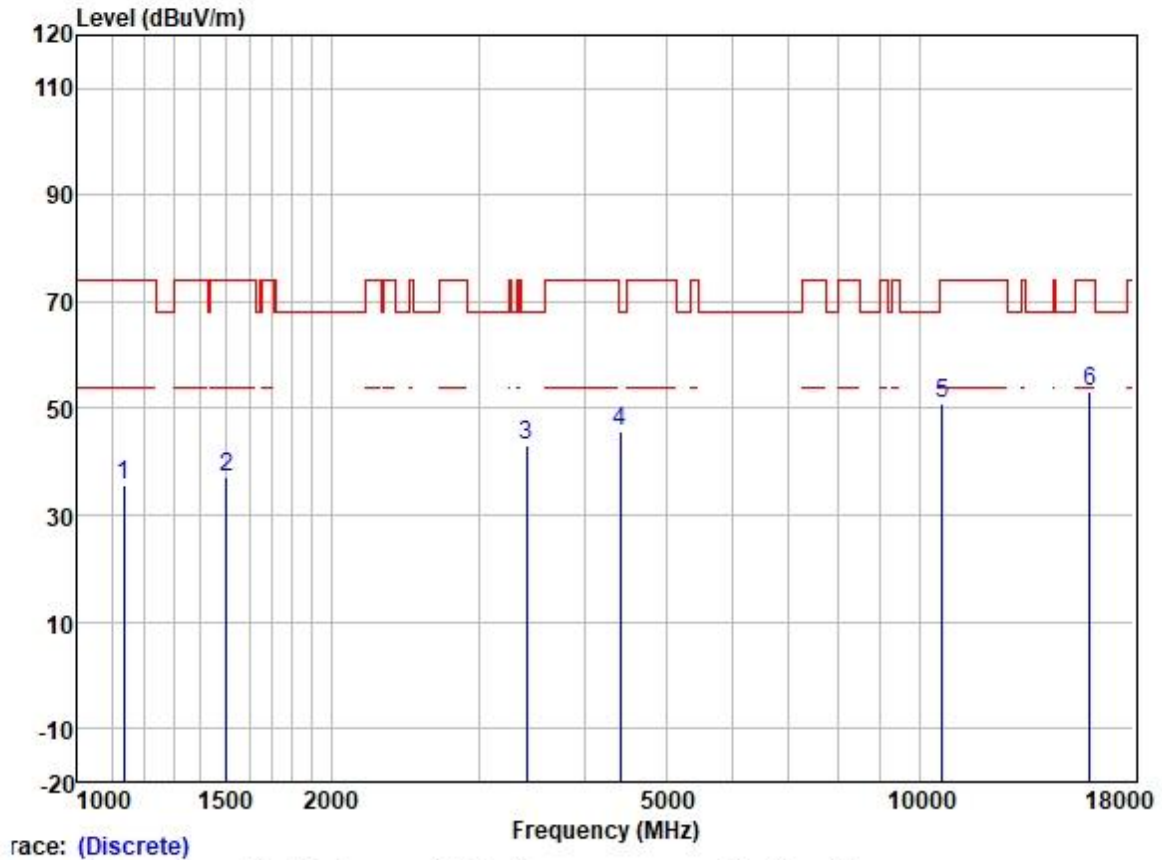


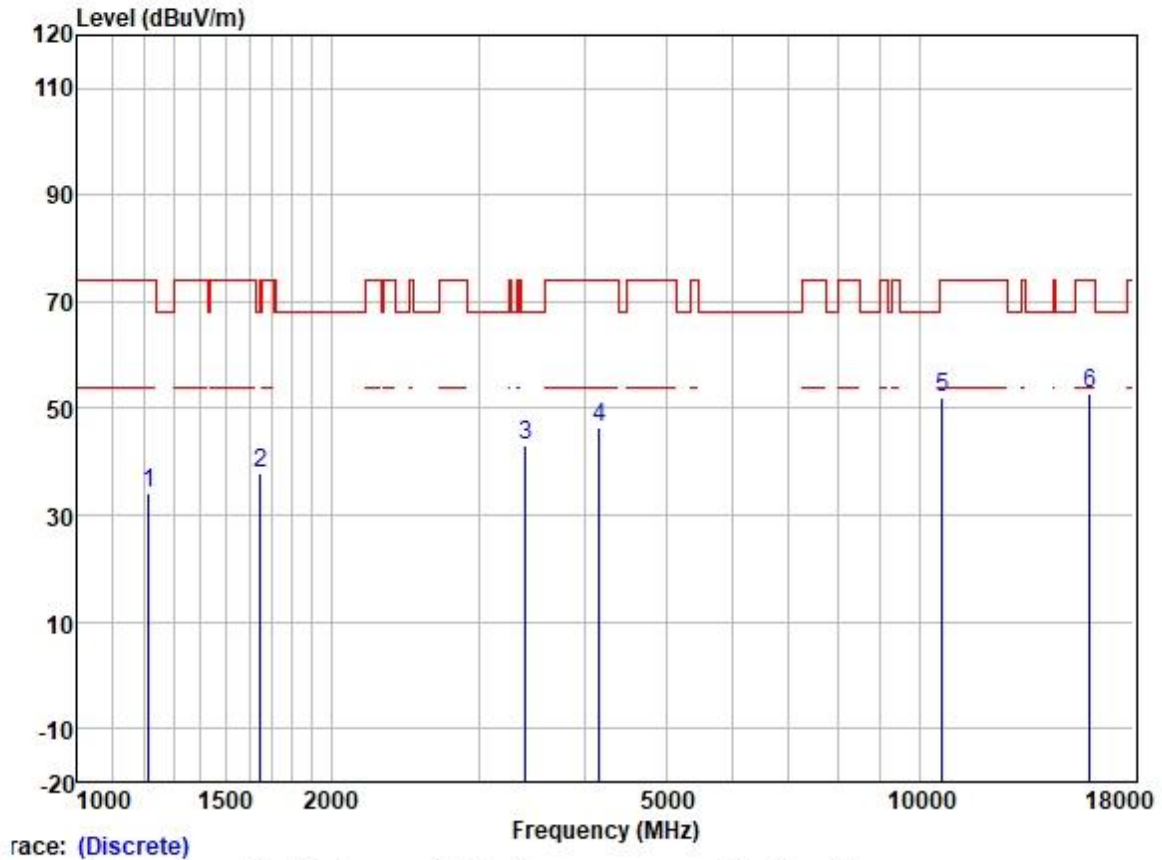
Test Mode: 05; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



Trace: (Discrete)

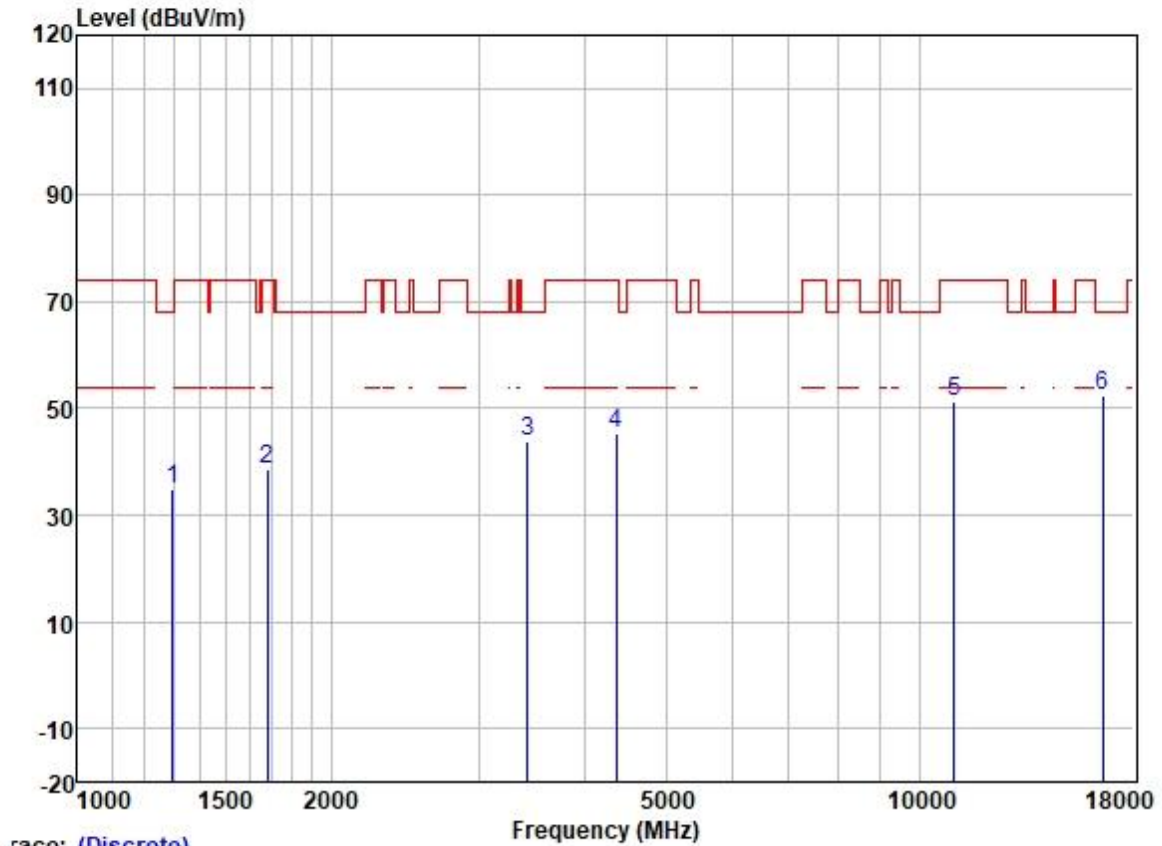
| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|------------|----------------|------------|---------------|-------------|------------|-----------|-----------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1135.617 | 47.48 | 24.45 | 2.25 | 38.43 | 35.75 | 74.00 | -38.25 | HORIZONTAL Peak |
| 2 | 1503.119 | 46.77 | 25.50 | 2.80 | 38.10 | 36.97 | 74.00 | -37.03 | HORIZONTAL Peak |
| 3 | 3415.787 | 46.94 | 28.85 | 4.13 | 36.97 | 42.95 | 68.20 | -25.25 | HORIZONTAL Peak |
| 4 | 4417.841 | 47.16 | 30.70 | 4.74 | 36.81 | 45.79 | 68.20 | -22.41 | HORIZONTAL Peak |
| 5 | 10640.000 | 41.09 | 39.63 | 7.48 | 37.33 | 50.87 | 74.00 | -23.13 | HORIZONTAL Peak |
| 6 | 15960.000 | 40.18 | 38.37 | 9.85 | 35.40 | 53.00 | 74.00 | -21.00 | HORIZONTAL Peak |

Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



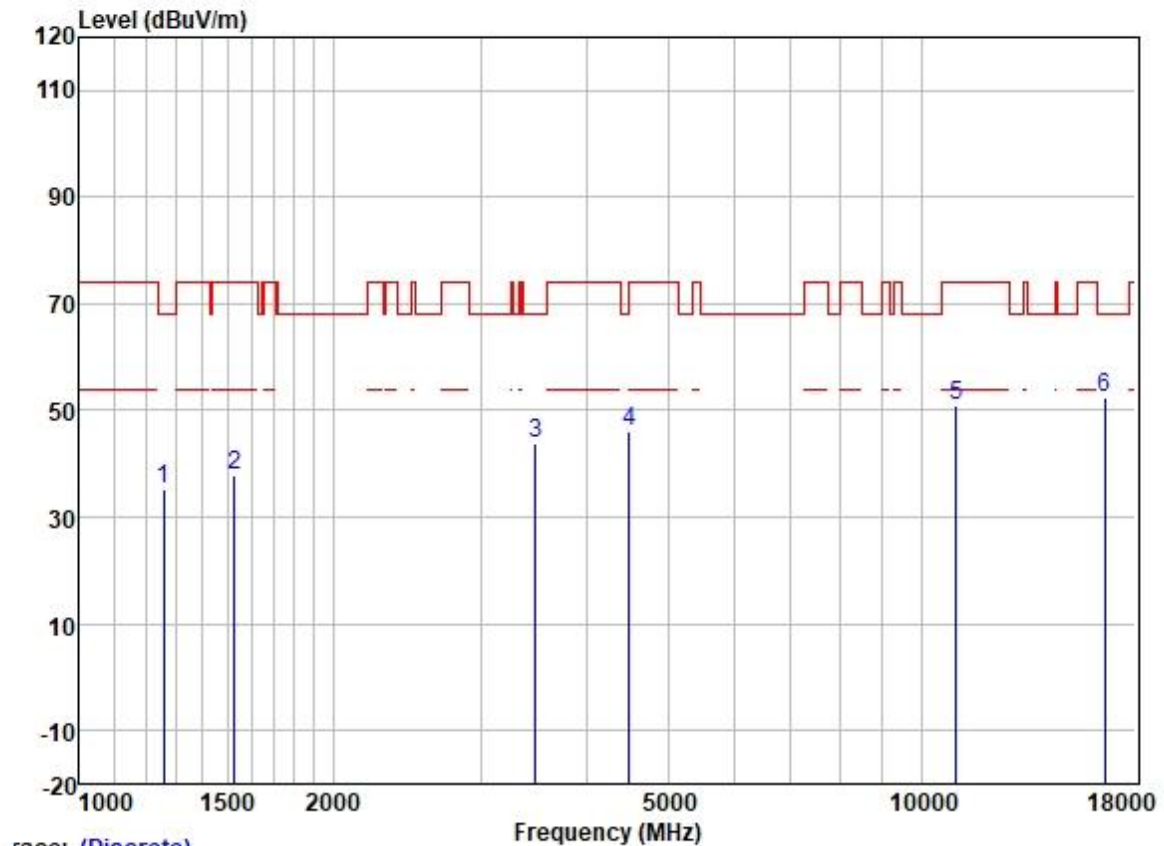
| | | ReadAntenna | | Cable | Preamp | | Limit | Over | | |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1213.677 | 45.25 | 24.77 | 2.32 | 38.37 | 33.97 | 74.00 | -40.03 | VERTICAL | Peak |
| 2 | 1648.778 | 47.50 | 25.63 | 2.80 | 37.93 | 38.00 | 68.20 | -30.20 | VERTICAL | Peak |
| 3 | 3405.929 | 47.25 | 28.85 | 4.11 | 36.98 | 43.23 | 68.20 | -24.97 | VERTICAL | Peak |
| 4 | 4169.698 | 48.61 | 30.09 | 4.60 | 36.80 | 46.50 | 74.00 | -27.50 | VERTICAL | Peak |
| 5 | 10640.000 | 42.23 | 39.63 | 7.48 | 37.33 | 52.01 | 74.00 | -21.99 | VERTICAL | Peak |
| 6 | 15960.000 | 40.05 | 38.37 | 9.85 | 35.40 | 52.87 | 74.00 | -21.13 | VERTICAL | Peak |

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



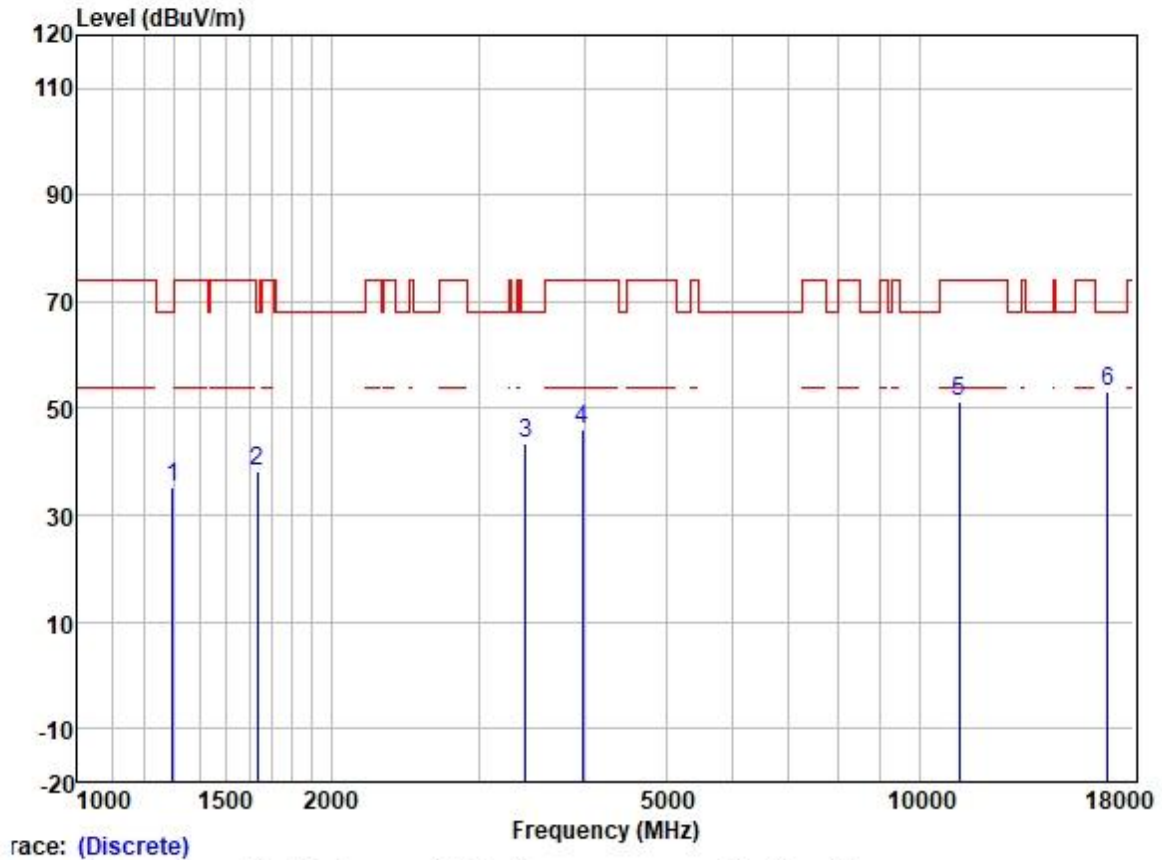
| | | ReadAntenna | | Cable | Preamp | | Limit | Over | | |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1297.103 | 45.60 | 25.19 | 2.58 | 38.31 | 35.06 | 68.20 | -33.14 | HORIZONTAL | Peak |
| 2 | 1682.477 | 47.91 | 25.68 | 2.80 | 37.91 | 38.48 | 74.00 | -35.52 | HORIZONTAL | Peak |
| 3 | 3425.675 | 47.93 | 28.86 | 4.15 | 36.97 | 43.97 | 68.20 | -24.23 | HORIZONTAL | Peak |
| 4 | 4367.058 | 46.95 | 30.62 | 4.68 | 36.81 | 45.44 | 74.00 | -28.56 | HORIZONTAL | Peak |
| 5 | 11000.000 | 40.85 | 40.10 | 7.71 | 37.25 | 51.41 | 74.00 | -22.59 | HORIZONTAL | Peak |
| 6 | 16500.000 | 38.76 | 39.60 | 9.44 | 35.38 | 52.42 | 68.20 | -15.78 | HORIZONTAL | Peak |

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



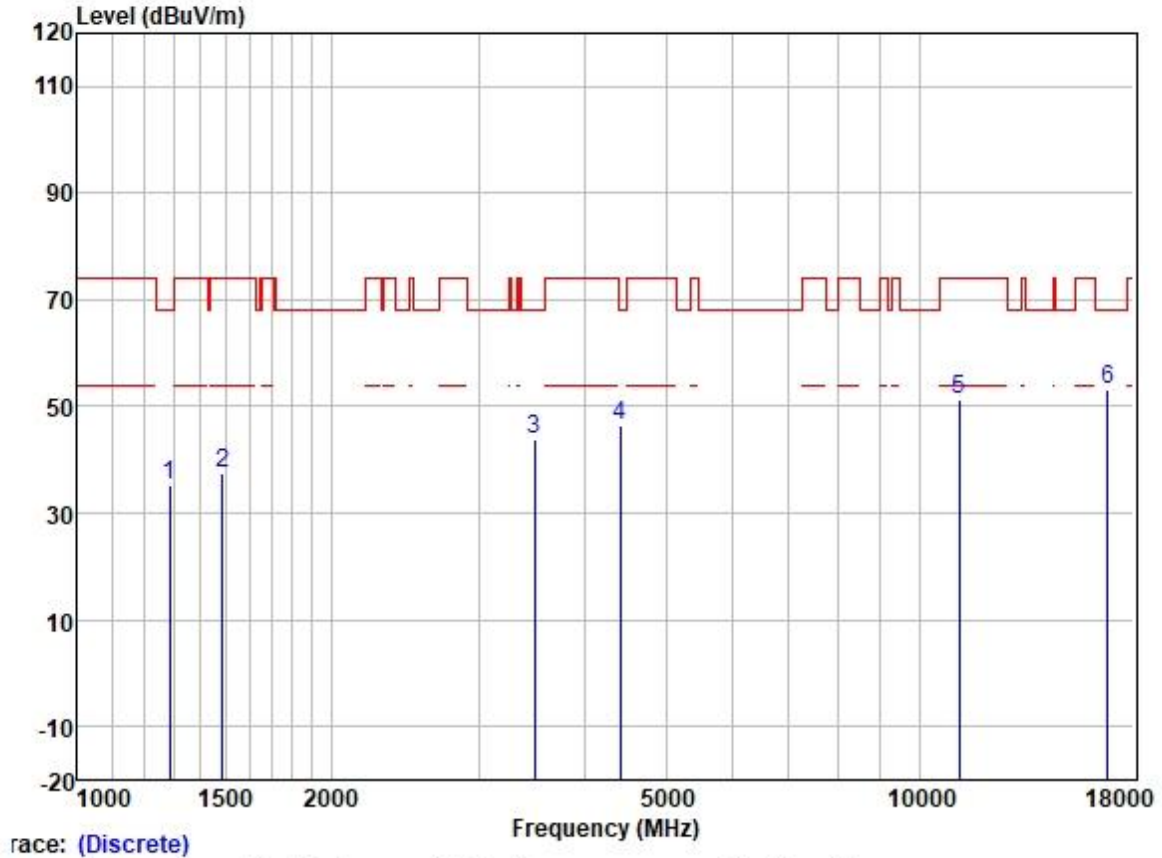
| | Freq | Read | Antenna | Cable | Preamp | Limit | Over | | |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
| | MHz | Level | Factor | Loss | Factor | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1260.149 | 46.24 | 25.07 | 2.40 | 38.35 | 35.36 | 68.20 | -32.84 | VERTICAL Peak |
| 2 | 1529.414 | 47.74 | 25.52 | 2.80 | 38.07 | 37.99 | 74.00 | -36.01 | VERTICAL Peak |
| 3 | 3485.601 | 47.51 | 28.89 | 4.27 | 36.95 | 43.72 | 68.20 | -24.48 | VERTICAL Peak |
| 4 | 4495.125 | 46.96 | 30.80 | 5.05 | 36.82 | 45.99 | 68.20 | -22.21 | VERTICAL Peak |
| 5 | 11000.000 | 40.41 | 40.10 | 7.71 | 37.25 | 50.97 | 74.00 | -23.03 | VERTICAL Peak |
| 6 | 16500.000 | 38.74 | 39.60 | 9.44 | 35.38 | 52.40 | 68.20 | -15.80 | VERTICAL Peak |

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



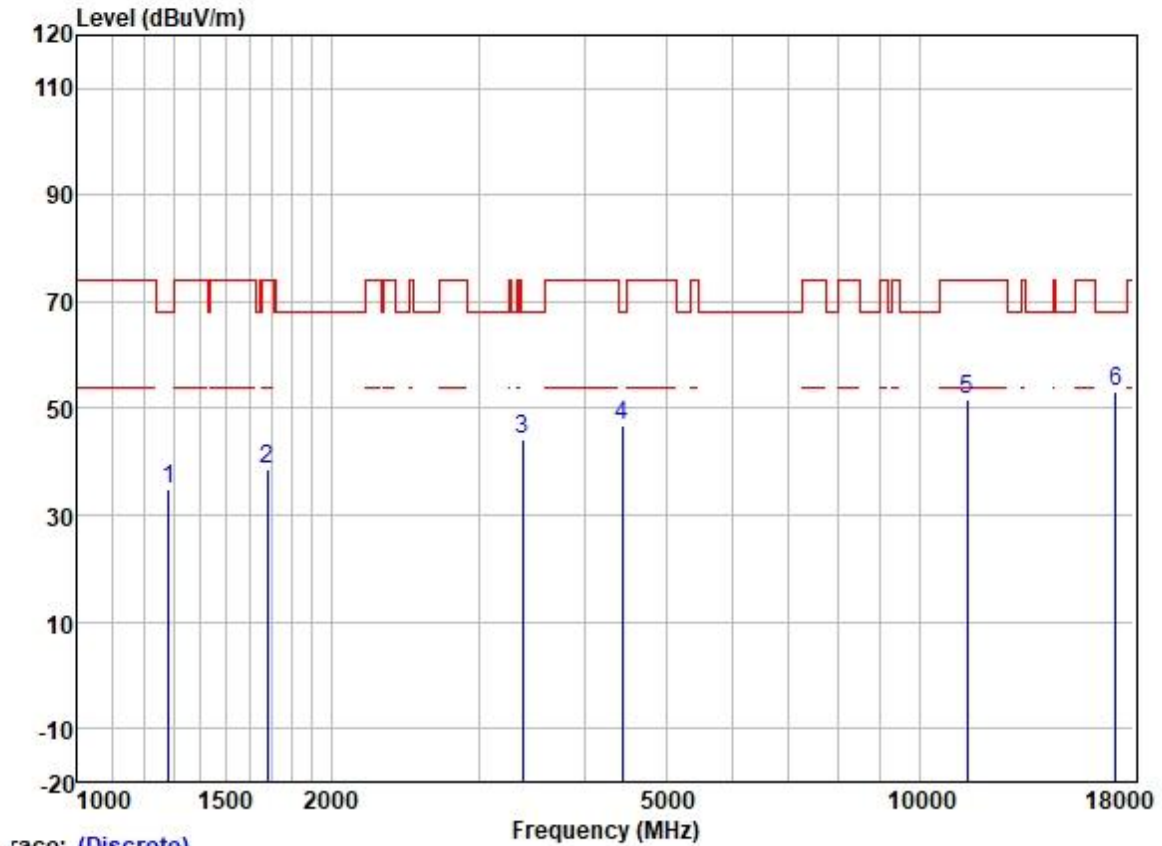
| | Freq | Read | Antenna | Cable | Preamp | Limit | Over | | |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|-----------------|
| | MHz | Level | Factor | Loss | Factor | Level | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1297.103 | 45.79 | 25.19 | 2.58 | 38.31 | 35.25 | 68.20 | -32.95 | HORIZONTAL Peak |
| 2 | 1634.543 | 47.67 | 25.62 | 2.80 | 37.95 | 38.14 | 68.20 | -30.06 | HORIZONTAL Peak |
| 3 | 3405.929 | 47.39 | 28.85 | 4.11 | 36.98 | 43.37 | 68.20 | -24.83 | HORIZONTAL Peak |
| 4 | 3981.257 | 48.67 | 29.78 | 4.60 | 36.81 | 46.24 | 74.00 | -27.76 | HORIZONTAL Peak |
| 5 | 11160.000 | 40.68 | 40.04 | 7.90 | 37.21 | 51.41 | 74.00 | -22.59 | HORIZONTAL Peak |
| 6 | 16740.000 | 38.60 | 40.49 | 9.41 | 35.37 | 53.13 | 68.20 | -15.07 | HORIZONTAL Peak |

