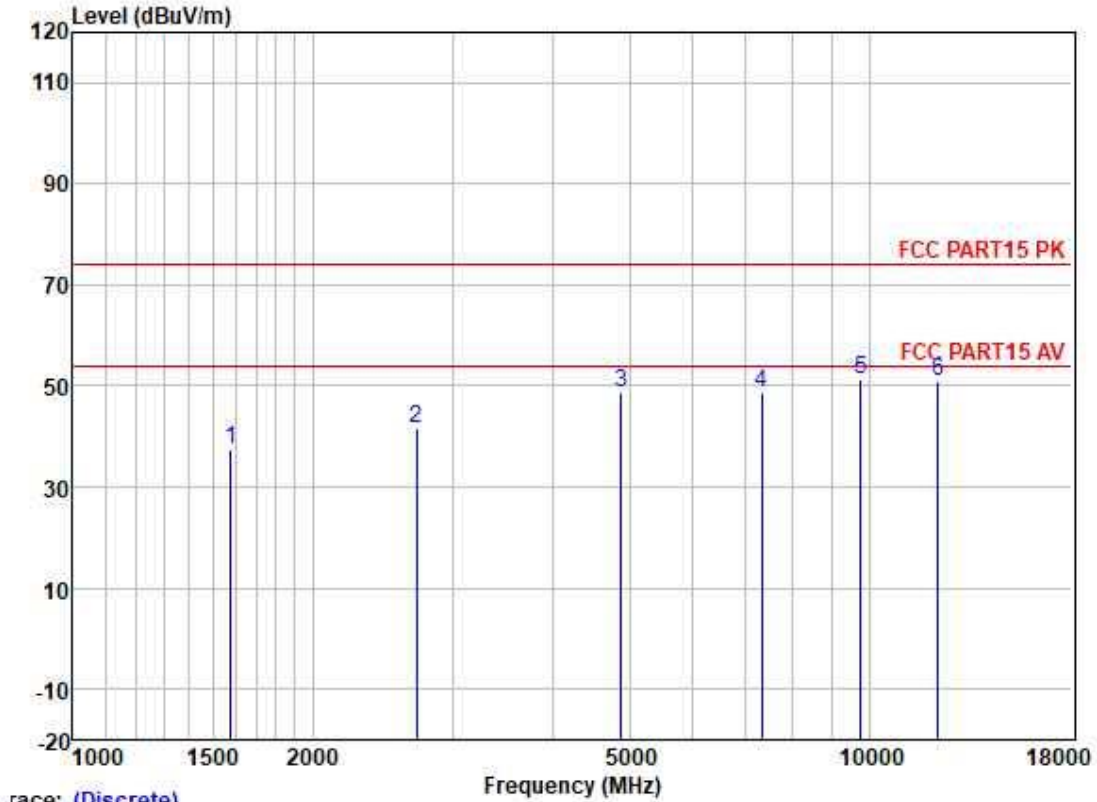


Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle;



Trace: (Discrete)

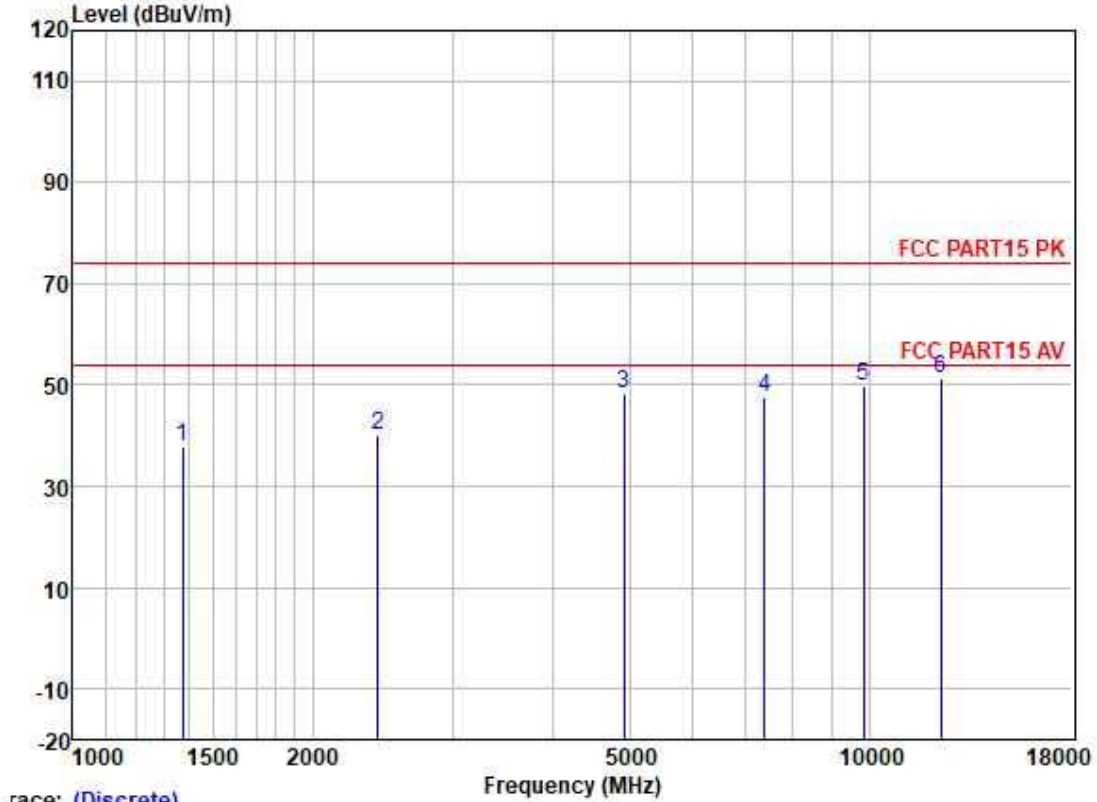
| | ReadAntenna | Cable | Preamp | Limit | Over | | | | | |
|------|-------------|-------|--------|-------|--------|-----------|--------|--------|----------|------|
| Freq | Level | Loss | Factor | Line | Limit | Pol/Phase | Remark | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 1578.822 | 47.21 | 25.56 | 2.80 | 38.00 | 37.57 | 74.00 | -36.43 | VERTICAL | Peak |
| 2 | 2702.799 | 47.64 | 27.84 | 3.60 | 37.47 | 41.61 | 74.00 | -32.39 | VERTICAL | Peak |
| 3 | 4884.948 | 48.59 | 31.56 | 5.52 | 36.84 | 48.83 | 74.00 | -25.17 | VERTICAL | Peak |
| 4 | 7326.804 | 43.94 | 36.00 | 6.13 | 37.43 | 48.64 | 74.00 | -25.36 | VERTICAL | Peak |
| 5 | 9768.588 | 43.02 | 38.53 | 7.01 | 37.41 | 51.15 | 74.00 | -22.85 | VERTICAL | Peak |
| 6 | 12210.670 | 41.09 | 38.74 | 8.08 | 37.00 | 50.91 | 74.00 | -23.09 | VERTICAL | Peak |



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High;



Trace: (Discrete)

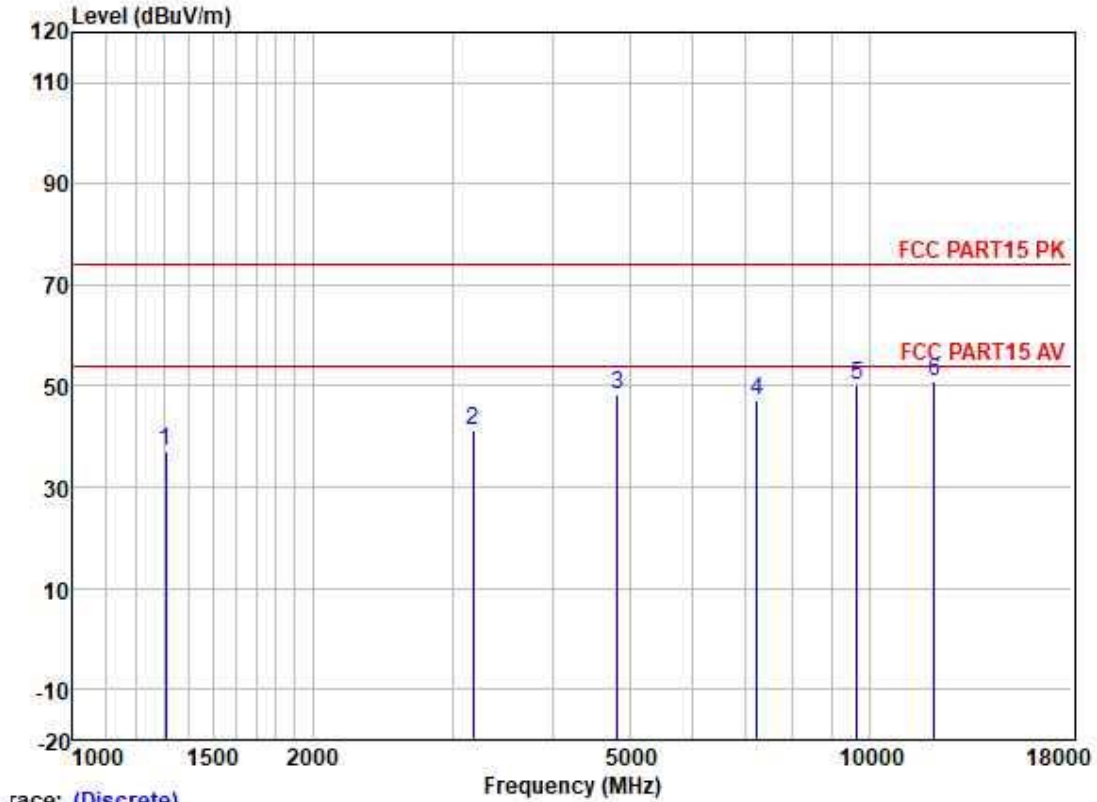
| Peak | Freq MHz | ReadAntenna Level dBuV | Cable Factor dB/m | Preamp Loss dB | Level dB | Limit dBuV/m | Over Limit dB | Pol/Phase | Remark |
|------|-------------|------------------------------|-------------------------|----------------------|-------------|-----------------|---------------------|-----------|--------|
| 1 | 1374.295 | 48.03 | 25.35 | 2.60 | 38.25 | 74.00 | -36.27 | VERTICAL | Peak |
| 2 | 2414.672 | 46.70 | 27.38 | 3.47 | 37.58 | 74.00 | -34.03 | VERTICAL | Peak |
| 3 | 4924.490 | 47.77 | 31.62 | 5.60 | 36.84 | 74.00 | -25.85 | VERTICAL | Peak |
| 4 | 7386.708 | 42.60 | 36.17 | 6.19 | 37.45 | 74.00 | -26.49 | VERTICAL | Peak |
| 5 | 9848.146 | 41.60 | 38.58 | 6.99 | 37.41 | 74.00 | -24.24 | VERTICAL | Peak |
| 6 | 12310.670 | 41.49 | 38.63 | 8.01 | 36.95 | 74.00 | -22.82 | VERTICAL | Peak |



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low;



Trace: (Discrete)

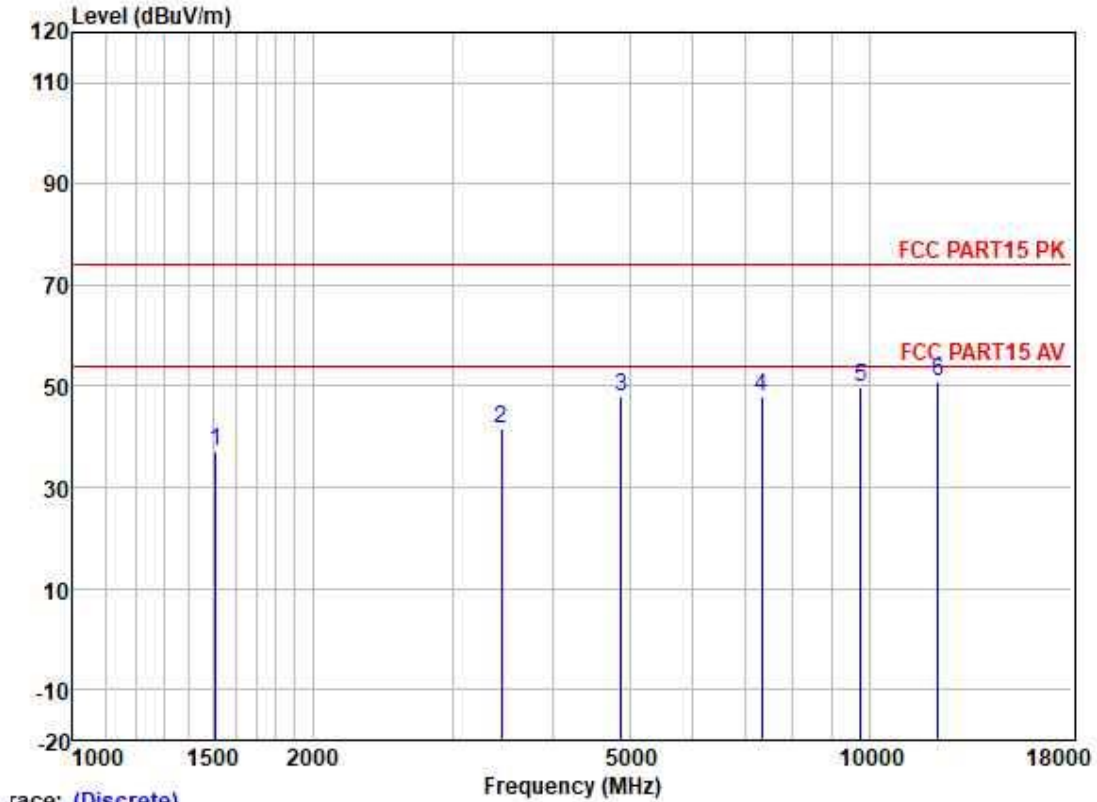
| | ReadAntenna | Cable | Preamp | Limit | Over | | | | | |
|------|-------------|-------|--------|-------|--------|-----------|--------|--------|----------|------|
| Freq | Level | Loss | Factor | Line | Limit | Pol/Phase | Remark | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | | | |
| 1 | 1308.399 | 47.49 | 25.22 | 2.60 | 38.31 | 37.00 | 74.00 | -37.00 | VERTICAL | Peak |
| 2 | 3177.672 | 45.83 | 28.56 | 3.99 | 37.10 | 41.28 | 74.00 | -32.72 | VERTICAL | Peak |
| 3 | 4824.016 | 48.16 | 31.45 | 5.42 | 36.83 | 48.20 | 74.00 | -25.80 | VERTICAL | Peak |
| 4 | 7236.373 | 42.90 | 35.70 | 6.03 | 37.39 | 47.24 | 74.00 | -26.76 | VERTICAL | Peak |
| 5 | 9648.852 | 41.96 | 38.40 | 7.06 | 37.42 | 50.00 | 74.00 | -24.00 | VERTICAL | Peak |
| 6 | 12060.980 | 41.12 | 38.88 | 8.17 | 37.08 | 51.09 | 74.00 | -22.91 | VERTICAL | Peak |



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle;



Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | | | |
|------|-------------|-------|--------|-------|--------|-----------|--------|--------|----------|------|
| Freq | Level | Loss | Factor | Line | Limit | Pol/Phase | Remark | | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | |
| 1 | 1511.833 | 46.89 | 25.51 | 2.80 | 38.10 | 37.10 | 74.00 | -36.90 | VERTICAL | Peak |
| 2 | 3455.508 | 45.40 | 28.88 | 4.20 | 36.96 | 41.52 | 74.00 | -32.48 | VERTICAL | Peak |
| 3 | 4884.151 | 47.86 | 31.56 | 5.52 | 36.84 | 48.10 | 74.00 | -25.90 | VERTICAL | Peak |
| 4 | 7326.461 | 43.33 | 36.00 | 6.13 | 37.43 | 48.03 | 74.00 | -25.97 | VERTICAL | Peak |
| 5 | 9768.540 | 41.52 | 38.53 | 7.01 | 37.41 | 49.65 | 74.00 | -24.35 | VERTICAL | Peak |
| 6 | 12210.710 | 41.16 | 38.74 | 8.08 | 37.00 | 50.98 | 74.00 | -23.02 | VERTICAL | Peak |

Remark: According to the standard of C63.10, the test data of Peak is below the limit of average(54dBUV), so the peak data was showed only.



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8 Appendix

Cable loss=0.9dB

8.1 Appendix A: DTS Bandwidth

8.1.1 Test Result

| TestMode | Antenna | Channel | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|---------|--------------|----------|----------|------------|---------|
| 11B | Ant1 | 2412 | 8.240 | 2407.760 | 2416.000 | 0.5 | PASS |
| | | 2442 | 8.920 | 2437.800 | 2446.720 | 0.5 | PASS |
| | | 2462 | 8.160 | 2457.800 | 2465.960 | 0.5 | PASS |
| 11G | Ant1 | 2412 | 16.520 | 2403.680 | 2420.200 | 0.5 | PASS |
| | | 2442 | 16.520 | 2433.680 | 2450.200 | 0.5 | PASS |
| | | 2462 | 16.520 | 2453.680 | 2470.200 | 0.5 | PASS |
| 11N20SISO | Ant1 | 2412 | 17.720 | 2403.080 | 2420.800 | 0.5 | PASS |
| | | 2442 | 17.720 | 2433.080 | 2450.800 | 0.5 | PASS |
| | | 2462 | 17.760 | 2453.080 | 2470.840 | 0.5 | PASS |



