

5.BANDWIDTH

5.1LIMIT

| Section | Test Item | Limit | Frequency Range (MHz) |
|--------------------------------|-----------------|-----------------|-----------------------|
| FCC 15.407(a) FCC 15.407(e) | 26 dB Bandwidth | - | 5150-5250 |
| | 26 dB Bandwidth | - | 5250-5350 |
| | 26 dB Bandwidth | - | 5470-5725 |
| | 6dB Bandwidth | Minimum 500 kHz | 5725-5850 |

5.2TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- Spectrum Setting:
For UNII-1, UNII-2A, UNII-2C

| Spectrum Parameter | Setting |
|--------------------|--|
| Span Frequency | > 26dB Bandwidth |
| RBW | Appromiximately 1% of the emission bandwidth |
| VBW | > RBW |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

For UNII-3:

| Spectrum Parameter | Setting |
|--------------------|-----------------|
| Span Frequency | > 6dB Bandwidth |
| RBW | 100 kHz |
| VBW | 300 kHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

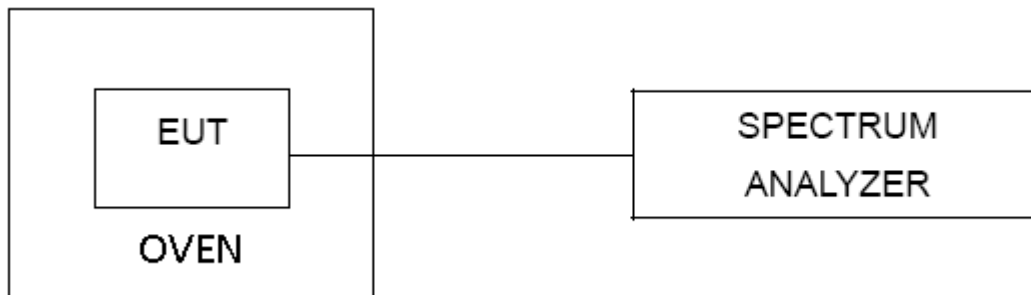
For 99% Occupied Bandwidth:

| Spectrum Parameter | Setting |
|--------------------|------------------------------|
| Span Frequency | 1.5 times to 5 times the OBW |
| RBW | 1% to 5% of the OBW |
| VBW | $\geq 3 \times \text{RBW}$ |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

- Measured the spectrum width with power higher than 26dB / 6dB below carrier.

5.3DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP**5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6.MAXIMUMOUTPUT POWER

6.1LIMIT

| Section | Test Item | Limit | Frequency Range (MHz) |
|---------------|---------------------|---|-----------------------|
| FCC 15.407(a) | MAXimumOutput Power | AP device:1 Watt (30dBm) Client device: 250mW (23.98dBm) | 5150-5250 |
| | | 250mW (23.98dBm) | 5250-5350 |
| | | 250mW (23.98dBm) | 5470-5725 |
| | | 1 Watt (30dBm) | 5725-5850 |

Note:

- For client devices in the 5.15-5.25 GHz band, the Maximumconducted output power over the frequency band of operation shall not exceed 250 mW provided the Maximumantenna gain does not exceed 6 dBi. In addition, the Maximumpower spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the Maximumconducted output power and the Maximumpower spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the Maximumconducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

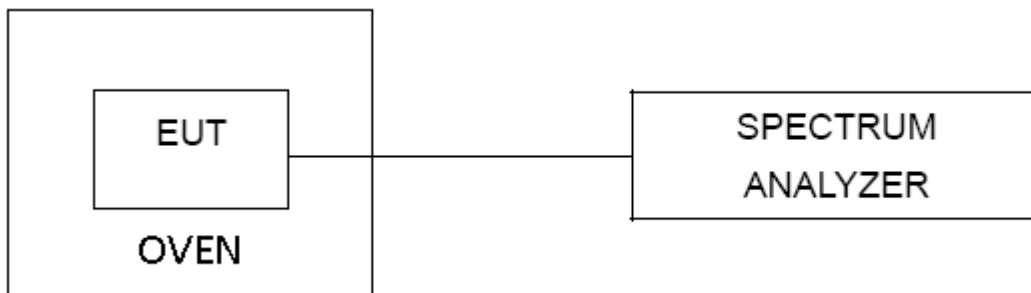
6.2TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- The test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.3DEVIATION FROM STANDARD

No deviation.

6.4TEST SETUP



6.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7.POWER SPECTRAL DENSITY

7.1LIMIT

| Section | Test Item | Limit | Frequency Range (MHz) |
|---------------|------------------------|--|-----------------------|
| FCC 15.407(a) | Power Spectral Density | AP device:17dBm/MHz Client device:11dBm/MHz | 5150-5250 |
| | | 11dBm/MHz | 5250-5350 |
| | | 11dBm/MHz | 5470-5725 |
| | | 30dBm/500kHz | 5725-5850 |

7.2TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:
For UNII-1, UNII-2C, UNII-2C

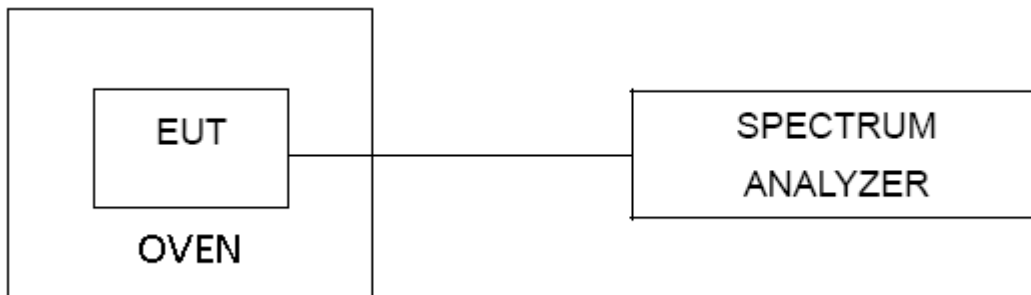
| Spectrum Parameter | Setting |
|--------------------|--|
| Span Frequency | Encompass the entire emissions bandwidth (EBW) of the signal |
| RBW | 1MHz. |
| VBW | 3MHz. |
| Detector | RMS |
| Trace average | 100 trace |
| Sweep Time | Auto |

For UNII-3:

| Spectrum Parameter | Setting |
|--------------------|--|
| Span Frequency | Encompass the entire emissions bandwidth (EBW) of the signal |
| RBW | 500KHz. |
| VBW | 2MHz. |
| Detector | RMS |
| Trace average | 100 trace |
| Sweep Time | Auto |

7.3DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP**7.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIXG.

8.FREQUENCY STABILITY

8.1LIMIT

| Section | Test Item | Limit | Frequency Range (MHz) |
|---------------|---------------------|---|-----------------------|
| FCC 15.407(g) | Frequency Stability | An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual. | 5150-5250 |
| | | | 5250-5350 |
| | | | 5470-5725 |
| | | | 5725-5850 |

8.2TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

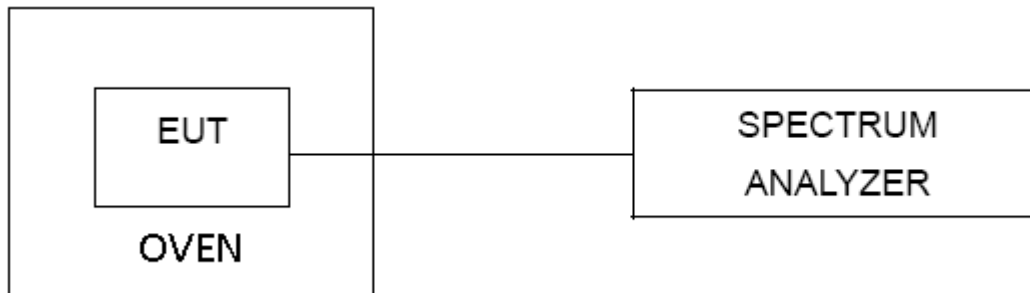
| Spectrum Parameter | Setting |
|--------------------|---|
| Span Frequency | Entire absence of modulation emissionsbandwidth |
| RBW | 10 kHz |
| VBW | 10kHz |
| Detector | Peak |
| Trace | MAX Hold |
| Sweep Time | Auto |

- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- User manual temperature is -30°C~75°C.

8.3DEVIATION FROM STANDARD

No deviation.

8.4TEST SETUP



8.5EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

N/A.

9. MEASUREMENT INSTRUMENTS LIST

| Name of Equipment | Manufacturer | Model Number | Serial Number | Last Calibration | Due Calibration |
|-------------------|-----------------|----------------------|--------------------------|------------------|-----------------|
| EMI Receiver | Rohde&Schwarz | ESIB 40 | YH-TIRT-SAC-966-20220911 | 2025/01/05 | 2026/01/04 |
| Integral Antenna | Schwarzbeck | VULB 9163 | 01314 | 2024/12/11 | 2026/12/10 |
| Integral Antenna | Rohde&Schwarz | HF907 | RSM2991424 | 2024/12/11 | 2026/12/10 |
| Preamplifier | Emtrace | RP01A | '02017 | 2025/01/05 | 2026/01/04 |
| Preamplifier | Schwarzbeck | BBV9744 | 00143 | 2025/01/05 | 2026/01/04 |
| Loop Antenna | ZHINAN | ZN30900A | 12024 | 2025/01/05 | 2026/01/04 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 00956 | 2025/01/05 | 2026/01/04 |
| RF Cable | / | LMR400UF-NMNM-7.0M | / | 2025/01/05 | 2026/01/04 |
| RF Cable | / | SFT2050PUR-NMNM-7.0M | / | 2025/01/05 | 2026/01/04 |
| EMI Receiver | Rohde&Schwarz | ESR7 | 1316.3003K07-102611-mk | 2024/11/02 | 2025/11/01 |
| LISN | Rohde&Schwarz | ENV216 | 3560.655.12-102915-Bp | 2024/11/02 | 2025/11/01 |
| RF Cable | \ | SFT2050PUR-NMNM-2.0M | \ | 2025/01/05 | 2026/01/04 |
| Spectrum analyzer | ROHDE&SCHWARZ | FSU26 | 200732 | 2025/01/05 | 2026/01/04 |
| Spectrum analyzer | ROHDE&SCHWARZ | FSV40-N | 101722 | 2025/01/05 | 2026/01/04 |
| Filter | HEWLETT PACKARD | JS0806-F | 19K8060209 | 2025/01/05 | 2026/01/04 |

10.EUT TEST PHOTOS

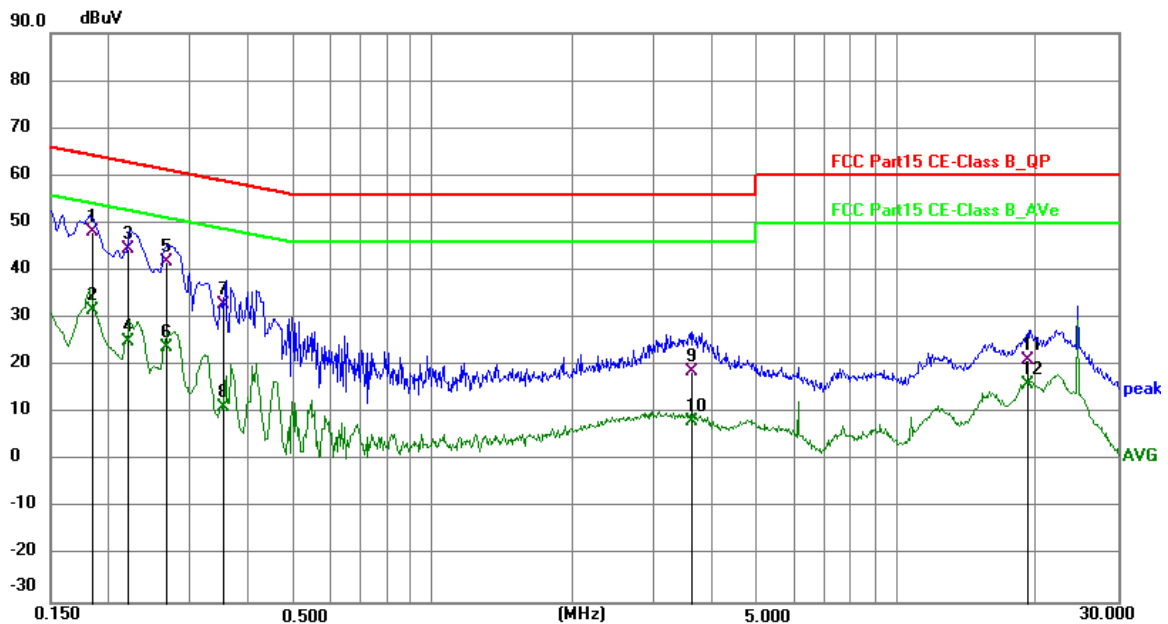
Please reference to the appendix I Test Setup Photo for details.

11.EUT PHOTOS

Please reference to the appendix II external photos and appendix III internal photos for details..

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

| | | | |
|-----------|---------------------------------|-------|------|
| Test Mode | TX A Mode Channel 140 (UNII-2C) | Phase | Line |
|-----------|---------------------------------|-------|------|

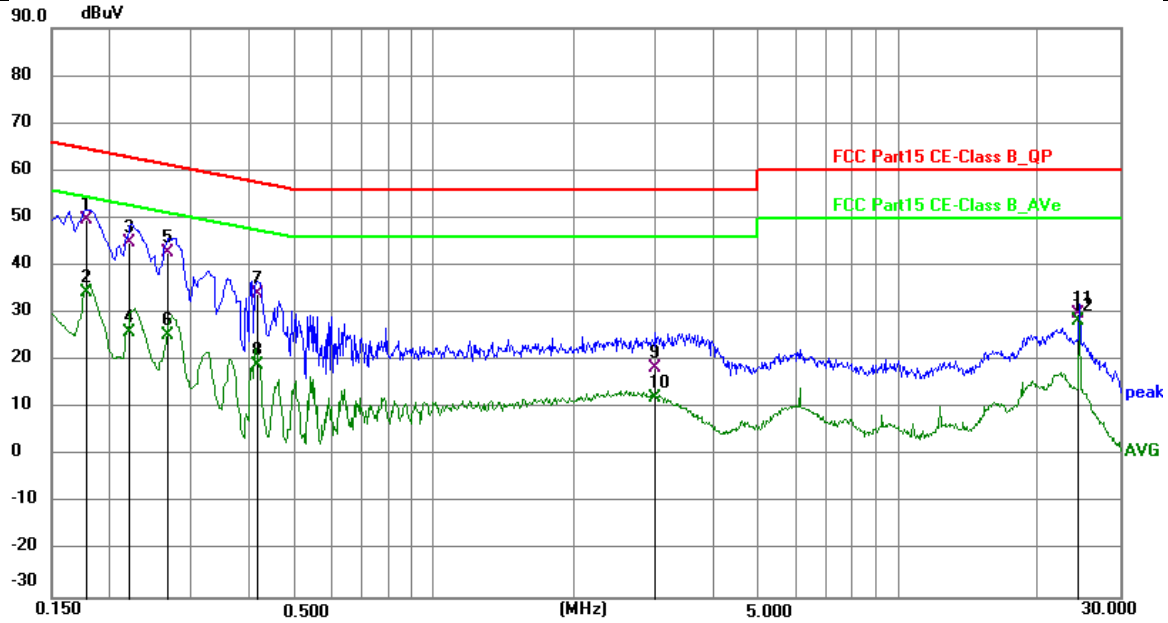


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.1850 | 38.57 | 9.63 | 48.20 | 64.26 | -16.06 | QP | P | |
| 2 | 0.1850 | 22.00 | 9.63 | 31.63 | 54.26 | -22.63 | AVG | P | |
| 3 | 0.2203 | 34.85 | 9.63 | 44.48 | 62.81 | -18.33 | QP | P | |
| 4 | 0.2203 | 15.44 | 9.63 | 25.07 | 52.81 | -27.74 | AVG | P | |
| 5 | 0.2661 | 32.28 | 9.63 | 41.91 | 61.24 | -19.33 | QP | P | |
| 6 | 0.2661 | 14.08 | 9.63 | 23.71 | 51.24 | -27.53 | AVG | P | |
| 7 | 0.3531 | 23.15 | 9.63 | 32.78 | 58.89 | -26.11 | QP | P | |
| 8 | 0.3531 | 1.73 | 9.63 | 11.36 | 48.89 | -37.53 | AVG | P | |
| 9 | 3.6392 | 9.12 | 9.67 | 18.79 | 56.00 | -37.21 | QP | P | |
| 10 | 3.6392 | -1.31 | 9.67 | 8.36 | 46.00 | -37.64 | AVG | P | |
| 11 | 19.2971 | 11.45 | 9.78 | 21.23 | 60.00 | -38.77 | QP | P | |
| 12 | 19.2971 | 6.25 | 9.78 | 16.03 | 50.00 | -33.97 | AVG | P | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

| | | | |
|-----------|---------------------------------|-------|---------|
| Test Mode | TX A Mode Channel 140 (UNII-2C) | Phase | Neutral |
|-----------|---------------------------------|-------|---------|



