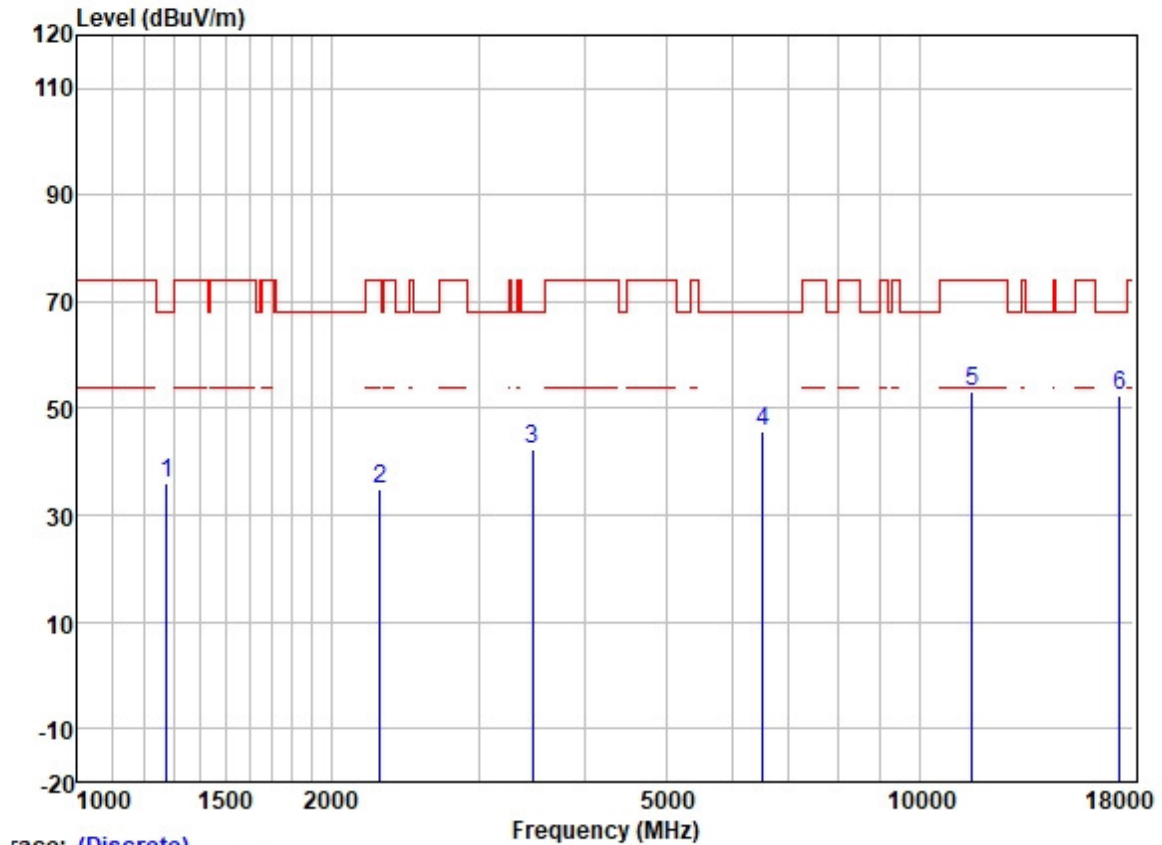


Test Mode: 06; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 80MHz; Channel: middle



Trace: (Discrete)

|   | Freq      | Read  | Antenna | Cable | Preamp | Limit  | Over   |           |               |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
|   | MHz       | Level | Factor  | Loss  | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz       | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 1276.239  | 46.60 | 25.12   | 2.48  | 38.33  | 35.87  | 68.20  | -32.33    | VERTICAL Peak |
| 2 | 2285.344  | 42.26 | 27.06   | 3.29  | 37.63  | 34.98  | 74.00  | -39.02    | VERTICAL Peak |
| 3 | 3473.100  | 46.11 | 28.89   | 4.25  | 36.95  | 42.30  | 68.20  | -25.90    | VERTICAL Peak |
| 4 | 6511.409  | 42.93 | 34.00   | 5.84  | 37.01  | 45.76  | 68.20  | -22.44    | VERTICAL Peak |
| 5 | 11550.000 | 42.06 | 39.84   | 8.40  | 37.14  | 53.16  | 74.00  | -20.84    | VERTICAL Peak |
| 6 | 17325.000 | 34.12 | 43.40   | 10.39 | 35.32  | 52.59  | 68.20  | -15.61    | VERTICAL Peak |

**7.9 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; E 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

| 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                            |

\*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(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.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

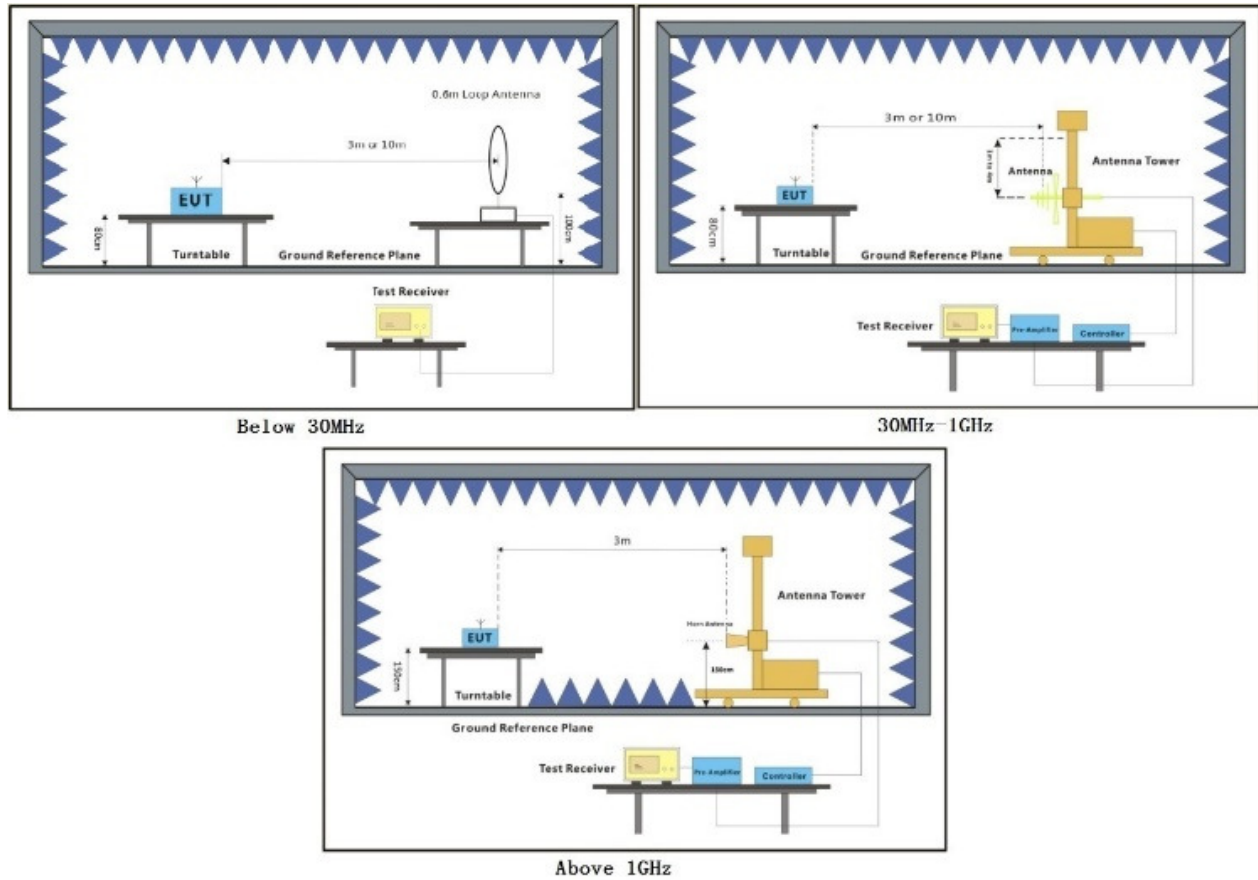
Humidity: 53.9 % RH

Atmospheric Pressure: 1010 mbar

### 7.9.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description  |
|--------------------------|--------------|--|
| Final test               | 06           | TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80). Only the data of worst case is recorded in the report.                       |
| Pre-scan                 | 07           | Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80). Only the data of worst case is recorded in the report. |

### 7.9.3 Test Setup Diagram





#### 7.9.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark2:

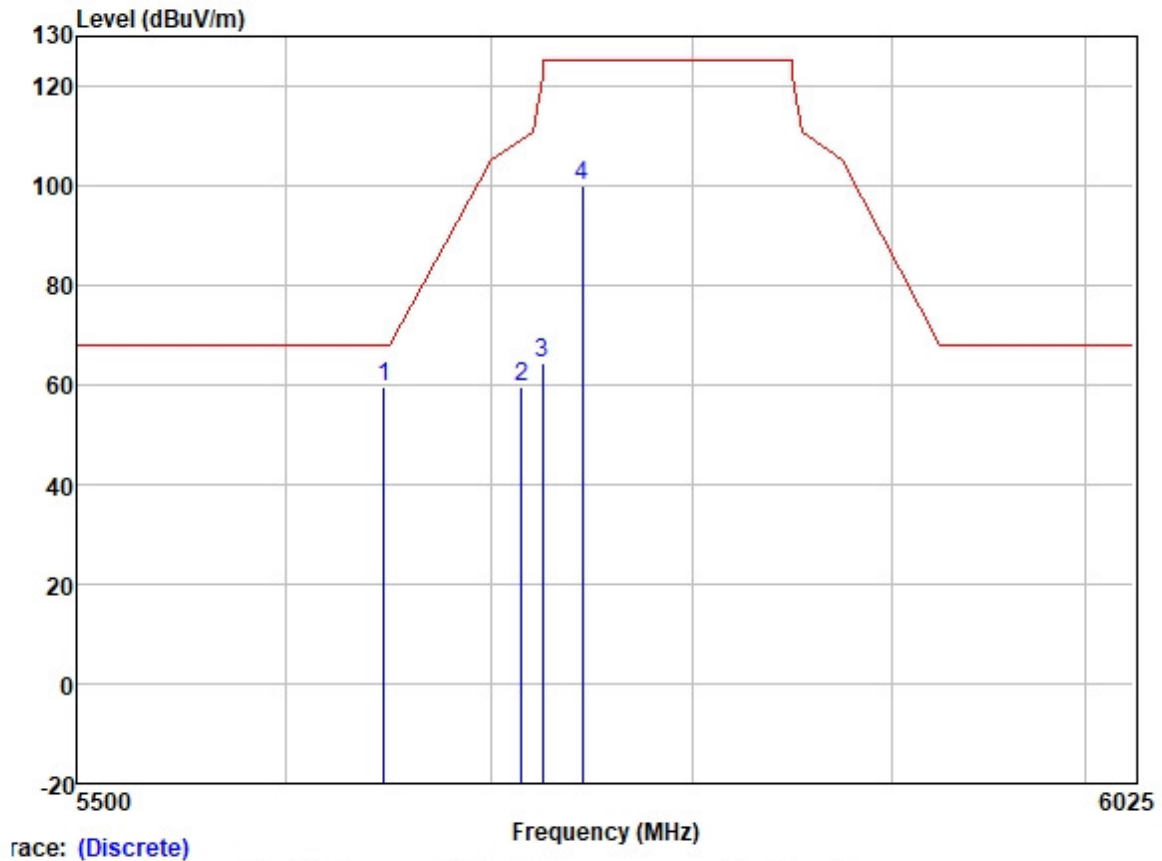
Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the MIMO mode is the worst-case mode. only record the worst-case test data in this report.



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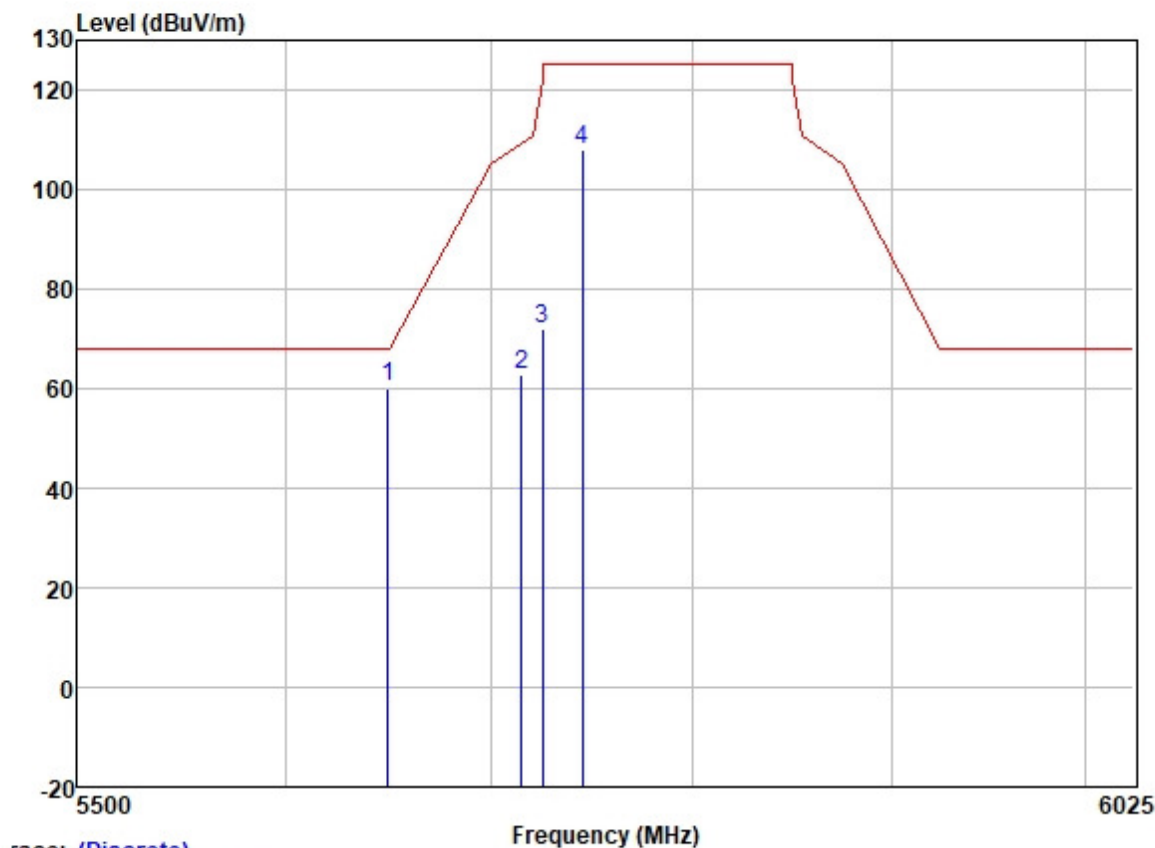
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



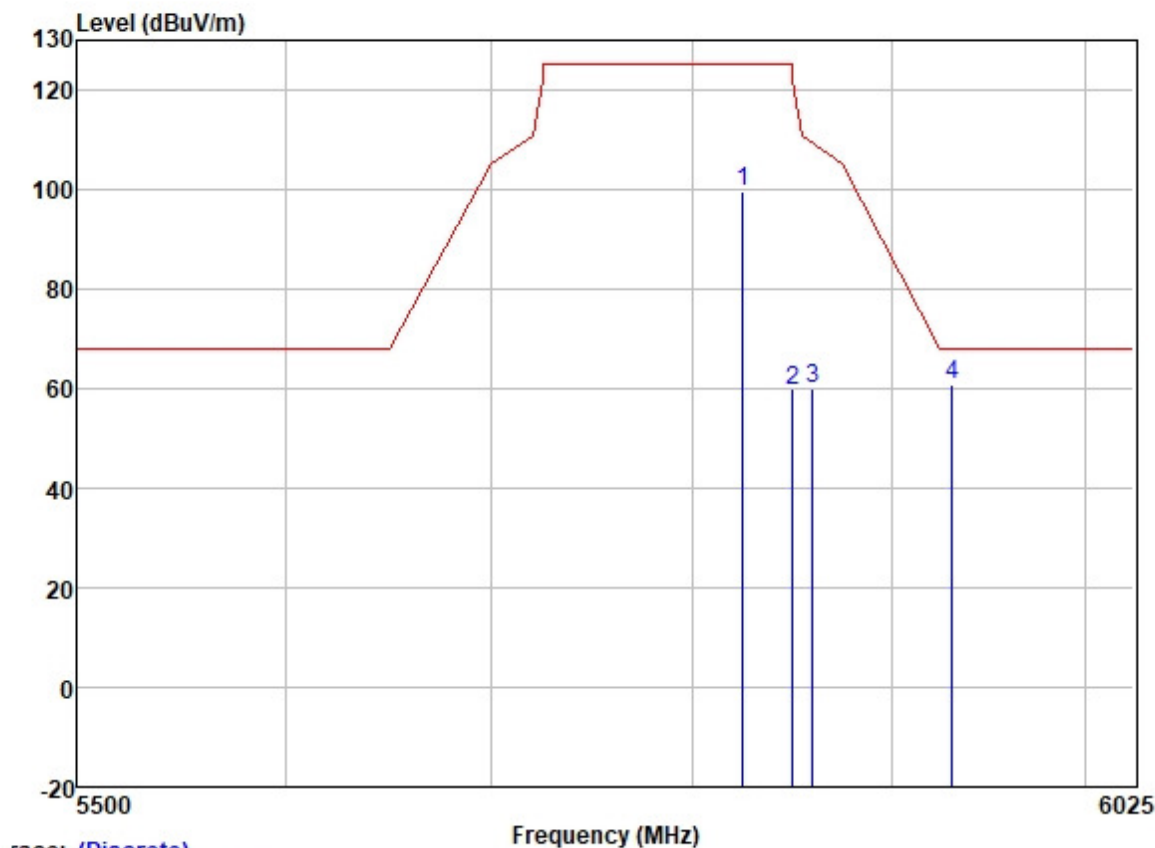
|   |          | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq     | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5647.334 | 58.36       | 31.95  | 6.35  | 36.89  | 59.77  | 68.20  | -8.43  | HORIZONTAL | Peak   |
| 2 | 5715.000 | 58.13       | 32.04  | 6.33  | 36.89  | 59.61  | 109.40 | -49.79 | HORIZONTAL | Peak   |
| 3 | 5725.000 | 63.10       | 32.07  | 6.25  | 36.89  | 64.53  | 122.20 | -57.67 | HORIZONTAL | Peak   |
| 4 | 5745.000 | 98.51       | 32.10  | 6.20  | 36.89  | 99.92  | 125.20 | -25.28 | HORIZONTAL | Peak   |

Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



|   |          | Read   | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|----------|--------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq     | Level  | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz      | dBuV   | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 5649.550 | 58.79  | 31.95   | 6.35  | 36.89  | 60.20  | 68.20  | -8.00  | VERTICAL  | Peak   |
| 2 | 5715.000 | 61.18  | 32.04   | 6.33  | 36.89  | 62.66  | 109.40 | -46.74 | VERTICAL  | Peak   |
| 3 | 5725.000 | 70.61  | 32.07   | 6.25  | 36.89  | 72.04  | 122.20 | -50.16 | VERTICAL  | Peak   |
| 4 | 5745.000 | 106.49 | 32.10   | 6.20  | 36.89  | 107.90 | 125.20 | -17.30 | VERTICAL  | Peak   |

Test Mode: 06; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High

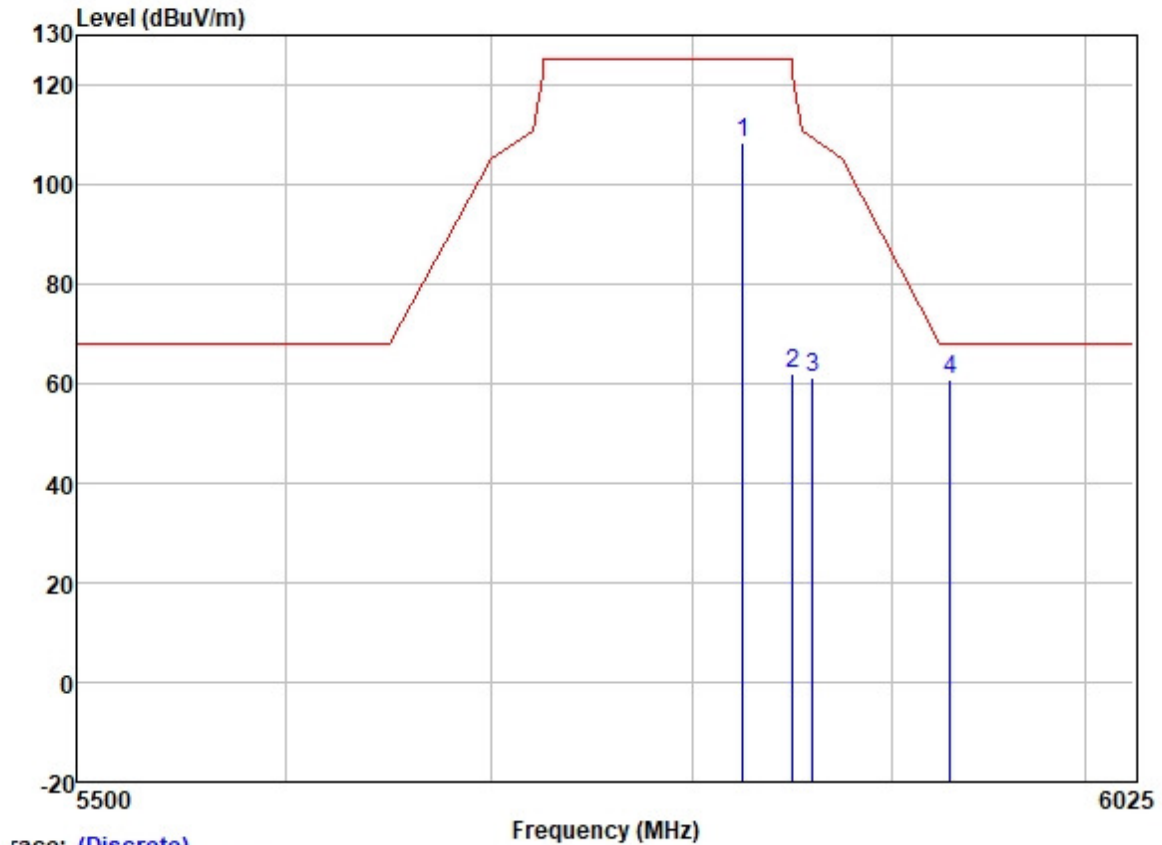


Trace: (Discrete)

|   | Freq     | ReadAntenna<br>Level | Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit<br>Line | Over<br>Limit | Pol/Phase  | Remark |
|---|----------|----------------------|--------|---------------|------------------|--------|---------------|---------------|------------|--------|
|   | MHz      | dBuV                 | dB/m   | dB            | dB               | dBuV/m | dBuV/m        | dB            |            |        |
| 1 | 5825.000 | 98.34                | 32.23  | 6.04          | 36.90            | 99.71  | 125.20        | -25.49        | HORIZONTAL | Peak   |
| 2 | 5850.000 | 58.45                | 32.25  | 6.00          | 36.90            | 59.80  | 122.20        | -62.40        | HORIZONTAL | Peak   |
| 3 | 5860.000 | 58.75                | 32.27  | 5.96          | 36.90            | 60.08  | 109.40        | -49.32        | HORIZONTAL | Peak   |
| 4 | 5931.195 | 59.46                | 32.34  | 6.00          | 36.90            | 60.90  | 68.20         | -7.30         | HORIZONTAL | Peak   |