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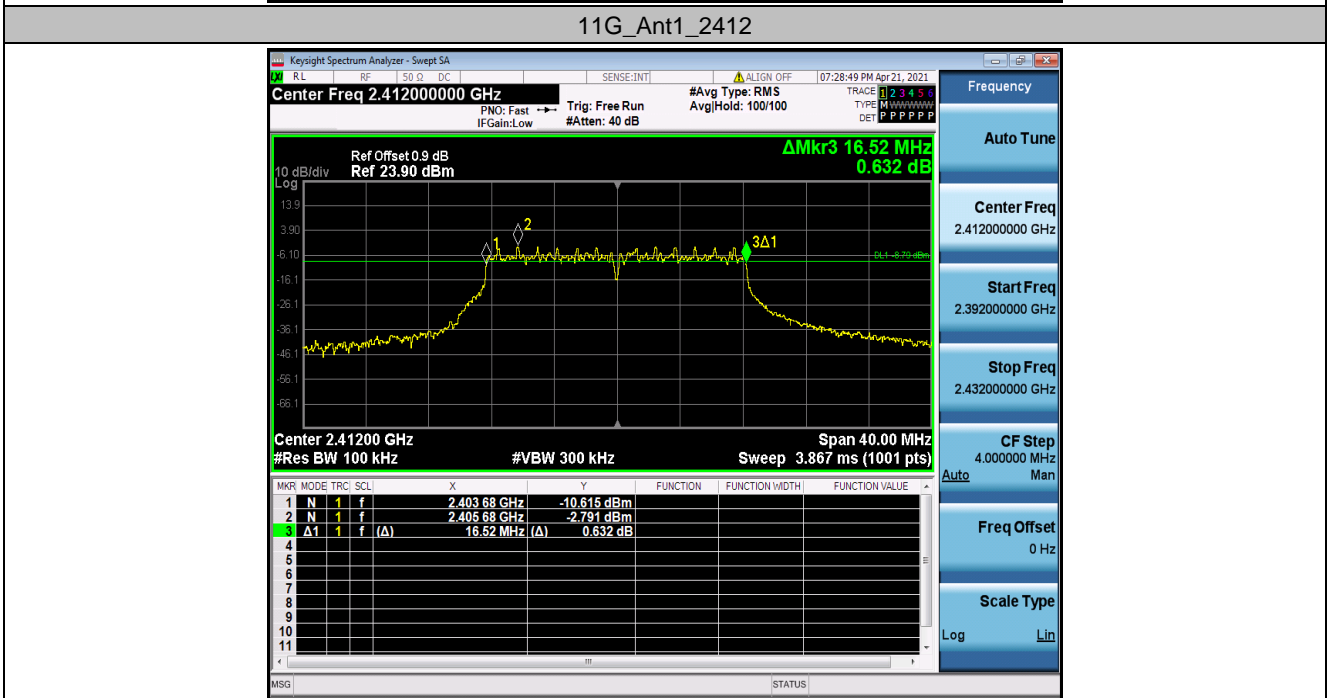
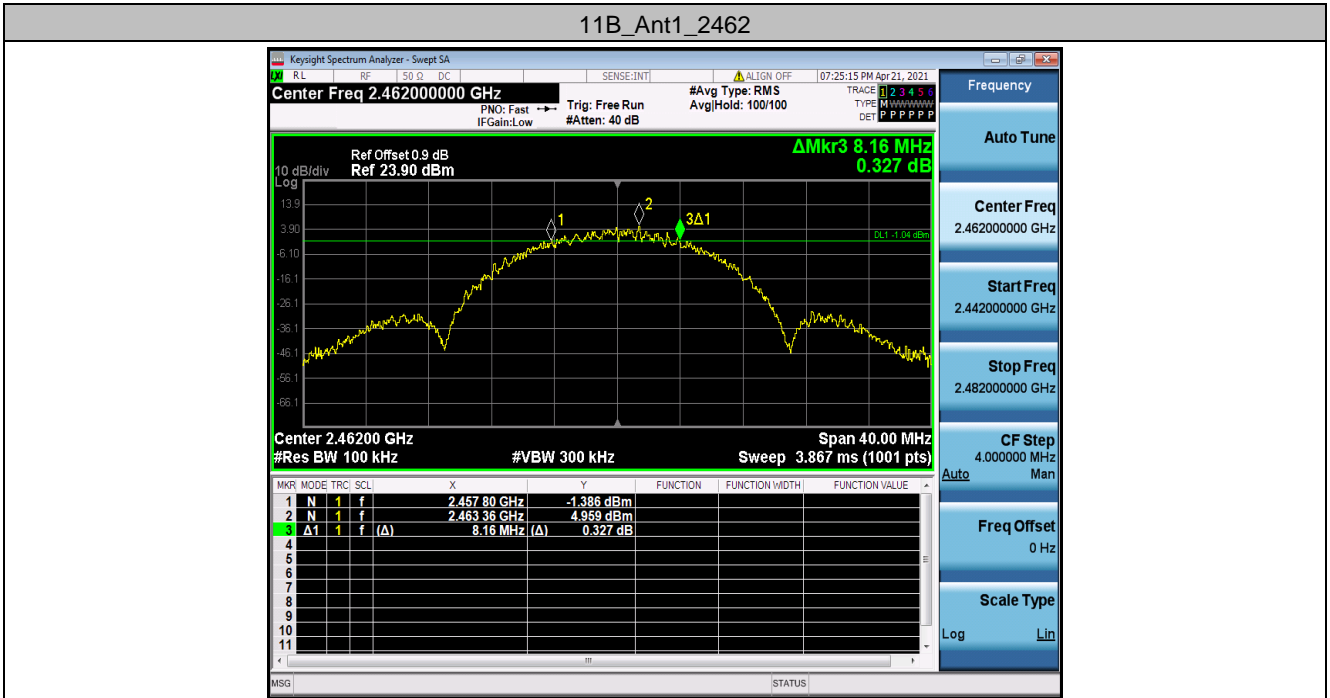
8.1.2 Test Graphs



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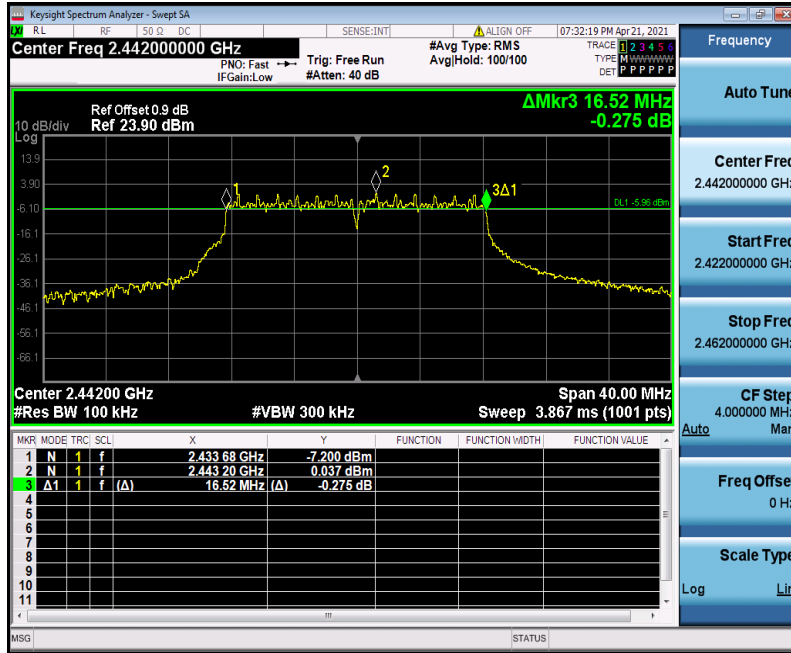
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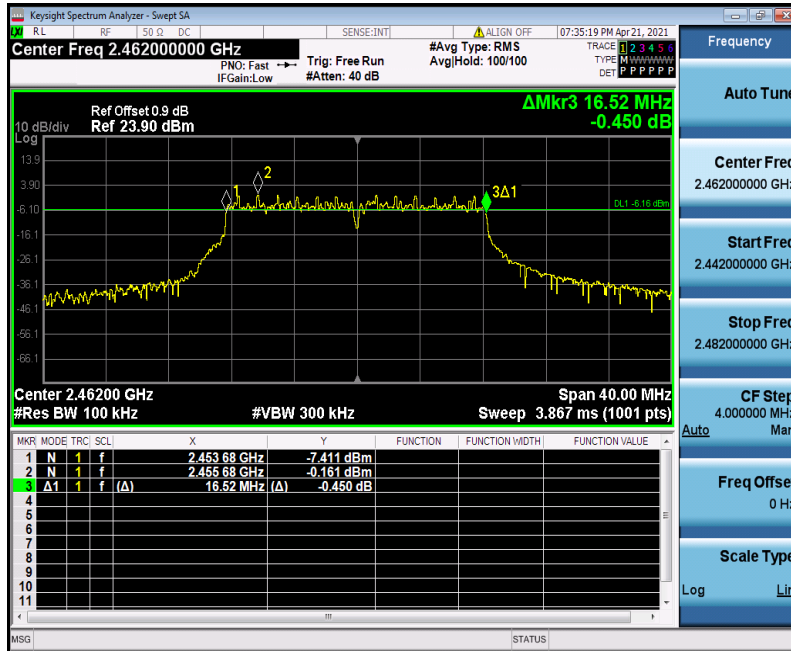
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11G_Ant1_2442



11G_Ant1_2462

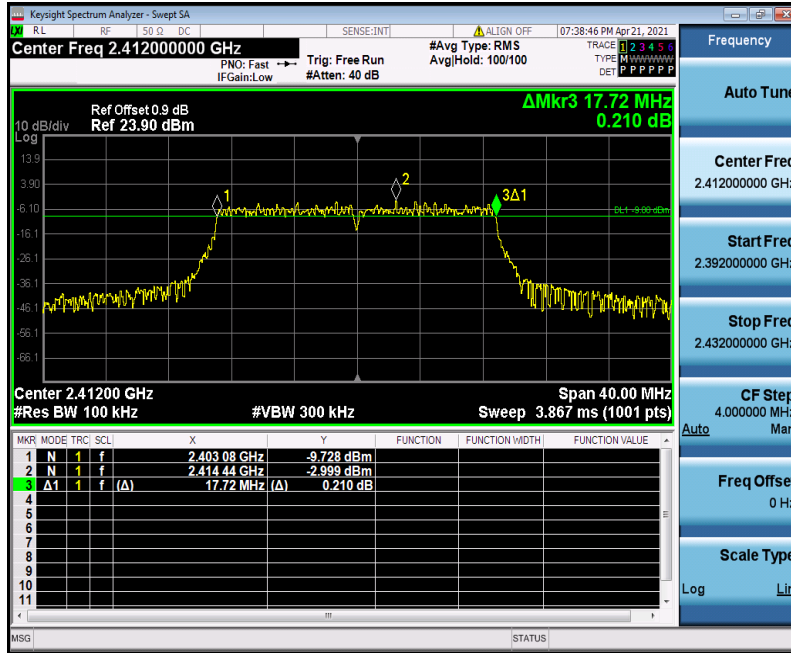


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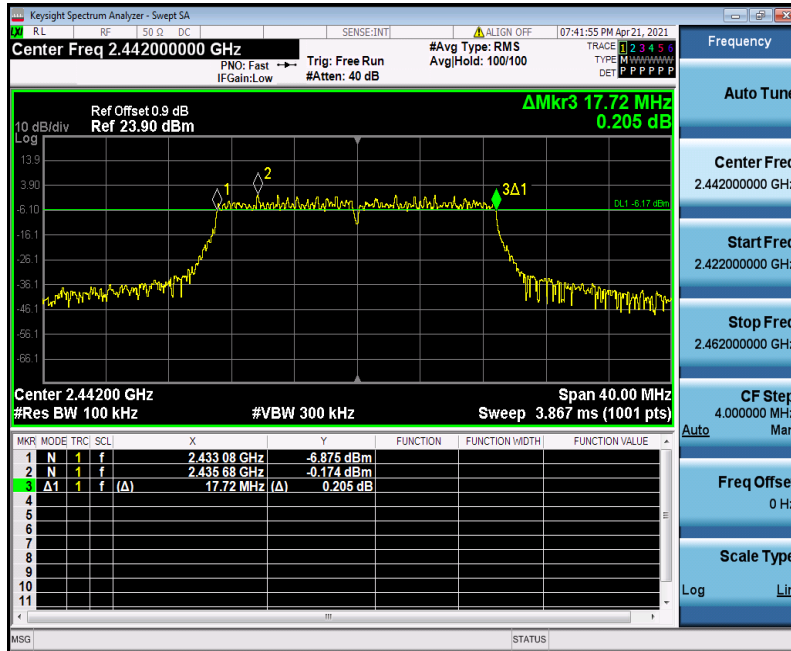
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11N20SISO_Ant1_2412



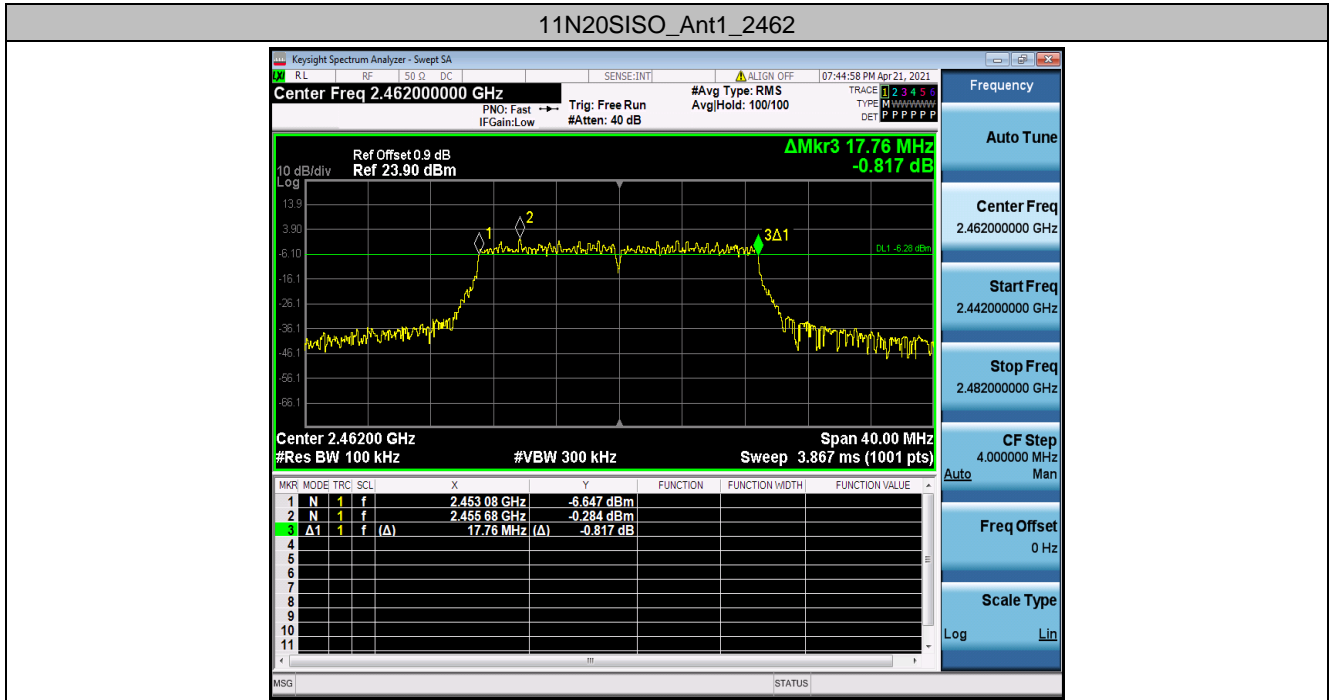
11N20SISO_Ant1_2442



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8.2 Appendix C: Maximum conducted output power

8.2.1 Test Result

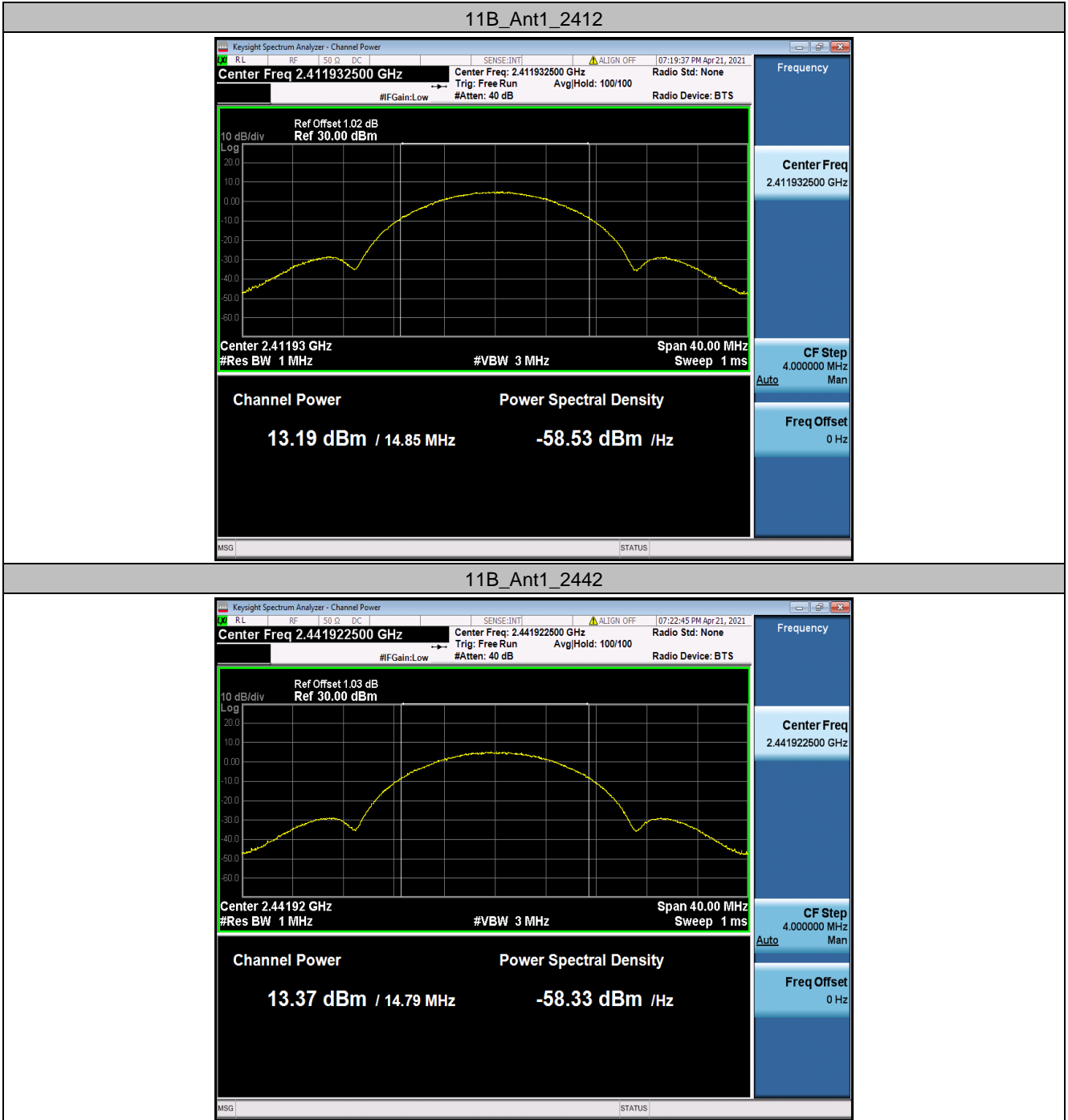
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|-----------|---------|---------|-------------|------------|---------|
| 11B | Ant1 | 2412 | 13.19 | <=30 | PASS |
| | | 2442 | 13.37 | <=30 | PASS |
| | | 2462 | 13.22 | <=30 | PASS |
| 11G | Ant1 | 2412 | 8.58 | <=30 | PASS |
| | | 2442 | 11.18 | <=30 | PASS |
| | | 2462 | 11.08 | <=30 | PASS |
| 11N20SISO | Ant1 | 2412 | 8.53 | <=30 | PASS |
| | | 2442 | 11.16 | <=30 | PASS |
| | | 2462 | 11.05 | <=30 | PASS |