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.1784 | 39.95 | 9.63 | 49.58 | 64.56 | -14.98 | QP | P | |
| 2 | 0.1784 | 24.80 | 9.63 | 34.43 | 54.56 | -20.13 | AVG | P | |
| 3 | 0.2203 | 35.14 | 9.63 | 44.77 | 62.81 | -18.04 | QP | P | |
| 4 | 0.2203 | 16.40 | 9.63 | 26.03 | 52.81 | -26.78 | AVG | P | |
| 5 | 0.2685 | 33.15 | 9.62 | 42.77 | 61.16 | -18.39 | QP | P | |
| 6 | 0.2685 | 15.79 | 9.62 | 25.41 | 51.16 | -25.75 | AVG | P | |
| 7 | 0.4166 | 24.34 | 9.62 | 33.96 | 57.52 | -23.56 | QP | P | |
| 8 | 0.4166 | 9.48 | 9.62 | 19.10 | 47.52 | -28.42 | AVG | P | |
| 9 | 3.0109 | 8.74 | 9.67 | 18.41 | 56.00 | -37.59 | QP | P | |
| 10 | 3.0109 | 2.59 | 9.67 | 12.26 | 46.00 | -33.74 | AVG | P | |
| 11 | 24.5756 | 19.95 | 9.84 | 29.79 | 60.00 | -30.21 | QP | P | |
| 12 | 24.5756 | 18.50 | 9.84 | 28.34 | 50.00 | -21.66 | AVG | P | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

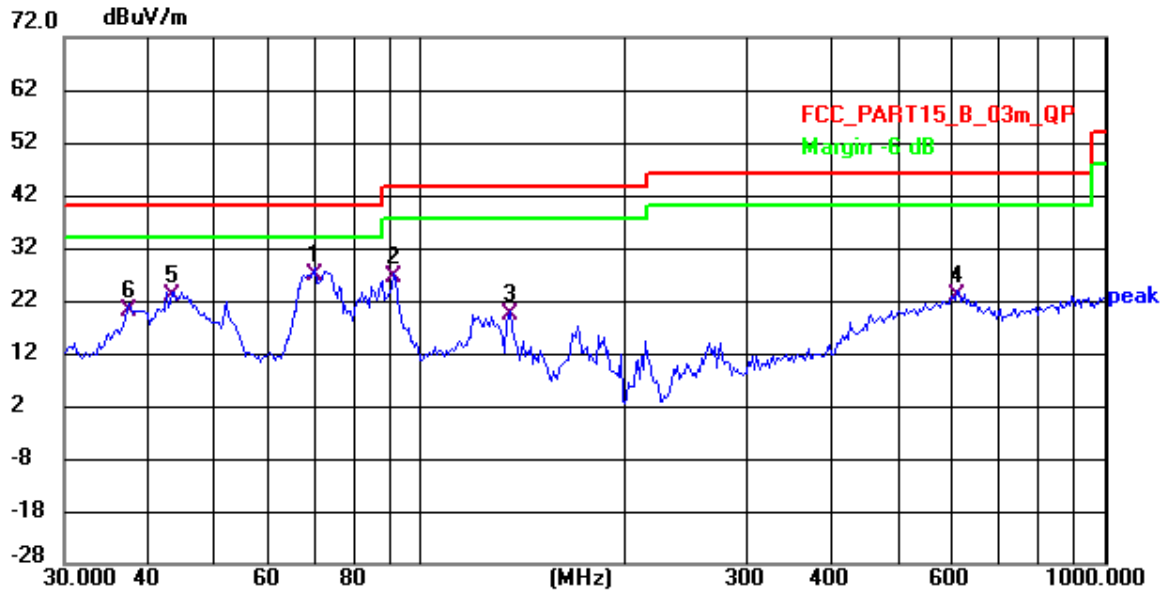
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

| | | | |
|-----------|---------------------------------|--------------|----------|
| Test Mode | TX A Mode Channel 140 (UNII-2C) | Polarization | Vertical |
|-----------|---------------------------------|--------------|----------|

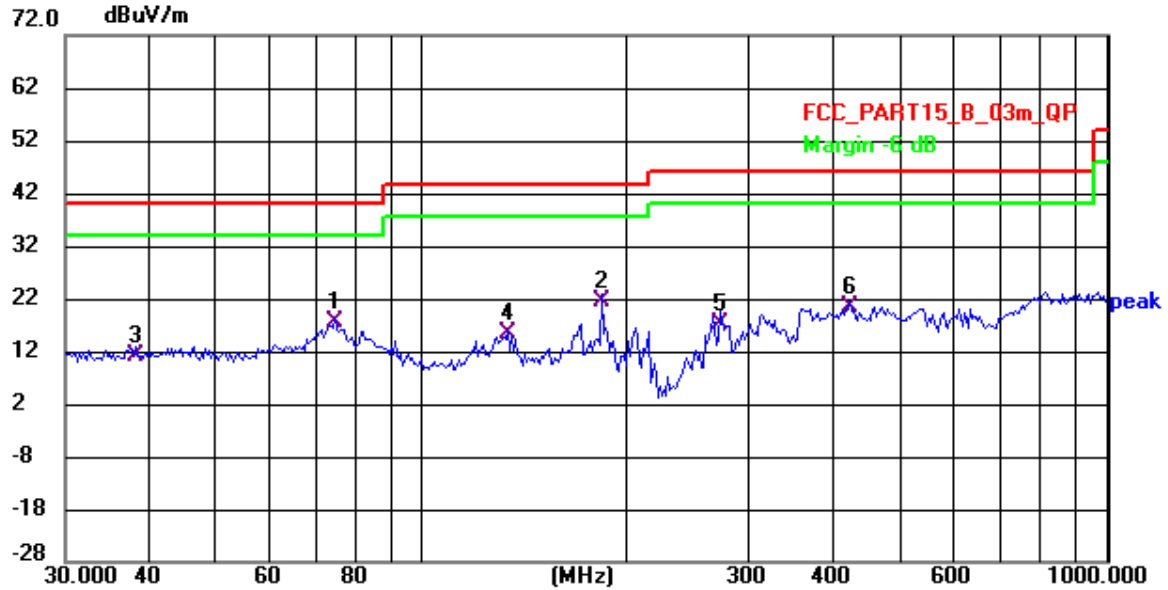


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 69.718 | 49.00 | -22.02 | 26.98 | 40.00 | -13.02 | QP | 100 | 206 | P | |
| 2 | 91.057 | 50.87 | -24.33 | 26.54 | 43.50 | -16.96 | QP | 100 | 228 | P | |
| 3 | 134.964 | 40.77 | -21.45 | 19.32 | 43.50 | -24.18 | QP | 100 | 254 | P | |
| 4 | 607.181 | 36.96 | -13.95 | 23.01 | 46.00 | -22.99 | QP | 100 | 321 | P | |
| 5 | 43.233 | 42.13 | -19.39 | 22.74 | 40.00 | -17.26 | QP | 100 | 0 | P | |
| 6 | 37.302 | 39.58 | -19.57 | 20.01 | 40.00 | -19.99 | QP | 100 | 171 | P | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

| | | | |
|-----------|---------------------------------|--------------|------------|
| Test Mode | TX A Mode Channel 140 (UNII-2C) | Polarization | Horizontal |
|-----------|---------------------------------|--------------|------------|



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 74.270 | 40.57 | -22.99 | 17.58 | 40.00 | -22.42 | QP | 199 | 347 | P | |
| 2 * | 182.578 | 44.46 | -23.14 | 21.32 | 43.50 | -22.18 | QP | 199 | 86 | P | |
| 3 | 38.096 | 30.71 | -19.46 | 11.25 | 40.00 | -28.75 | QP | 200 | 14 | P | |
| 4 | 133.081 | 36.81 | -21.49 | 15.32 | 43.50 | -28.18 | QP | 200 | 0 | P | |
| 5 | 272.524 | 40.06 | -23.01 | 17.05 | 46.00 | -28.95 | QP | 200 | 0 | P | |
| 6 | 421.329 | 39.02 | -18.71 | 20.31 | 46.00 | -25.69 | QP | 200 | 180 | P | |

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Result of Band edges.

Test Result B1/2/3

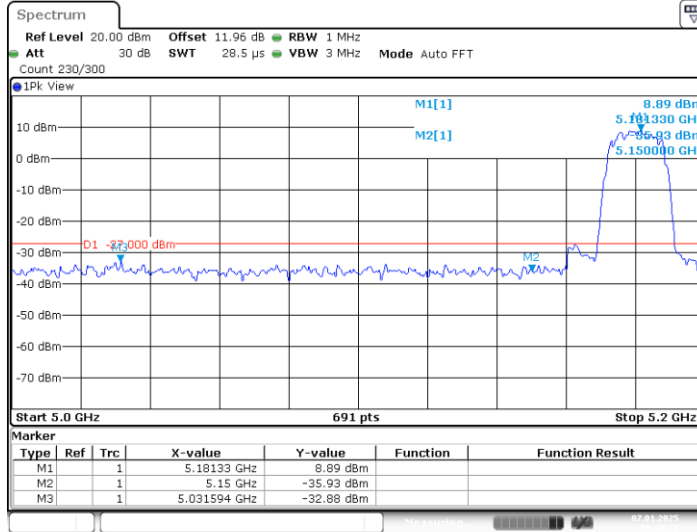
| TestMode | Antenna | ChName | Freq(MHz) | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------|-------------|------------|---------|
| 11A | Ant1 | Low | 5180 | -32.88 | ≤-27 | PASS |
| | | High | 5240 | -32.49 | ≤-27 | PASS |
| | | Low | 5260 | -32.99 | ≤-27 | PASS |
| | | High | 5320 | -31.6 | ≤-27 | PASS |
| | | Low | 5500 | -31.08 | ≤-27 | PASS |
| | | High | 5700 | -31.48 | ≤-27 | PASS |
| 11N20 | Ant1 | Low | 5180 | -32.63 | ≤-27 | PASS |
| | | High | 5240 | -32.64 | ≤-27 | PASS |
| | | Low | 5260 | -32.26 | ≤-27 | PASS |
| | | High | 5320 | -32.16 | ≤-27 | PASS |
| | | Low | 5500 | -31.81 | ≤-27 | PASS |
| | | High | 5700 | -32.69 | ≤-27 | PASS |
| 11N40 | Ant1 | Low | 5190 | -33.22 | ≤-27 | PASS |
| | | High | 5230 | -31.94 | ≤-27 | PASS |
| | | Low | 5270 | -34.68 | ≤-27 | PASS |
| | | High | 5310 | -32.48 | ≤-27 | PASS |
| | | Low | 5510 | -32.09 | ≤-27 | PASS |
| | | High | 5670 | -32.2 | ≤-27 | PASS |
| 11AC20 | Ant1 | Low | 5180 | -33.12 | ≤-27 | PASS |
| | | High | 5240 | -31.44 | ≤-27 | PASS |
| | | Low | 5260 | -32.48 | ≤-27 | PASS |
| | | High | 5320 | -32.17 | ≤-27 | PASS |
| | | Low | 5500 | -31.4 | ≤-27 | PASS |
| | | High | 5700 | -31.79 | ≤-27 | PASS |
| 11AC40 | Ant1 | Low | 5190 | -32.99 | ≤-27 | PASS |
| | | High | 5230 | -31.7 | ≤-27 | PASS |
| | | Low | 5270 | -33.32 | ≤-27 | PASS |
| | | High | 5310 | -31.14 | ≤-27 | PASS |
| | | Low | 5510 | -31.14 | ≤-27 | PASS |
| | | High | 5670 | -32.1 | ≤-27 | PASS |
| 11AC80 | Ant1 | High | 5210 | -31.55 | ≤-27 | PASS |
| | | Low | 5290 | -33.89 | ≤-27 | PASS |

Test Result B4

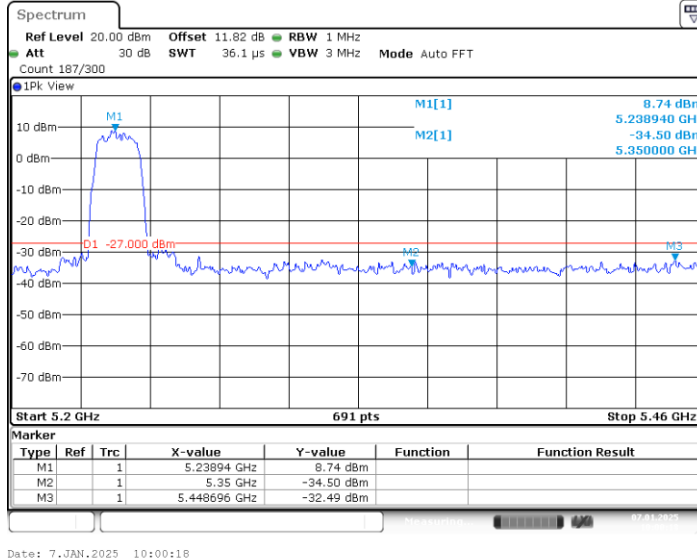
| TestMod e | Antenna | ChName | Freq(MHz) | FreqRange [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|--------------|---------|--------|-----------|--------------------|-----------------|----------------|---------|
| 11A | Ant1 | Low | 5745 | 5650~5700 | -35.43 | ≤-26.88 | PASS |
| | | | | 5700~5720 | -33.63 | ≤10.70 | PASS |
| | | | | 5720~5725 | -33.51 | ≤15.98 | PASS |
| | | | | 5760~5650 | -34.63 | ≤-27 | PASS |
| | | High | 5825 | 5850~5855 | -33.01 | ≤15.65 | PASS |
| | | | | 5855~5875 | -32.51 | ≤10.95 | PASS |
| | | | | 5875~5925 | -32.77 | ≤-25.42 | PASS |
| | | | | 5925~5935 | -33.62 | ≤-27 | PASS |
| 11N20 | Ant1 | Low | 5745 | 5650~5700 | -34.61 | ≤-26.88 | PASS |
| | | | | 5700~5720 | -33.76 | ≤10.33 | PASS |
| | | | | 5720~5725 | -34.33 | ≤15.98 | PASS |
| | | | | 5760~5650 | -34.13 | ≤-27 | PASS |
| | | High | 5825 | 5850~5855 | -34.91 | ≤15.65 | PASS |
| | | | | 5855~5875 | -33.11 | ≤10.46 | PASS |
| | | | | 5875~5925 | -34.1 | ≤-26.15 | PASS |
| | | | | 5925~5935 | -32.69 | ≤-27 | PASS |
| 11N40 | Ant1 | Low | 5755 | 5650~5700 | -35.4 | ≤-26.50 | PASS |
| | | | | 5700~5720 | -31.01 | ≤10.05 | PASS |
| | | | | 5720~5725 | -31.76 | ≤16.34 | PASS |
| | | | | 5780~5650 | -33.58 | ≤-27 | PASS |
| | | High | 5795 | 5850~5855 | -34.07 | ≤15.85 | PASS |
| | | | | 5855~5875 | -31.55 | ≤11.21 | PASS |
| | | | | 5875~5925 | -35.06 | ≤-26.61 | PASS |
| | | | | 5925~5935 | -33.37 | ≤-27 | PASS |
| 11AC20 | Ant1 | Low | 5745 | 5650~5700 | -35.16 | ≤-26.88 | PASS |
| | | | | 5700~5720 | -33.37 | ≤10.23 | PASS |
| | | | | 5720~5725 | -35.49 | ≤15.98 | PASS |
| | | | | 5760~5650 | -34.41 | ≤-27 | PASS |
| | | High | 5825 | 5850~5855 | -34.5 | ≤15.65 | PASS |
| | | | | 5855~5875 | -32.75 | ≤11.22 | PASS |
| | | | | 5875~5925 | -35.13 | ≤-26.87 | PASS |
| | | | | 5925~5935 | -33.29 | ≤-27 | PASS |
| 11AC40 | Ant1 | Low | 5755 | 5650~5700 | -34.68 | ≤-26.21 | PASS |
| | | | | 5700~5720 | -33.22 | ≤10.05 | PASS |
| | | | | 5720~5725 | -31.47 | ≤15.90 | PASS |
| | | | | 5780~5650 | -34.57 | ≤-27 | PASS |
| | | High | 5795 | 5850~5855 | -33.24 | ≤16.39 | PASS |
| | | | | 5855~5875 | -33.19 | ≤10.54 | PASS |
| | | | | 5875~5925 | -35.15 | ≤-26.97 | PASS |
| | | | | 5925~5935 | -34.11 | ≤-27 | PASS |
| 11AC80 | Ant1 | Low | 5775 | 5650~5700 | -35.1 | ≤-26.54 | PASS |
| | | | | 5700~5720 | -31.7 | ≤10.83 | PASS |
| | | | | 5720~5725 | -28.57 | ≤15.67 | PASS |
| | | | | 5800~5650 | -34.22 | ≤-27 | PASS |
| | | High | 5775 | 5850~5855 | -33.49 | ≤15.98 | PASS |
| | | | | 5855~5875 | -32.95 | ≤10.02 | PASS |
| | | | | 5875~5925 | -32.57 | ≤-26.46 | PASS |
| | | | | 5925~5935 | -33.72 | ≤-27 | PASS |