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



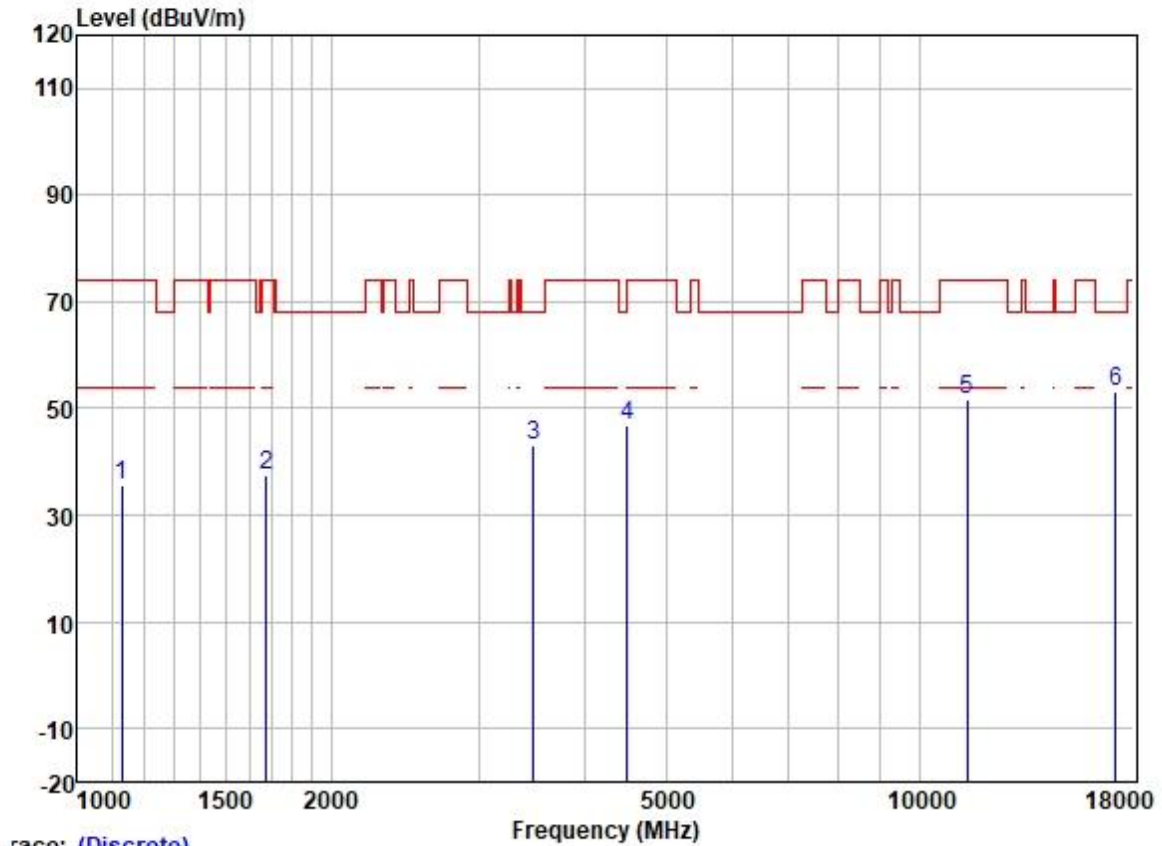
| | Freq | Read | Antenna | Cable | Preamp | Limit | Over | | |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
| | MHz | Level | Factor | Loss | Factor | Level | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1285.904 | 45.84 | 25.16 | 2.53 | 38.33 | 35.20 | 68.20 | -33.00 | VERTICAL Peak |
| 2 | 1485.841 | 47.45 | 25.49 | 2.78 | 38.13 | 37.59 | 74.00 | -36.41 | VERTICAL Peak |
| 3 | 3495.691 | 47.42 | 28.90 | 4.30 | 36.94 | 43.68 | 68.20 | -24.52 | VERTICAL Peak |
| 4 | 4417.841 | 47.65 | 30.70 | 4.74 | 36.81 | 46.28 | 68.20 | -21.92 | VERTICAL Peak |
| 5 | 11160.000 | 40.61 | 40.04 | 7.90 | 37.21 | 51.34 | 74.00 | -22.66 | VERTICAL Peak |
| 6 | 16740.000 | 38.48 | 40.49 | 9.41 | 35.37 | 53.01 | 68.20 | -15.19 | VERTICAL Peak |

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



| | 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 | dB | | |
| 1 | 1282.193 | 45.58 | 25.15 | 2.52 | 38.33 | 34.92 | 68.20 | -33.28 | HORIZONTAL Peak |
| 2 | 1682.477 | 48.12 | 25.68 | 2.80 | 37.91 | 38.69 | 74.00 | -35.31 | HORIZONTAL Peak |
| 3 | 3376.523 | 48.13 | 28.83 | 4.09 | 36.99 | 44.06 | 68.20 | -24.14 | HORIZONTAL Peak |
| 4 | 4443.453 | 48.17 | 30.73 | 4.83 | 36.81 | 46.92 | 68.20 | -21.28 | HORIZONTAL Peak |
| 5 | 11400.000 | 40.49 | 39.94 | 8.28 | 37.16 | 51.55 | 74.00 | -22.45 | HORIZONTAL Peak |
| 6 | 17100.000 | 36.54 | 42.32 | 9.63 | 35.34 | 53.15 | 68.20 | -15.05 | HORIZONTAL Peak |

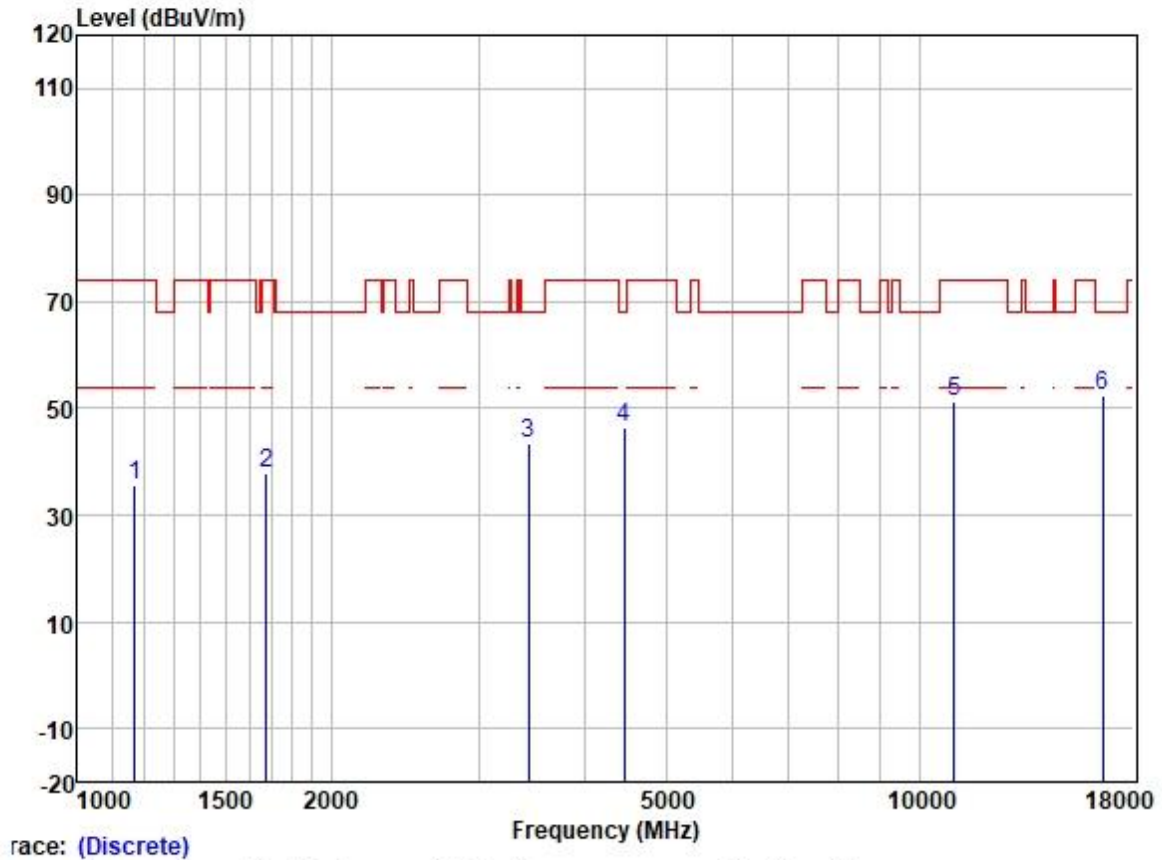
Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

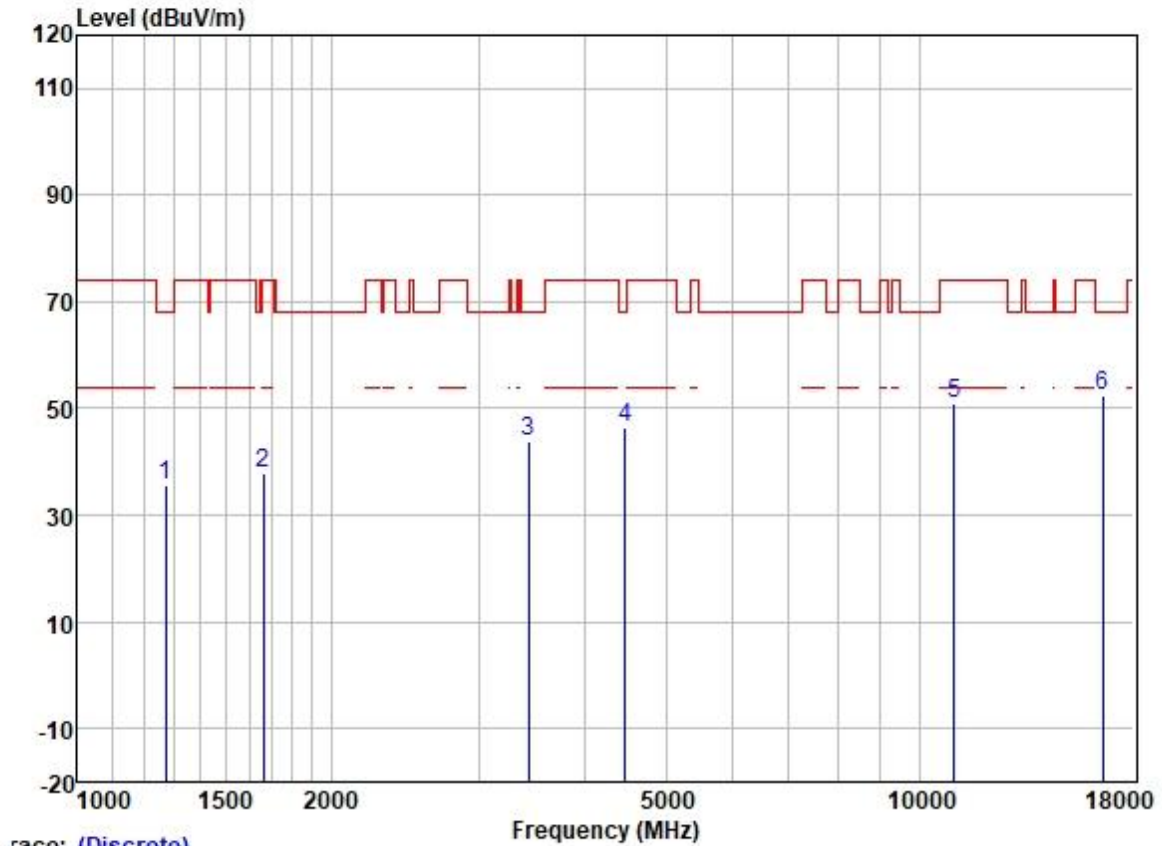
| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|------------|----------------|------------|---------------|-------------|--------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1129.072 | 47.42 | 24.43 | 2.20 | 38.43 | 35.62 | 74.00 -38.38 | VERTICAL | Peak |
| 2 | 1677.621 | 47.09 | 25.68 | 2.80 | 37.91 | 37.66 | 74.00 -36.34 | VERTICAL | Peak |
| 3 | 3485.601 | 47.00 | 28.89 | 4.27 | 36.95 | 43.21 | 68.20 -24.99 | VERTICAL | Peak |
| 4 | 4495.125 | 47.80 | 30.80 | 5.05 | 36.82 | 46.83 | 68.20 -21.37 | VERTICAL | Peak |
| 5 | 11400.000 | 40.46 | 39.94 | 8.28 | 37.16 | 51.52 | 74.00 -22.48 | VERTICAL | Peak |
| 6 | 17100.000 | 36.58 | 42.32 | 9.63 | 35.34 | 53.19 | 68.20 -15.01 | VERTICAL | Peak |

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



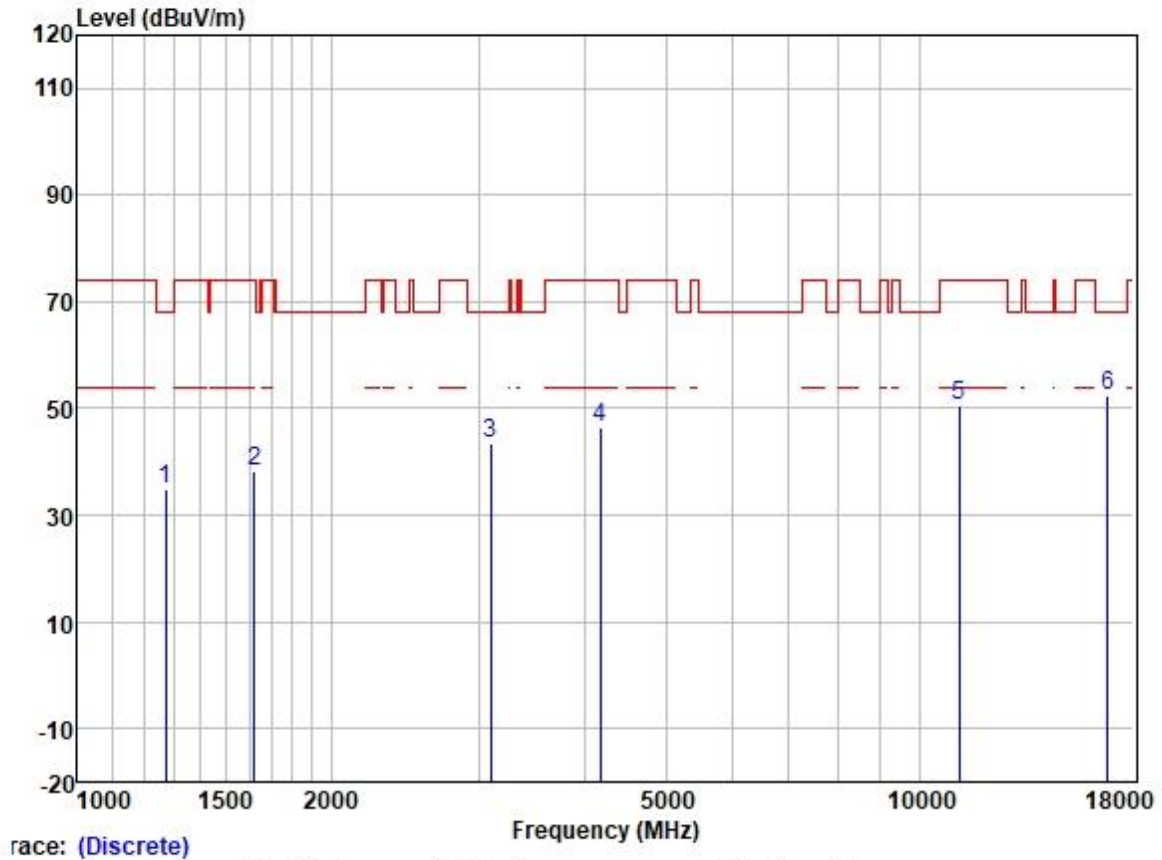
| | | Read | Antenna | Cable | Preamp | | Limit | Over | | |
|---|-----------|-------|---------|-------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1168.920 | 46.95 | 24.55 | 2.39 | 38.40 | 35.49 | 74.00 | -38.51 | HORIZONTAL | Peak |
| 2 | 1677.621 | 47.13 | 25.68 | 2.80 | 37.91 | 37.70 | 74.00 | -36.30 | HORIZONTAL | Peak |
| 3 | 3435.590 | 47.26 | 28.87 | 4.16 | 36.97 | 43.32 | 68.20 | -24.88 | HORIZONTAL | Peak |
| 4 | 4456.315 | 47.73 | 30.75 | 4.88 | 36.81 | 46.55 | 68.20 | -21.65 | HORIZONTAL | Peak |
| 5 | 11000.000 | 40.67 | 40.10 | 7.71 | 37.25 | 51.23 | 74.00 | -22.77 | HORIZONTAL | Peak |
| 6 | 16500.000 | 38.68 | 39.60 | 9.44 | 35.38 | 52.34 | 68.20 | -15.86 | HORIZONTAL | Peak |

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



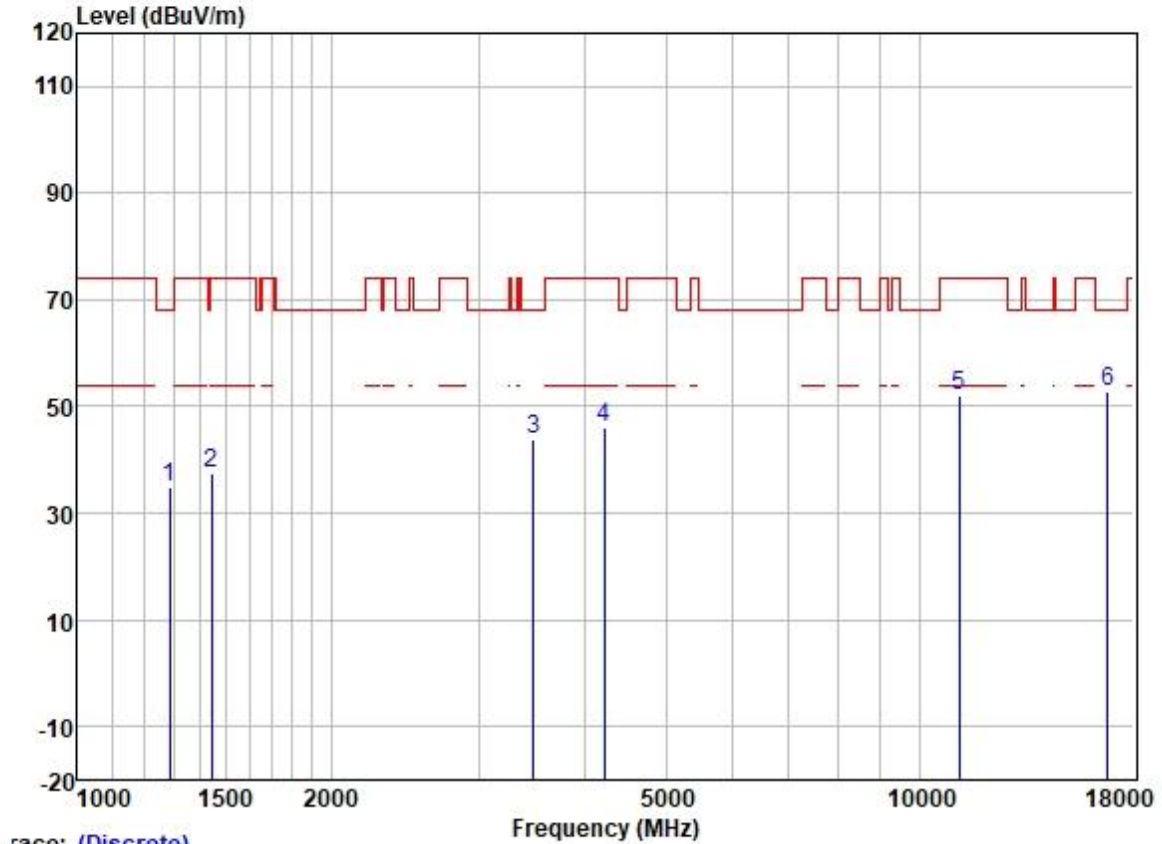
| | Freq | Read | Antenna | Cable | Preamp | Limit | Over | | |
|---|-----------|-------|---------|-------|--------|--------|-------|-----------|---------------|
| | MHz | Level | Factor | Loss | Factor | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1271.123 | 46.51 | 25.11 | 2.46 | 38.33 | 35.75 | 68.20 | -32.45 | VERTICAL Peak |
| 2 | 1663.137 | 47.28 | 25.65 | 2.80 | 37.91 | 37.82 | 74.00 | -36.18 | VERTICAL Peak |
| 3 | 3435.590 | 47.94 | 28.87 | 4.16 | 36.97 | 44.00 | 68.20 | -24.20 | VERTICAL Peak |
| 4 | 4469.214 | 47.59 | 30.77 | 4.93 | 36.81 | 46.48 | 68.20 | -21.72 | VERTICAL Peak |
| 5 | 11000.000 | 40.20 | 40.10 | 7.71 | 37.25 | 50.76 | 74.00 | -23.24 | VERTICAL Peak |
| 6 | 16500.000 | 38.60 | 39.60 | 9.44 | 35.38 | 52.26 | 68.20 | -15.94 | VERTICAL Peak |

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



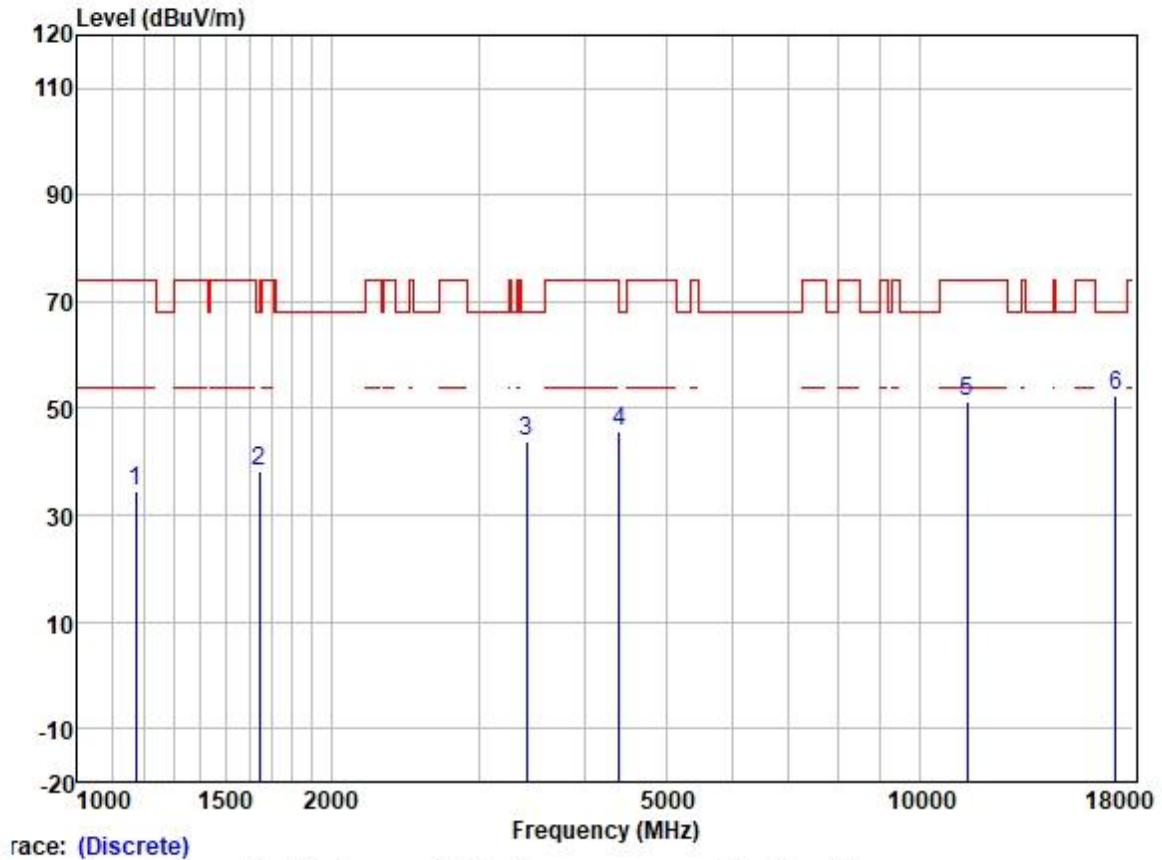
| | | ReadAntenna | | Cable | Preamp | | Limit | Over | | |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1271.123 | 45.62 | 25.11 | 2.46 | 38.33 | 34.86 | 68.20 | -33.34 | HORIZONTAL | Peak |
| 2 | 1620.431 | 47.76 | 25.60 | 2.80 | 37.95 | 38.21 | 74.00 | -35.79 | HORIZONTAL | Peak |
| 3 | 3096.075 | 48.21 | 28.47 | 3.90 | 37.16 | 43.42 | 68.20 | -24.78 | HORIZONTAL | Peak |
| 4 | 4181.768 | 48.70 | 30.12 | 4.60 | 36.80 | 46.62 | 74.00 | -27.38 | HORIZONTAL | Peak |
| 5 | 11160.000 | 39.89 | 40.04 | 7.90 | 37.21 | 50.62 | 74.00 | -23.38 | HORIZONTAL | Peak |
| 6 | 16740.000 | 38.02 | 40.49 | 9.41 | 35.37 | 52.55 | 68.20 | -15.65 | HORIZONTAL | Peak |

