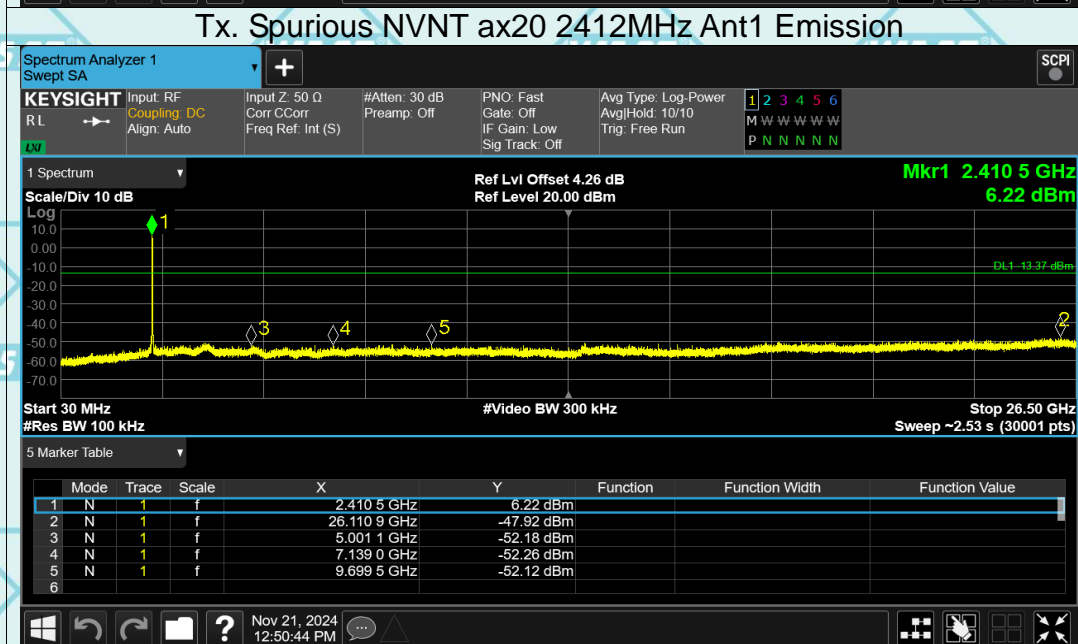
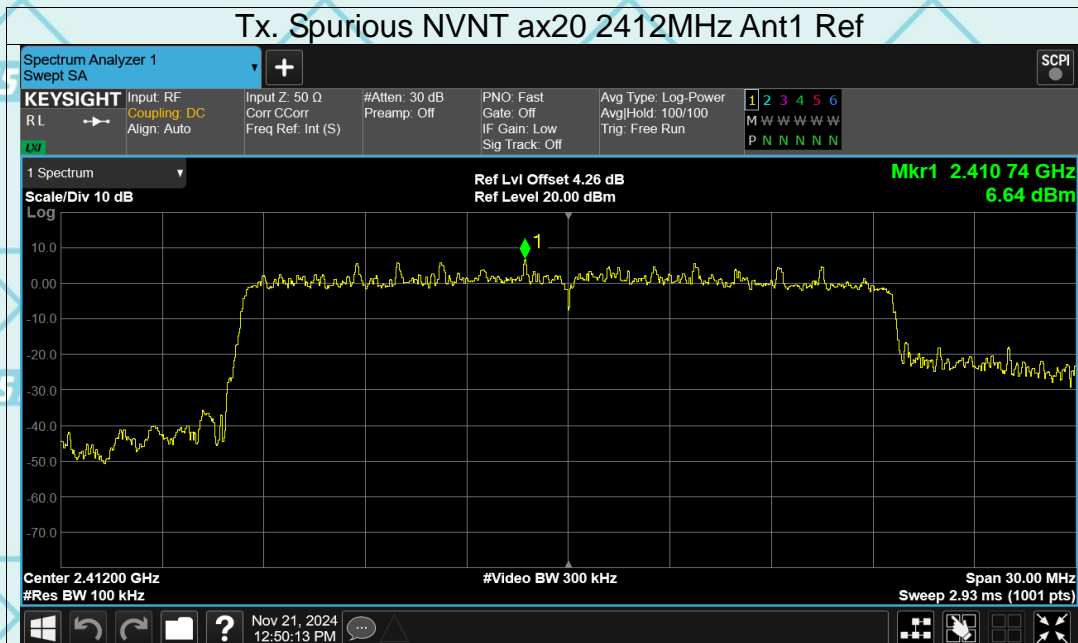
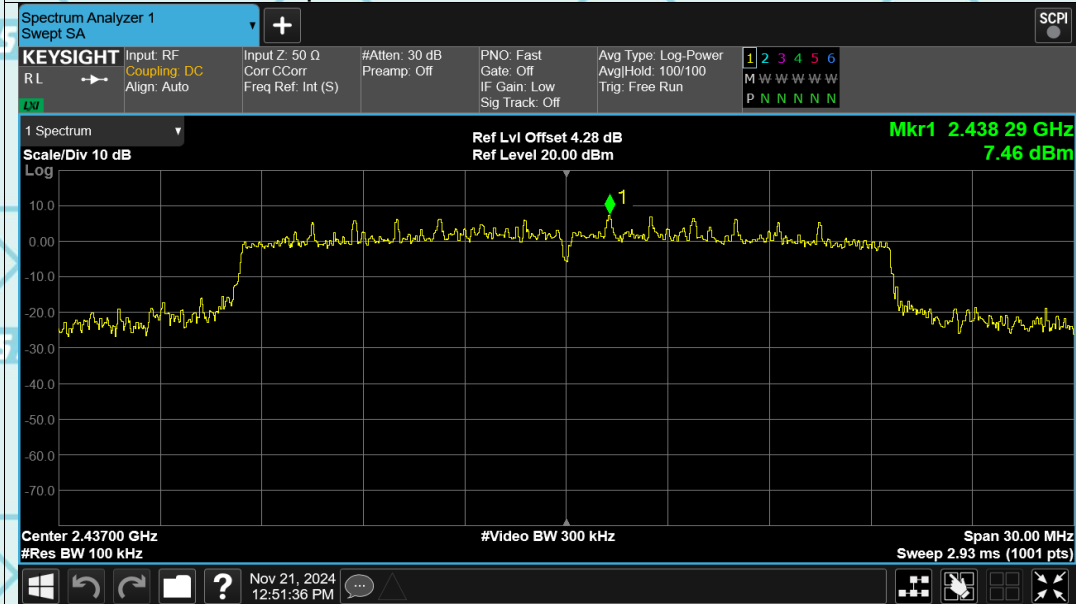


Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

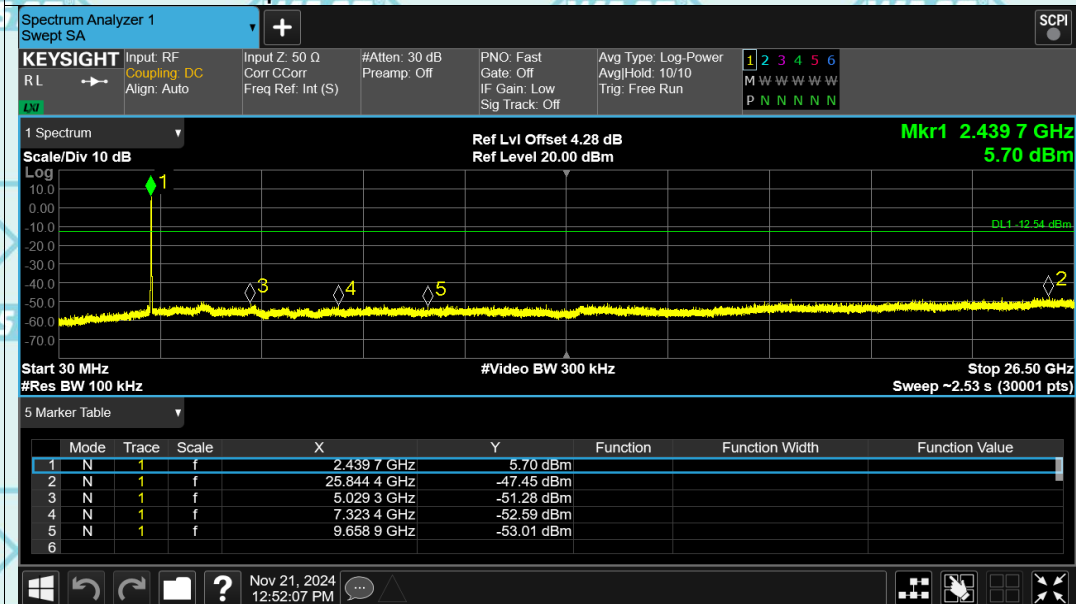


Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

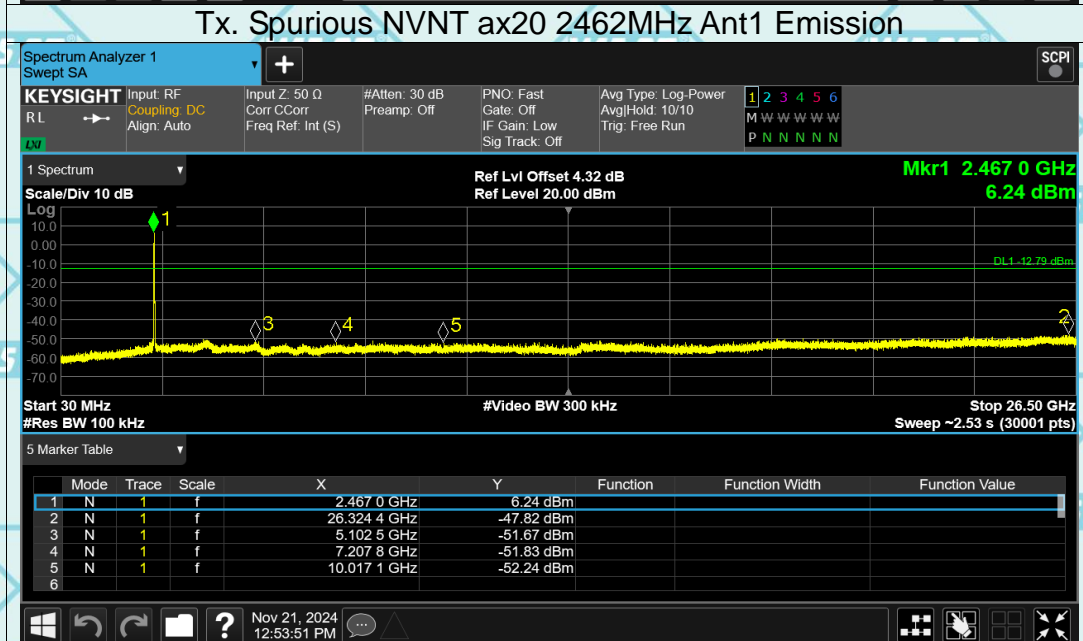
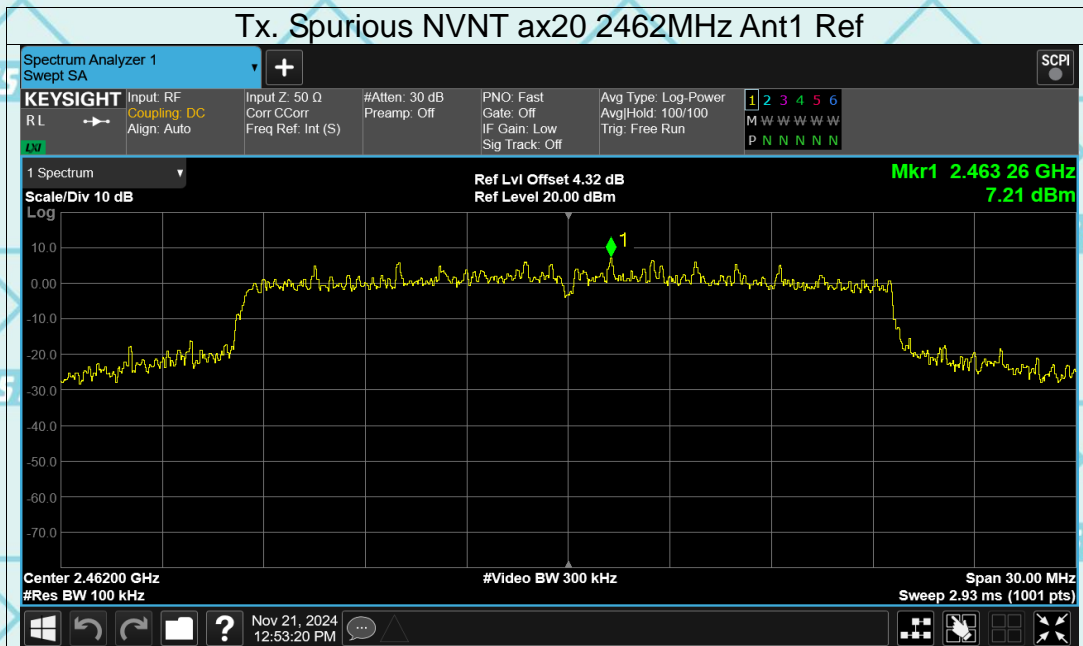
Tx. Spurious NVNT ax20 2437MHz Ant1 Ref



