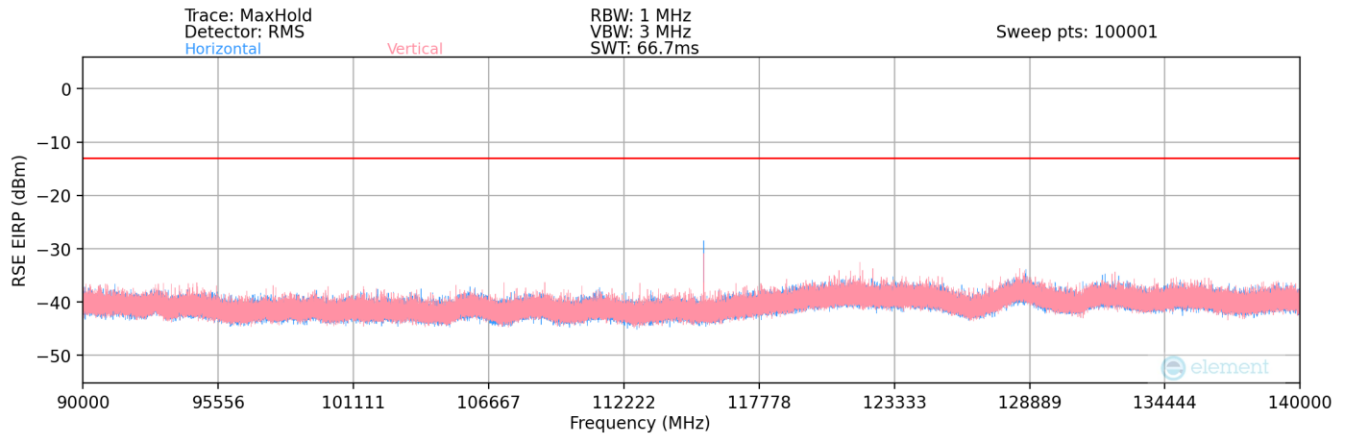


90GHz - 140GHz



Plot 7-156. M patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
111076.62	Low	50	2Tx	QPSK	H	100	274	-29.60	-13.00	-16.60
115500.35	Mid	50	2Tx	QPSK	H	86	275	-27.70	-13.00	-14.70
119926.32	High	50	2Tx	QPSK	H	228	105	-34.43	-13.00	-21.43

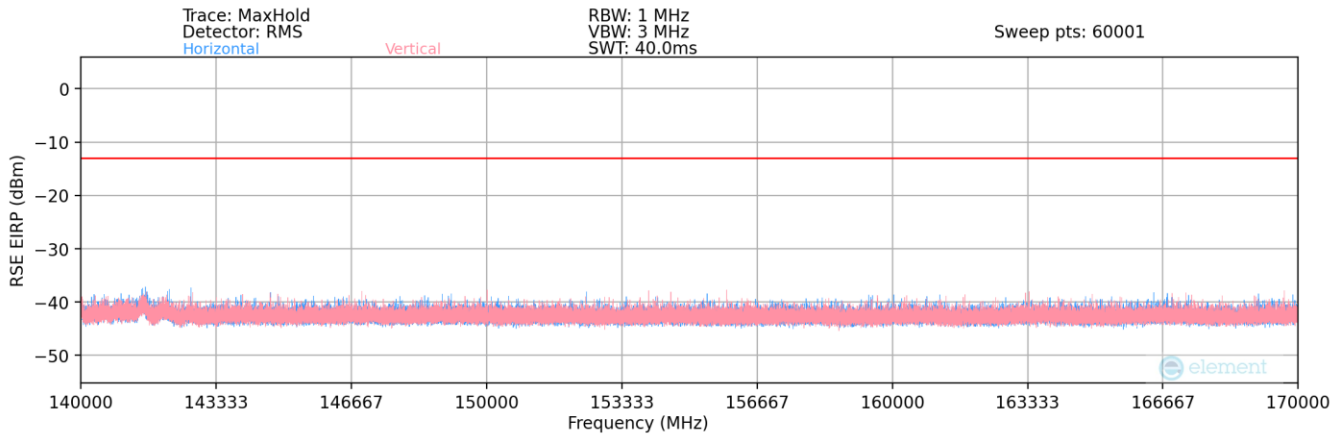
Table 7-66. M patch - n260 Radiated Spurious Emissions Table (90GHz - 140GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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140GHz - 170GHz



Plot 7-157. M patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
148092.33	Low	50	2Tx	QPSK	H	-	-	-47.50	-13.00	-34.50
154009.68	Mid	50	2Tx	QPSK	H	-	-	-47.98	-13.00	-34.98
159911.40	High	50	2Tx	QPSK	H	-	-	-47.71	-13.00	-34.71

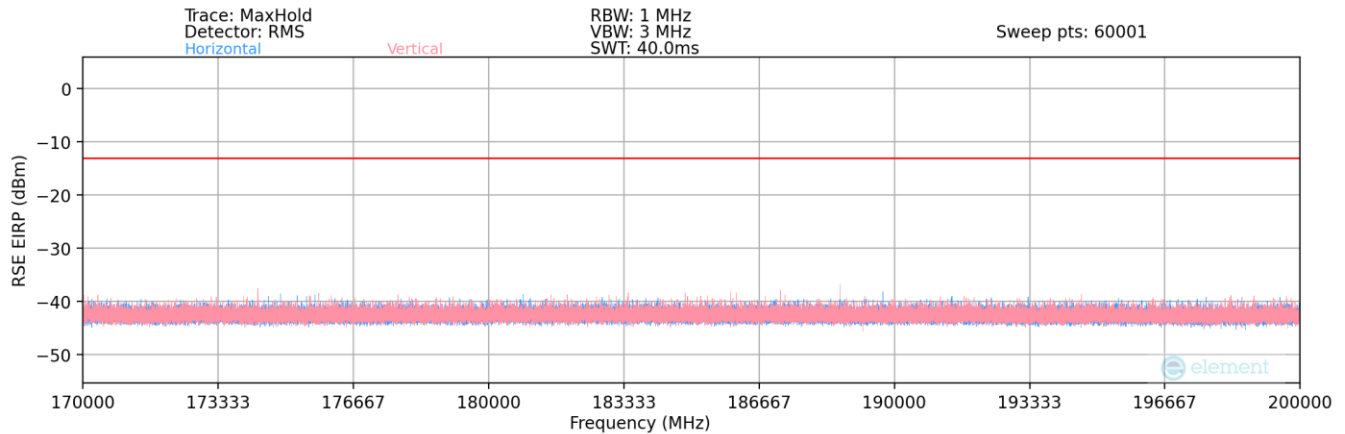
Table 7-67. M patch - n260 Radiated Spurious Emissions Table (140GHz - 170GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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170GHz - 200GHz



Plot 7-158. M patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
185124.78	Low	50	2Tx	QPSK	H	-	-	-47.53	-13.00	-34.53
192497.66	Mid	50	2Tx	QPSK	H	-	-	-47.53	-13.00	-34.53
199883.04	High	50	2Tx	QPSK	H	-	-	-47.91	-13.00	-34.91

Table 7-68. M patch - n260 Radiated Spurious Emissions Table (170GHz - 200GHz)

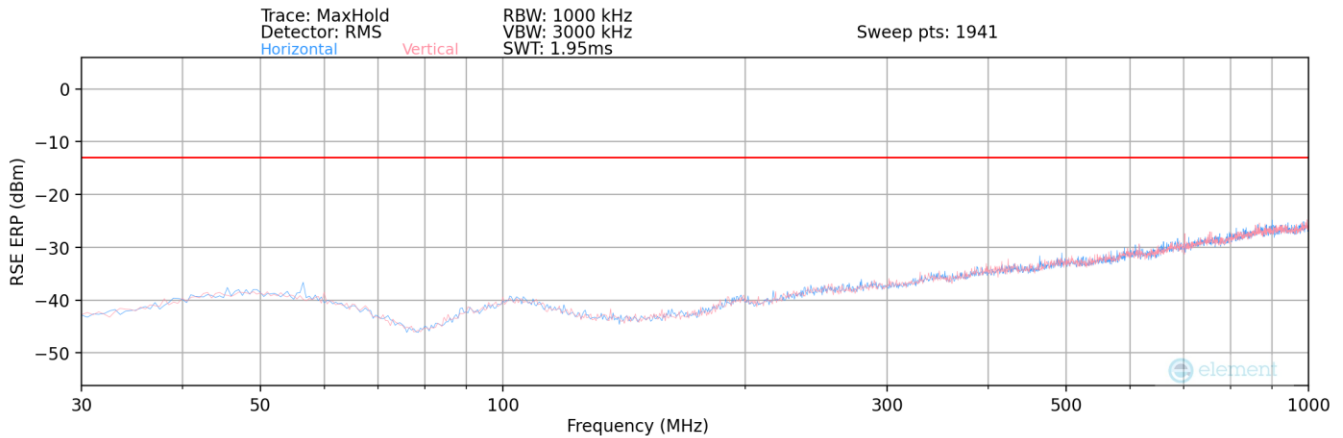
Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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Band n260 – N patch

30MHz - 1GHz



Plot 7-159. N patch - n260 Radiated Spurious Plot (NR-DC anchor n2)

Spurious Emissions ERP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE ERP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE ERP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 - 2.15 \text{ (dB)}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
994.36	Low	50	2Tx	QPSK	V	-	-	-34.45	-13.00	-21.45
909.24	Mid	50	2Tx	QPSK	V	-	-	-35.25	-13.00	-22.25
997.85	High	50	2Tx	QPSK	V	-	-	-34.48	-13.00	-21.48

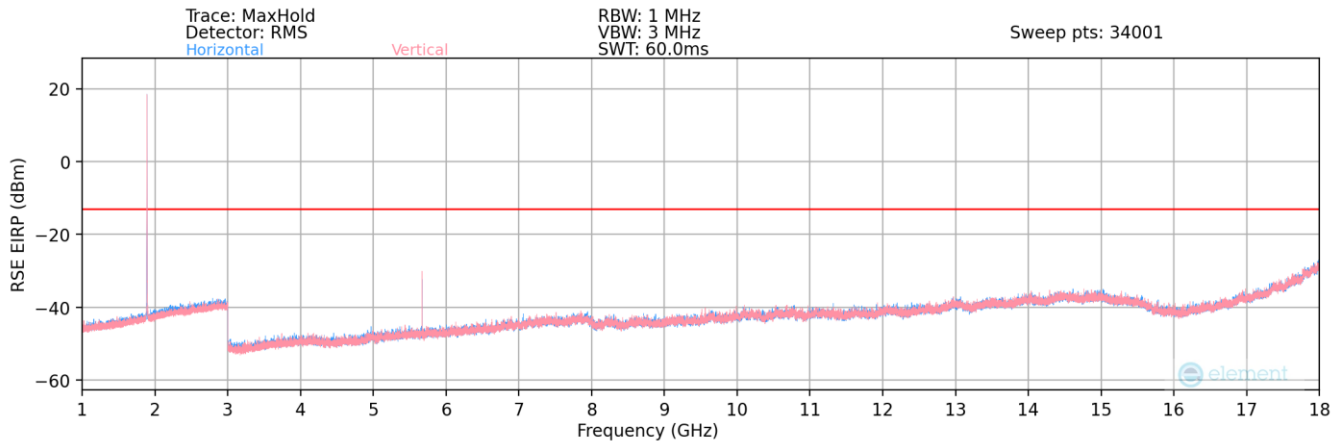
Table 7-69. N patch - n260 Radiated Spurious Emissions Table (NR-DC anchor n2, 30MHz - 1GHz)

Notes

The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

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1GHz - 18GHz



Plot 7-160. N patch - n260 Radiated Spurious Plot (NR-DC anchor n2)

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
17223.30	Low	50	2Tx	QPSK	V	-	-	-49.74	-13.00	-36.74
17121.40	Mid	50	2Tx	QPSK	V	-	-	-49.83	-13.00	-36.83
17113.40	High	50	2Tx	QPSK	V	-	-	-49.97	-13.00	-36.97

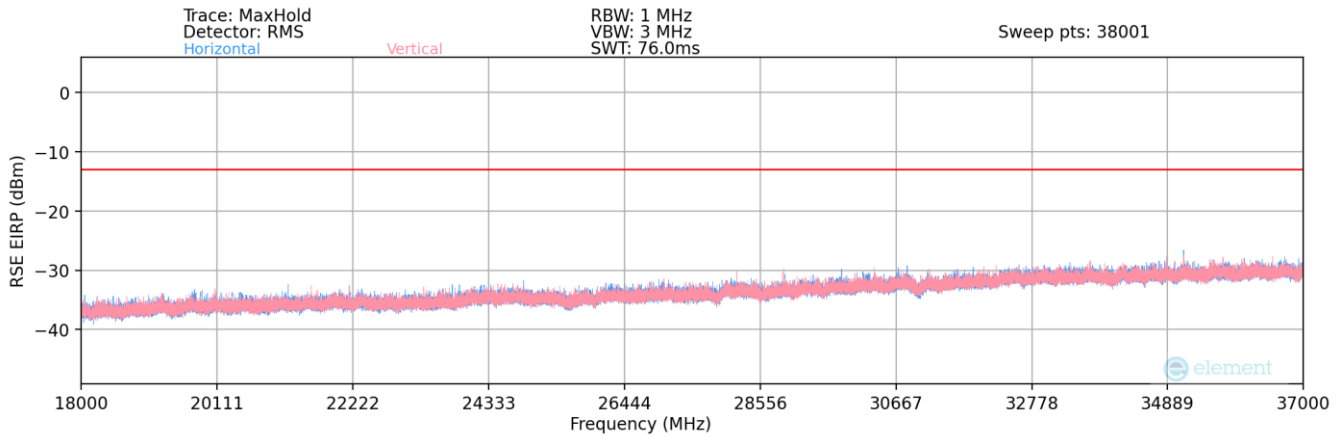
Table 7-70. N patch - n260 Radiated Spurious Emissions Table (NR-DC anchor n2, 1GHz - 18GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

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18GHz-37GHz



Plot 7-161. N patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
34475.02	Low	50	2Tx	QPSK	H	-	-	-33.66	-13.00	-20.66
34893.21	Low	50	2Tx	QPSK	H	-	-	-32.99	-13.00	-19.99
35895.76	Low	50	2Tx	QPSK	H	-	-	-33.33	-13.00	-20.33
36488.19	Low	50	2Tx	QPSK	H	352	286	-29.45	-13.00	-16.45
37094.14	Mid	50	2Tx	QPSK	H	10	274	-30.08	-13.00	-17.08
37501.53	Mid	50	2Tx	QPSK	H	6	270	-30.76	-13.00	-17.76
37911.57	Mid	50	2Tx	QPSK	H	358	274	-22.46	-13.00	-9.46
38271.66	Mid	50	2Tx	QPSK	H	353	274	-28.75	-13.00	-15.75
37031.79	High	50	2Tx	QPSK	H	9	284	-27.44	-13.00	-14.44
37620.63	High	50	2Tx	QPSK	H	6	285	-22.80	-13.00	-9.80
38209.41	High	50	2Tx	QPSK	H	13	285	-26.83	-13.00	-13.83
39386.84	High	50	2Tx	QPSK	H	6	287	-20.88	-13.00	-7.88

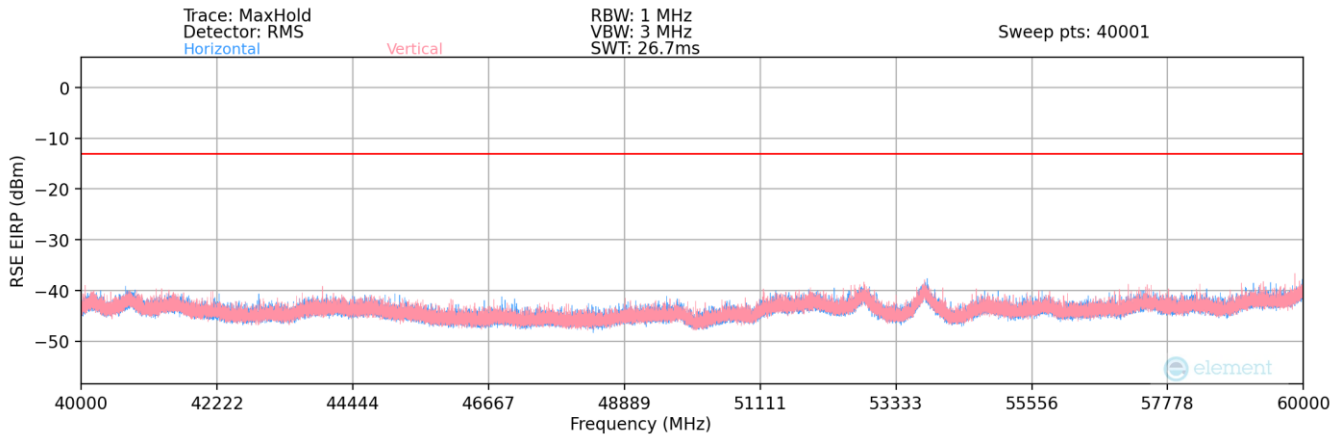
Table 7-71. N patch - n260 Radiated Spurious Emissions Table (NR-DC anchor n2, 1GHz - 18GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter.