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



| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|------------|----------------|------------|---------------|-------------|------------|-----------|---------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1285.904 | 45.46 | 25.16 | 2.53 | 38.33 | 34.82 | 68.20 | -33.38 | VERTICAL Peak |
| 2 | 1443.509 | 47.45 | 25.44 | 2.69 | 38.17 | 37.41 | 74.00 | -36.59 | VERTICAL Peak |
| 3 | 3485.601 | 47.45 | 28.89 | 4.27 | 36.95 | 43.66 | 68.20 | -24.54 | VERTICAL Peak |
| 4 | 4230.396 | 48.05 | 30.26 | 4.61 | 36.81 | 46.11 | 74.00 | -27.89 | VERTICAL Peak |
| 5 | 11160.000 | 41.37 | 40.04 | 7.90 | 37.21 | 52.10 | 74.00 | -21.90 | VERTICAL Peak |
| 6 | 16740.000 | 38.44 | 40.49 | 9.41 | 35.37 | 52.97 | 68.20 | -15.23 | VERTICAL Peak |

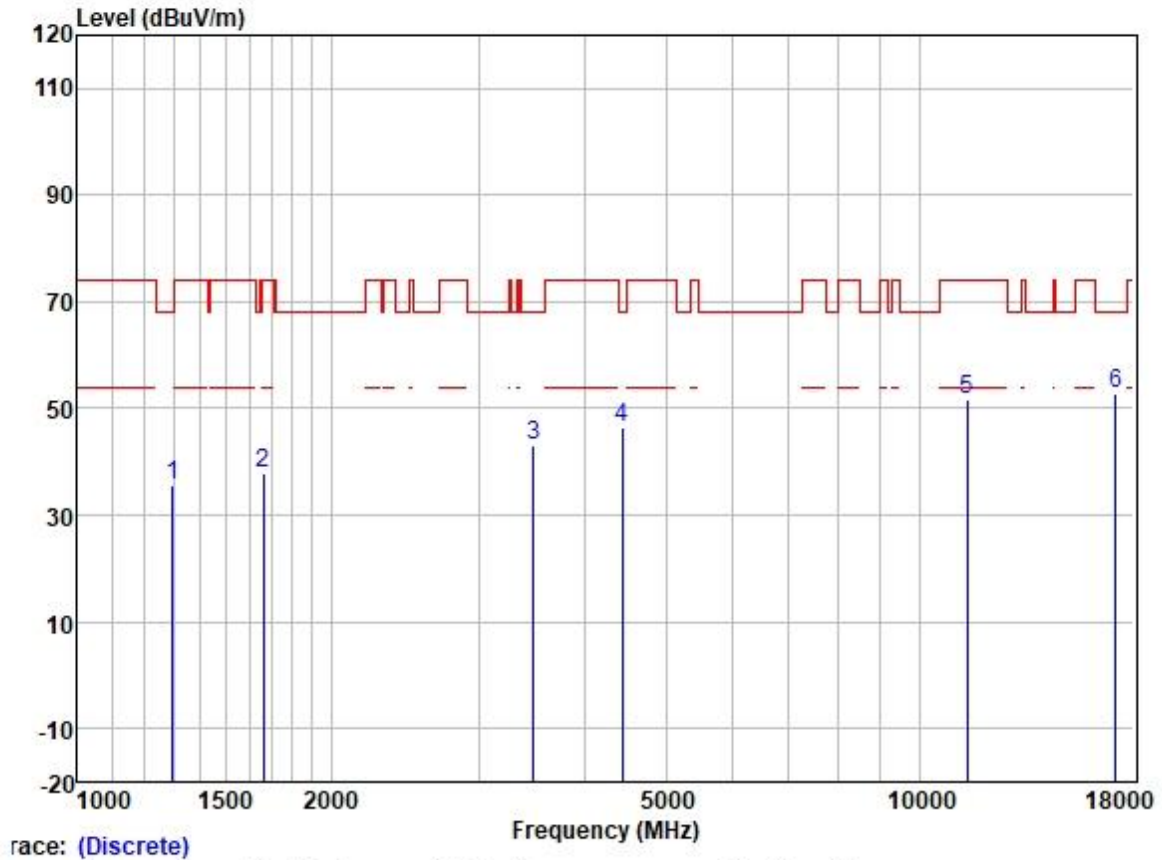
Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (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 | 1172.303 | 46.11 | 24.56 | 2.39 | 38.40 | 34.66 | 74.00 | -39.34 | HORIZONTAL | Peak |
| 2 | 1644.019 | 47.71 | 25.63 | 2.80 | 37.93 | 38.21 | 68.20 | -29.99 | HORIZONTAL | Peak |
| 3 | 3415.787 | 47.71 | 28.85 | 4.13 | 36.97 | 43.72 | 68.20 | -24.48 | HORIZONTAL | Peak |
| 4 | 4405.090 | 47.19 | 30.68 | 4.70 | 36.81 | 45.76 | 68.20 | -22.44 | HORIZONTAL | Peak |
| 5 | 11400.000 | 40.32 | 39.94 | 8.28 | 37.16 | 51.38 | 74.00 | -22.62 | HORIZONTAL | Peak |
| 6 | 17100.000 | 35.83 | 42.32 | 9.63 | 35.34 | 52.44 | 68.20 | -15.76 | HORIZONTAL | Peak |

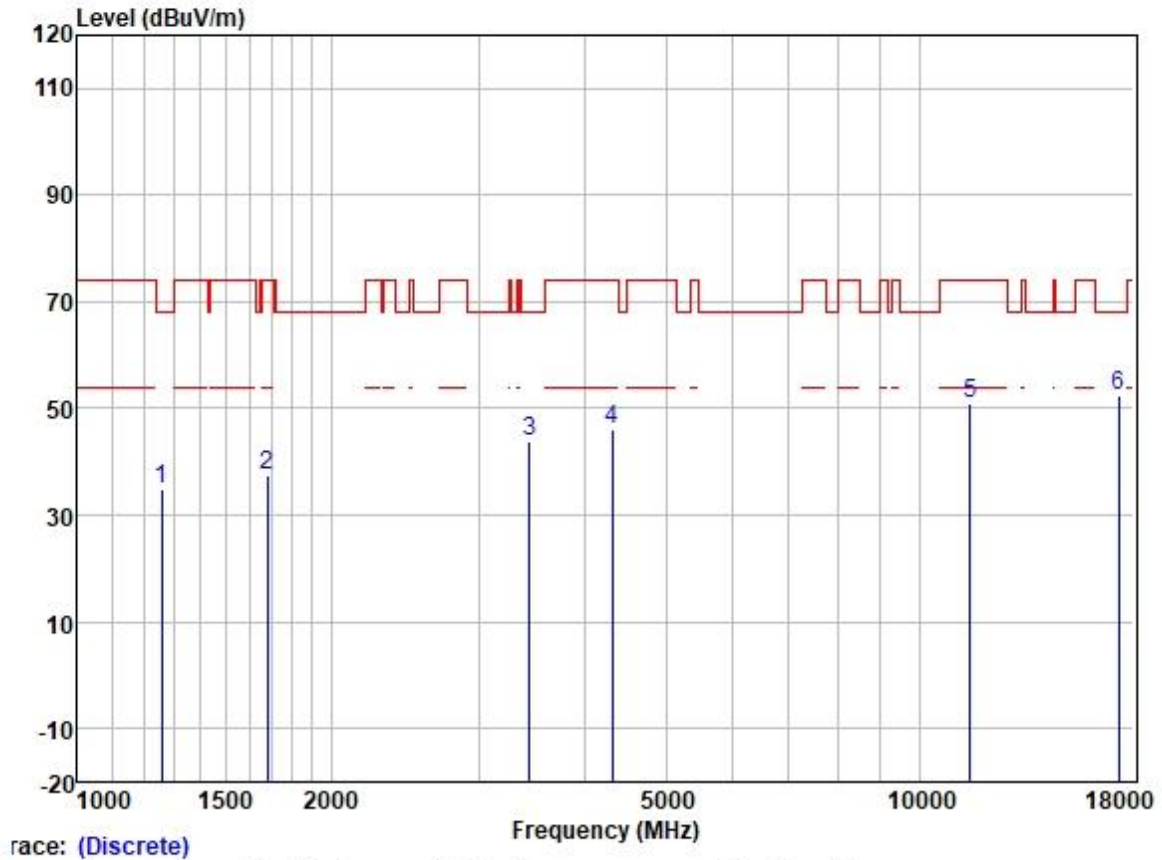
Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (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 | 1297.103 | 46.01 | 25.19 | 2.58 | 38.31 | 35.47 | 68.20 | -32.73 | VERTICAL | Peak |
| 2 | 1663.137 | 47.32 | 25.65 | 2.80 | 37.91 | 37.86 | 74.00 | -36.14 | VERTICAL | Peak |
| 3 | 3485.601 | 46.80 | 28.89 | 4.27 | 36.95 | 43.01 | 68.20 | -25.19 | VERTICAL | Peak |
| 4 | 4443.453 | 47.67 | 30.73 | 4.83 | 36.81 | 46.42 | 68.20 | -21.78 | VERTICAL | Peak |
| 5 | 11400.000 | 40.64 | 39.94 | 8.28 | 37.16 | 51.70 | 74.00 | -22.30 | VERTICAL | Peak |
| 6 | 17100.000 | 36.09 | 42.32 | 9.63 | 35.34 | 52.70 | 68.20 | -15.50 | VERTICAL | Peak |

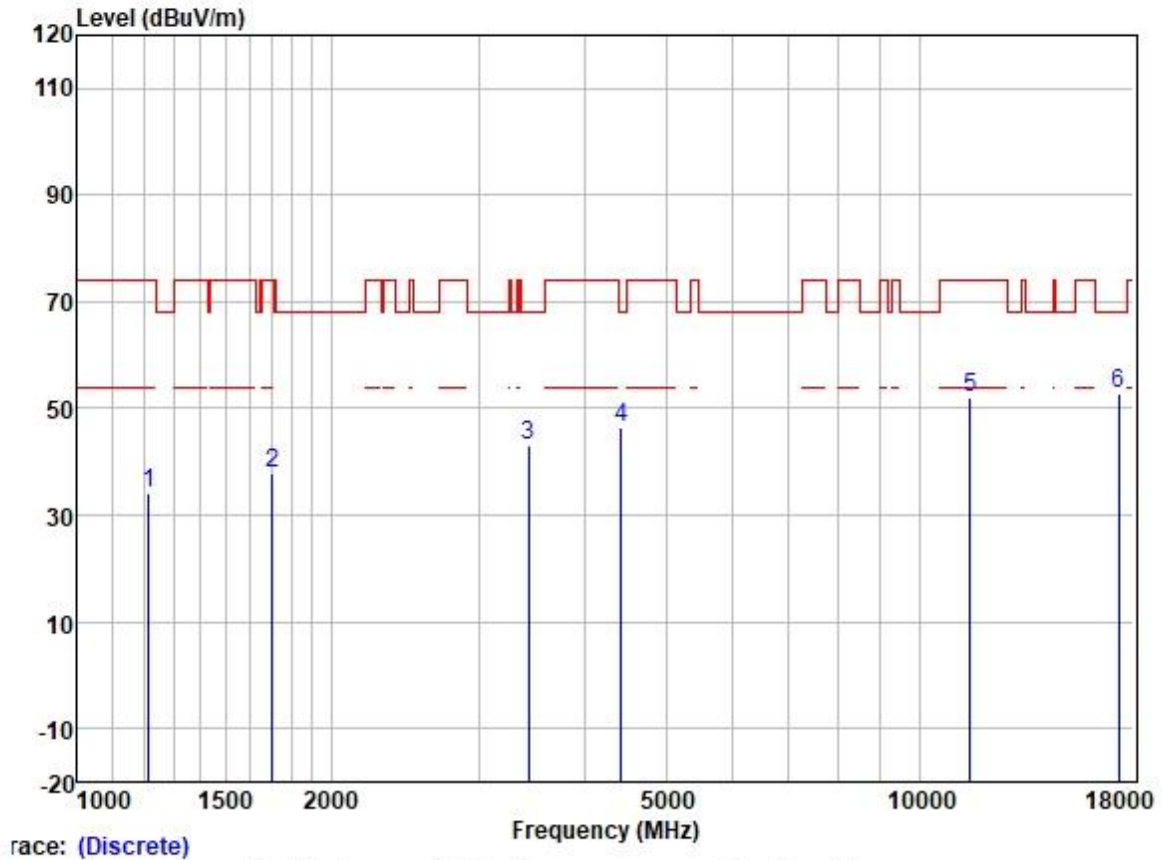
Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

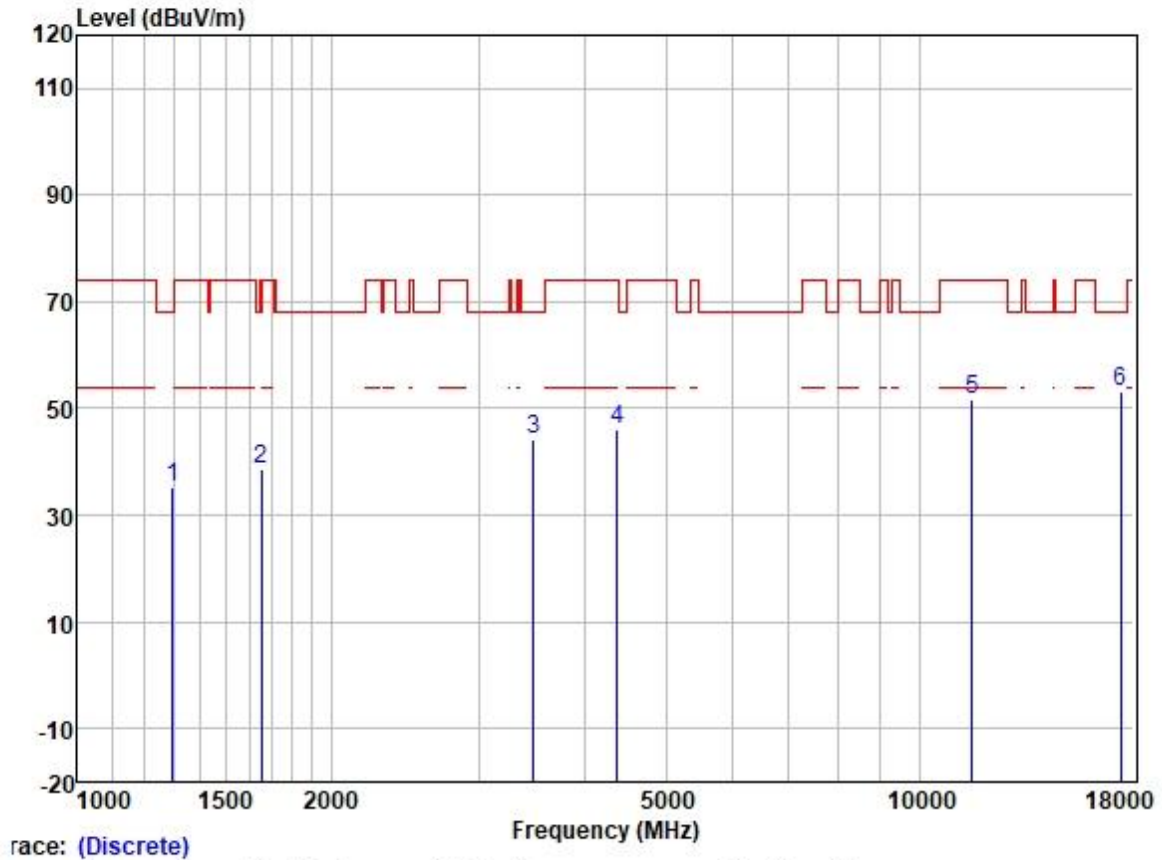
| | | ReadAntenna | | Cable | Preamp | | Limit | Over | | |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1260.149 | 45.93 | 25.07 | 2.40 | 38.35 | 35.05 | 68.20 | -33.15 | HORIZONTAL | Peak |
| 2 | 1682.477 | 46.77 | 25.68 | 2.80 | 37.91 | 37.34 | 74.00 | -36.66 | HORIZONTAL | Peak |
| 3 | 3445.535 | 47.63 | 28.87 | 4.18 | 36.96 | 43.72 | 68.20 | -24.48 | HORIZONTAL | Peak |
| 4 | 4316.859 | 47.54 | 30.51 | 4.66 | 36.81 | 45.90 | 74.00 | -28.10 | HORIZONTAL | Peak |
| 5 | 11490.000 | 39.68 | 39.90 | 8.41 | 37.15 | 50.84 | 74.00 | -23.16 | HORIZONTAL | Peak |
| 6 | 17235.000 | 34.81 | 43.01 | 10.08 | 35.33 | 52.57 | 68.20 | -15.63 | HORIZONTAL | Peak |

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



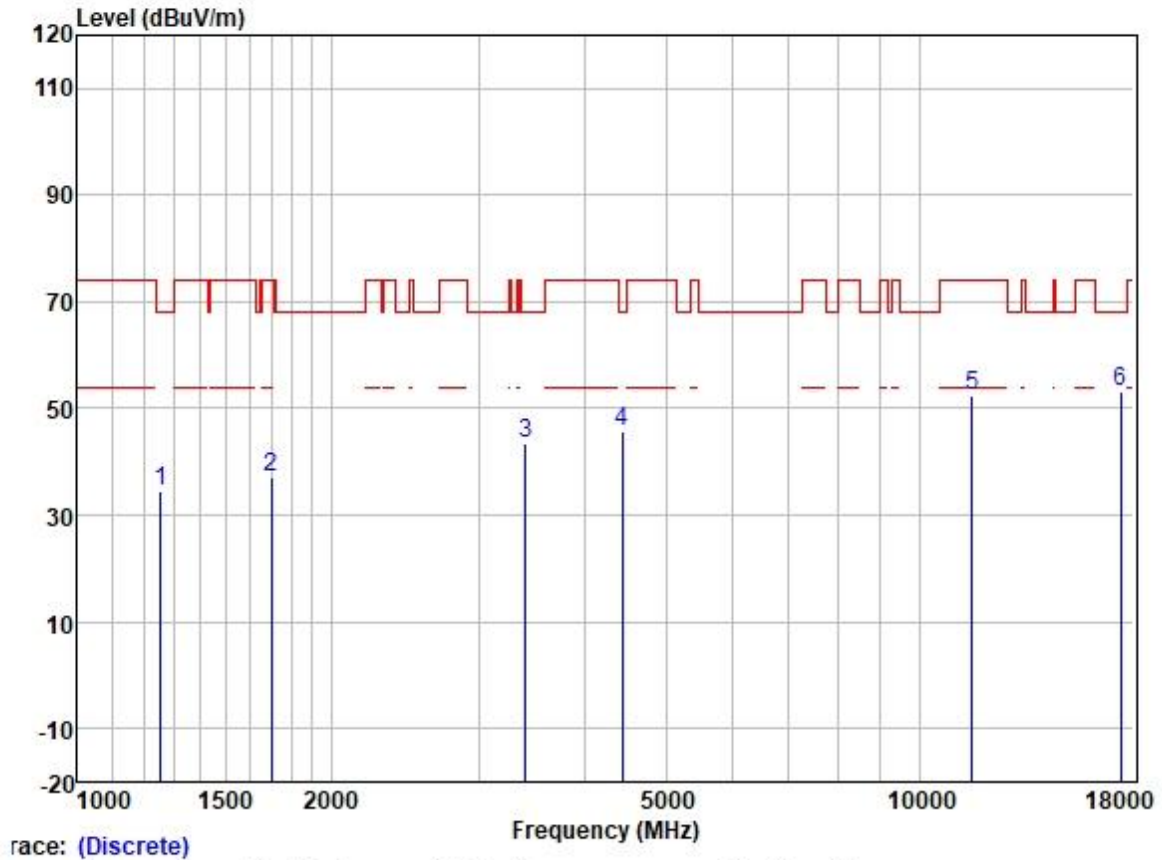
| | | ReadAntenna | | Cable | Preamp | | Limit | Over | | |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1213.677 | 45.51 | 24.77 | 2.32 | 38.37 | 34.23 | 74.00 | -39.77 | VERTICAL | Peak |
| 2 | 1702.042 | 47.15 | 25.72 | 2.80 | 37.89 | 37.78 | 74.00 | -36.22 | VERTICAL | Peak |
| 3 | 3435.590 | 46.88 | 28.87 | 4.16 | 36.97 | 42.94 | 68.20 | -25.26 | VERTICAL | Peak |
| 4 | 4430.628 | 47.62 | 30.72 | 4.78 | 36.81 | 46.31 | 68.20 | -21.89 | VERTICAL | Peak |
| 5 | 11490.000 | 40.91 | 39.90 | 8.41 | 37.15 | 52.07 | 74.00 | -21.93 | VERTICAL | Peak |
| 6 | 17235.000 | 34.95 | 43.01 | 10.08 | 35.33 | 52.71 | 68.20 | -15.49 | VERTICAL | Peak |

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; 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 | 1297.103 | 45.87 | 25.19 | 2.58 | 38.31 | 35.33 | 68.20 | -32.87 | HORIZONTAL | Peak |
| 2 | 1653.550 | 48.24 | 25.64 | 2.80 | 37.93 | 38.75 | 68.20 | -29.45 | HORIZONTAL | Peak |
| 3 | 3485.601 | 48.02 | 28.89 | 4.27 | 36.95 | 44.23 | 68.20 | -23.97 | HORIZONTAL | Peak |
| 4 | 4379.699 | 47.52 | 30.64 | 4.69 | 36.81 | 46.04 | 74.00 | -27.96 | HORIZONTAL | Peak |
| 5 | 11570.000 | 40.75 | 39.78 | 8.38 | 37.14 | 51.77 | 74.00 | -22.23 | HORIZONTAL | Peak |
| 6 | 17355.000 | 34.53 | 43.40 | 10.39 | 35.32 | 53.00 | 68.20 | -15.20 | HORIZONTAL | Peak |

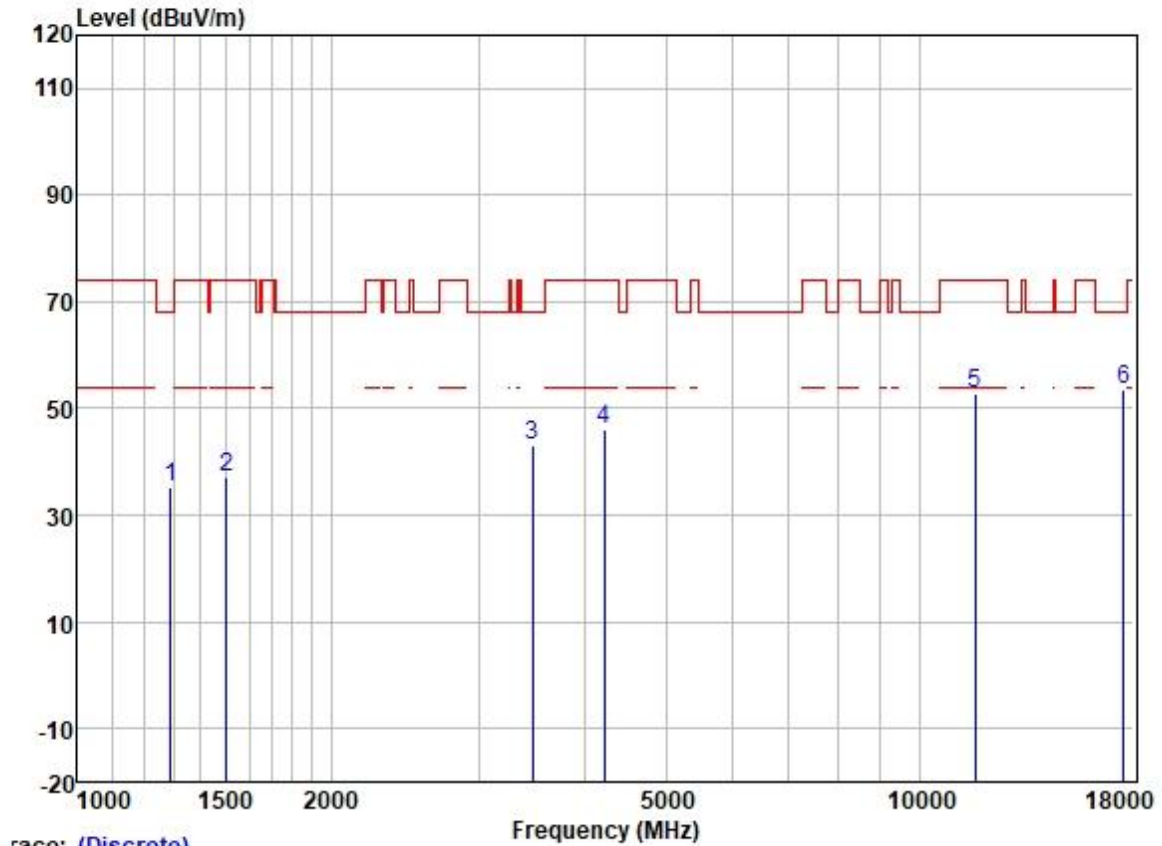
Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



race: (Discrete)