Test Graphs B1/2/3

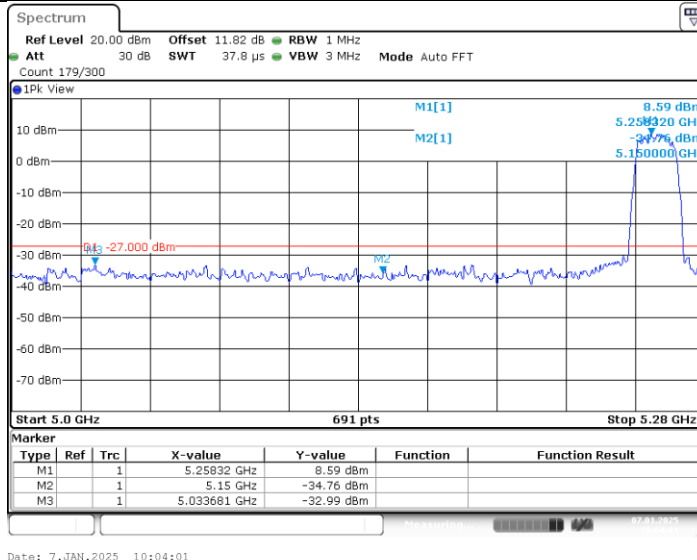
11A_Ant1_Low_5180



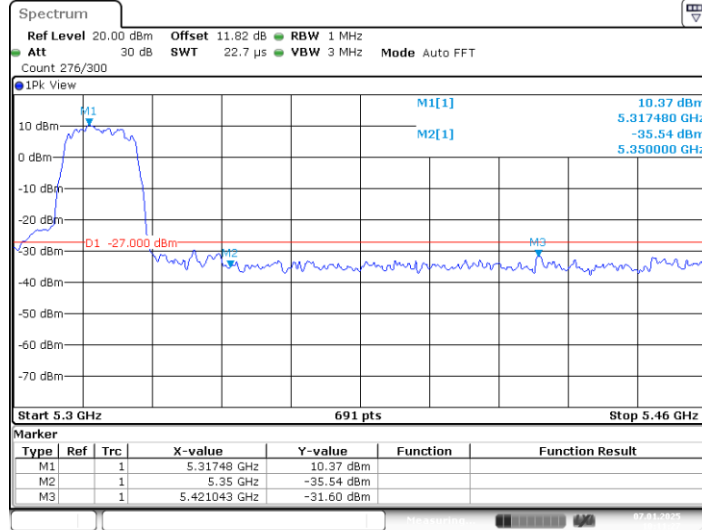
11A_Ant1_High_5240



11A_Ant1_Low_5260

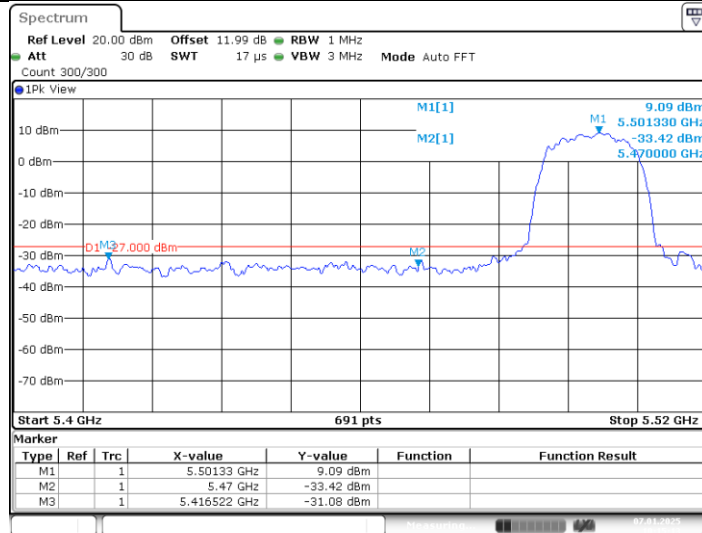


11A_Ant1_High_5320



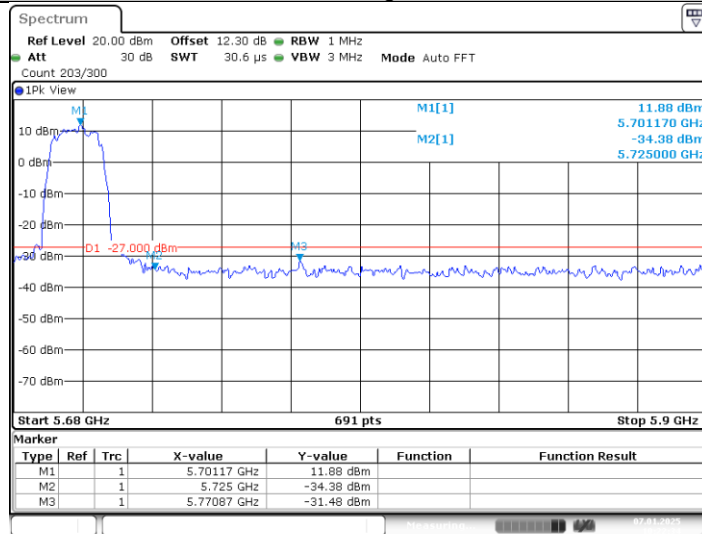
Date: 7.JAN.2025 10:11:27

11A_Ant1_Low_5500



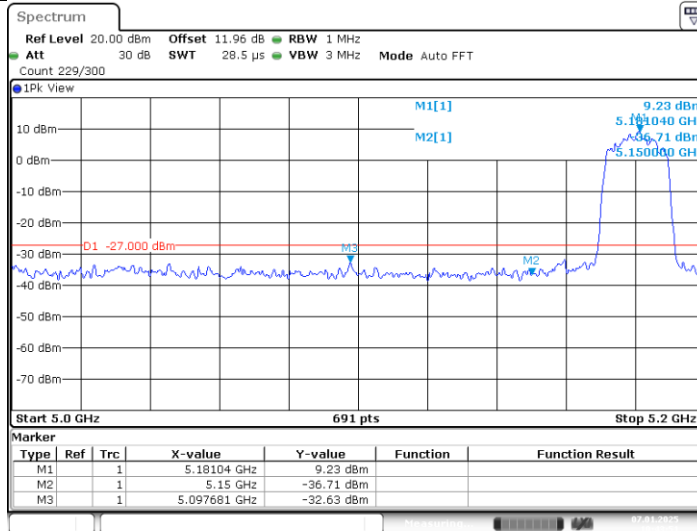
Date: 7.JAN.2025 10:15:13

11A_Ant1_High_5700



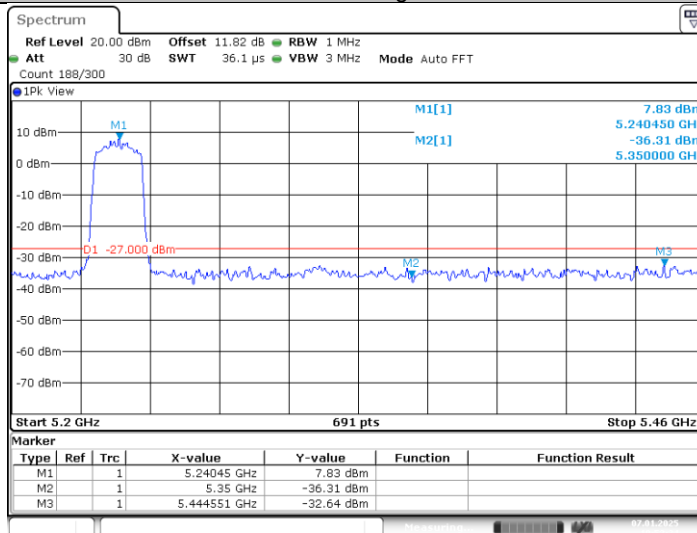
Date: 7.JAN.2025 10:22:34

11N20_Ant1_Low_5180



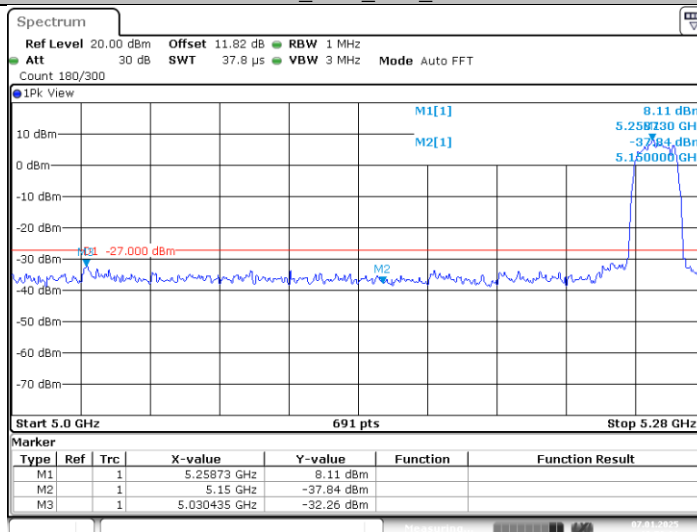
Date: 7.JAN.2025 10:43:51

11N20_Ant1_High_5240



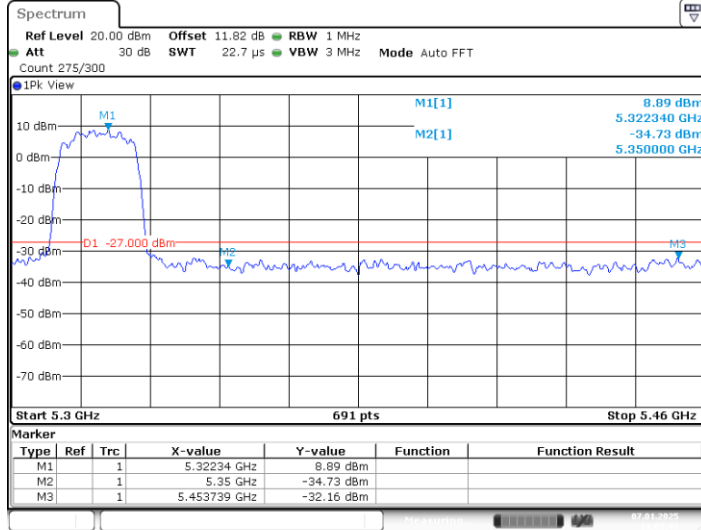
Date: 7.JAN.2025 10:52:34

11N20_Ant1_Low_5260

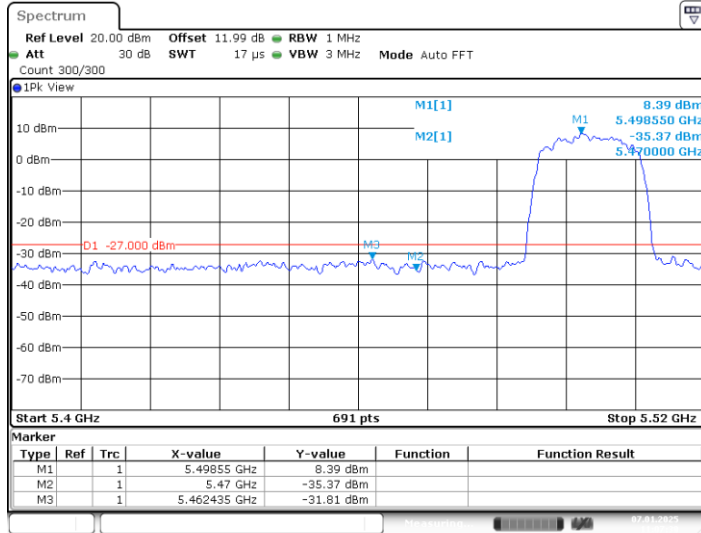


Date: 7.JAN.2025 10:56:31

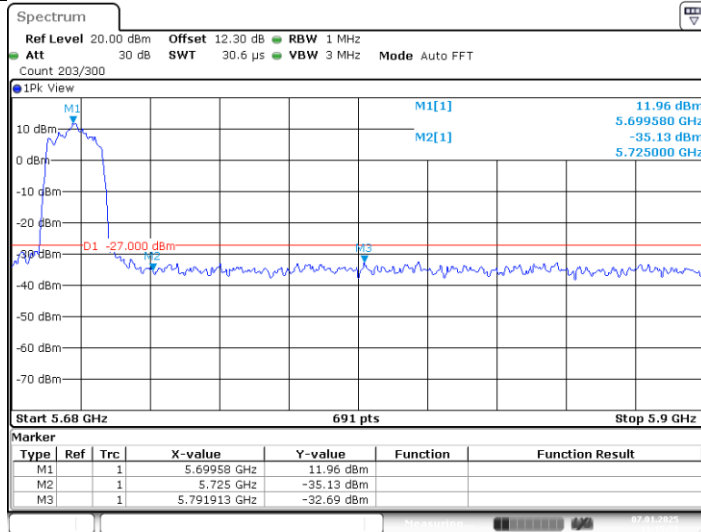
11N20_Ant1_High_5320



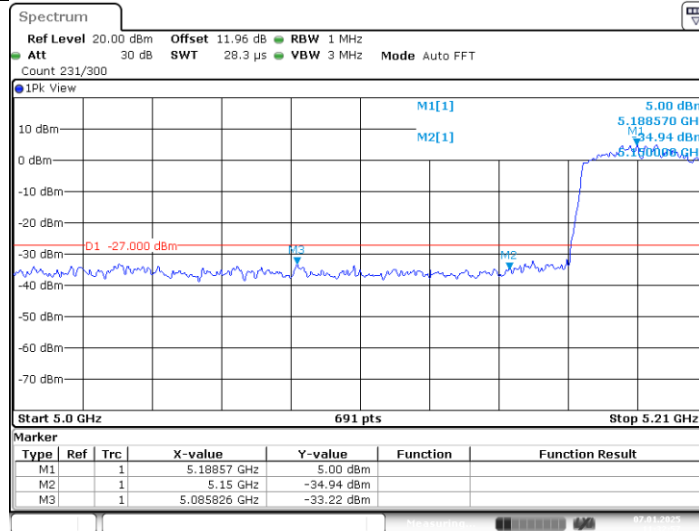
11N20_Ant1_Low_5500



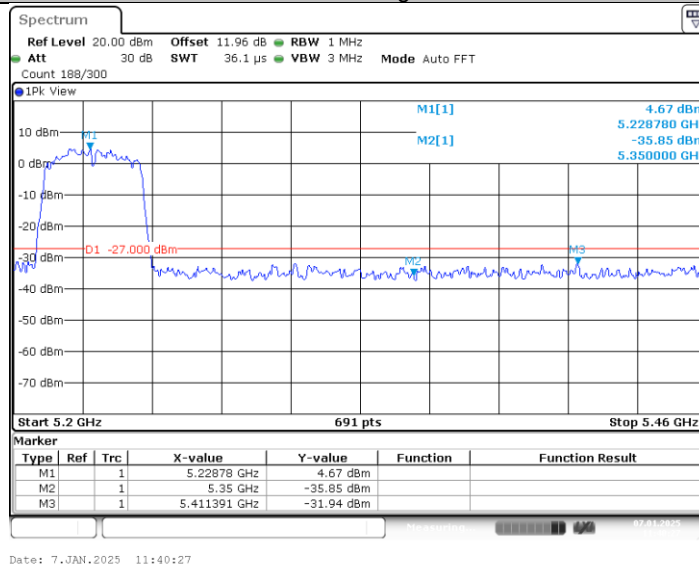
11N20_Ant1_High_5700



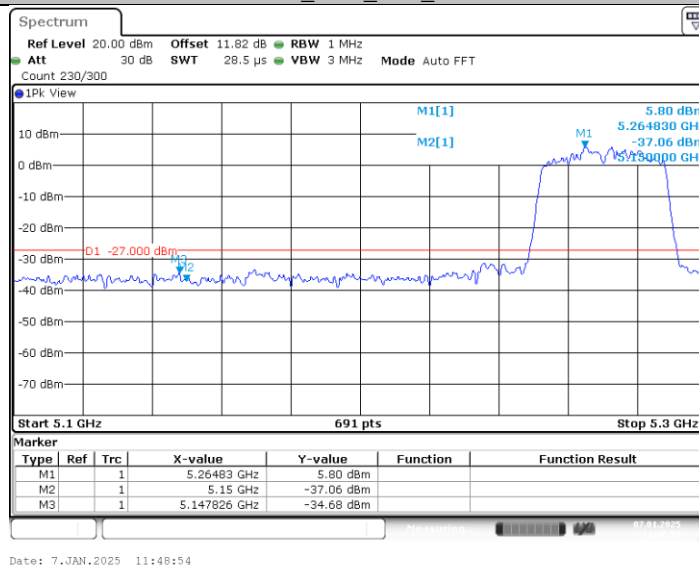