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40GHz - 60GHz



Plot 7-162. N patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1.5 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
46015.00	Low	50	2Tx	QPSK	H	-	-	-50.78	-13.00	-37.78
51001.08	Mid	50	2Tx	QPSK	H	-	-	-50.29	-13.00	-37.29
56002.22	High	50	2Tx	QPSK	H	-	-	-49.43	-13.00	-36.43

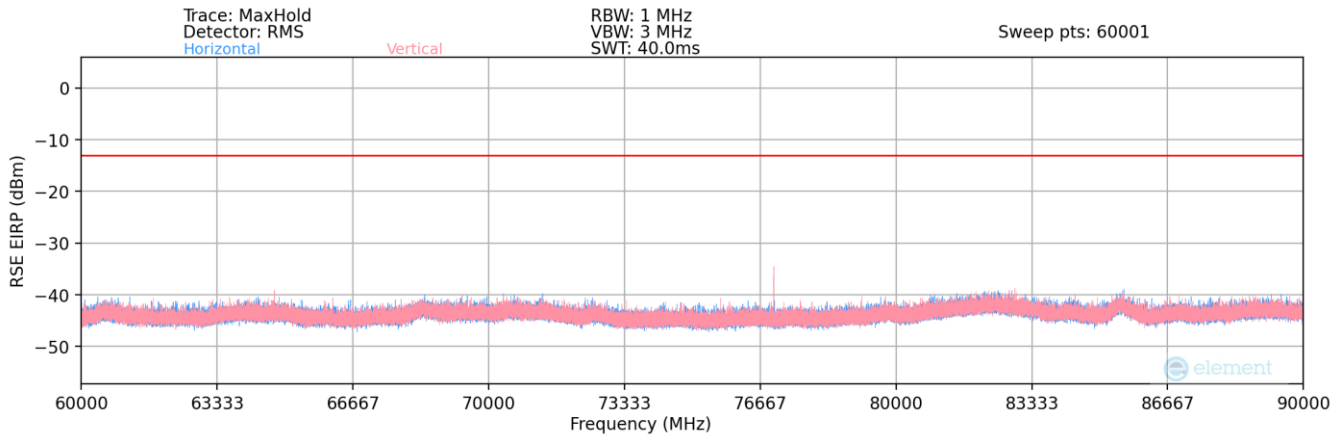
Table 7-72. N patch - n260 Radiated Spurious Emissions Table (40GHz - 60GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1.5 meter.

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60GHz - 90GHz



Plot 7-163. N patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74052.03	Low	50	2Tx	QPSK	H	358	289	-36.44	-13.00	-23.44
77001.93	Mid	50	2Tx	QPSK	V	130	183	-35.41	-13.00	-22.41
79950.54	High	50	2Tx	QPSK	H	11	278	-45.67	-13.00	-32.67

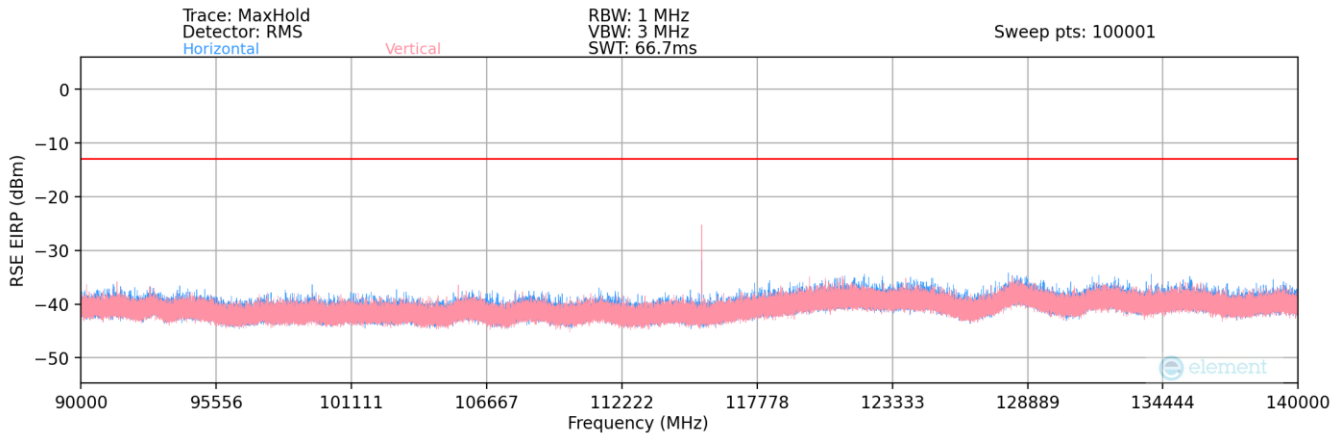
Table 7-73. N patch - n260 Radiated Spurious Emissions Table (60GHz - 90GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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90GHz - 140GHz



Plot 7-164. N patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
111078.03	Low	50	2Tx	QPSK	H	99	192	-28.99	-13.00	-15.99
115500.00	Mid	50	2Tx	QPSK	V	94	210	-24.14	-13.00	-11.14
119927.00	High	50	2Tx	QPSK	H	77	262	-41.05	-13.00	-28.05

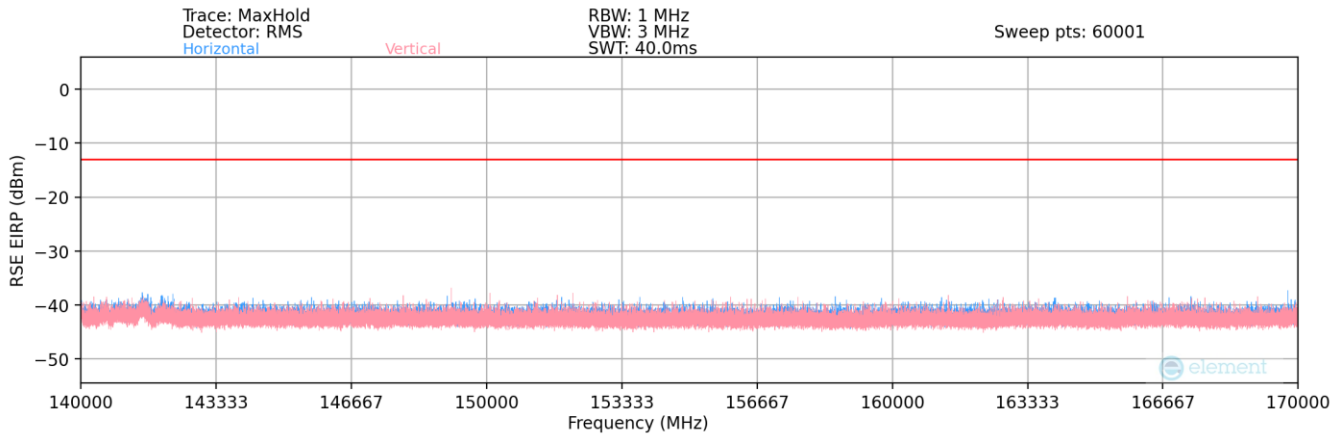
Table 7-74. N patch - n260 Radiated Spurious Emissions Table (90GHz - 140GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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140GHz - 170GHz



Plot 7-165. N patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
148102.77	Low	50	2Tx	QPSK	H	-	-	-47.33	-13.00	-34.33
154001.97	Mid	50	2Tx	QPSK	H	-	-	-47.79	-13.00	-34.79
159904.80	High	50	2Tx	QPSK	H	-	-	-47.78	-13.00	-34.78

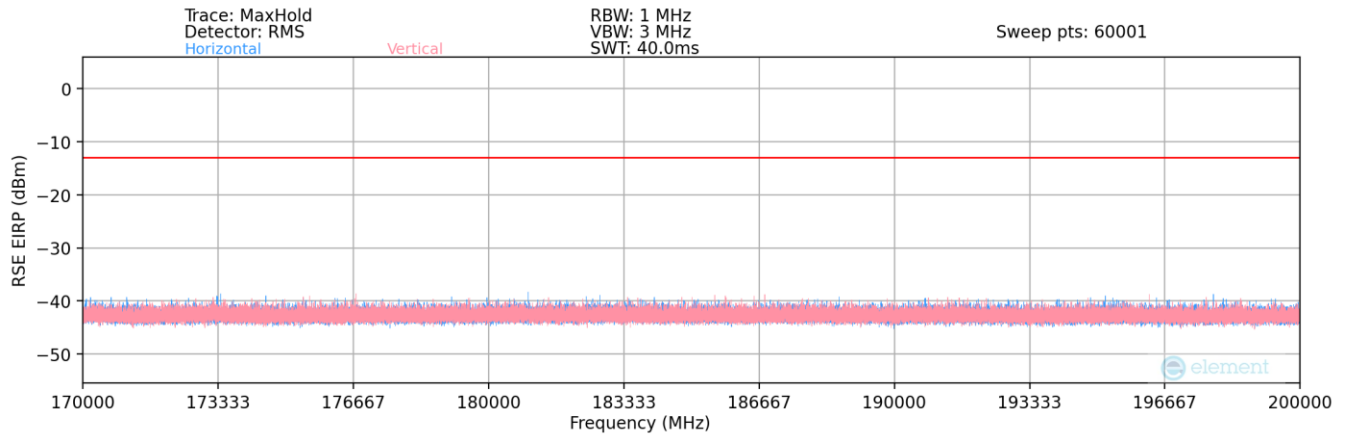
Table 7-75. N patch - n260 Radiated Spurious Emissions Table (140GHz - 170GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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170GHz - 200GHz



Plot 7-166. N patch - n260 Radiated Spurious Plot

Spurious Emissions EIRP Sample Calculation (n260)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8 + \text{Harmonic Mixer Conversion Loss [dB]}$$

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
185135.13	Low	50	2Tx	QPSK	H	-	-	-47.56	-13.00	-34.56
192518.54	Mid	50	2Tx	QPSK	H	-	-	-47.77	-13.00	-34.77
199864.20	High	50	2Tx	QPSK	H	-	-	-47.73	-13.00	-34.73

Table 7-76. N patch - n260 Radiated Spurious Emissions Table (170GHz - 200GHz)

Notes

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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7.5 Band Edge Emissions

Test Overview

All out of band emissions are measured in a radiated setup while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All modulations were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is -13dBm/1MHz. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be -5 dBm/MHz or lower.

Test Procedure Used

ANSI C63.26-2015 Section 5 and ANSI C63.26-2015 Section 6.4
KDB 842590 D01 – Section 4.4.2.4

Test Settings

1. Start and stop frequency were set such that both upper and lower band edges are measured.
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 1MHz
4. VBW \geq 3 x RBW
5. Detector = RMS
6. Number of sweep points \geq 2 x Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.
- 2) Band Edge emissions were measured at a 1 meter distance.
- 3) The spectrum analyzer for each measurement shows an offset value that was determined using the measurement antenna factor, cable loss, far field measurement distance. A sample calculation is shown on the following page.
- 4) This device supports transmission of H-polarized and V-polarized beams from the antenna array in both CP-OFDM and DFT-s-OFDM transmission schemes. SISO and MIMO operation is also supported for some configurations. As part of the testing, all modes were fully investigated and only the worst case has been included in this report.

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V1.0

- 5) All combinations of 1CC, 2CC, 3CC and 4CC were fully investigated, and only the worst case has been included in this report.
- 6) All 2CC, 3CC and 4CC cases were investigated with PCC prioritization feature, which has the higher power PCC at the band edge for the worst case.
- 7) Unless otherwise specified, the radiated band edge plots in this section display the worst case EIRP measurements for the indicated bandwidth–component carrier configuration.
- 8) The plots in this section that display Total Radiated Power (TRP) were obtained from measurements that were performed in accordance with the guidance of Section 4.4.2.4 of KDB 842590 D01 for the Spherical Method.

Sample Analyzer Offset Calculation (at 27.5GHz)

