



## **Maximum Power Spectral Density**





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TRF-RF-234(06)210316 Pages: 93 / 182



& Ch.151



## **Maximum Power Spectral Density**



## **Maximum Power Spectral Density**





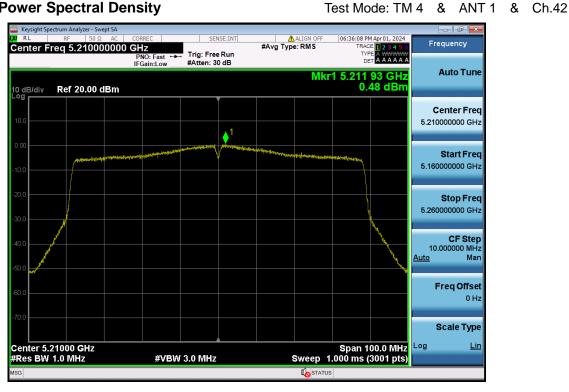
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FCC ID: V2X-PM95



## **Maximum Power Spectral Density**



## **Maximum Power Spectral Density**





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## **Maximum Power Spectral Density**



## **Maximum Power Spectral Density**





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#### **Maximum Power Spectral Density**





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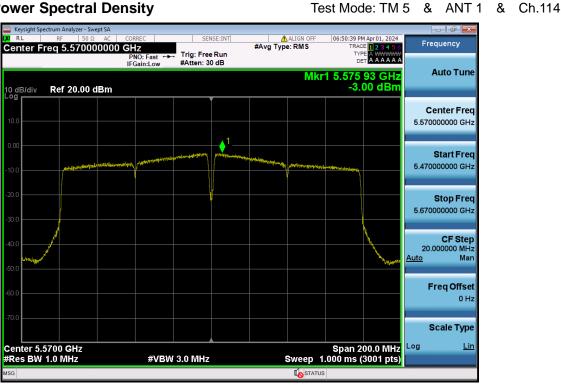
Test Mode: TM 5 & ANT 1 & Ch.50



#### **Maximum Power Spectral Density**



### **Maximum Power Spectral Density**



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Test Mode: TM 1 & ANT 2 & Ch.36







# **Maximum Power Spectral Density**





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Test Mode: TM 1 & ANT 2 & Ch.52







#### **Maximum Power Spectral Density**





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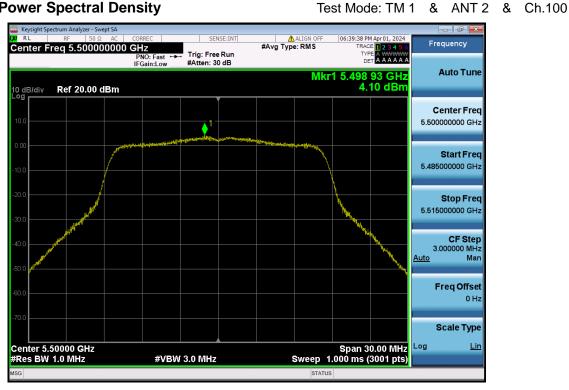




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### **Maximum Power Spectral Density**

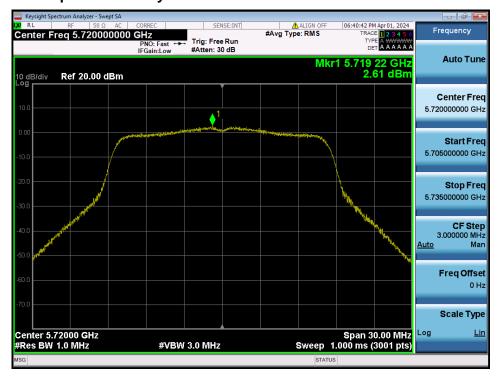




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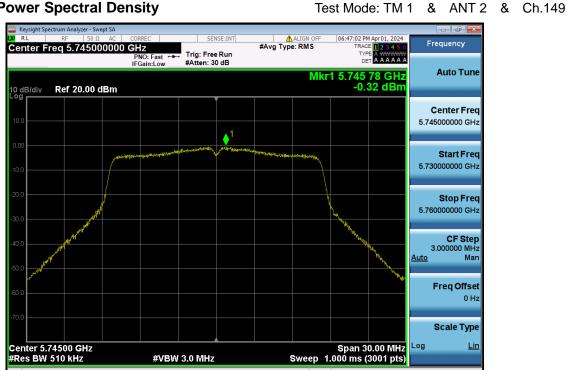