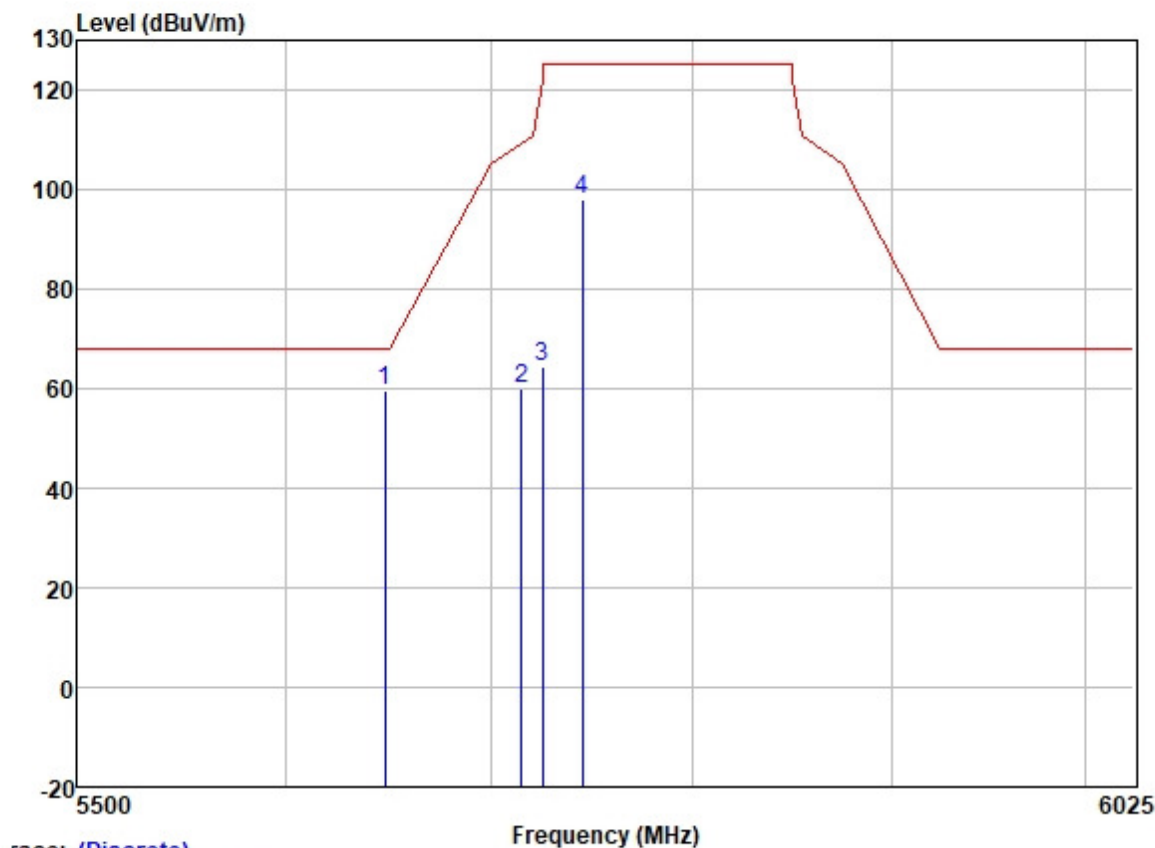
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

|   |          | Read   | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|----------|--------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq     | Level  | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz      | dBuV   | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 5825.000 | 106.90 | 32.23   | 6.04  | 36.90  | 108.27 | 125.20 | -16.93 | VERTICAL  | Peak   |
| 2 | 5850.000 | 60.51  | 32.25   | 6.00  | 36.90  | 61.86  | 122.20 | -60.34 | VERTICAL  | Peak   |
| 3 | 5860.000 | 59.70  | 32.27   | 5.96  | 36.90  | 61.03  | 109.40 | -48.37 | VERTICAL  | Peak   |
| 4 | 5929.942 | 59.50  | 32.34   | 6.00  | 36.90  | 60.94  | 68.20  | -7.26  | VERTICAL  | Peak   |

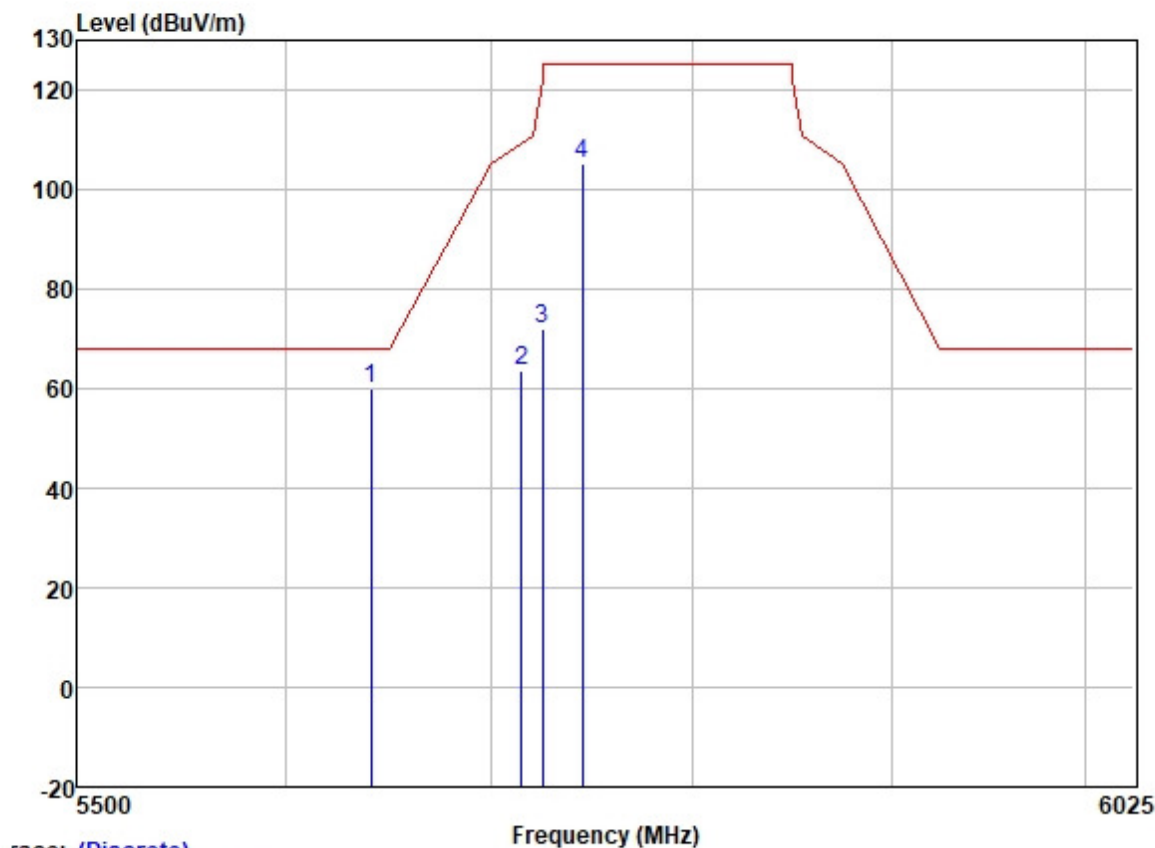
Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

|      | Read     | Antenna | Cable | Preamp |        | Limit  | Over   |           |                 |
|------|----------|---------|-------|--------|--------|--------|--------|-----------|-----------------|
| Freq | Level    | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark          |
| MHz  | dBuV     | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |                 |
| 1    | 5647.888 | 58.34   | 31.95 | 6.35   | 36.89  | 59.75  | 68.20  | -8.45     | HORIZONTAL Peak |
| 2    | 5715.000 | 58.54   | 32.04 | 6.33   | 36.89  | 60.02  | 109.40 | -49.38    | HORIZONTAL Peak |
| 3    | 5725.000 | 63.09   | 32.07 | 6.25   | 36.89  | 64.52  | 122.20 | -57.68    | HORIZONTAL Peak |
| 4    | 5745.000 | 96.55   | 32.10 | 6.20   | 36.89  | 97.96  | 125.20 | -27.24    | HORIZONTAL Peak |

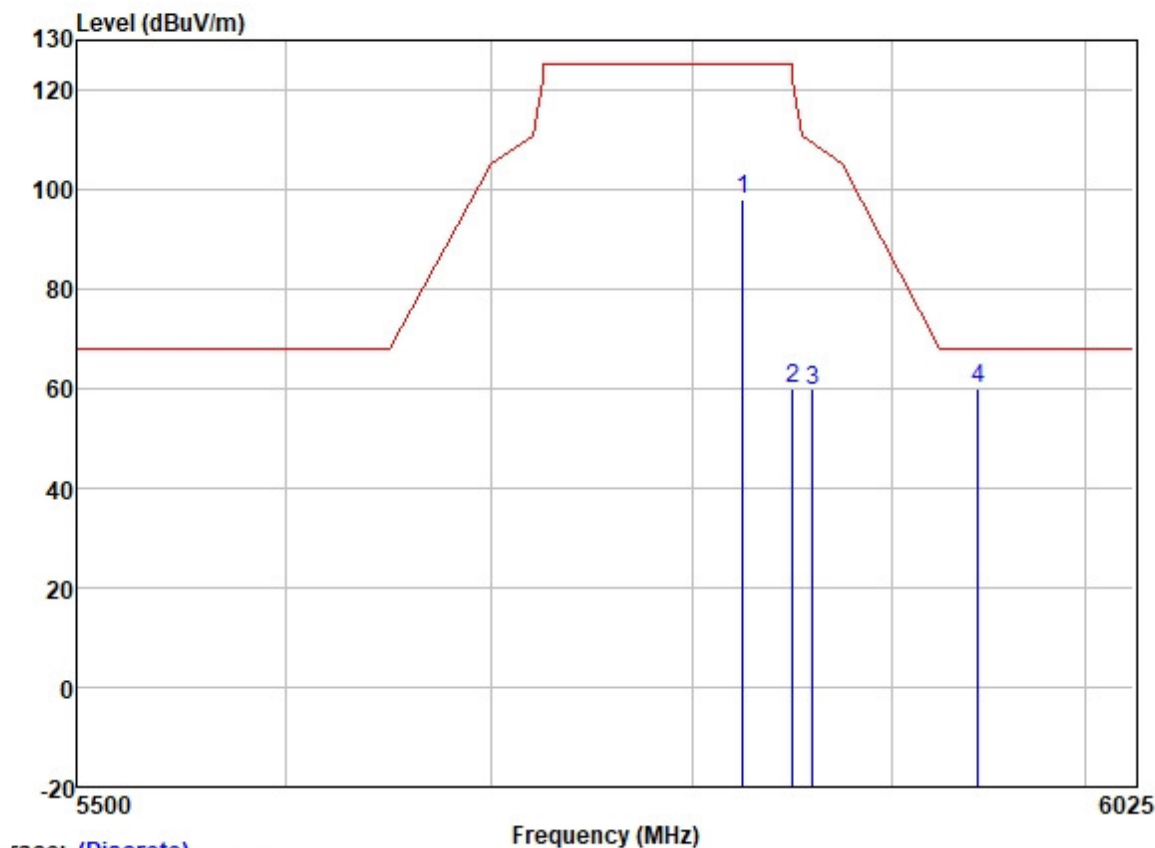
Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|   |          | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 5641.106 | 58.58       | 31.95  | 6.35   | 36.89  | 59.99  | 68.20  | -8.21  | VERTICAL  | Peak   |
| 2 | 5715.000 | 61.93       | 32.04  | 6.33   | 36.89  | 63.41  | 109.40 | -45.99 | VERTICAL  | Peak   |
| 3 | 5725.000 | 70.77       | 32.07  | 6.25   | 36.89  | 72.20  | 122.20 | -50.00 | VERTICAL  | Peak   |
| 4 | 5745.000 | 103.86      | 32.10  | 6.20   | 36.89  | 105.27 | 125.20 | -19.93 | VERTICAL  | Peak   |

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

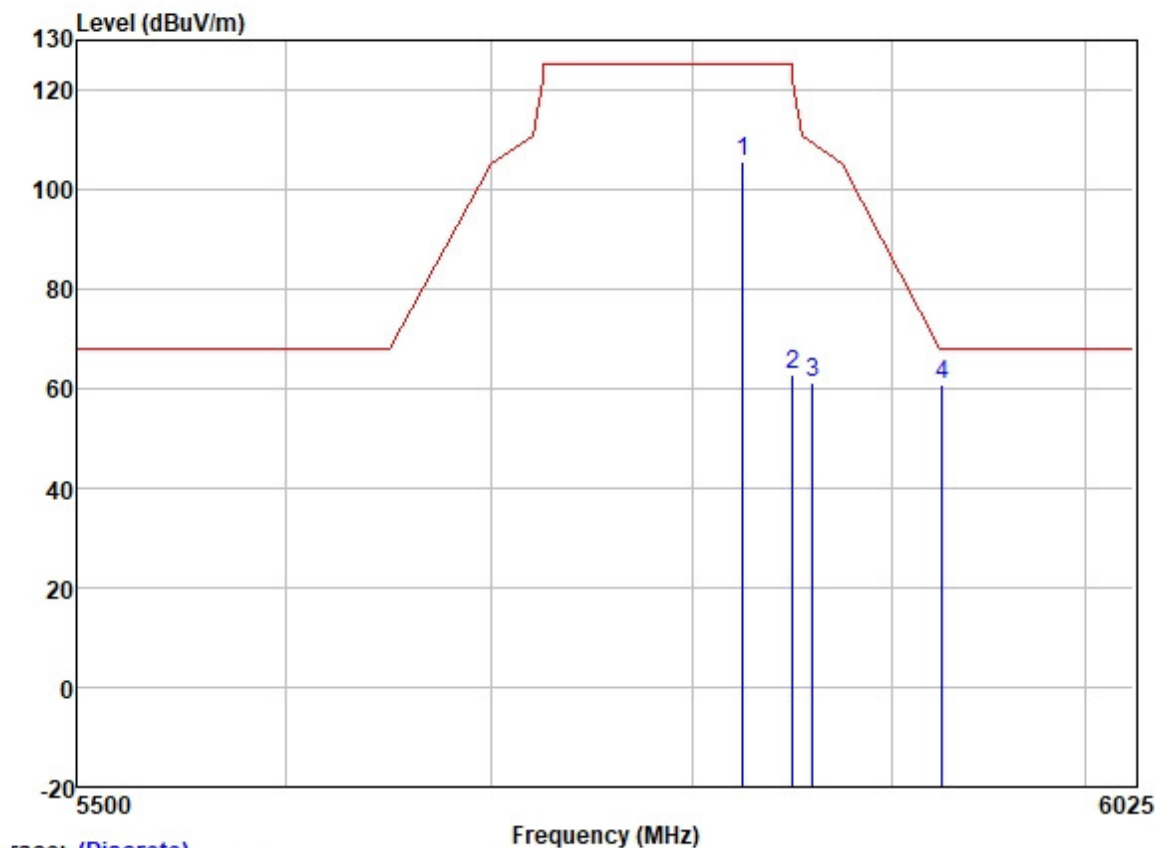


Trace: (Discrete)

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit Line | Over Limit | Pol/Phase  | Remark |
|---|----------|------------|----------------|------------|---------------|--------|------------|------------|------------|--------|
|   | MHz      | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m     | dB         |            |        |
| 1 | 5825.000 | 96.74      | 32.23          | 6.04       | 36.90         | 98.11  | 125.20     | -27.09     | HORIZONTAL | Peak   |
| 2 | 5850.000 | 58.49      | 32.25          | 6.00       | 36.90         | 59.84  | 122.20     | -62.36     | HORIZONTAL | Peak   |
| 3 | 5860.000 | 58.47      | 32.27          | 5.96       | 36.90         | 59.80  | 109.40     | -49.60     | HORIZONTAL | Peak   |
| 4 | 5944.529 | 58.68      | 32.36          | 6.05       | 36.90         | 60.19  | 68.20      | -8.01      | HORIZONTAL | Peak   |



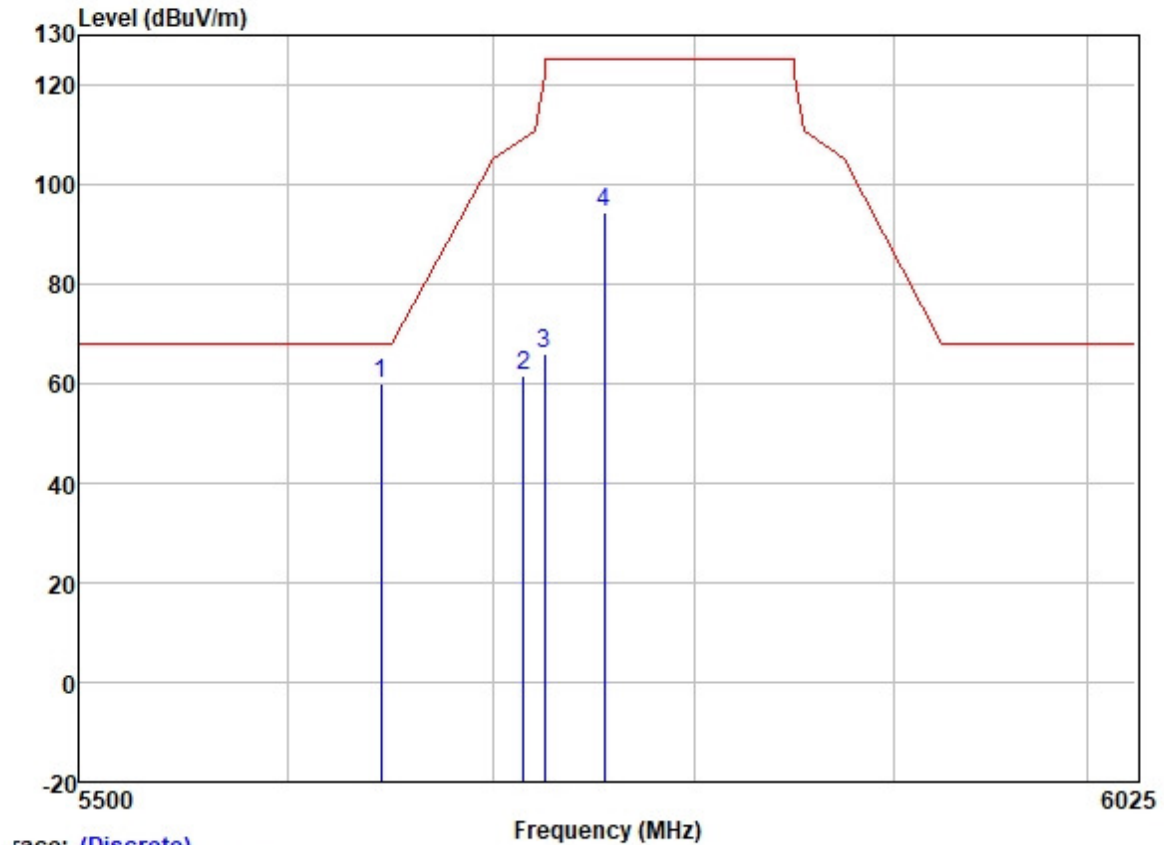
Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

|      | Read     | Antenna | Cable | Preamp |        | Limit  | Over   |           |               |
|------|----------|---------|-------|--------|--------|--------|--------|-----------|---------------|
| Freq | Level    | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark        |
| MHz  | dBuV     | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |               |
| 1    | 5825.000 | 104.22  | 32.23 | 6.04   | 36.90  | 105.59 | 125.20 | -19.61    | VERTICAL Peak |
| 2    | 5850.000 | 61.47   | 32.25 | 6.00   | 36.90  | 62.82  | 122.20 | -59.38    | VERTICAL Peak |
| 3    | 5860.000 | 59.82   | 32.27 | 5.96   | 36.90  | 61.15  | 109.40 | -48.25    | VERTICAL Peak |
| 4    | 5926.340 | 59.44   | 32.34 | 6.00   | 36.90  | 60.88  | 68.20  | -7.32     | VERTICAL Peak |

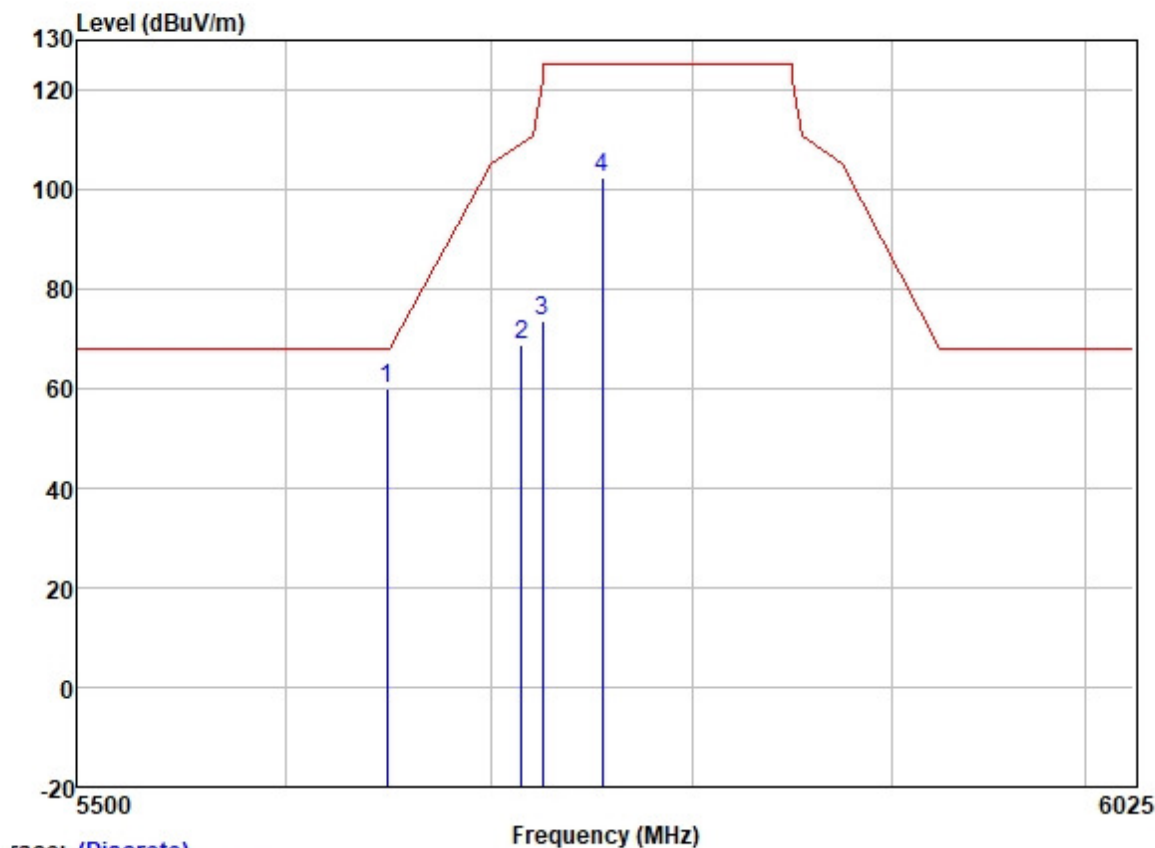
Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

|   |          | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq     | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5644.742 | 58.59       | 31.95  | 6.35  | 36.89  | 60.00  | 68.20  | -8.20  | HORIZONTAL | Peak   |
| 2 | 5715.000 | 60.16       | 32.04  | 6.33  | 36.89  | 61.64  | 109.40 | -47.76 | HORIZONTAL | Peak   |
| 3 | 5725.000 | 64.64       | 32.07  | 6.25  | 36.89  | 66.07  | 122.20 | -56.13 | HORIZONTAL | Peak   |
| 4 | 5755.000 | 93.06       | 32.10  | 6.20  | 36.89  | 94.47  | 125.20 | -30.73 | HORIZONTAL | Peak   |