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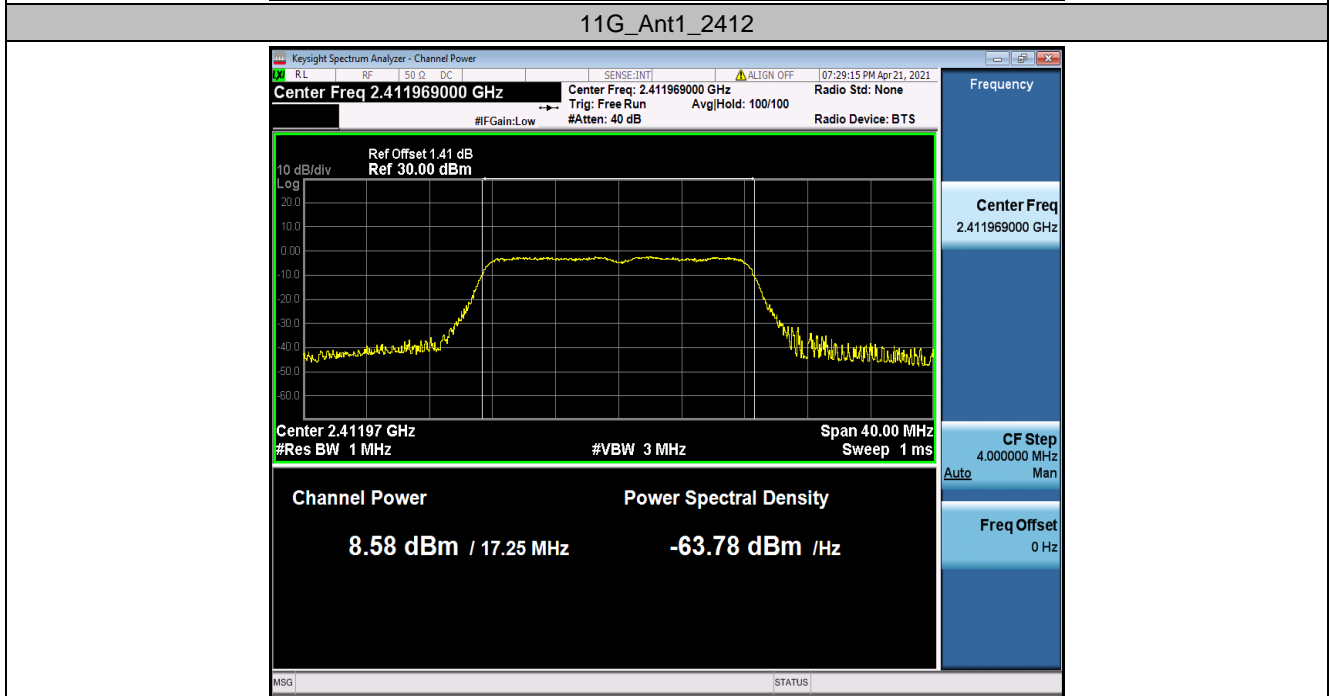
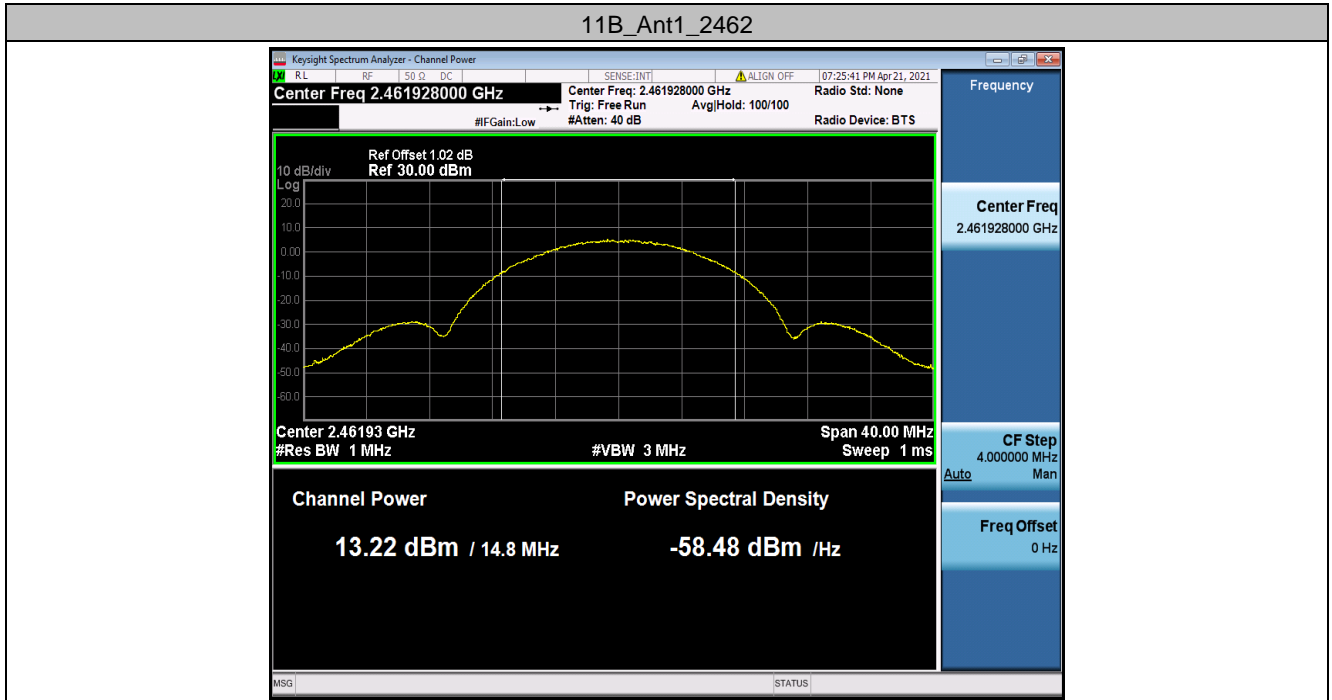
8.2.2 Test Graphs



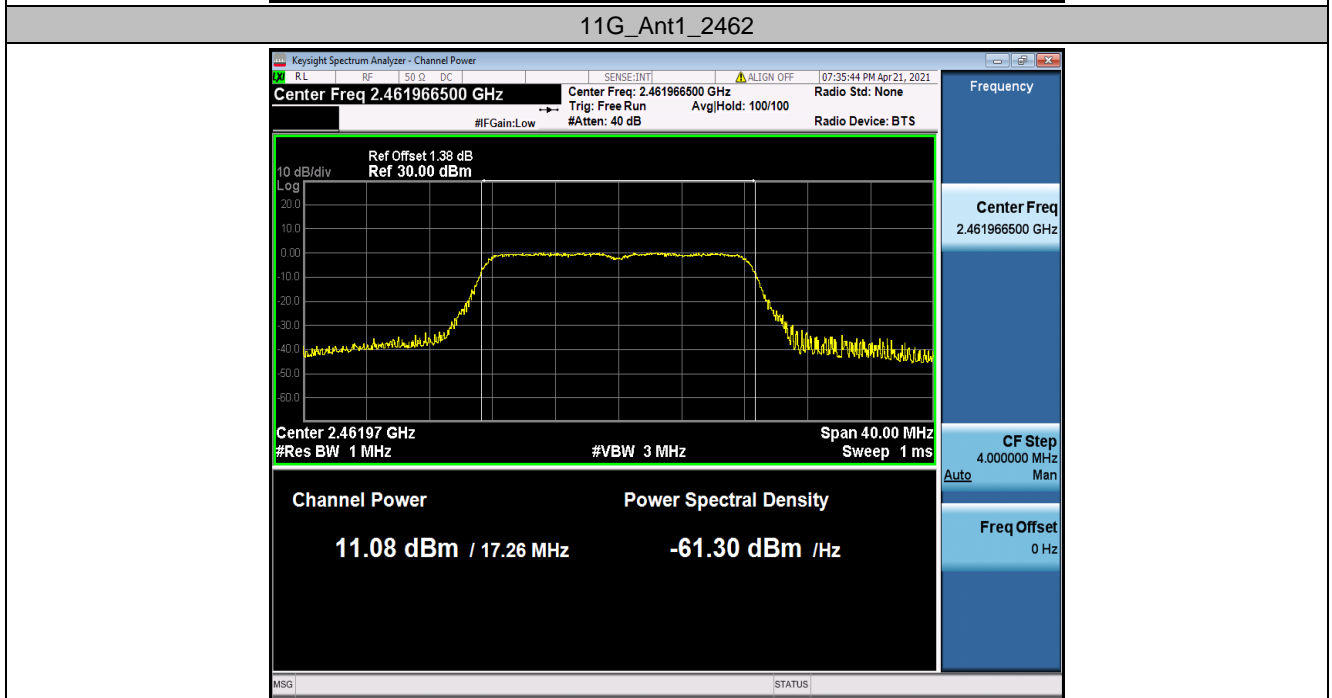
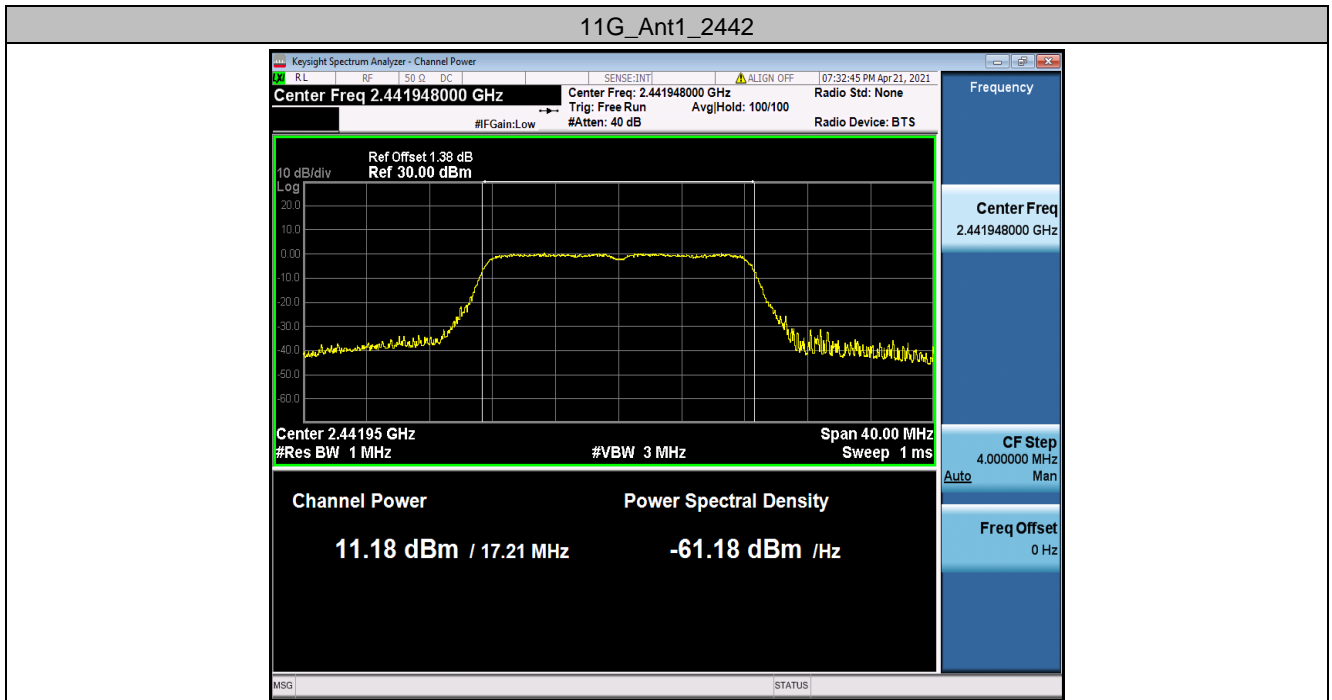
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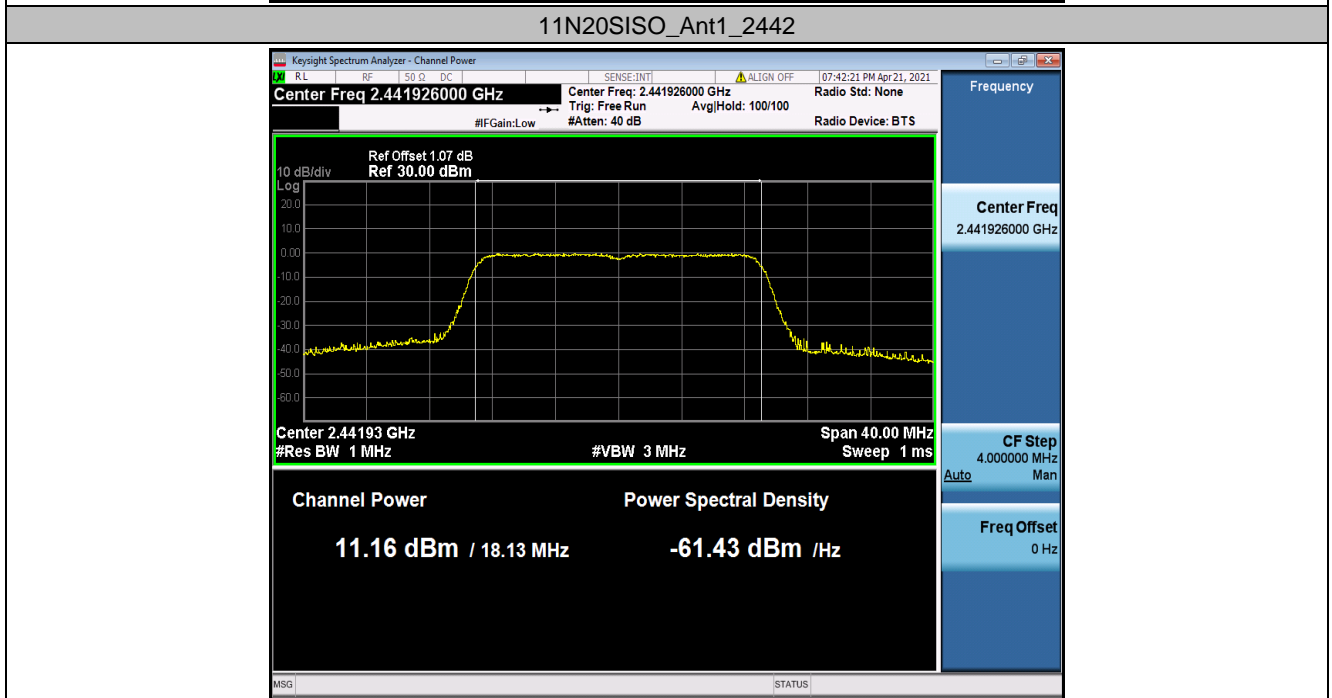
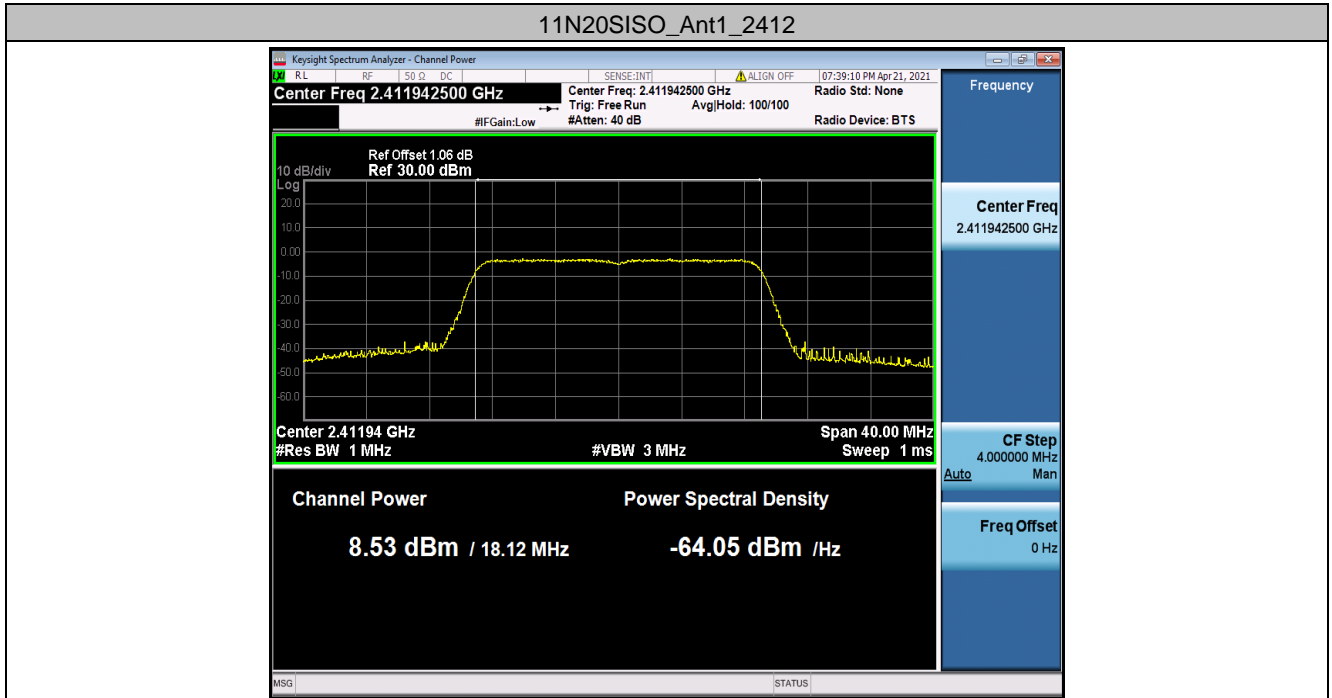
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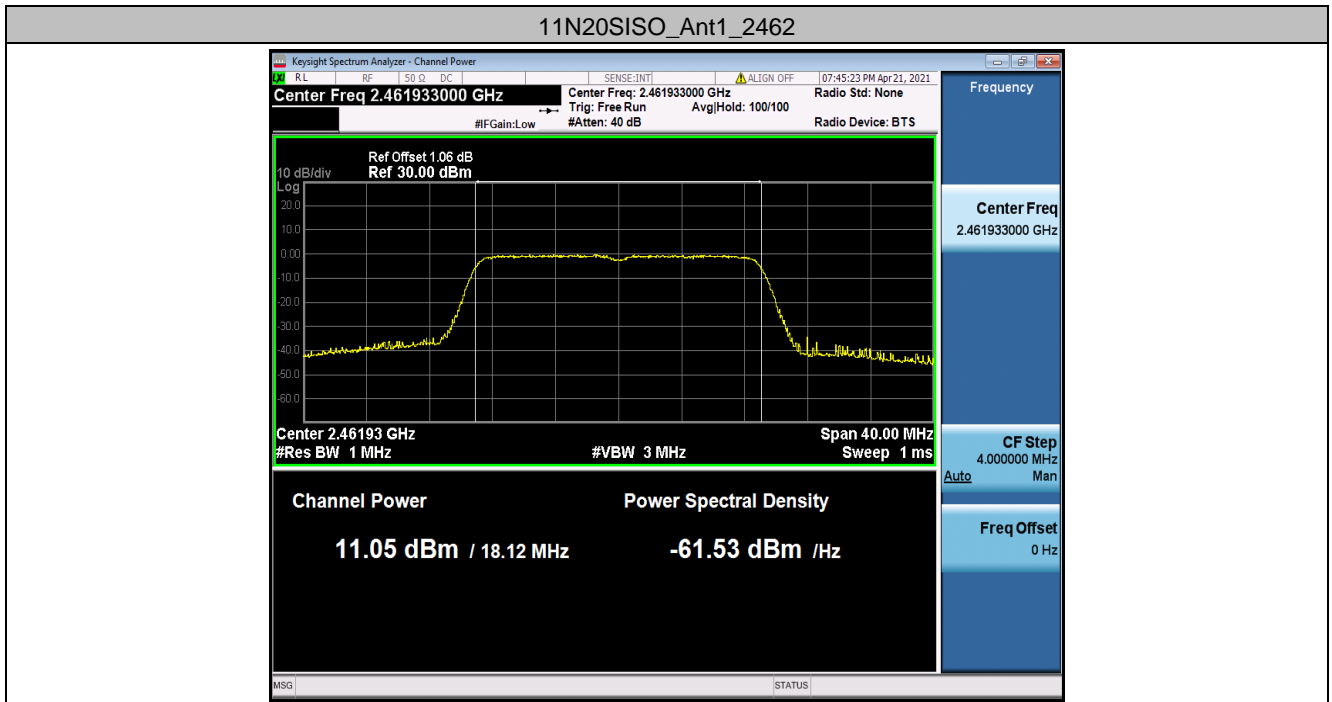
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8.3 Appendix D: Maximum power spectral density