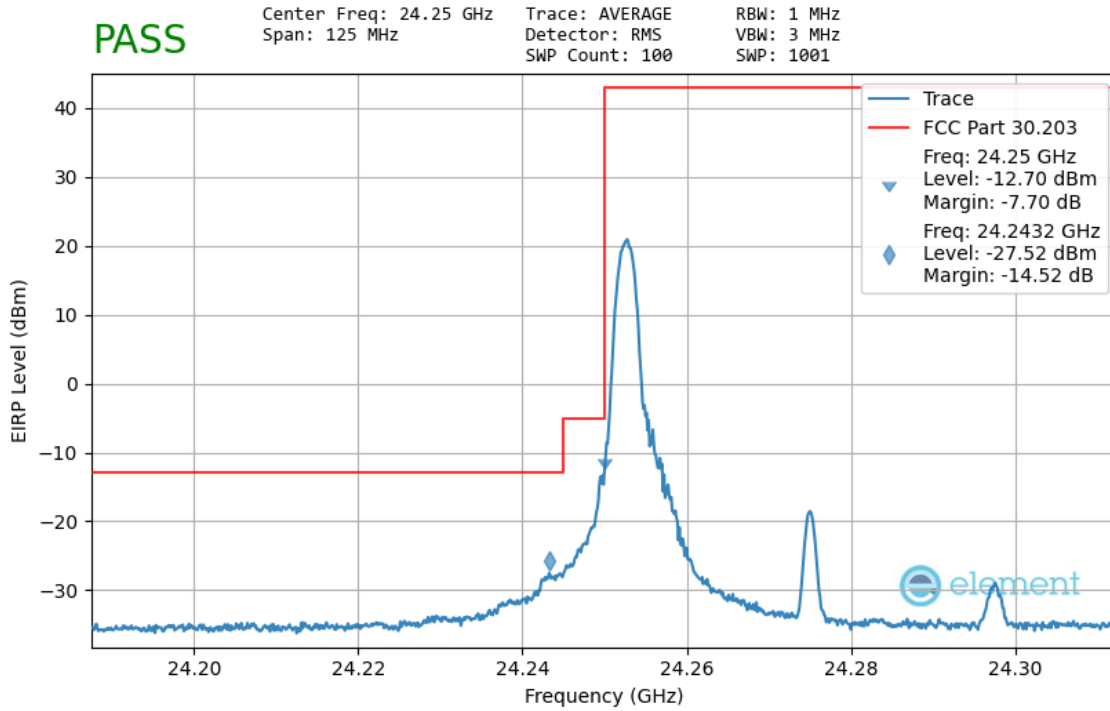
Measurement Antenna Factor = 40.70dB/m

Cable Loss = 8.82dB

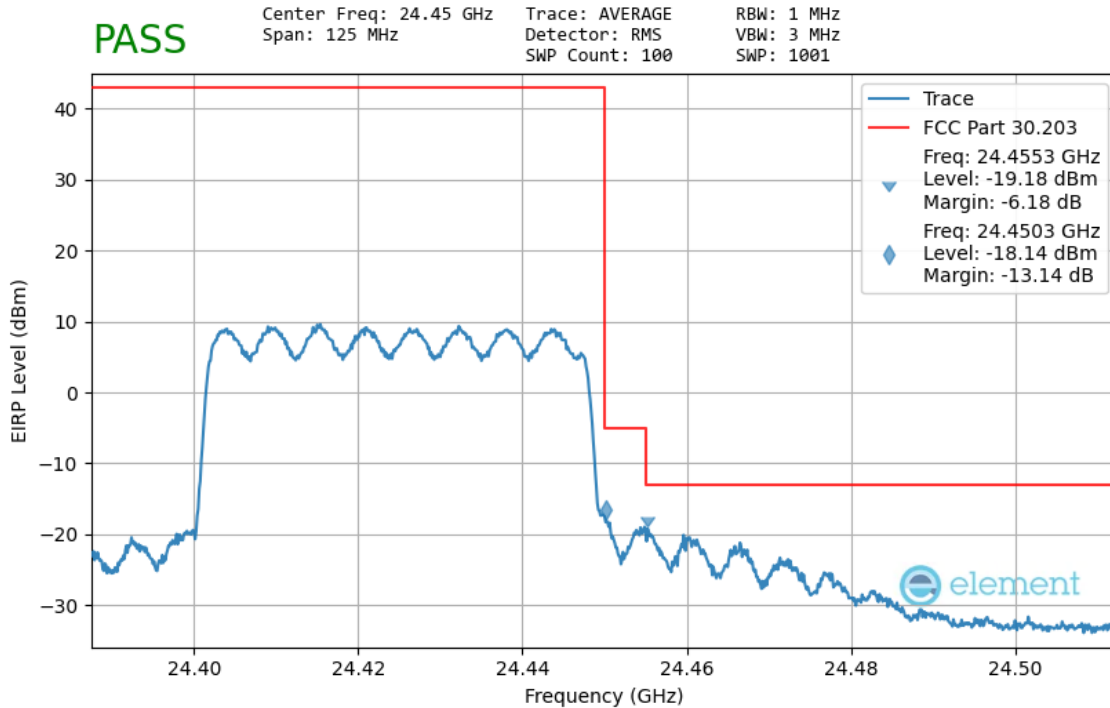
$$\begin{aligned}
 \text{Analyzer Offset (dB)} &= \text{AF (dB/m)} + \text{CL (dB)} + 107 + 20\log_{10}(D) - 104.8\text{dB, where } D = 1\text{m} \\
 &= 40.70\text{dB/m} + 8.82\text{dB} + 107 + 20\log_{10}(1\text{m}) - 104.8\text{dB} \\
 &= 51.72\text{dB}
 \end{aligned}$$

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Band n258-R1 – M patch – Worst Case

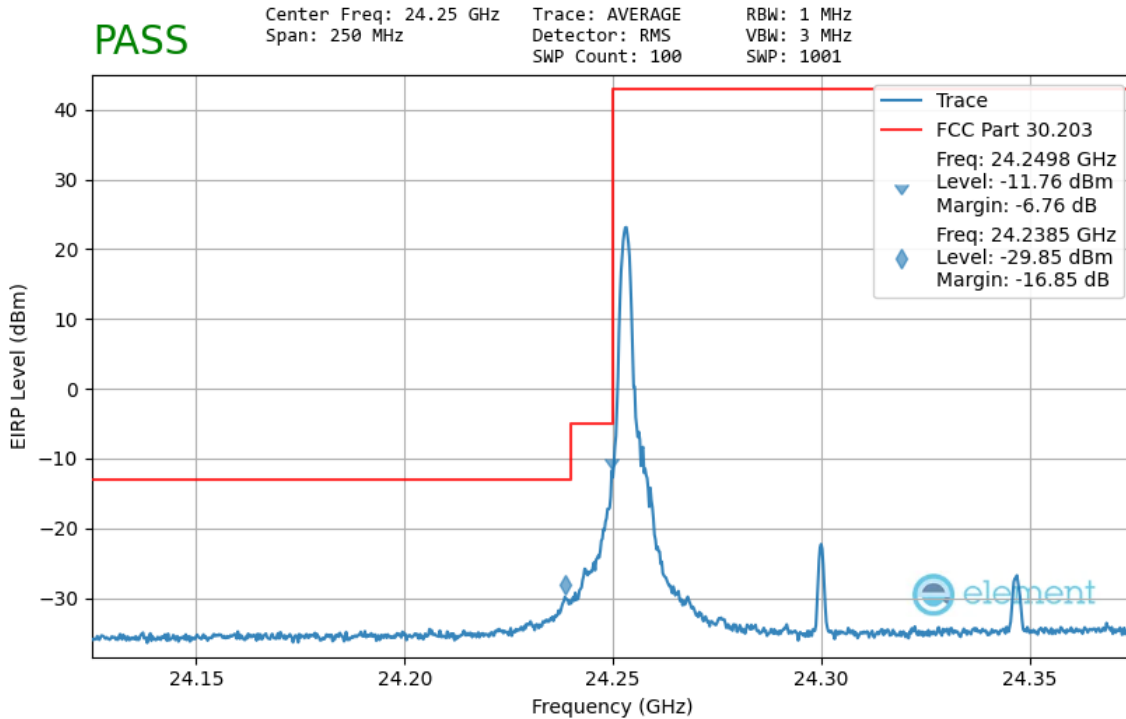


Plot 7-167. M patch Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

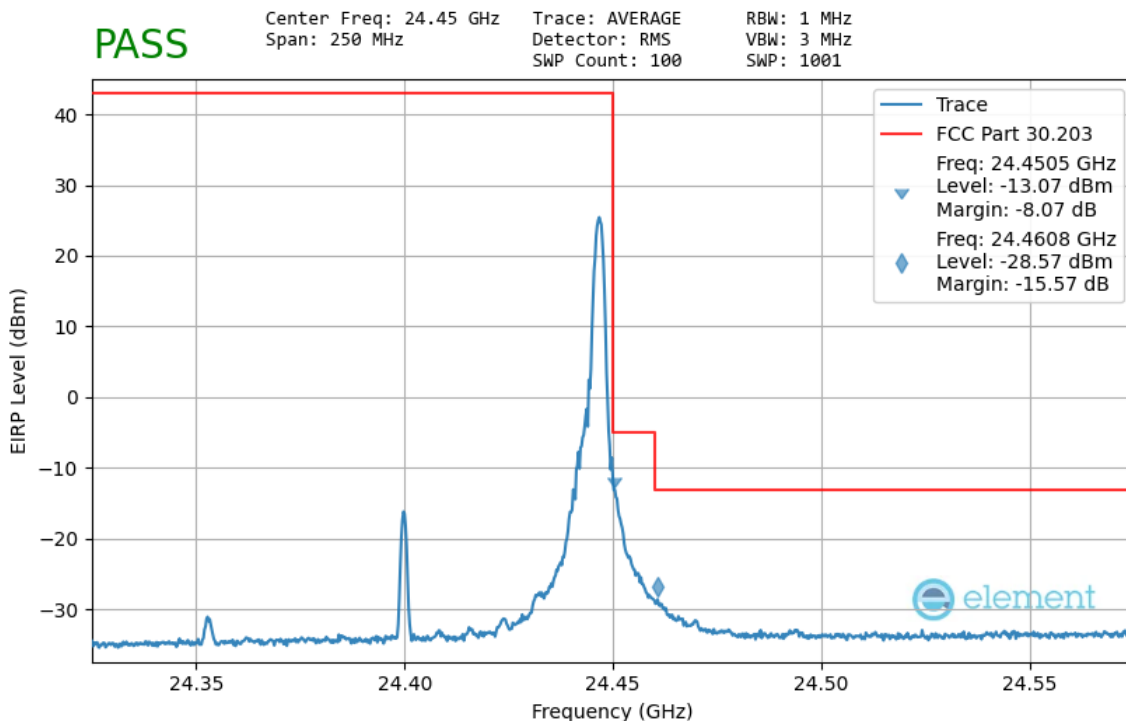


Plot 7-168. M patch Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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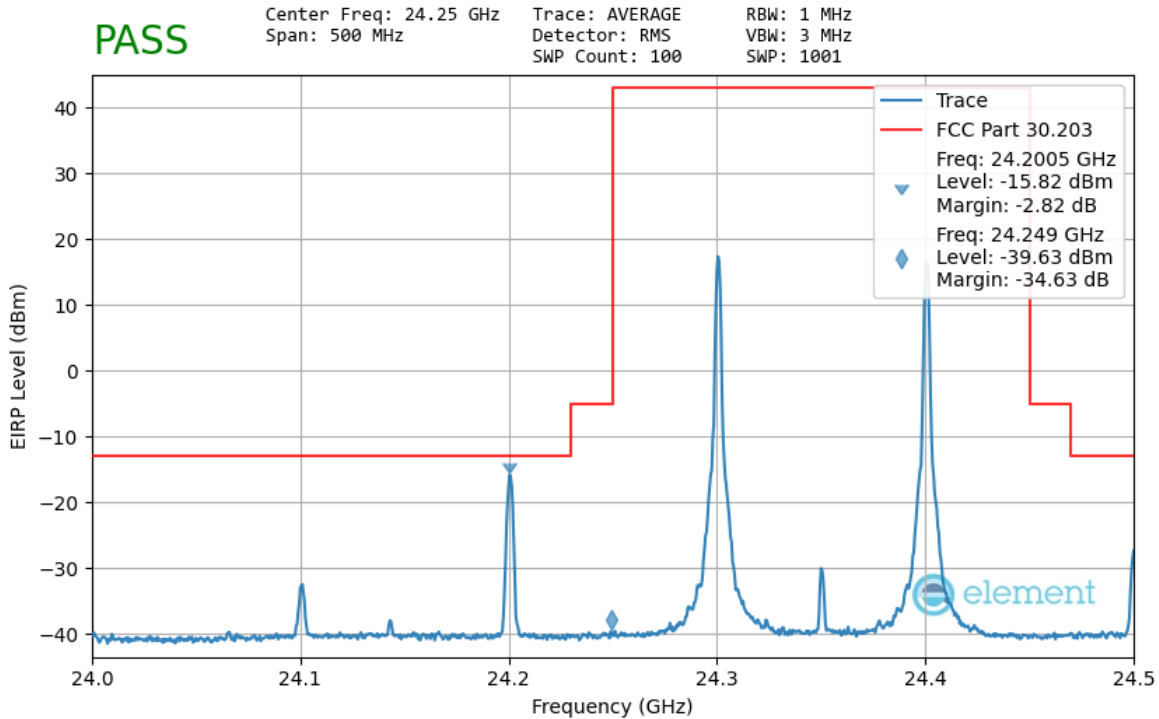


Plot 7-169. M patch Lower Band Edge (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

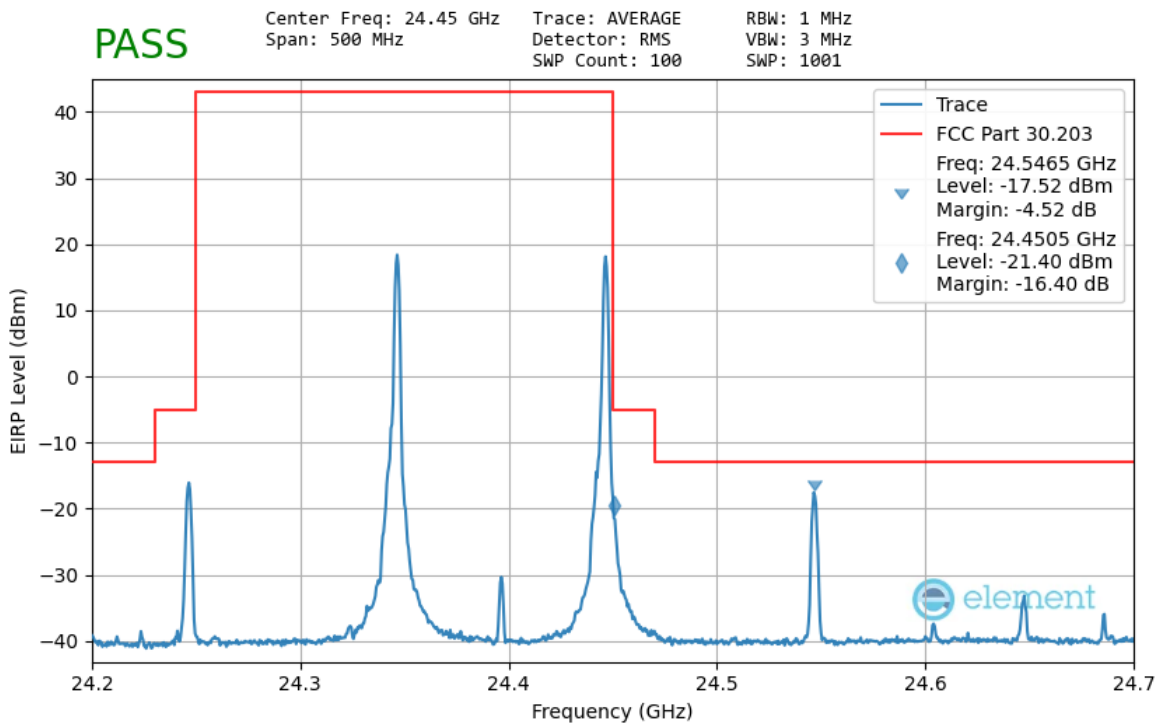


Plot 7-170. M patch Upper Band Edge (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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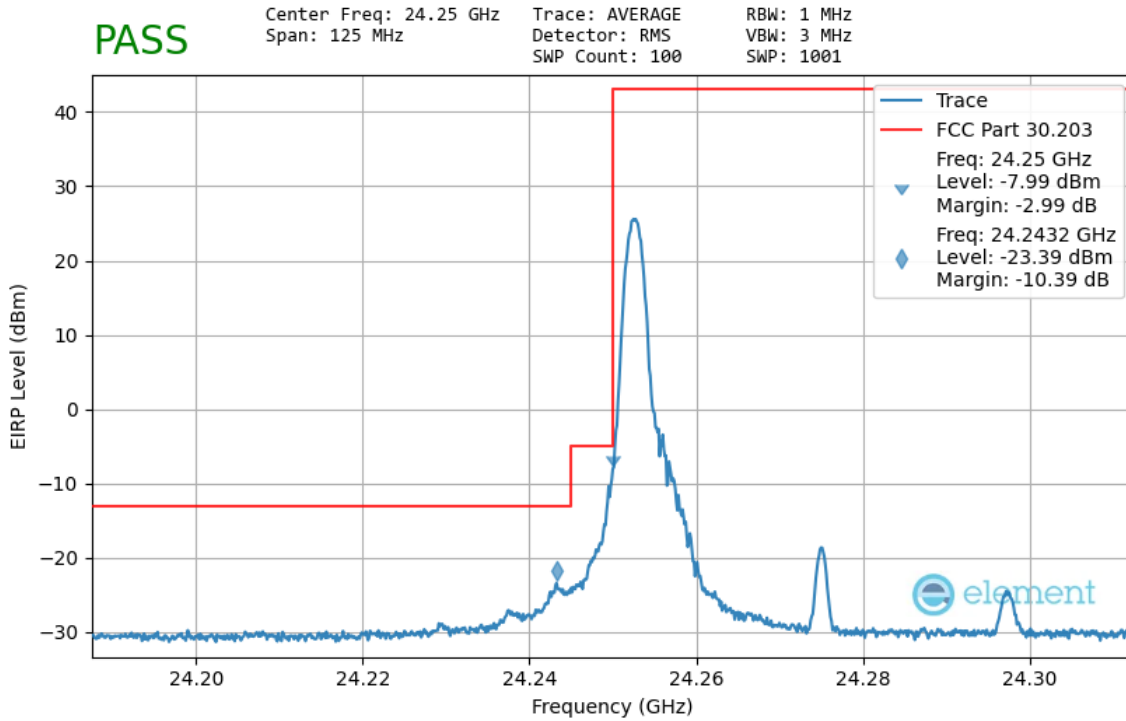
Plot 7-171. M patch Lower Band Edge (100MHz-2CC – DFT-s-OFDM QPSK 1 RB)