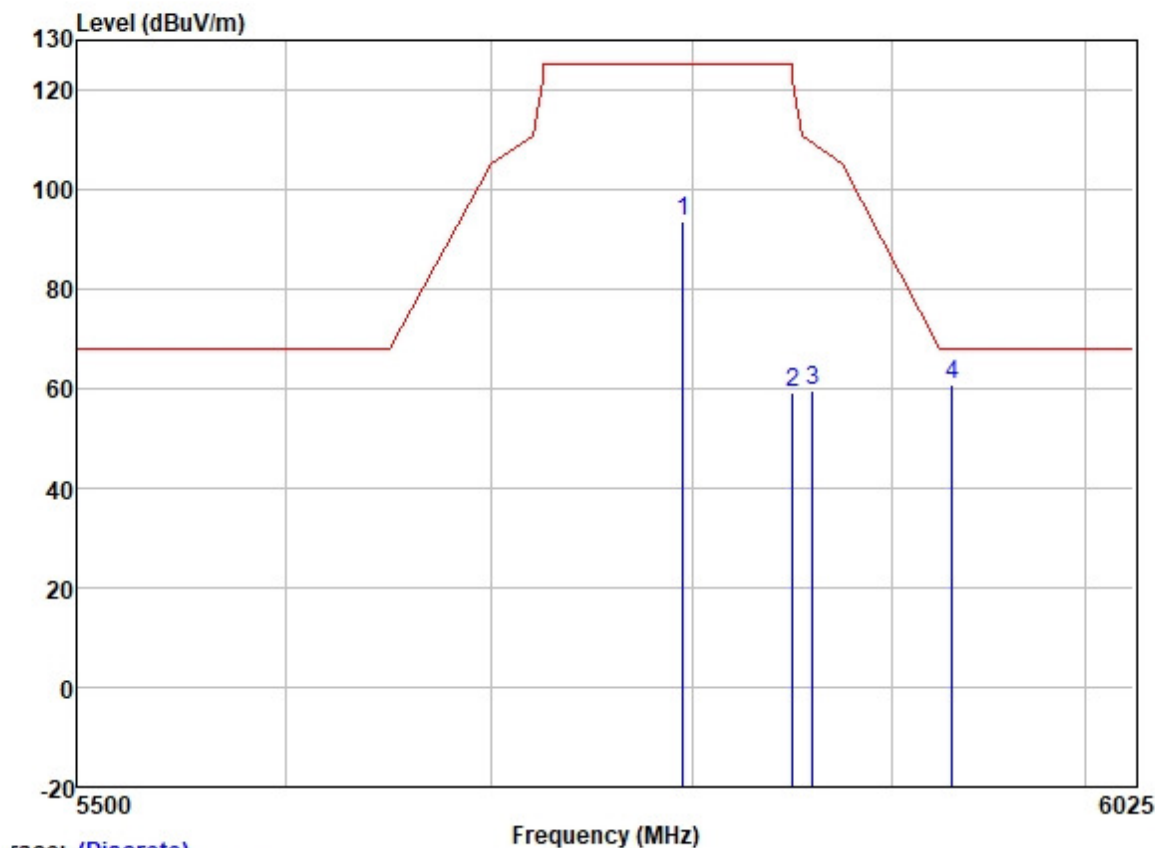
Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark        |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|---------------|
|   | MHz       | dBuV          | dB/m         | dB          | dB            | dBuV/m      | dBuV/m     | dB        |               |
| 1 | 5649.029  | 58.53         | 31.95        | 6.35        | 36.89         | 59.94       | 68.20      | -8.26     | VERTICAL Peak |
| 2 | 5715.000  | 67.15         | 32.04        | 6.33        | 36.89         | 68.63       | 109.40     | -40.77    | VERTICAL Peak |
| 3 | 5725.000  | 72.26         | 32.07        | 6.25        | 36.89         | 73.69       | 122.20     | -48.51    | VERTICAL Peak |
| 4 | 5755.000  | 100.90        | 32.10        | 6.20        | 36.89         | 102.31      | 125.20     | -22.89    | VERTICAL Peak |

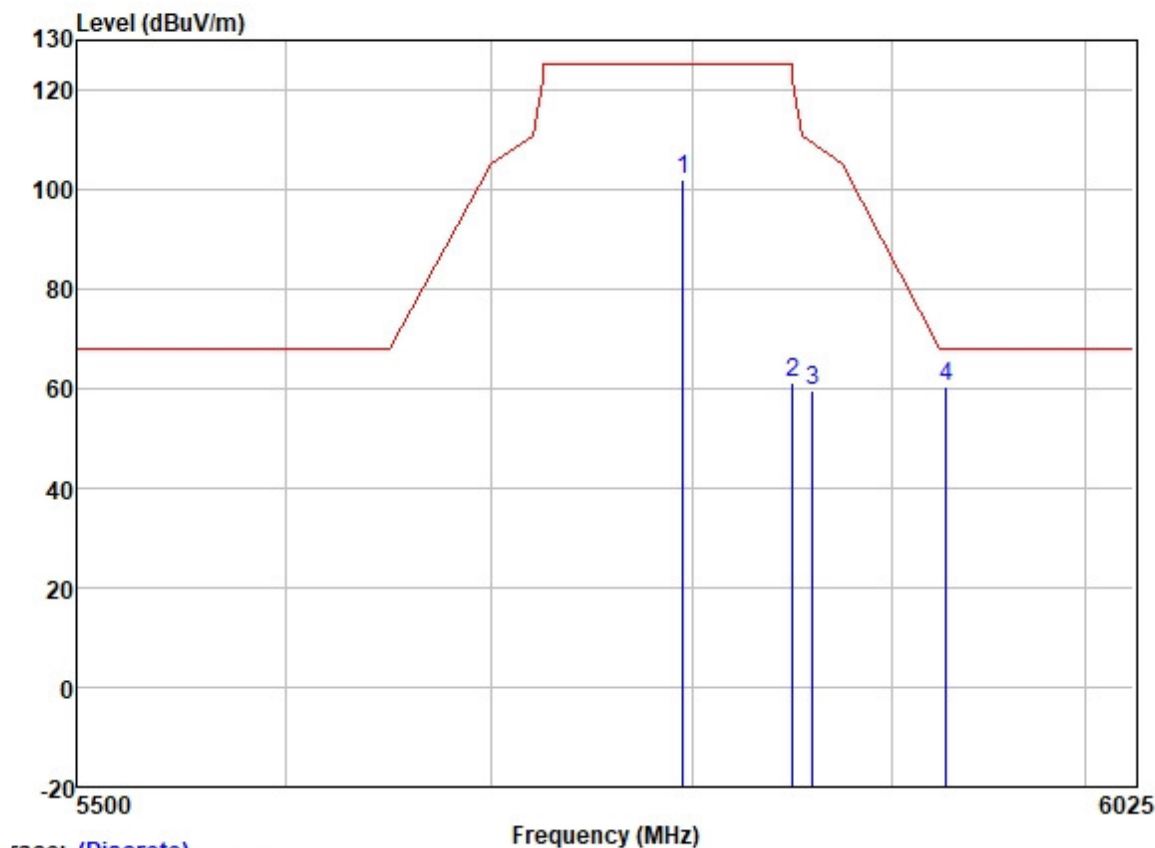
Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   |          | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5795.000 | 92.38       | 32.19  | 6.10   | 36.89  | 93.78  | 125.20 | -31.42 | HORIZONTAL | Peak   |
| 2 | 5850.000 | 57.68       | 32.25  | 6.00   | 36.90  | 59.03  | 122.20 | -63.17 | HORIZONTAL | Peak   |
| 3 | 5860.000 | 58.14       | 32.27  | 5.96   | 36.90  | 59.47  | 109.40 | -49.93 | HORIZONTAL | Peak   |
| 4 | 5930.979 | 59.31       | 32.34  | 6.00   | 36.90  | 60.75  | 68.20  | -7.45  | HORIZONTAL | Peak   |



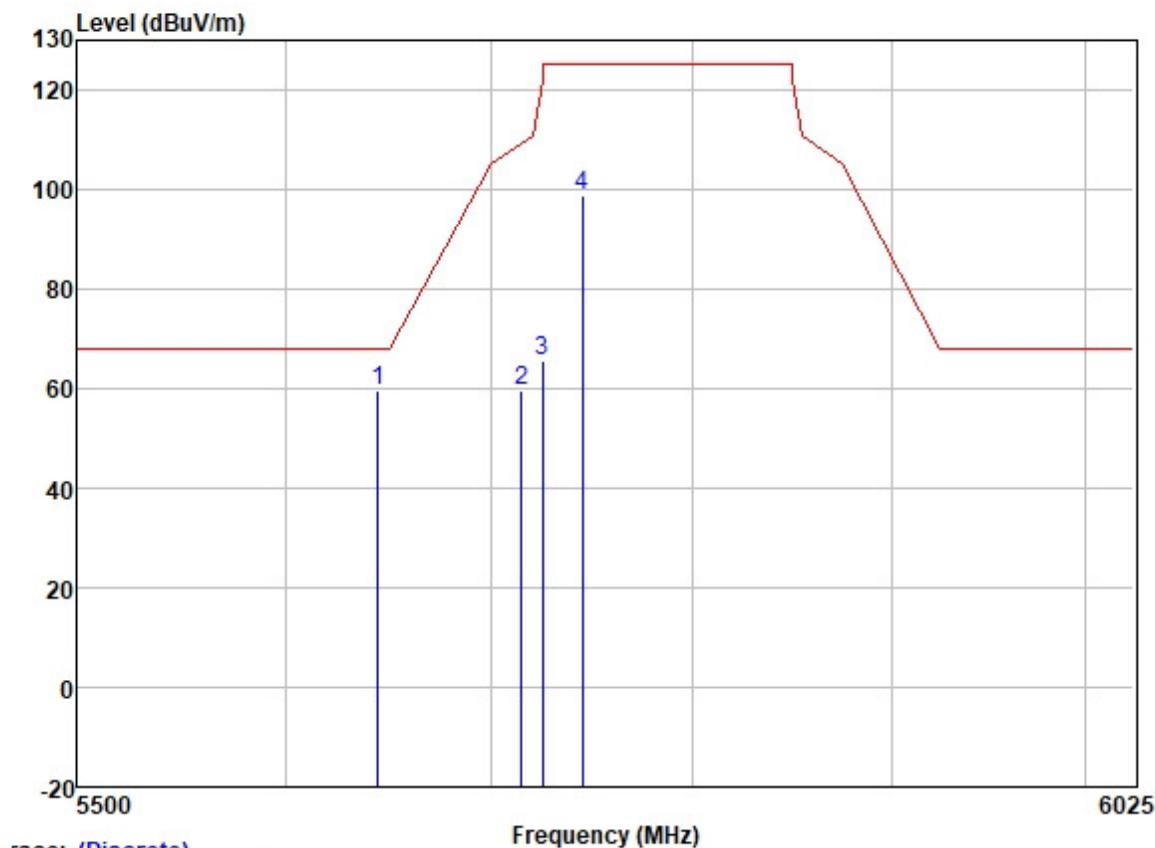
Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

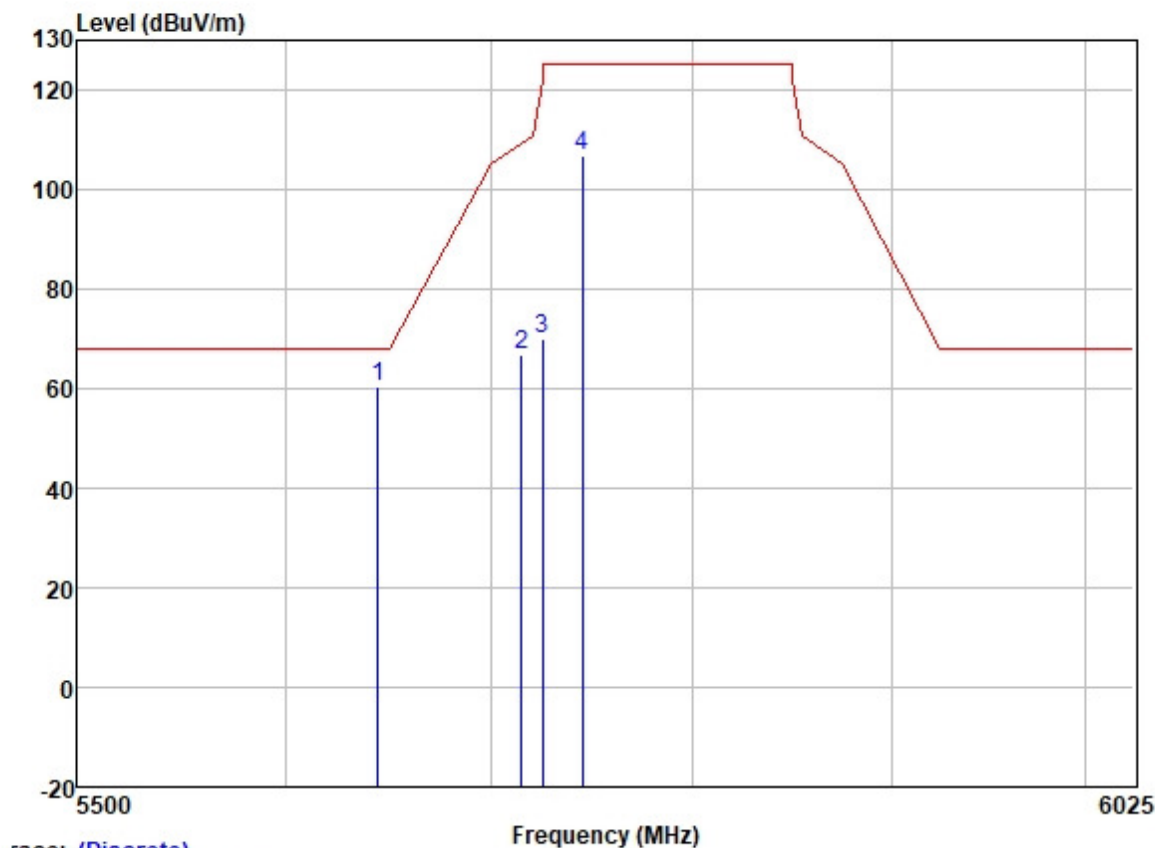
|   | Read Freq | Antenna Level | Antenna Factor | Cable Loss | Preamplifier Factor | Limit Level | Over Limit | Pol/Phase | Remark        |
|---|-----------|---------------|----------------|------------|---------------------|-------------|------------|-----------|---------------|
|   | MHz       | dBuV          | dB/m           | dB         | dB                  | dBuV/m      | dBuV/m     | dB        |               |
| 1 | 5795.000  | 100.76        | 32.19          | 6.10       | 36.89               | 102.16      | 125.20     | -23.04    | VERTICAL Peak |
| 2 | 5850.000  | 59.83         | 32.25          | 6.00       | 36.90               | 61.18       | 122.20     | -61.02    | VERTICAL Peak |
| 3 | 5860.000  | 58.11         | 32.27          | 5.96       | 36.90               | 59.44       | 109.40     | -49.96    | VERTICAL Peak |
| 4 | 5928.138  | 58.82         | 32.34          | 6.00       | 36.90               | 60.26       | 68.20      | -7.94     | VERTICAL Peak |

Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



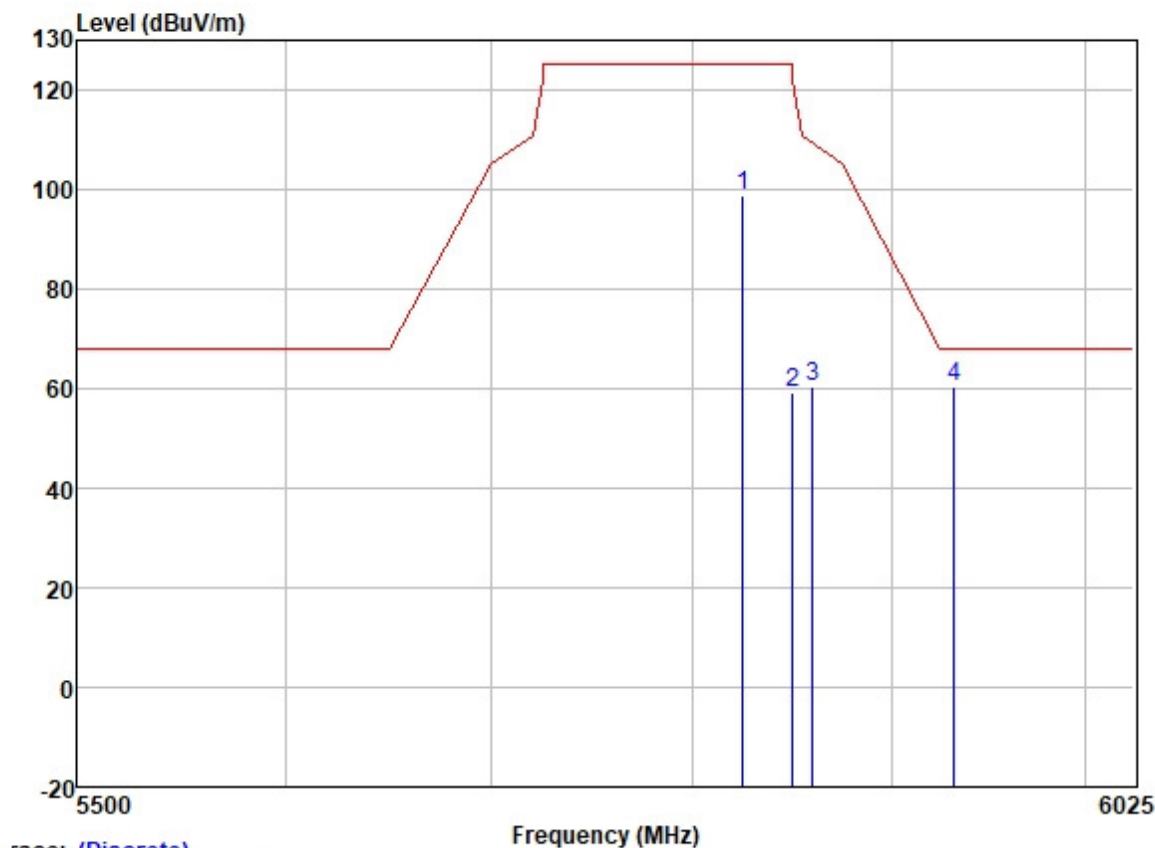
|   | Freq     | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |            |        |
|---|----------|-------------|--------|--------|--------|--------|--------|--------|------------|--------|
|   |          | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5644.289 | 58.20       | 31.95  | 6.35   | 36.89  | 59.61  | 68.20  | -8.59  | HORIZONTAL | Peak   |
| 2 | 5715.000 | 57.99       | 32.04  | 6.33   | 36.89  | 59.47  | 109.40 | -49.93 | HORIZONTAL | Peak   |
| 3 | 5725.000 | 64.30       | 32.07  | 6.25   | 36.89  | 65.73  | 122.20 | -56.47 | HORIZONTAL | Peak   |
| 4 | 5745.000 | 97.46       | 32.10  | 6.20   | 36.89  | 98.87  | 125.20 | -26.33 | HORIZONTAL | Peak   |

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



|   | Freq     | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Level | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark        |
|---|----------|-----------------------------|---------------|------------------|-------|---------------|---------------|-----------|---------------|
|   | MHz      | dBuV                        | dB/m          | dB               | dB    | dBuV/m        | dBuV/m        | dB        |               |
| 1 | 5644.704 | 59.08                       | 31.95         | 6.35             | 36.89 | 60.49         | 68.20         | -7.71     | VERTICAL Peak |
| 2 | 5715.000 | 65.34                       | 32.04         | 6.33             | 36.89 | 66.82         | 109.40        | -42.58    | VERTICAL Peak |
| 3 | 5725.000 | 68.61                       | 32.07         | 6.25             | 36.89 | 70.04         | 122.20        | -52.16    | VERTICAL Peak |
| 4 | 5745.000 | 105.45                      | 32.10         | 6.20             | 36.89 | 106.86        | 125.20        | -18.34    | VERTICAL Peak |

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

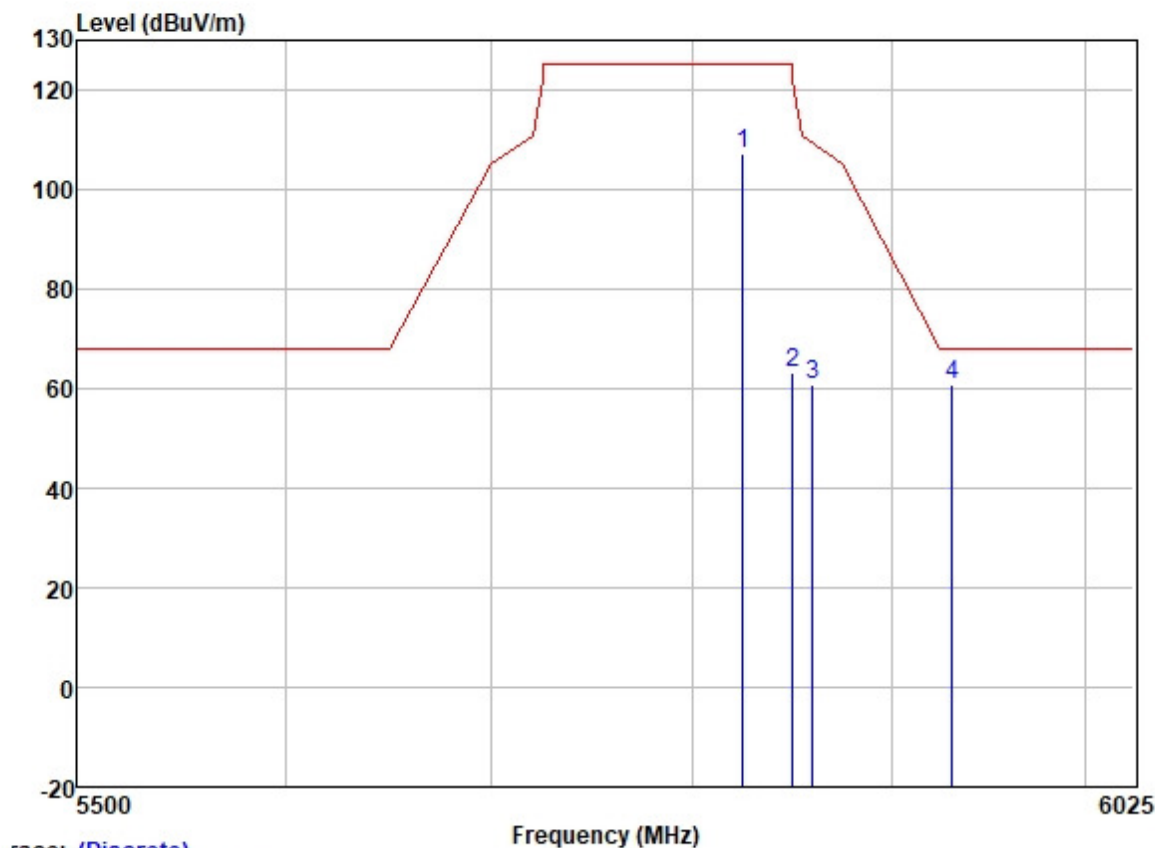


Trace: (Discrete)

|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit Line | Over Limit | Pol/Phase  | Remark |
|---|----------|------------|----------------|------------|---------------|--------|------------|------------|------------|--------|
|   | MHz      | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m     | dB         |            |        |
| 1 | 5825.000 | 97.62      | 32.23          | 6.04       | 36.90         | 98.99  | 125.20     | -26.21     | HORIZONTAL | Peak   |
| 2 | 5850.000 | 57.90      | 32.25          | 6.00       | 36.90         | 59.25  | 122.20     | -62.95     | HORIZONTAL | Peak   |
| 3 | 5860.000 | 59.23      | 32.27          | 5.96       | 36.90         | 60.56  | 109.40     | -48.84     | HORIZONTAL | Peak   |
| 4 | 5932.135 | 58.85      | 32.34          | 6.00       | 36.90         | 60.29  | 68.20      | -7.91      | HORIZONTAL | Peak   |