8.3.1 Test Result

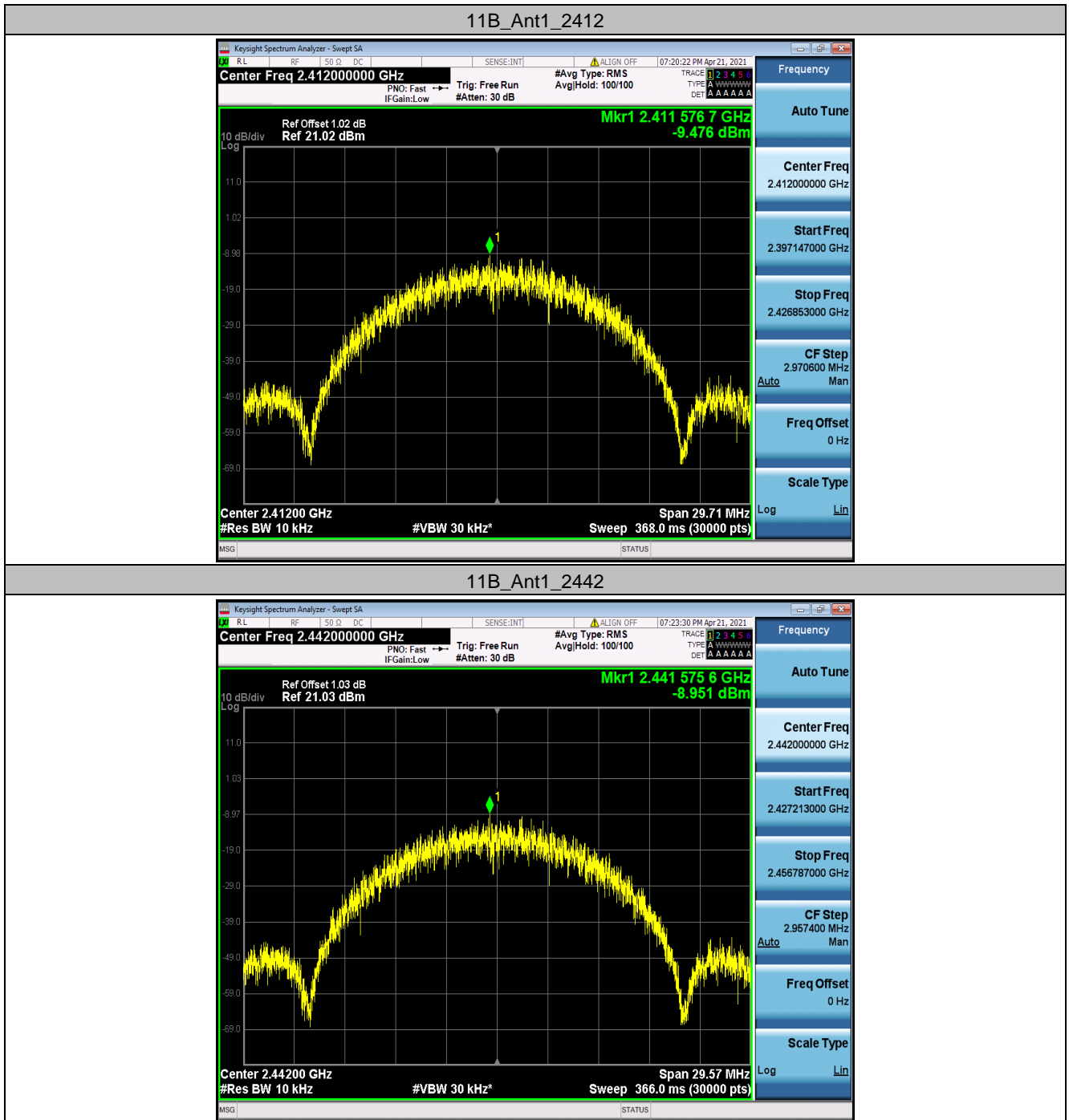
| TestMode | Antenna | Channel | Result[dBm/3-100kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|---------|----------------------|-----------------|---------|
| 11B | Ant1 | 2412 | -9.48 | <=8 | PASS |
| | | 2442 | -8.95 | <=8 | PASS |
| | | 2462 | -9.82 | <=8 | PASS |
| 11G | Ant1 | 2412 | -16.62 | <=8 | PASS |
| | | 2442 | -14 | <=8 | PASS |
| | | 2462 | -14.42 | <=8 | PASS |
| 11N20SISO | Ant1 | 2412 | -19.04 | <=8 | PASS |
| | | 2442 | -16.52 | <=8 | PASS |
| | | 2462 | -16.17 | <=8 | PASS |



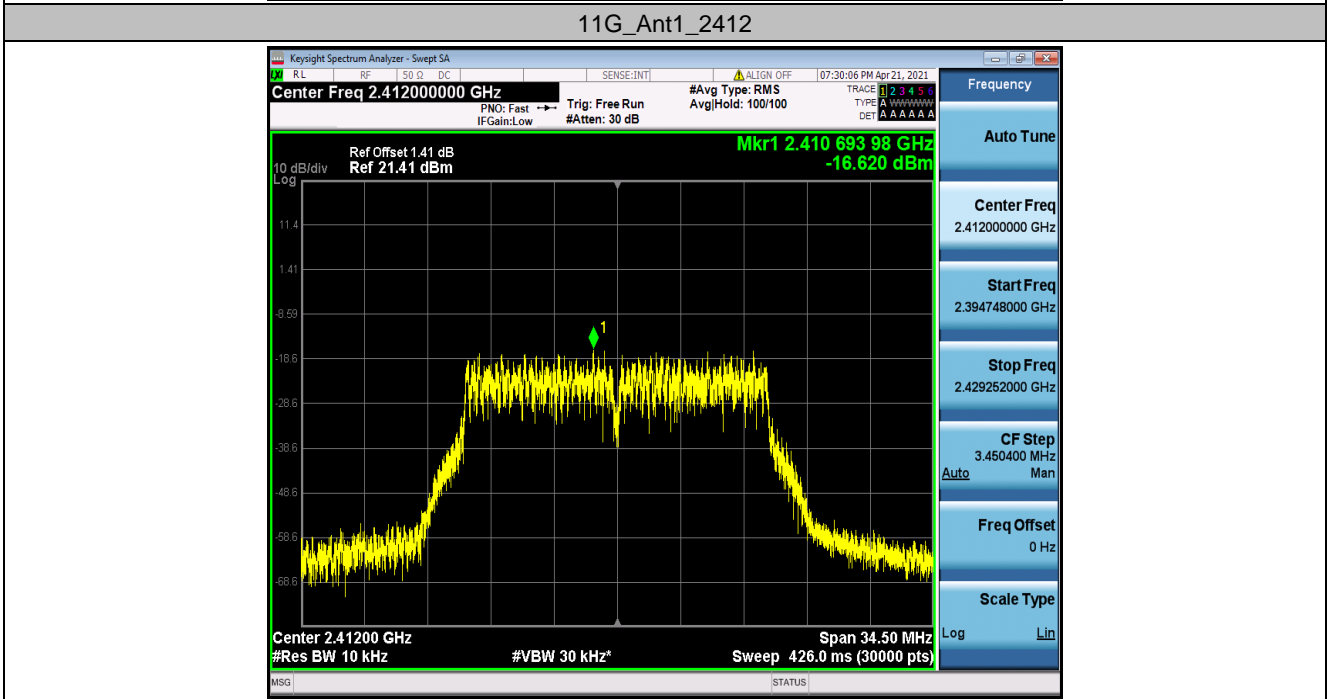
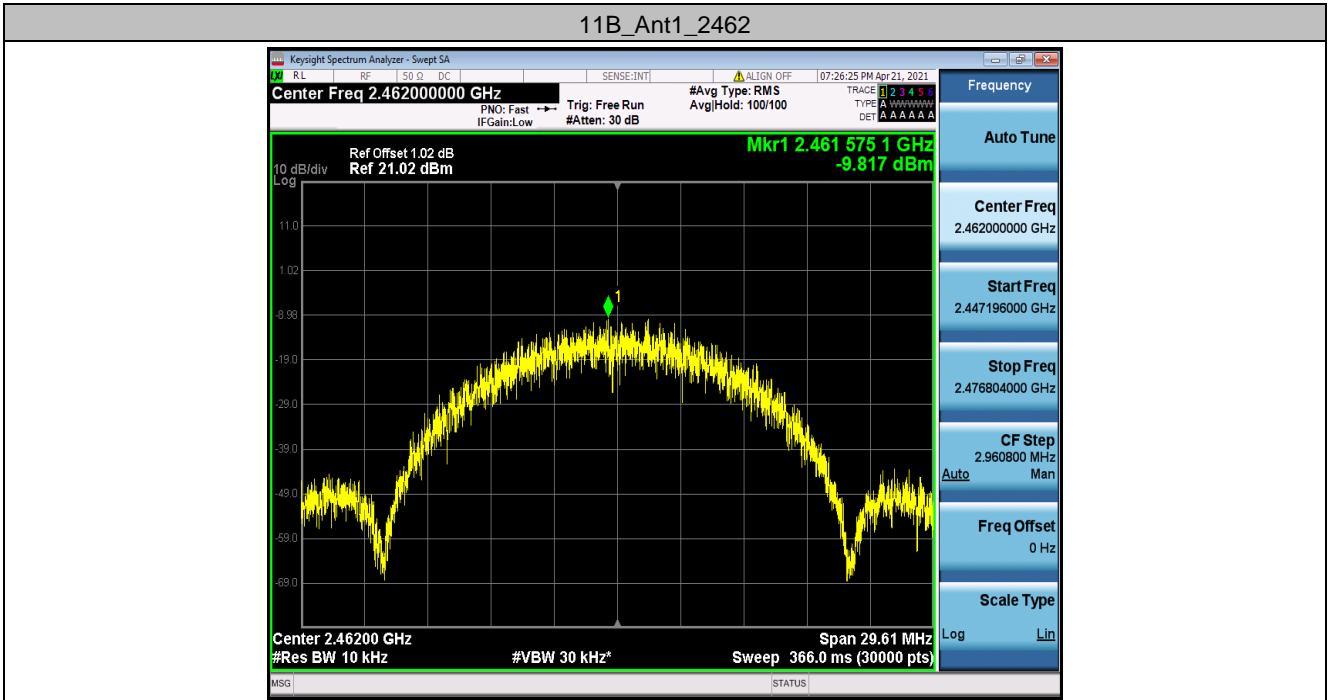
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8.3.2 Test Graphs

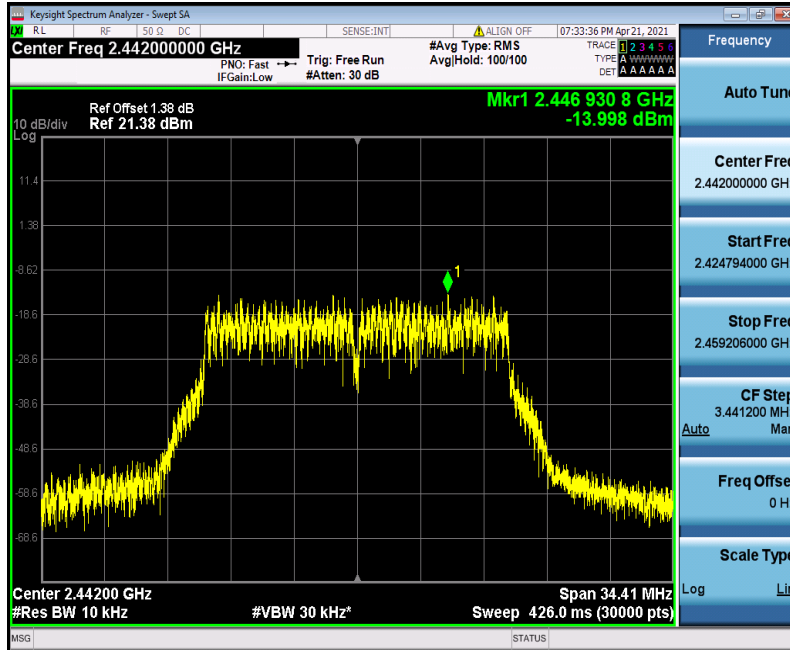


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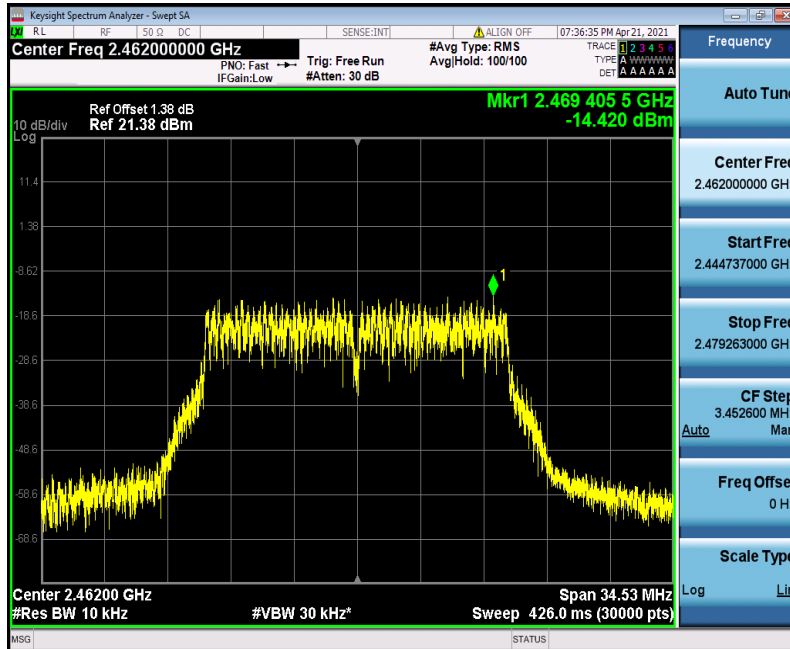


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11G_Ant1_2442

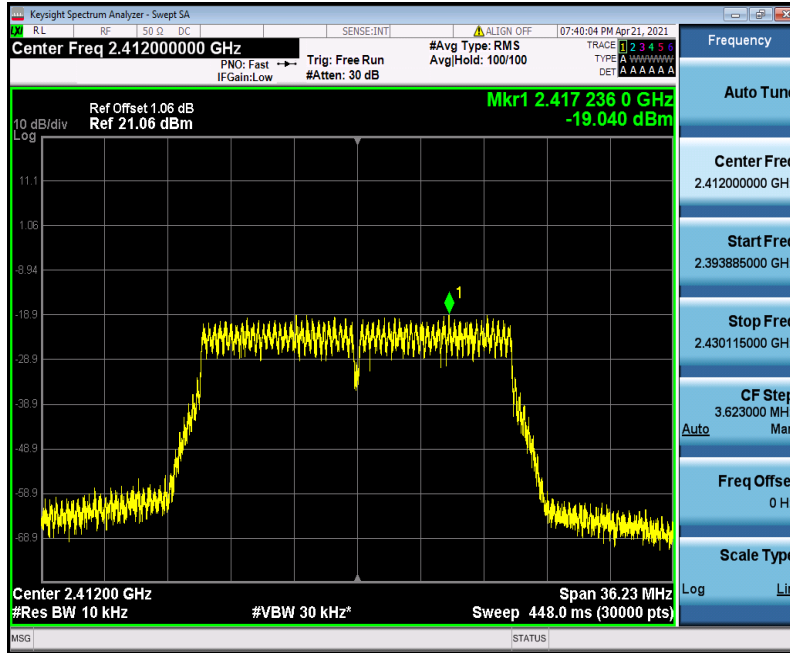


11G_Ant1_2462

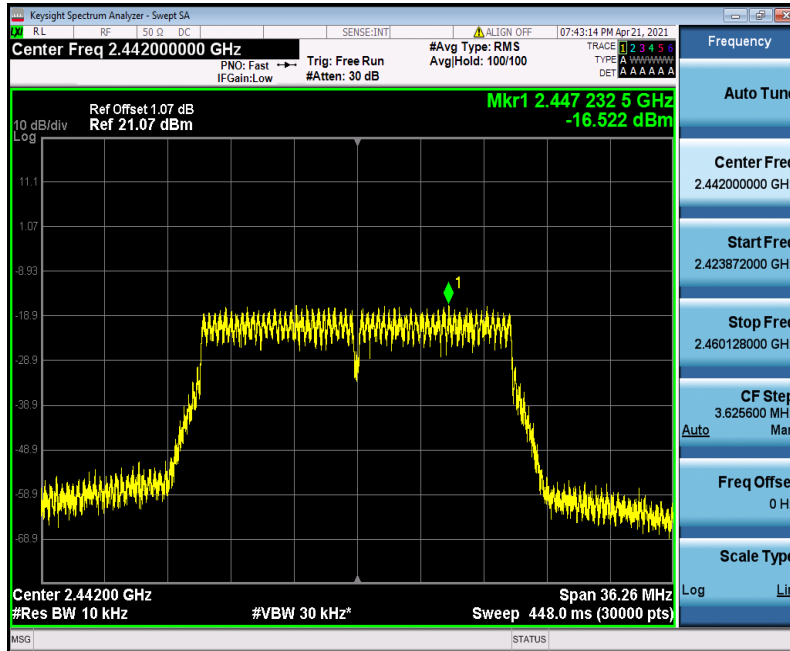


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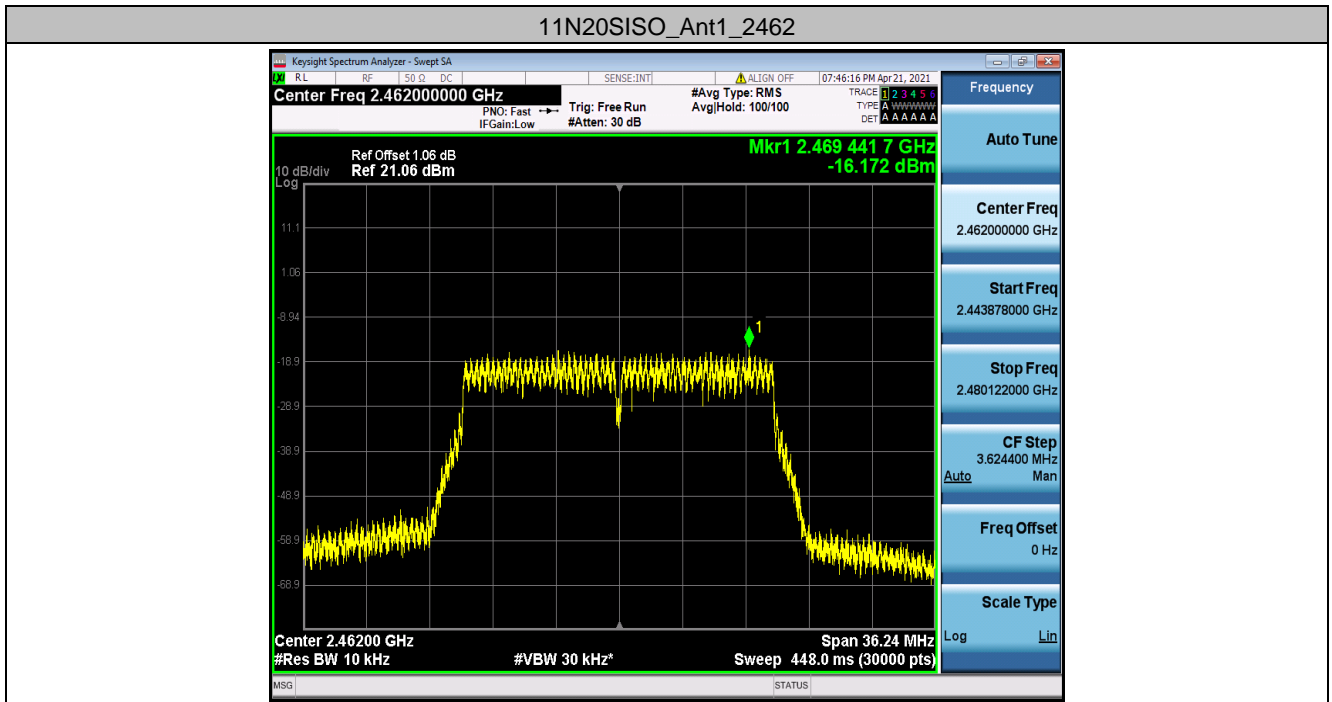
11N20SISO_Ant1_2412