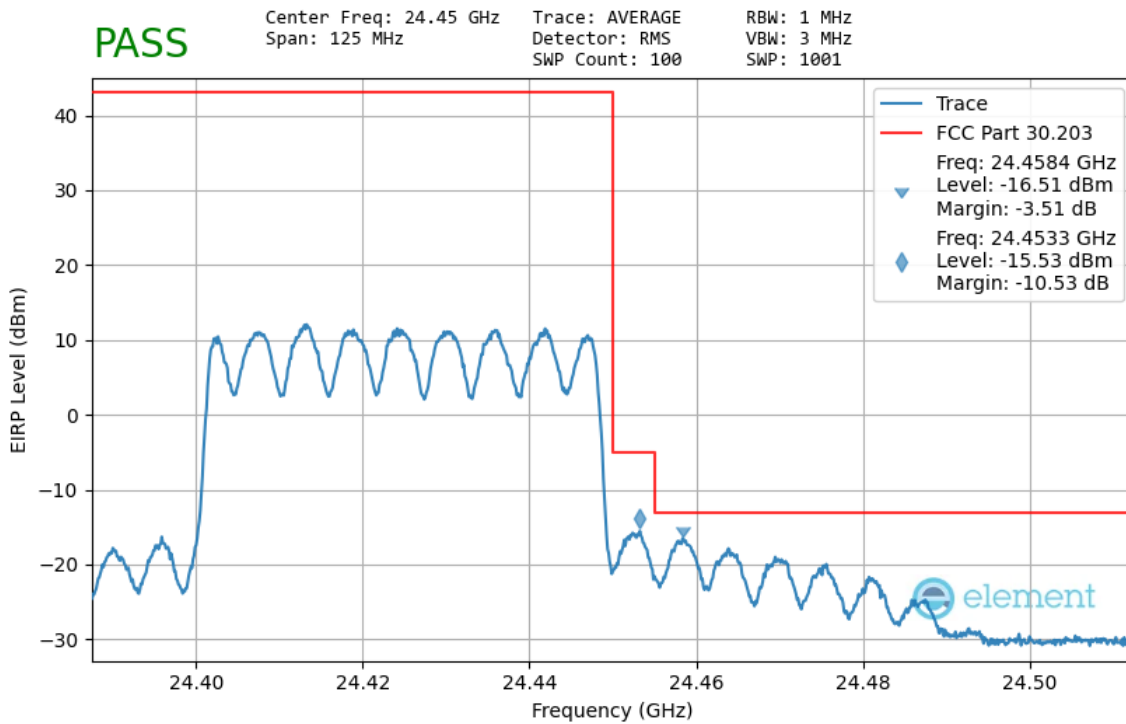
Plot 7-172. M patch Upper Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Band n258-R1 – N patch – Worst Case

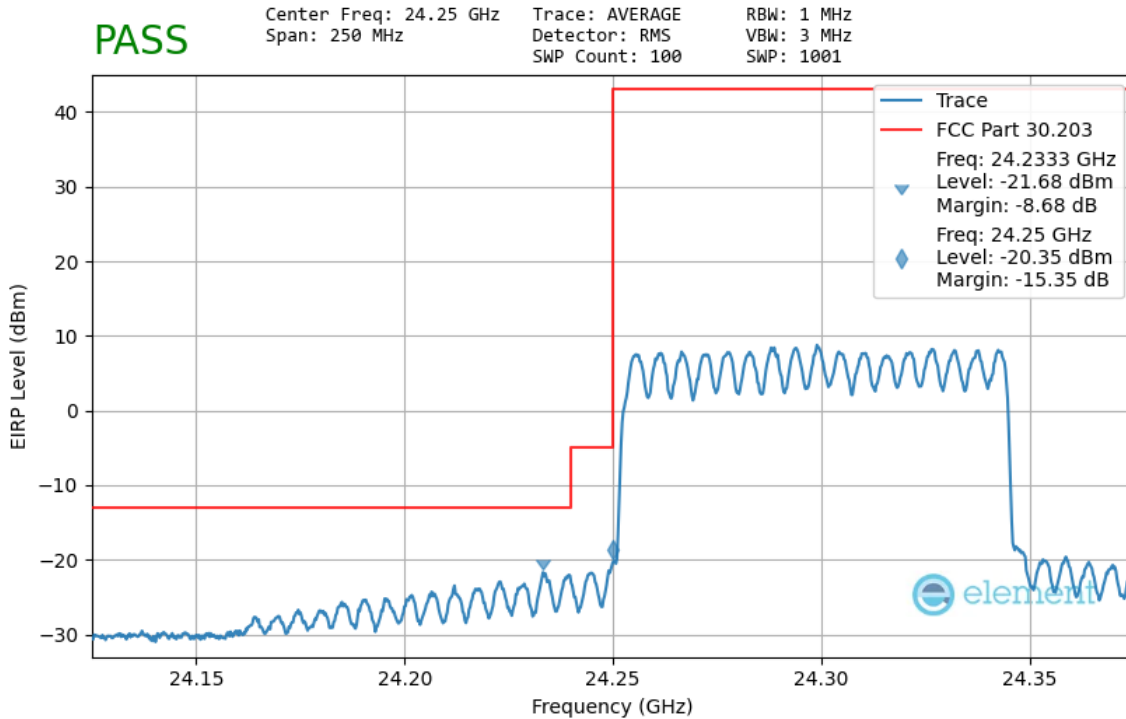


Plot 7-173. N patch Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

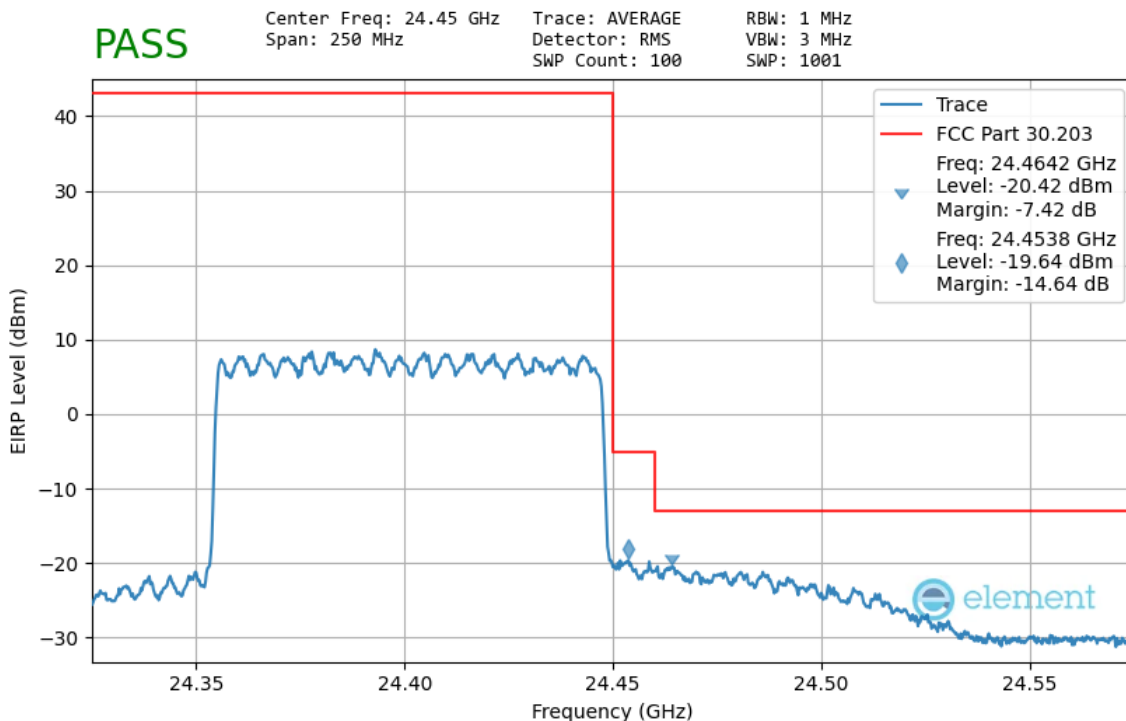


Plot 7-174. N patch Upper Band Edge (50MHz-1CC – CP-OFDM QPSK Full RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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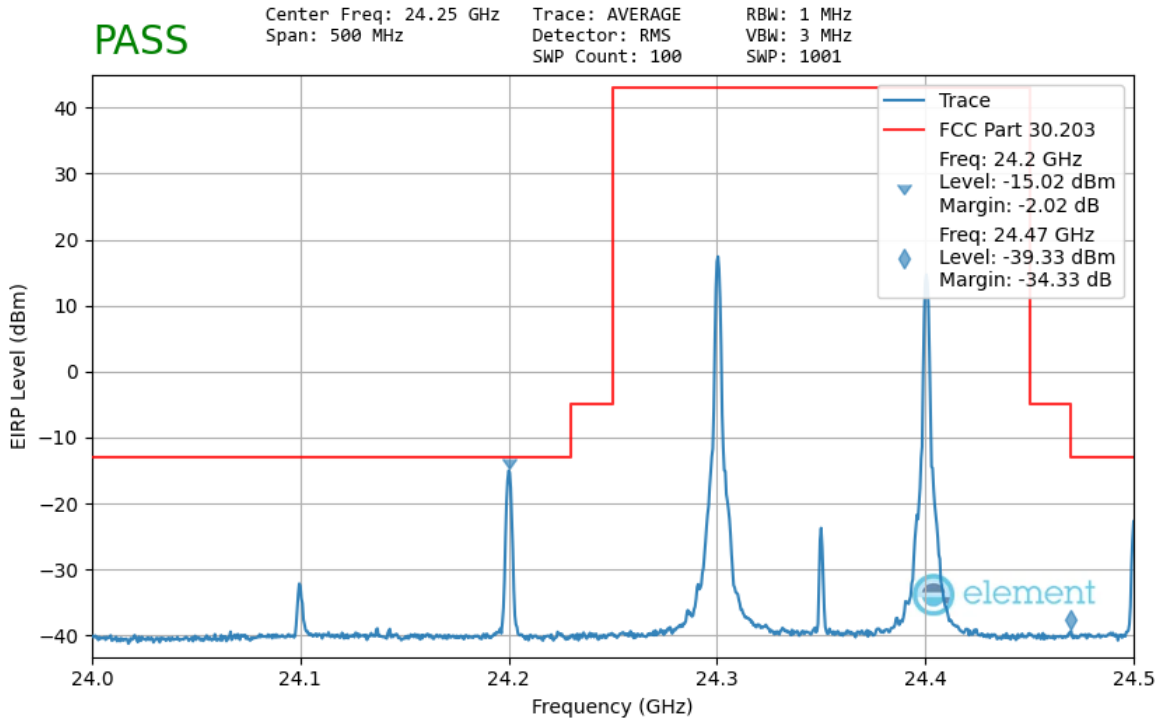


Plot 7-175. N patch Lower Band Edge (100MHz-1CC – CP-OFDM QPSK Full RB)

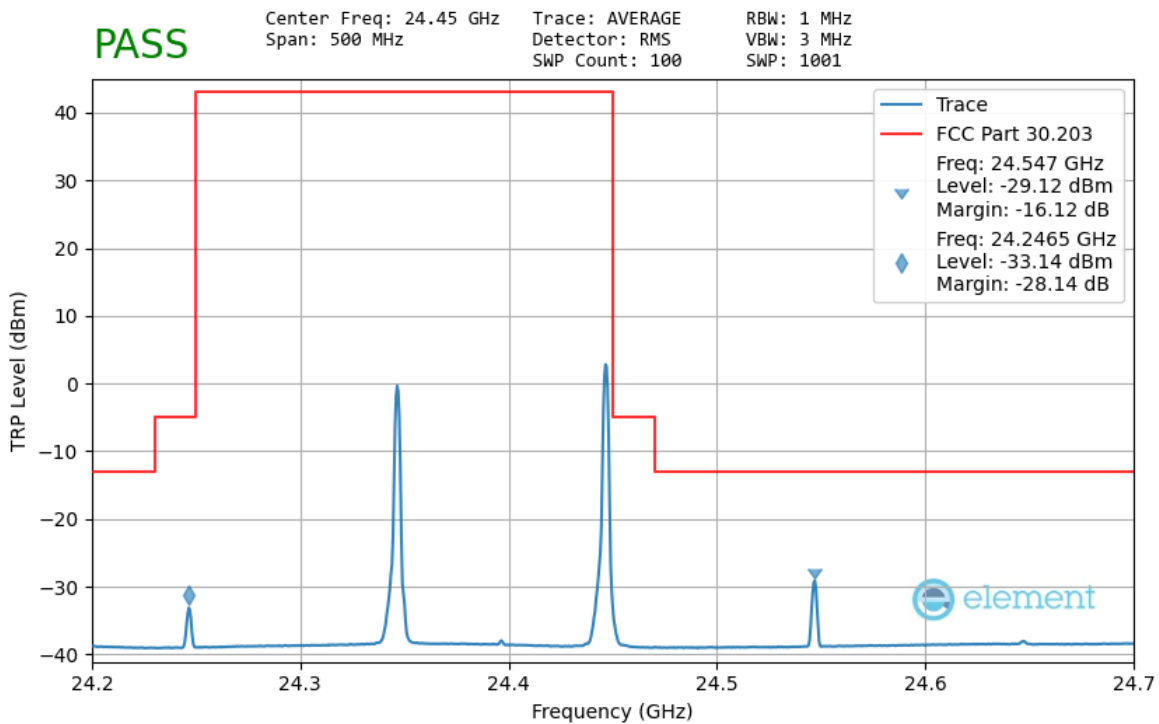


Plot 7-176. N patch Upper Band Edge (100MHz-1CC – CP-OFDM QPSK Full RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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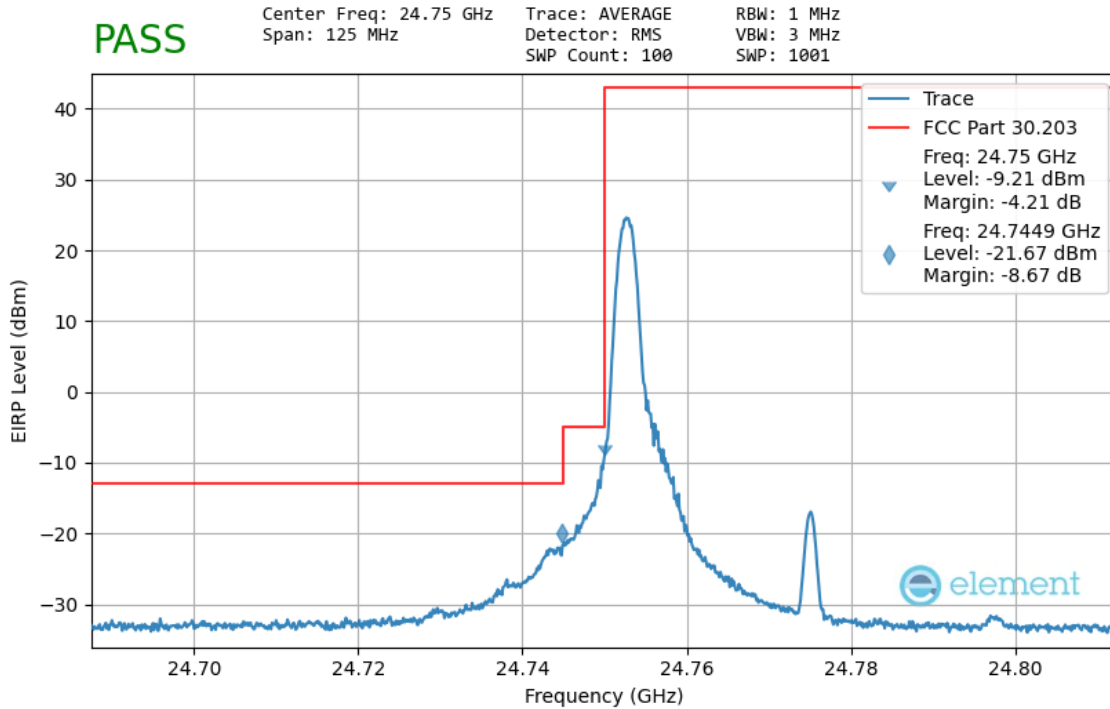
Plot 7-177. N patch Lower Band Edge (100MHz-2CC – DFT-s-OFDM QPSK 1 RB)