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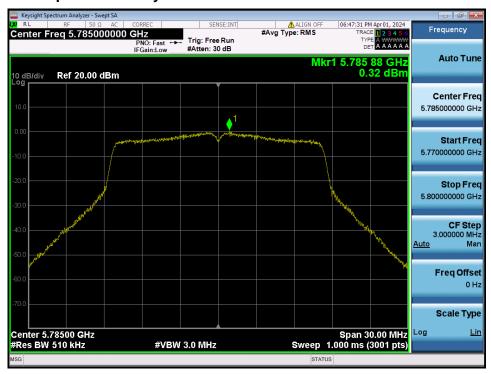






# **Maximum Power Spectral Density**





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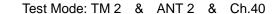
TRF-RF-234(06)210316 Pages: 106 / 182







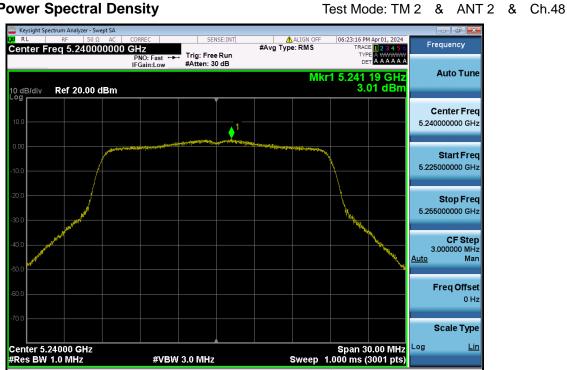
### **Maximum Power Spectral Density**





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Test Mode: TM 2 & ANT 2 & Ch.52







# **Maximum Power Spectral Density**





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Test Mode: TM 2 & ANT 2 & Ch.64



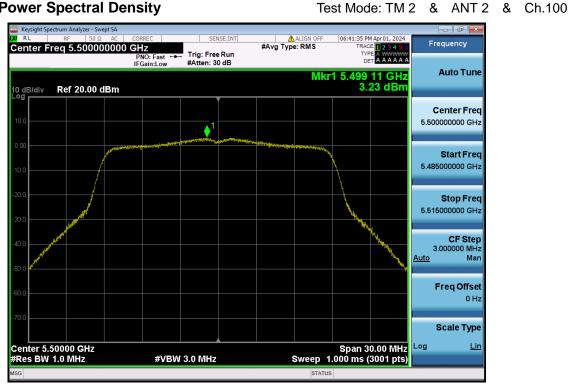
### **Maximum Power Spectral Density**



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### **Maximum Power Spectral Density**





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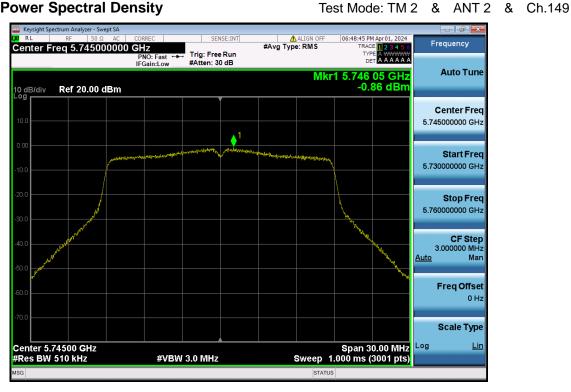




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# **Maximum Power Spectral Density**





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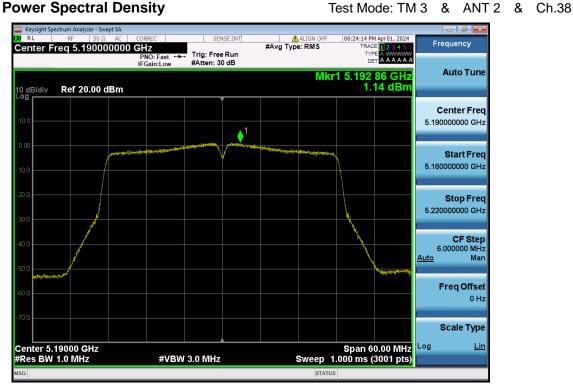




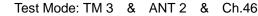
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### **Maximum Power Spectral Density**





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Test Mode: TM 3 & ANT 2 & Ch.54



### **Maximum Power Spectral Density**



# **Maximum Power Spectral Density**





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# **Maximum Power Spectral Density**





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TRF-RF-234(06)210316 Pages: 118 / 182



Test Mode: TM 3 & ANT 2 & Ch.151



### **Maximum Power Spectral Density**



### **Maximum Power Spectral Density**





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Test Mode: TM 4 & ANT 2 & Ch.42







# **Maximum Power Spectral Density**





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