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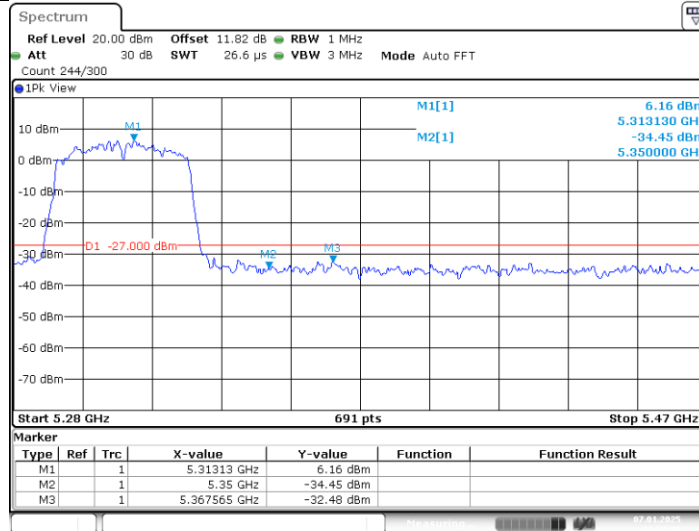
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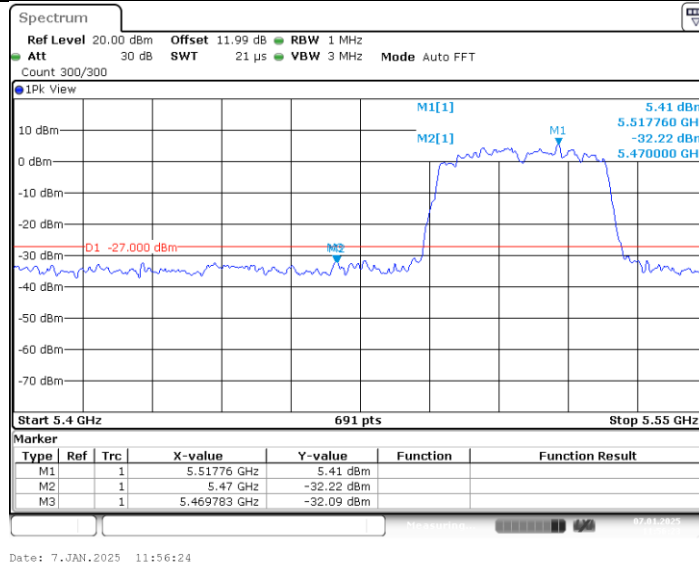
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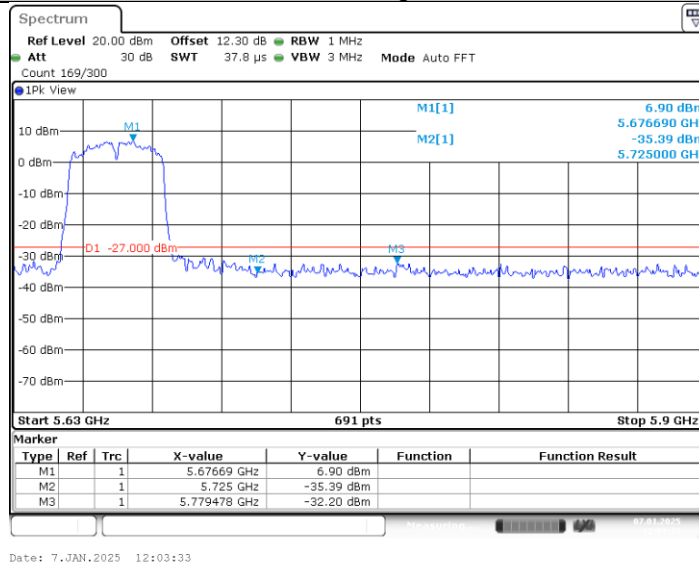
11N40_Ant1_High_5310



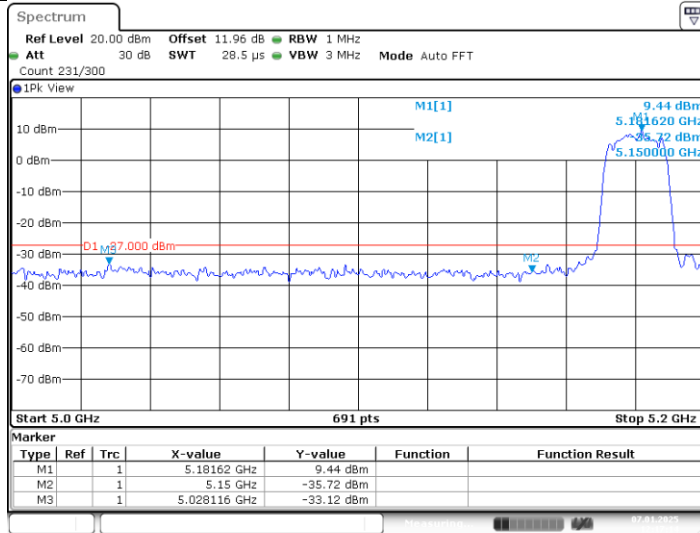
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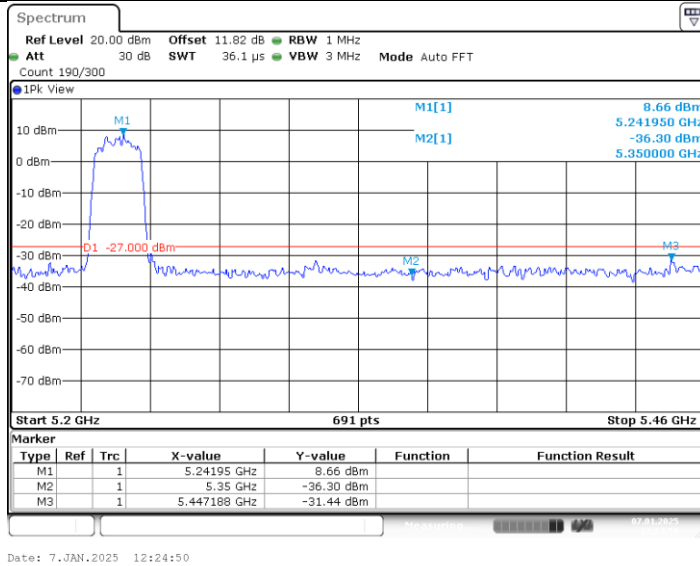
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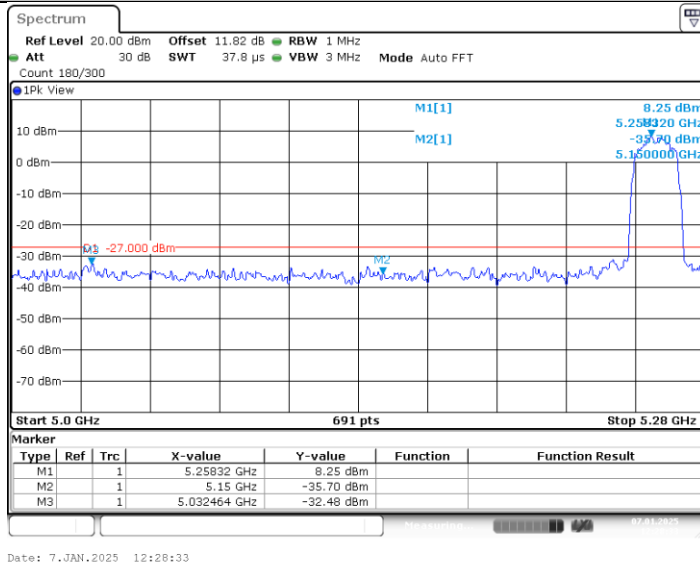
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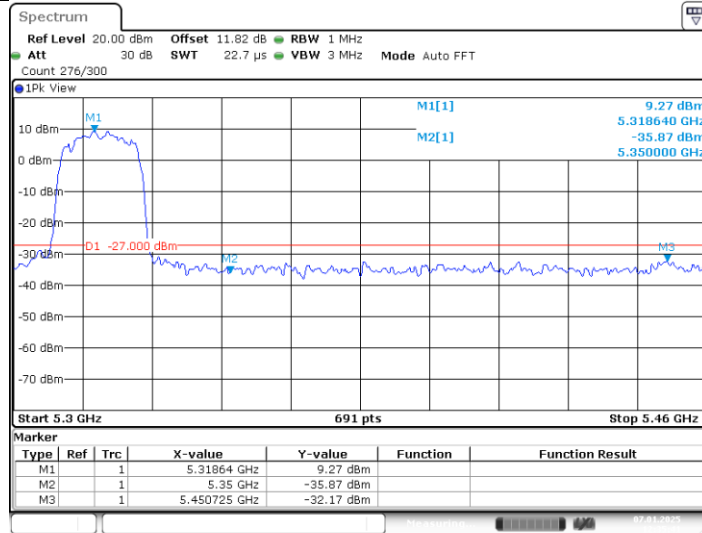
11AC20_Ant1_High_5240



11AC20_Ant1_Low_5260

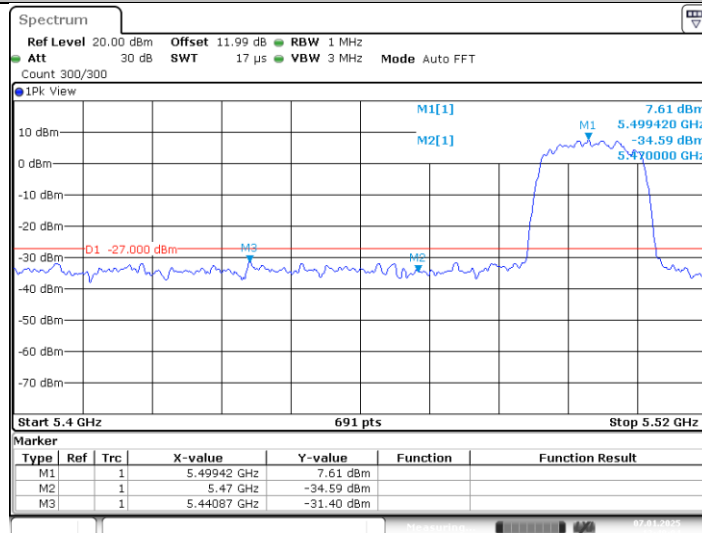


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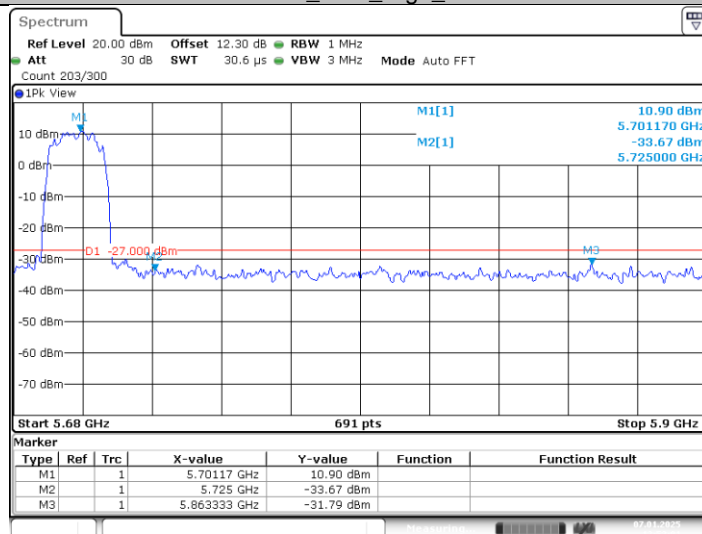
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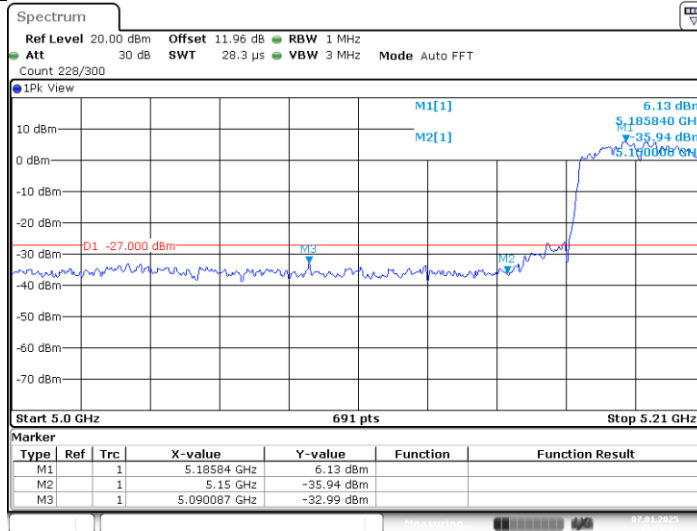
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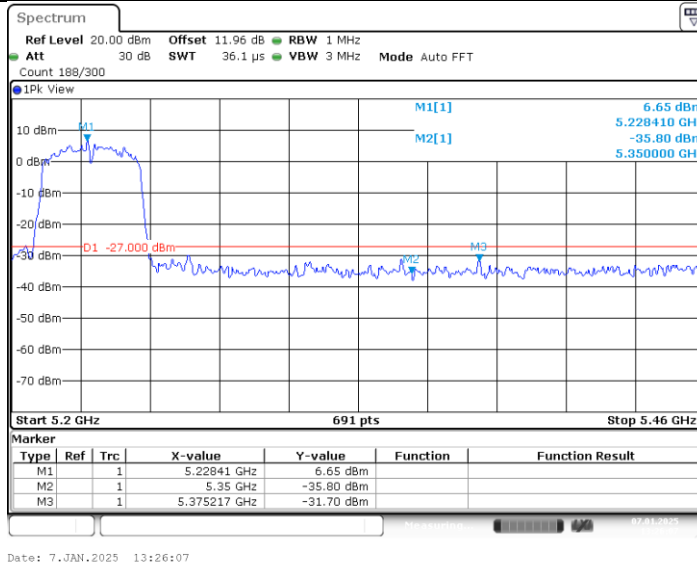