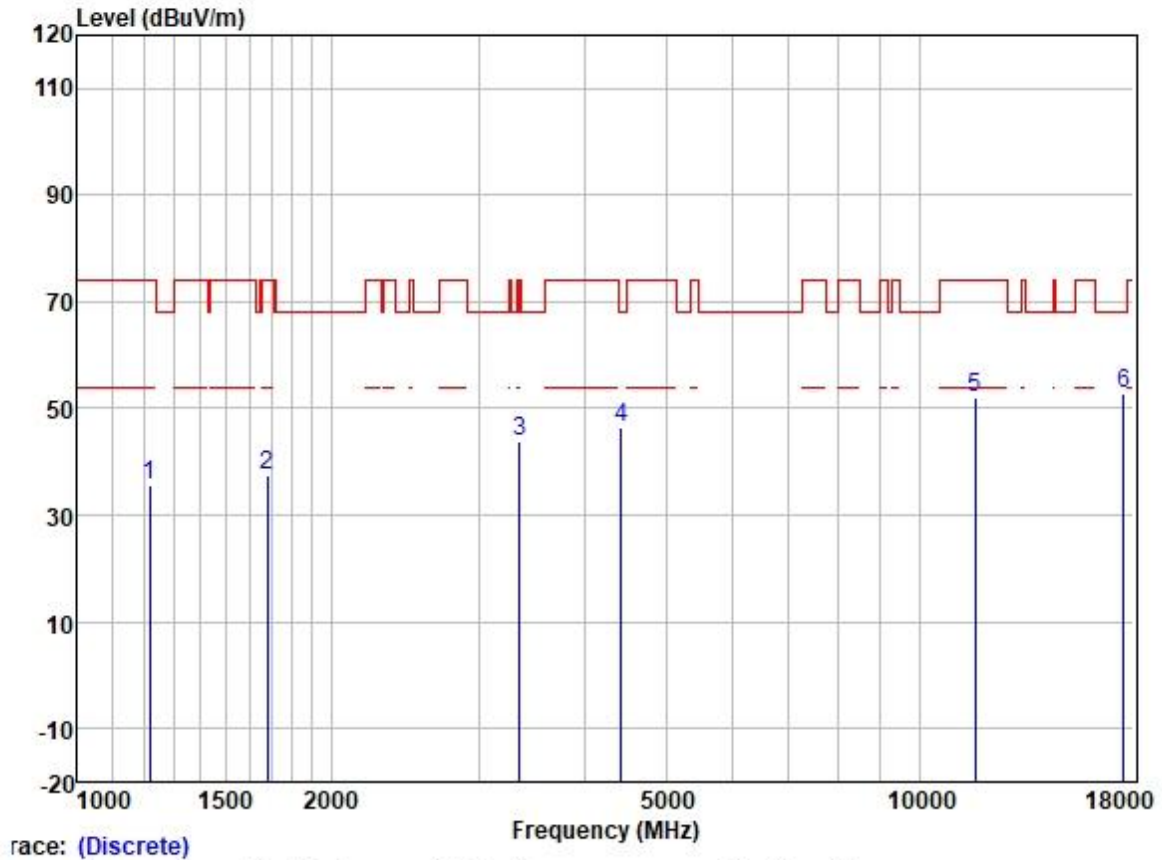
| | Freq | Read | Antenna | Cable | Preamp | Limit | Over | | |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
| | MHz | Level | Factor | Loss | Factor | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1256.512 | 45.31 | 25.05 | 2.38 | 38.35 | 34.39 | 68.20 | -33.81 | VERTICAL Peak |
| 2 | 1697.129 | 46.64 | 25.71 | 2.80 | 37.89 | 37.26 | 74.00 | -36.74 | VERTICAL Peak |
| 3 | 3405.929 | 47.63 | 28.85 | 4.11 | 36.98 | 43.61 | 68.20 | -24.59 | VERTICAL Peak |
| 4 | 4443.453 | 47.06 | 30.73 | 4.83 | 36.81 | 45.81 | 68.20 | -22.39 | VERTICAL Peak |
| 5 | 11570.000 | 41.53 | 39.78 | 8.38 | 37.14 | 52.55 | 74.00 | -21.45 | VERTICAL Peak |
| 6 | 17355.000 | 34.87 | 43.40 | 10.39 | 35.32 | 53.34 | 68.20 | -14.86 | VERTICAL Peak |

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



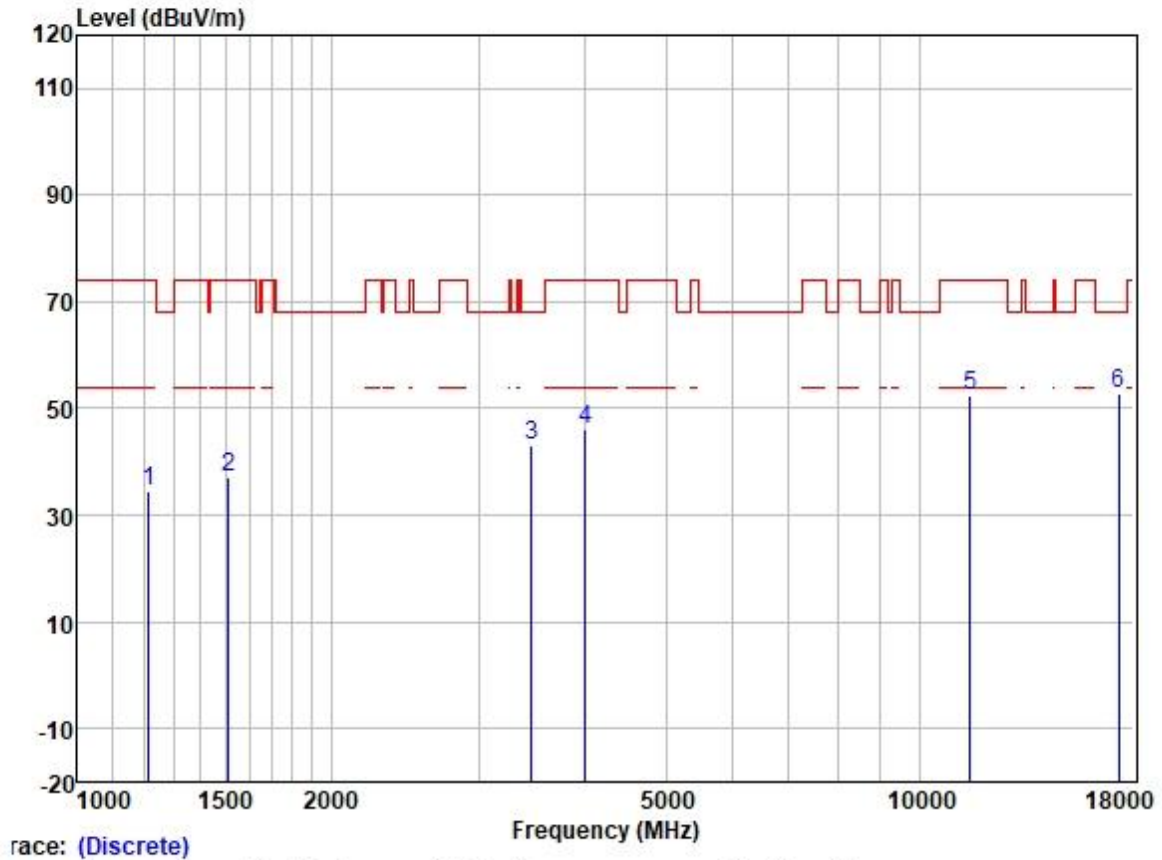
| | Freq | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level | Limit | Over Limit | Pol/Phase | Remark |
|---|-----------|------------|----------------|------------|---------------------|--------|--------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1289.627 | 45.87 | 25.17 | 2.55 | 38.31 | 35.28 | 68.20 | -32.92 | HORIZONTAL | Peak |
| 2 | 1503.119 | 46.77 | 25.50 | 2.80 | 38.10 | 36.97 | 74.00 | -37.03 | HORIZONTAL | Peak |
| 3 | 3475.541 | 47.08 | 28.89 | 4.25 | 36.95 | 43.27 | 68.20 | -24.93 | HORIZONTAL | Peak |
| 4 | 4230.396 | 48.18 | 30.26 | 4.61 | 36.81 | 46.24 | 74.00 | -27.76 | HORIZONTAL | Peak |
| 5 | 11650.000 | 41.83 | 39.65 | 8.35 | 37.13 | 52.70 | 74.00 | -21.30 | HORIZONTAL | Peak |
| 6 | 17475.000 | 34.17 | 43.90 | 10.77 | 35.32 | 53.52 | 68.20 | -14.68 | HORIZONTAL | Peak |

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



| | | 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 | 1217.190 | 46.83 | 24.79 | 2.32 | 38.37 | 35.57 | 74.00 | -38.43 | VERTICAL | Peak |
| 2 | 1682.477 | 47.00 | 25.68 | 2.80 | 37.91 | 37.57 | 74.00 | -36.43 | VERTICAL | Peak |
| 3 | 3347.371 | 48.03 | 28.80 | 4.08 | 37.01 | 43.90 | 74.00 | -30.10 | VERTICAL | Peak |
| 4 | 4430.628 | 47.60 | 30.72 | 4.78 | 36.81 | 46.29 | 68.20 | -21.91 | VERTICAL | Peak |
| 5 | 11650.000 | 41.08 | 39.65 | 8.35 | 37.13 | 51.95 | 74.00 | -22.05 | VERTICAL | Peak |
| 6 | 17475.000 | 33.45 | 43.90 | 10.77 | 35.32 | 52.80 | 68.20 | -15.40 | VERTICAL | Peak |

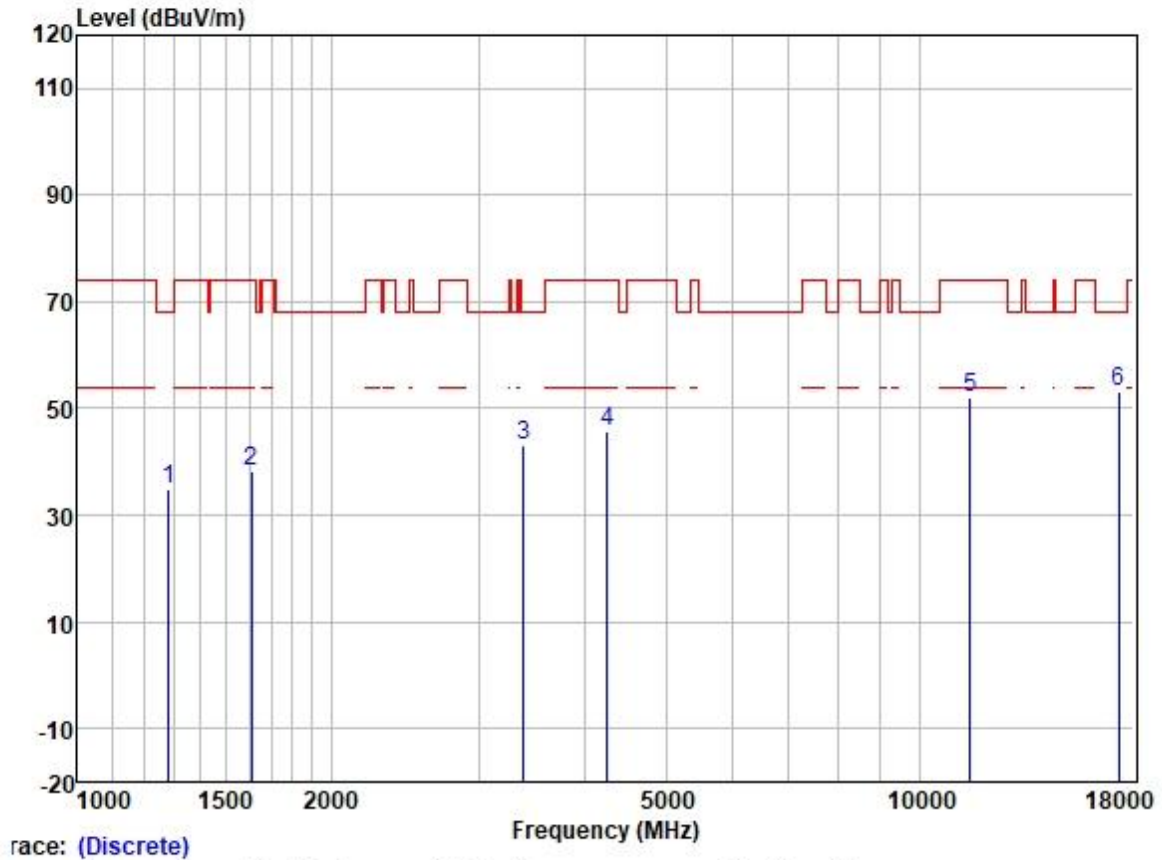
Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (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 | 1213.677 | 45.85 | 24.77 | 2.32 | 38.37 | 34.57 | 74.00 | -39.43 | HORIZONTAL | Peak |
| 2 | 1511.833 | 46.96 | 25.51 | 2.80 | 38.10 | 37.17 | 74.00 | -36.83 | HORIZONTAL | Peak |
| 3 | 3465.510 | 47.01 | 28.88 | 4.22 | 36.95 | 43.16 | 68.20 | -25.04 | HORIZONTAL | Peak |
| 4 | 4015.929 | 48.36 | 29.82 | 4.60 | 36.80 | 45.98 | 74.00 | -28.02 | HORIZONTAL | Peak |
| 5 | 11490.000 | 41.22 | 39.90 | 8.41 | 37.15 | 52.38 | 74.00 | -21.62 | HORIZONTAL | Peak |
| 6 | 17235.000 | 35.07 | 43.01 | 10.08 | 35.33 | 52.83 | 68.20 | -15.37 | HORIZONTAL | Peak |

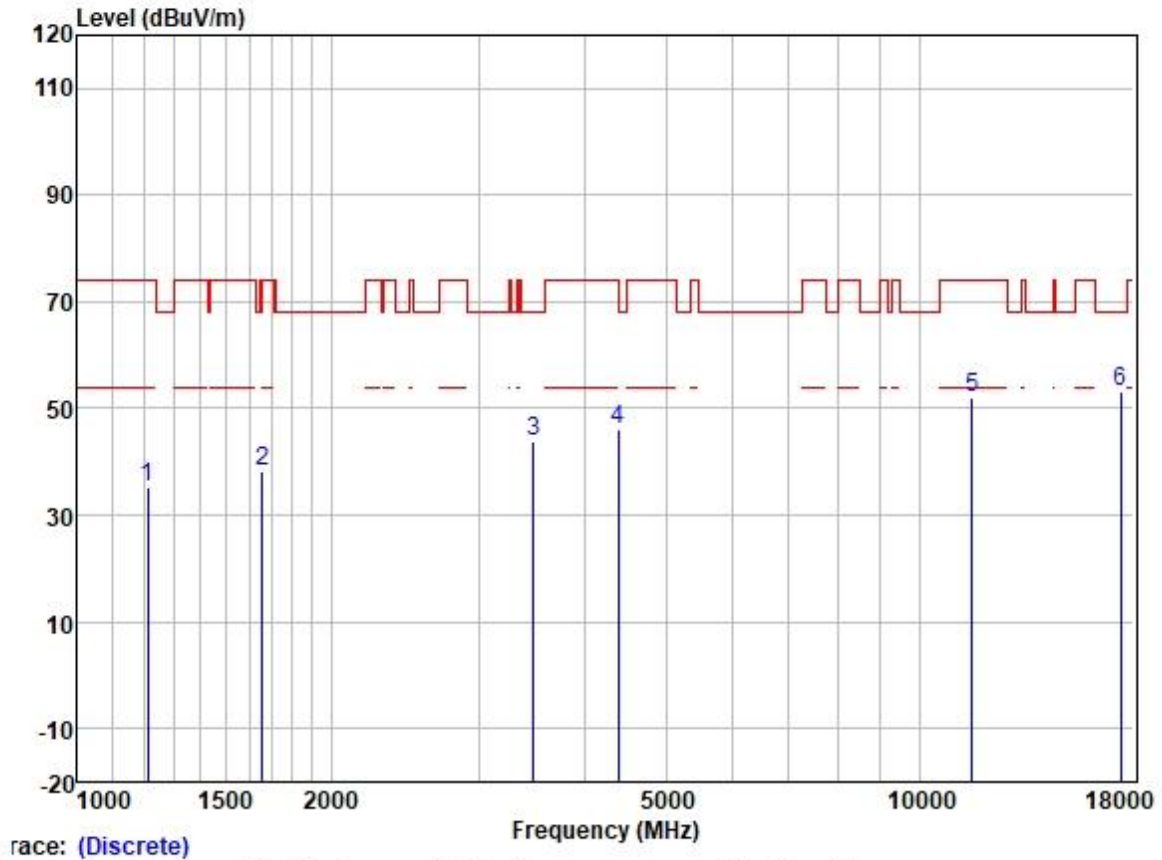
Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

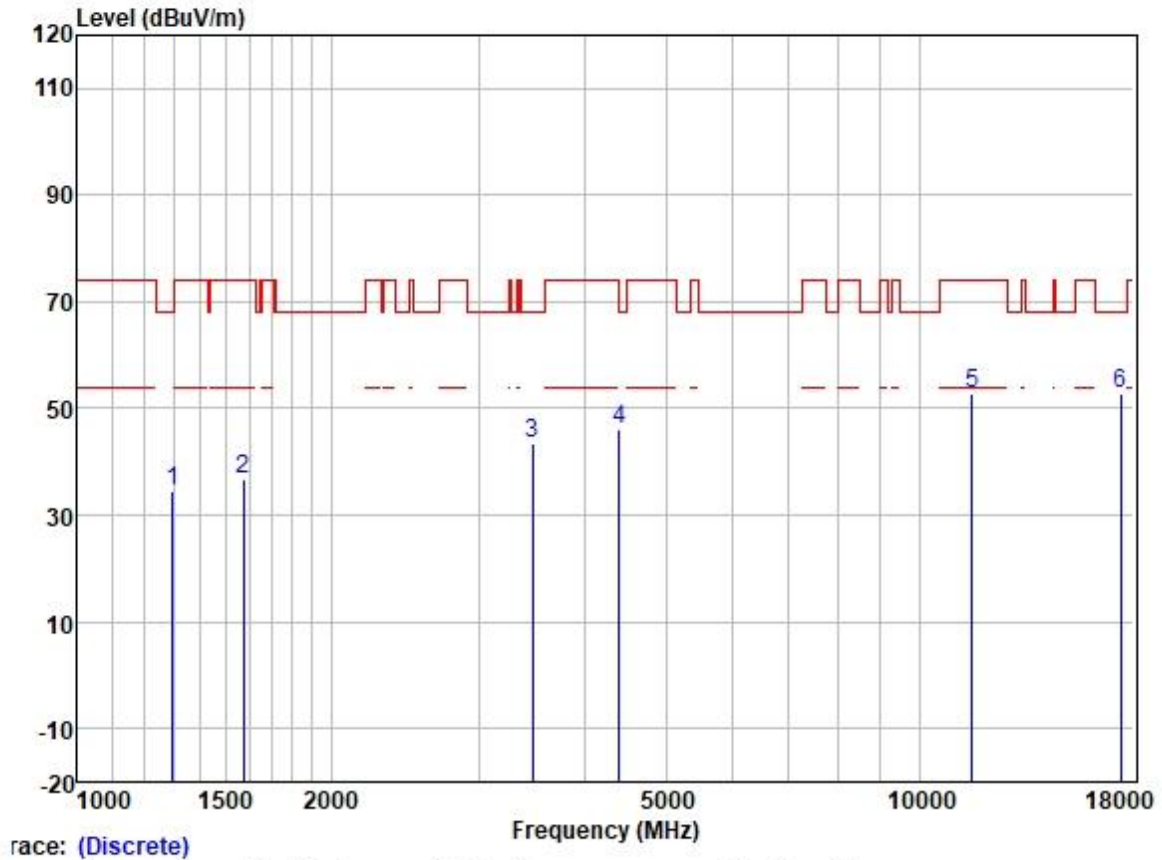
| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|------------|----------------|------------|---------------|-------------|------------|-----------|---------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1282.193 | 45.36 | 25.15 | 2.52 | 38.33 | 34.70 | 68.20 | -33.50 | VERTICAL Peak |
| 2 | 1611.091 | 47.70 | 25.59 | 2.80 | 37.98 | 38.11 | 74.00 | -35.89 | VERTICAL Peak |
| 3 | 3386.297 | 47.29 | 28.83 | 4.10 | 36.99 | 43.23 | 68.20 | -24.97 | VERTICAL Peak |
| 4 | 4254.921 | 47.49 | 30.34 | 4.62 | 36.81 | 45.64 | 74.00 | -28.36 | VERTICAL Peak |
| 5 | 11490.000 | 40.86 | 39.90 | 8.41 | 37.15 | 52.02 | 74.00 | -21.98 | VERTICAL Peak |
| 6 | 17235.000 | 35.29 | 43.01 | 10.08 | 35.33 | 53.05 | 68.20 | -15.15 | VERTICAL Peak |

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



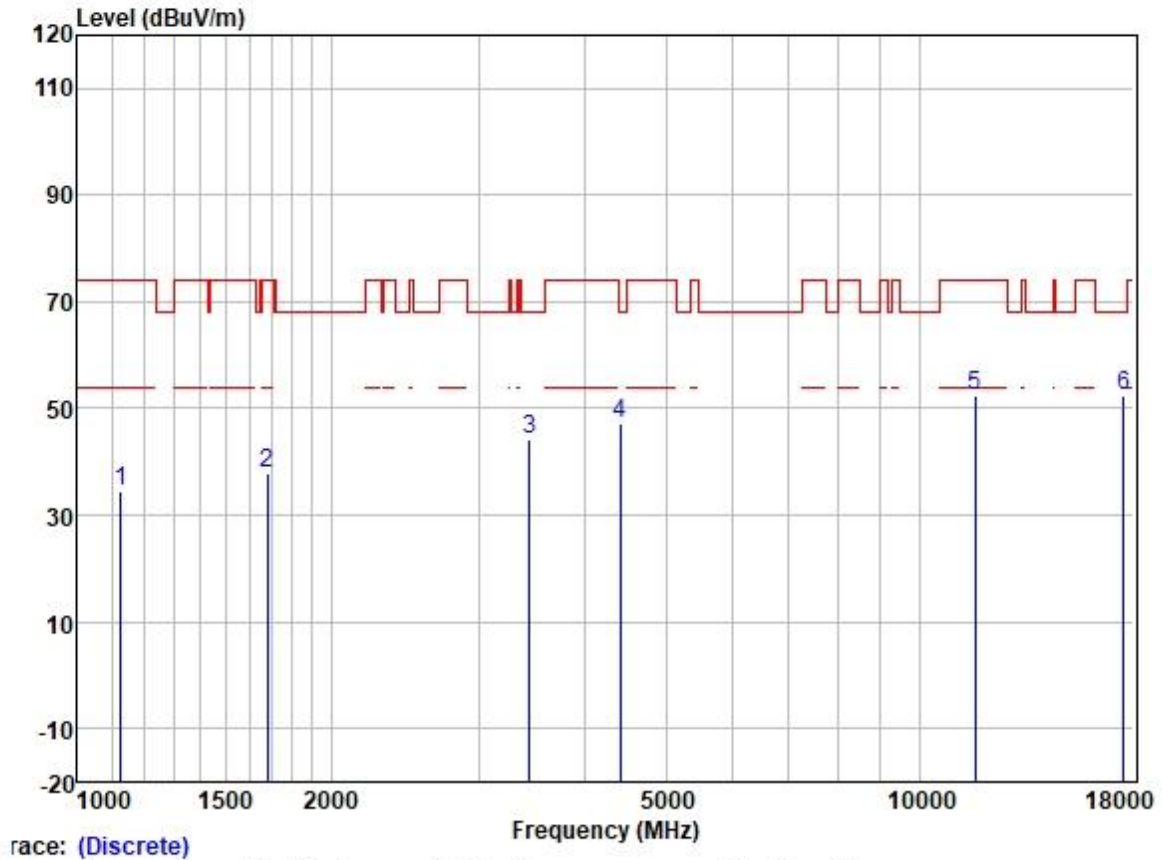
| | | ReadAntenna | | Cable | Preamp | | Limit | Over | | |
|---|-----------|-------------|--------|-------|--------|--------|--------|--------|------------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1210.174 | 46.40 | 24.74 | 2.33 | 38.39 | 35.08 | 74.00 | -38.92 | HORIZONTAL | Peak |
| 2 | 1658.337 | 47.73 | 25.65 | 2.80 | 37.93 | 38.25 | 68.20 | -29.95 | HORIZONTAL | Peak |
| 3 | 3485.601 | 47.52 | 28.89 | 4.27 | 36.95 | 43.73 | 68.20 | -24.47 | HORIZONTAL | Peak |
| 4 | 4392.376 | 47.48 | 30.66 | 4.70 | 36.81 | 46.03 | 74.00 | -27.97 | HORIZONTAL | Peak |
| 5 | 11570.000 | 41.02 | 39.78 | 8.38 | 37.14 | 52.04 | 74.00 | -21.96 | HORIZONTAL | Peak |
| 6 | 17355.000 | 34.87 | 43.40 | 10.39 | 35.32 | 53.34 | 68.20 | -14.86 | HORIZONTAL | Peak |

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



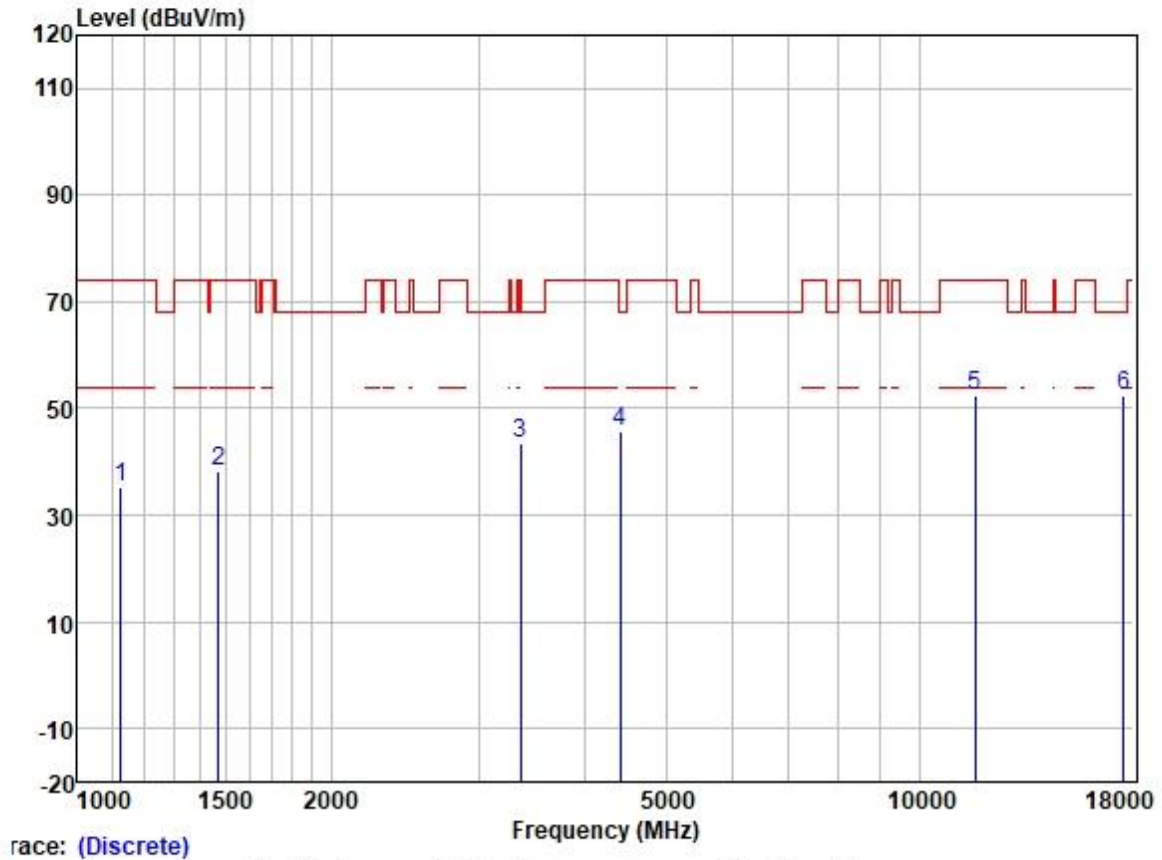
| | Freq | Read | Antenna | Cable | Preamp | Limit | Over | | |
|---|-----------|-------|---------|-------|--------|--------|--------|-----------|---------------|
| | MHz | Level | Factor | Loss | Factor | Level | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1297.103 | 44.90 | 25.19 | 2.58 | 38.31 | 34.36 | 68.20 | -33.84 | VERTICAL Peak |
| 2 | 1574.265 | 46.49 | 25.56 | 2.80 | 38.00 | 36.85 | 74.00 | -37.15 | VERTICAL Peak |
| 3 | 3475.541 | 47.28 | 28.89 | 4.25 | 36.95 | 43.47 | 68.20 | -24.73 | VERTICAL Peak |
| 4 | 4405.090 | 47.36 | 30.68 | 4.70 | 36.81 | 45.93 | 68.20 | -22.27 | VERTICAL Peak |
| 5 | 11570.000 | 41.72 | 39.78 | 8.38 | 37.14 | 52.74 | 74.00 | -21.26 | VERTICAL Peak |
| 6 | 17355.000 | 34.50 | 43.40 | 10.39 | 35.32 | 52.97 | 68.20 | -15.23 | VERTICAL Peak |

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| | | 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 | 1125.813 | 46.29 | 24.42 | 2.21 | 38.43 | 34.49 | 74.00 | -39.51 | HORIZONTAL | Peak |
| 2 | 1682.477 | 47.37 | 25.68 | 2.80 | 37.91 | 37.94 | 74.00 | -36.06 | HORIZONTAL | Peak |
| 3 | 3445.535 | 48.30 | 28.87 | 4.18 | 36.96 | 44.39 | 68.20 | -23.81 | HORIZONTAL | Peak |
| 4 | 4417.841 | 48.72 | 30.70 | 4.74 | 36.81 | 47.35 | 68.20 | -20.85 | HORIZONTAL | Peak |
| 5 | 11650.000 | 41.64 | 39.65 | 8.35 | 37.13 | 52.51 | 74.00 | -21.49 | HORIZONTAL | Peak |
| 6 | 17475.000 | 33.01 | 43.90 | 10.77 | 35.32 | 52.36 | 68.20 | -15.84 | HORIZONTAL | Peak |

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



| | | 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 | 1125.813 | 47.02 | 24.42 | 2.21 | 38.43 | 35.22 | 74.00 | -38.78 | VERTICAL | Peak |
| 2 | 1468.761 | 48.17 | 25.47 | 2.75 | 38.13 | 38.26 | 74.00 | -35.74 | VERTICAL | Peak |
| 3 | 3357.061 | 47.69 | 28.81 | 4.09 | 37.01 | 43.58 | 74.00 | -30.42 | VERTICAL | Peak |
| 4 | 4417.841 | 47.08 | 30.70 | 4.74 | 36.81 | 45.71 | 68.20 | -22.49 | VERTICAL | Peak |
| 5 | 11650.000 | 41.68 | 39.65 | 8.35 | 37.13 | 52.55 | 74.00 | -21.45 | VERTICAL | Peak |
| 6 | 17475.000 | 33.09 | 43.90 | 10.77 | 35.32 | 52.44 | 68.20 | -15.76 | VERTICAL | Peak |

8 Test Setup Photo

Refer to Appendix - Test Setup Photos for GZCR2110021258AT.