Tx. Spurious NVNT ax20 2437MHz Ant1 Emission

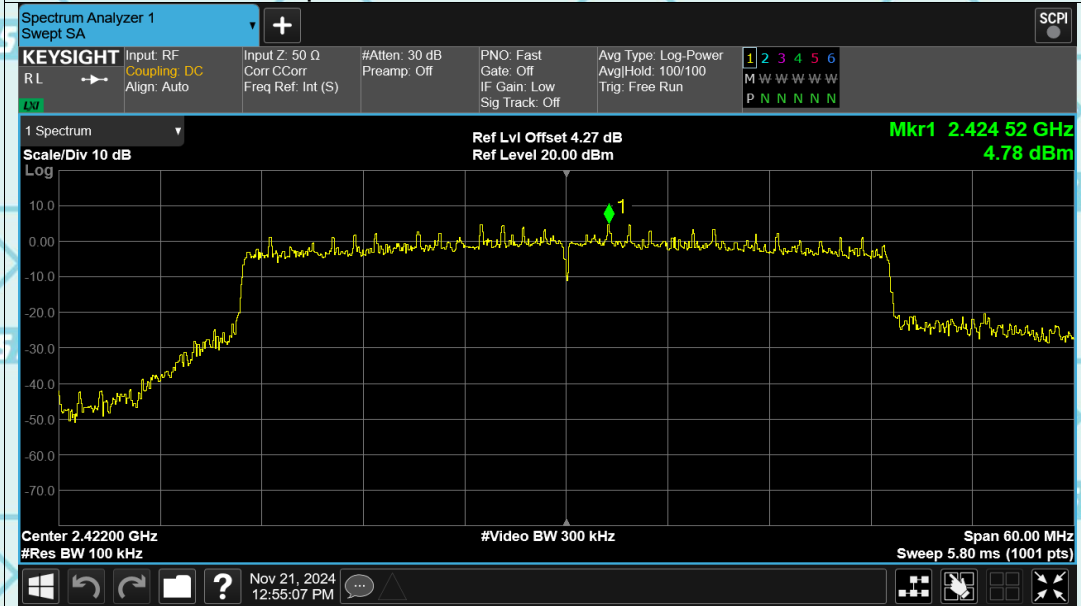


Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

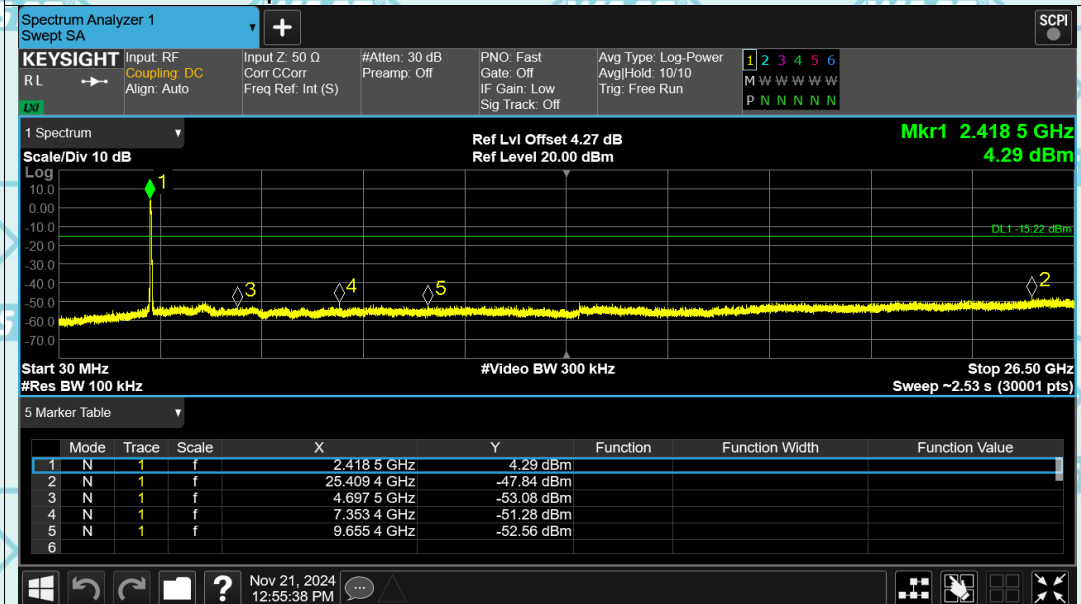


Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

Tx. Spurious NVNT ax40 2422MHz Ant1 Ref

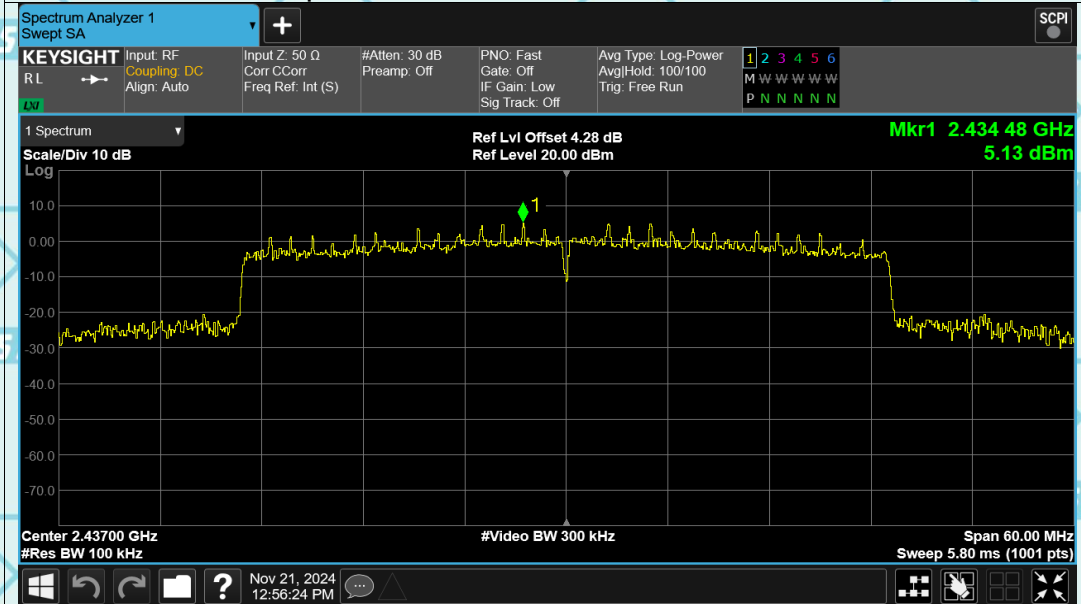


Tx. Spurious NVNT ax40 2422MHz Ant1 Emission

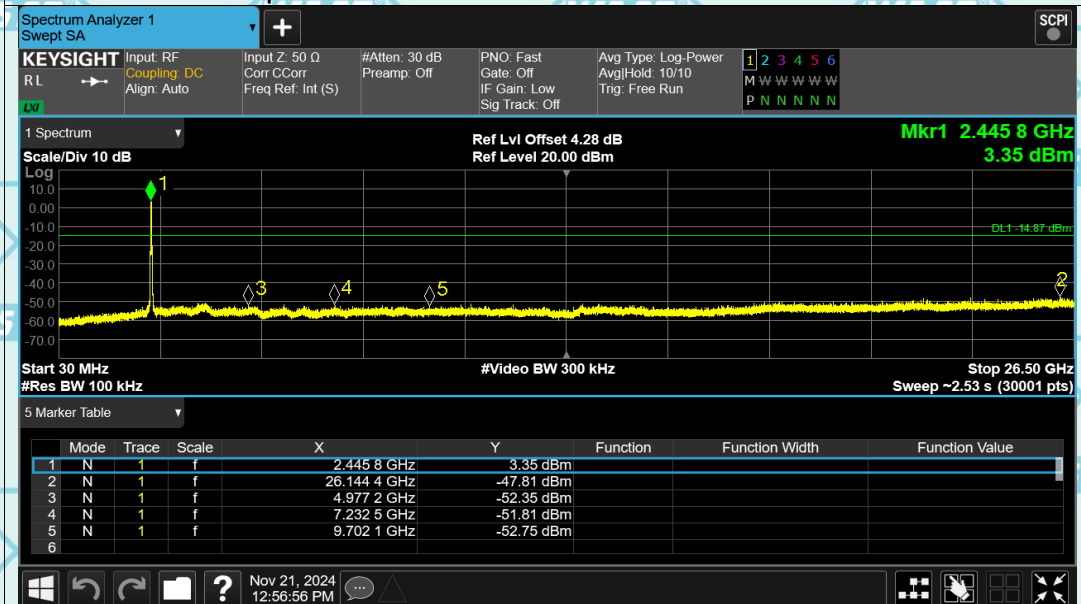


Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

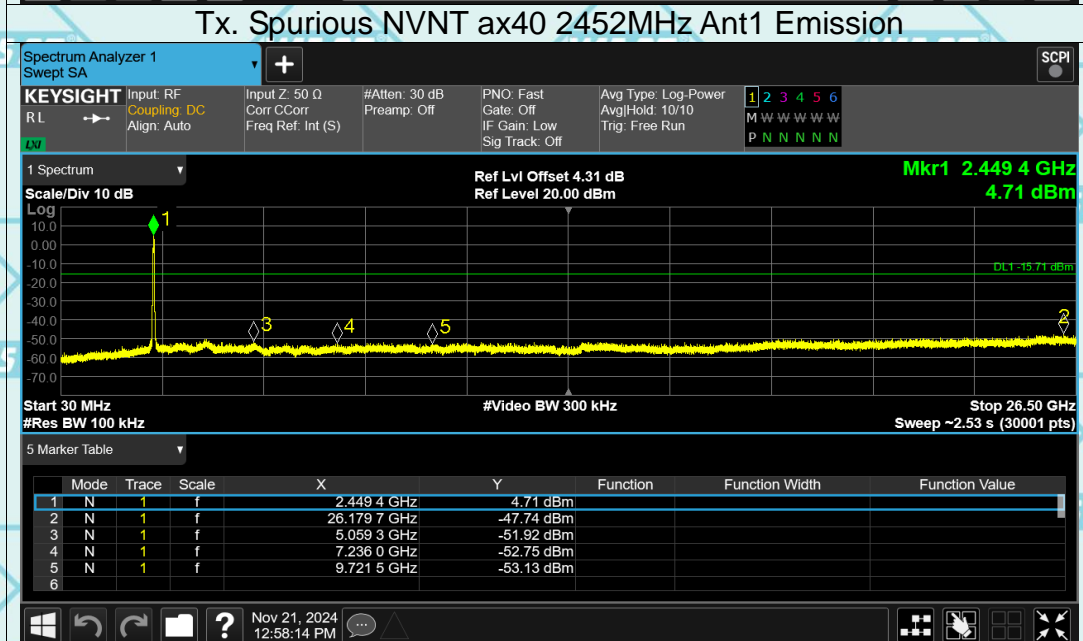
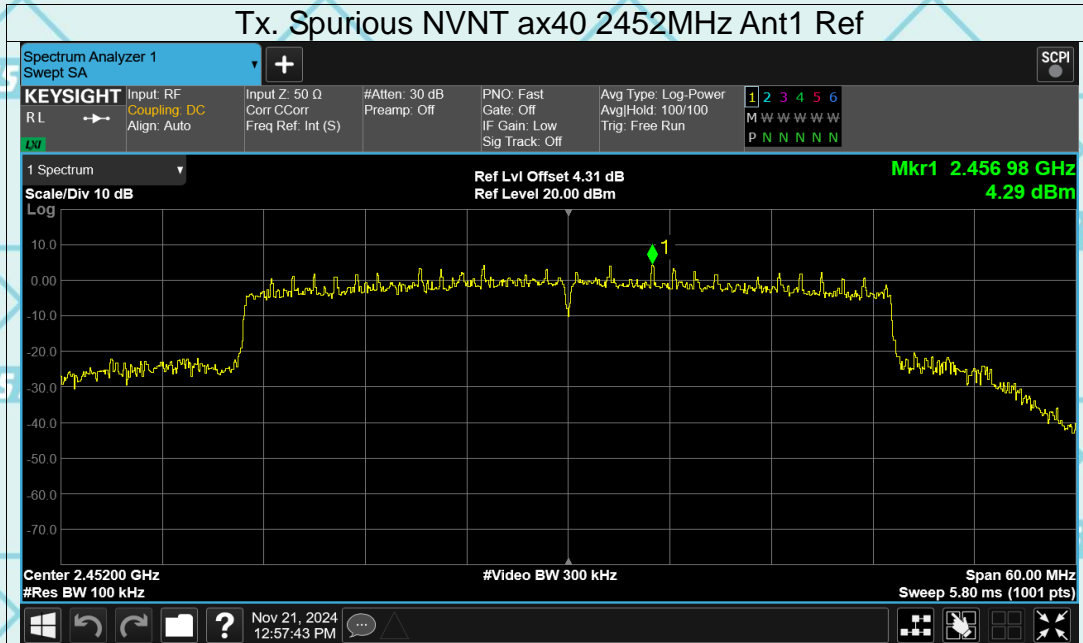
Tx. Spurious NVNT ax40 2437MHz Ant1 Ref



Tx. Spurious NVNT ax40 2437MHz Ant1 Emission

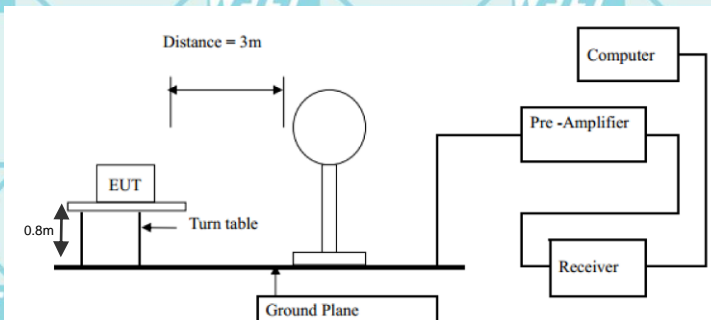


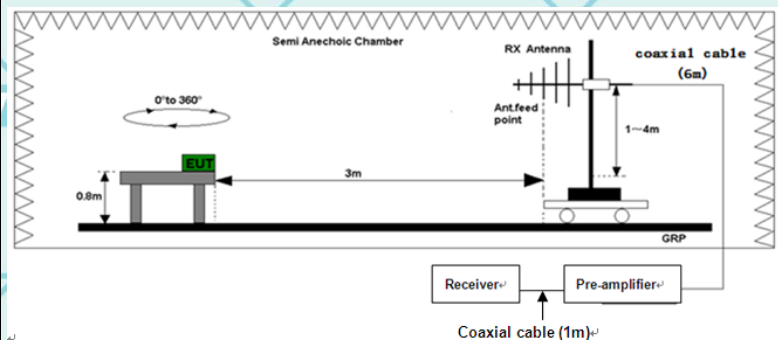
Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1



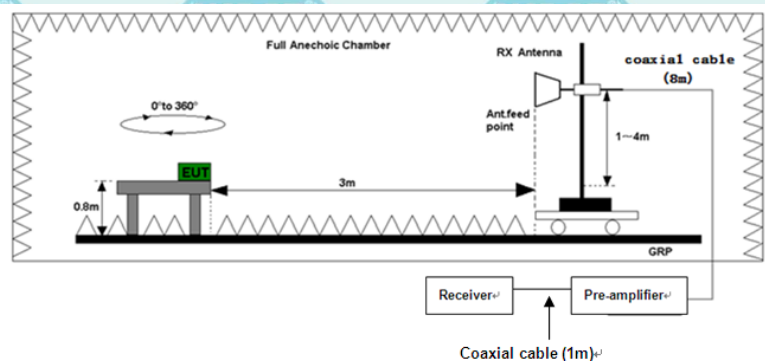
6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

| | | | | | |
|-----------------------|--|-----------------------------------|-------------------------------|-------------------------------|------------------|
| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
| Test Method: | ANSI C63.10: 2014 | | | | |
| Frequency Range: | 9 kHz to 25 GHz | | | | |
| Measurement Distance: | 3 m | | | | |
| Antenna Polarization: | Horizontal & Vertical | | | | |
| Operation mode: | Transmitting mode with modulation | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
| | 9kHz- 150kHz | Quasi-peak | 200Hz | 1kHz | Quasi-peak Value |
| | 150kHz- 30MHz | Quasi-peak | 9kHz | 30kHz | Quasi-peak Value |
| | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| Limit: | | Peak | 1MHz | 10Hz | Average Value |
| | Frequency | 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 | 30 | | 30 | |
| | 30-88 | 100 | | 3 | |
| | 88-216 | 150 | | 3 | |
| | 216-960 | 200 | | 3 | |
| | Above 960 | 500 | | 3 | |
| | Frequency | Field Strength (microvolts/meter) | Measurement Distance (meters) | Detector | |
| Above 1GHz | 500 | 3 | Average | | |
| | 5000 | 3 | Peak | | |
| Test setup: | For radiated emissions below 30MHz | | | | |
| |  | | | | |
| | 30MHz to 1GHz | | | | |



Above 1GHz



Test Procedure:

- For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

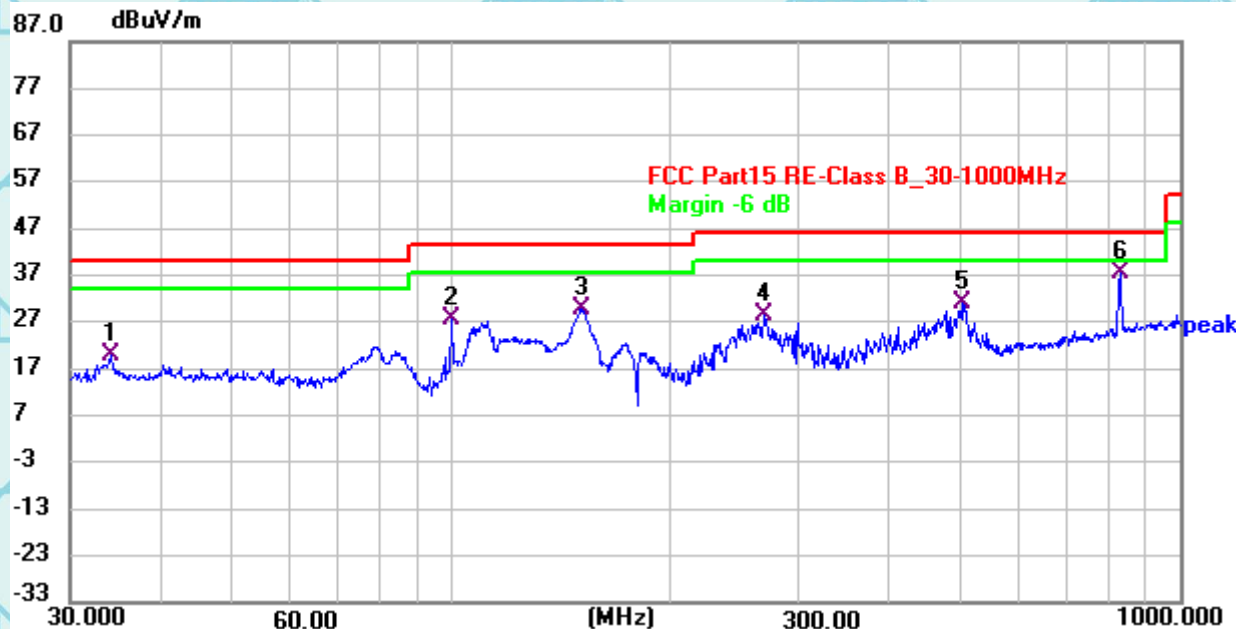
| | |
|---------------|--|
| | <p>3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level</p> <p>4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> <p>5. Use the following spectrum analyzer settings:</p> <p>(1) Span shall wide enough to fully capture the emission being measured;</p> <p>(2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;</p> <p>(3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.</p> <p>For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p> |
| Test results: | PASS |

6.7.2. Test Data(worst case)

Please refer to following diagram for individual
The worst mode is 11b

Below 1GHz

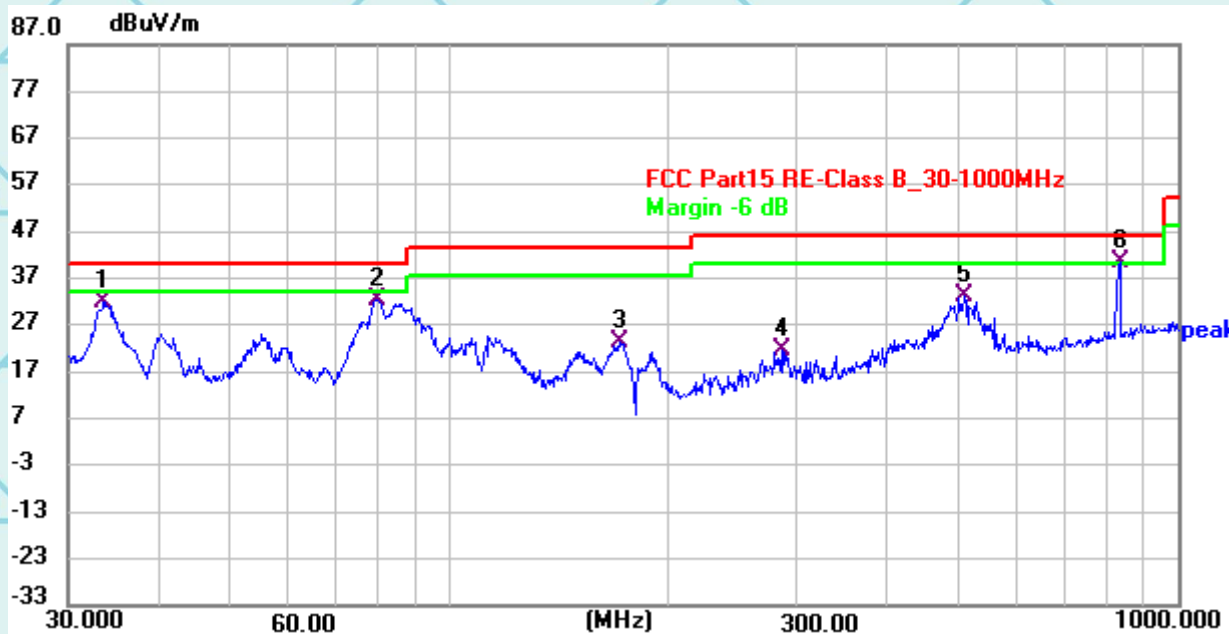
Horizontal:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 34.2160 | 39.64 | -19.50 | 20.14 | 40.00 | -19.86 | QP |
| 2 | 100.2725 | 51.18 | -23.62 | 27.56 | 43.50 | -15.94 | QP |
| 3 | 151.2652 | 49.26 | -19.49 | 29.77 | 43.50 | -13.73 | QP |
| 4 | 270.0195 | 49.73 | -21.40 | 28.33 | 46.00 | -17.67 | QP |
| 5 | 503.1600 | 46.70 | -15.42 | 31.28 | 46.00 | -14.72 | QP |
| 6 * | 828.9455 | 48.06 | -10.58 | 37.48 | 46.00 | -8.52 | QP |

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

Vertical:



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 33.6066 | 51.63 | -19.52 | 32.11 | 40.00 | -7.89 | QP |
| 2 | 79.5558 | 56.19 | -23.92 | 32.27 | 40.00 | -7.73 | QP |
| 3 | 171.8439 | 44.04 | -20.86 | 23.18 | 43.50 | -20.32 | QP |
| 4 | 286.8566 | 42.46 | -20.71 | 21.75 | 46.00 | -24.25 | QP |
| 5 | 511.8352 | 48.27 | -15.22 | 33.05 | 46.00 | -12.95 | QP |
| 6 * | 833.3171 | 51.04 | -10.55 | 40.49 | 46.00 | -5.51 | QP |

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

Above 1GHz

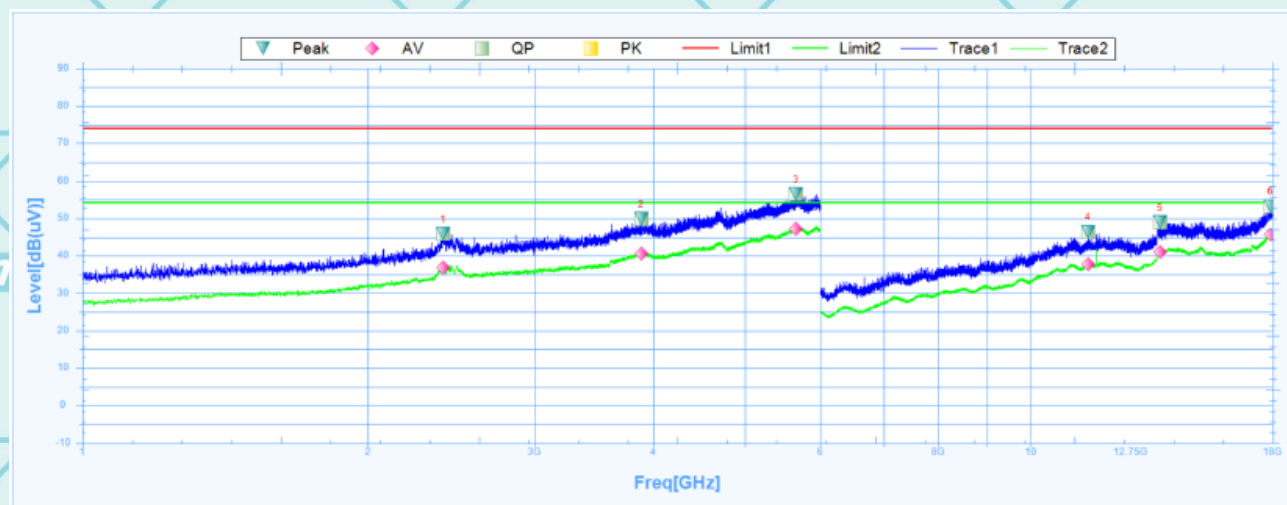
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: Report and only recorded the worst-case scenario "MIMO Mode 802.11b".