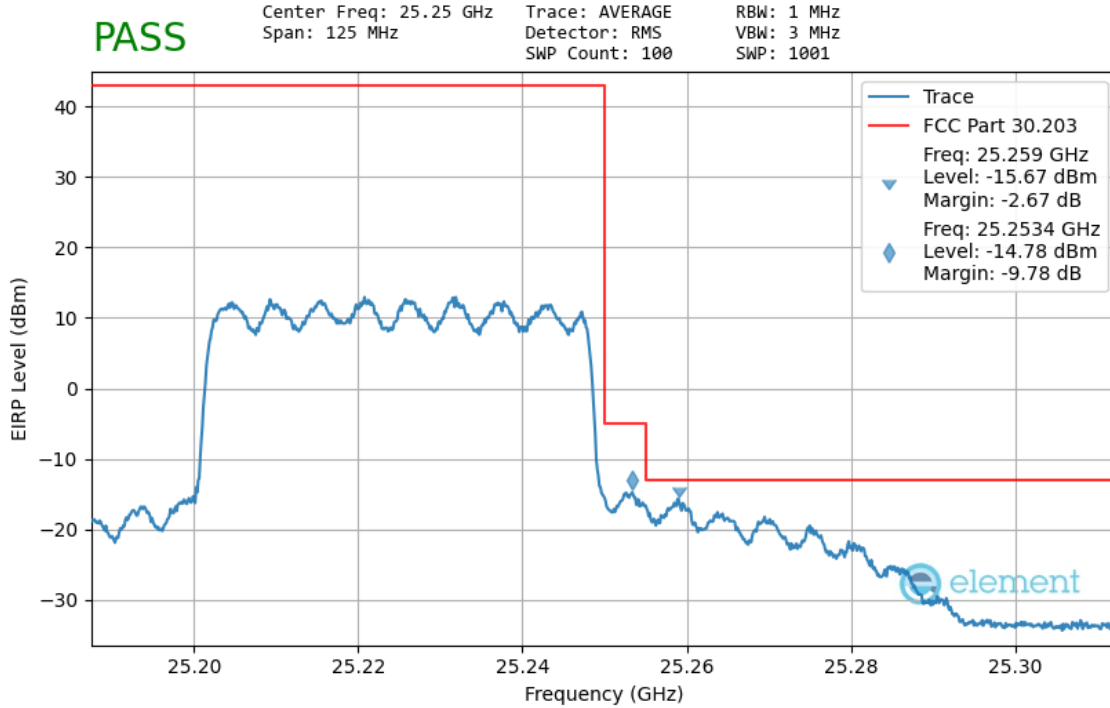
Plot 7-178. N patch Upper Band Edge - TRP (100MHz-2CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Band n258-R2 – M patch – Worst Case

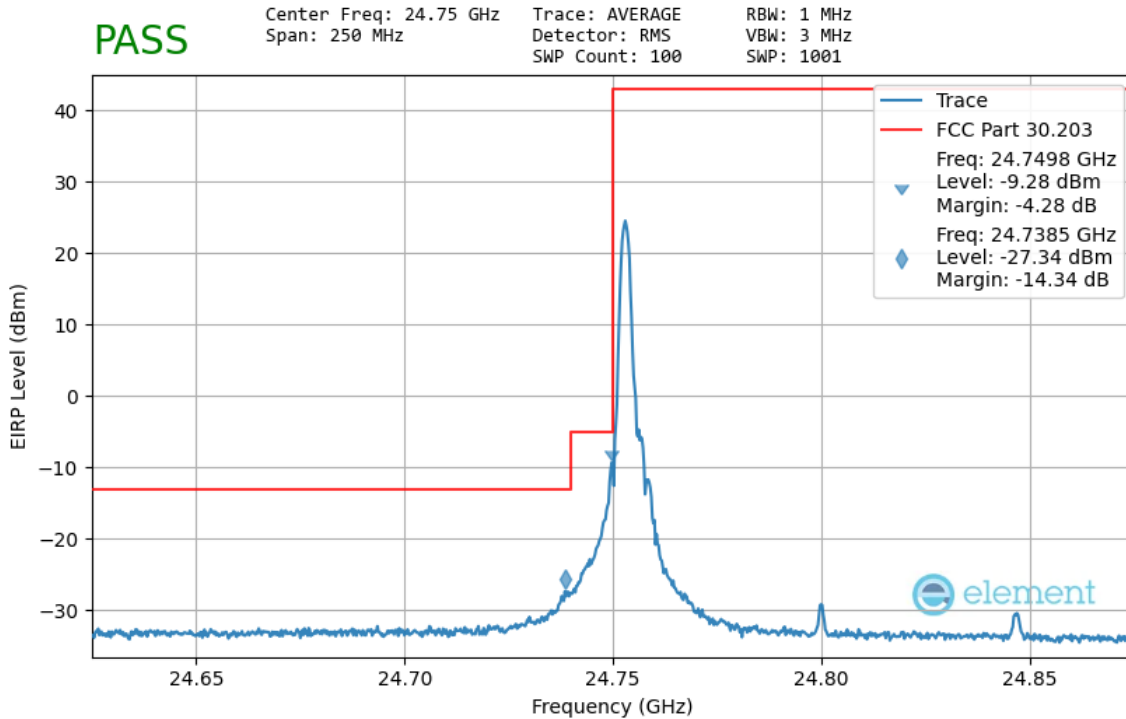


Plot 7-179. M patch Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

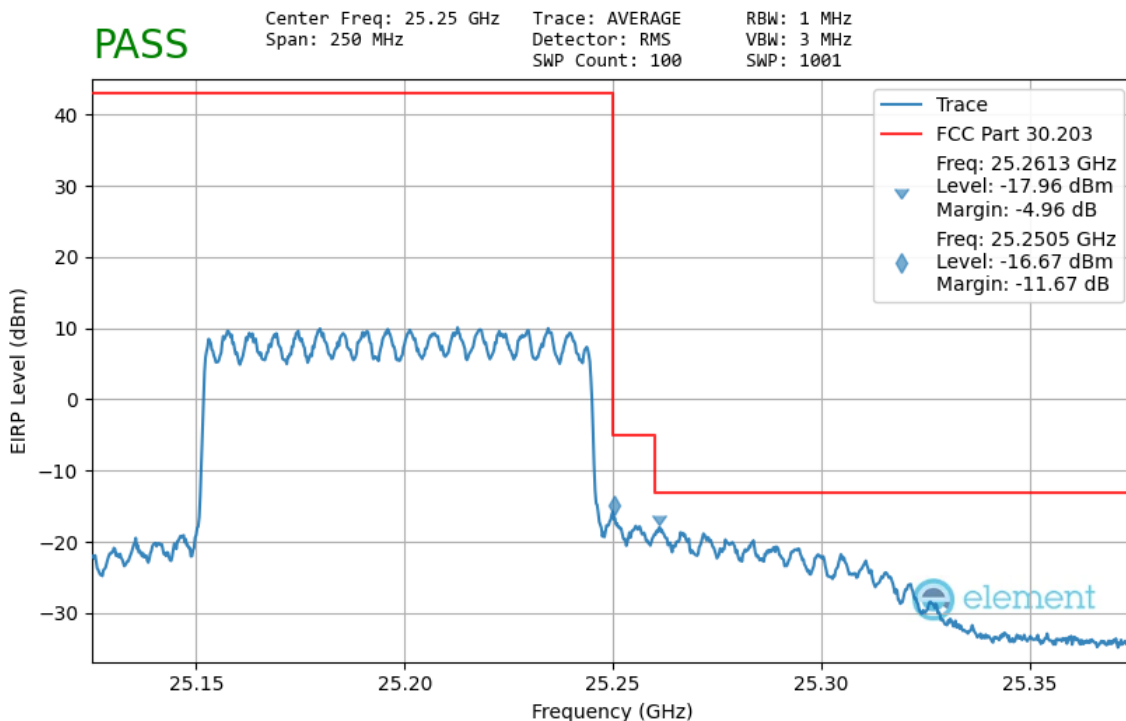


Plot 7-180. M patch Upper Band Edge (50MHz-1CC – CP-OFDM QPSK Full RB)

FCC ID: A3LSMS911U	PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset	Page 157 of 201

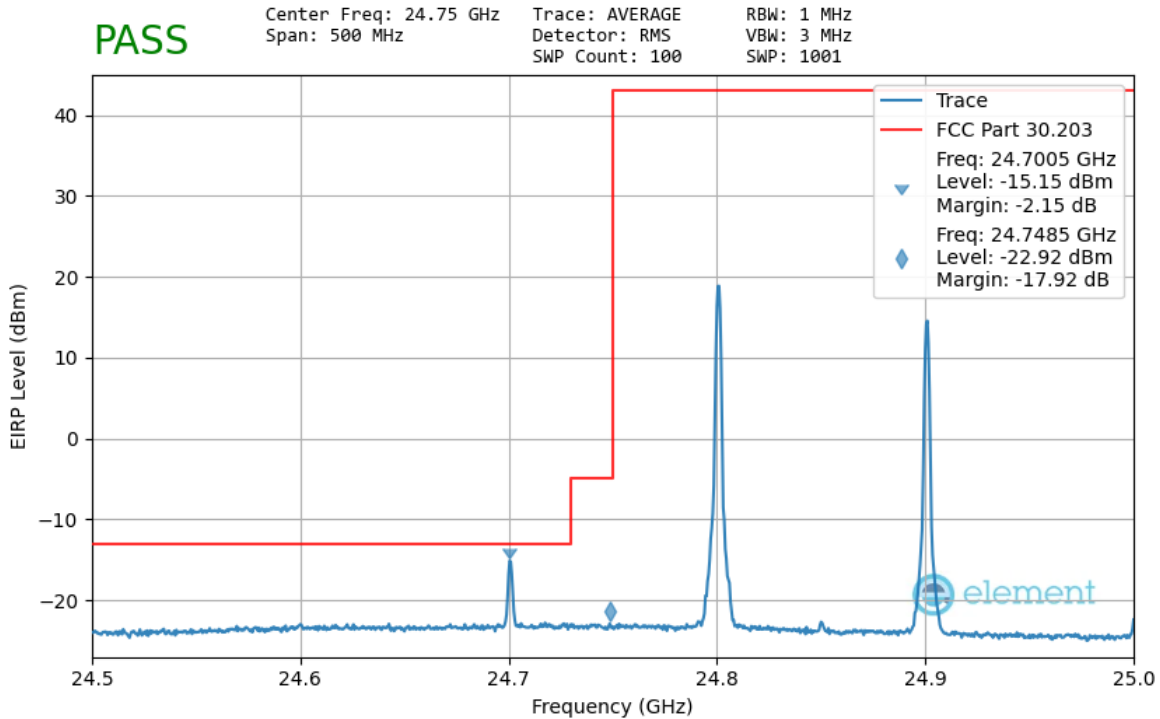


Plot 7-181. M patch Lower Band Edge (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

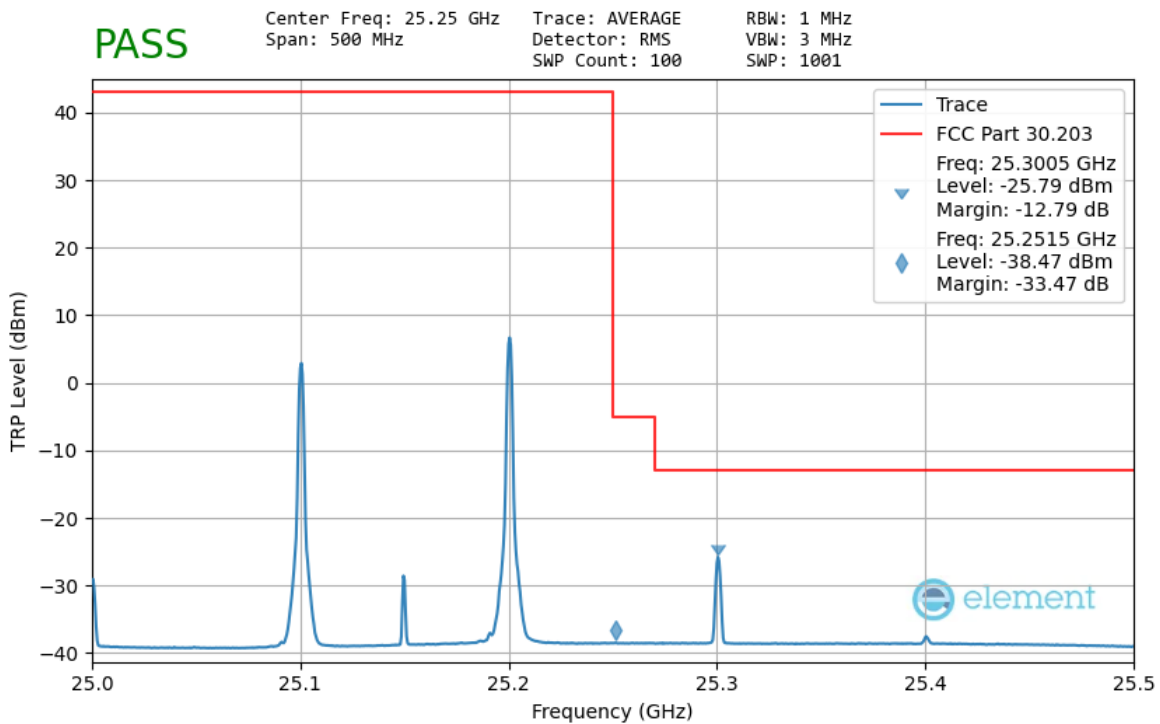


Plot 7-182. M patch Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK Full RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset	Page 158 of 201