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021258AT.

10 Appendix

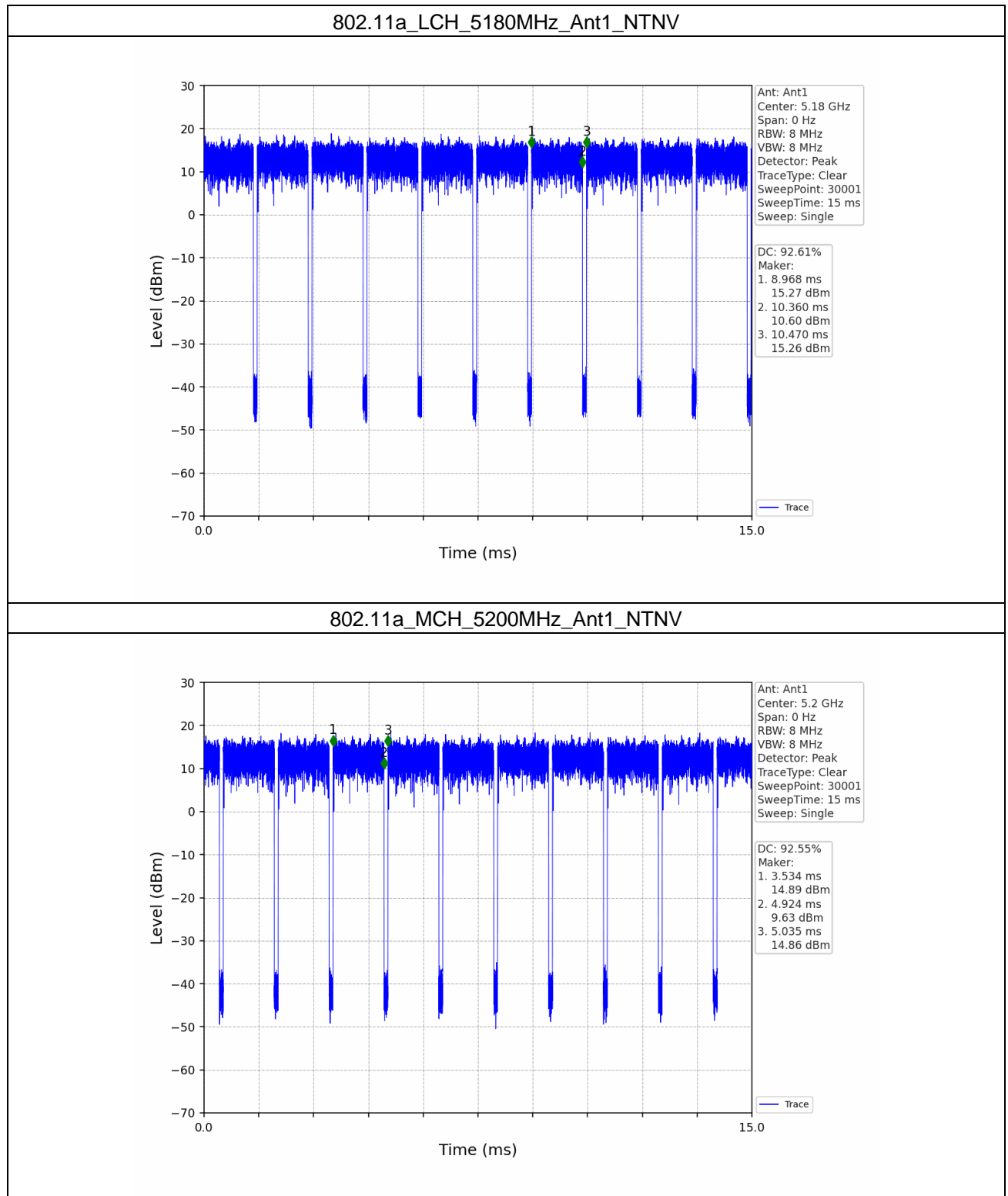
1. Duty Cycle

1.1 Ant1

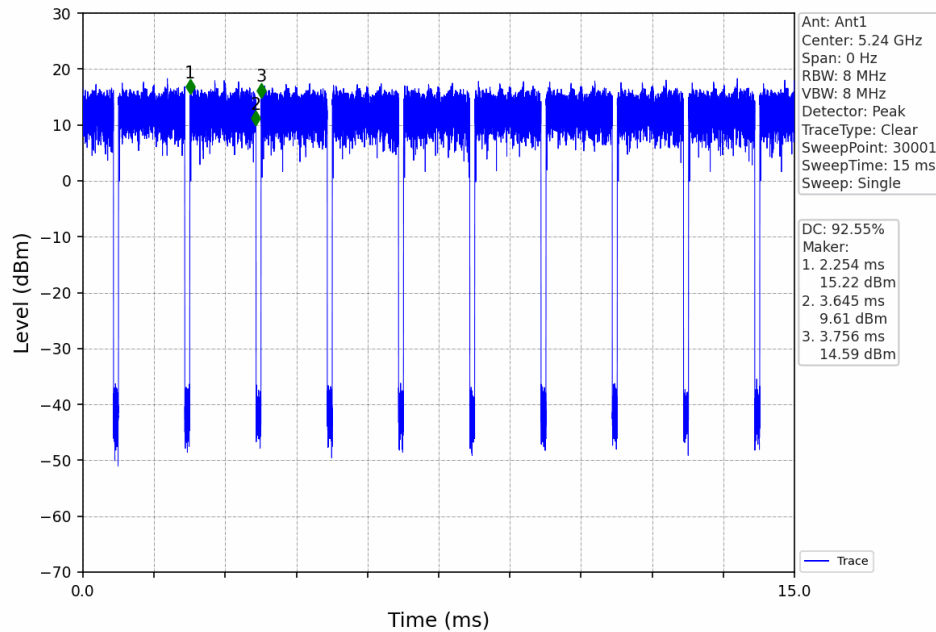
1.1.1 Test Result

| Ant1 | | | | | | | |
|----------------|---------|-----------------|----------------------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T _{on} (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a | SISO | 5180 | 1.391 | 1.502 | 92.61 | 0.33 | 0.03 |
| | | 5200 | 1.391 | 1.503 | 92.55 | 0.34 | 0.03 |
| | | 5240 | 1.391 | 1.503 | 92.55 | 0.34 | 0.03 |
| | | 5260 | 1.392 | 1.502 | 92.68 | 0.33 | 0.03 |
| | | 5300 | 1.396 | 1.502 | 92.94 | 0.32 | 0.03 |
| | | 5320 | 1.390 | 1.502 | 92.54 | 0.34 | 0.03 |
| | | 5500 | 1.391 | 1.502 | 92.61 | 0.33 | 0.03 |
| | | 5580 | 1.397 | 1.503 | 92.95 | 0.32 | 0.03 |
| | | 5700 | 1.396 | 1.502 | 92.94 | 0.32 | 0.00 |
| | | 5745 | 1.390 | 1.502 | 92.54 | 0.34 | 0.03 |
| | | 5785 | 1.396 | 1.502 | 92.94 | 0.32 | 0.03 |
| | | 5825 | 1.396 | 1.503 | 92.88 | 0.32 | 0.03 |
| 802.11n (HT20) | SISO | 5180 | 1.427 | 1.534 | 93.02 | 0.31 | 0.03 |
| | | 5200 | 1.390 | 1.502 | 92.54 | 0.34 | 0.03 |
| | | 5240 | 1.392 | 1.502 | 92.68 | 0.33 | 0.03 |
| | | 5260 | 1.427 | 1.534 | 93.02 | 0.31 | 0.03 |
| | | 5300 | 1.423 | 1.534 | 92.76 | 0.33 | 0.03 |
| | | 5320 | 1.428 | 1.534 | 93.09 | 0.31 | 0.00 |
| | | 5500 | 1.428 | 1.534 | 93.09 | 0.31 | 0.00 |
| | | 5580 | 1.425 | 1.535 | 92.83 | 0.32 | 0.03 |
| | | 5700 | 1.427 | 1.534 | 93.02 | 0.31 | 0.03 |
| | | 5745 | 1.424 | 1.535 | 92.77 | 0.33 | 0.03 |
| | | 5785 | 1.423 | 1.534 | 92.76 | 0.33 | 0.03 |
| | | 5825 | 1.423 | 1.534 | 92.76 | 0.33 | 0.03 |