11N20SISO_Ant1_2442



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8.4 Appendix E: Band edge measurements

8.4.1 Test Result

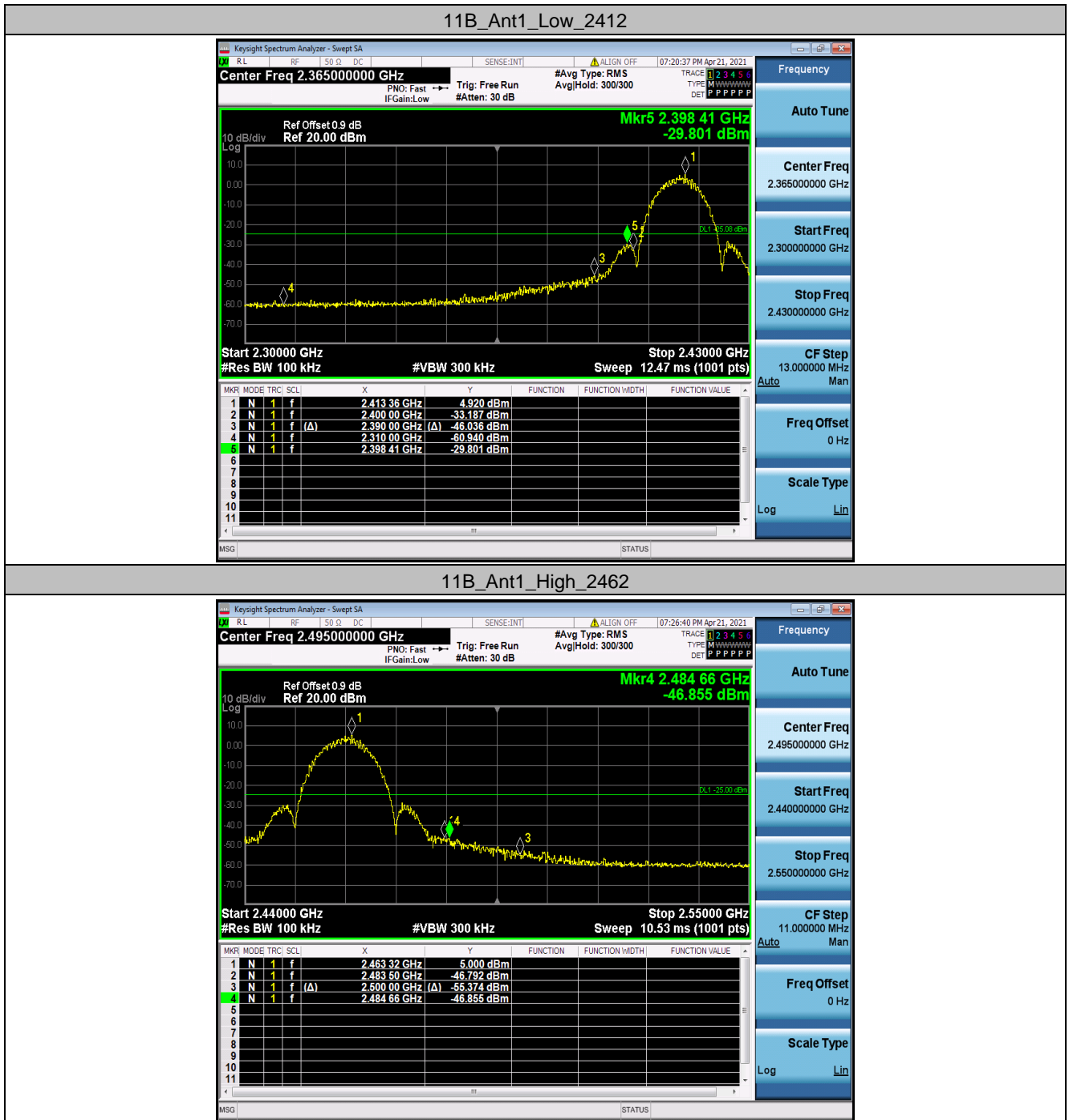
| TestMode | Antenna | ChName | Channel | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|--------|---------|---------------|-------------|------------|---------|
| 11B | Ant1 | Low | 2412 | 4.92 | -29.8 | <=-25.08 | PASS |
| | | High | 2462 | 5.00 | -46.86 | <=-25 | PASS |
| 11G | Ant1 | Low | 2412 | -2.51 | -36.81 | <=-32.51 | PASS |
| | | High | 2462 | 0.04 | -40.44 | <=-29.96 | PASS |
| 11N20SISO | Ant1 | Low | 2412 | -2.50 | -37.41 | <=-32.49 | PASS |
| | | High | 2462 | -0.08 | -42.69 | <=-30.08 | PASS |



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8.4.2 Test Graphs



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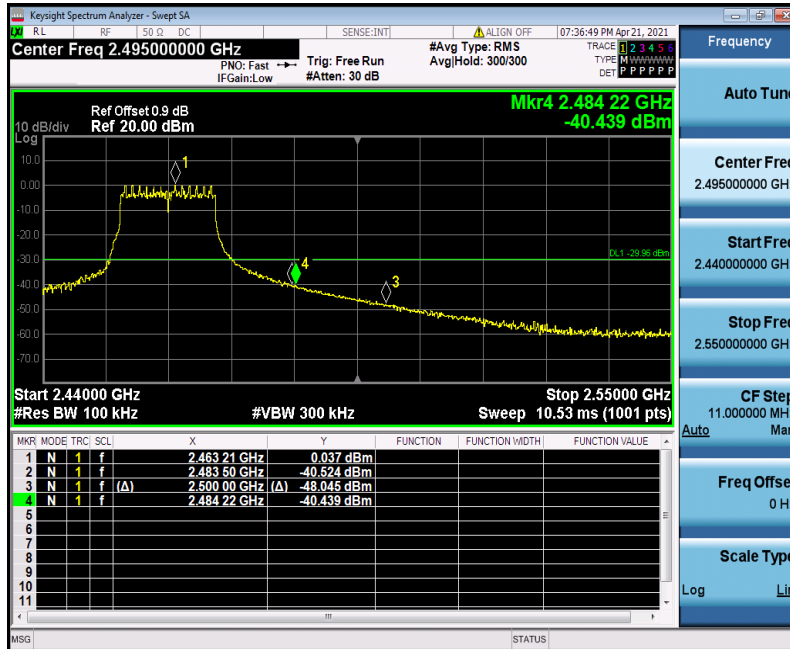
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11G_Ant1_Low_2412



11G_Ant1_High_2462

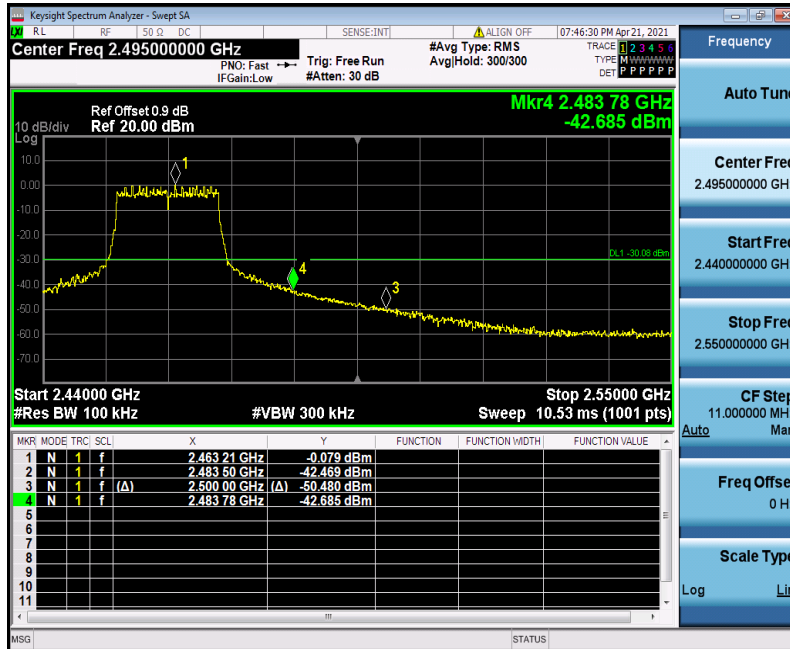


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11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



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8.5 Appendix F: Conducted Spurious Emission

8.5.1 Test Result

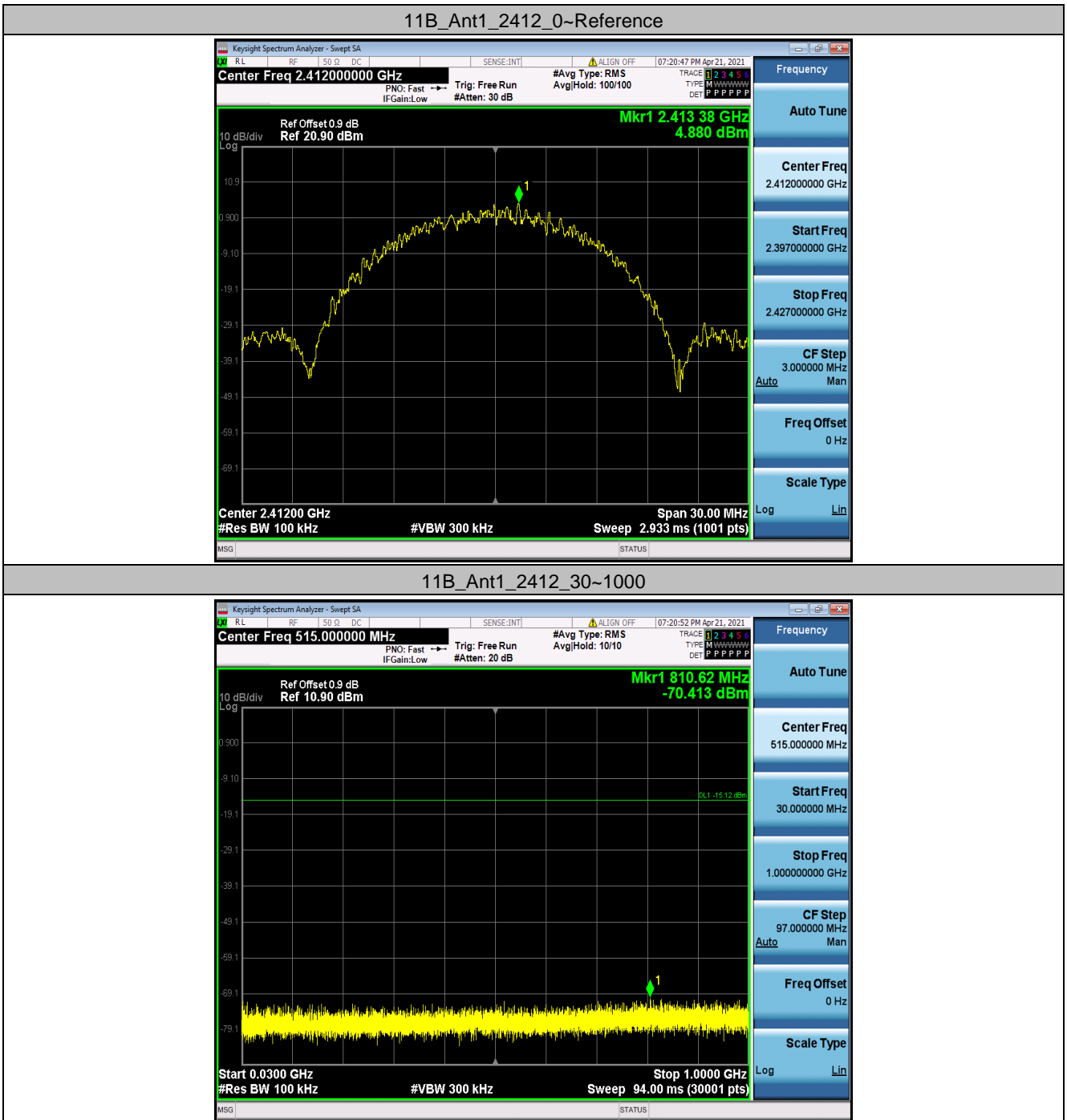
| TestMode | Antenna | Channel | FreqRange [Mhz] | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|---------|-----------------|----------------|--------------|-------------|---------|
| 11B | Ant1 | 2412 | Reference | 4.88 | 4.88 | --- | PASS |
| | | | 30~1000 | 30~1000 | -70.413 | <=-15.12 | PASS |
| | | | 1000~26500 | 1000~26500 | -46.519 | <=-15.12 | PASS |
| | | 2442 | Reference | 5.15 | 5.15 | --- | PASS |
| | | | 30~1000 | 30~1000 | -70.012 | <=-14.852 | PASS |
| | | | 1000~26500 | 1000~26500 | -47.908 | <=-14.852 | PASS |
| | | 2462 | Reference | 4.59 | 4.59 | --- | PASS |
| | | | 30~1000 | 30~1000 | -70.798 | <=-15.406 | PASS |
| | | | 1000~26500 | 1000~26500 | -50.738 | <=-15.406 | PASS |
| 11G | Ant1 | 2412 | Reference | -2.50 | -2.50 | --- | PASS |
| | | | 30~1000 | 30~1000 | -69.919 | <=-22.502 | PASS |
| | | | 1000~26500 | 1000~26500 | -54.936 | <=-22.502 | PASS |
| | | 2442 | Reference | 0.18 | 0.18 | --- | PASS |
| | | | 30~1000 | 30~1000 | -68.915 | <=-19.825 | PASS |
| | | | 1000~26500 | 1000~26500 | -55.428 | <=-19.825 | PASS |
| | | 2462 | Reference | -0.23 | -0.23 | --- | PASS |
| | | | 30~1000 | 30~1000 | -70.672 | <=-20.229 | PASS |
| | | | 1000~26500 | 1000~26500 | -55.254 | <=-20.229 | PASS |
| 11N20SISO | Ant1 | 2412 | Reference | -2.79 | -2.79 | --- | PASS |
| | | | 30~1000 | 30~1000 | -69.812 | <=-22.79 | PASS |
| | | | 1000~26500 | 1000~26500 | -55.555 | <=-22.79 | PASS |
| | | 2442 | Reference | -0.06 | -0.06 | --- | PASS |
| | | | 30~1000 | 30~1000 | -70.467 | <=-20.058 | PASS |
| | | | 1000~26500 | 1000~26500 | -55.326 | <=-20.058 | PASS |
| | | 2462 | Reference | -0.35 | -0.35 | --- | PASS |
| | | | 30~1000 | 30~1000 | -69.926 | <=-20.349 | PASS |
| | | | 1000~26500 | 1000~26500 | -55.486 | <=-20.349 | PASS |



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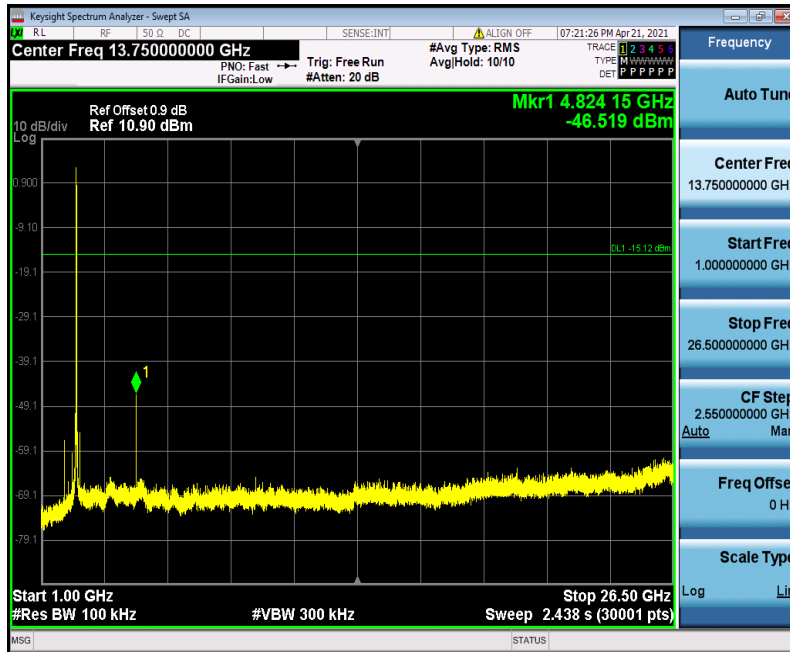
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8.5.2 Test Graphs