1 GHz to 18 GHz, MIMO Mode 802.11b Low Channel

Horizontal :

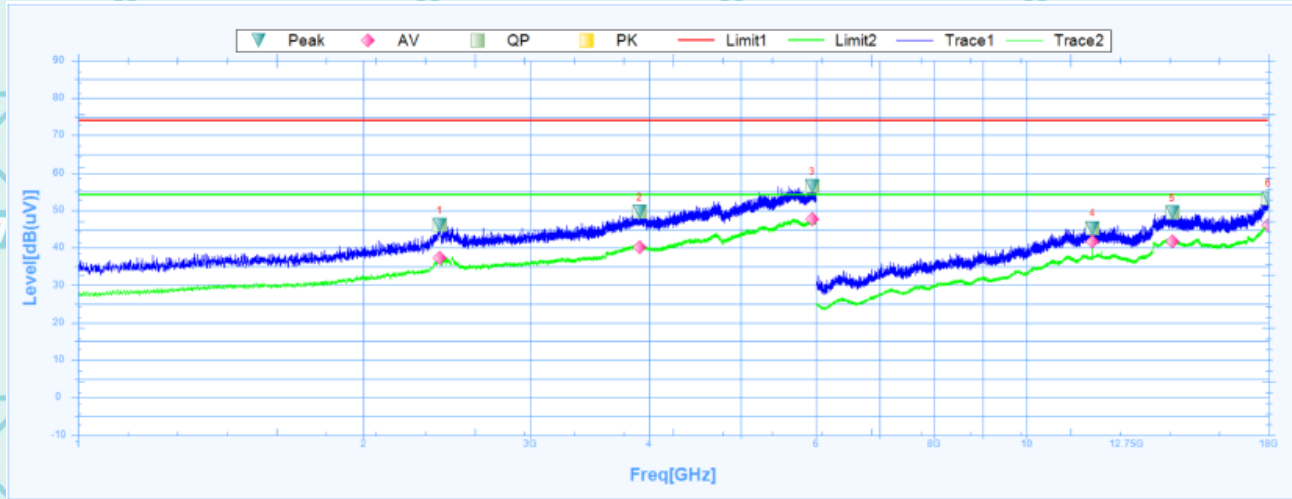


Suspected Data List

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|------------|-------|---------|
| 1 | 2401.2500 | 45.94 | 27.26 | 18.68 | 74 | -28.06 | 357.7 | Horizontal | PK | Pass |
| 1 | 2401.2500 | 36.82 | 27.26 | 9.56 | 54 | -17.18 | 357.7 | Horizontal | AV | Pass |
| 2 | 3883.7500 | 49.87 | 29.42 | 20.45 | 74 | -24.13 | 357 | Horizontal | PK | Pass |
| 2 | 3883.7500 | 40.51 | 29.42 | 11.09 | 54 | -13.49 | 357 | Horizontal | AV | Pass |
| 3 | 5659.3750 | 56.55 | 32.26 | 24.29 | 74 | -17.45 | 127.5 | Horizontal | PK | Pass |
| 3 | 5659.3750 | 47.19 | 32.26 | 14.93 | 54 | -6.81 | 127.5 | Horizontal | AV | Pass |
| 4 | 11497.5000 | 46.44 | 16.12 | 30.32 | 74 | -27.56 | 133.2 | Horizontal | PK | Pass |
| 4 | 11497.5000 | 37.63 | 16.12 | 21.51 | 54 | -16.37 | 133.2 | Horizontal | AV | Pass |
| 5 | 13690.5000 | 49.03 | 18.24 | 30.79 | 74 | -24.97 | 40 | Horizontal | PK | Pass |
| 5 | 13690.5000 | 40.99 | 18.24 | 22.75 | 54 | -13.01 | 40 | Horizontal | AV | Pass |
| 6 | 17908.5000 | 53.29 | 23.32 | 29.97 | 74 | -20.71 | 30.4 | Horizontal | PK | Pass |
| 6 | 17908.5000 | 45.7 | 23.32 | 22.38 | 54 | -8.3 | 30.4 | Horizontal | AV | Pass |

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

Vertical:



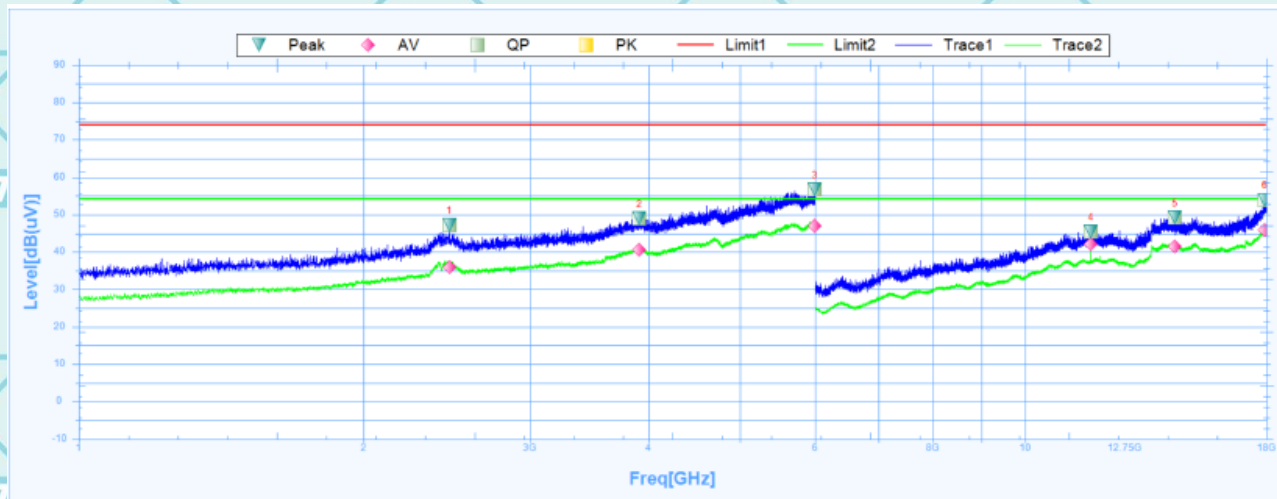
Susputed Data List

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|----------|-------|---------|
| 1 | 2405.6250 | 46.2 | 27.28 | 18.92 | 74 | -27.8 | 0 | Vertical | PK | Pass |
| 1 | 2405.6250 | 37.22 | 27.28 | 9.94 | 54 | -16.78 | 0 | Vertical | AV | Pass |
| 2 | 3910.0000 | 49.62 | 29.48 | 20.14 | 74 | -24.38 | 84.6 | Vertical | PK | Pass |
| 2 | 3910.0000 | 40.26 | 29.48 | 10.78 | 54 | -13.74 | 84.6 | Vertical | AV | Pass |
| 3 | 5944.3750 | 56.45 | 32.71 | 23.74 | 74 | -17.55 | 0 | Vertical | PK | Pass |
| 3 | 5944.3750 | 47.77 | 32.71 | 15.06 | 54 | -6.23 | 0 | Vertical | AV | Pass |
| 4 | 11745.0000 | 45.34 | 16.11 | 29.23 | 74 | -28.66 | 305.4 | Vertical | PK | Pass |
| 4 | 11745.0000 | 41.81 | 16.11 | 25.7 | 54 | -12.19 | 305.4 | Vertical | AV | Pass |
| 5 | 14247.0000 | 49.47 | 18.87 | 30.6 | 74 | -24.53 | 50.7 | Vertical | PK | Pass |
| 5 | 14247.0000 | 41.73 | 18.87 | 22.86 | 54 | -12.27 | 50.7 | Vertical | AV | Pass |
| 6 | 17983.5000 | 53.3 | 23.81 | 29.49 | 74 | -20.7 | 41.1 | Vertical | PK | Pass |
| 6 | 17983.5000 | 46.16 | 23.81 | 22.35 | 54 | -7.84 | 41.1 | Vertical | AV | Pass |

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

1 GHz to 18 GHz, MIMO Mode 802.11b Middle Channel

Horizontal :

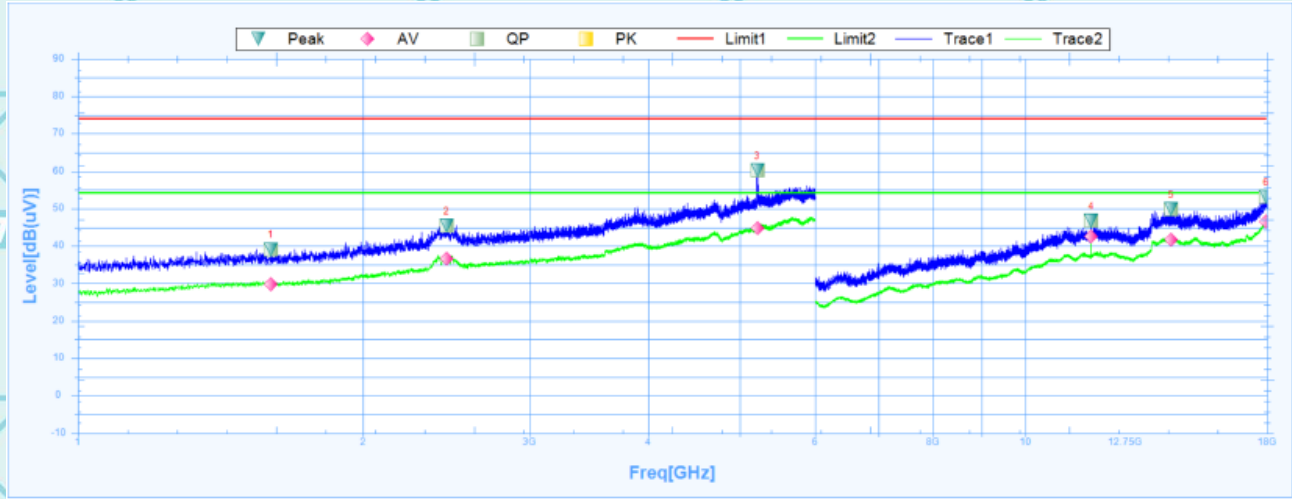


Susputed Data List

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|------------|-------|---------|
| 1 | 2463.7500 | 47.31 | 27.48 | 19.83 | 74 | -26.69 | 220.9 | Horizontal | PK | Pass |
| 1 | 2463.7500 | 35.88 | 27.48 | 8.4 | 54 | -18.12 | 220.9 | Horizontal | AV | Pass |
| 2 | 3913.7500 | 48.91 | 29.49 | 19.42 | 74 | -25.09 | 234 | Horizontal | PK | Pass |
| 2 | 3913.7500 | 40.59 | 29.49 | 11.1 | 54 | -13.41 | 234 | Horizontal | AV | Pass |
| 3 | 5999.3750 | 56.62 | 32.8 | 23.82 | 74 | -17.38 | 199.3 | Horizontal | PK | Pass |
| 3 | 5999.3750 | 46.97 | 32.8 | 14.17 | 54 | -7.03 | 199.3 | Horizontal | AV | Pass |
| 4 | 11745.0000 | 45.47 | 16.11 | 29.36 | 74 | -28.53 | 41.2 | Horizontal | PK | Pass |
| 4 | 11745.0000 | 42.19 | 16.11 | 26.08 | 54 | -11.81 | 41.2 | Horizontal | AV | Pass |
| 5 | 14407.5000 | 49.3 | 18.71 | 30.59 | 74 | -24.7 | 116.5 | Horizontal | PK | Pass |
| 5 | 14407.5000 | 41.59 | 18.71 | 22.88 | 54 | -12.41 | 116.5 | Horizontal | AV | Pass |
| 6 | 17925.0000 | 53.96 | 23.42 | 30.54 | 74 | -20.04 | 176.2 | Horizontal | PK | Pass |
| 6 | 17925.0000 | 45.86 | 23.42 | 22.44 | 54 | -8.14 | 176.2 | Horizontal | AV | Pass |

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

Vertical:



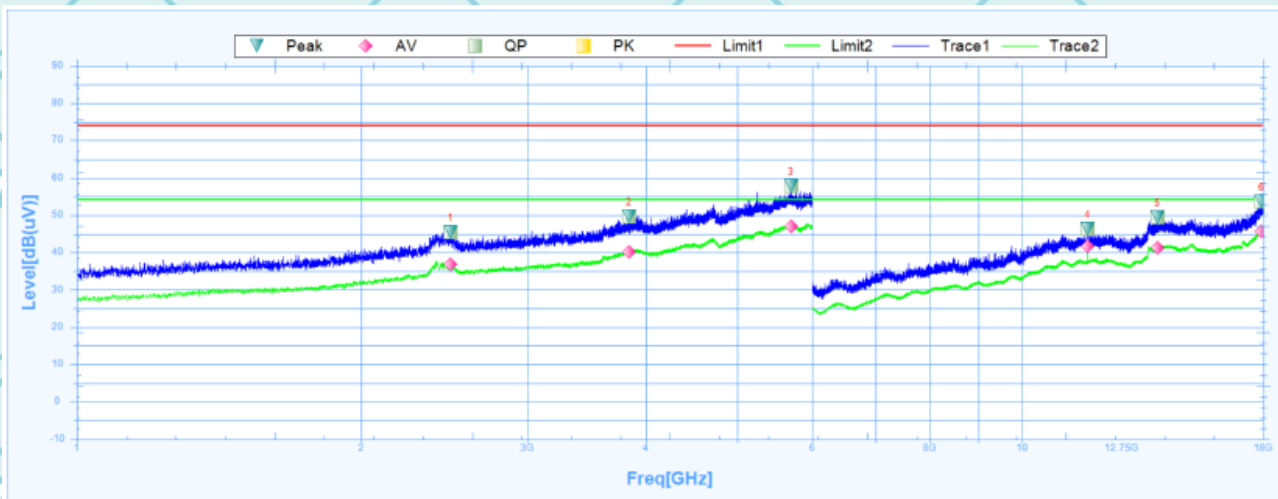
Suspected Data List

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|----------|-------|---------|
| 1 | 1597.5000 | 39.15 | 24.9 | 14.25 | 74 | -34.85 | 292.6 | Vertical | PK | Pass |
| 1 | 1597.5000 | 29.71 | 24.9 | 4.81 | 54 | -24.29 | 292.6 | Vertical | AV | Pass |
| 2 | 2450.6250 | 45.51 | 27.43 | 18.08 | 74 | -28.49 | 156.3 | Vertical | PK | Pass |
| 2 | 2450.6250 | 36.64 | 27.43 | 9.21 | 54 | -17.36 | 156.3 | Vertical | AV | Pass |
| 3 | 5215.0000 | 60.18 | 31.77 | 28.41 | 74 | -13.82 | -0.1 | Vertical | PK | Pass |
| 3 | 5215.0000 | 44.7 | 31.77 | 12.93 | 54 | -9.3 | -0.1 | Vertical | AV | Pass |
| 4 | 11745.0000 | 46.77 | 16.11 | 30.66 | 74 | -27.23 | 57.9 | Vertical | PK | Pass |
| 4 | 11745.0000 | 42.52 | 16.11 | 26.41 | 54 | -11.48 | 57.9 | Vertical | AV | Pass |
| 5 | 14260.5000 | 49.9 | 18.86 | 31.04 | 74 | -24.1 | 355.2 | Vertical | PK | Pass |
| 5 | 14260.5000 | 41.7 | 18.86 | 22.84 | 54 | -12.3 | 355.2 | Vertical | AV | Pass |
| 6 | 17961.0000 | 53.1 | 23.65 | 29.45 | 74 | -20.9 | 251.6 | Vertical | PK | Pass |
| 6 | 17961.0000 | 46.46 | 23.65 | 22.81 | 54 | -7.54 | 251.6 | Vertical | AV | Pass |

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

1 GHz to 18 GHz, MIMO Mode 802.11b High Channel

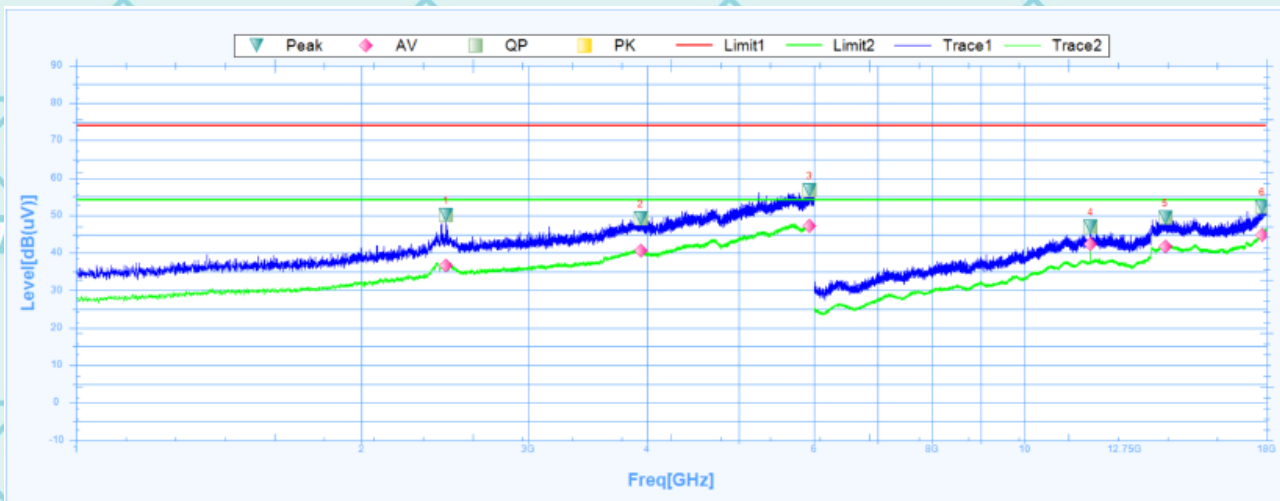
Horizontal :



Susputed Data List

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|------------|-------|---------|
| 1 | 2484.3750 | 45.42 | 27.55 | 17.87 | 74 | -28.58 | 313 | Horizontal | PK | Pass |
| 1 | 2484.3750 | 36.86 | 27.55 | 9.31 | 54 | -17.14 | 313 | Horizontal | AV | Pass |
| 2 | 3840.6250 | 49.73 | 29.32 | 20.41 | 74 | -24.27 | 188.6 | Horizontal | PK | Pass |
| 2 | 3840.6250 | 40.26 | 29.32 | 10.94 | 54 | -13.74 | 188.6 | Horizontal | AV | Pass |
| 3 | 5698.7500 | 57.73 | 32.32 | 25.41 | 74 | -16.27 | 327.3 | Horizontal | PK | Pass |
| 3 | 5698.7500 | 46.96 | 32.32 | 14.64 | 54 | -7.04 | 327.3 | Horizontal | AV | Pass |
| 4 | 11745.0000 | 46.31 | 16.11 | 30.2 | 74 | -27.69 | 163.1 | Horizontal | PK | Pass |
| 4 | 11745.0000 | 41.74 | 16.11 | 25.63 | 54 | -12.26 | 163.1 | Horizontal | AV | Pass |
| 5 | 13917.0000 | 49.5 | 18.87 | 30.63 | 74 | -24.5 | 160.7 | Horizontal | PK | Pass |
| 5 | 13917.0000 | 41.31 | 18.87 | 22.44 | 54 | -12.69 | 160.7 | Horizontal | AV | Pass |
| 6 | 17929.5000 | 53.62 | 23.45 | 30.17 | 74 | -20.38 | 0.5 | Horizontal | PK | Pass |
| 6 | 17929.5000 | 45.73 | 23.45 | 22.28 | 54 | -8.27 | 0.5 | Horizontal | AV | Pass |

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1
Vertical:



Susputed Data List

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|-----|-------------|------------------|-------------|----------------|------------|-------------|---------|----------|-------|---------|
| 1 | 2455.0000 | 50.13 | 27.45 | 22.68 | 74 | -23.87 | 280.6 | Vertical | PK | Pass |
| 1 | 2455.0000 | 36.59 | 27.45 | 9.14 | 54 | -17.41 | 280.6 | Vertical | AV | Pass |
| 2 | 3938.7500 | 49.15 | 29.55 | 19.6 | 74 | -24.85 | 260.3 | Vertical | PK | Pass |
| 2 | 3938.7500 | 40.69 | 29.55 | 11.14 | 54 | -13.31 | 260.3 | Vertical | AV | Pass |
| 3 | 5935.6250 | 56.68 | 32.7 | 23.98 | 74 | -17.32 | 347.8 | Vertical | PK | Pass |
| 3 | 5935.6250 | 47.14 | 32.7 | 14.44 | 54 | -6.86 | 347.8 | Vertical | AV | Pass |
| 4 | 11745.0000 | 47.01 | 16.11 | 30.9 | 74 | -26.99 | 87.8 | Vertical | PK | Pass |
| 4 | 11745.0000 | 42.31 | 16.11 | 26.2 | 54 | -11.69 | 87.8 | Vertical | AV | Pass |
| 5 | 14071.5000 | 49.44 | 19.06 | 30.38 | 74 | -24.56 | 360.1 | Vertical | PK | Pass |
| 5 | 14071.5000 | 41.72 | 19.06 | 22.66 | 54 | -12.28 | 360.1 | Vertical | AV | Pass |
| 6 | 17806.5000 | 52.38 | 22.66 | 29.72 | 74 | -21.62 | 1.6 | Vertical | PK | Pass |
| 6 | 17806.5000 | 44.87 | 22.66 | 22.21 | 54 | -9.13 | 1.6 | Vertical | AV | Pass |

Note:

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level+ Probe Factor +Cable Loss.
3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Report No.: WSCT-ANAB-R&E241100065A-Wi-Fi1

7 Test Setup Photographs

“Please refer to Annex "Set Up Photos-15C" for test setup photos”

*******END OF REPORT*******