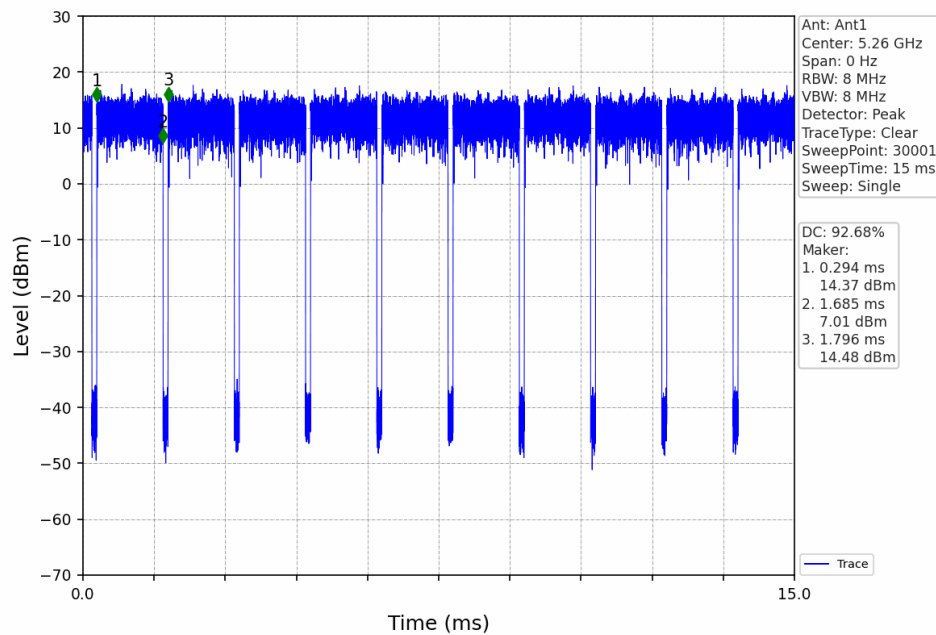
1.1.2 Test Graph



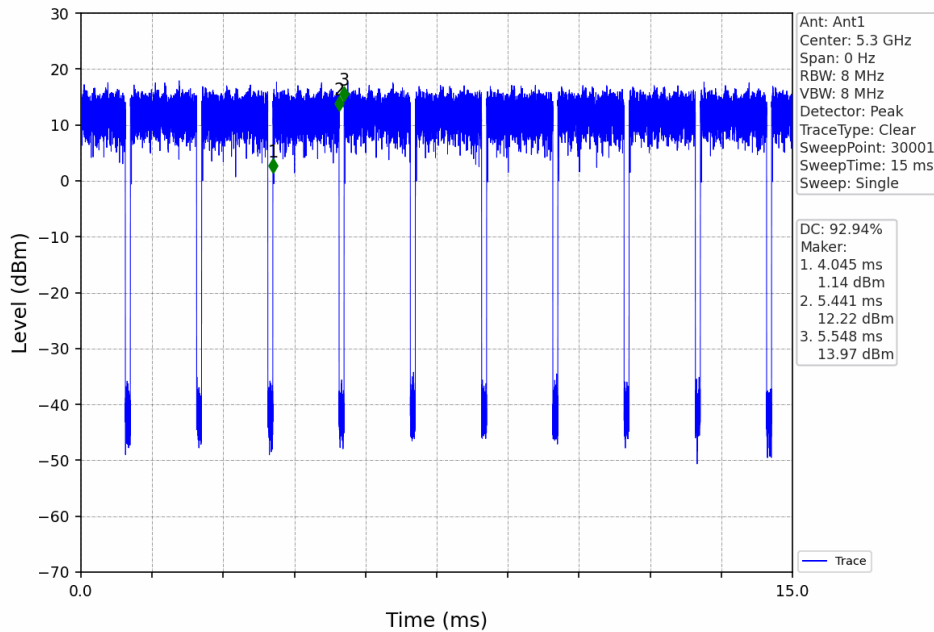
802.11a_HCH_5240MHz_Ant1_NTNV



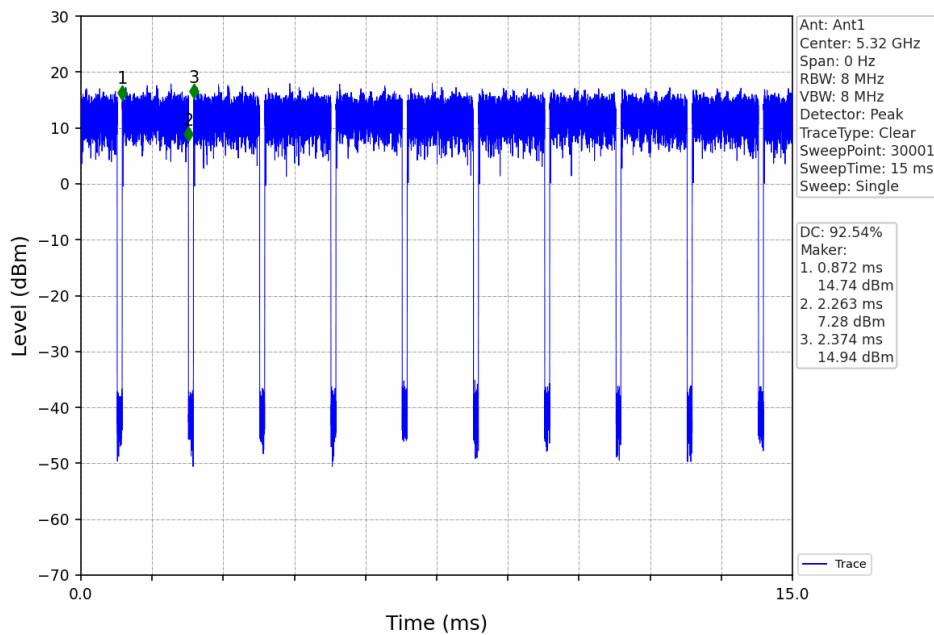
802.11a_LCH_5260MHz_Ant1_NTNV



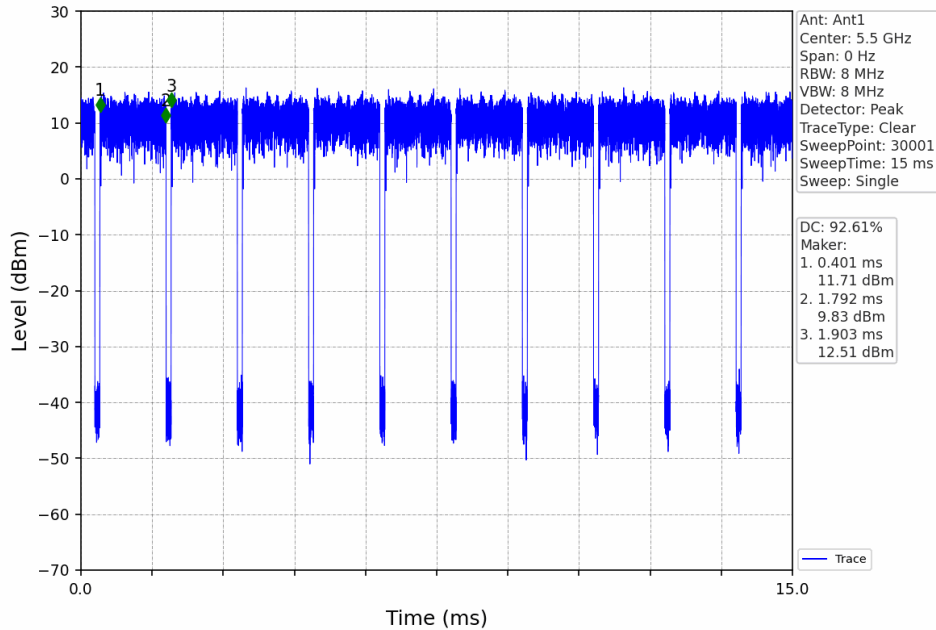
802.11a_MCH_5300MHz_Ant1_NTNV



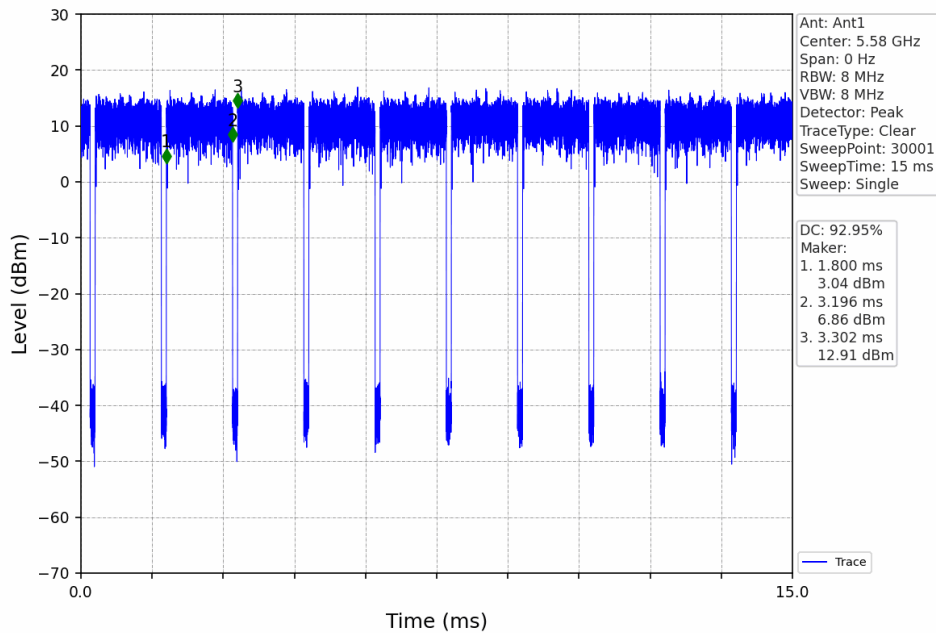
802.11a_HCH_5320MHz_Ant1_NTNV



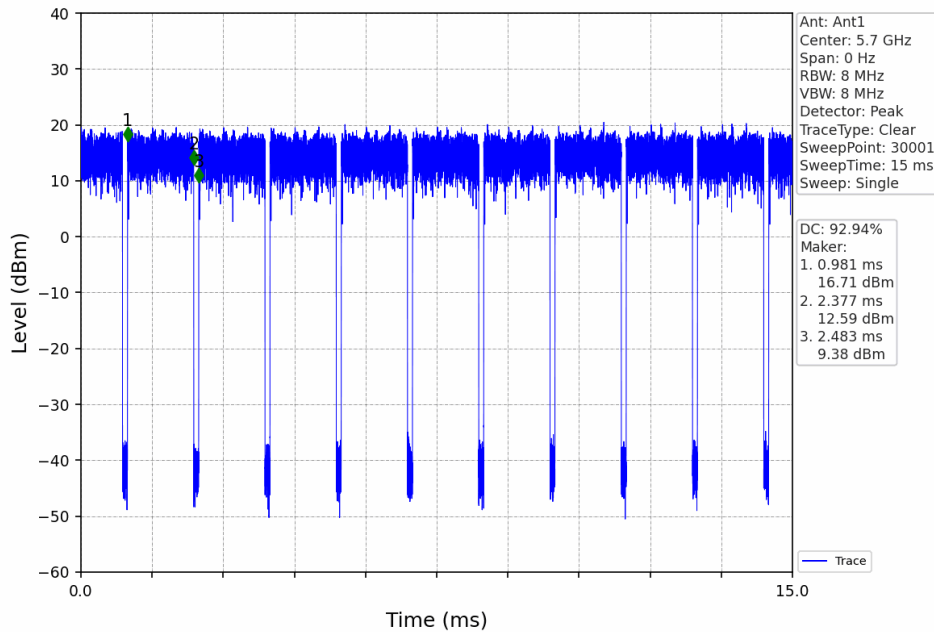
802.11a_LCH_5500MHz_Ant1_NTNV



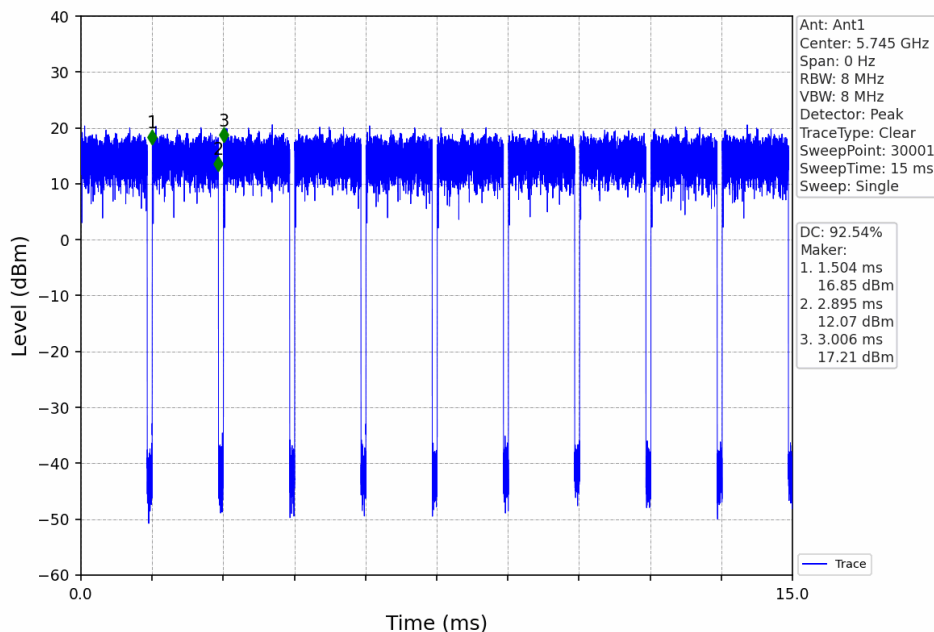
802.11a_MCH_5580MHz_Ant1_NTNV



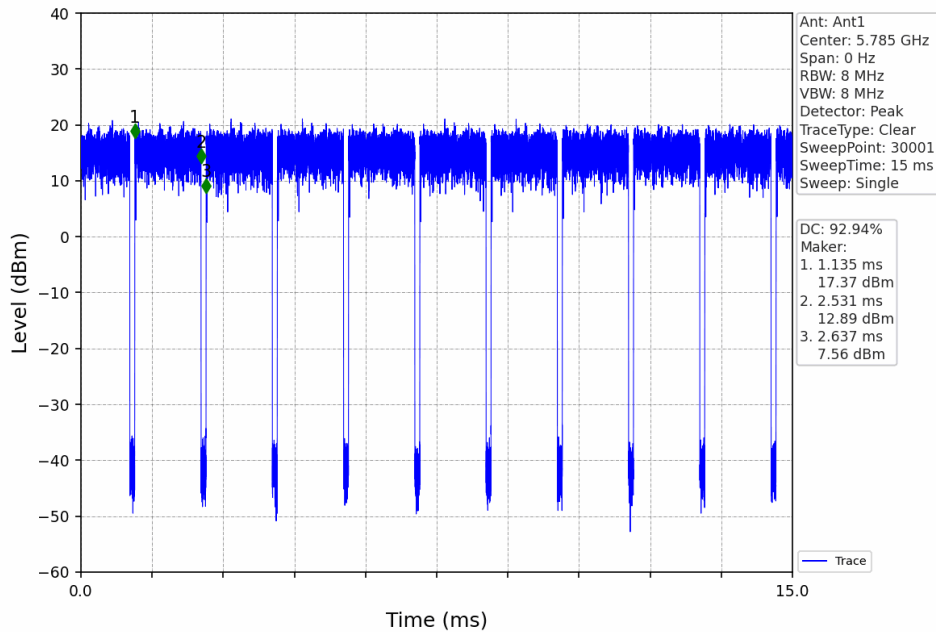
802.11a_HCH_5700MHz_Ant1_NTNV



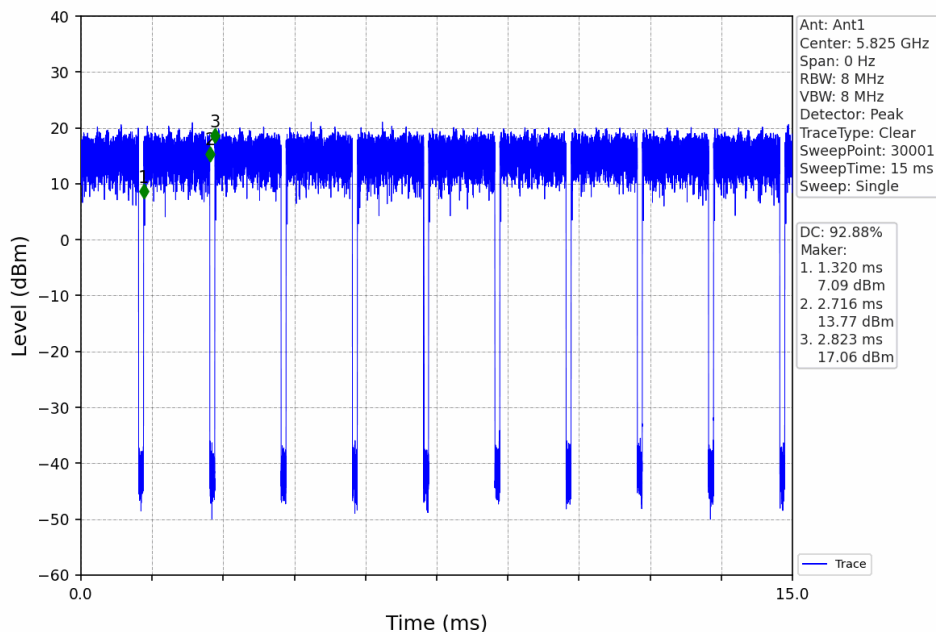
802.11a_LCH_5745MHz_Ant1_NTNV



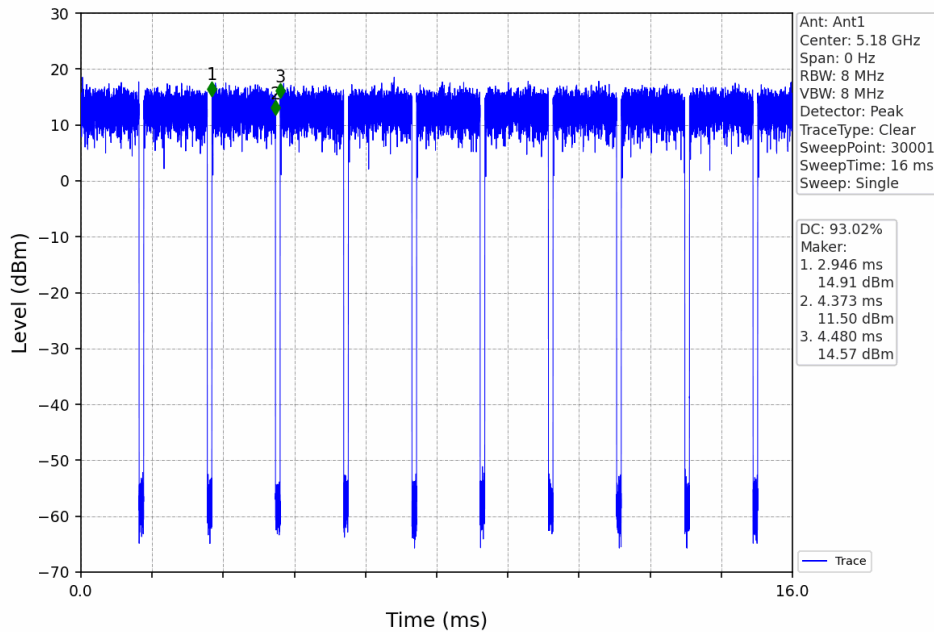
802.11a_MCH_5785MHz_Ant1_NTNV



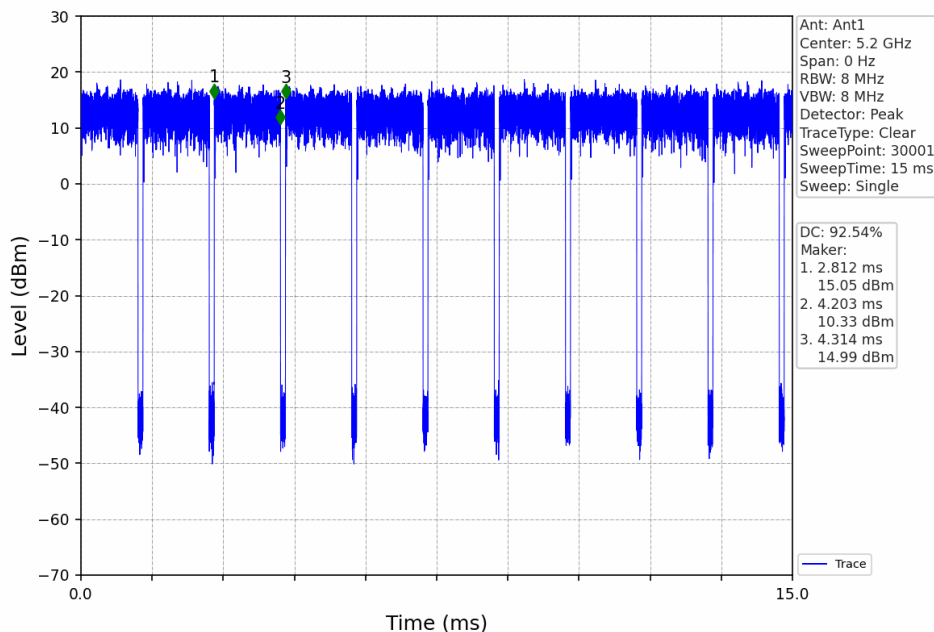
802.11a_HCH_5825MHz_Ant1_NTNV



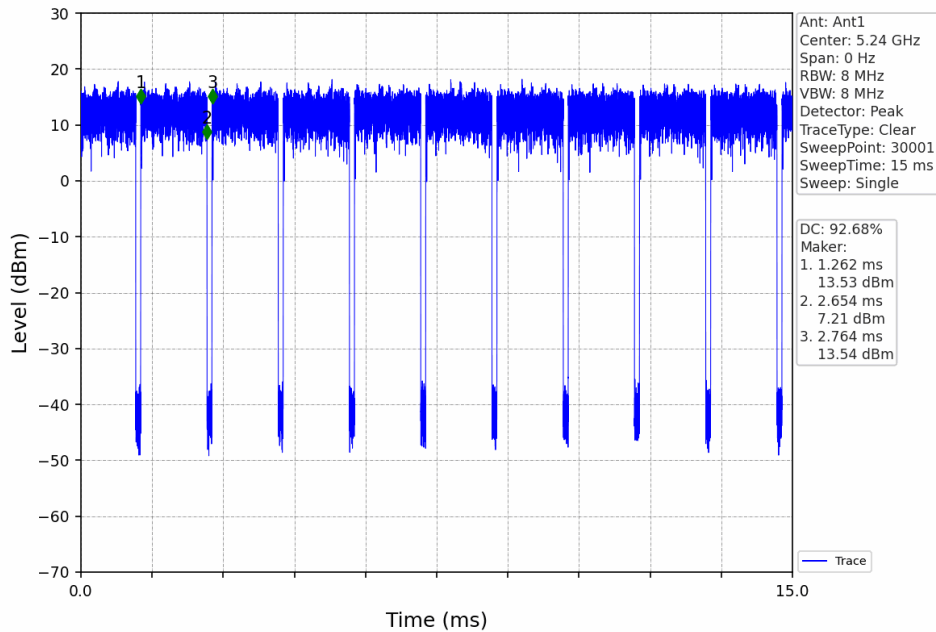
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



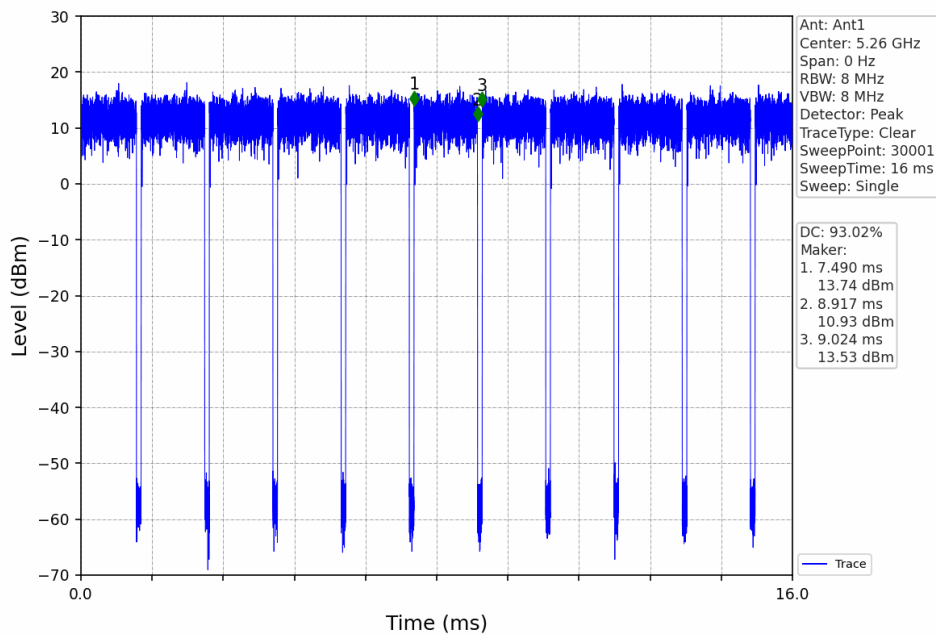
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



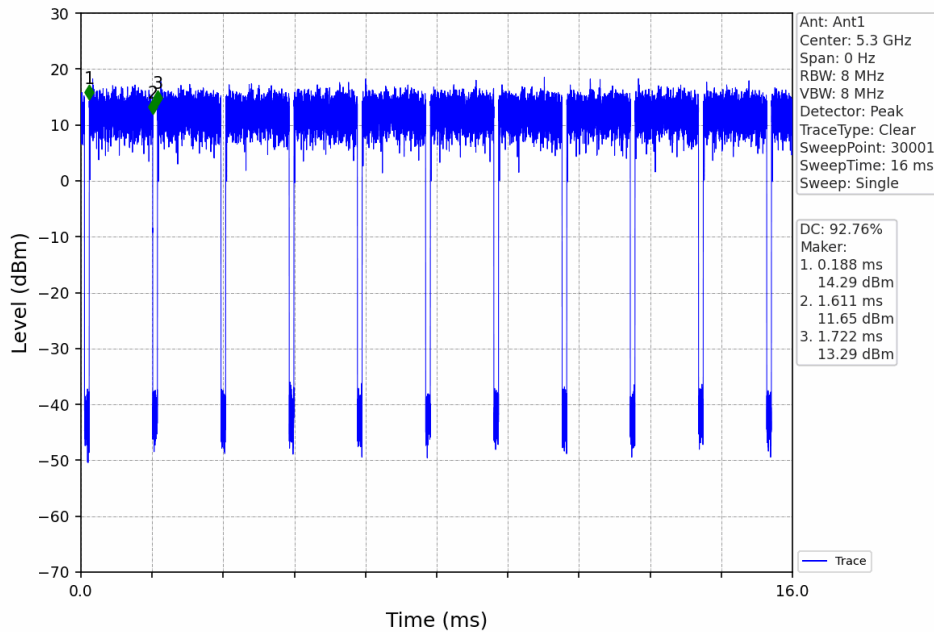
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



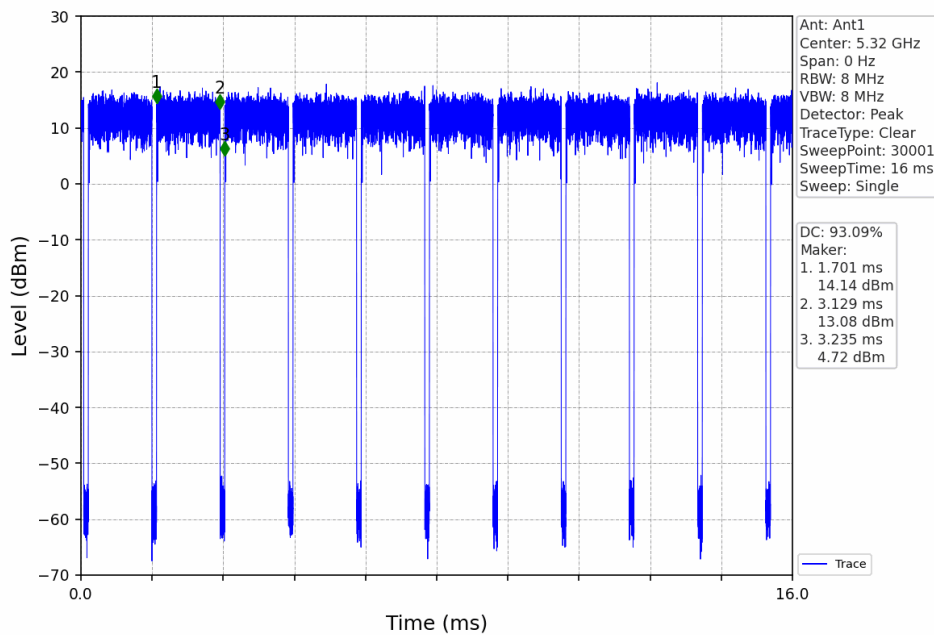
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



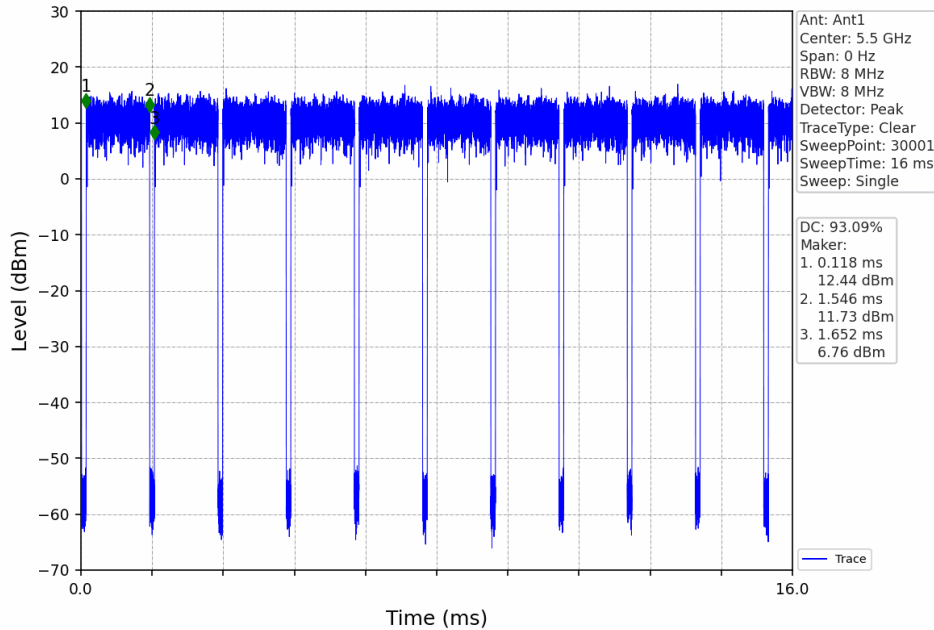
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



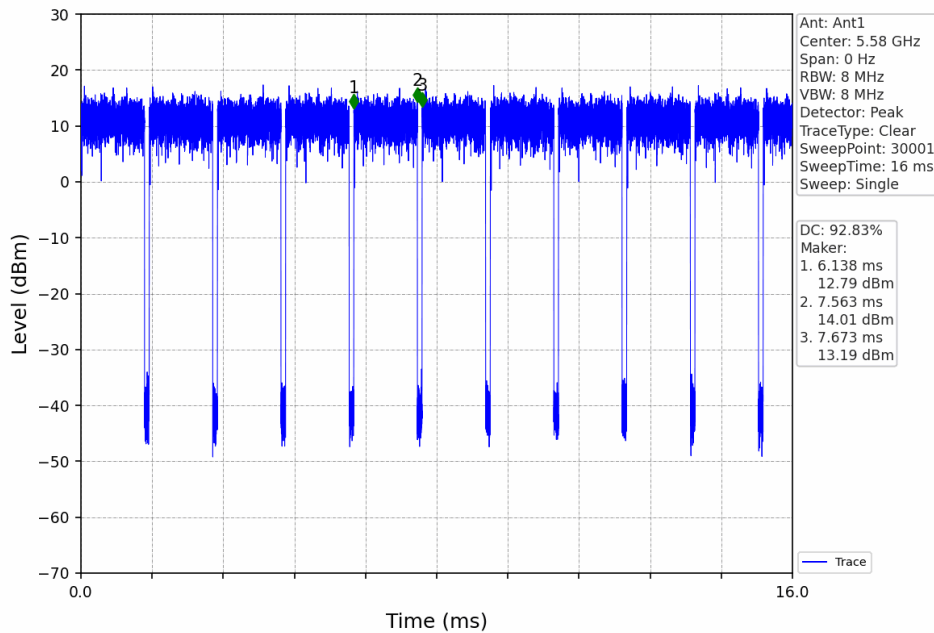
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



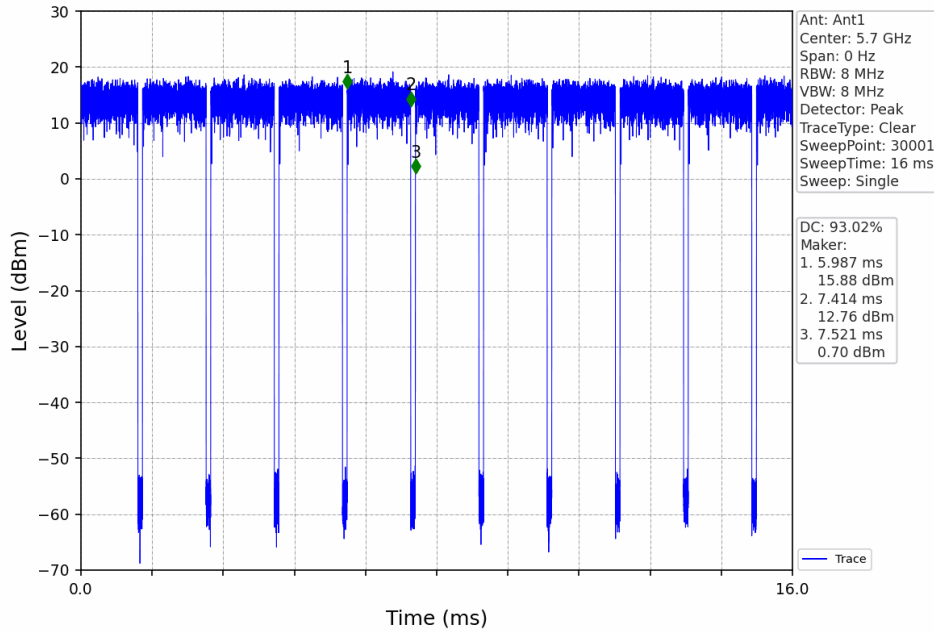
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



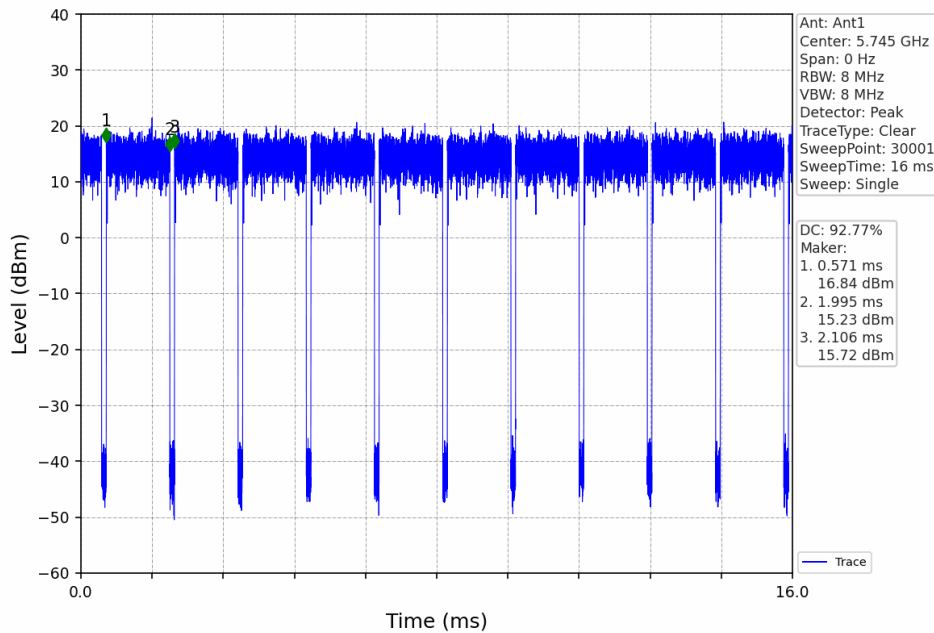
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



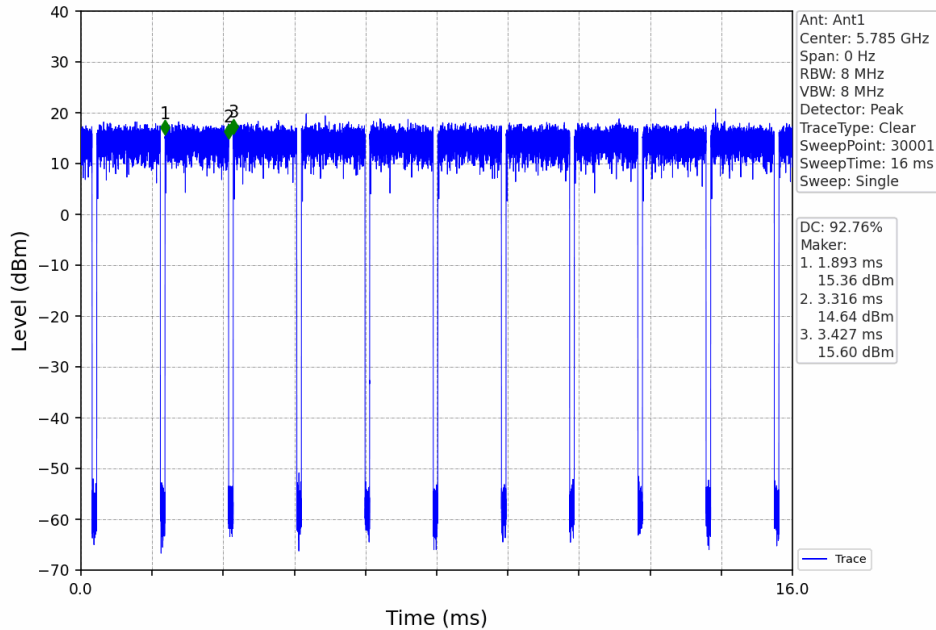
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



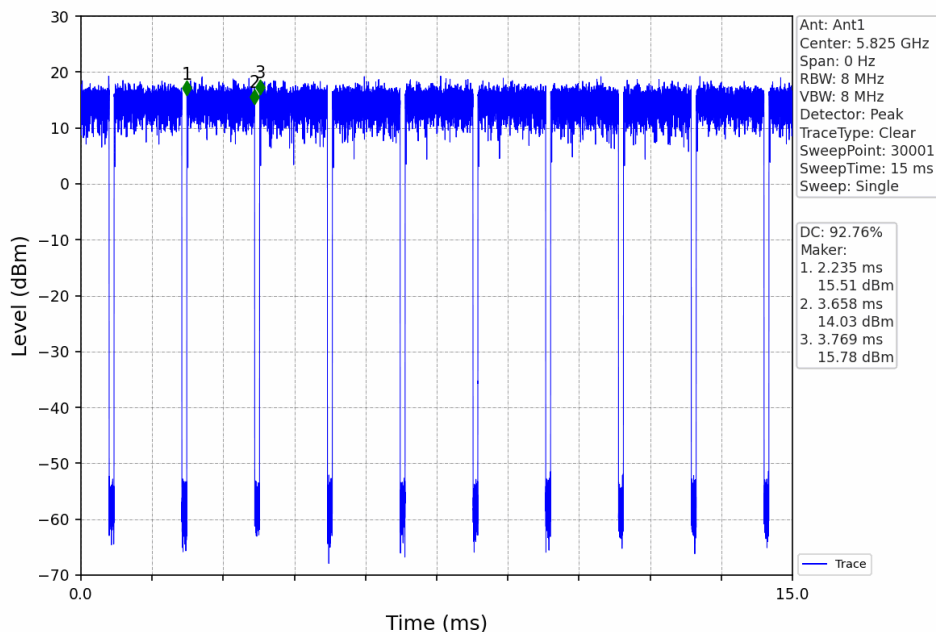
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