Date: 7.JAN.2025 12:52:01

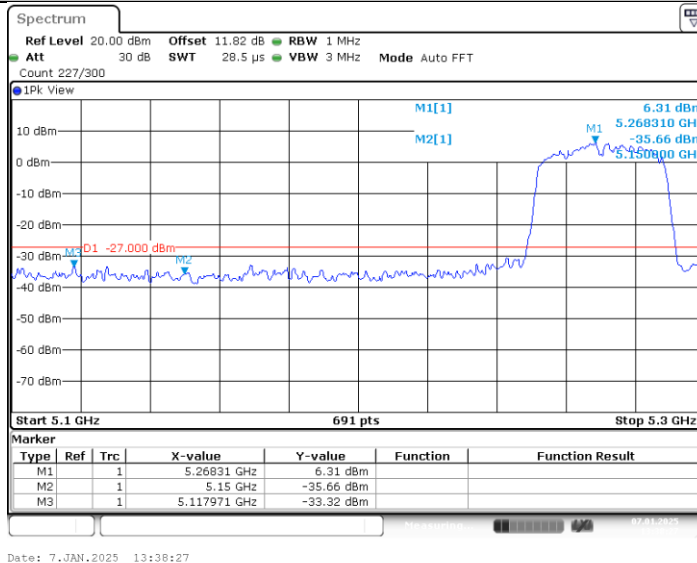
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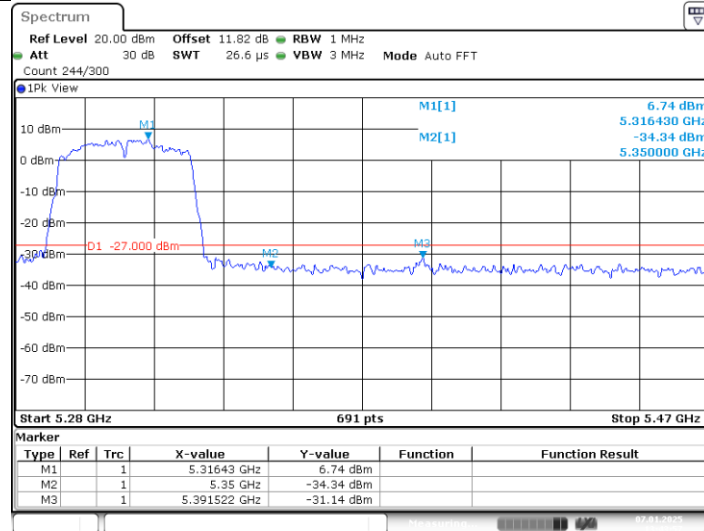
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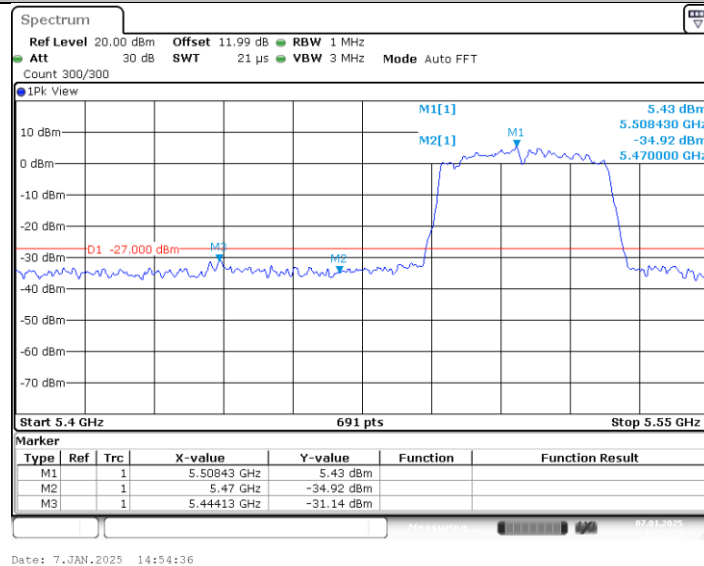
11AC40_Ant1_Low_5270



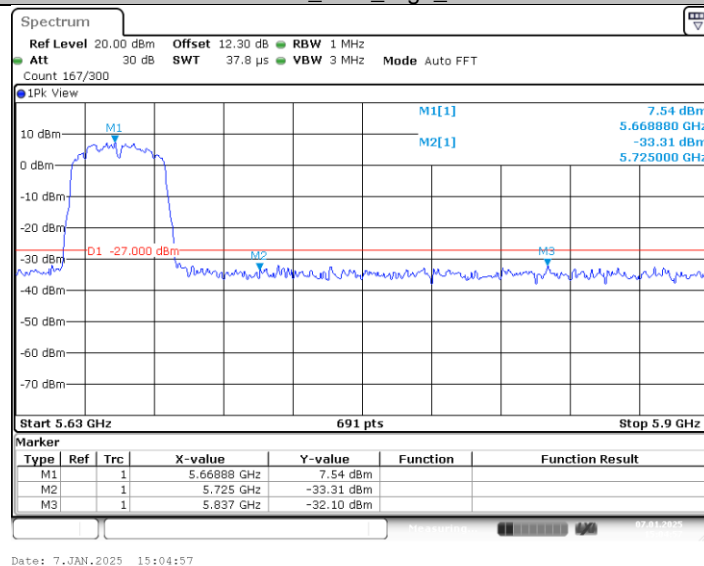
11AC40_Ant1_High_5310



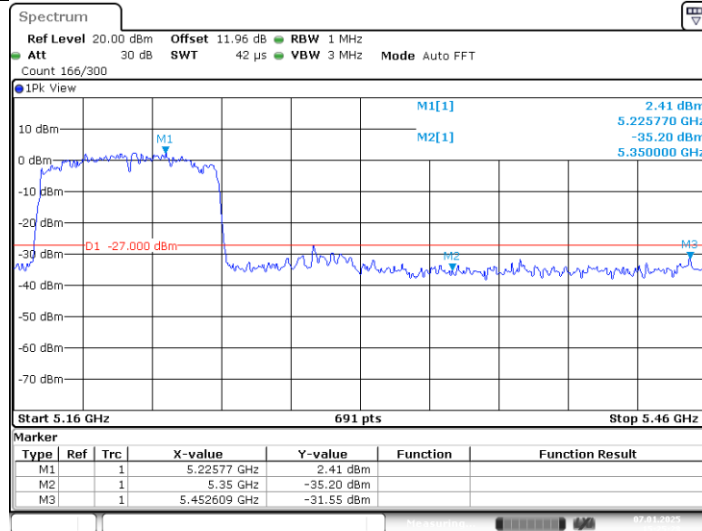
11AC40_Ant1_Low_5510



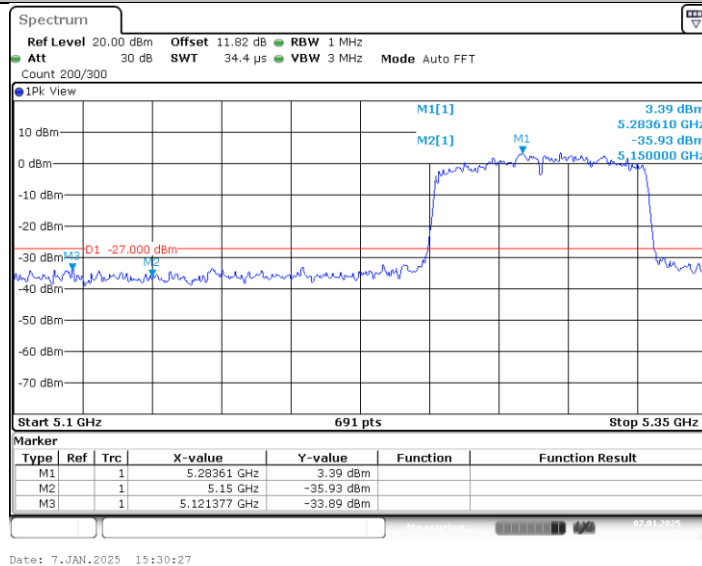
11AC40_Ant1_High_5670



11AC80_Ant1_High_5210

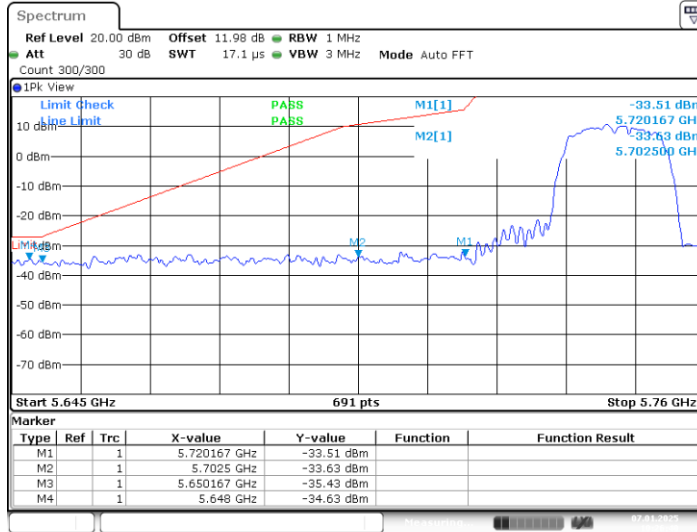


11AC80_Ant1_Low_5290

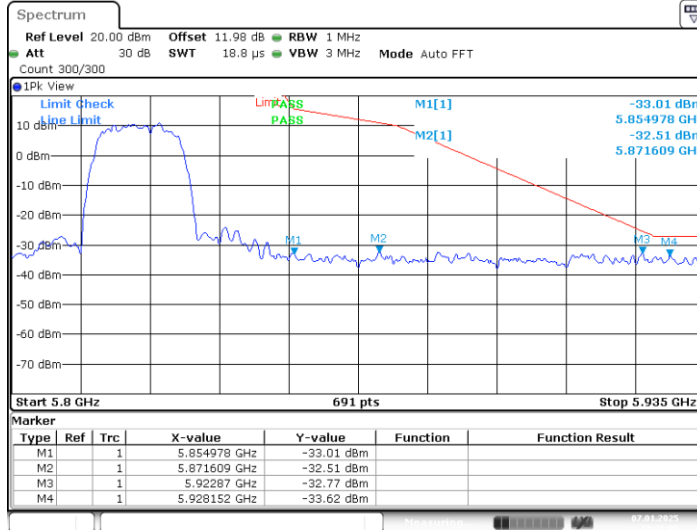


Test Graphs B4

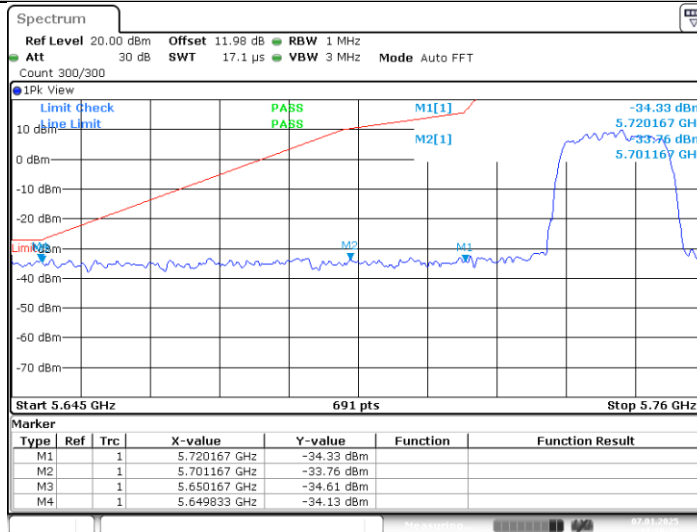
11A_Ant1_Low_5745



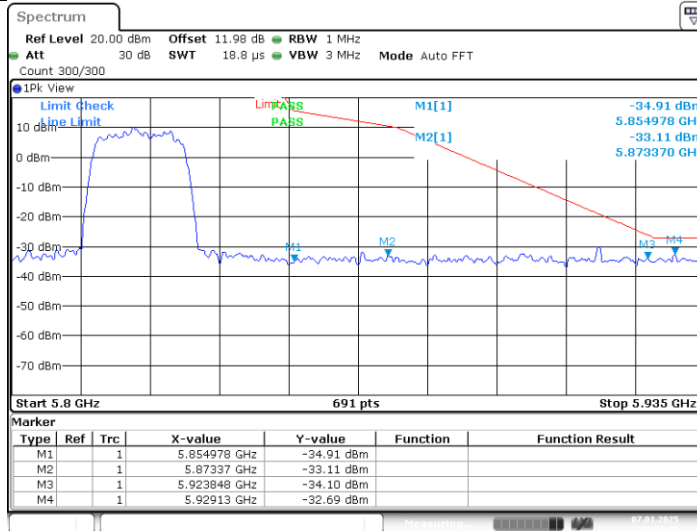
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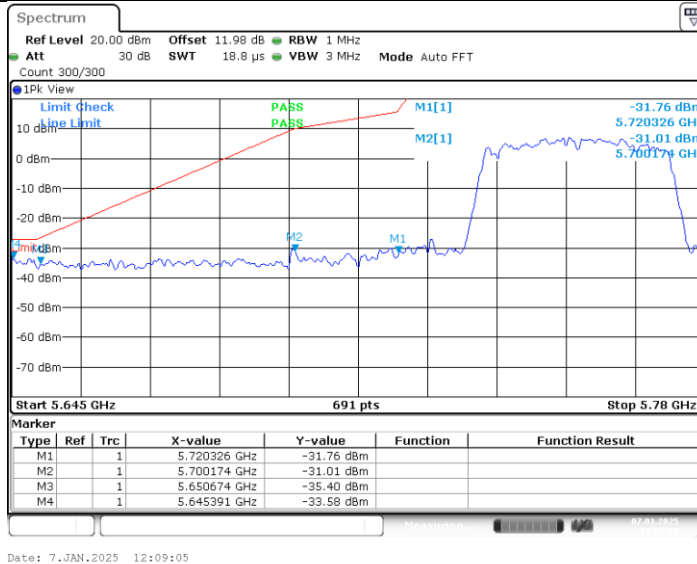
11N20_Ant1_Low_5745



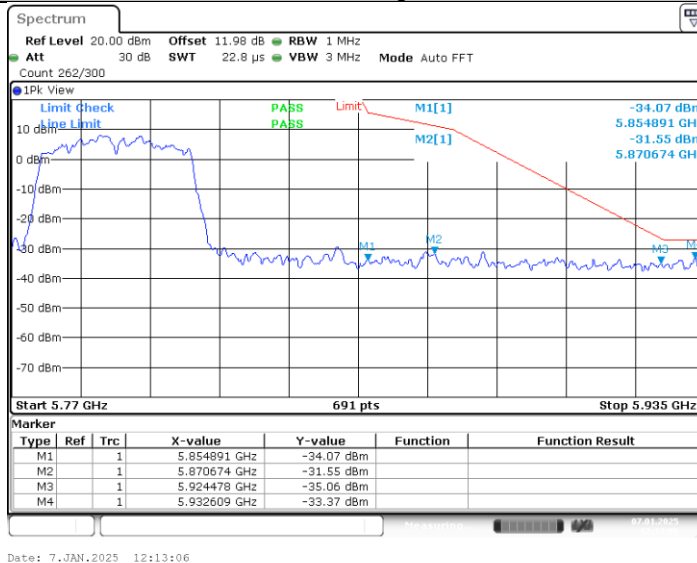
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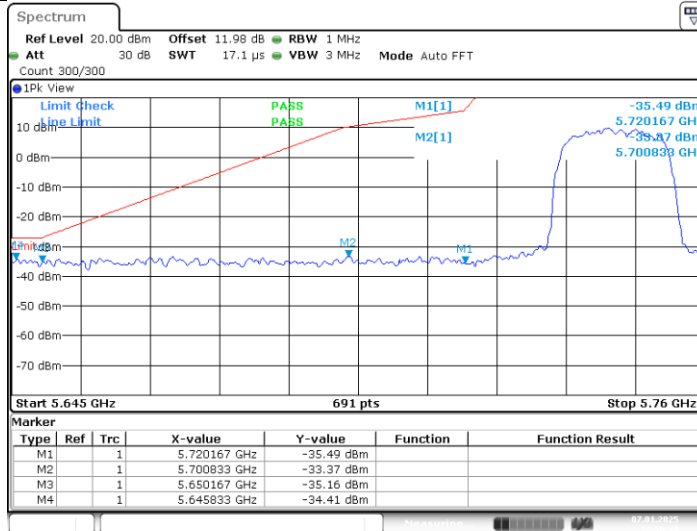
11N40_Ant1_Low_5755