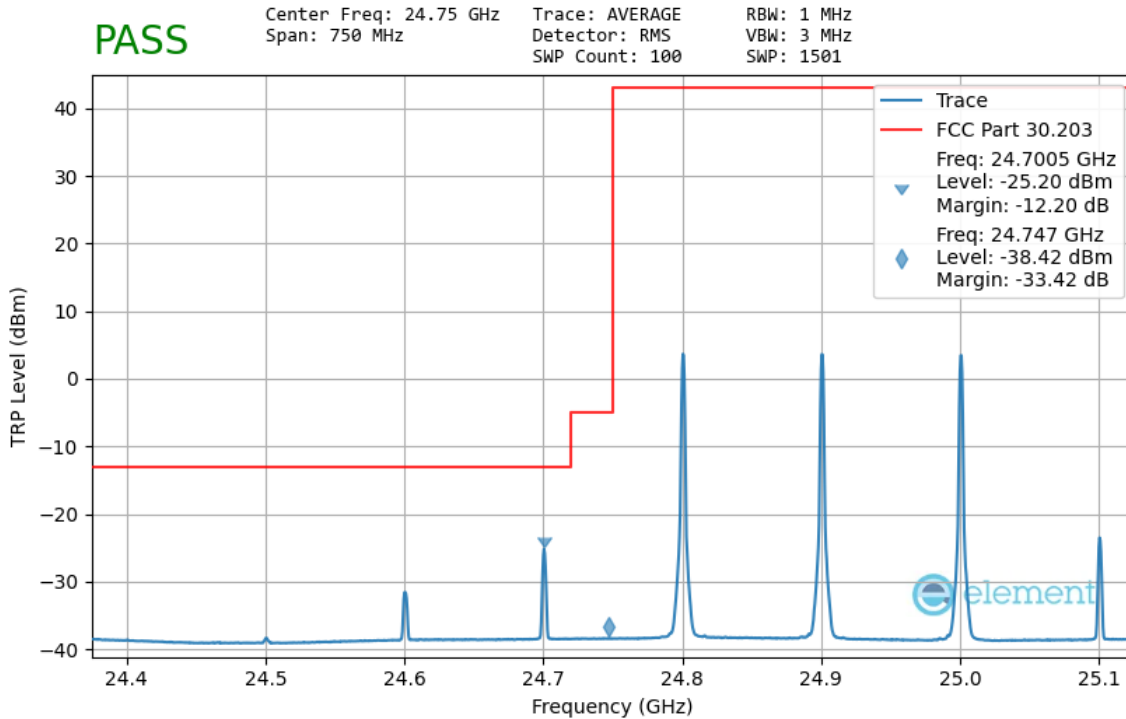


Plot 7-183. M patch Lower Band Edge (100MHz-2CC – DFT-s-OFDM QPSK 1 RB)

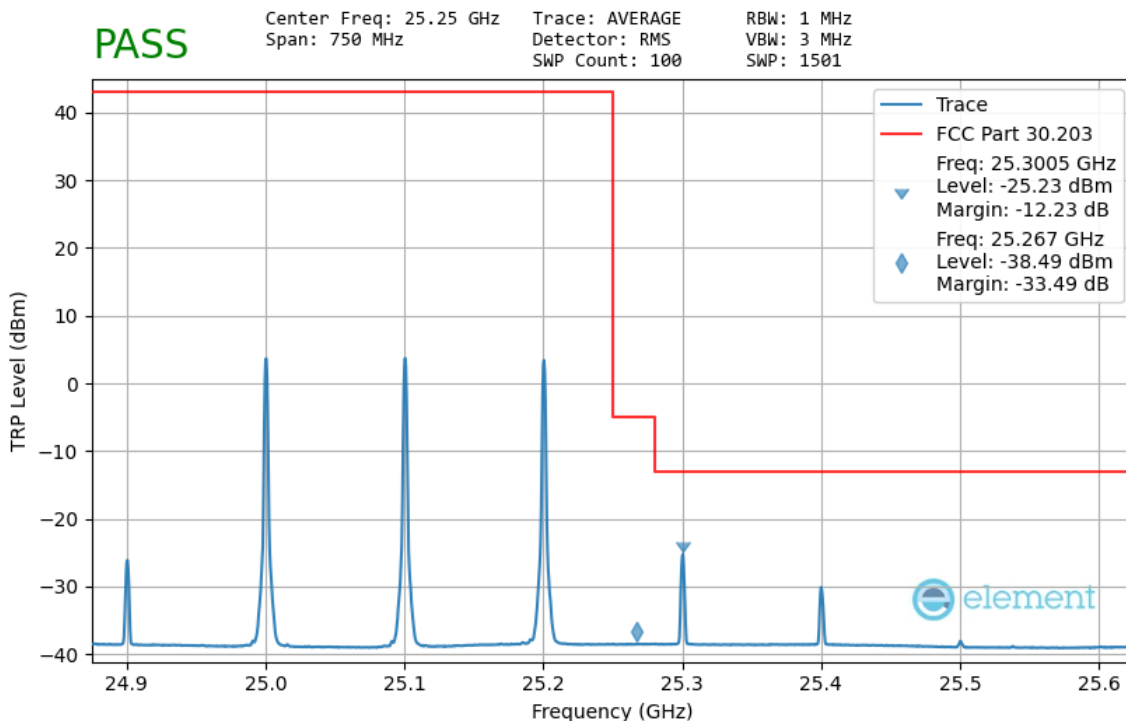


Plot 7-184. M patch Upper Band Edge - TRP (100MHz-2CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset	Page 159 of 201



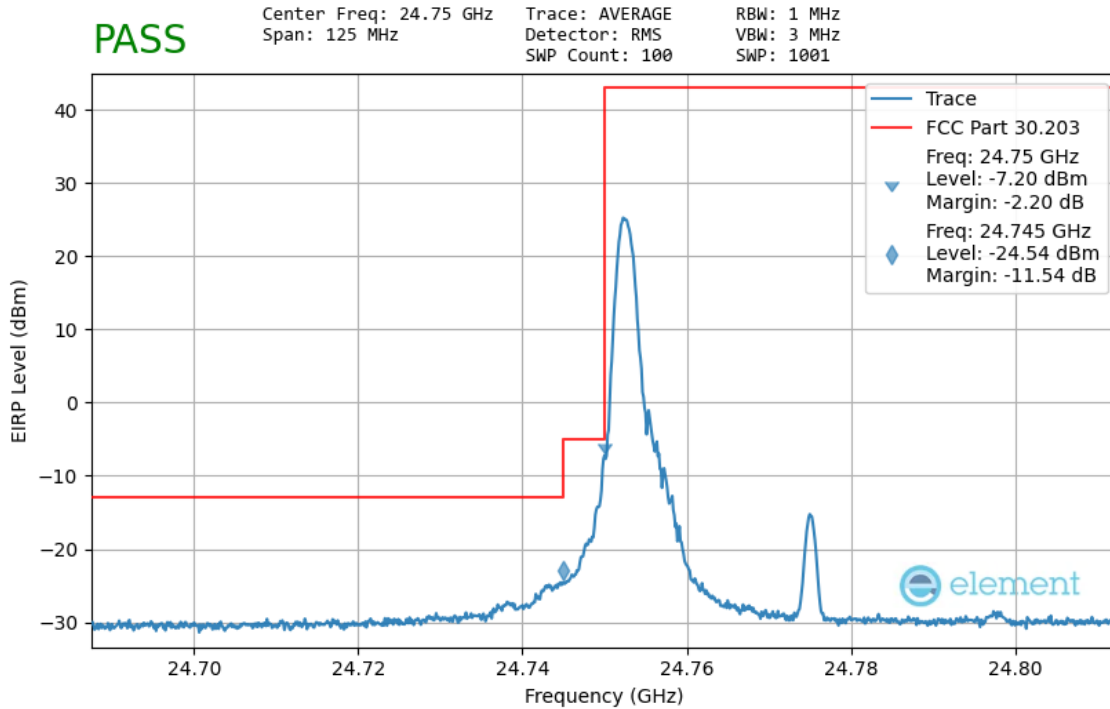
Plot 7-185. M patch Lower Band Edge - TRP (100MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)



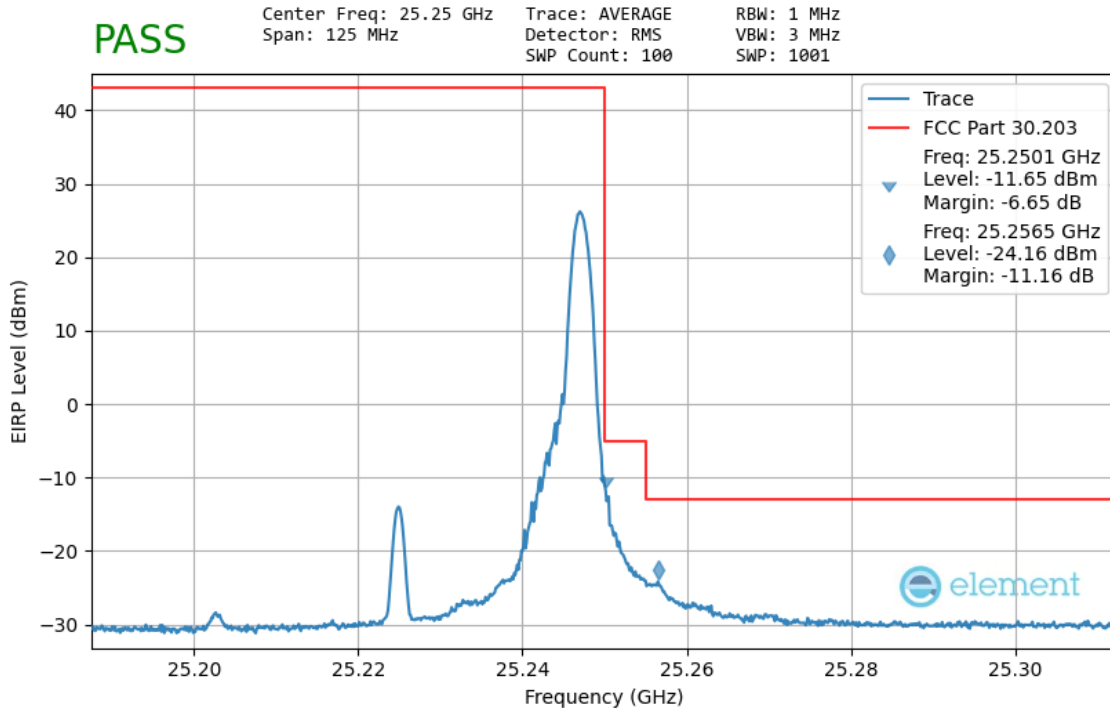
Plot 7-186. M patch Upper Band Edge - TRP (100MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Band n258-R2 – N patch – Worst Case

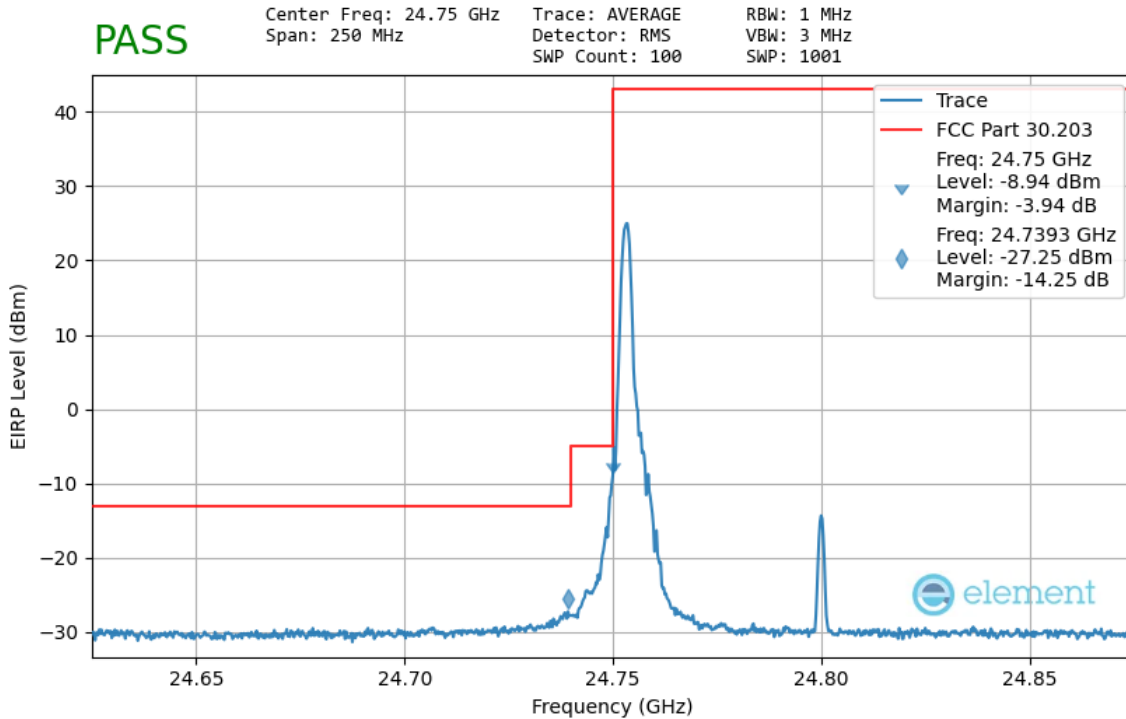


Plot 7-187. N patch Lower Band Edge (50MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

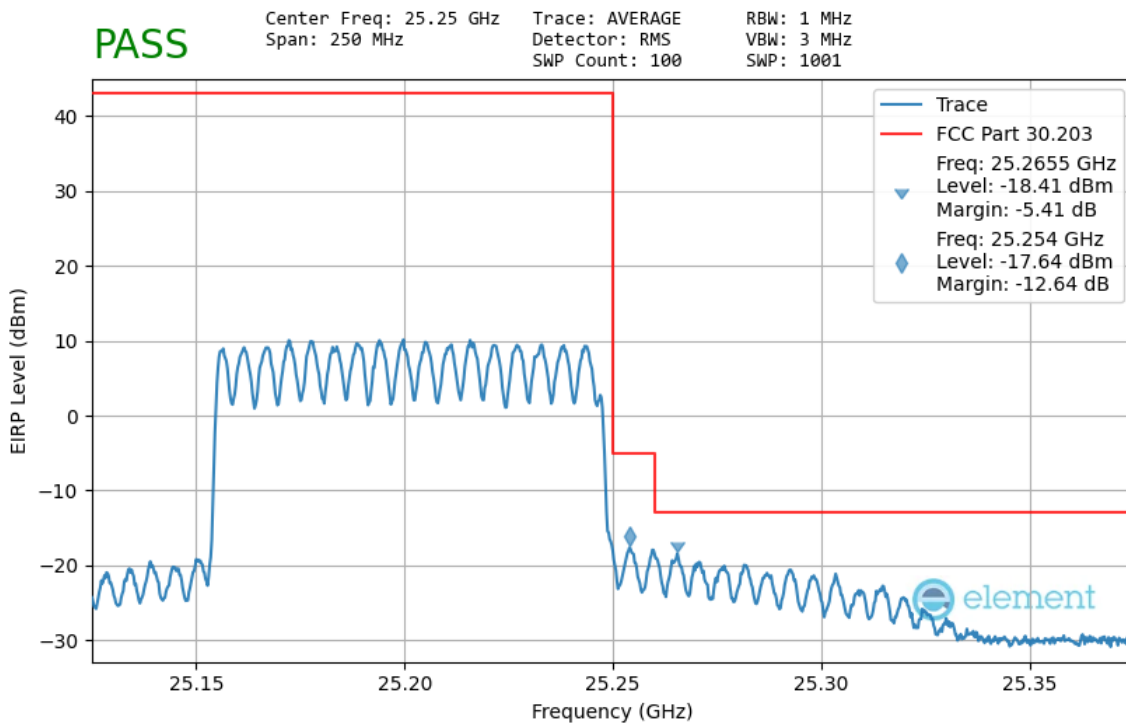


Plot 7-188. N patch Upper Band Edge (50MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 161 of 201