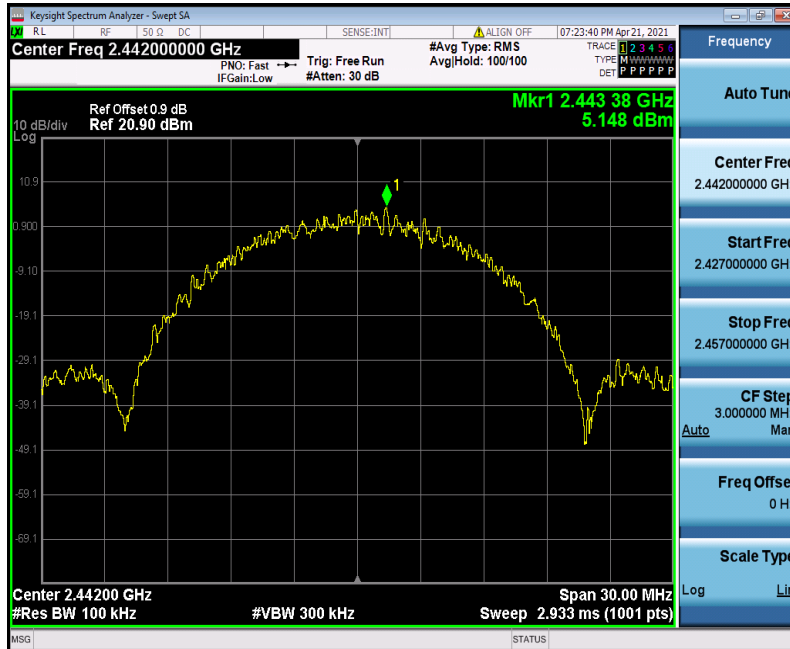


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11B_Ant1_2412_1000~26500

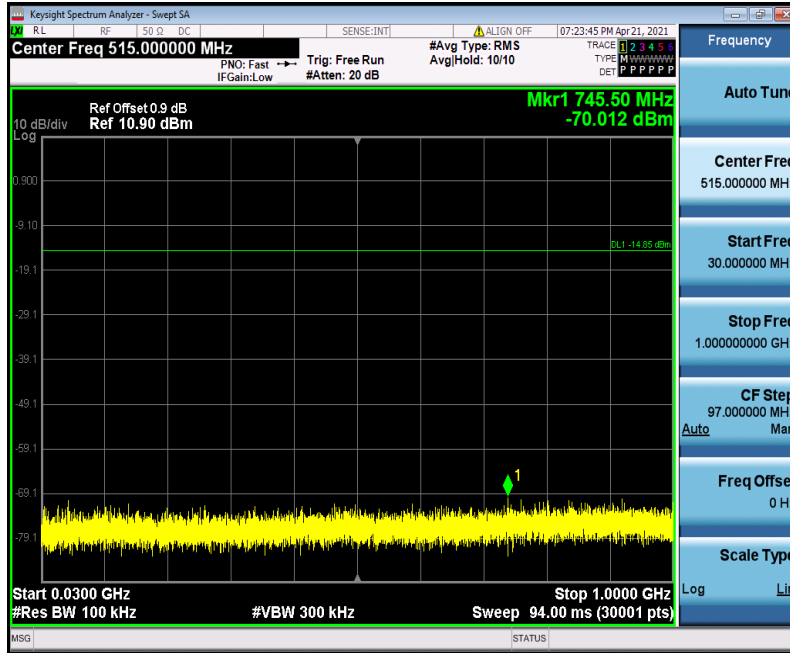


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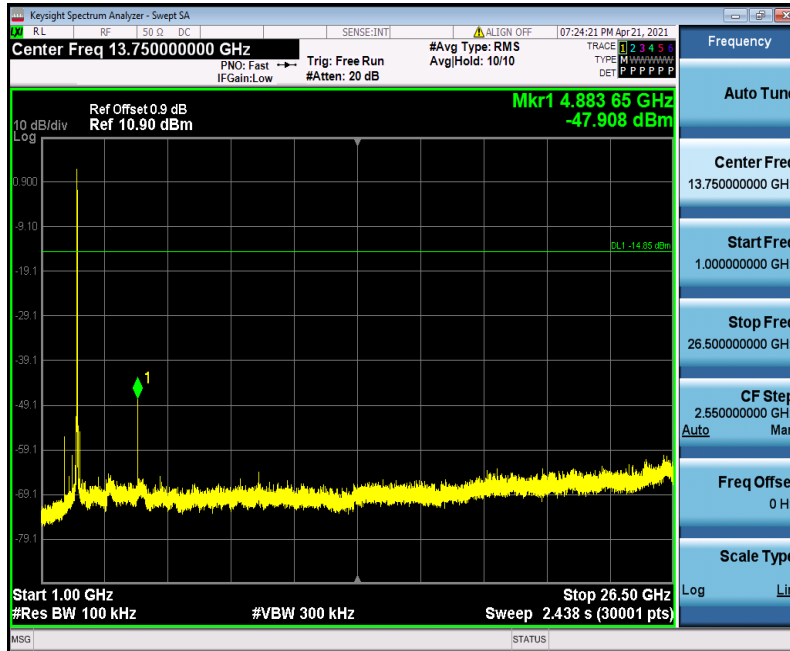


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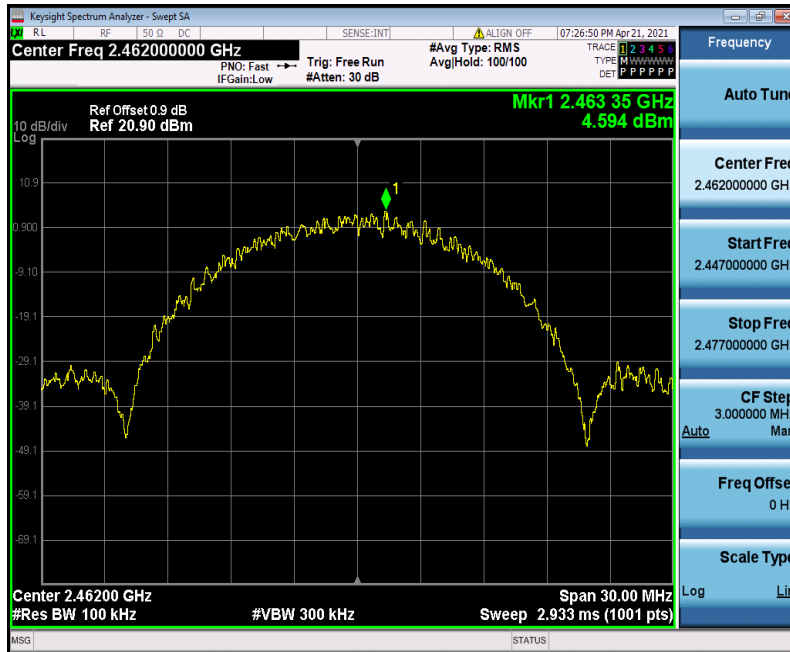


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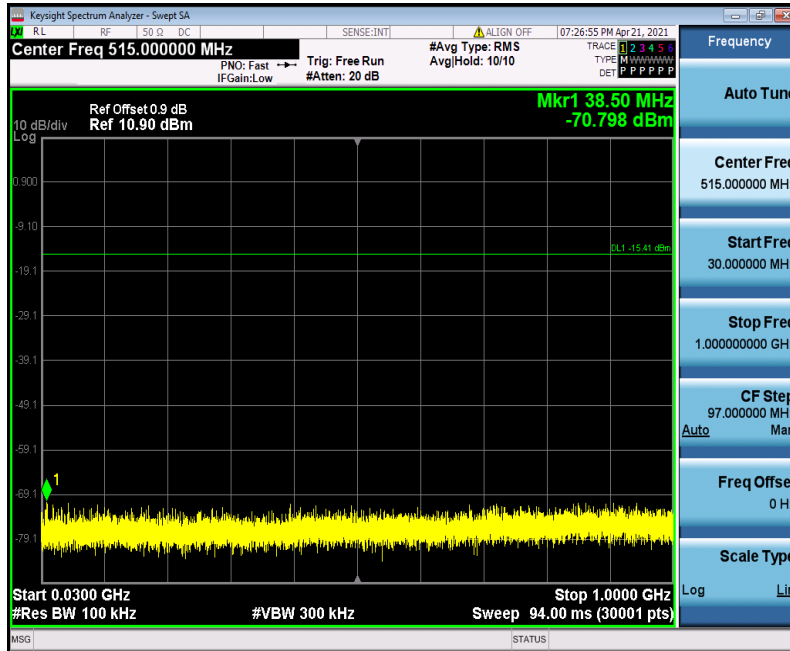


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11B_Ant1_2462_0-Reference

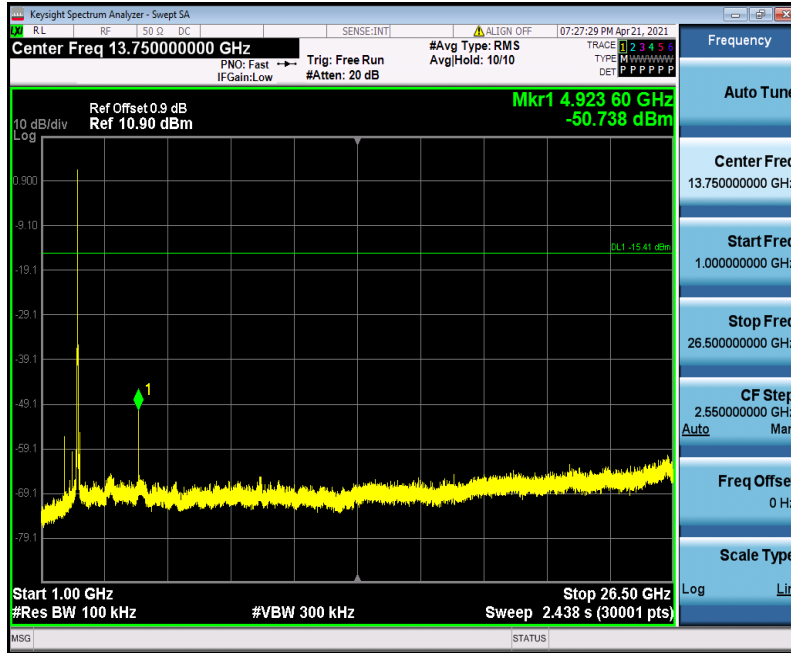


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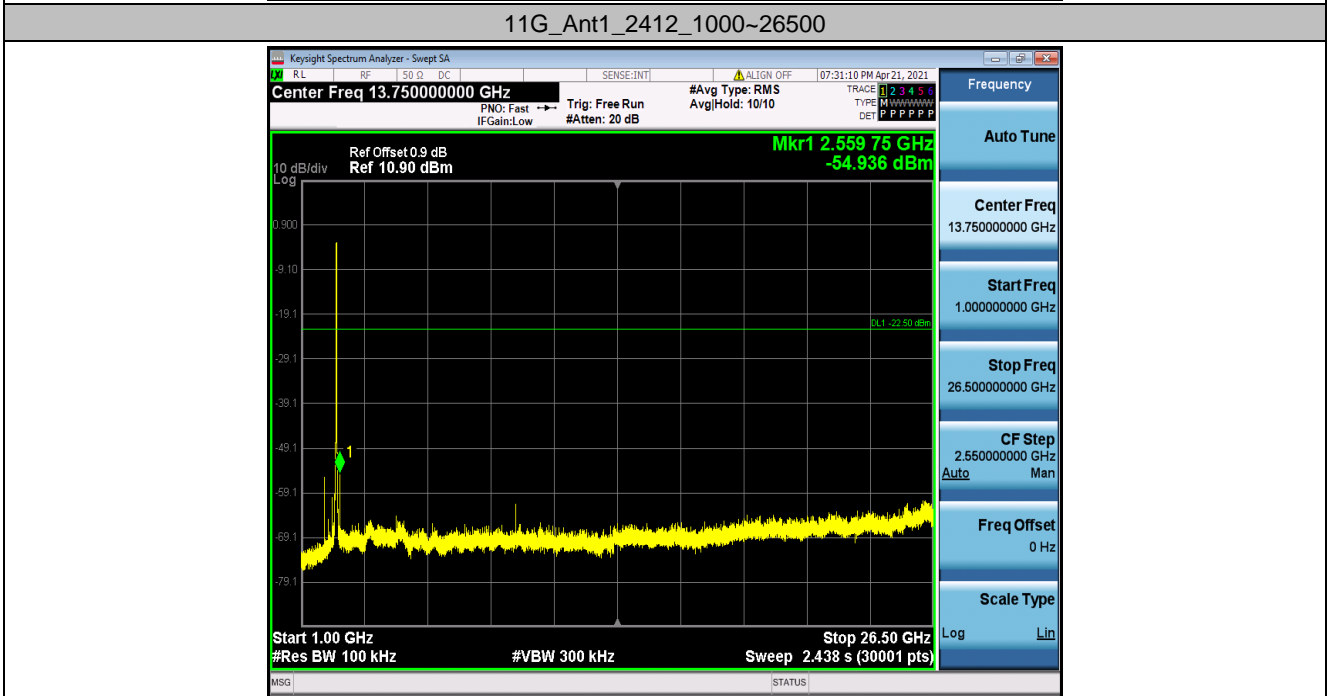
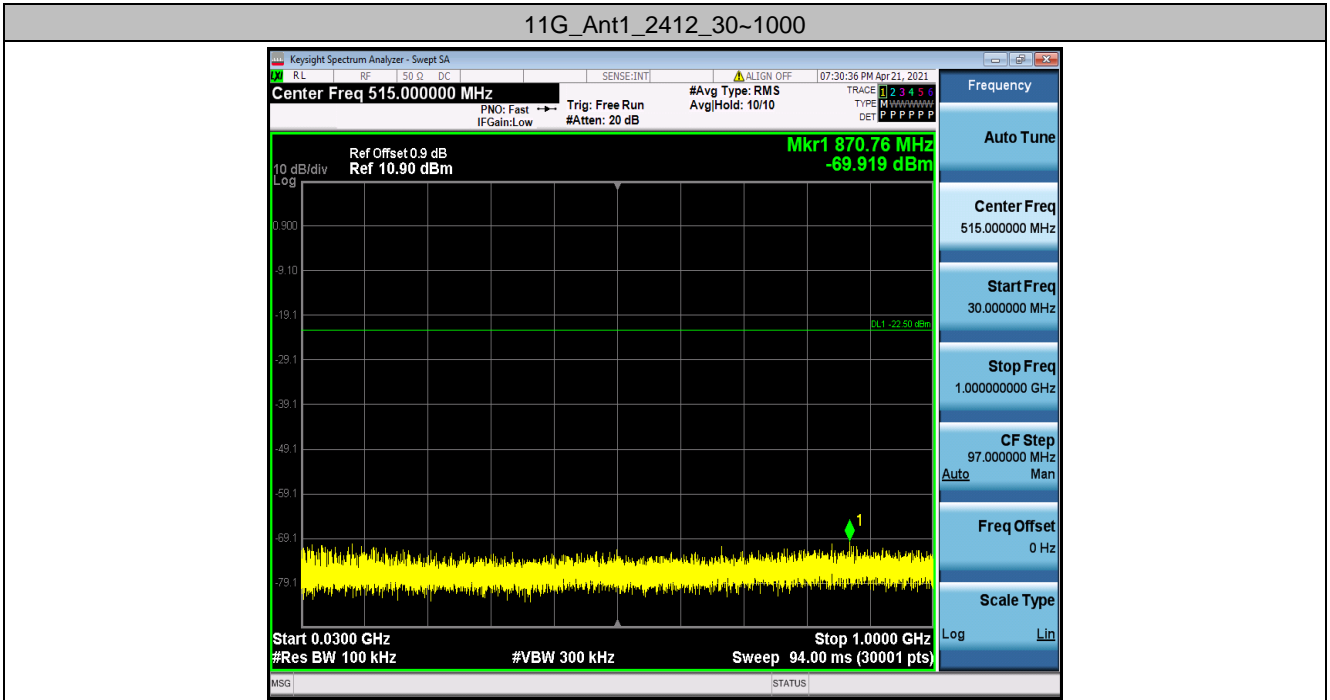
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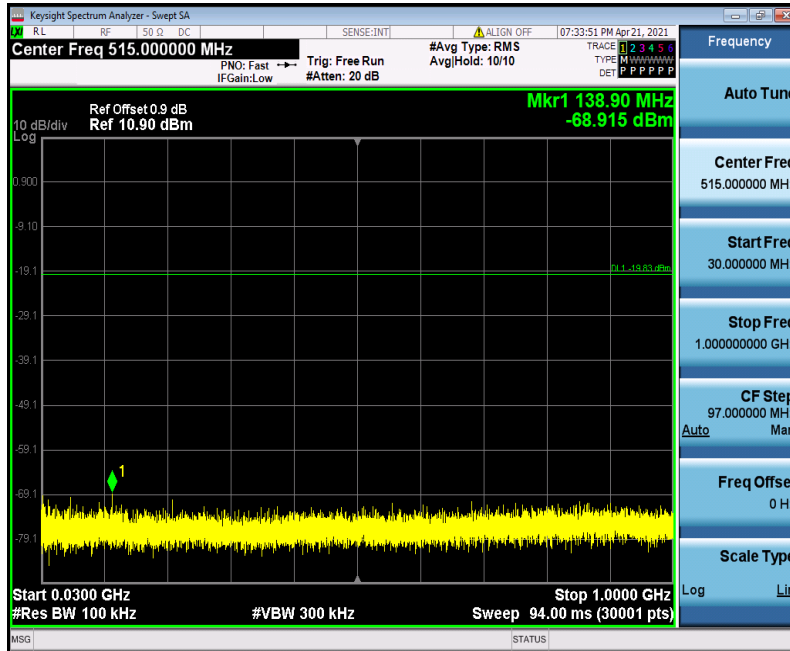
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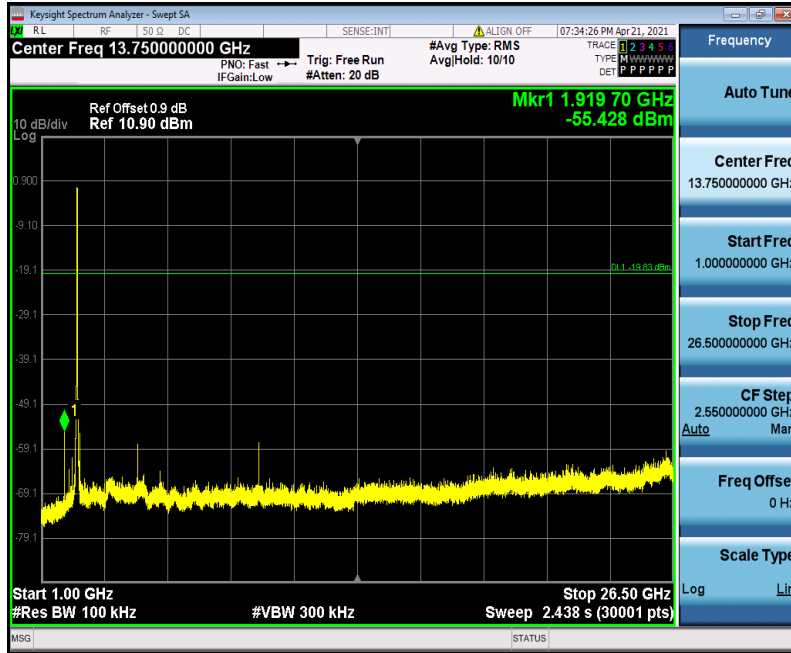