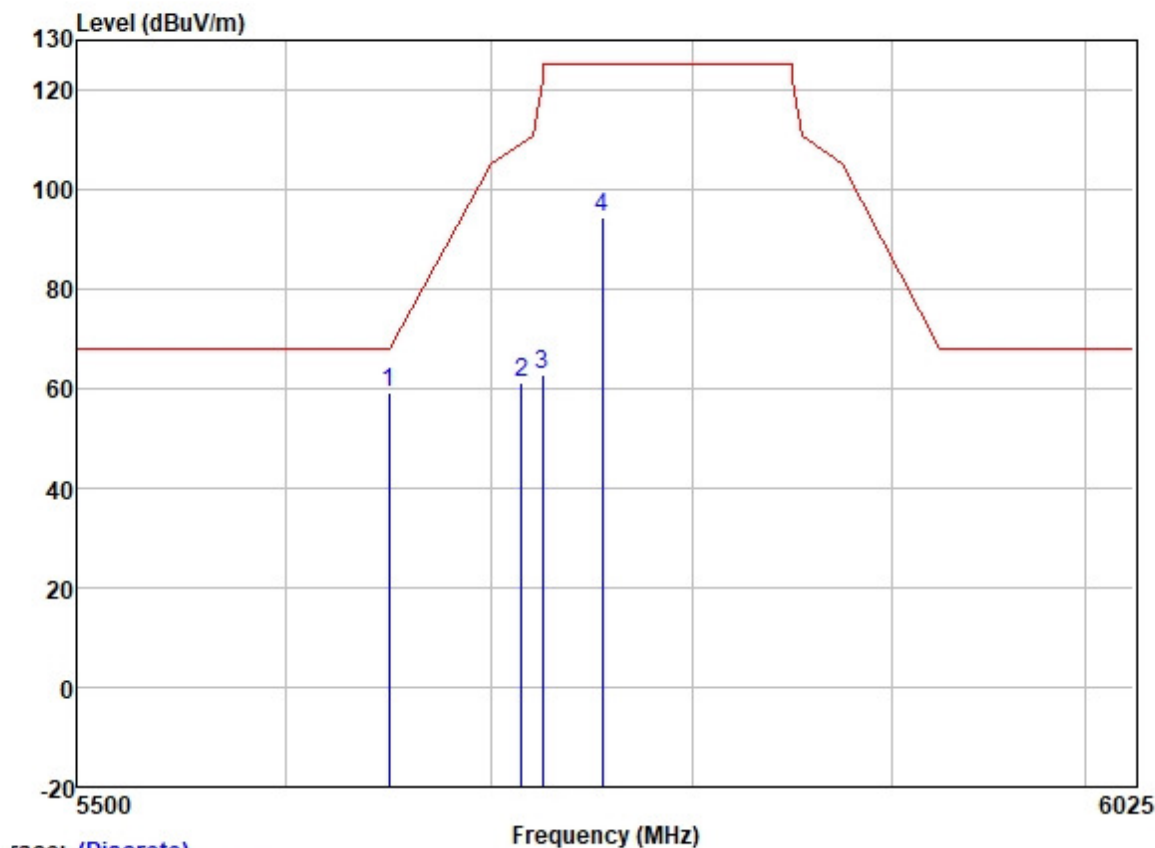


Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



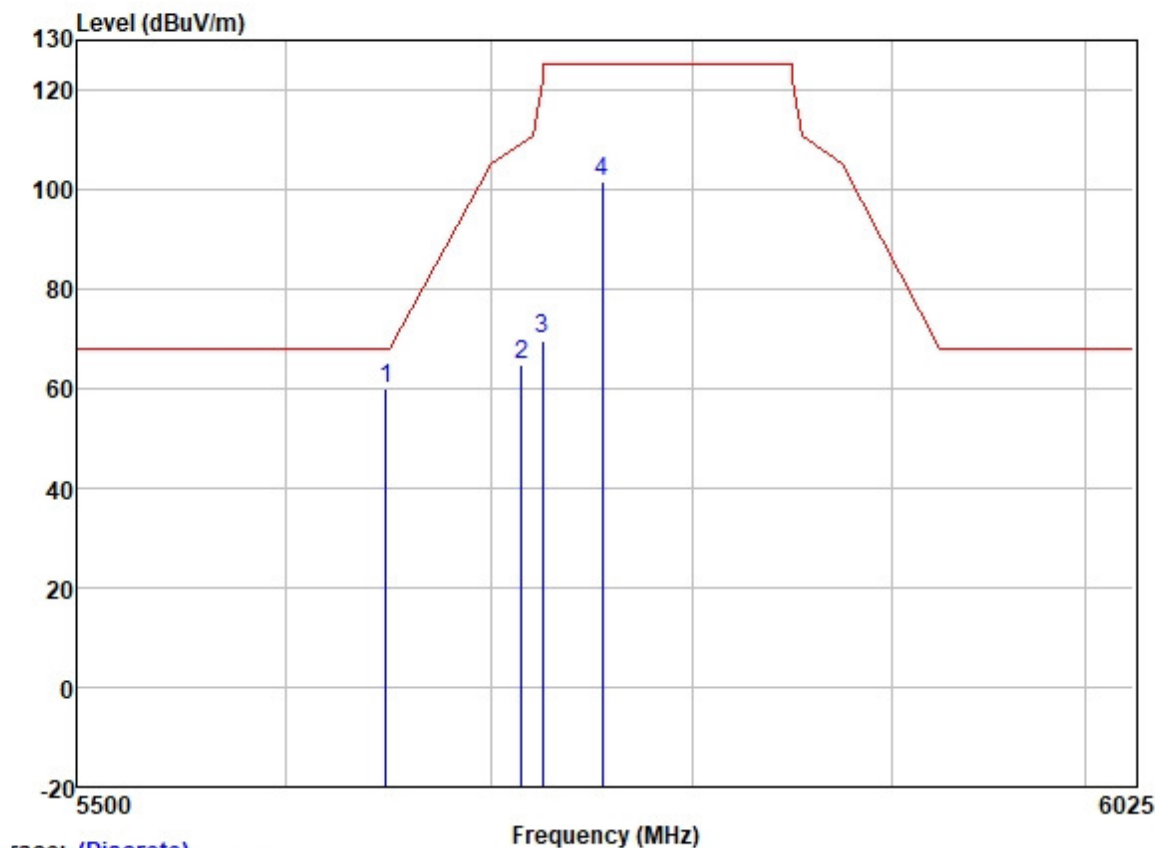
|   | Freq     | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit<br>Line | Over<br>Limit | Pol/Phase | Remark |
|---|----------|---------------|-------------------|---------------|------------------|--------|---------------|---------------|-----------|--------|
|   | MHz      | dBuV          | dB/m              | dB            | dB               | dBuV/m | dBuV/m        | dB            |           |        |
| 1 | 5825.000 | 106.01        | 32.23             | 6.04          | 36.90            | 107.38 | 125.20        | -17.82        | VERTICAL  | Peak   |
| 2 | 5850.000 | 61.78         | 32.25             | 6.00          | 36.90            | 63.13  | 122.20        | -59.07        | VERTICAL  | Peak   |
| 3 | 5860.000 | 59.43         | 32.27             | 5.96          | 36.90            | 60.76  | 109.40        | -48.64        | VERTICAL  | Peak   |
| 4 | 5931.352 | 59.19         | 32.34             | 6.00          | 36.90            | 60.63  | 68.20         | -7.57         | VERTICAL  | Peak   |

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



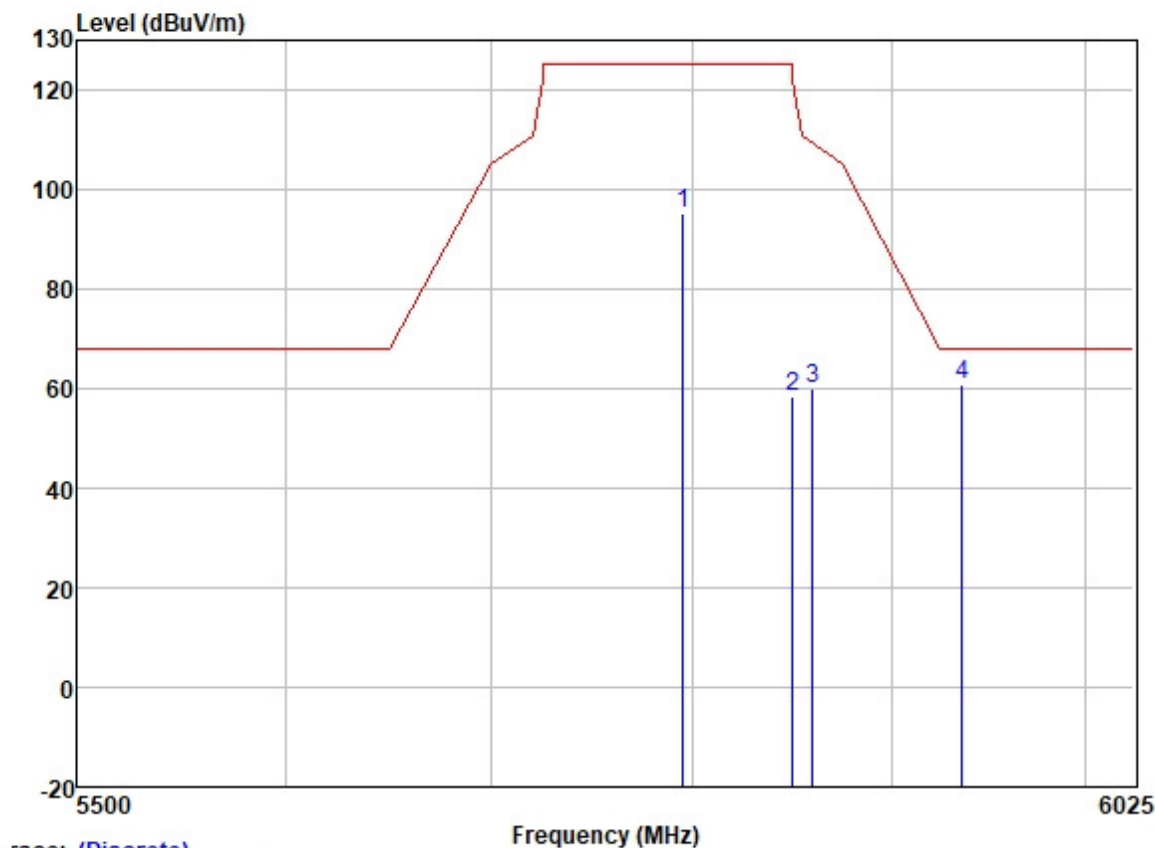
|   |          | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |            |        |
|---|----------|-------|---------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq     | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5649.642 | 57.80 | 31.95   | 6.35  | 36.89  | 59.21  | 68.20  | -8.99  | HORIZONTAL | Peak   |
| 2 | 5715.000 | 59.54 | 32.04   | 6.33  | 36.89  | 61.02  | 109.40 | -48.38 | HORIZONTAL | Peak   |
| 3 | 5725.000 | 61.32 | 32.07   | 6.25  | 36.89  | 62.75  | 122.20 | -59.45 | HORIZONTAL | Peak   |
| 4 | 5755.000 | 93.06 | 32.10   | 6.20  | 36.89  | 94.47  | 125.20 | -30.73 | HORIZONTAL | Peak   |

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



|   |          | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|----------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq     | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz      | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 5648.416 | 58.77 | 31.95   | 6.35  | 36.89  | 60.18  | 68.20  | -8.02  | VERTICAL  | Peak   |
| 2 | 5715.000 | 63.41 | 32.04   | 6.33  | 36.89  | 64.89  | 109.40 | -44.51 | VERTICAL  | Peak   |
| 3 | 5725.000 | 68.37 | 32.07   | 6.25  | 36.89  | 69.80  | 122.20 | -52.40 | VERTICAL  | Peak   |
| 4 | 5755.000 | 99.99 | 32.10   | 6.20  | 36.89  | 101.40 | 125.20 | -23.80 | VERTICAL  | Peak   |

Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

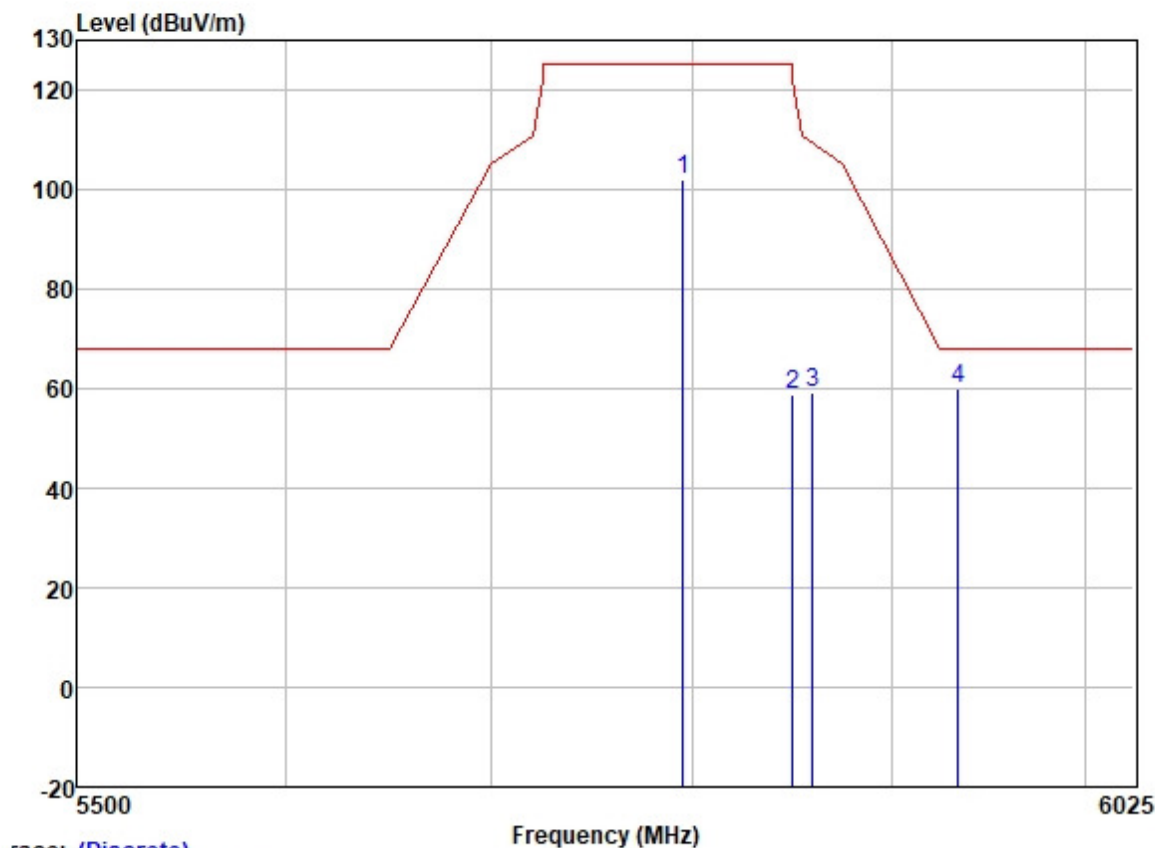


Trace: (Discrete)

|      | Read     | Antenna | Cable | Preamp |        | Limit  | Over   |           |                 |
|------|----------|---------|-------|--------|--------|--------|--------|-----------|-----------------|
| Freq | Level    | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark          |
| MHz  | dBuV     | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |                 |
| 1    | 5795.000 | 93.65   | 32.19 | 6.10   | 36.89  | 95.05  | 125.20 | -30.15    | HORIZONTAL Peak |
| 2    | 5850.000 | 57.09   | 32.25 | 6.00   | 36.90  | 58.44  | 122.20 | -63.76    | HORIZONTAL Peak |
| 3    | 5860.000 | 58.72   | 32.27 | 5.96   | 36.90  | 60.05  | 109.40 | -49.35    | HORIZONTAL Peak |
| 4    | 5936.461 | 59.20   | 32.34 | 6.00   | 36.90  | 60.64  | 68.20  | -7.56     | HORIZONTAL Peak |

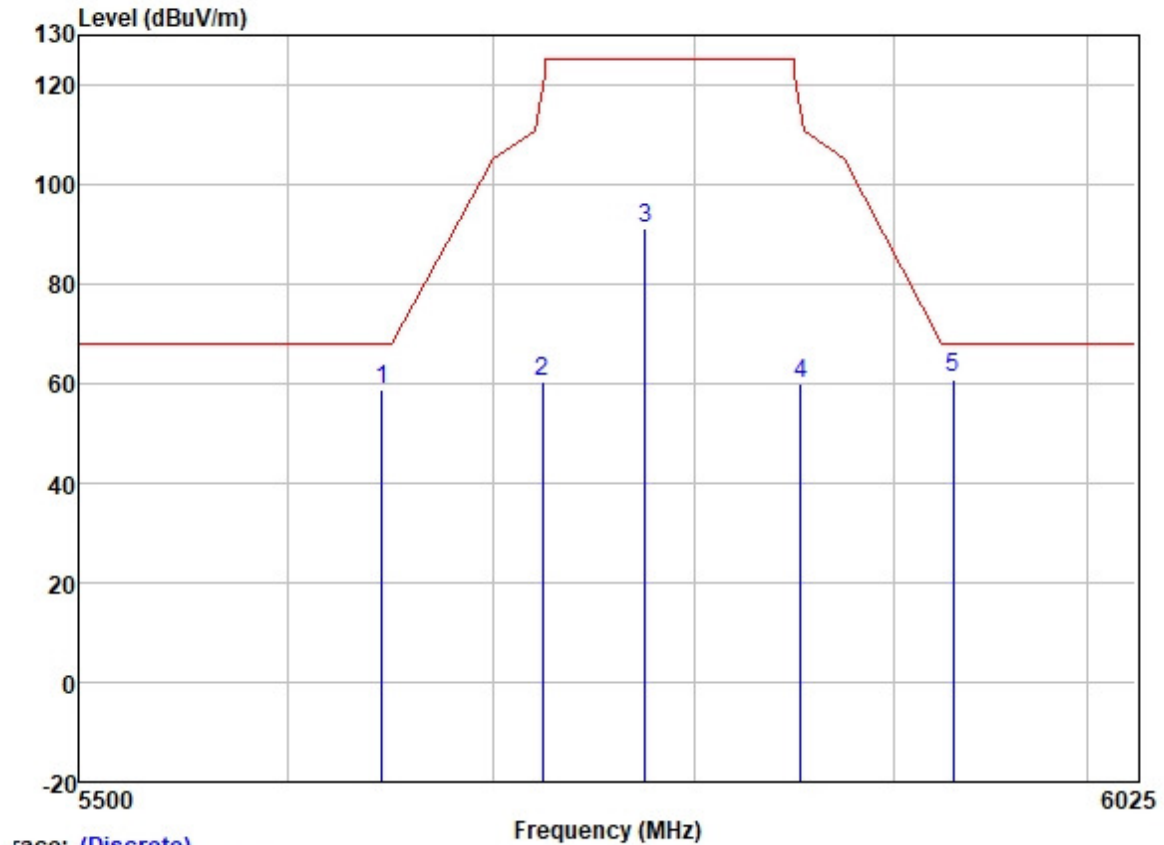


Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



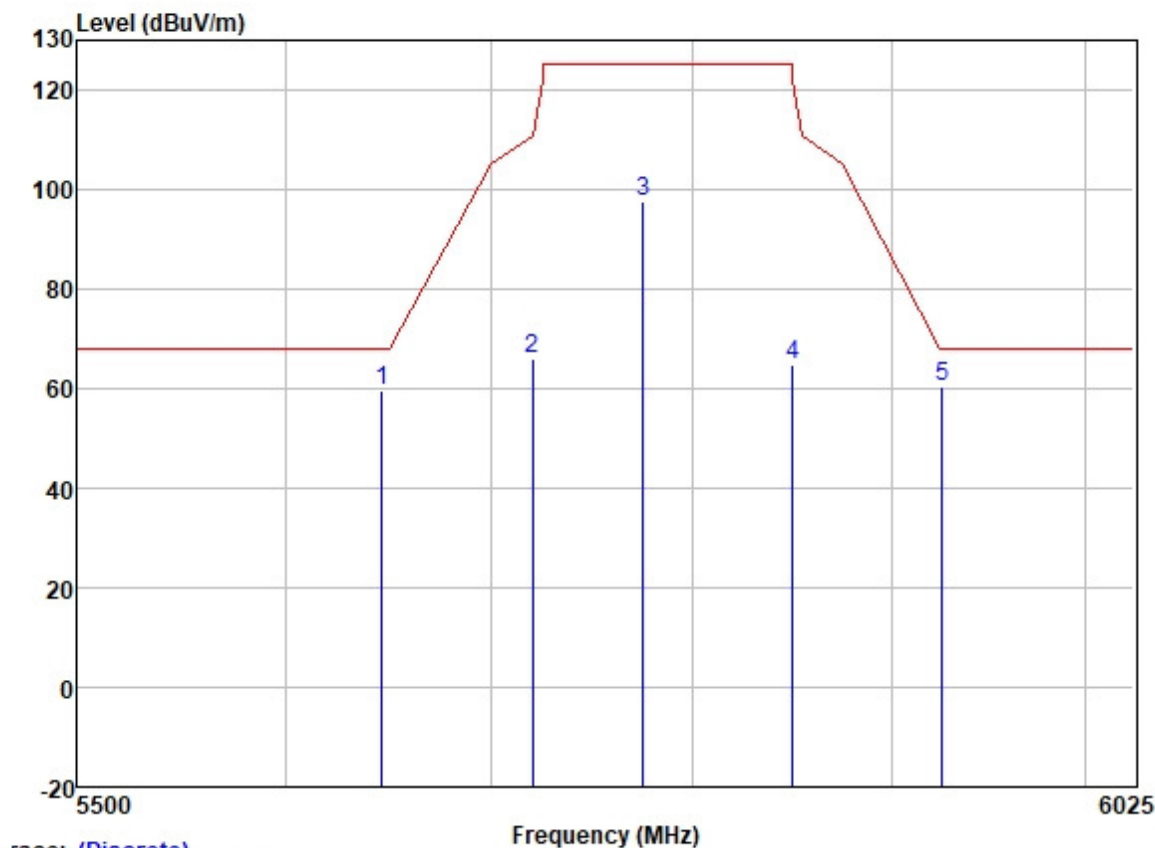
|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Limit Level | Over Limit | Pol/Phase | Remark               |
|---|-----------|---------------|--------------|-------------|-------------|------------|-----------|----------------------|
|   | MHz       | dBuV          | dB/m         | dB          | dBuV/m      | dBuV/m     | dB        |                      |
| 1 | 5795.000  | 100.60        | 32.19        | 6.10        | 36.89       | 102.00     | 125.20    | -23.20 VERTICAL Peak |
| 2 | 5850.000  | 57.43         | 32.25        | 6.00        | 36.90       | 58.78      | 122.20    | -63.42 VERTICAL Peak |
| 3 | 5860.000  | 57.93         | 32.27        | 5.96        | 36.90       | 59.26      | 109.40    | -50.14 VERTICAL Peak |
| 4 | 5934.228  | 58.63         | 32.34        | 6.00        | 36.90       | 60.07      | 68.20     | -8.13 VERTICAL Peak  |

Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



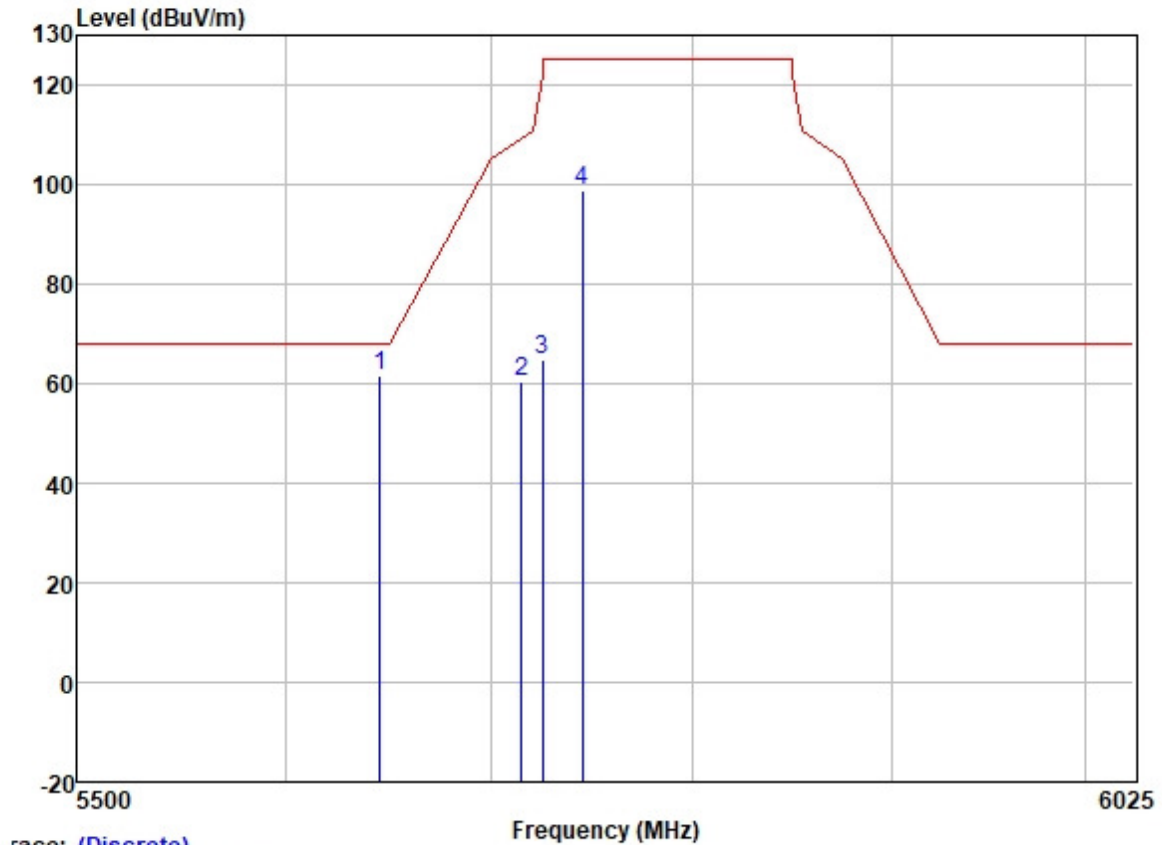
| race: (Discrete) | Frequency (MHz) |             |        |        |        |        |        |           |                 |
|------------------|-----------------|-------------|--------|--------|--------|--------|--------|-----------|-----------------|
|                  | Freq            | ReadAntenna | Cable  | Preamp |        | Limit  | Over   | Pol/Phase | Remark          |
|                  |                 | Level       | Factor | Loss   | Factor | Level  | Line   |           |                 |
|                  | MHz             | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB        |                 |
| 1                | 5645.646        | 57.27       | 31.95  | 6.35   | 36.89  | 58.68  | 68.20  | -9.52     | HORIZONTAL Peak |
| 2                | 5724.390        | 58.90       | 32.07  | 6.25   | 36.89  | 60.33  | 120.81 | -60.48    | HORIZONTAL Peak |
| 3                | 5775.000        | 89.65       | 32.16  | 6.10   | 36.89  | 91.02  | 125.20 | -34.18    | HORIZONTAL Peak |
| 4                | 5853.349        | 58.79       | 32.25  | 6.00   | 36.90  | 60.14  | 114.56 | -54.42    | HORIZONTAL Peak |
| 5                | 5930.615        | 59.56       | 32.34  | 6.00   | 36.90  | 61.00  | 68.20  | -7.20     | HORIZONTAL Peak |