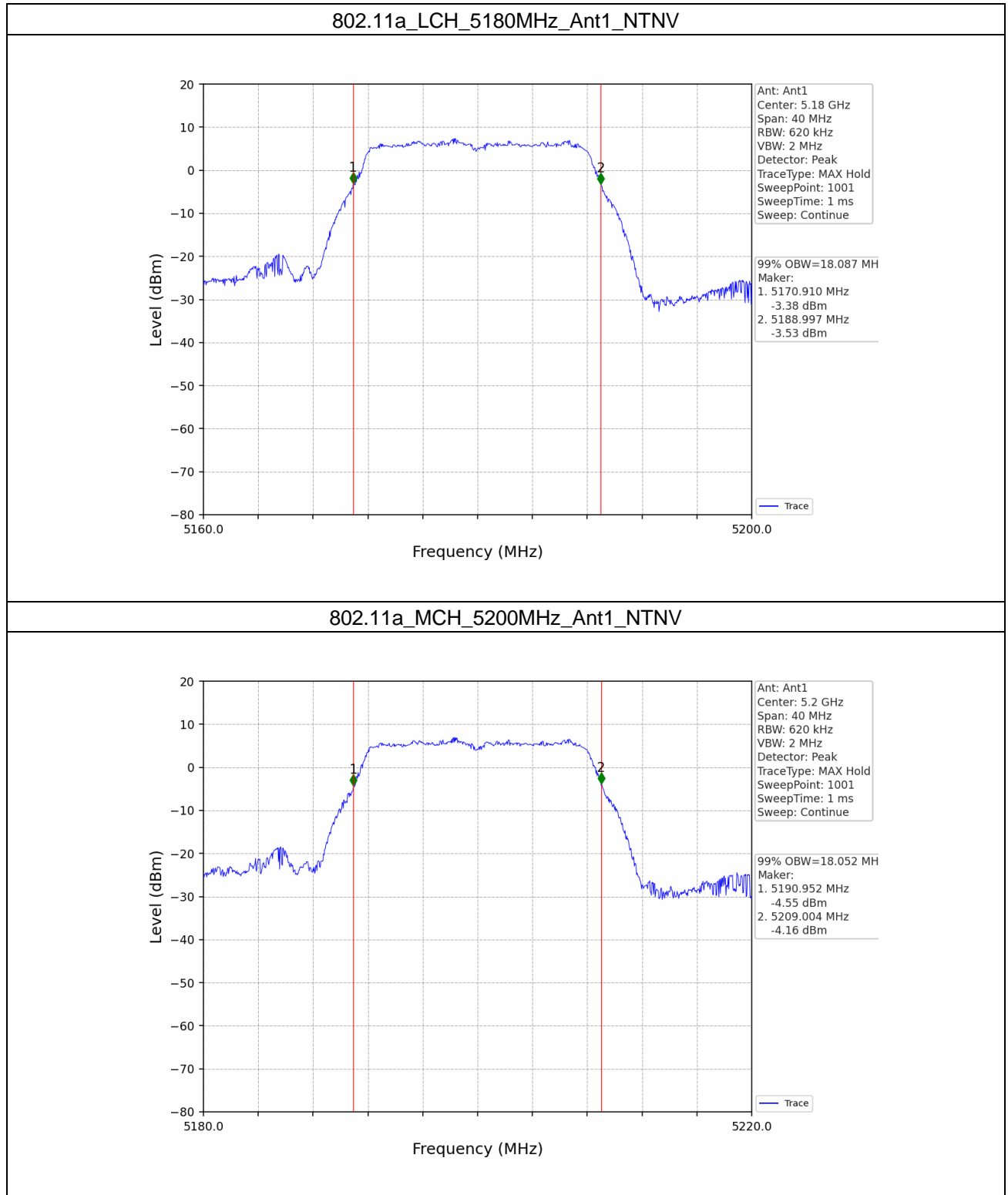
2. Bandwidth

2.1 OBW

2.1.1 Test Result

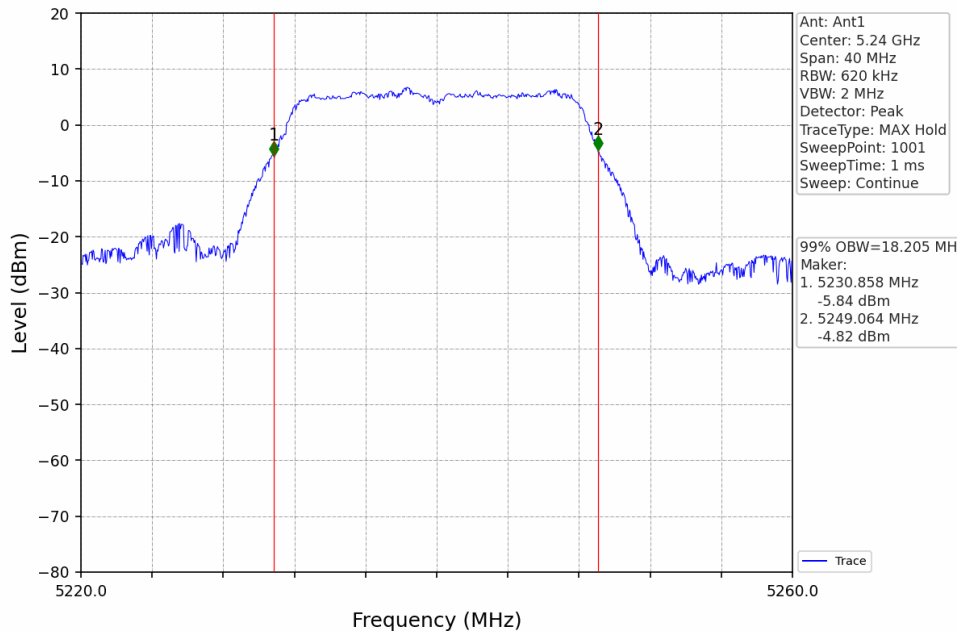
| Mode | TX Type | Frequency (MHz) | Ant | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-----|------------------------------|---------|
| | | | | Result | |
| 802.11a | SISO | 5180 | 1 | 18.087 | Pass |
| | | 5200 | 1 | 18.052 | Pass |
| | | 5240 | 1 | 18.205 | Pass |
| | | 5260 | 1 | 18.238 | Pass |
| | | 5300 | 1 | 18.279 | Pass |
| | | 5320 | 1 | 18.077 | Pass |
| | | 5500 | 1 | 18.135 | Pass |
| | | 5580 | 1 | 17.956 | Pass |
| | | 5700 | 1 | 18.041 | Pass |
| | | 5745 | 1 | 18.115 | Pass |
| | | 5785 | 1 | 18.057 | Pass |
| | | 5825 | 1 | 18.150 | Pass |
| 802.11n (HT20) | SISO | 5180 | 1 | 18.122 | Pass |
| | | 5200 | 1 | 18.040 | Pass |
| | | 5240 | 1 | 18.246 | Pass |
| | | 5260 | 1 | 18.176 | Pass |
| | | 5300 | 1 | 18.178 | Pass |
| | | 5320 | 1 | 18.116 | Pass |
| | | 5500 | 1 | 18.118 | Pass |
| | | 5580 | 1 | 18.105 | Pass |
| | | 5700 | 1 | 18.221 | Pass |
| | | 5745 | 1 | 18.166 | Pass |
| | | 5785 | 1 | 18.161 | Pass |
| | | 5825 | 1 | 18.188 | Pass |

2.1.2 Test Graph

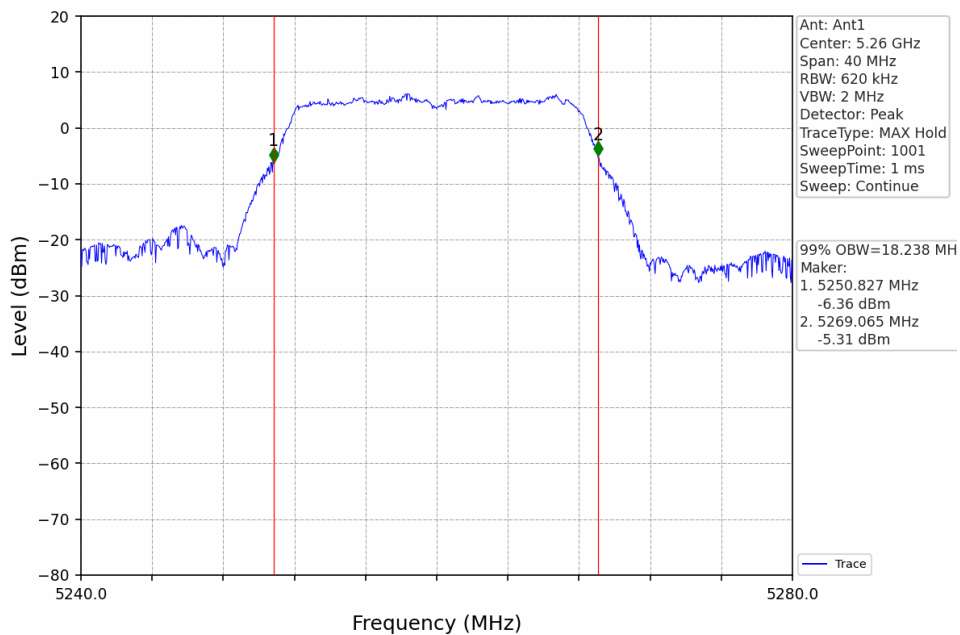


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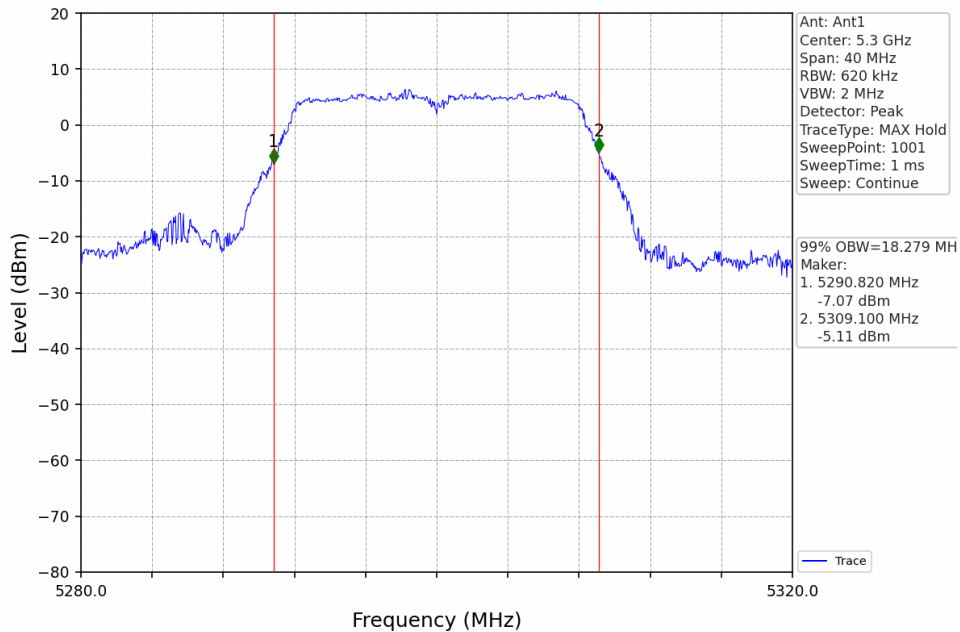
802.11a_HCH_5240MHz_Ant1_NTNV



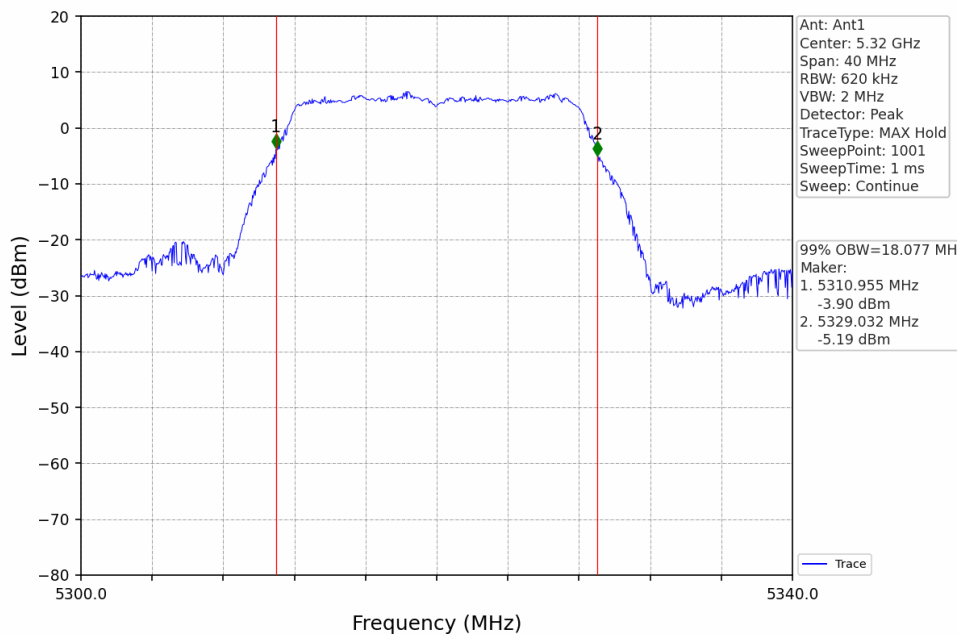
802.11a_LCH_5260MHz_Ant1_NTNV



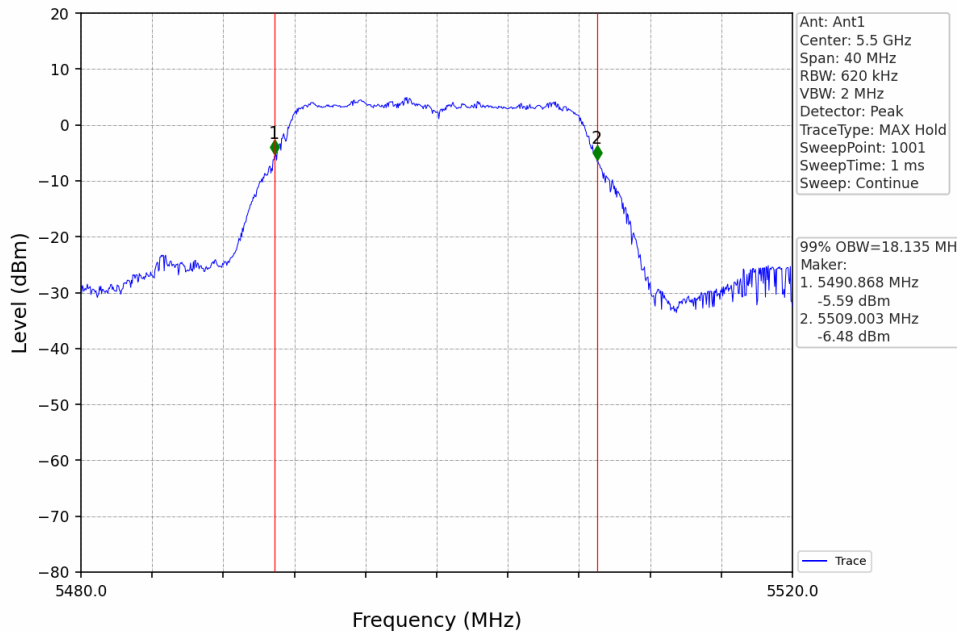
802.11a_MCH_5300MHz_Ant1_NTNV



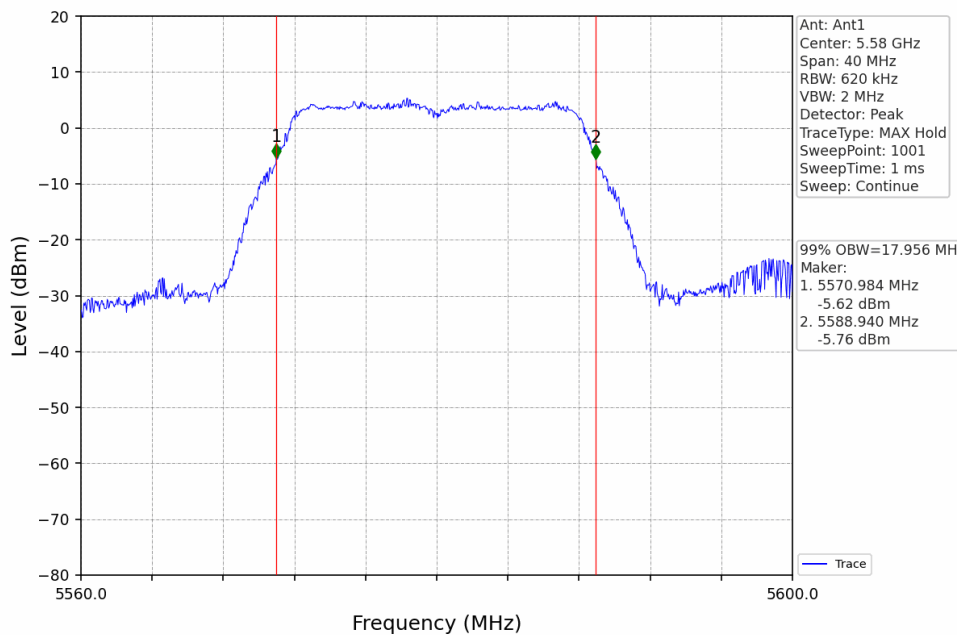
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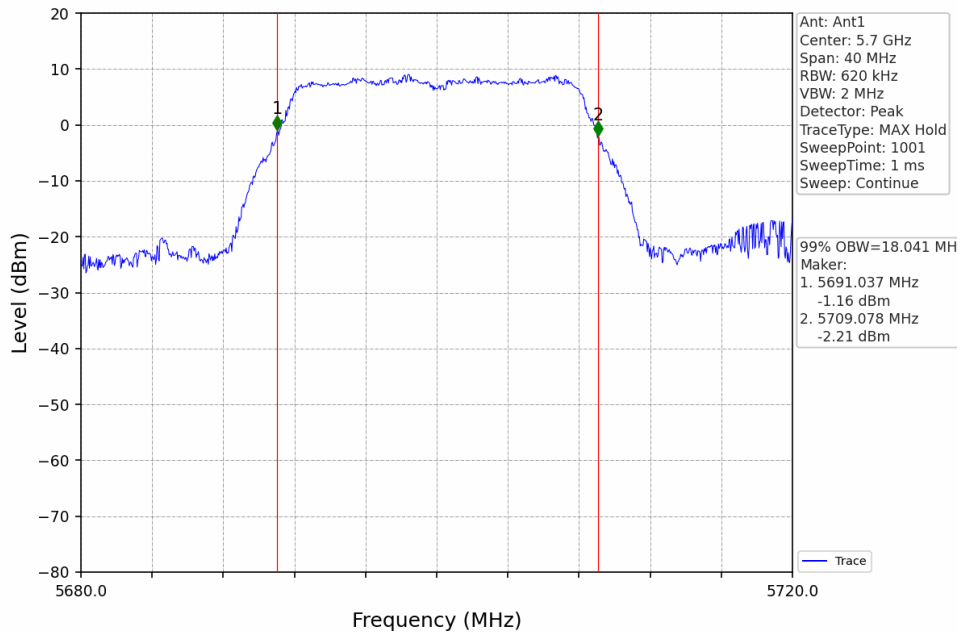
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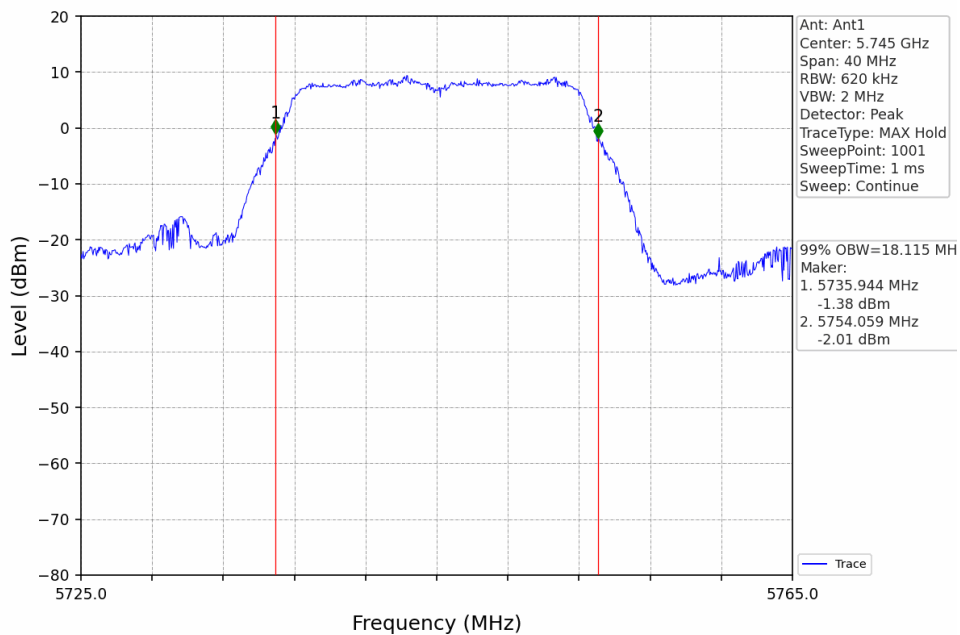
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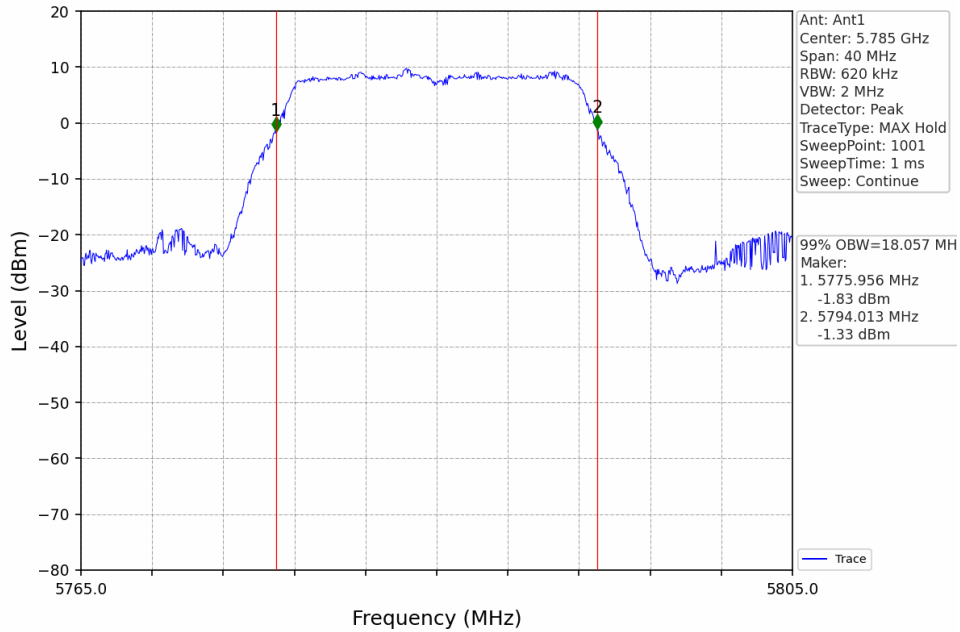
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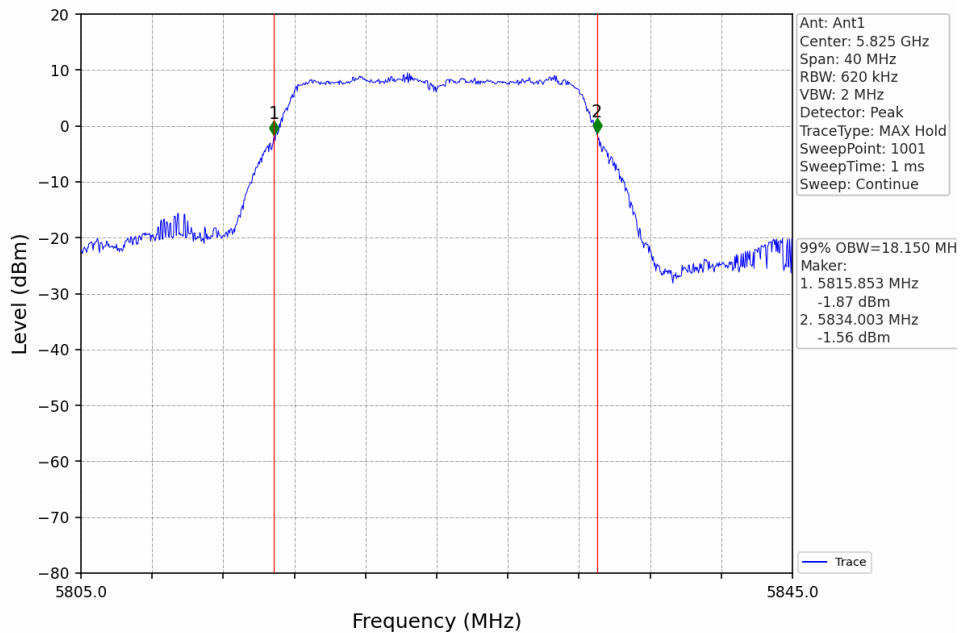
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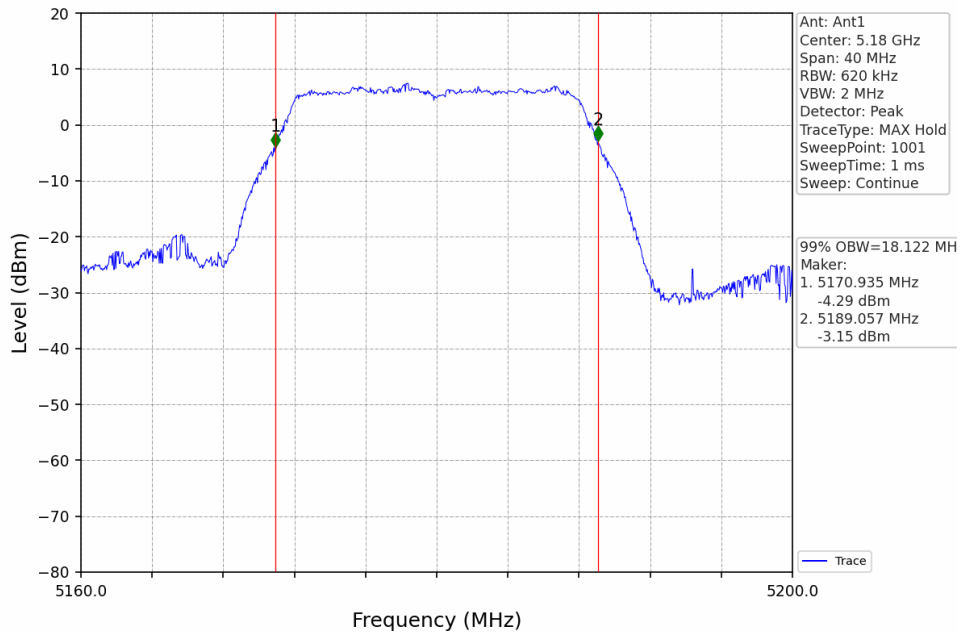
802.11a_MCH_5785MHz_Ant1_NTNV