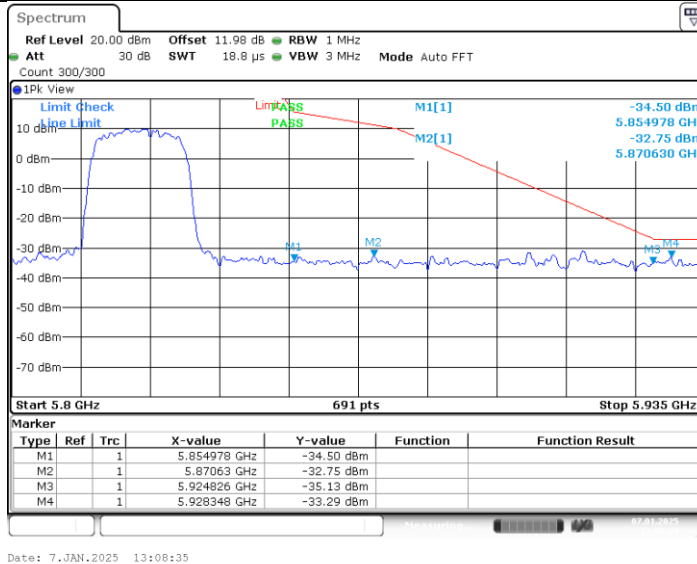
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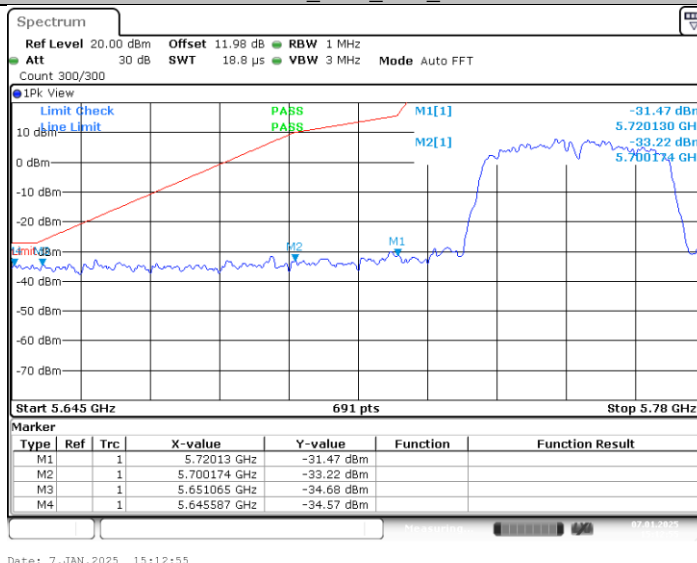
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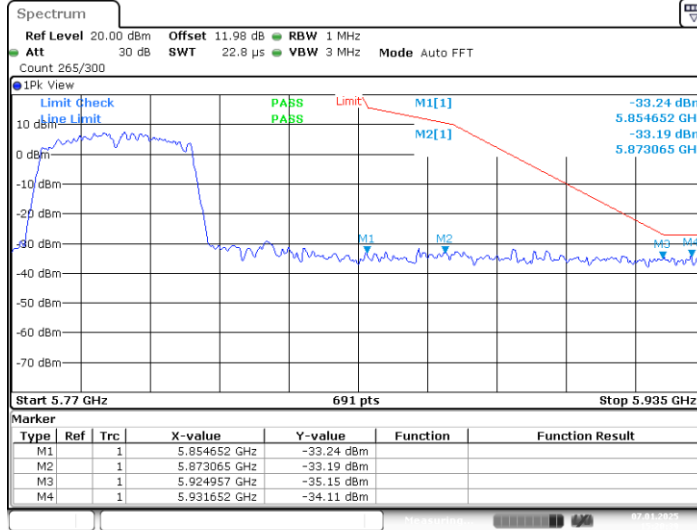
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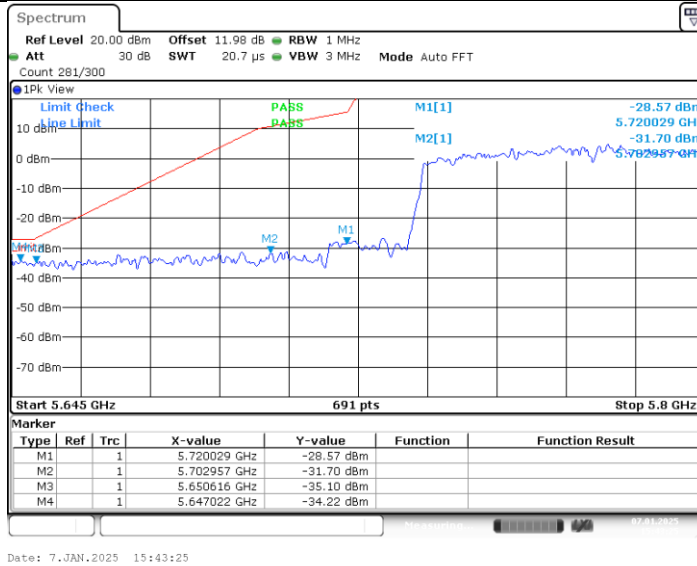
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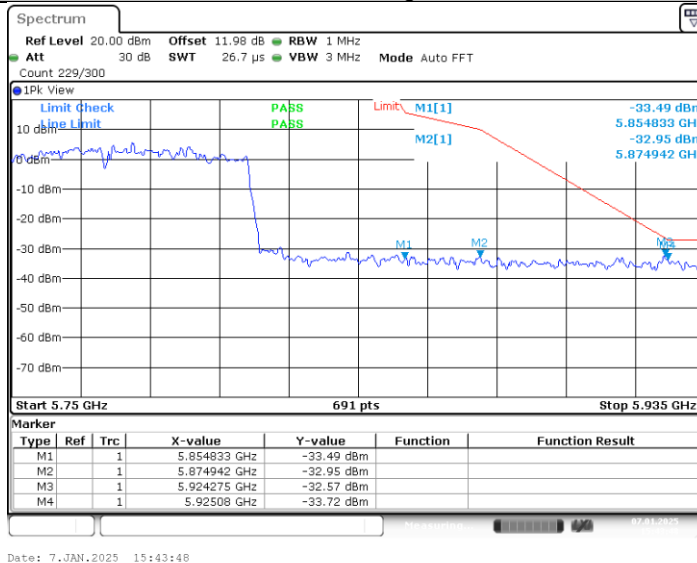
11AC40_Ant1_High_5795



11AC80_Ant1_Low_5775



11AC80_Ant1_High_5775



ABOVE 1000 MHz

Note: All the modes have been tested and recorded worst mode in the report.

UNII-1

| TX A Channel 36 / 5180 MHz | | | | | | | | | |
|----------------------------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10651 | H | 43.48 | --- | 9.03 | 52.51 | --- | 74 | 54 | -21.49 |
| 15523 | H | 39.63 | --- | 9.87 | 49.50 | --- | 74 | 54 | -24.50 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10355 | V | 44.92 | --- | 9.03 | 53.95 | --- | 74 | 54 | -20.05 |
| 15542 | V | 39.31 | --- | 9.88 | 49.19 | --- | 74 | 54 | -24.81 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |
| TX A Channel 40 / 5200 MHz | | | | | | | | | |
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10601 | H | 44.72 | --- | 9.09 | 53.81 | --- | 74 | 54 | -20.19 |
| 15600 | H | 42.01 | --- | 9.91 | 51.92 | --- | 74 | 54 | -22.08 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10601 | V | 44.05 | --- | 9.09 | 53.14 | --- | 74 | 54 | -20.86 |
| 15600 | V | 41.85 | --- | 9.91 | 51.76 | --- | 74 | 54 | -22.24 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |
| TX A Channel 48 / 5240 MHz | | | | | | | | | |
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10680 | H | 44.01 | --- | 9.24 | 53.25 | --- | 74 | 54 | -20.75 |
| 15722 | H | 42.63 | --- | 10.01 | 52.64 | --- | 74 | 54 | -21.36 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10680 | V | 44.02 | --- | 9.24 | 53.26 | --- | 74 | 54 | -20.74 |
| 15722 | V | 42.74 | --- | 10.01 | 52.75 | --- | 74 | 54 | -21.25 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |

UNII-2A

| TX A Channel 52 / 5260 MHz | | | | | | | | | |
|----------------------------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10621 | H | 44.38 | --- | 9.44 | 53.82 | --- | 74 | 54 | -20.18 |
| 15781 | H | 43.02 | --- | 10.12 | 53.14 | --- | 74 | 54 | -20.86 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10623 | V | 43.90 | --- | 9.46 | 53.36 | --- | 74 | 54 | -20.64 |
| 15782 | V | 43.54 | --- | 10.13 | 53.67 | --- | 74 | 54 | -20.33 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |
| TX A Channel 56 / 5280 MHz | | | | | | | | | |
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10661 | H | 43.53 | --- | 9.51 | 53.04 | --- | 74 | 54 | -20.96 |
| 15842 | H | 43.11 | --- | 10.51 | 53.62 | --- | 74 | 54 | -20.38 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10661 | V | 43.74 | --- | 9.51 | 53.25 | --- | 74 | 54 | -20.75 |
| 15841 | V | 43.36 | --- | 10.49 | 53.85 | --- | 74 | 54 | -20.15 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |
| TX A Channel 64 / 5320 MHz | | | | | | | | | |
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10641 | H | 42.68 | --- | 9.63 | 52.31 | --- | 74 | 54 | -21.69 |
| 15961 | H | 42.02 | --- | 11.25 | 53.27 | --- | 74 | 54 | -20.73 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10642 | V | 43.05 | --- | 9.63 | 52.68 | --- | 74 | 54 | -21.32 |
| 15959 | V | 42.28 | --- | 11.23 | 53.51 | --- | 74 | 54 | -20.49 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |

UNII-2C

| TX A Channel 100 / 5500 MHz | | | | | | | | | |
|-----------------------------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10651 | H | 44.15 | --- | 9.15 | 53.30 | --- | 74 | 54 | -20.70 |
| 15799 | H | 42.71 | --- | 10.25 | 52.96 | --- | 74 | 54 | -21.04 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10758 | V | 43.10 | --- | 9.99 | 53.09 | --- | 74 | 54 | -20.91 |
| 15836 | V | 42.03 | --- | 10.95 | 52.98 | --- | 74 | 54 | -21.02 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |
| TX A Channel 116 / 5580 MHz | | | | | | | | | |
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10793 | H | 41.35 | --- | 10.01 | 51.36 | --- | 74 | 54 | -22.64 |
| 15902 | H | 41.41 | --- | 10.79 | 52.20 | --- | 74 | 54 | -21.80 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10963 | V | 43.93 | --- | 10.05 | 53.98 | --- | 74 | 54 | -20.02 |
| 15991 | V | 40.41 | --- | 11.93 | 52.34 | --- | 74 | 54 | -21.66 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |
| TX A Channel 140 / 5700 MHz | | | | | | | | | |
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 10789 | H | 43.96 | --- | 10.00 | 53.96 | --- | 74 | 54 | -20.04 |
| 16199 | H | 40.78 | --- | 12.04 | 52.82 | --- | 74 | 54 | -21.18 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 10853 | V | 42.80 | --- | 10.12 | 52.92 | --- | 74 | 54 | -21.08 |
| 16014 | V | 42.00 | --- | 11.32 | 53.32 | --- | 74 | 54 | -20.68 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |

UNII-3

| TX A Channel 149 / 5745 MHz | | | | | | | | | |
|-----------------------------|-----------------|------------------------|----------------------|-------------------|------------------|----------------|------------------------|----------------------|----------------|
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 11491 | H | 43.35 | --- | 9.81 | 53.16 | --- | 74 | 54 | -20.84 |
| 17736 | H | 40.72 | --- | 12.96 | 53.68 | --- | 74 | 54 | -20.32 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 11493 | V | 42.73 | --- | 9.81 | 52.54 | --- | 74 | 54 | -21.46 |
| 17735 | V | 40.40 | --- | 12.95 | 53.35 | --- | 74 | 54 | -20.65 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |
| TX A Channel 153 / 5765 MHz | | | | | | | | | |
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 11531 | H | 43.30 | --- | 9.91 | 53.21 | --- | 74 | 54 | -20.79 |
| 17796 | H | 39.49 | --- | 13.21 | 52.70 | --- | 74 | 54 | -21.30 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 11532 | V | 43.80 | --- | 9.92 | 53.72 | --- | 74 | 54 | -20.28 |
| 17797 | V | 40.46 | --- | 13.22 | 53.68 | --- | 74 | 54 | -20.32 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |
| TX A Channel 165/ 5825 MHz | | | | | | | | | |
| Frequency | Ant.Pol. H/V | Peak reading (dBuV) | AV reading (dBuV) | Correction Factor | Emission Level | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) |
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 11651 | H | 43.75 | --- | 10.01 | 53.76 | --- | 74 | 54 | -20.24 |
| 17878 | H | 39.07 | --- | 14.01 | 53.08 | --- | 74 | 54 | -20.92 |
| --- | H | --- | --- | --- | --- | --- | --- | --- | --- |
| 11649 | V | 42.85 | --- | 9.98 | 52.83 | --- | 74 | 54 | -21.17 |
| 17777 | V | 39.51 | --- | 13.99 | 53.50 | --- | 74 | 54 | -20.50 |
| --- | V | --- | --- | --- | --- | --- | --- | --- | --- |

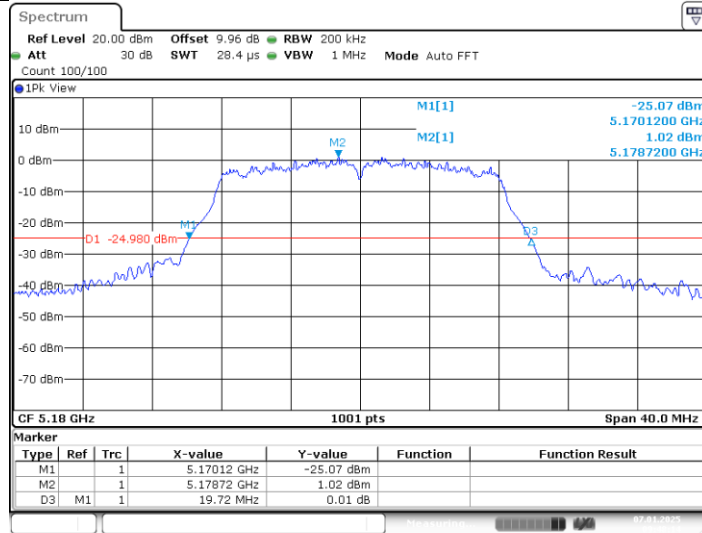
Notes:

- 1). Radiated emissions measured in frequency range from 9 KHz-10th harmonic or 40GHz (which is less) were made with an instrument using Peak detector mode.
- 2). 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.
- 3). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit

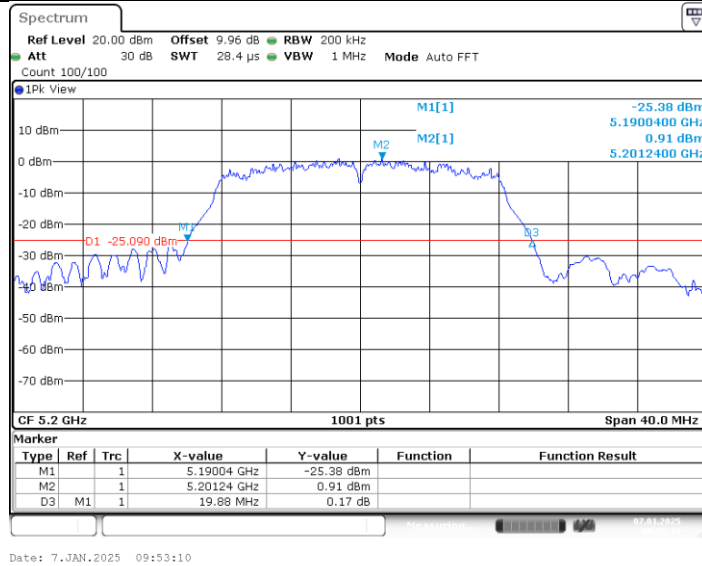
APPENDIX E - BANDWIDTH

| TestMode | Antenna | Freq(MHz) | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|-----------|----------------|---------|---------|------------|---------|
| 11A | Ant1 | 5180 | 19.72 | 5170.12 | 5189.84 | --- | --- |
| | | 5200 | 19.88 | 5190.04 | 5209.92 | --- | --- |
| | | 5240 | 19.84 | 5230.08 | 5249.92 | --- | --- |
| | | 5260 | 19.76 | 5250.16 | 5269.92 | --- | --- |
| | | 5300 | 19.96 | 5290.04 | 5310.00 | --- | --- |
| | | 5320 | 19.92 | 5309.88 | 5329.80 | --- | --- |
| | | 5500 | 19.96 | 5490.00 | 5509.96 | --- | --- |
| | | 5600 | 19.76 | 5590.12 | 5609.88 | --- | --- |
| | | 5700 | 19.64 | 5690.20 | 5709.84 | --- | --- |
| | | 5745 | 19.76 | 5735.20 | 5754.96 | --- | --- |
| | | 5785 | 19.88 | 5775.00 | 5794.88 | --- | --- |
| 11N20 | Ant1 | 5825 | 20.00 | 5815.04 | 5835.04 | --- | --- |
| | | 5180 | 19.80 | 5170.12 | 5189.92 | --- | --- |
| | | 5200 | 19.92 | 5190.08 | 5210.00 | --- | --- |
| | | 5240 | 19.96 | 5229.88 | 5249.84 | --- | --- |
| | | 5260 | 20.04 | 5249.92 | 5269.96 | --- | --- |
| | | 5300 | 20.00 | 5290.00 | 5310.00 | --- | --- |
| | | 5320 | 19.80 | 5310.08 | 5329.88 | --- | --- |
| | | 5500 | 20.04 | 5490.04 | 5510.08 | --- | --- |
| | | 5600 | 20.04 | 5589.88 | 5609.92 | --- | --- |
| | | 5700 | 19.80 | 5690.12 | 5709.92 | --- | --- |
| | | 5745 | 19.92 | 5734.92 | 5754.84 | --- | --- |
| 11N40 | Ant1 | 5785 | 20.00 | 5774.92 | 5794.92 | --- | --- |
| | | 5825 | 19.88 | 5814.96 | 5834.84 | --- | --- |
| | | 5190 | 40.88 | 5169.68 | 5210.56 | --- | --- |
| | | 5230 | 40.48 | 5209.76 | 5250.24 | --- | --- |
| | | 5270 | 39.84 | 5250.00 | 5289.84 | --- | --- |
| | | 5310 | 40.08 | 5290.16 | 5330.24 | --- | --- |
| | | 5510 | 41.04 | 5489.60 | 5530.64 | --- | --- |
| | | 5590 | 39.84 | 5570.08 | 5609.92 | --- | --- |
| | | 5670 | 40.64 | 5649.76 | 5690.40 | --- | --- |
| | | 5755 | 40.48 | 5734.52 | 5775.00 | --- | --- |
| | | 5795 | 40.16 | 5774.92 | 5815.08 | --- | --- |
| 11AC20 | Ant1 | 5180 | 19.80 | 5170.16 | 5189.96 | --- | --- |
| | | 5200 | 20.12 | 5189.96 | 5210.08 | --- | --- |
| | | 5240 | 20.12 | 5229.96 | 5250.08 | --- | --- |
| | | 5260 | 19.96 | 5250.08 | 5270.04 | --- | --- |
| | | 5300 | 19.92 | 5290.12 | 5310.04 | --- | --- |
| | | 5320 | 20.00 | 5309.96 | 5329.96 | --- | --- |
| | | 5500 | 20.00 | 5490.04 | 5510.04 | --- | --- |
| | | 5600 | 20.08 | 5589.92 | 5610.00 | --- | --- |
| | | 5700 | 19.88 | 5690.16 | 5710.04 | --- | --- |
| | | 5745 | 19.84 | 5735.16 | 5755.00 | --- | --- |
| | | 5785 | 20.04 | 5775.00 | 5795.04 | --- | --- |
| 11AC40 | Ant1 | 5825 | 19.92 | 5815.00 | 5834.92 | --- | --- |
| | | 5190 | 39.92 | 5170.40 | 5210.32 | --- | --- |
| | | 5230 | 40.08 | 5209.92 | 5250.00 | --- | --- |
| | | 5270 | 40.32 | 5250.00 | 5290.32 | --- | --- |
| | | 5310 | 40.40 | 5289.60 | 5330.00 | --- | --- |
| | | 5510 | 40.72 | 5489.92 | 5530.64 | --- | --- |
| | | 5590 | 39.92 | 5570.08 | 5610.00 | --- | --- |
| | | 5670 | 39.92 | 5650.08 | 5690.00 | --- | --- |
| | | 5755 | 40.32 | 5734.84 | 5775.16 | --- | --- |
| | | 5795 | 40.24 | 5775.24 | 5815.48 | --- | --- |
| 11AC80 | Ant1 | 5210 | 80.64 | 5170.00 | 5250.64 | --- | --- |
| | | 5290 | 80.80 | 5250.00 | 5330.80 | --- | --- |
| | | 5530 | 80.80 | 5489.20 | 5570.00 | --- | --- |
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| | | 5775 | 80.80 | 5735.00 | 5815.80 | --- | --- |