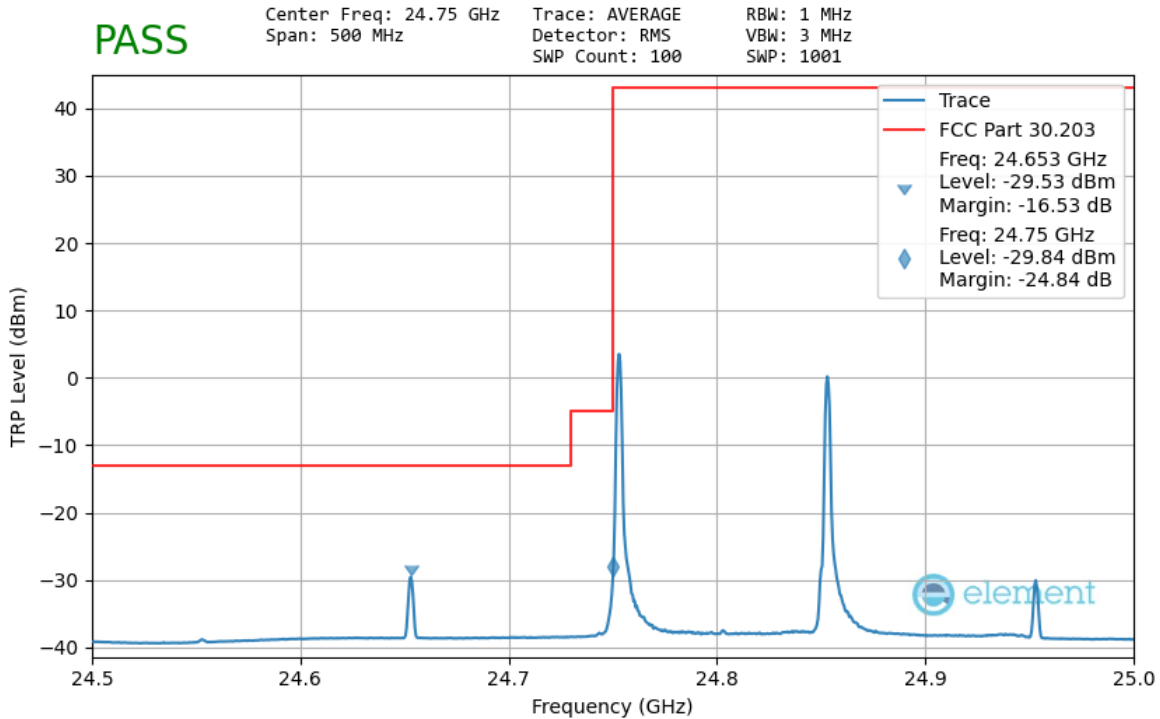


Plot 7-189. N patch Lower Band Edge (100MHz-1CC – DFT-s-OFDM QPSK 1 RB)

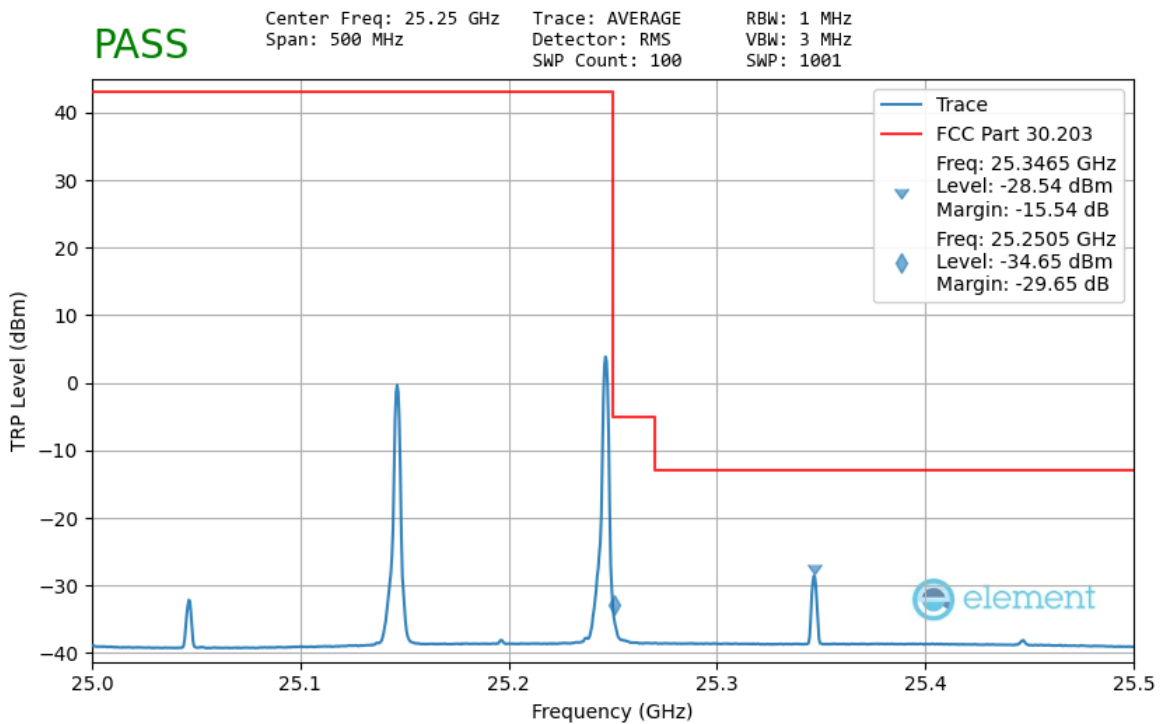


Plot 7-190. N patch Upper Band Edge (100MHz-1CC – DFT-s-OFDM Full RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset	Page 162 of 201

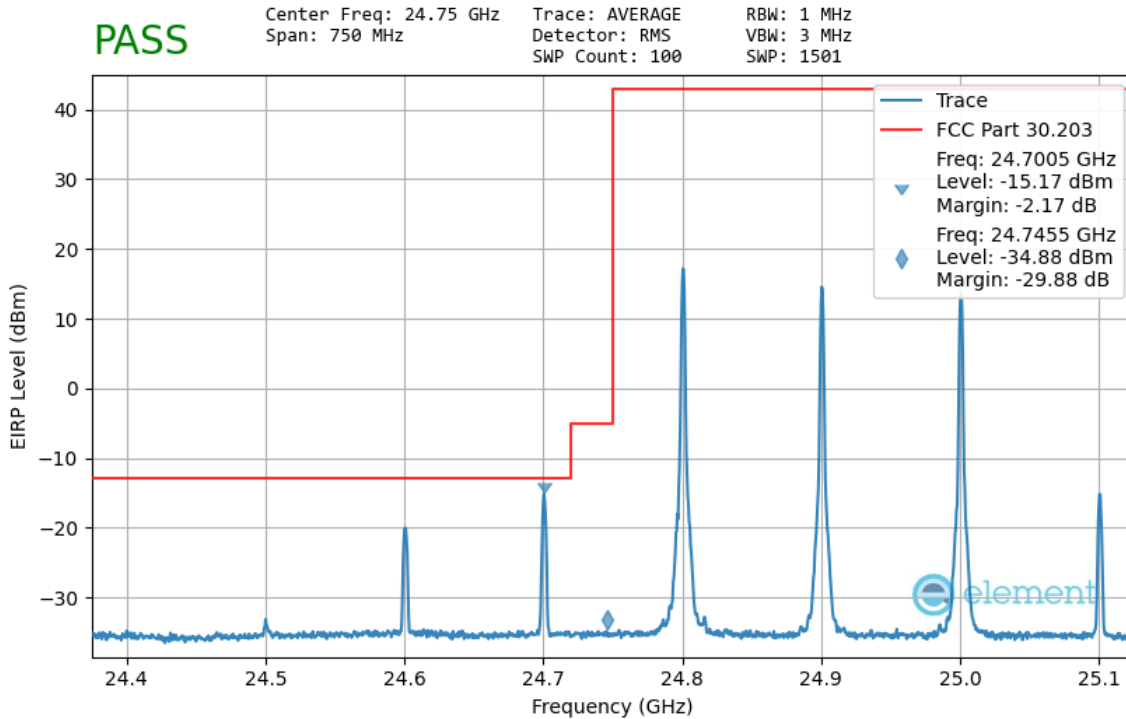


Plot 7-191. N patch Lower Band Edge - TRP (100MHz-2CC – CP-OFDM QPSK 1 RB)

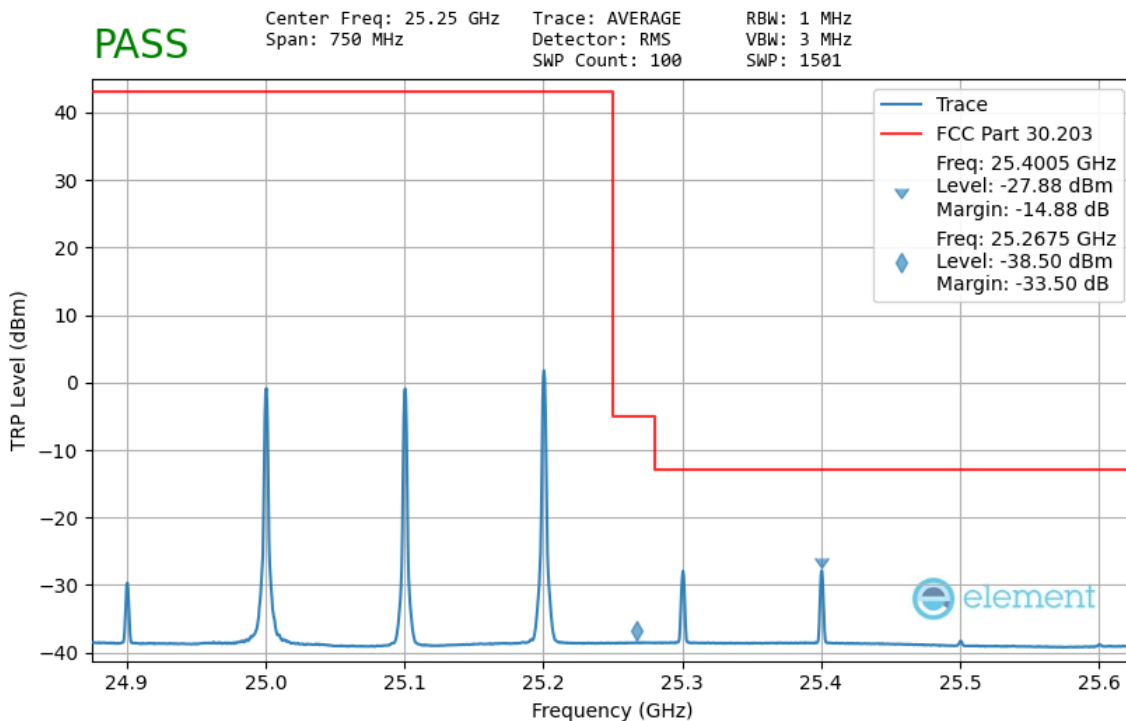


Plot 7-192. N patch Upper Band Edge - TRP (100MHz-2CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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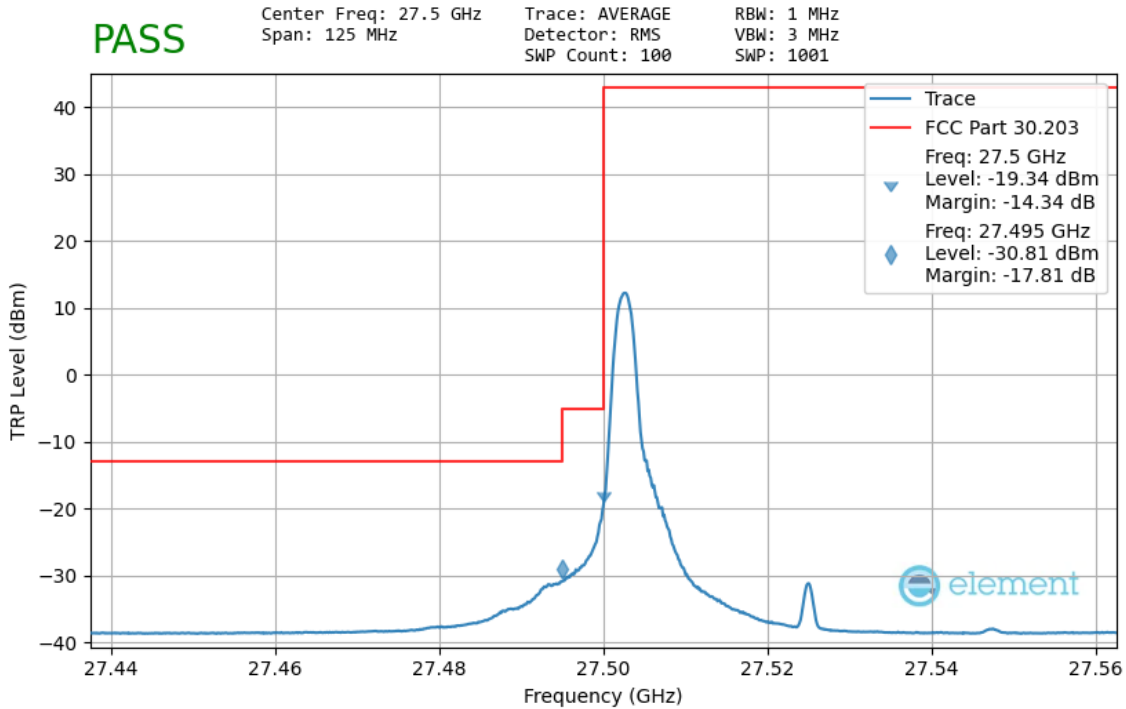
Plot 7-193. N patch Lower Band Edge (100MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)



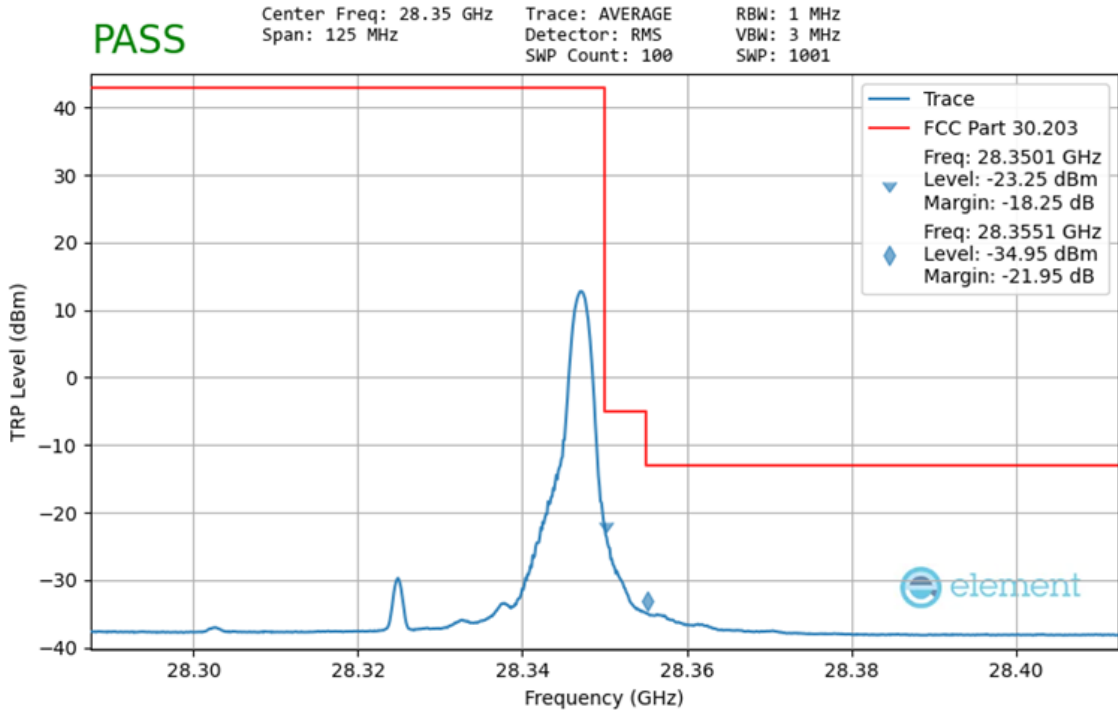
Plot 7-194. N patch Upper Band Edge - TRP (100MHz-3CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Band n261 – M patch – Worst Case