Test Mode: 06; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



|      | Read     | Antenna | Cable | Preamp |        | Limit  | Over   |           |               |
|------|----------|---------|-------|--------|--------|--------|--------|-----------|---------------|
| Freq | Level    | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark        |
| MHz  | dBuV     | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |               |
| 1    | 5646.241 | 58.07   | 31.95 | 6.35   | 36.89  | 59.48  | 68.20  | -8.72     | VERTICAL Peak |
| 2    | 5720.171 | 64.52   | 32.04 | 6.33   | 36.89  | 66.00  | 111.19 | -45.19    | VERTICAL Peak |
| 3    | 5775.000 | 66.32   | 32.16 | 6.10   | 36.89  | 97.69  | 125.20 | -27.51    | VERTICAL Peak |
| 4    | 5850.267 | 63.31   | 32.25 | 6.00   | 36.90  | 64.66  | 121.59 | -56.93    | VERTICAL Peak |
| 5    | 5926.244 | 58.88   | 32.34 | 6.00   | 36.90  | 60.32  | 68.20  | -7.88     | VERTICAL Peak |

Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Trace: (Discrete)

|   |          | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq     | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5645.673 | 60.07       | 31.95  | 6.35  | 36.89  | 61.48  | 68.20  | -6.72  | HORIZONTAL | Peak   |
| 2 | 5715.000 | 59.06       | 32.04  | 6.33  | 36.89  | 60.54  | 109.40 | -48.86 | HORIZONTAL | Peak   |
| 3 | 5725.000 | 63.23       | 32.07  | 6.25  | 36.89  | 64.66  | 122.20 | -57.54 | HORIZONTAL | Peak   |
| 4 | 5745.000 | 97.53       | 32.10  | 6.20  | 36.89  | 98.94  | 125.20 | -26.26 | HORIZONTAL | Peak   |

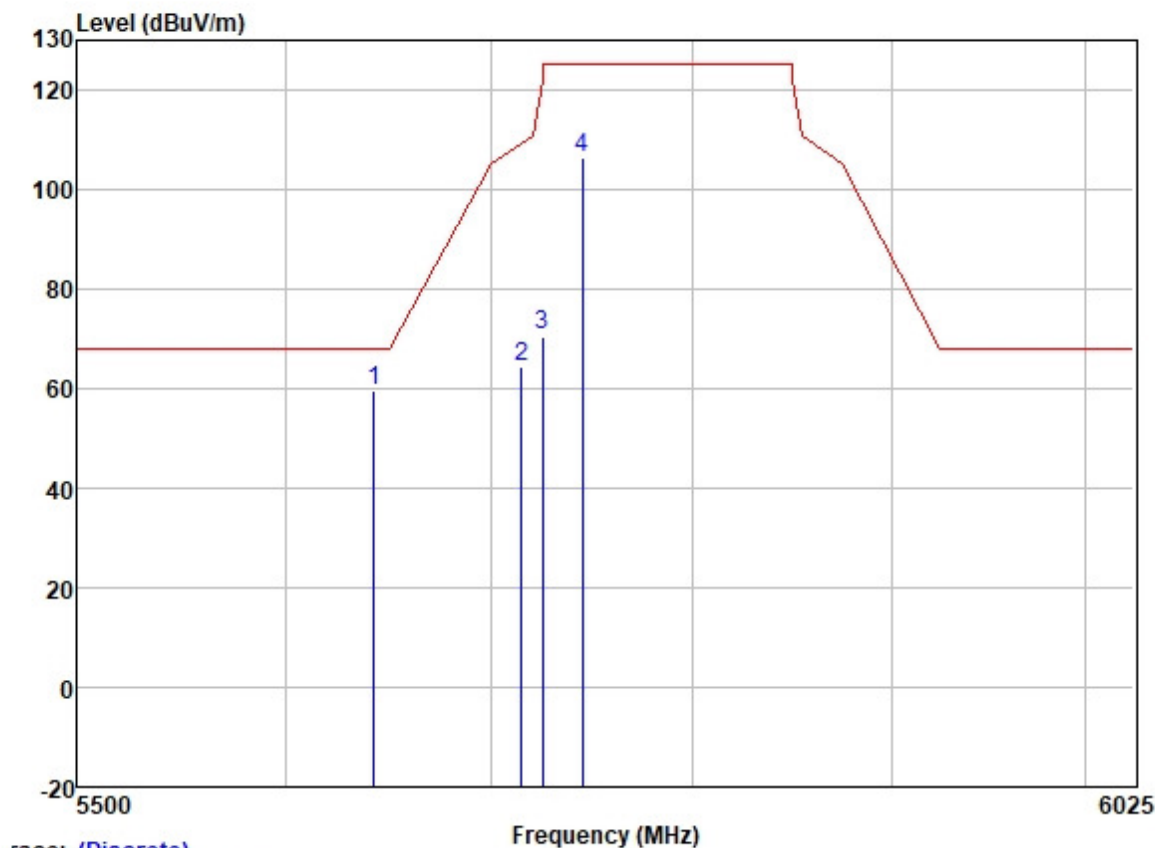


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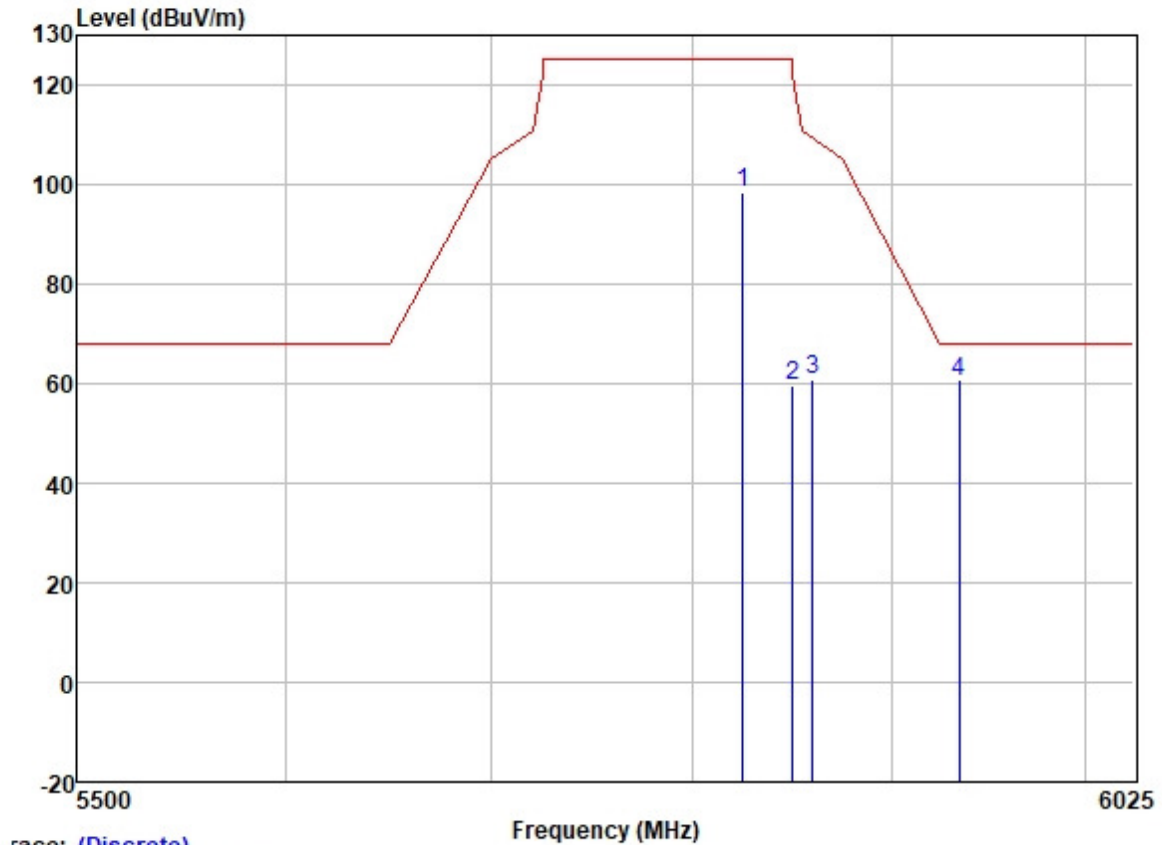


Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



| Trace: (Discrete) | Frequency (MHz) |             |        |        |        |        |        |        |           |        |
|-------------------|-----------------|-------------|--------|--------|--------|--------|--------|--------|-----------|--------|
|                   |                 | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |        |           |        |
|                   | Freq            | Level       | Factor | Loss   | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|                   | MHz             | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1                 | 5642.628        | 58.28       | 31.95  | 6.35   | 36.89  | 59.69  | 68.20  | -8.51  | VERTICAL  | Peak   |
| 2                 | 5715.000        | 62.92       | 32.04  | 6.33   | 36.89  | 64.40  | 109.40 | -45.00 | VERTICAL  | Peak   |
| 3                 | 5725.000        | 69.17       | 32.07  | 6.25   | 36.89  | 70.60  | 122.20 | -51.60 | VERTICAL  | Peak   |
| 4                 | 5745.000        | 105.09      | 32.10  | 6.20   | 36.89  | 106.50 | 125.20 | -18.70 | VERTICAL  | Peak   |

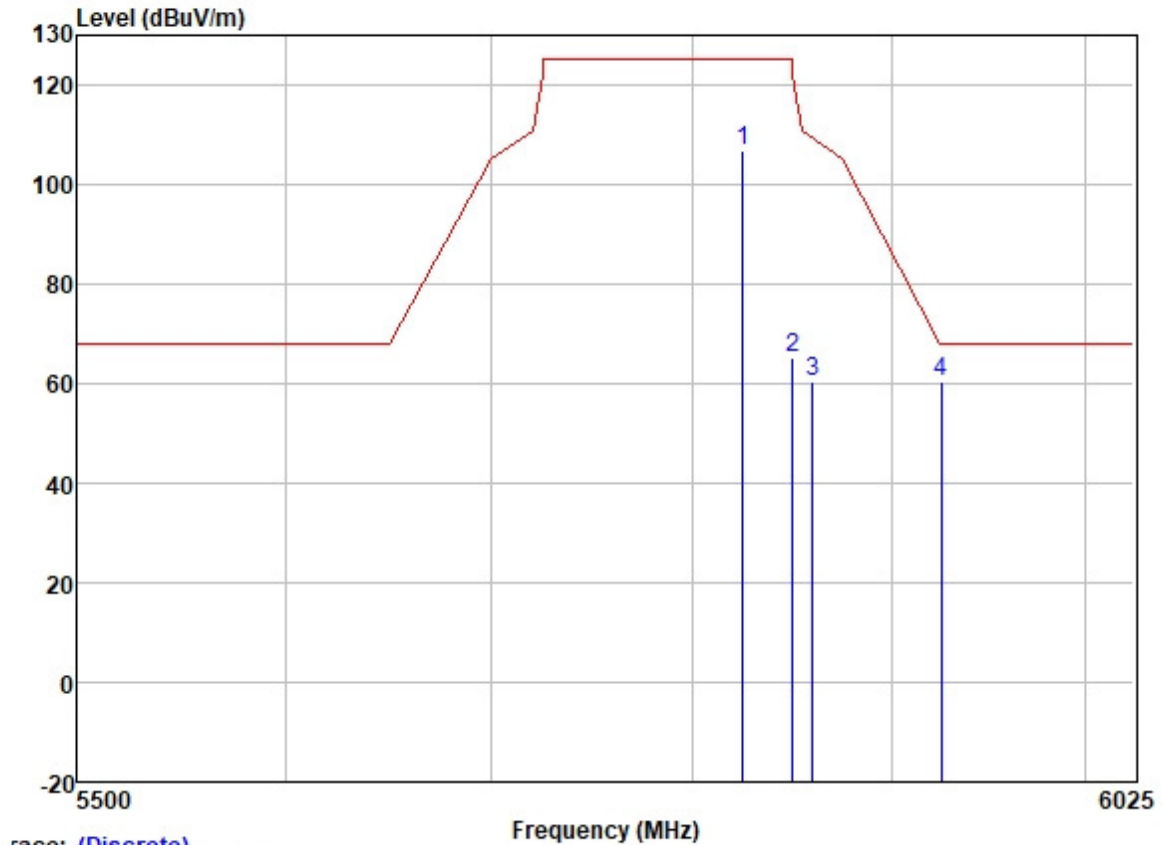
Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Trace: (Discrete)

|   |          | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq     | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5825.000 | 97.22       | 32.23  | 6.04  | 36.90  | 98.59  | 125.20 | -26.61 | HORIZONTAL | Peak   |
| 2 | 5850.000 | 58.14       | 32.25  | 6.00  | 36.90  | 59.49  | 122.20 | -62.71 | HORIZONTAL | Peak   |
| 3 | 5860.000 | 59.37       | 32.27  | 5.96  | 36.90  | 60.70  | 109.40 | -48.70 | HORIZONTAL | Peak   |
| 4 | 5934.957 | 59.16       | 32.34  | 6.00  | 36.90  | 60.60  | 68.20  | -7.60  | HORIZONTAL | Peak   |

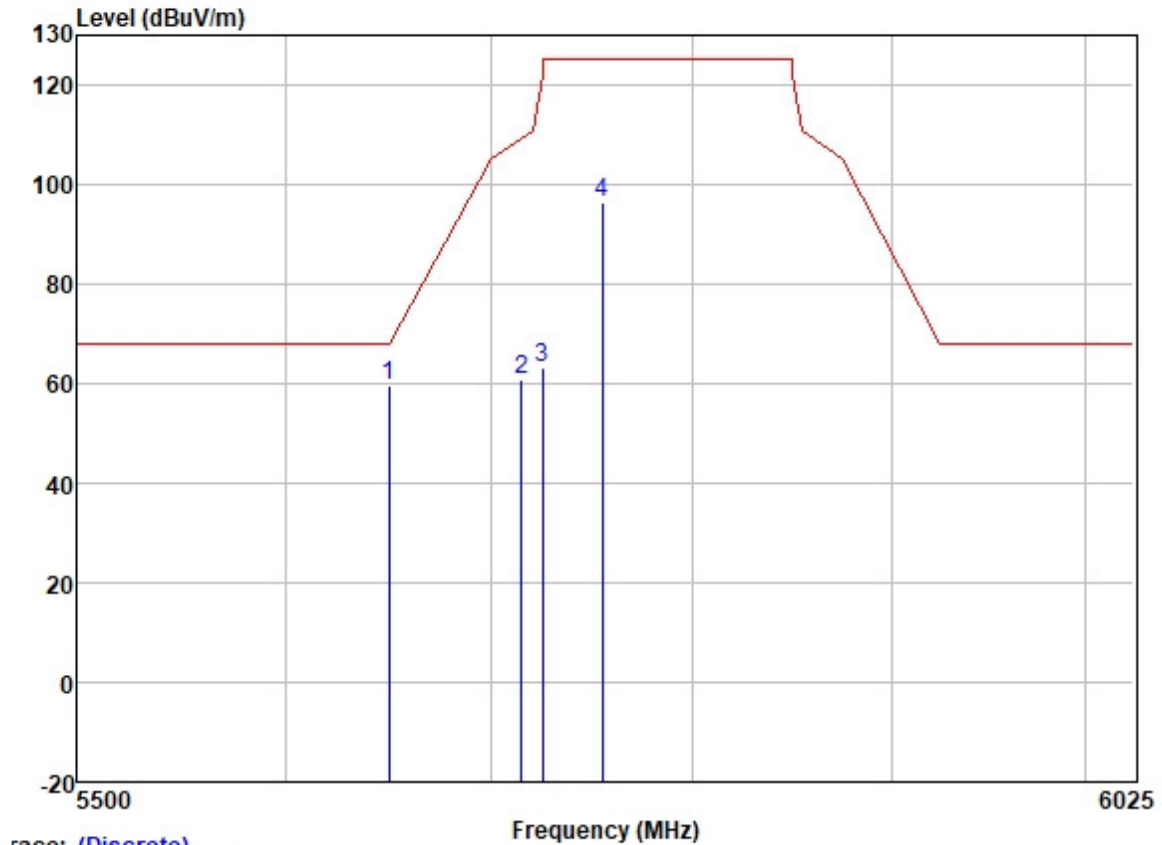
Test Mode: 06; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: High



Trace: (Discrete)

|   |          | Read   | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|---|----------|--------|---------|-------|--------|--------|--------|--------|-----------|--------|
|   | Freq     | Level  | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|   | MHz      | dBuV   | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1 | 5825.000 | 105.33 | 32.23   | 6.04  | 36.90  | 106.70 | 125.20 | -18.50 | VERTICAL  | Peak   |
| 2 | 5850.000 | 63.93  | 32.25   | 6.00  | 36.90  | 65.28  | 122.20 | -56.92 | VERTICAL  | Peak   |
| 3 | 5860.000 | 58.97  | 32.27   | 5.96  | 36.90  | 60.30  | 109.40 | -49.10 | VERTICAL  | Peak   |
| 4 | 5925.713 | 58.88  | 32.34   | 6.00  | 36.90  | 60.32  | 68.20  | -7.88  | VERTICAL  | Peak   |

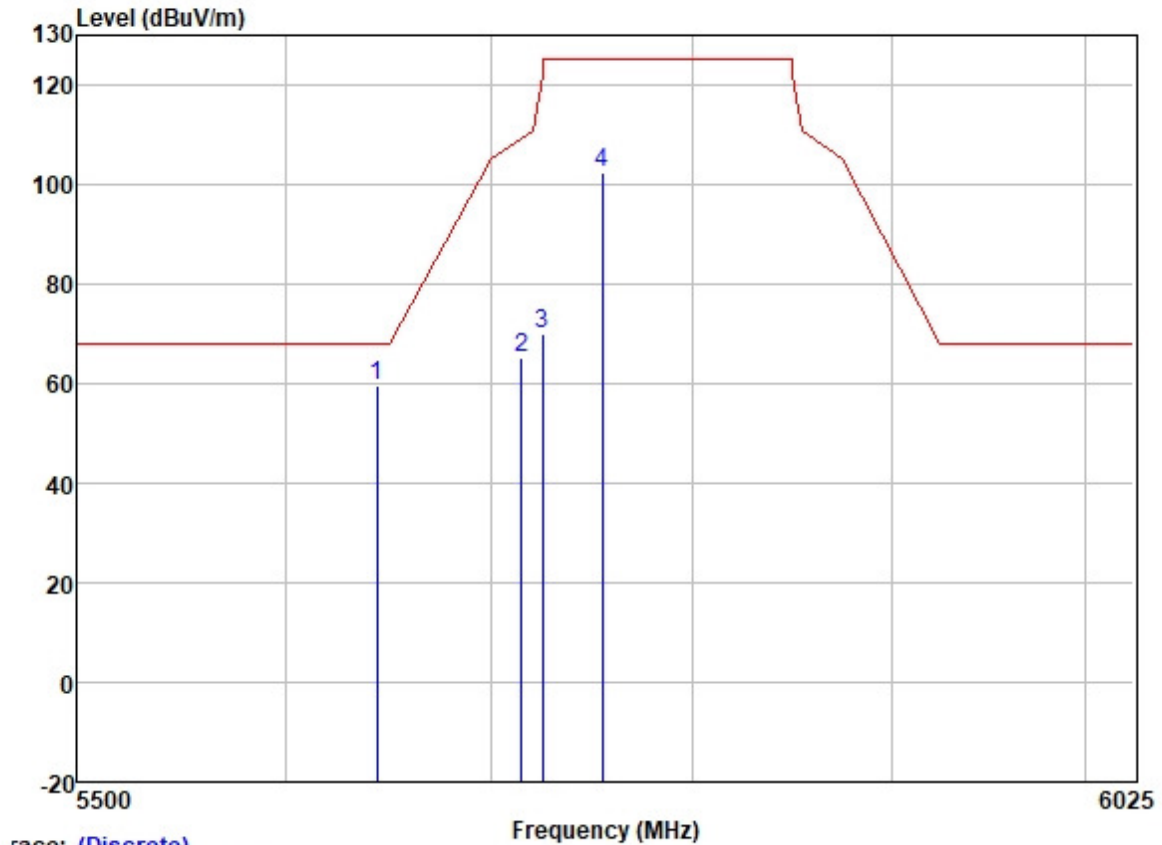
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



|   |          | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq     | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5649.948 | 58.31       | 31.95  | 6.35  | 36.89  | 59.72  | 68.20  | -8.48  | HORIZONTAL | Peak   |
| 2 | 5715.000 | 59.45       | 32.04  | 6.33  | 36.89  | 60.93  | 109.40 | -48.47 | HORIZONTAL | Peak   |
| 3 | 5725.000 | 61.83       | 32.07  | 6.25  | 36.89  | 63.26  | 122.20 | -58.94 | HORIZONTAL | Peak   |
| 4 | 5755.000 | 94.99       | 32.10  | 6.20  | 36.89  | 96.40  | 125.20 | -28.80 | HORIZONTAL | Peak   |

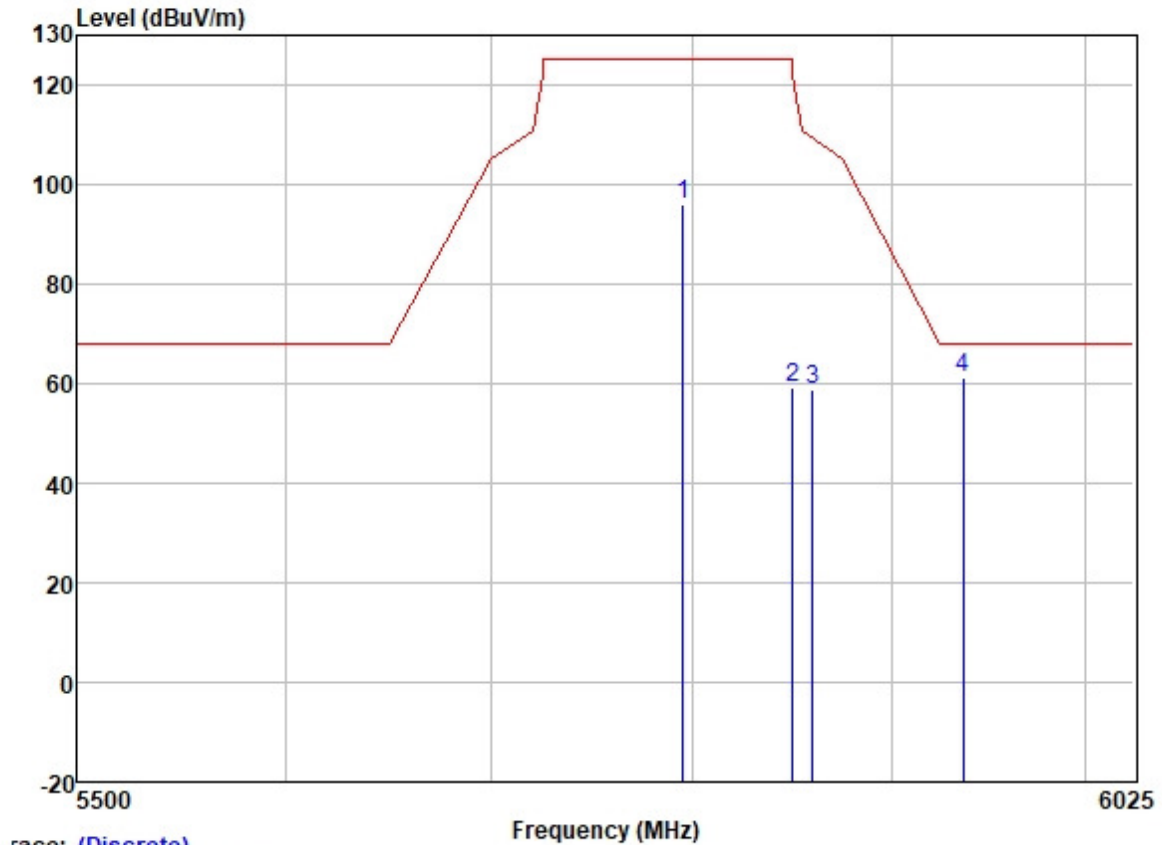


Test Mode: 06; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



|   | Freq     | ReadAntenna | Cable  | Preamp | Limit  | Over   |        |           |               |
|---|----------|-------------|--------|--------|--------|--------|--------|-----------|---------------|
|   | MHz      | Level       | Factor | Loss   | Factor | Line   | Limit  | Pol/Phase | Remark        |
|   | MHz      | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB        |               |
| 1 | 5643.977 | 58.24       | 31.95  | 6.35   | 36.89  | 59.65  | 68.20  | -8.55     | VERTICAL Peak |
| 2 | 5715.000 | 63.85       | 32.04  | 6.33   | 36.89  | 65.33  | 109.40 | -44.07    | VERTICAL Peak |
| 3 | 5725.000 | 68.48       | 32.07  | 6.25   | 36.89  | 69.91  | 122.20 | -52.29    | VERTICAL Peak |
| 4 | 5755.000 | 101.17      | 32.10  | 6.20   | 36.89  | 102.58 | 125.20 | -22.62    | VERTICAL Peak |