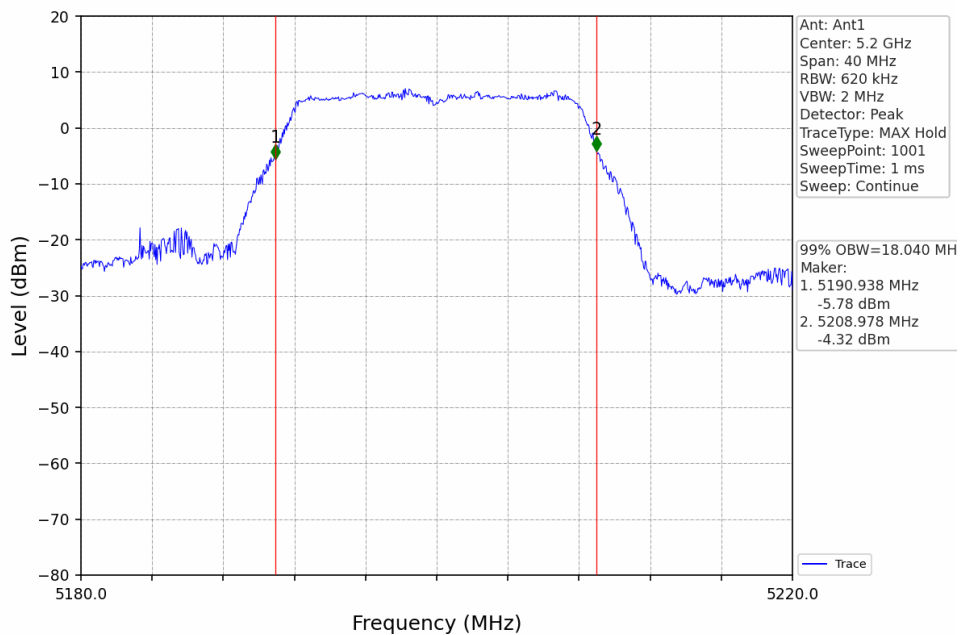
802.11a_HCH_5825MHz_Ant1_NTNV



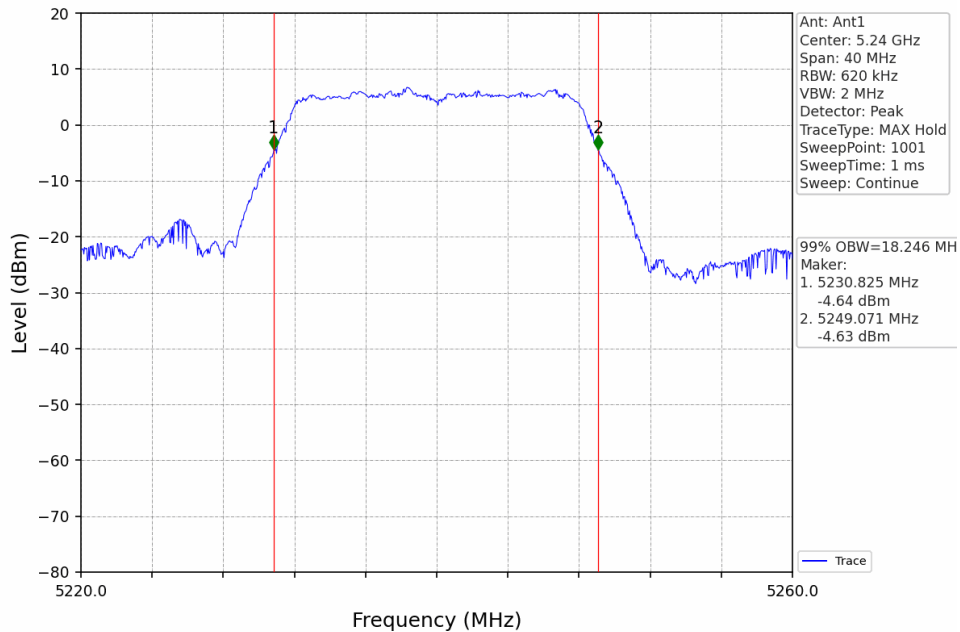
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



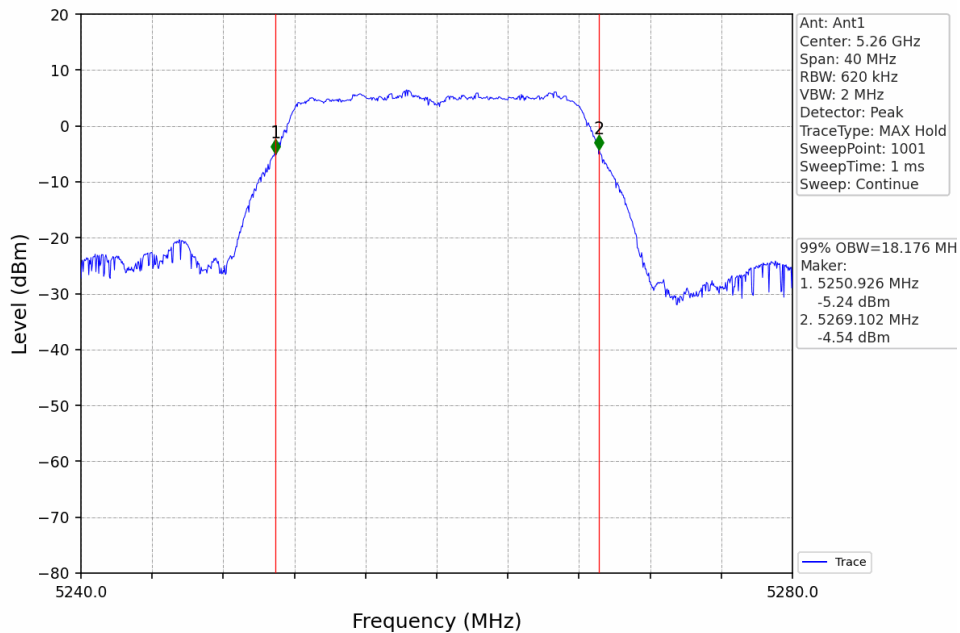
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

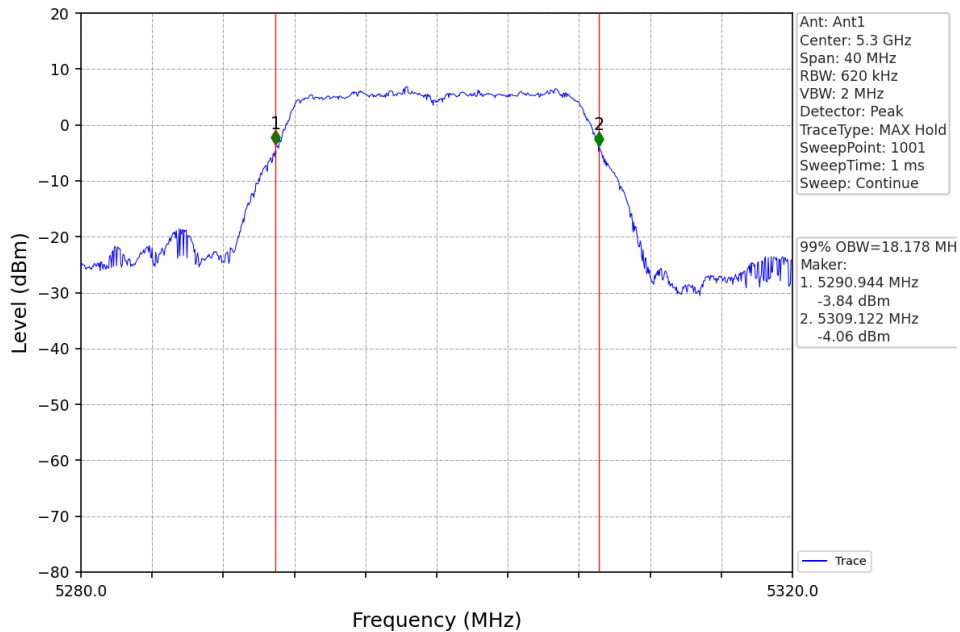


802.11n(HT20)_LCH_5260MHz_Ant1_NTNV

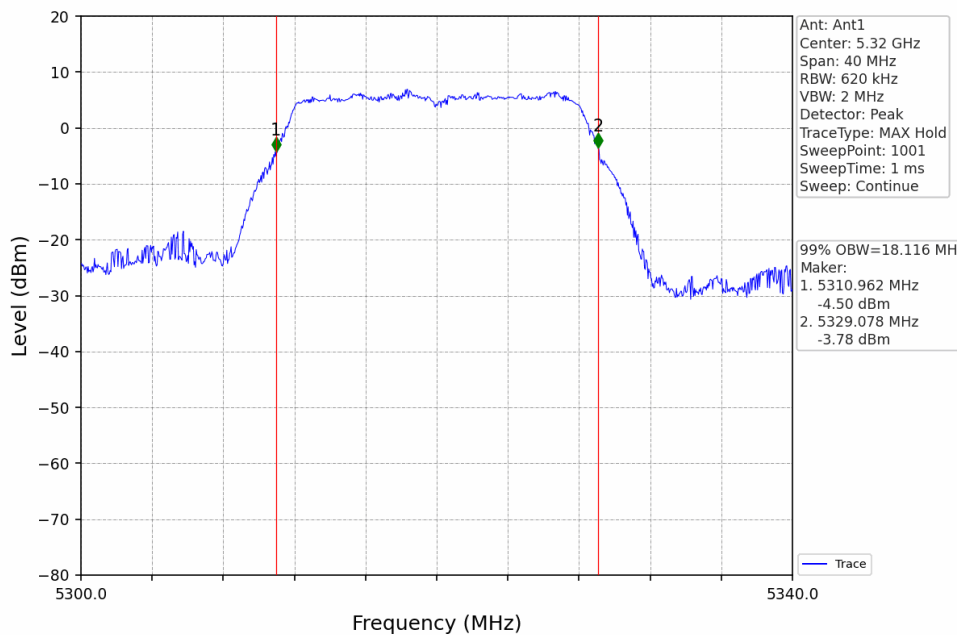


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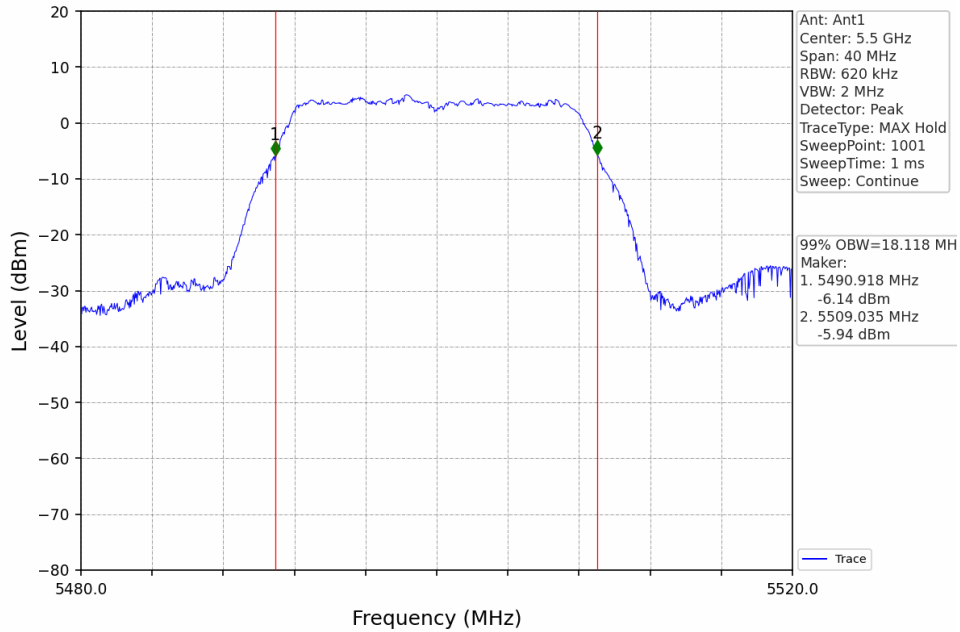
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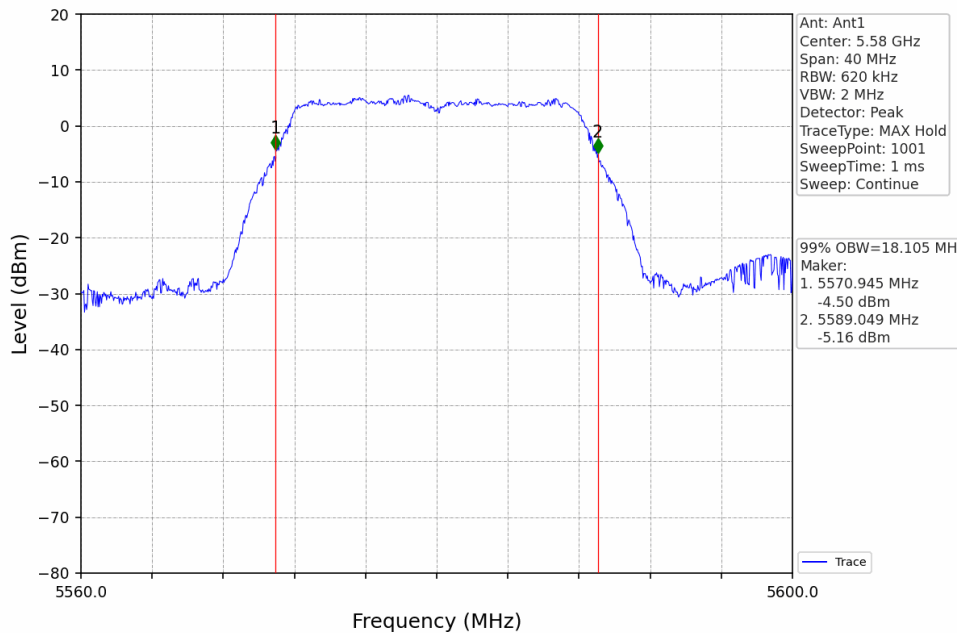
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



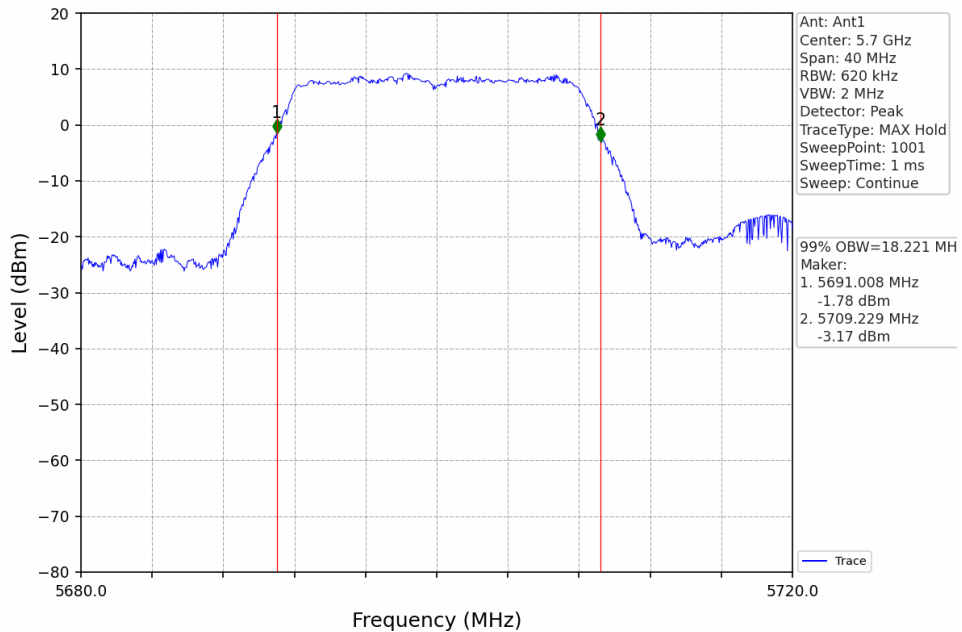
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



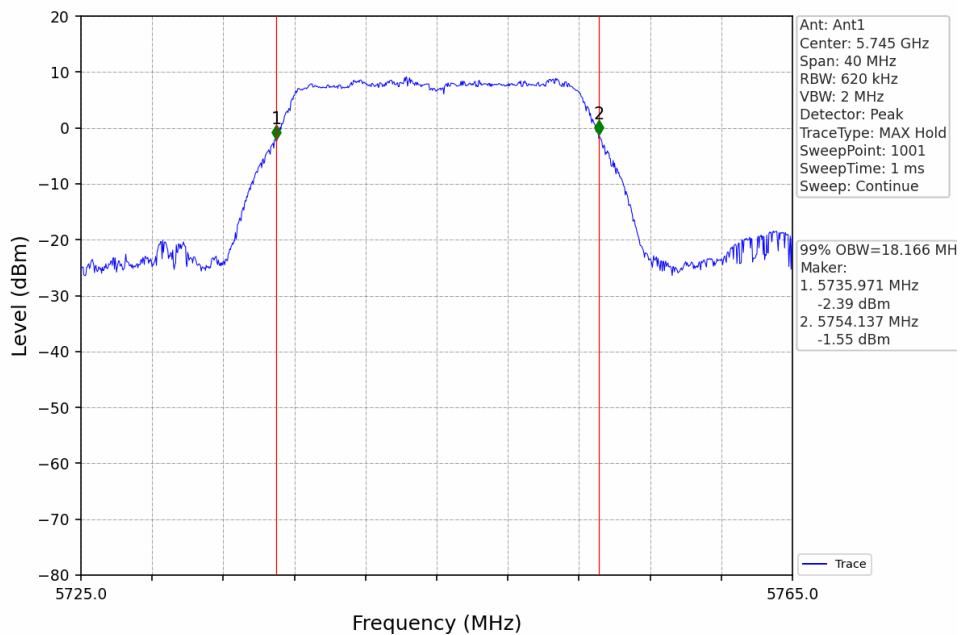
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



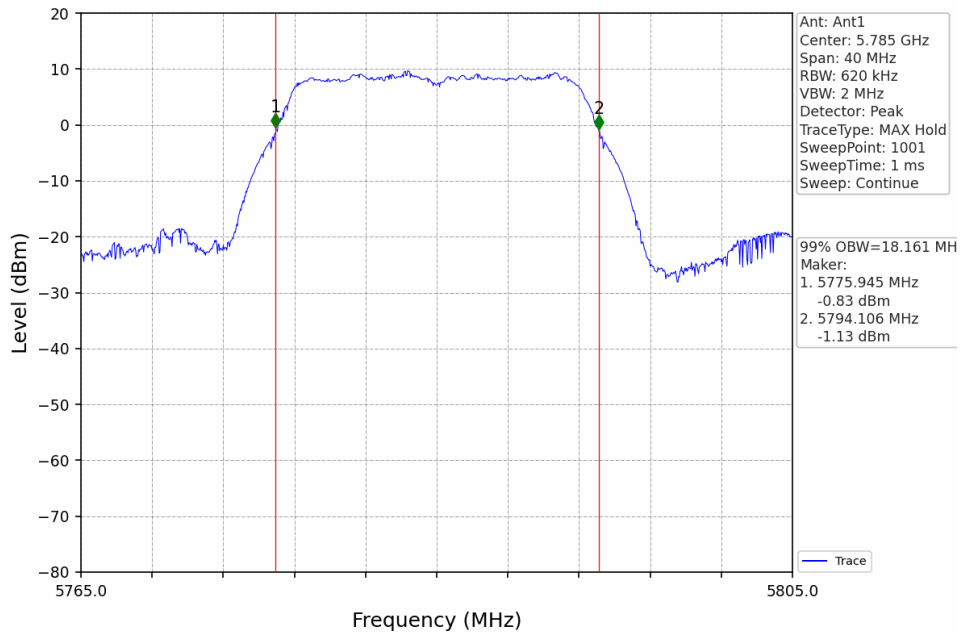
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



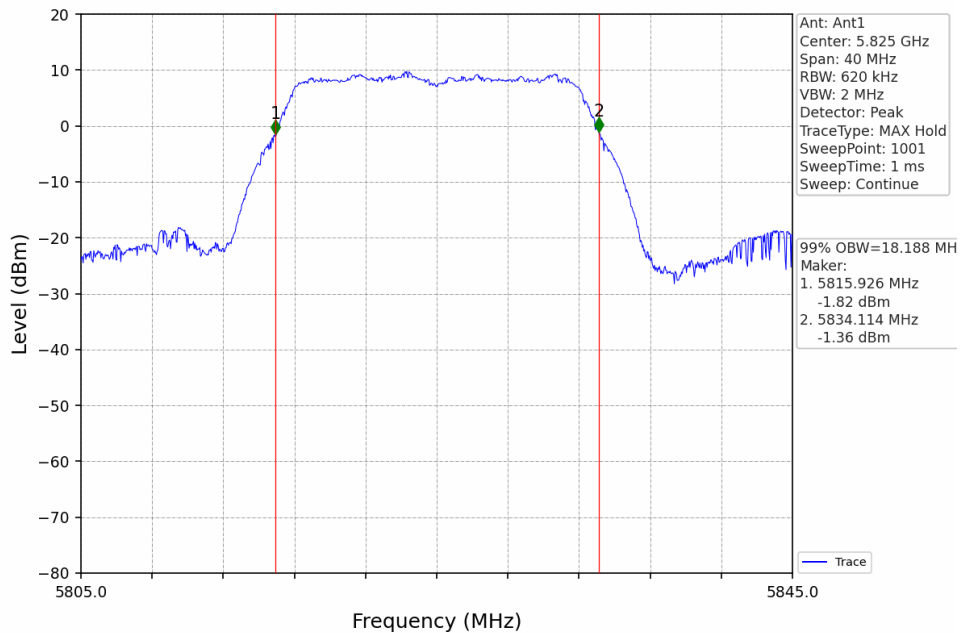
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



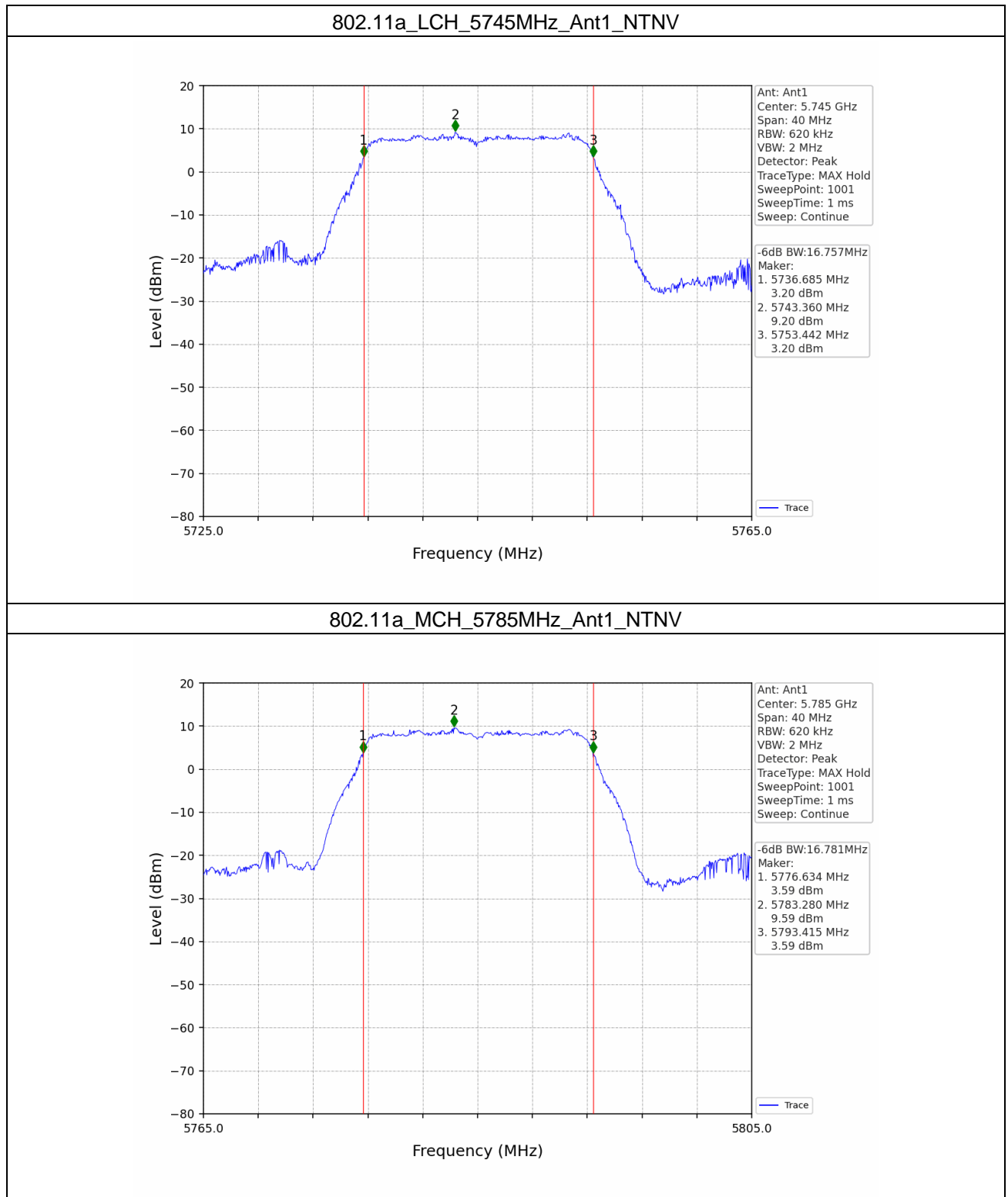
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2.2 6dB BW

2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | 6dB Bandwidth (MHz) | | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 802.11a | SISO | 5745 | 1 | 16.757 | ≥ 0.5 | Pass |
| | | 5785 | 1 | 16.781 | ≥ 0.5 | Pass |
| | | 5825 | 1 | 16.713 | ≥ 0.5 | Pass |
| 802.11n (HT20) | SISO | 5745 | 1 | 16.837 | ≥ 0.5 | Pass |
| | | 5785 | 1 | 16.955 | ≥ 0.5 | Pass |
| | | 5825 | 1 | 16.884 | ≥ 0.5 | Pass |

2.2.2 Test Graph



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