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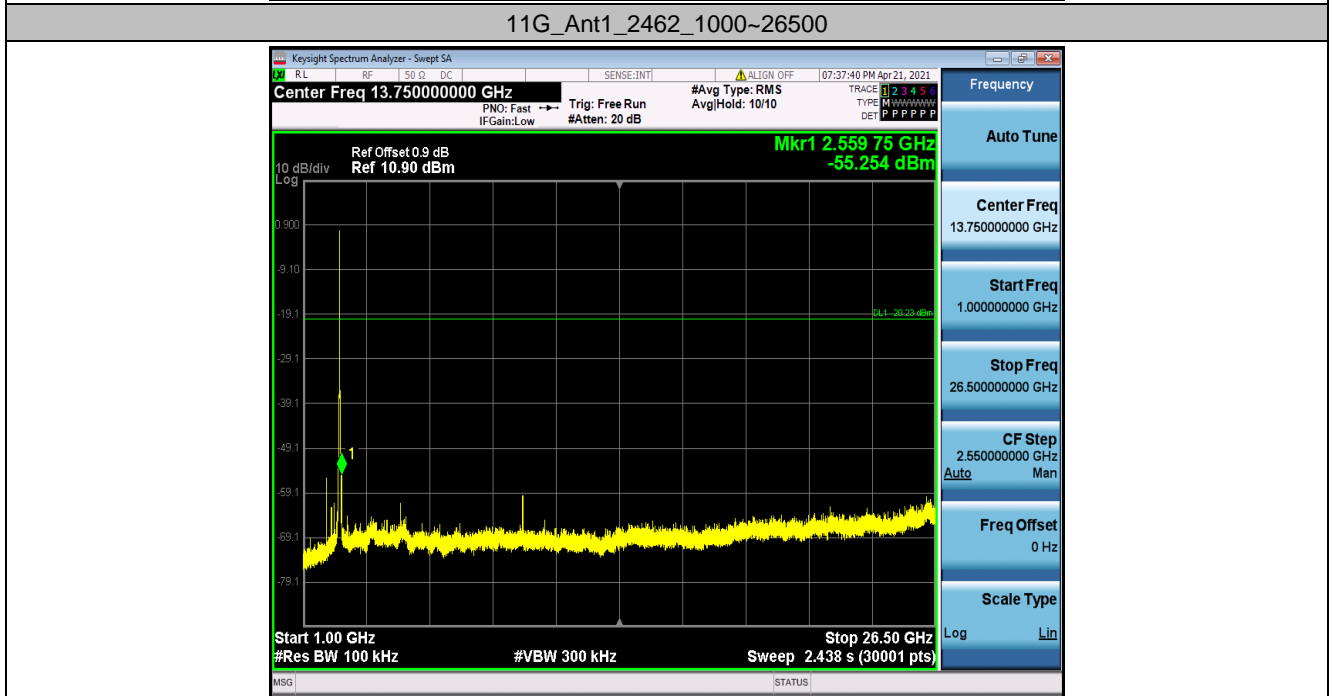
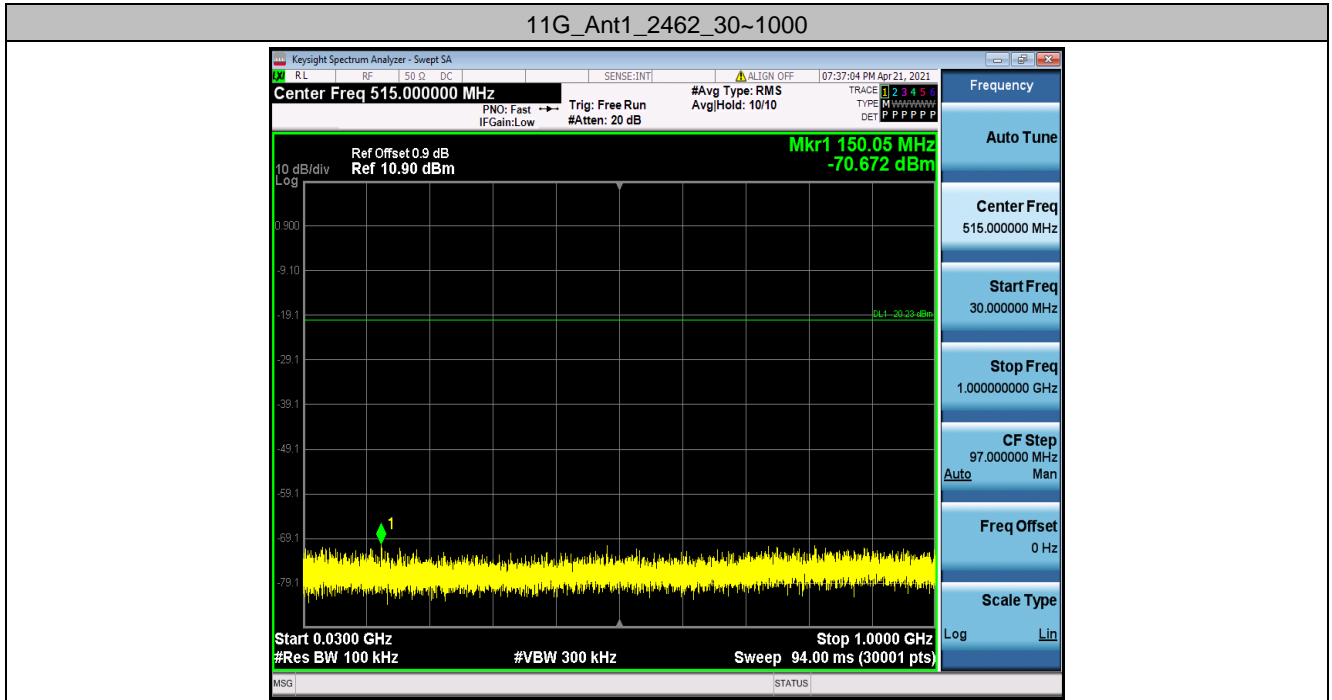
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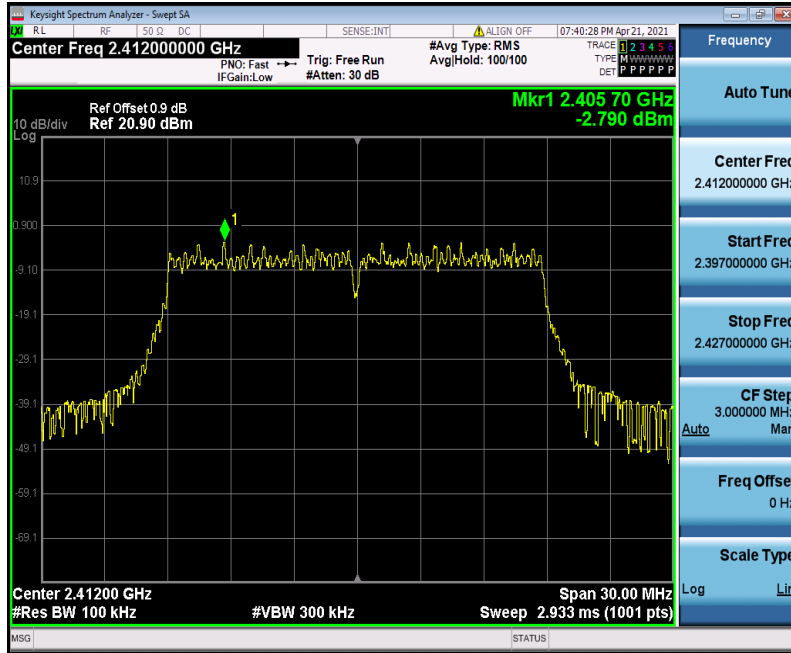


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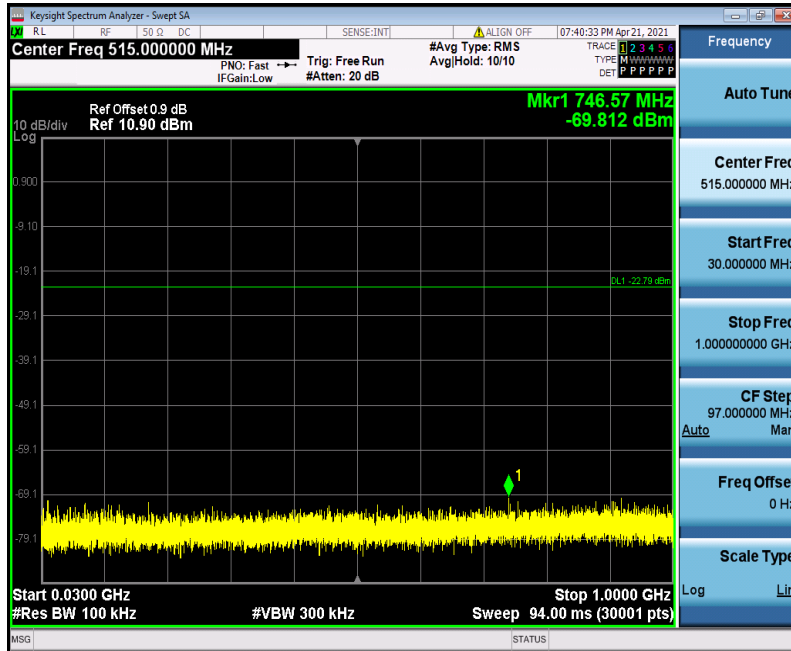


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11N20SISO_Ant1_2412_0~Reference

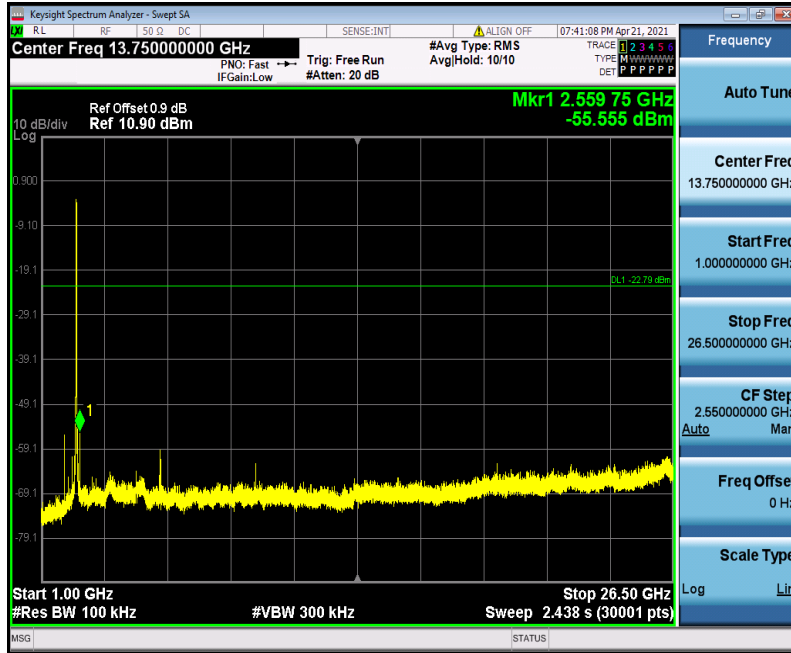


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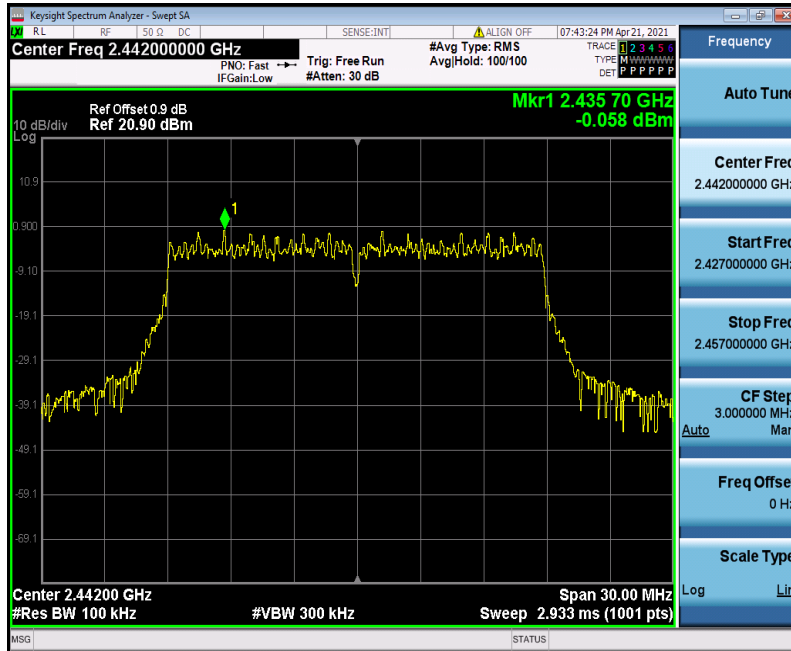


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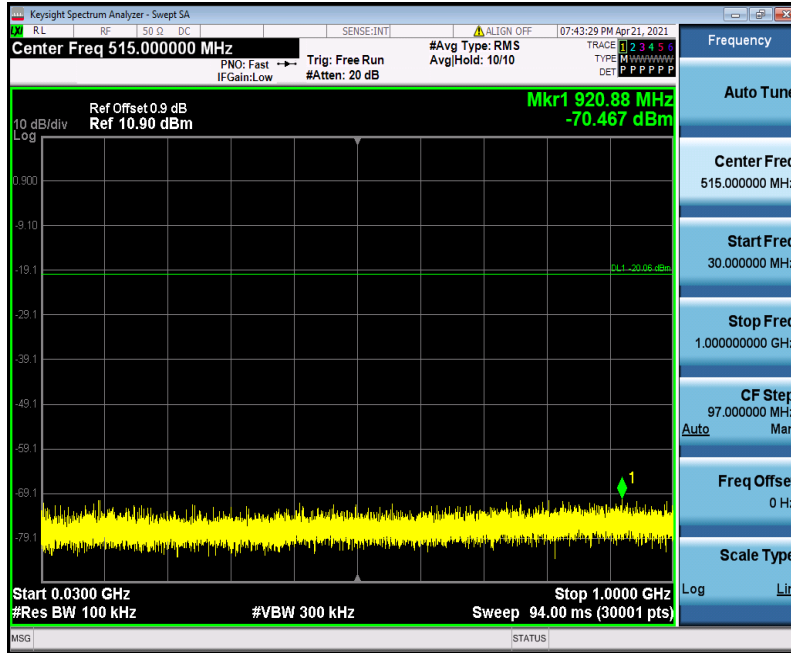


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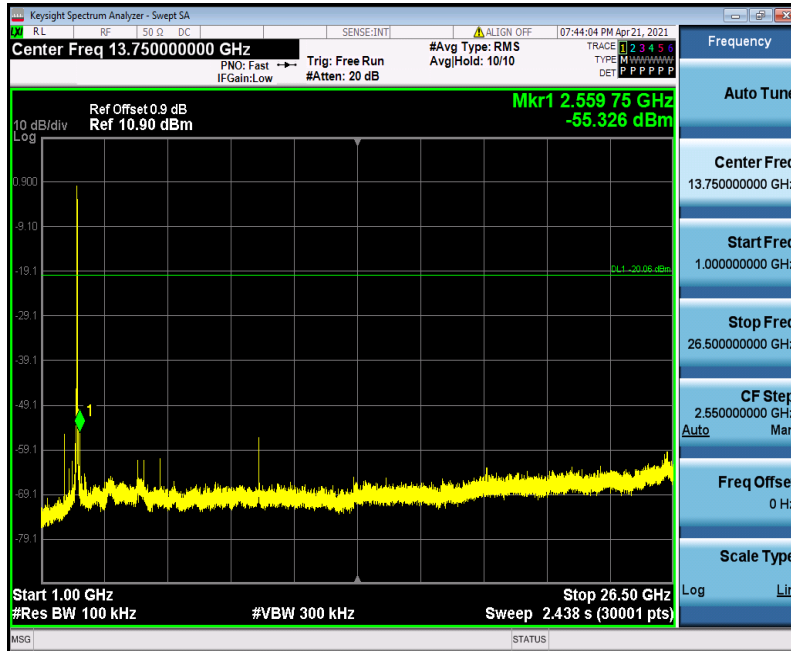


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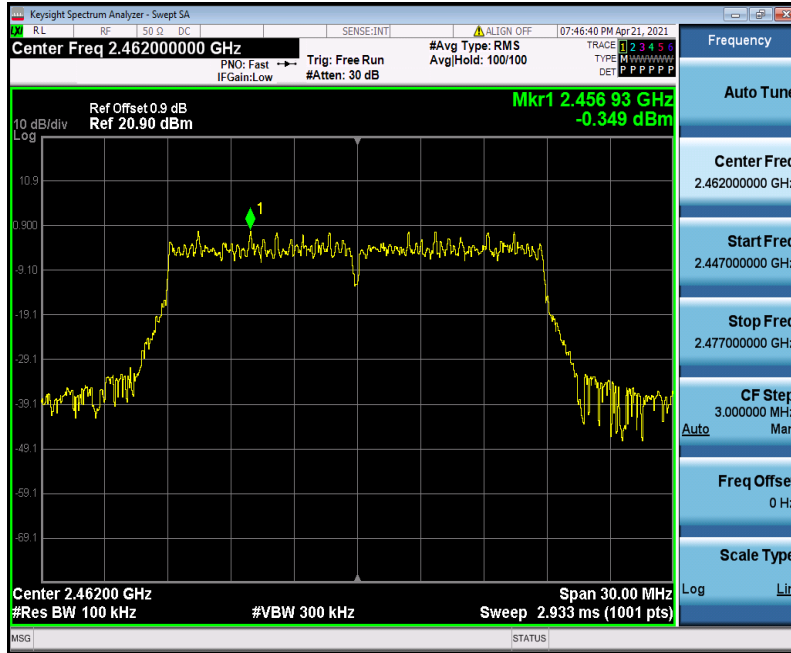


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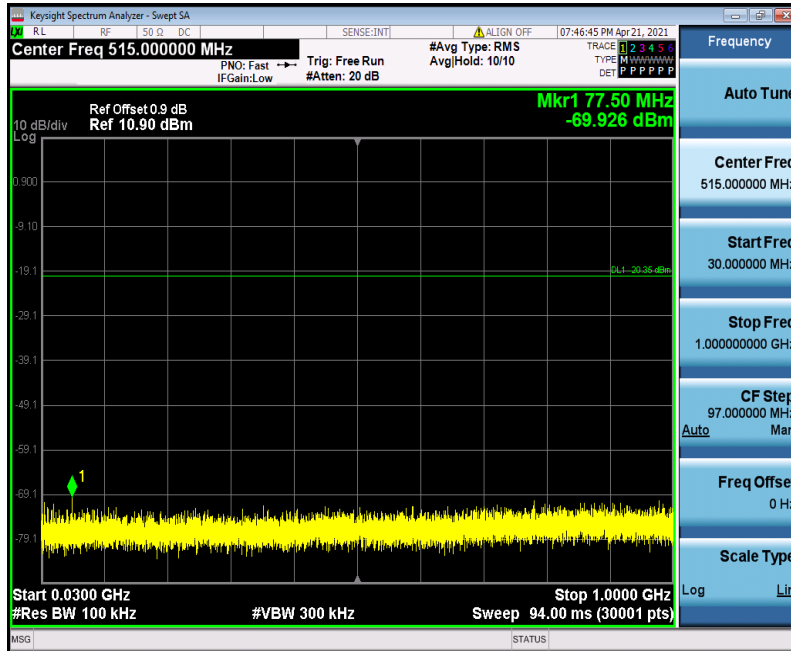