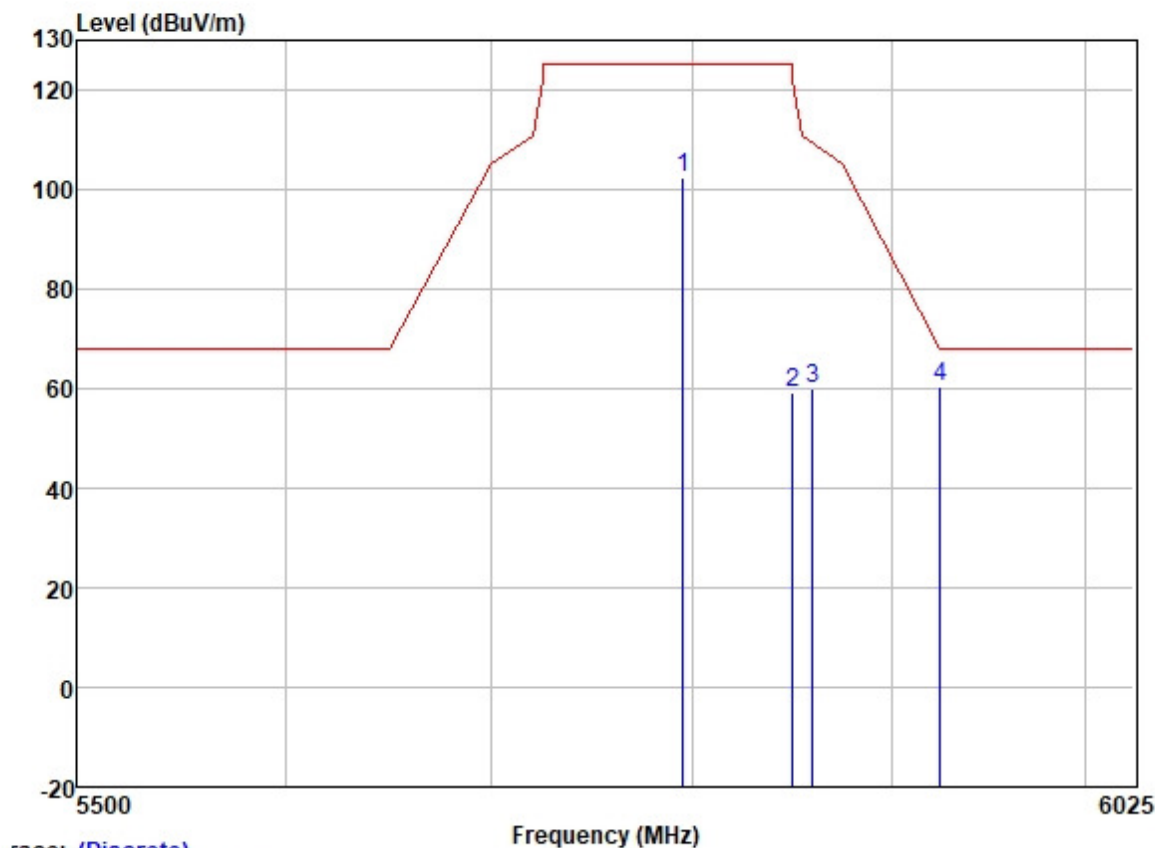
Test Mode: 06; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



Trace: (Discrete)

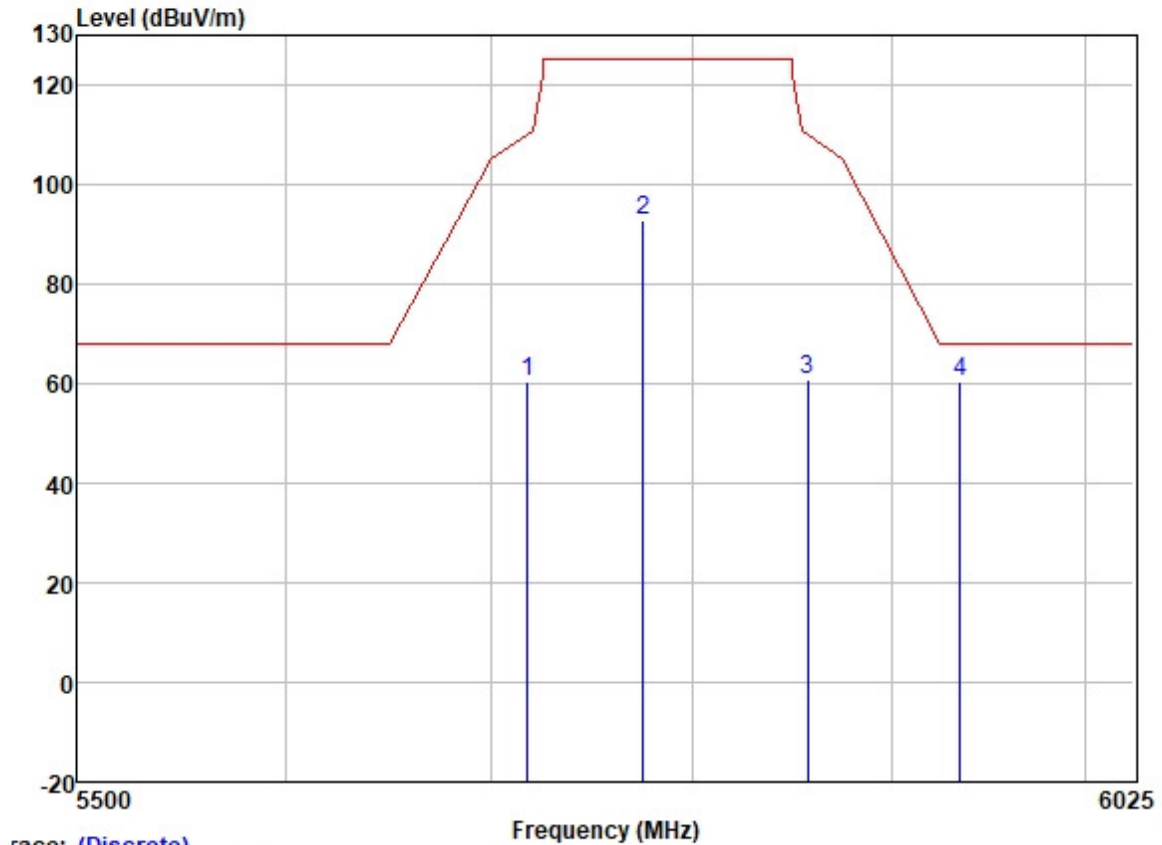
|      | Read     | Antenna | Cable | Preamp |        | Limit  | Over   |           |                 |
|------|----------|---------|-------|--------|--------|--------|--------|-----------|-----------------|
| Freq | Level    | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark          |
| MHz  | dBuV     | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |                 |
| 1    | 5795.000 | 94.47   | 32.19 | 6.10   | 36.89  | 95.87  | 125.20 | -29.33    | HORIZONTAL Peak |
| 2    | 5850.000 | 58.00   | 32.25 | 6.00   | 36.90  | 59.35  | 122.20 | -62.85    | HORIZONTAL Peak |
| 3    | 5860.000 | 57.59   | 32.27 | 5.96   | 36.90  | 58.92  | 109.40 | -50.48    | HORIZONTAL Peak |
| 4    | 5936.868 | 59.59   | 32.34 | 6.00   | 36.90  | 61.03  | 68.20  | -7.17     | HORIZONTAL Peak |

Test Mode: 06; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



|   | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark        |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|---------------|
|   | MHz       | dBuV          | dB/m         | dB          | dB            | dBuV/m      | dBuV/m     | dB        |               |
| 1 | 5795.000  | 101.13        | 32.19        | 6.10        | 36.89         | 102.53      | 125.20     | -22.67    | VERTICAL Peak |
| 2 | 5850.000  | 57.72         | 32.25        | 6.00        | 36.90         | 59.07       | 122.20     | -63.13    | VERTICAL Peak |
| 3 | 5860.000  | 58.52         | 32.27        | 5.96        | 36.90         | 59.85       | 109.40     | -49.55    | VERTICAL Peak |
| 4 | 5925.096  | 58.81         | 32.34        | 6.00        | 36.90         | 60.25       | 68.20      | -7.95     | VERTICAL Peak |

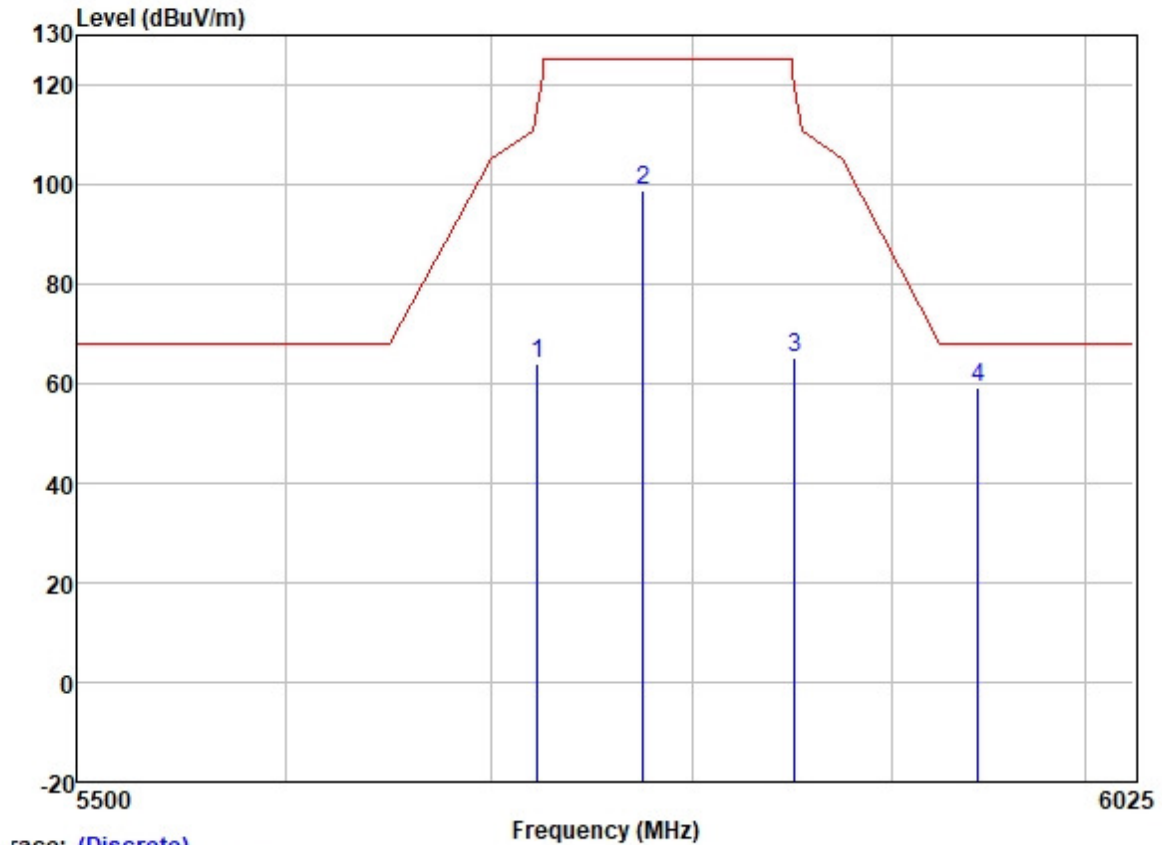
Test Mode: 06; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



|   |          | ReadAntenna |        | Cable | Preamp |        | Limit  | Over   |            |        |
|---|----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
|   | Freq     | Level       | Factor | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase  | Remark |
|   | MHz      | dBuV        | dB/m   | dB    | dB     | dBuV/m | dBuV/m | dB     |            |        |
| 1 | 5717.761 | 58.85       | 32.04  | 6.33  | 36.89  | 60.33  | 110.17 | -49.84 | HORIZONTAL | Peak   |
| 2 | 5775.000 | 91.24       | 32.16  | 6.10  | 36.89  | 92.61  | 125.20 | -32.59 | HORIZONTAL | Peak   |
| 3 | 5857.666 | 59.30       | 32.27  | 5.96  | 36.90  | 60.63  | 110.05 | -49.42 | HORIZONTAL | Peak   |
| 4 | 5935.302 | 58.79       | 32.34  | 6.00  | 36.90  | 60.23  | 68.20  | -7.97  | HORIZONTAL | Peak   |



Test Mode: 06; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 80MHz; Channel: middle



| race: (Discrete) | Frequency (MHz) |       |         |       |        |        |        |        |           |        |
|------------------|-----------------|-------|---------|-------|--------|--------|--------|--------|-----------|--------|
|                  |                 | Read  | Antenna | Cable | Preamp |        | Limit  | Over   |           |        |
|                  | Freq            | Level | Factor  | Loss  | Factor | Level  | Line   | Limit  | Pol/Phase | Remark |
|                  | MHz             | dBuV  | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB     |           |        |
| 1                | 5722.582        | 62.42 | 32.07   | 6.25  | 36.89  | 63.85  | 116.69 | -52.84 | VERTICAL  | Peak   |
| 2                | 5775.000        | 97.61 | 32.16   | 6.10  | 36.89  | 98.98  | 125.20 | -26.22 | VERTICAL  | Peak   |
| 3                | 5850.883        | 63.72 | 32.25   | 6.00  | 36.90  | 65.07  | 120.19 | -55.12 | VERTICAL  | Peak   |
| 4                | 5944.374        | 57.81 | 32.36   | 6.05  | 36.90  | 59.32  | 68.20  | -8.88  | VERTICAL  | Peak   |

## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2108020829AT



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix \_ Photographs of EUT Constructional Details for GZCR2108020829AT



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## 10 Appendix

### 1. Duty Cycle

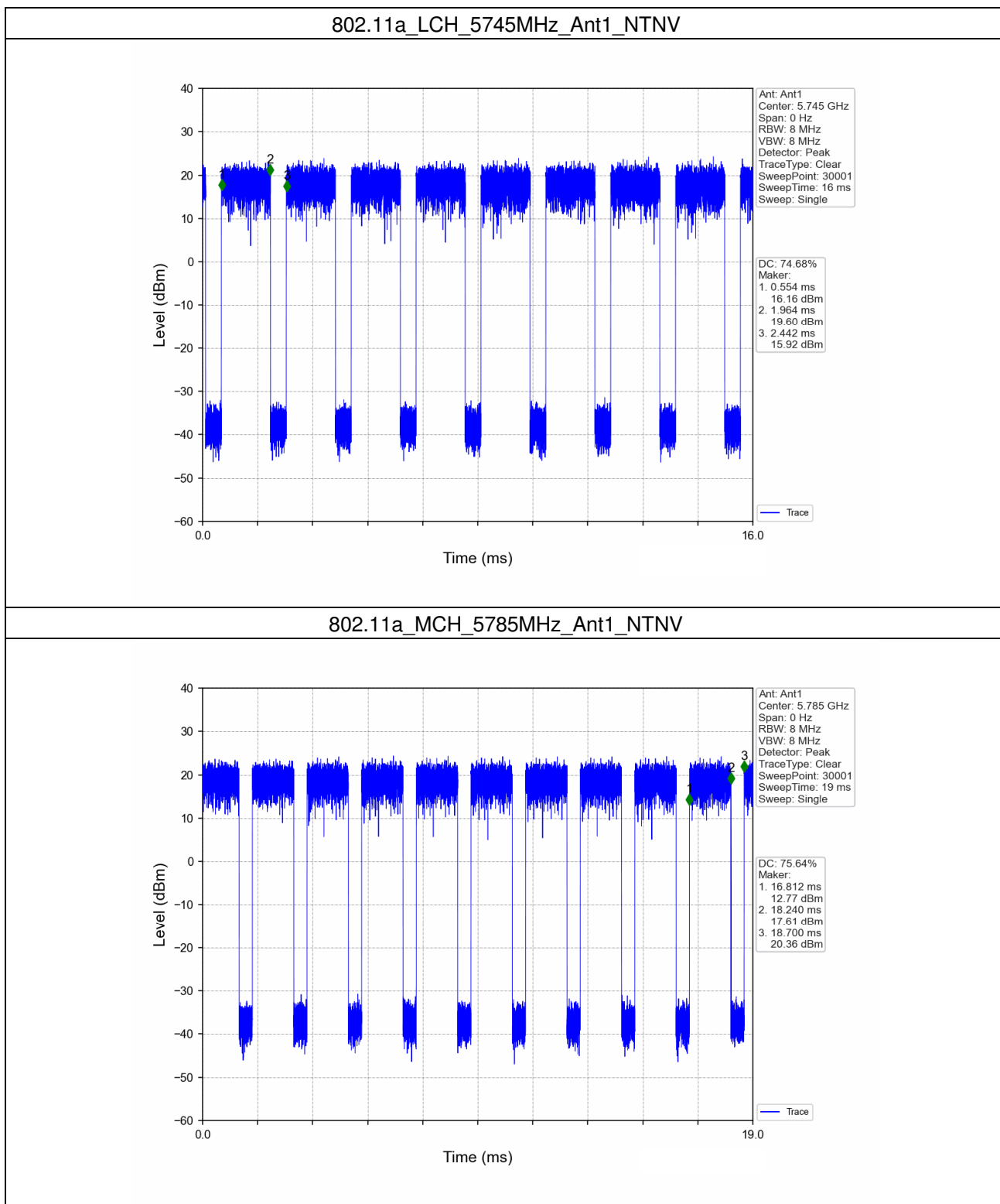
#### 1.1 Ant1

##### 1.1.1 Test Result

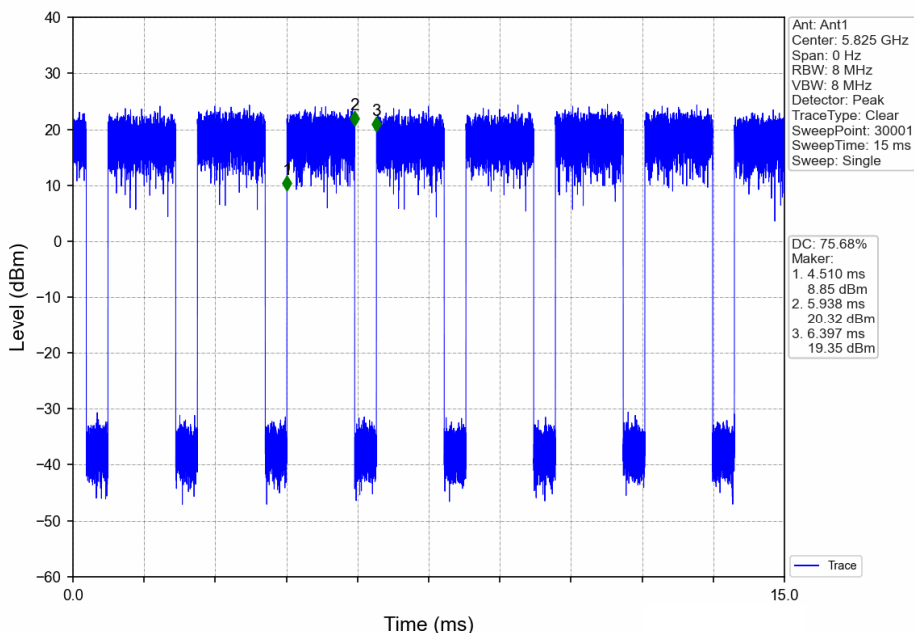
| Ant1             |         |                 |       |        |                      |             |                |                                   |                       |
|------------------|---------|-----------------|-------|--------|----------------------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | Tx Type | Frequency (MHz) | RU    | RU Pos | T <sub>on</sub> (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5745            | /     | /      | 1.41                 | 1.89        | 74.68          | 1.27                              | 0.09                  |
|                  |         | 5785            | /     | /      | 1.43                 | 1.89        | 75.64          | 1.21                              | 0.08                  |
|                  |         | 5825            | /     | /      | 1.43                 | 1.89        | 75.68          | 1.21                              | 0.06                  |
| 802.11n (HT20)   | MIMO    | 5745            | /     | /      | 0.69                 | 0.79        | 87.48          | 0.58                              | 0.03                  |
|                  |         | 5785            | /     | /      | 0.69                 | 0.92        | 75.03          | 1.25                              | 0.03                  |
|                  |         | 5825            | /     | /      | 0.69                 | 0.92        | 75.14          | 1.24                              | 0.01                  |
| 802.11n (HT40)   | MIMO    | 5755            | /     | /      | 0.36                 | 0.46        | 78.46          | 1.05                              | 0.07                  |
|                  |         | 5795            | /     | /      | 0.35                 | 0.46        | 77.36          | 1.11                              | 0.04                  |
| 802.11ac (VHT20) | MIMO    | 5745            | /     | /      | 0.15                 | 0.25        | 60.96          | 2.15                              | 0.08                  |
|                  |         | 5785            | /     | /      | 0.15                 | 0.25        | 58.96          | 2.29                              | 0.10                  |
|                  |         | 5825            | /     | /      | 0.15                 | 0.25        | 60.96          | 2.15                              | 0.06                  |
| 802.11ac (VHT40) | MIMO    | 5755            | /     | /      | 0.10                 | 0.20        | 51.26          | 2.90                              | 0.10                  |
|                  |         | 5795            | /     | /      | 0.10                 | 0.20        | 50.75          | 2.95                              | 0.03                  |
| 802.11ac (VHT80) | MIMO    | 5775            | /     | /      | 0.08                 | 0.18        | 42.08          | 3.76                              | 0.31                  |
| 802.11ax (HEW20) | MIMO    | 5745            | RU242 | Left   | 0.14                 | 0.24        | 57.96          | 2.37                              | 0.12                  |
|                  |         | 5785            | RU242 | Left   | 0.15                 | 0.24        | 60.00          | 2.22                              | 0.07                  |
|                  |         | 5825            | RU242 | Left   | 0.15                 | 0.25        | 60.16          | 2.21                              | 0.04                  |
| 802.11ax (HEW40) | MIMO    | 5755            | RU484 | Left   | 0.10                 | 0.20        | 48.78          | 3.12                              | 0.21                  |
|                  |         | 5795            | RU484 | Left   | 0.10                 | 0.20        | 49.27          | 3.07                              | 0.16                  |
| 802.11ax (HEW80) | MIMO    | 5775            | RU996 | Left   | 0.08                 | 0.18        | 46.15          | 3.36                              | 0.05                  |