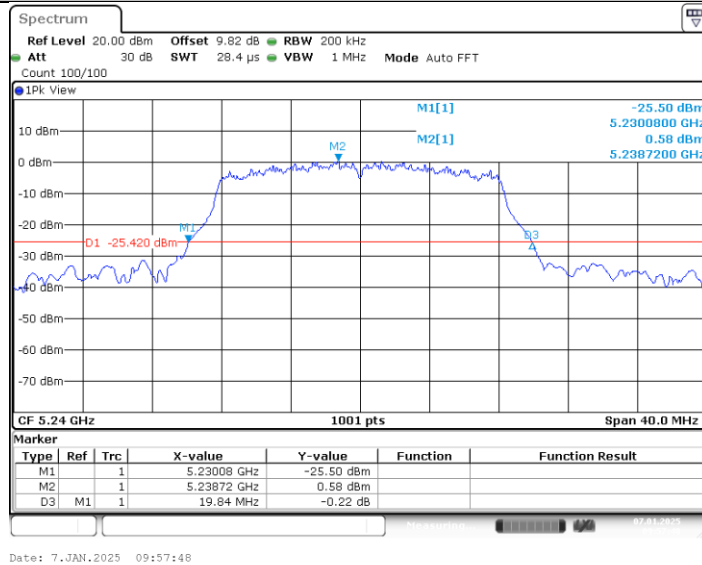
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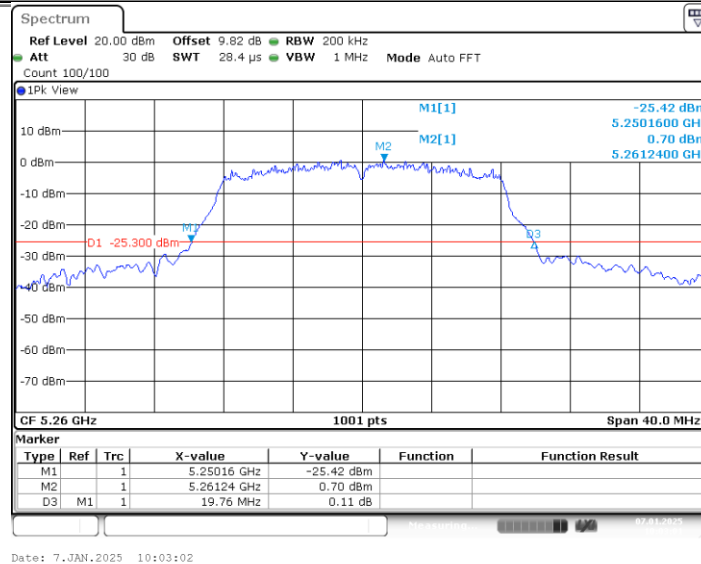
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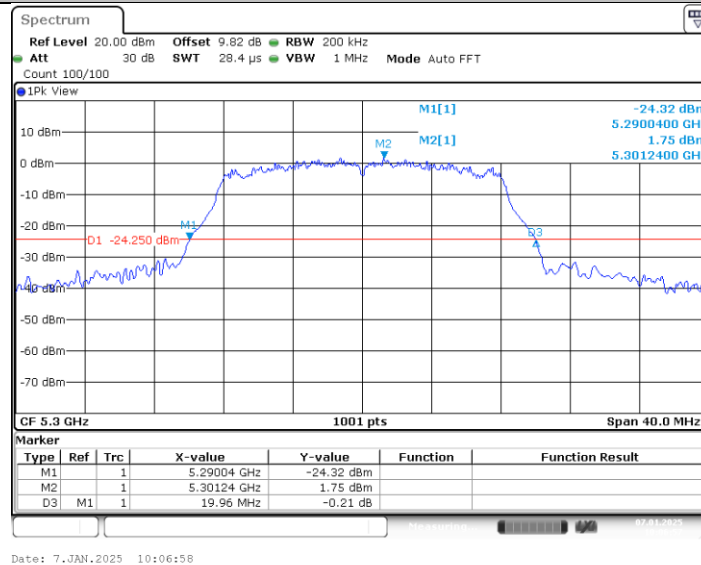
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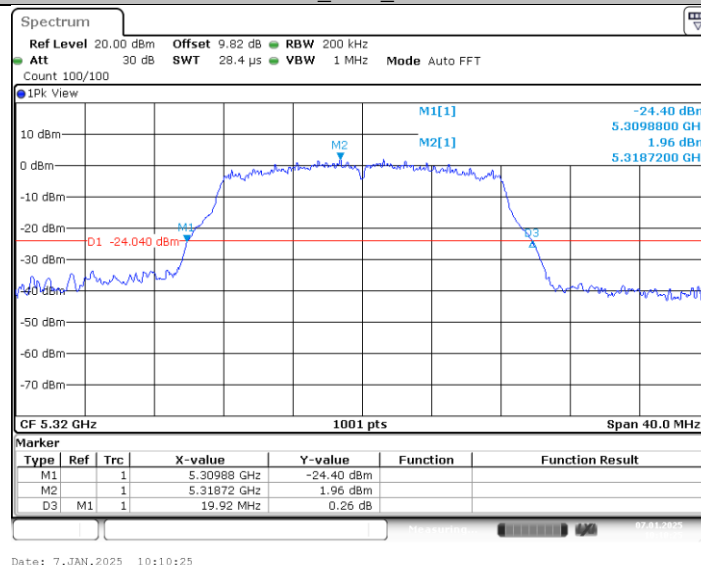
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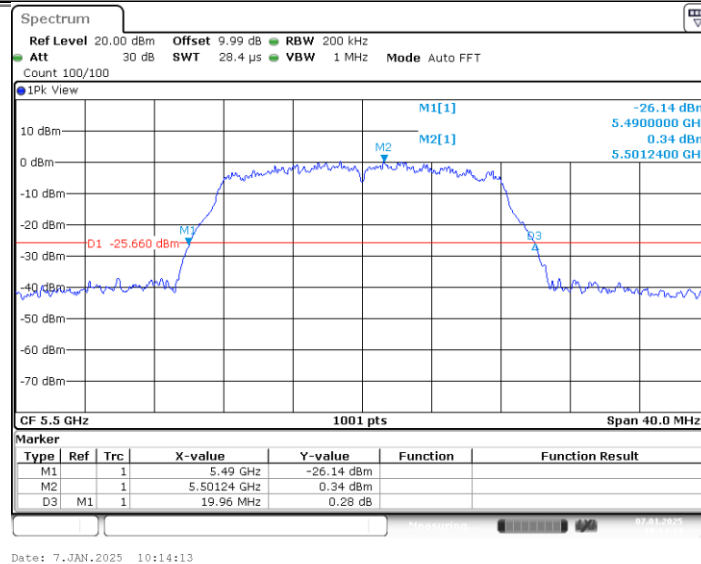
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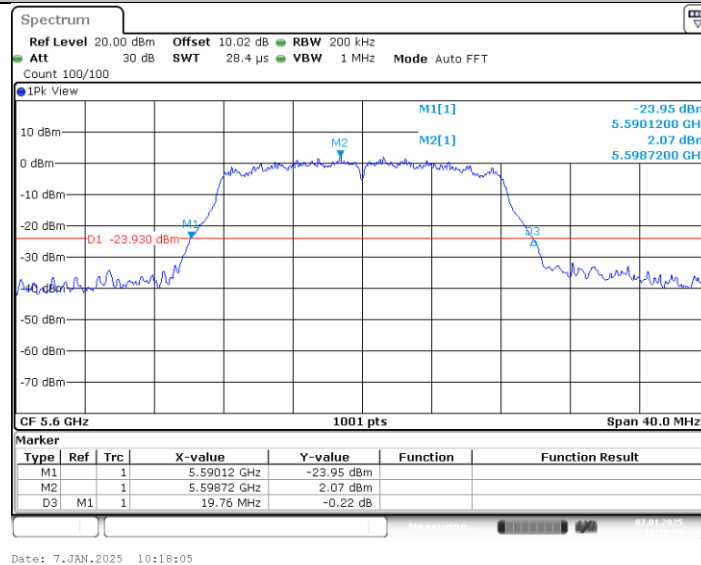
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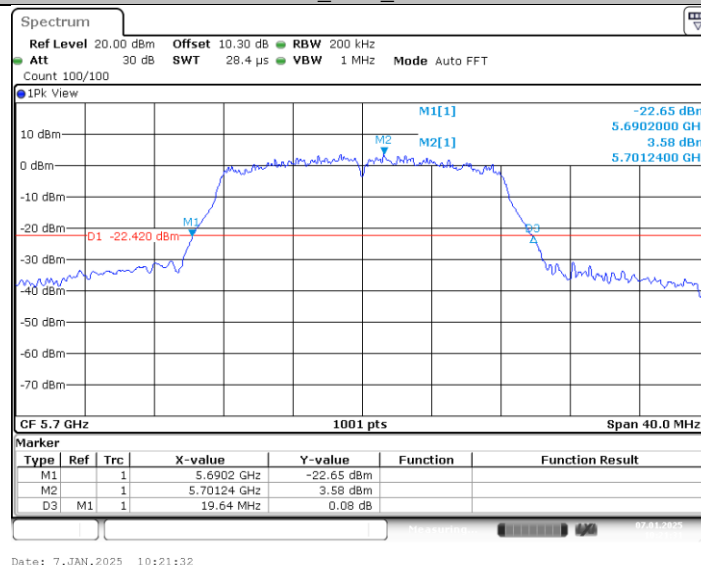
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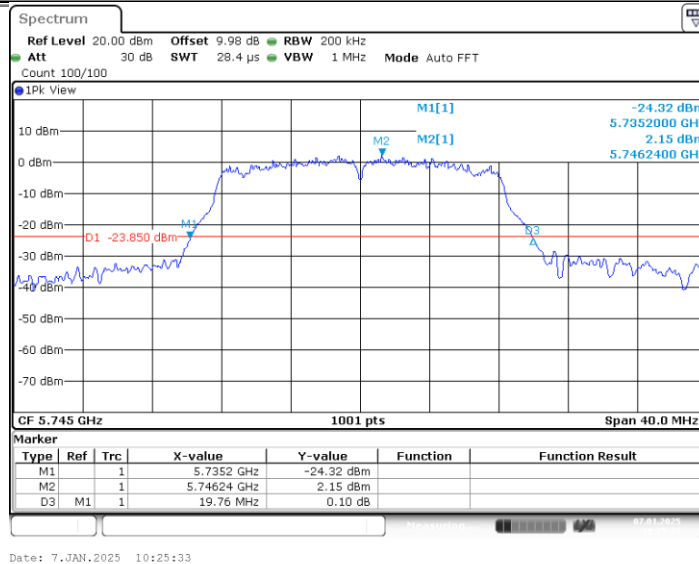
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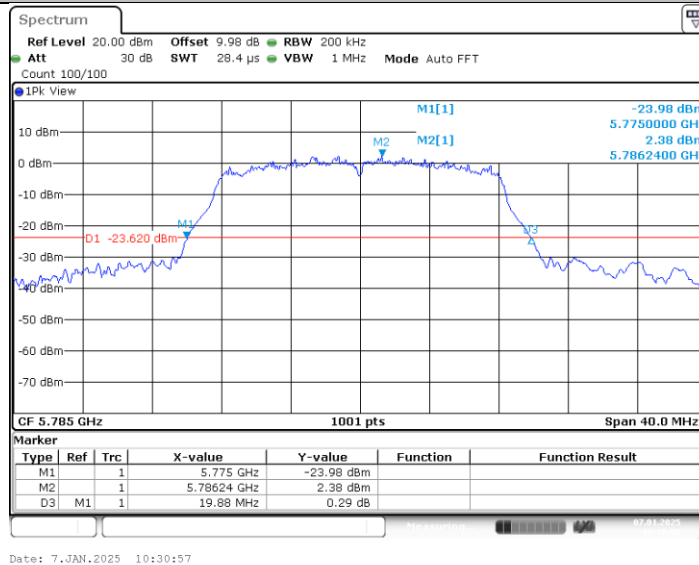
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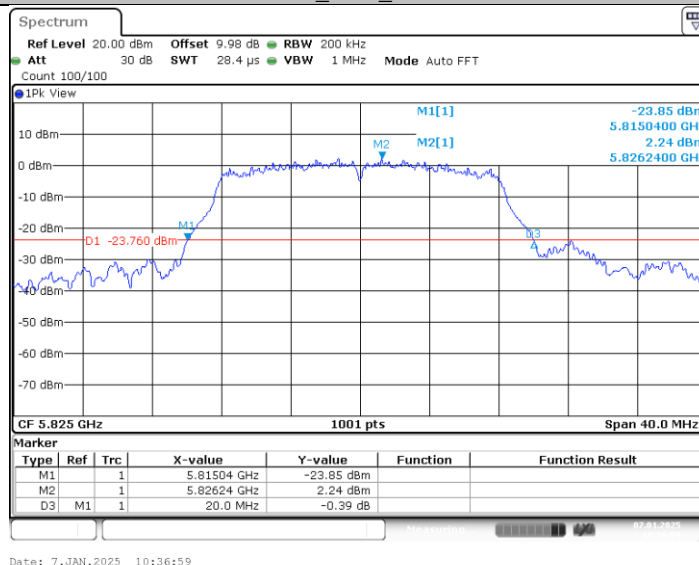
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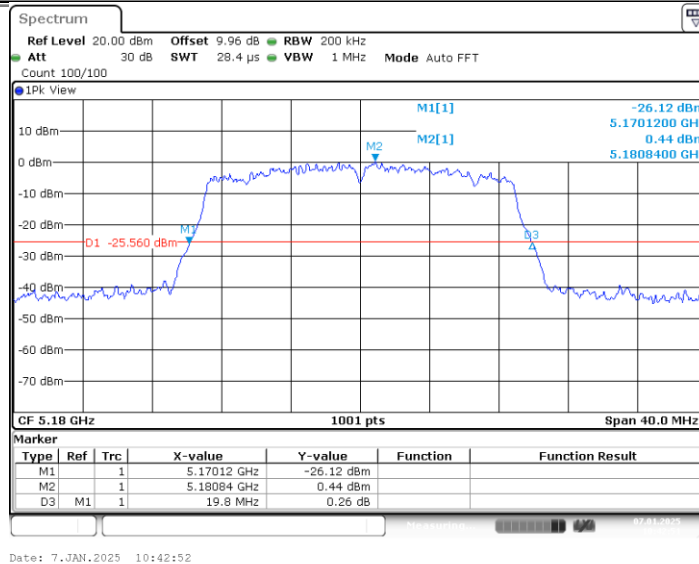
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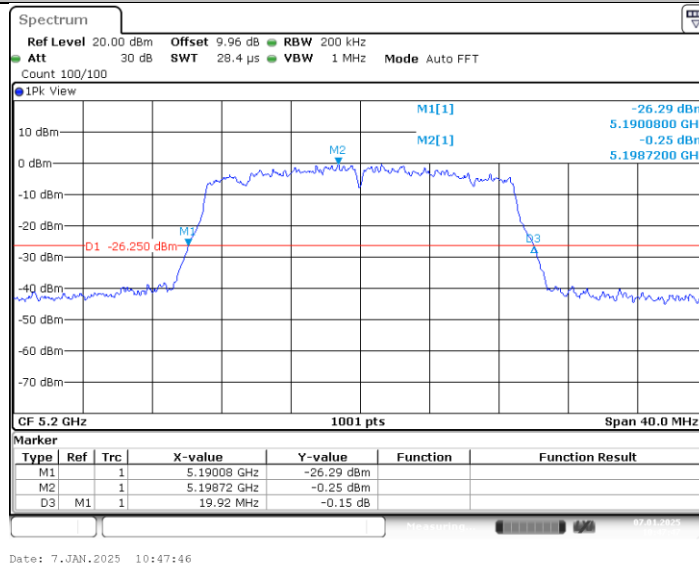
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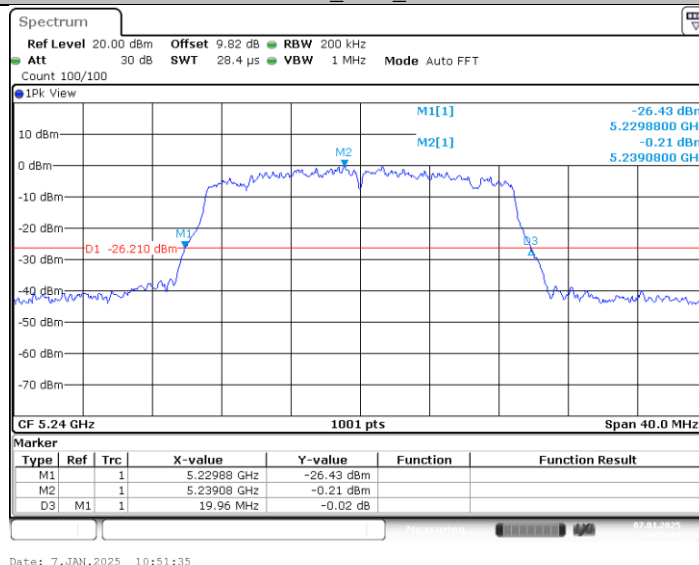
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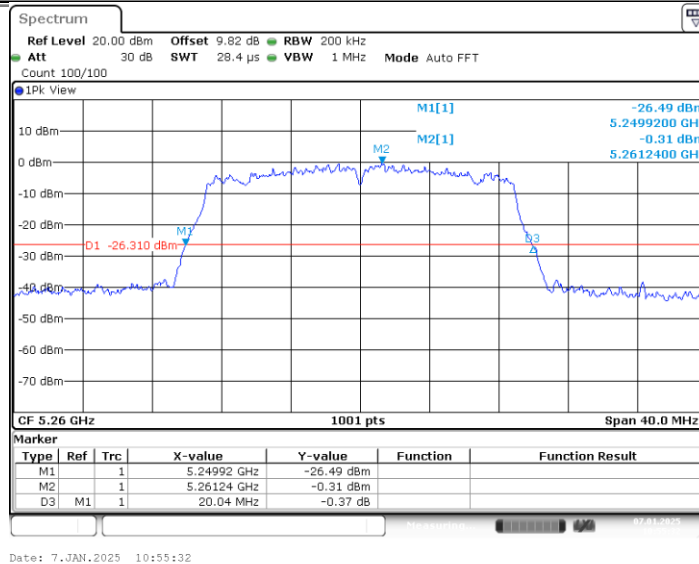
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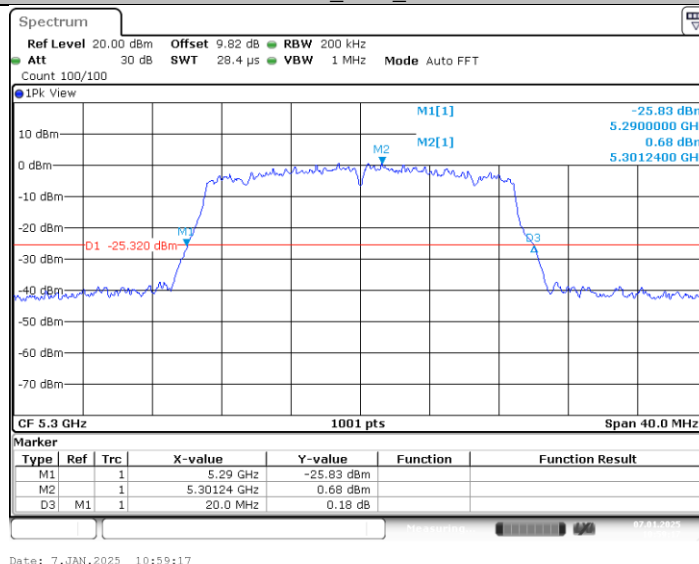
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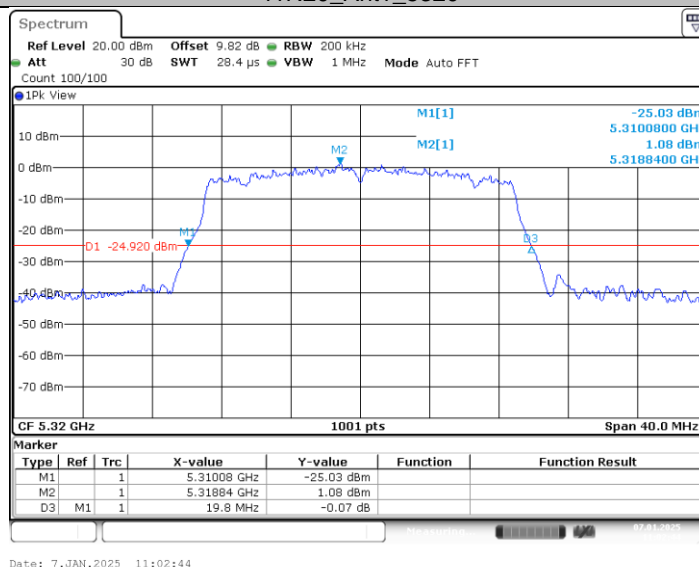
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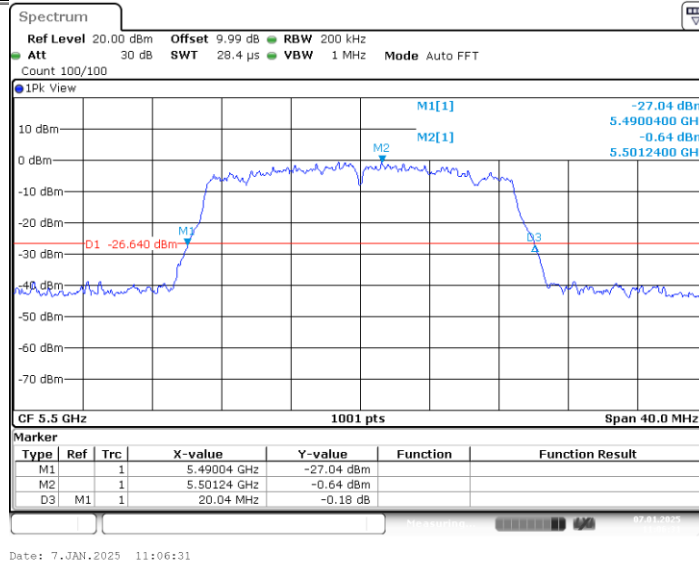
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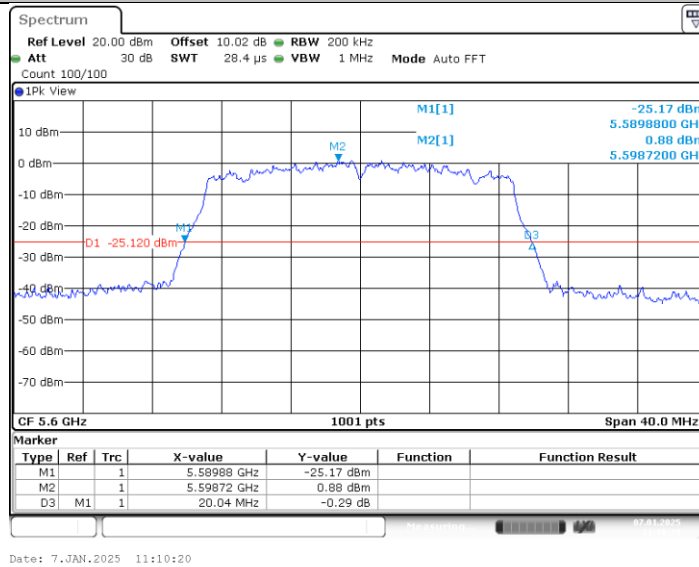
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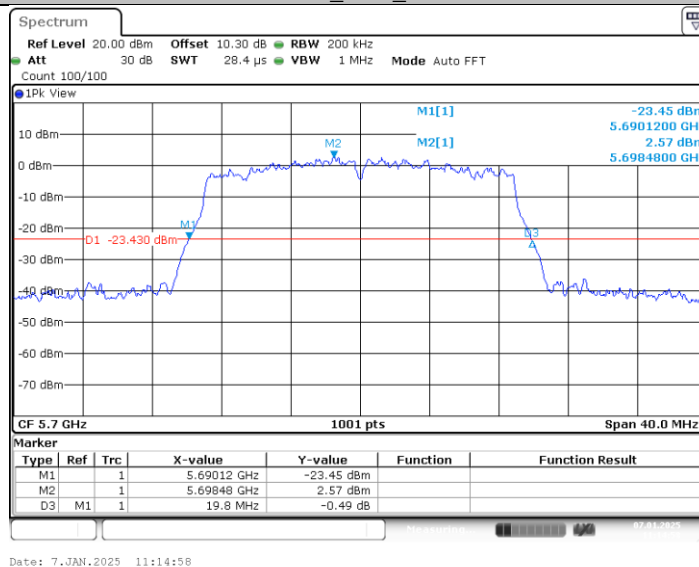
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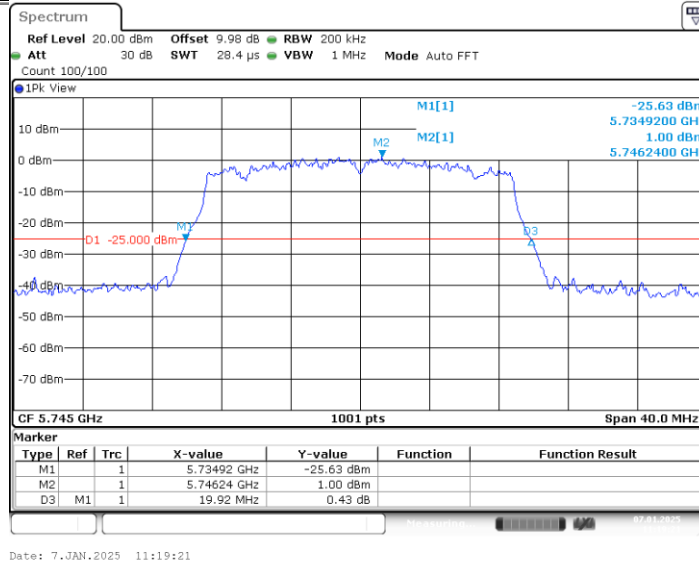
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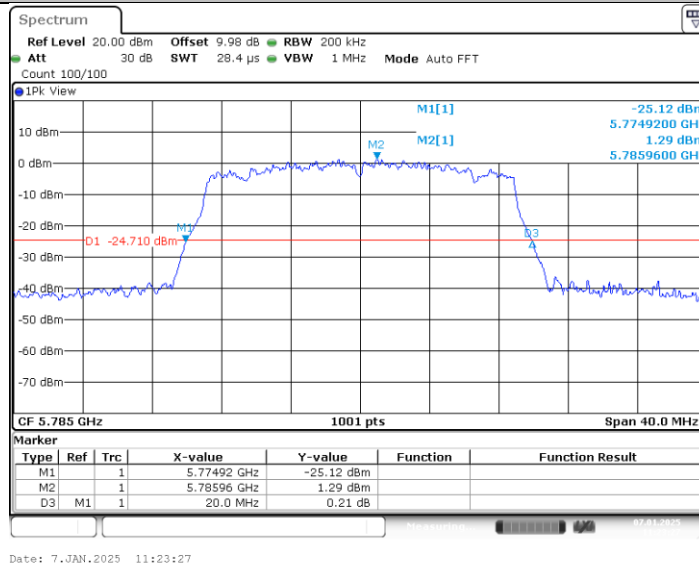
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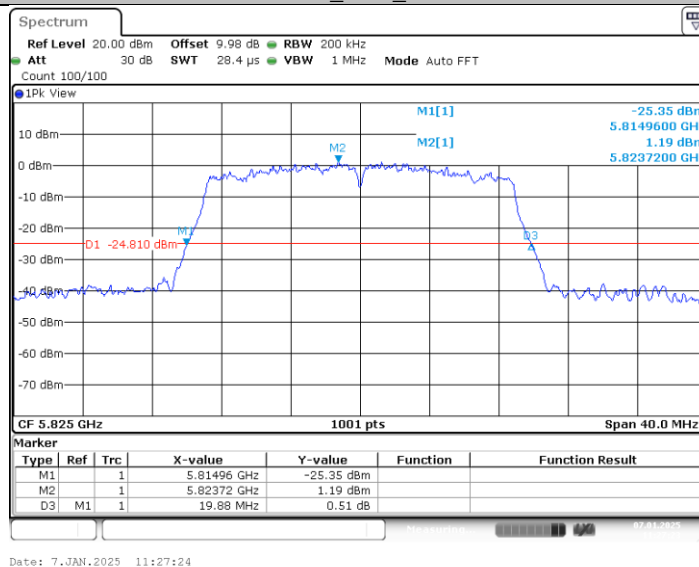
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11N20_Ant1_5785



11N20_Ant1_5825



11N40_Ant1_5190