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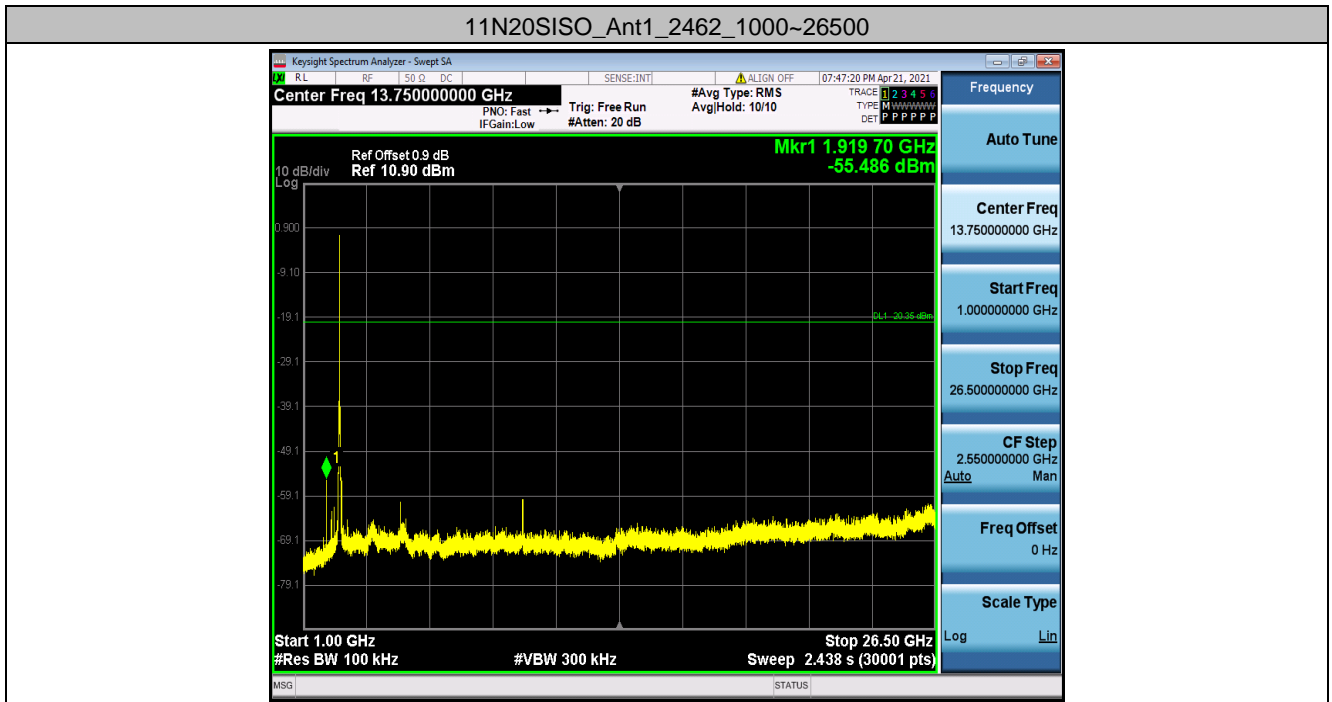


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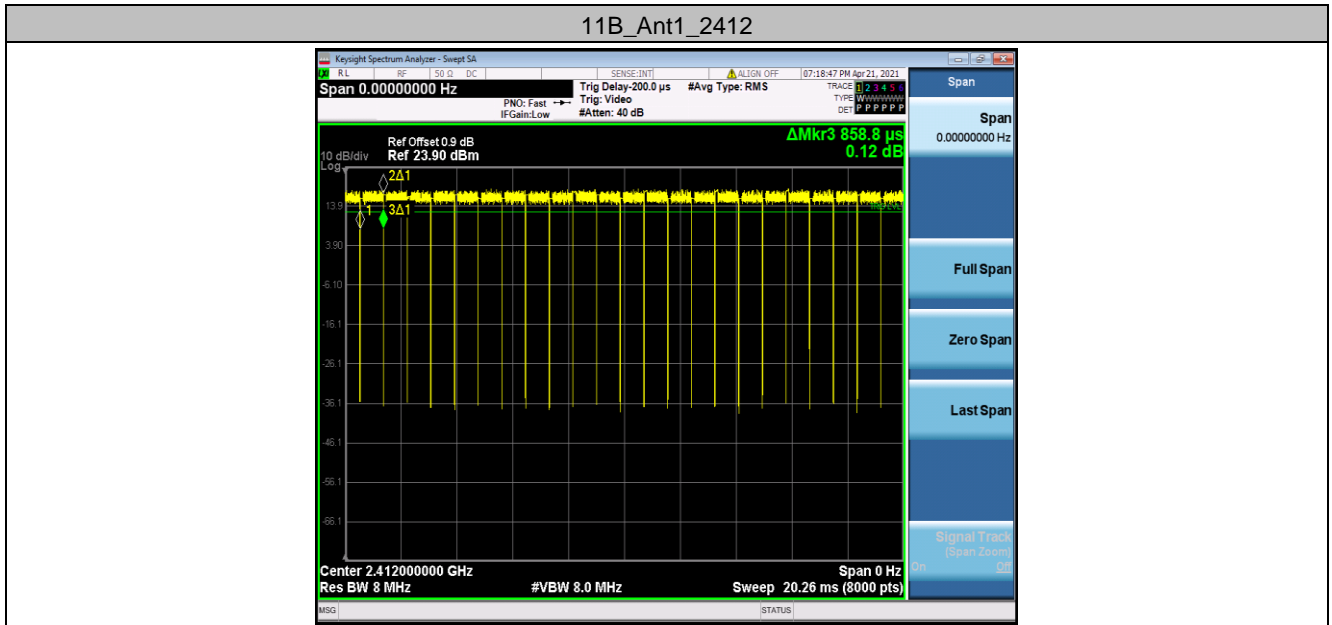
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8.6 Appendix G: Duty Cycle

8.6.1 Test Result

| TestMode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|-----------|---------|---------|----------------------------|--------------------------|----------------|
| 11B | Ant1 | 2412 | 0.84 | 0.86 | 97.35 |
| | | 2442 | 0.84 | 0.86 | 97.06 |
| | | 2462 | 0.84 | 0.86 | 97.35 |
| 11G | Ant1 | 2412 | 0.17 | 0.19 | 88.89 |
| | | 2442 | 0.17 | 0.19 | 89.54 |
| | | 2462 | 0.17 | 0.19 | 89.54 |
| 11N20SISO | Ant1 | 2412 | 0.54 | 0.56 | 96.39 |
| | | 2442 | 0.54 | 0.56 | 96.17 |
| | | 2462 | 0.54 | 0.56 | 96.40 |

8.6.2 Test Graphs

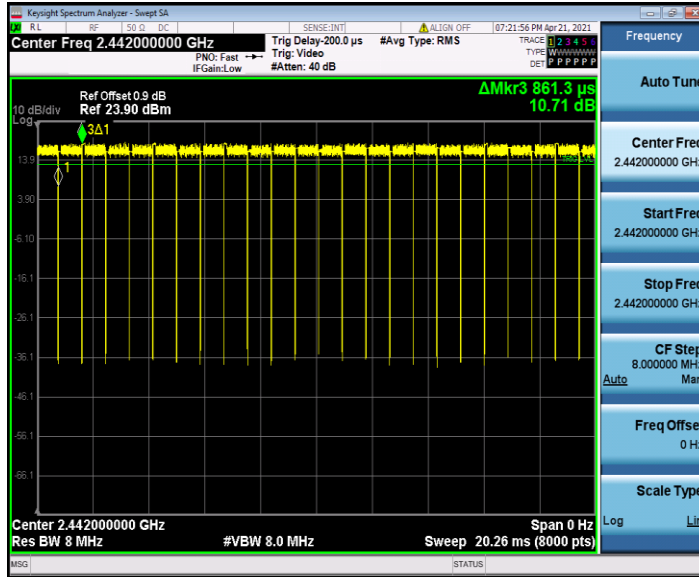


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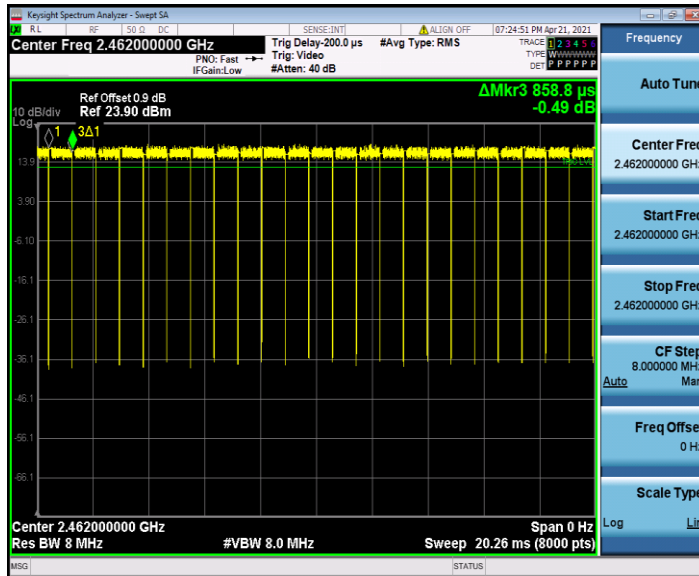
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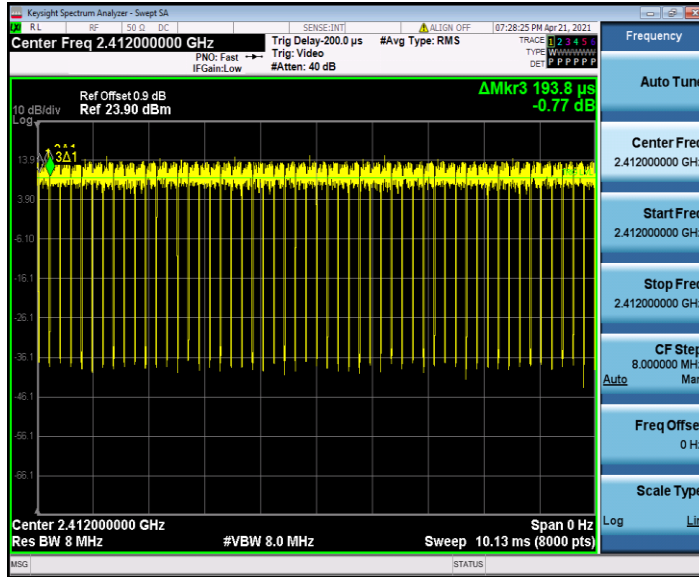
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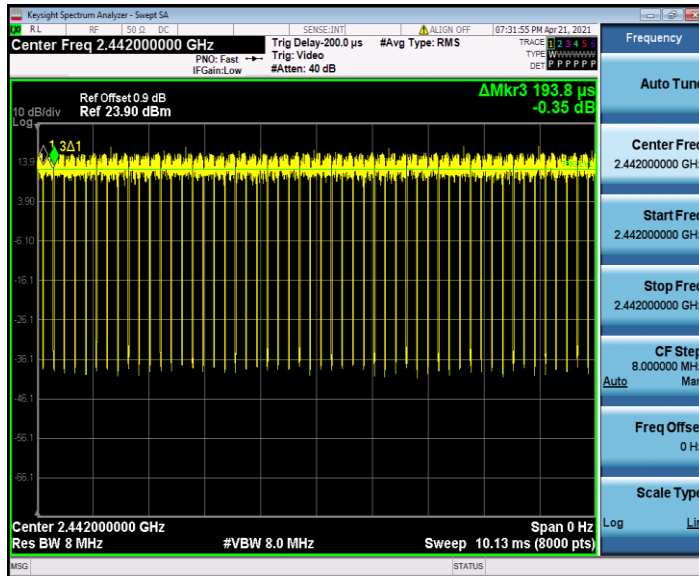
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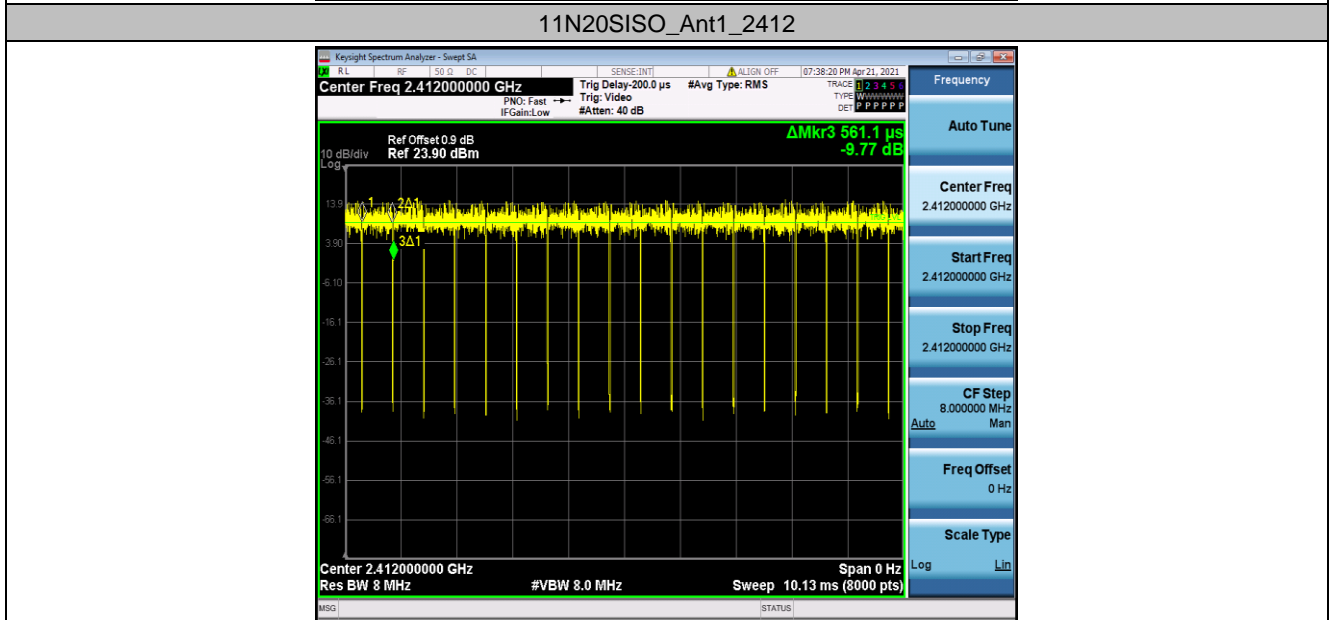
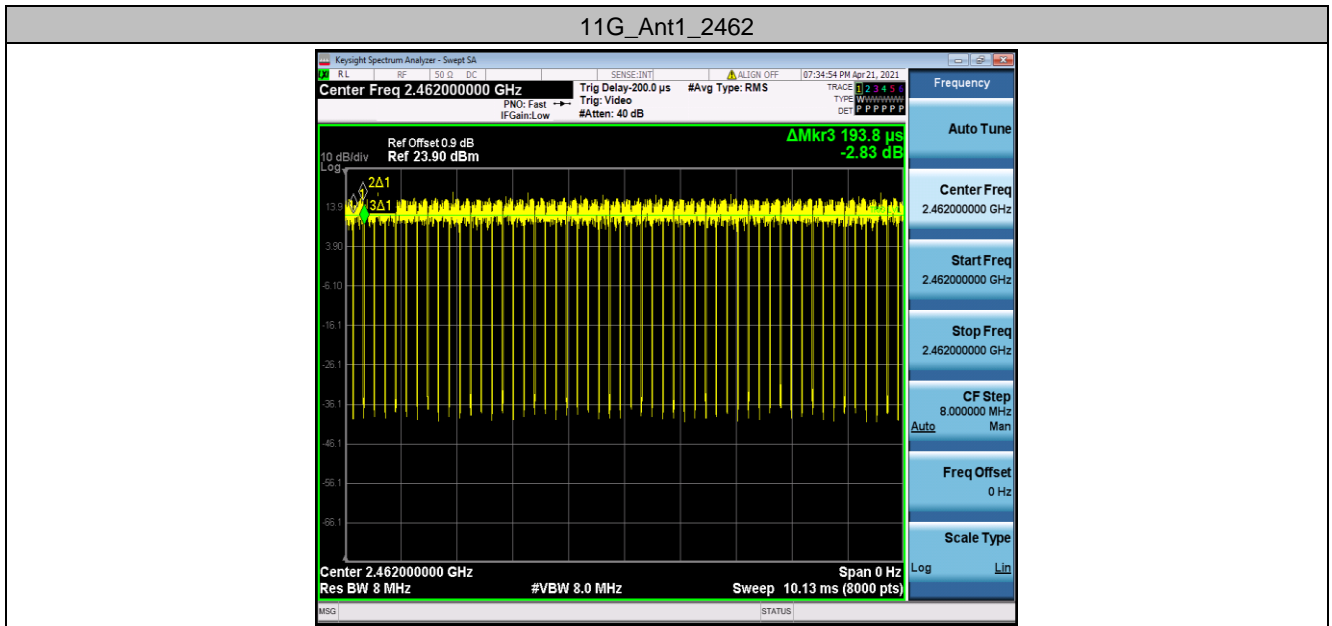
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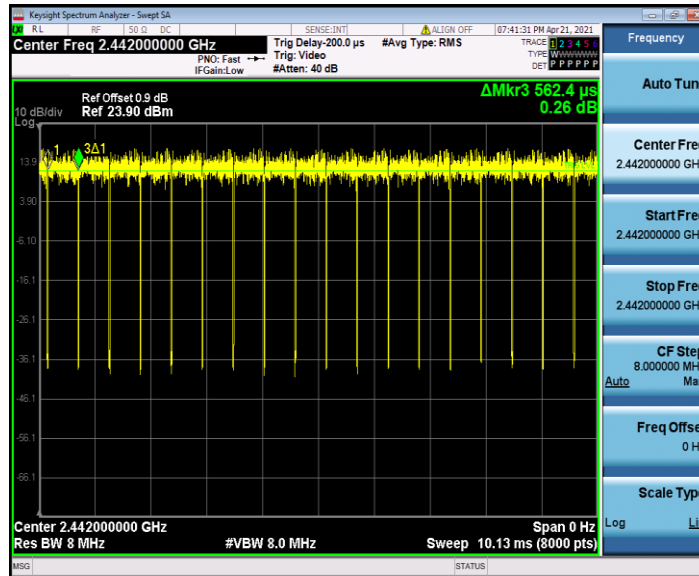


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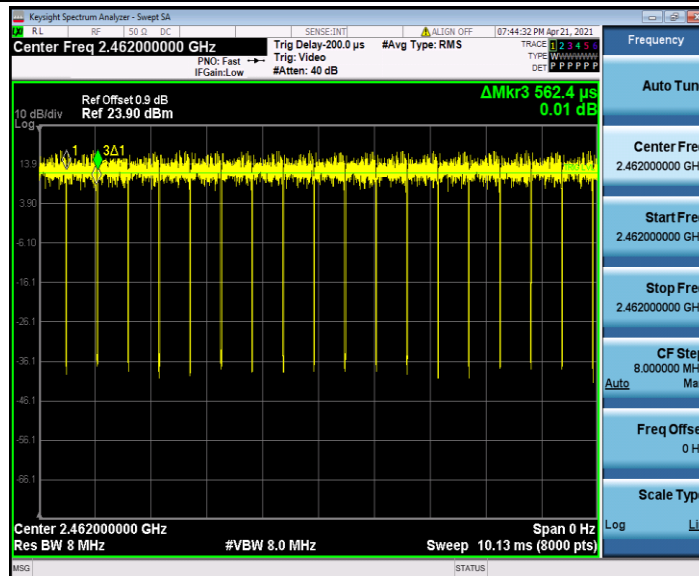
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