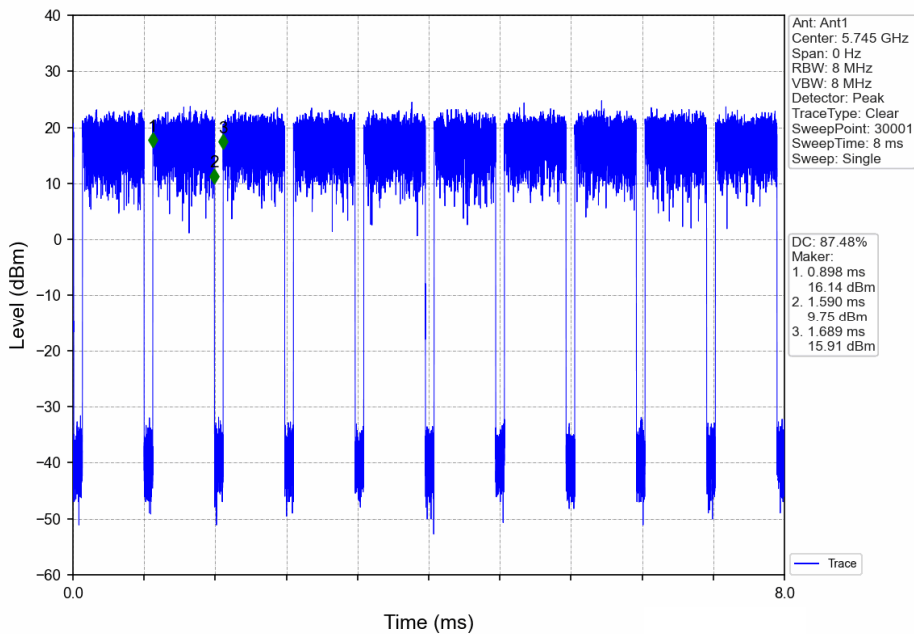
### 1.1.2 Test Graph



802.11a\_HCH\_5825MHz\_Ant1\_NTNV

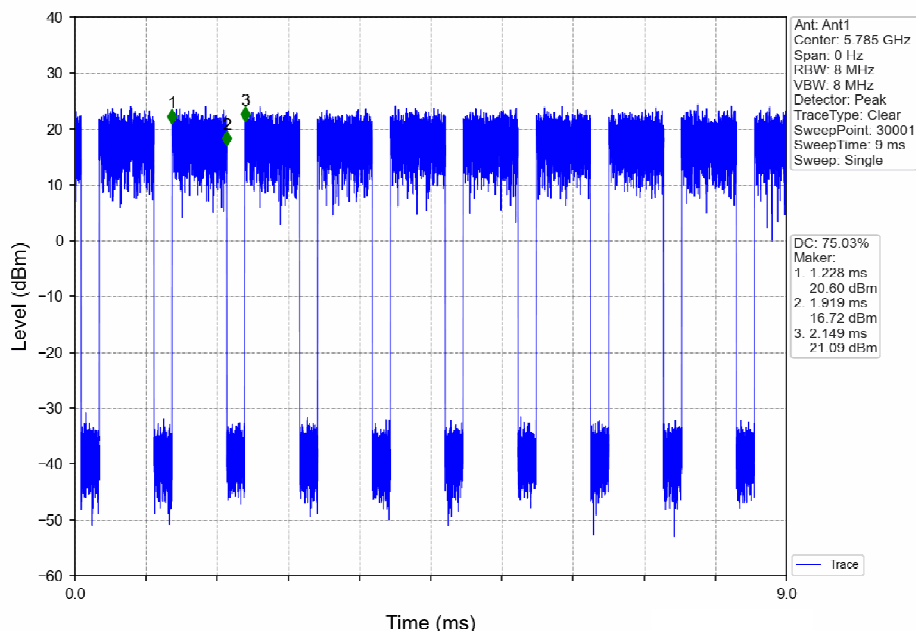


802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV

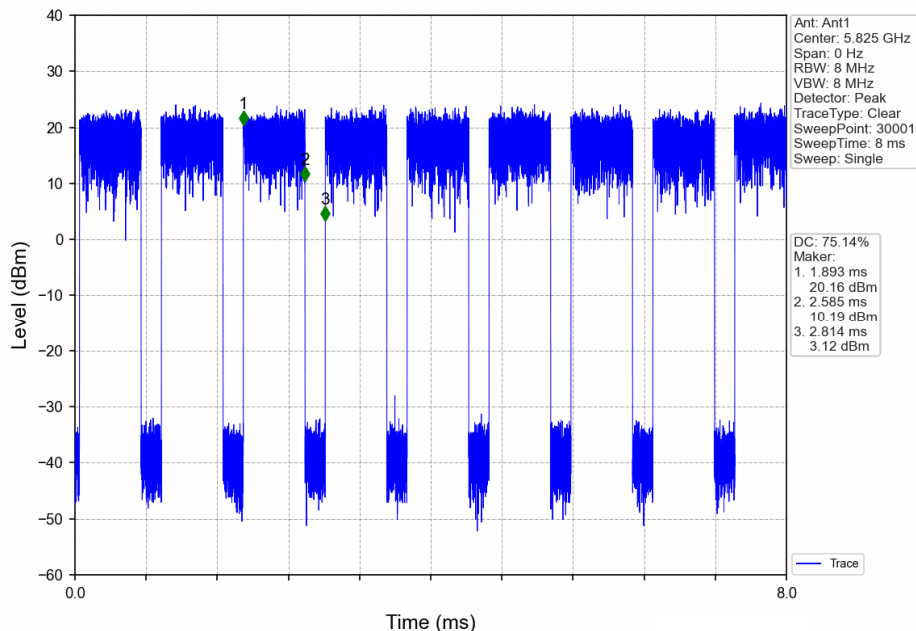


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### 802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV

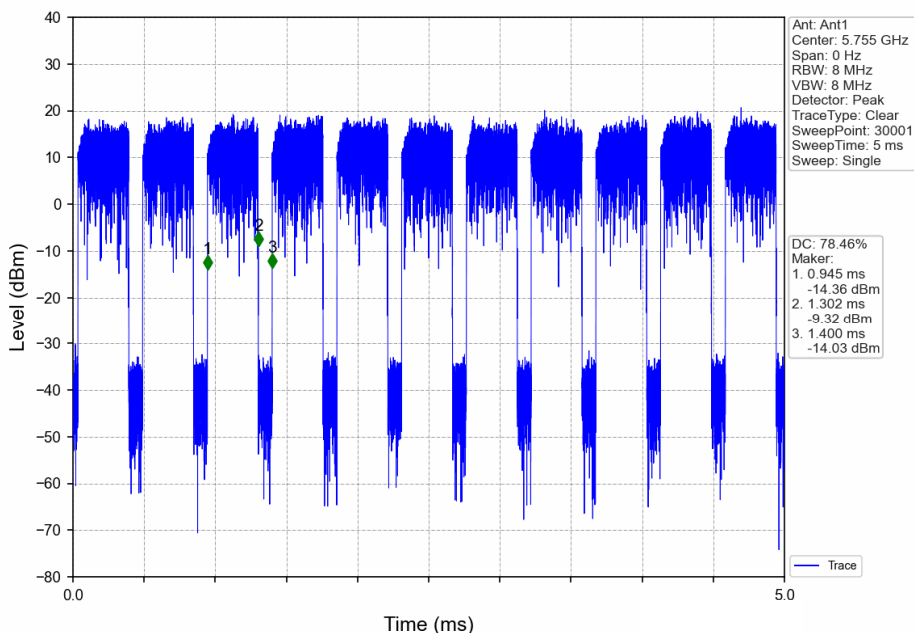


### 802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV

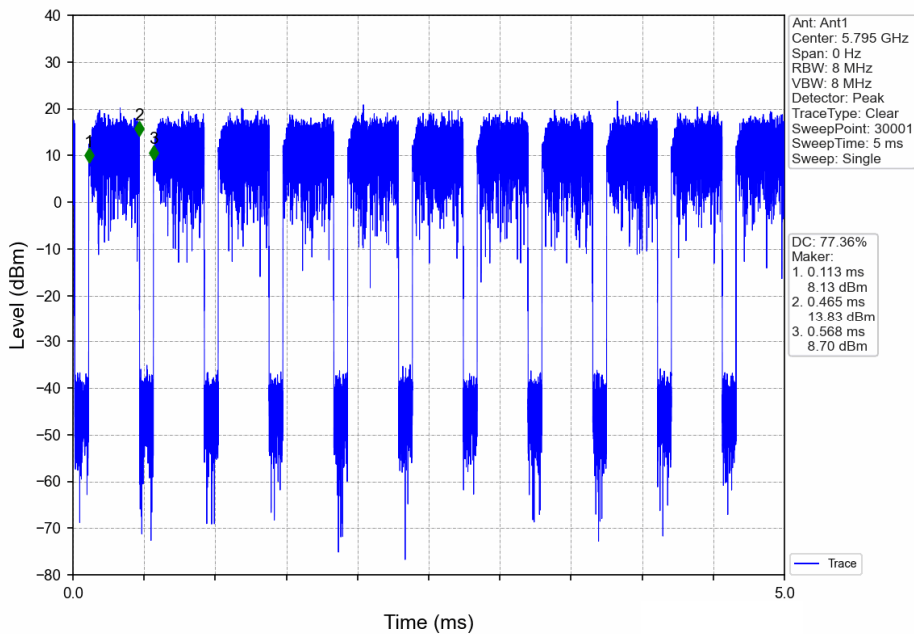


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802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV

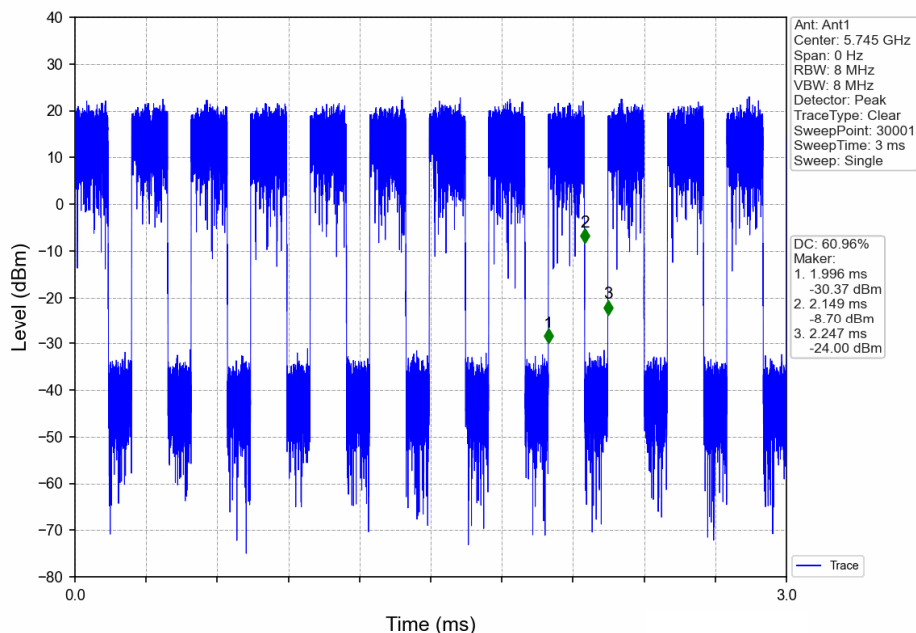


802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV

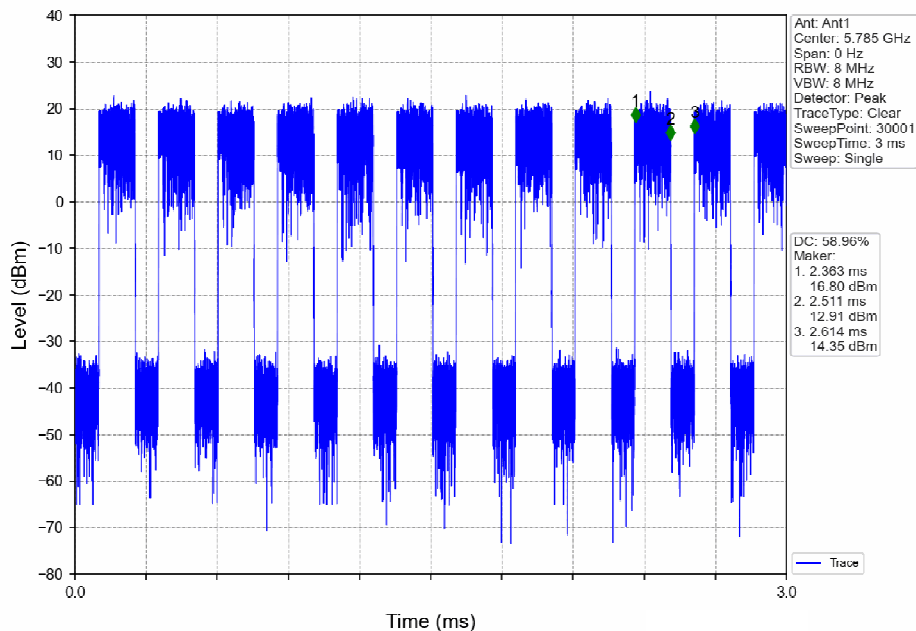




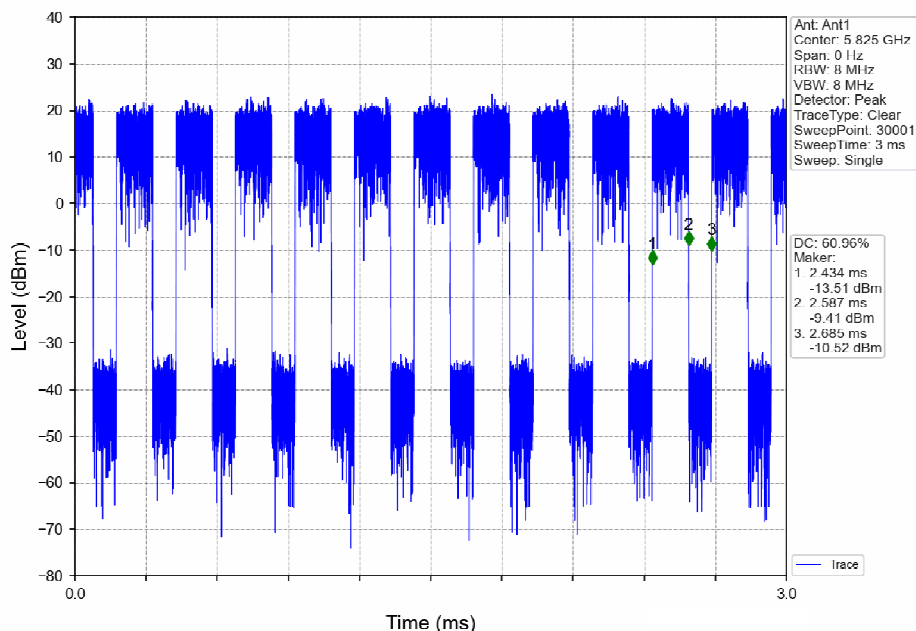
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



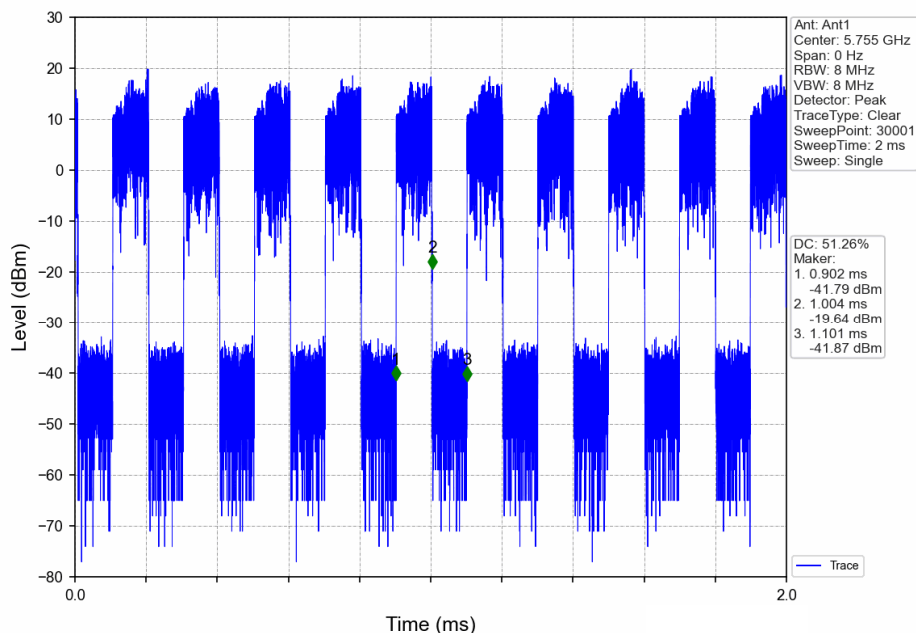
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



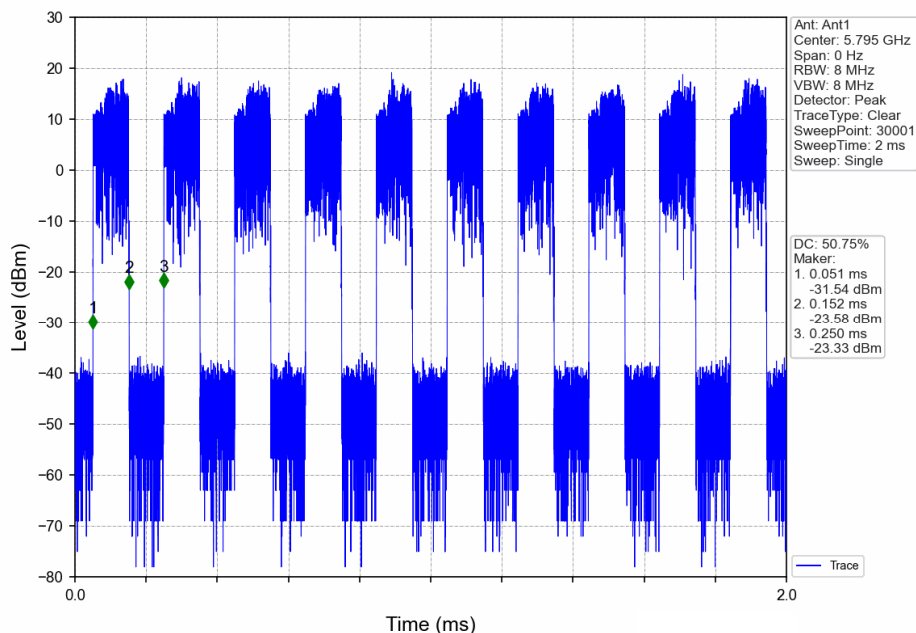
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



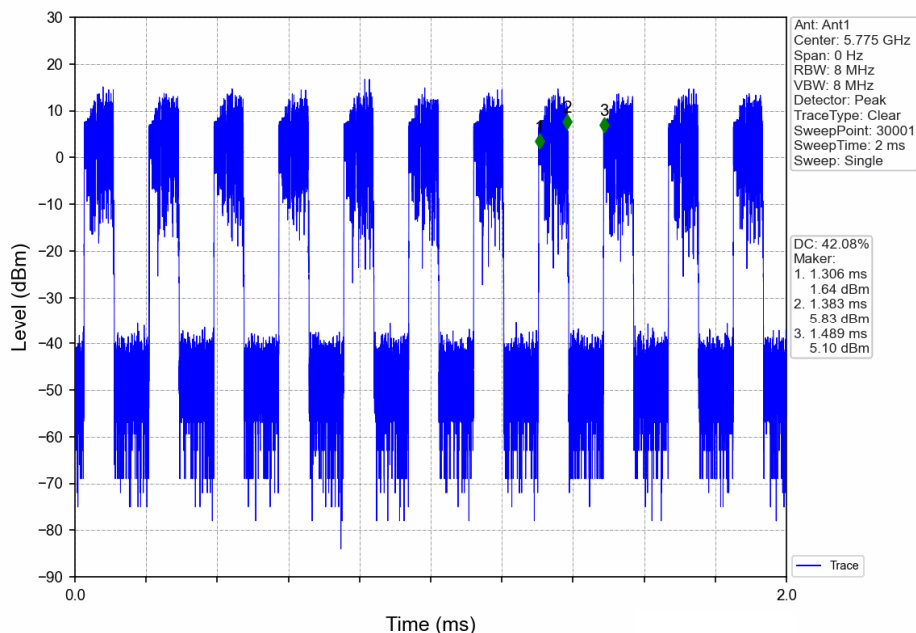
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



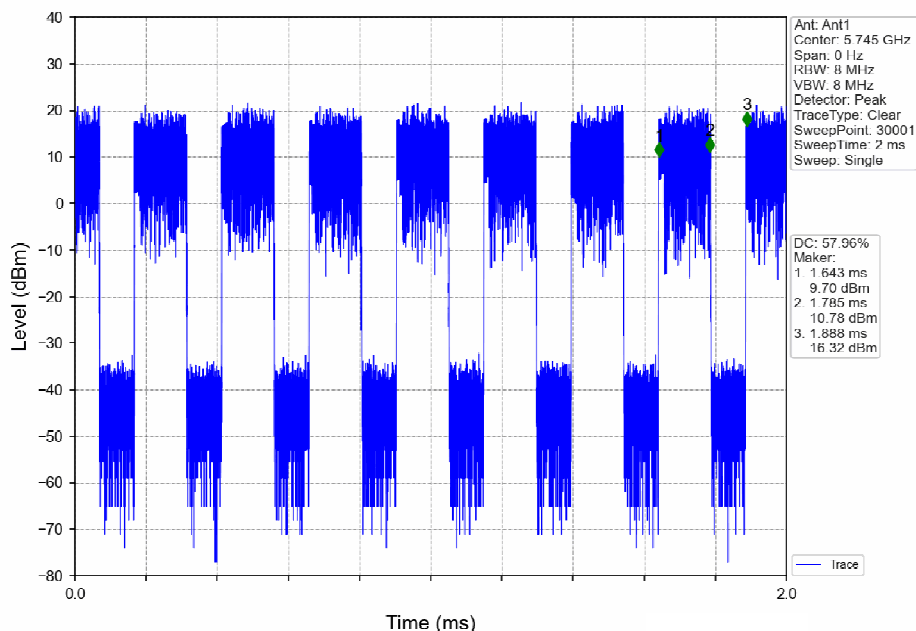
802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



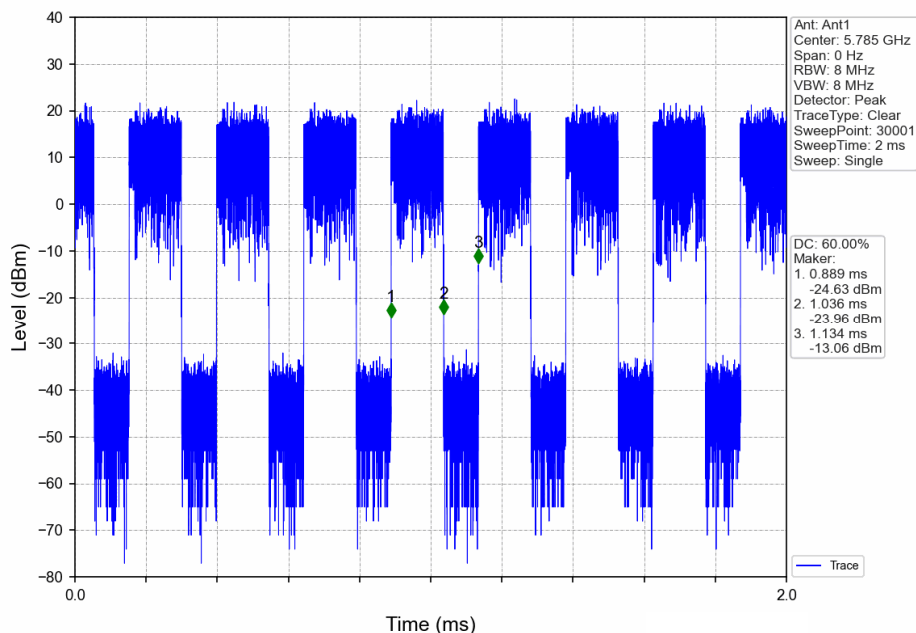
802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



802.11ax(HEW20)\_LCH\_5745MHz\_RU242\_Left\_Ant1\_NTNV

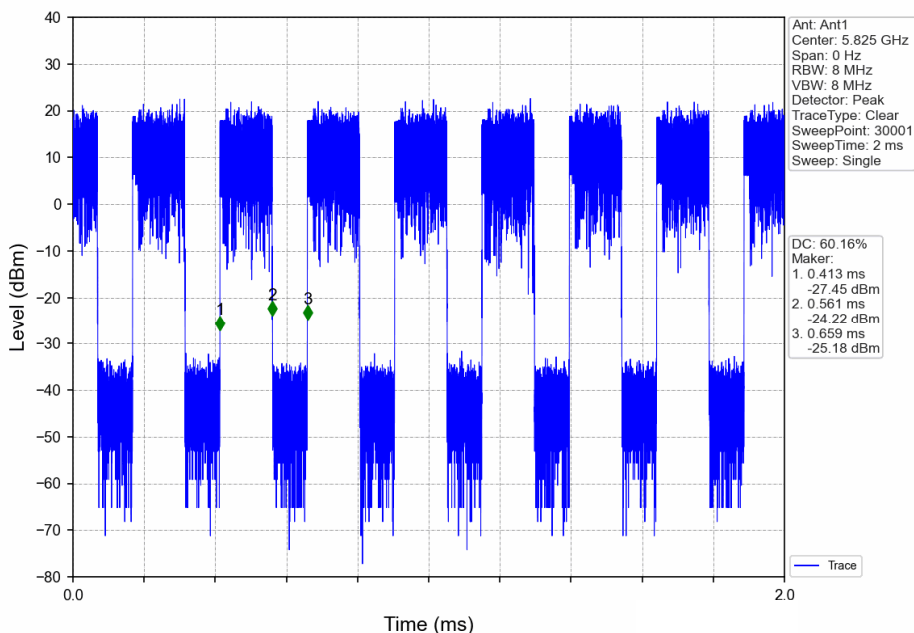


802.11ax(HEW20)\_MCH\_5785MHz\_RU242\_Left\_Ant1\_NTNV

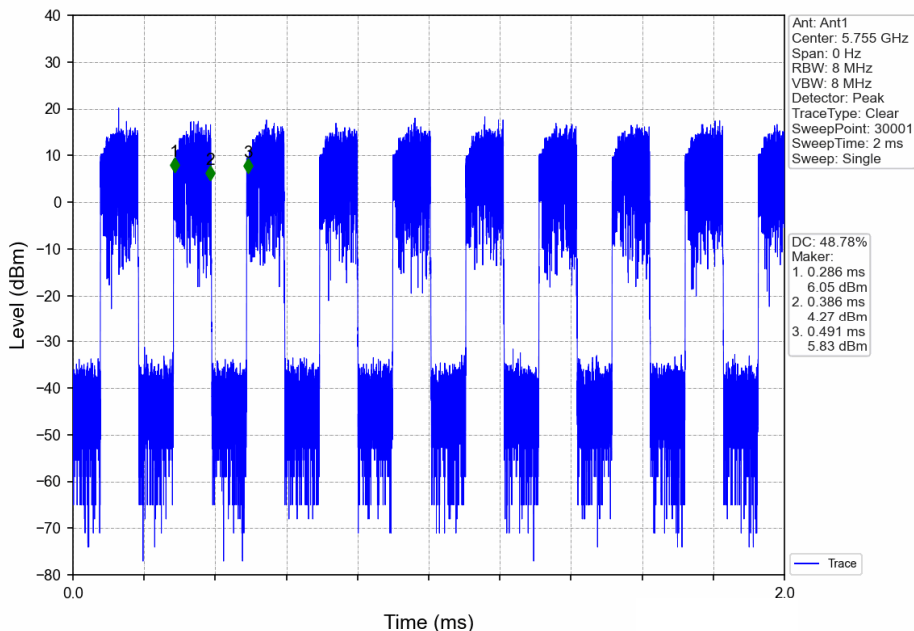




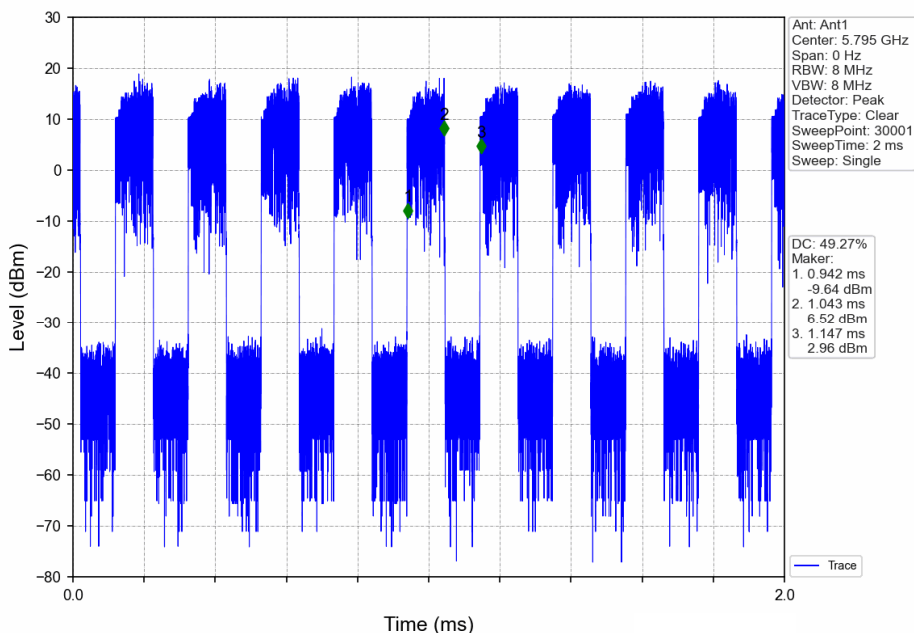
802.11ax(HEW20)\_HCH\_5825MHz\_RU242\_Left\_Ant1\_NTNV



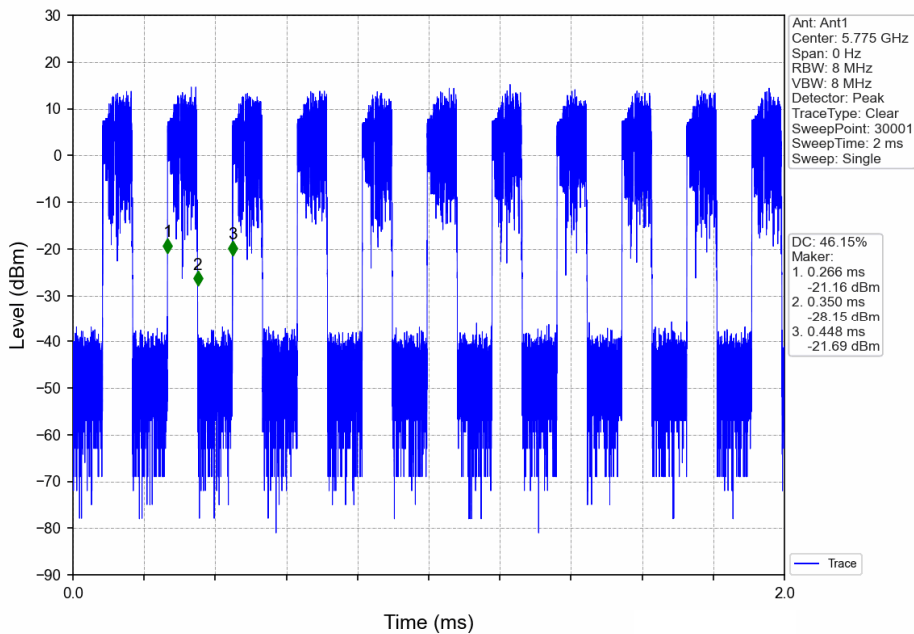
802.11ax(HEW40)\_LCH\_5755MHz\_RU484\_Left\_Ant1\_NTNV



802.11ax(HEW40)\_HCH\_5795MHz\_RU484\_Left\_Ant1\_NTNV



802.11ax(HEW80)\_MCH\_5775MHz\_RU996\_Left\_Ant1\_NTNV



## 2. Bandwidth

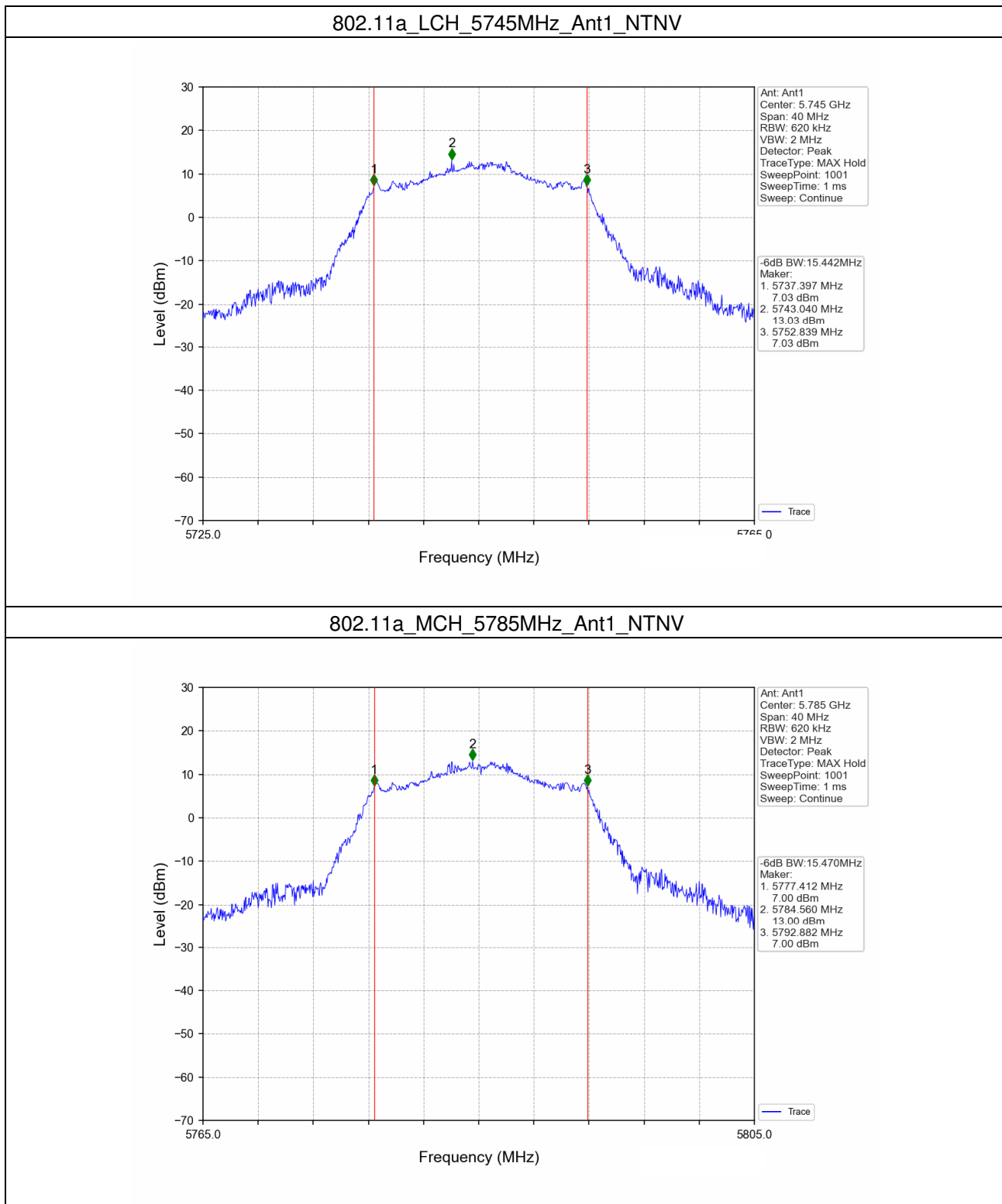
## 2.1 6dB BW

## 2.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | RU    | RU Pos | Ant | 6dB Bandwidth (MHz) | Limit      | Verdict |
|------------------|---------|-----------------|-------|--------|-----|---------------------|------------|---------|
| 802.11a          | SISO    | 5745            | /     | /      | 1   | 15.44               | $\geq 0.5$ | Pass    |
|                  |         | 5785            | /     | /      | 1   | 15.47               | $\geq 0.5$ | Pass    |
|                  |         | 5825            | /     | /      | 1   | 15.33               | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | MIMO    | 5745            | /     | /      | 1   | 15.95               | $\geq 0.5$ | Pass    |
|                  |         | 5785            | /     | /      | 1   | 15.45               | $\geq 0.5$ | Pass    |
|                  |         | 5825            | /     | /      | 1   | 15.89               | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | MIMO    | 5755            | /     | /      | 1   | 36.56               | $\geq 0.5$ | Pass    |
|                  |         | 5795            | /     | /      | 1   | 36.47               | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | MIMO    | 5745            | /     | /      | 1   | 17.99               | $\geq 0.5$ | Pass    |
|                  |         | 5785            | /     | /      | 1   | 18.03               | $\geq 0.5$ | Pass    |
|                  |         | 5825            | /     | /      | 1   | 17.91               | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | MIMO    | 5755            | /     | /      | 1   | 36.53               | $\geq 0.5$ | Pass    |
|                  |         | 5795            | /     | /      | 1   | 36.81               | $\geq 0.5$ | Pass    |
| 802.11ac (VHT80) | MIMO    | 5775            | /     | /      | 1   | 78.12               | $\geq 0.5$ | Pass    |
| 802.11ax (HEW20) | MIMO    | 5745            | RU242 | Left   | 1   | 19.21               | $\geq 0.5$ | Pass    |
|                  |         | 5785            | RU242 | Left   | 1   | 19.10               | $\geq 0.5$ | Pass    |
|                  |         | 5825            | RU242 | Left   | 1   | 19.05               | $\geq 0.5$ | Pass    |
| 802.11ax (HEW40) | MIMO    | 5755            | RU484 | Left   | 1   | 37.86               | $\geq 0.5$ | Pass    |
|                  |         | 5795            | RU484 | Left   | 1   | 38.03               | $\geq 0.5$ | Pass    |
| 802.11ax (HEW80) | MIMO    | 5775            | RU996 | Left   | 1   | 77.68               | $\geq 0.5$ | Pass    |

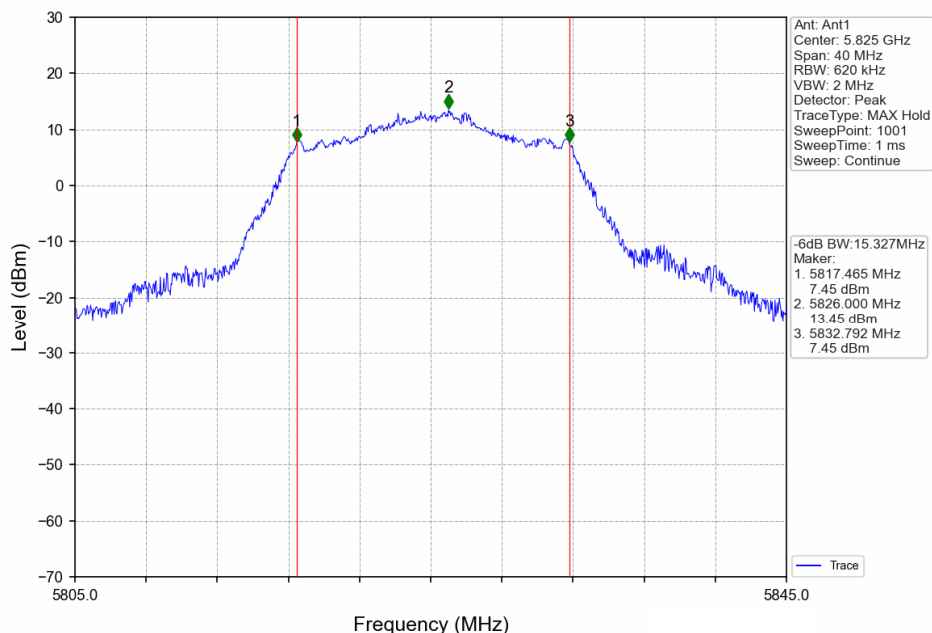
Remark: Antenna 1 & 2 were tested for Modulation: 802.11a. Only the worst case(Antenna 1) was recorded in the report. Antenna 1, 2 & 1+2, were tested for Modulation: 802.11n(HT20),n(HT40), 802.11ac(HT20), ac(HT40), ac(HT80),ax(HEW20), ax(HEW40), ax(HEW80). Only the worst case(Antenna 1) was recorded in the report.

### 2.2.2 Test Graph

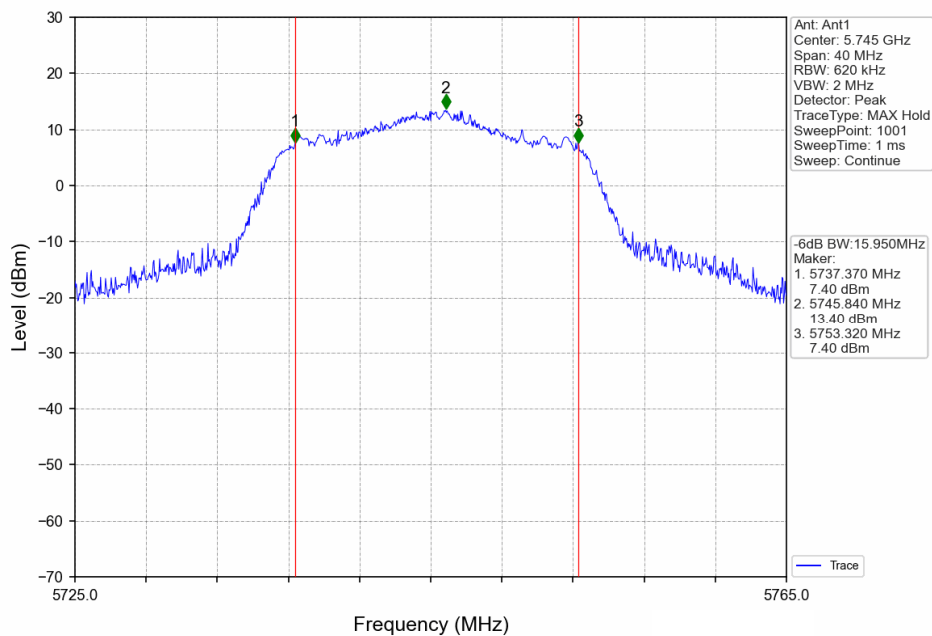




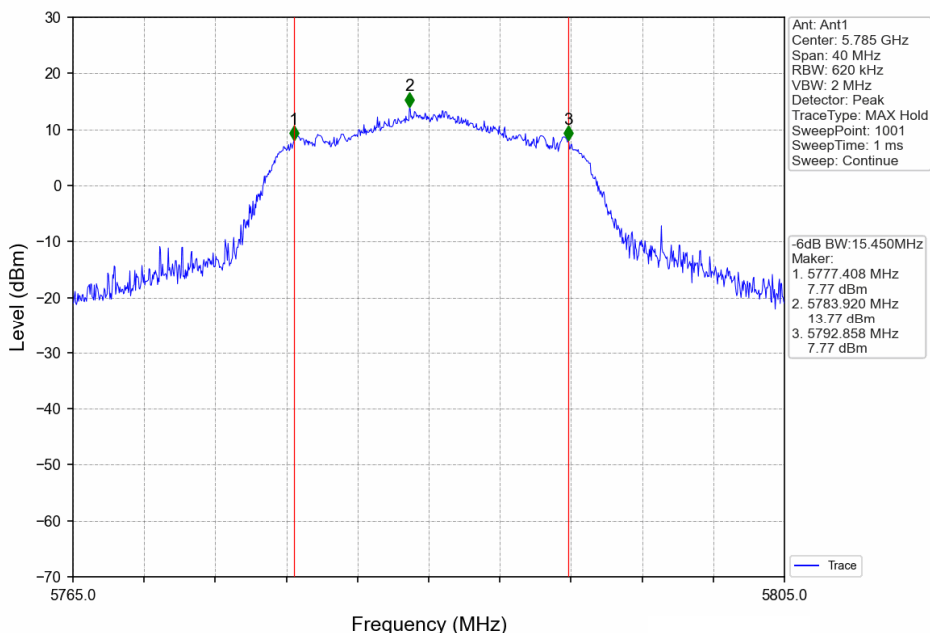
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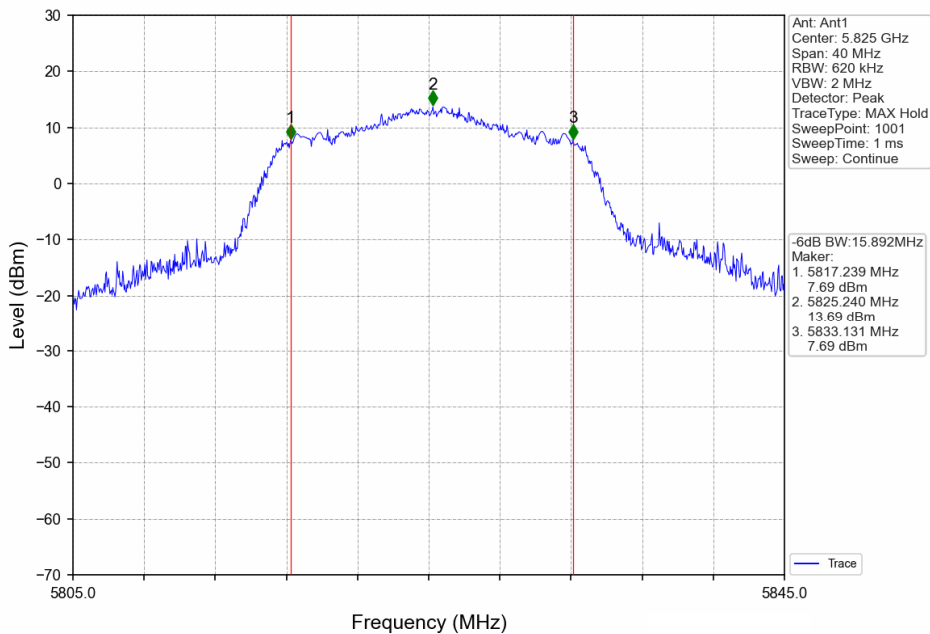
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



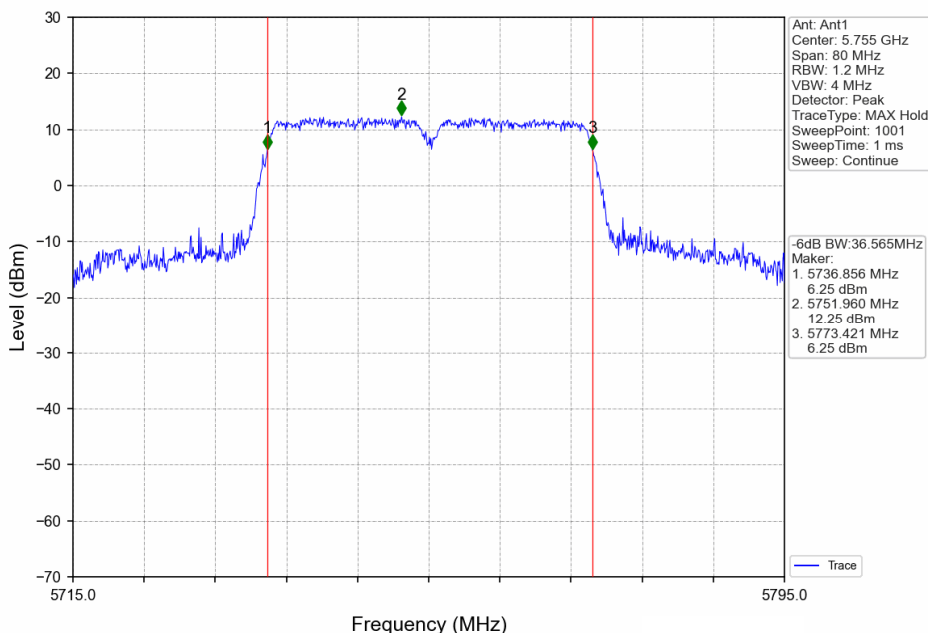
### 802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



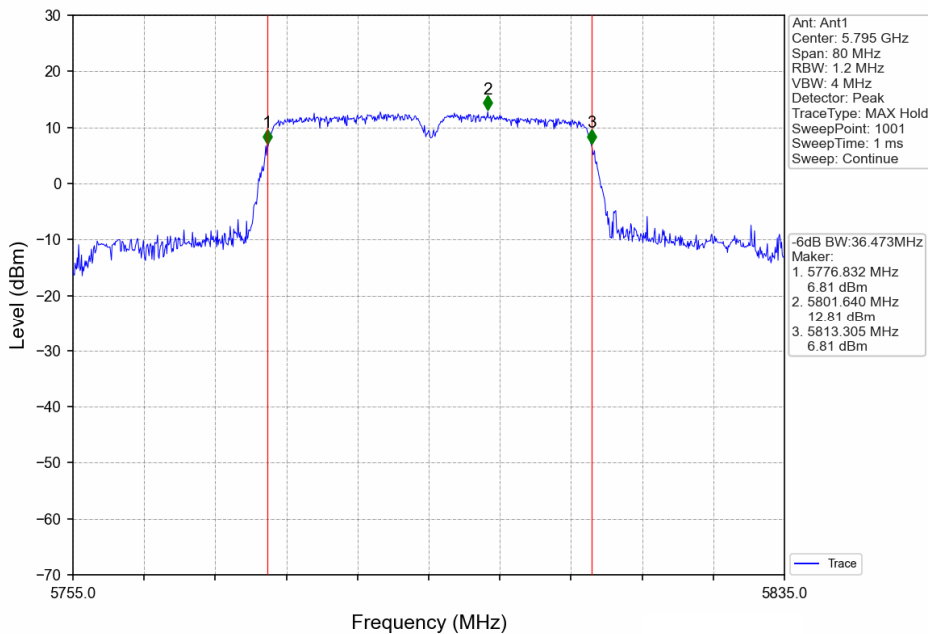
### 802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



### 802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



### 802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



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