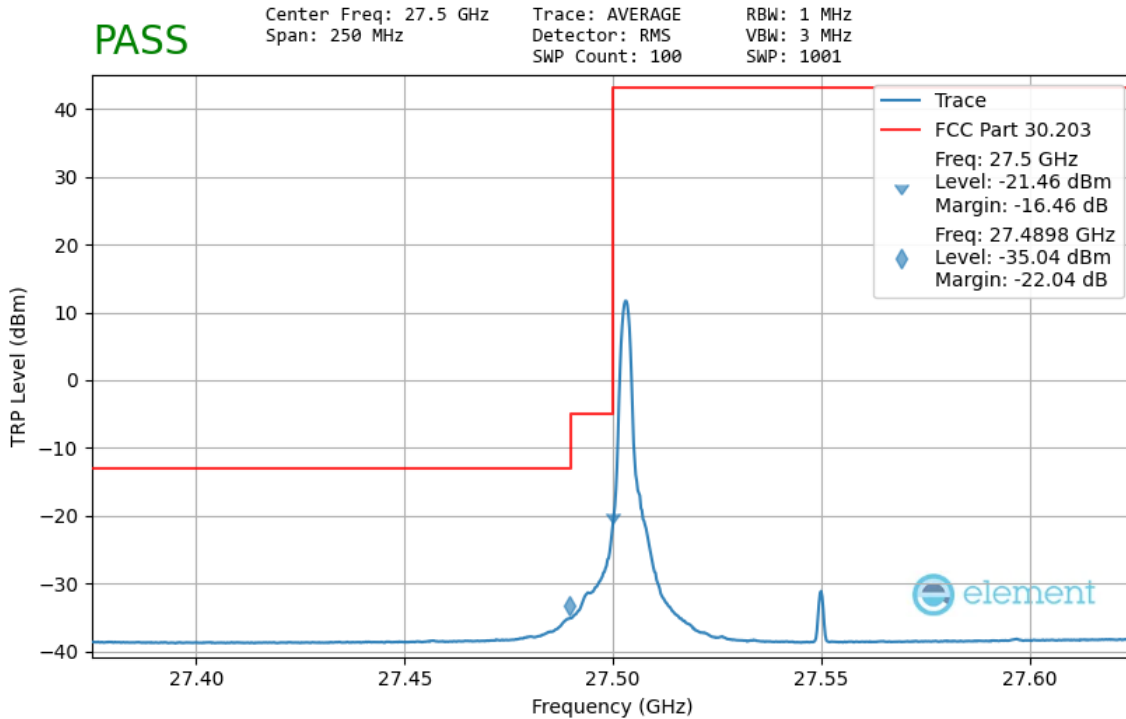


Plot 7-195. M patch Lower Band Edge - TRP (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

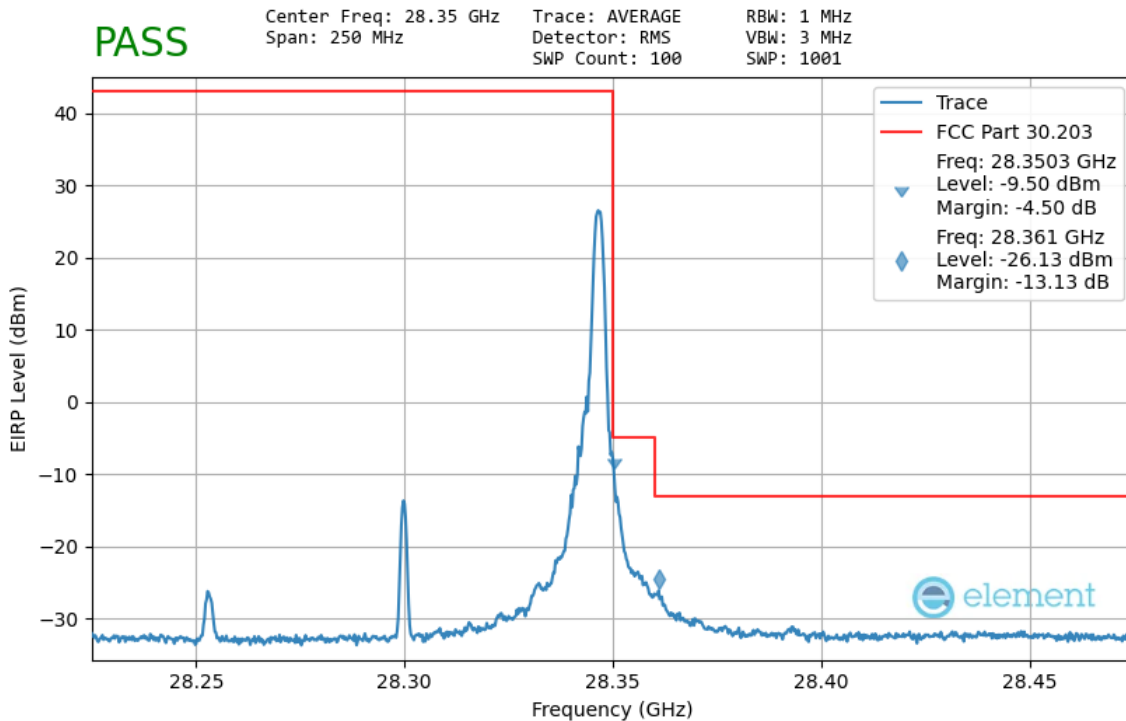


Plot 7-196. M patch Upper Band Edge - TRP (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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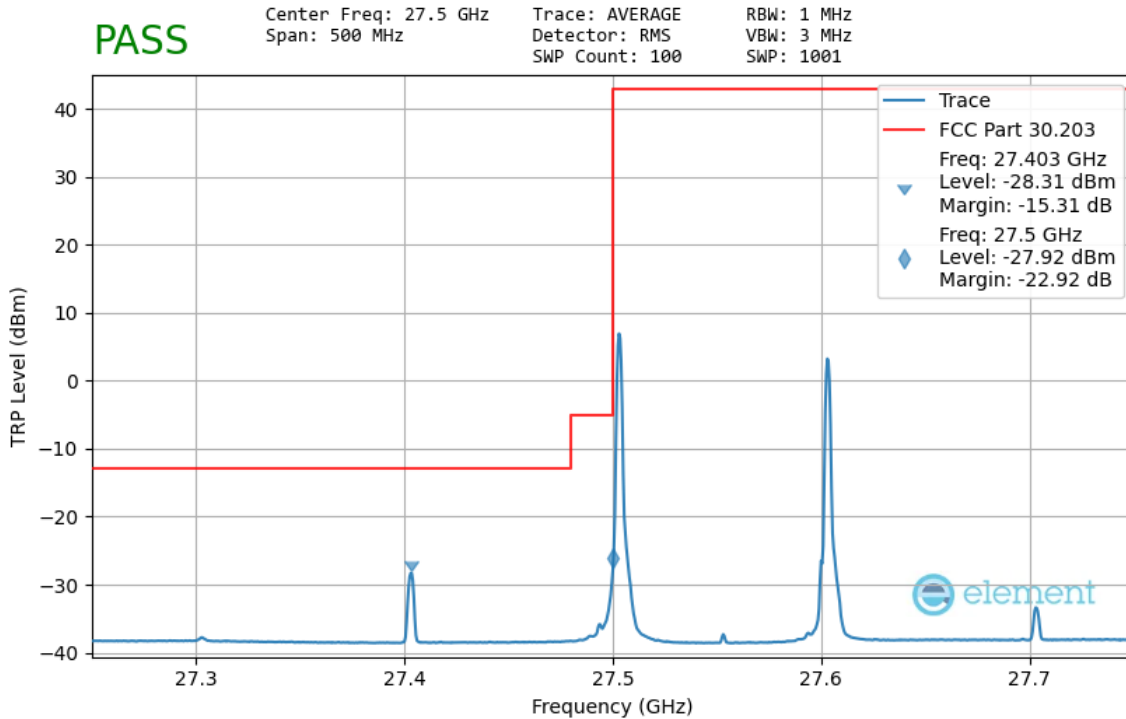


Plot 7-197. M patch Lower Band Edge - TRP (100MHz-1CC – DFT-s-OFDM QPSK 1 RB)

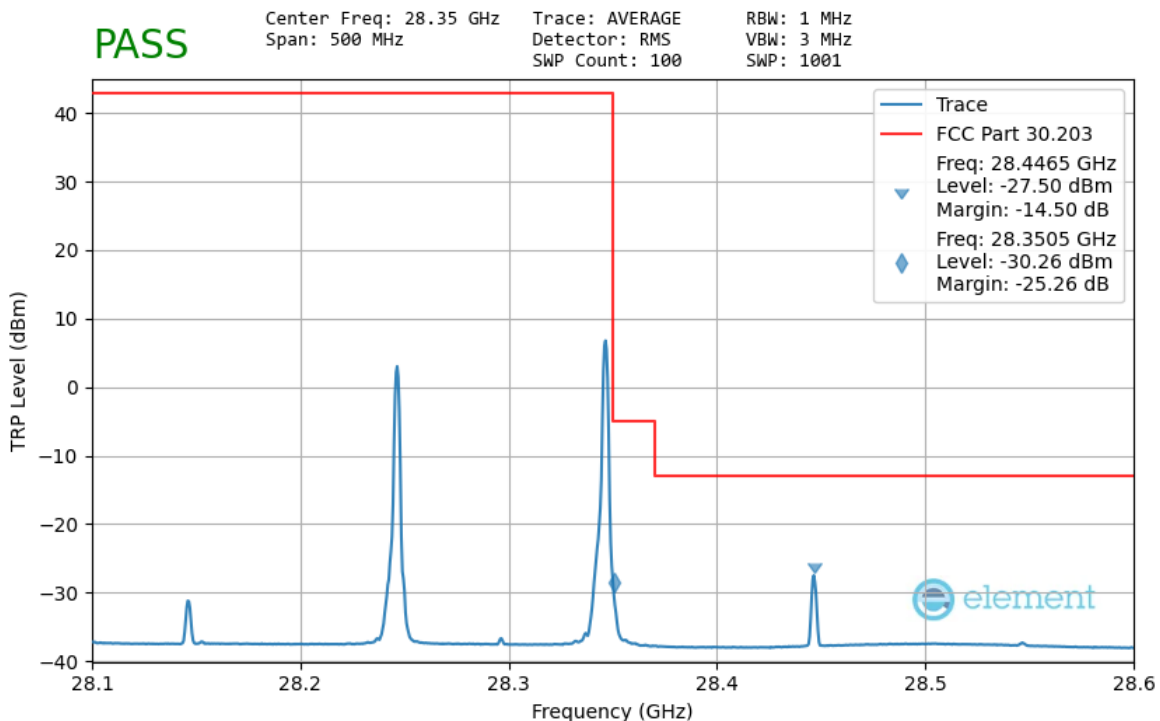


Plot 7-198. M patch Upper Band Edge - (100MHz-1CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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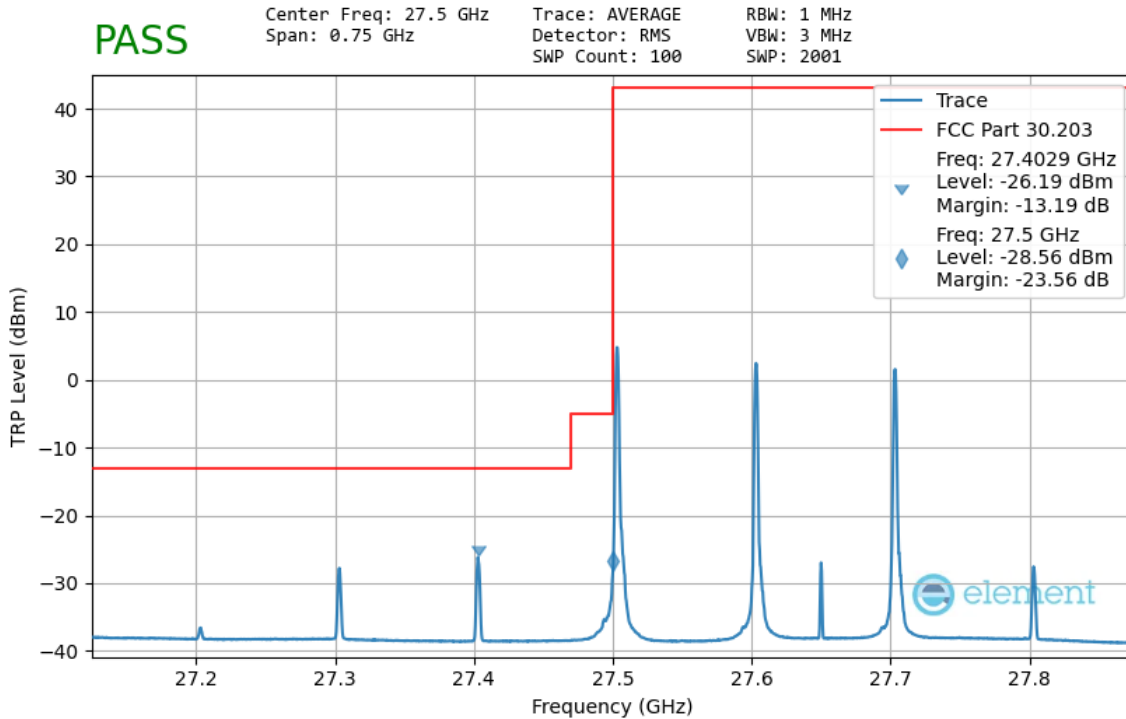


Plot 7-199. M patch Lower Band Edge - TRP (100MHz-2CC – DFT-s-OFDM QPSK 1 RB)

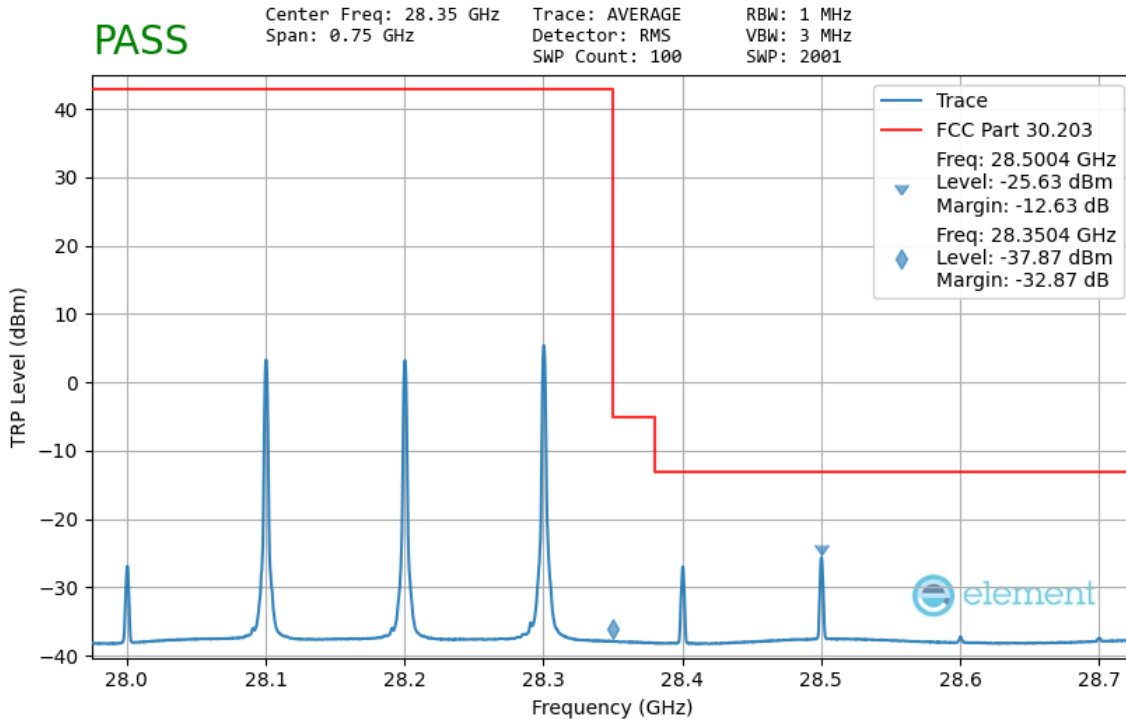


Plot 7-200. M patch Upper Band Edge - TRP (100MHz-2CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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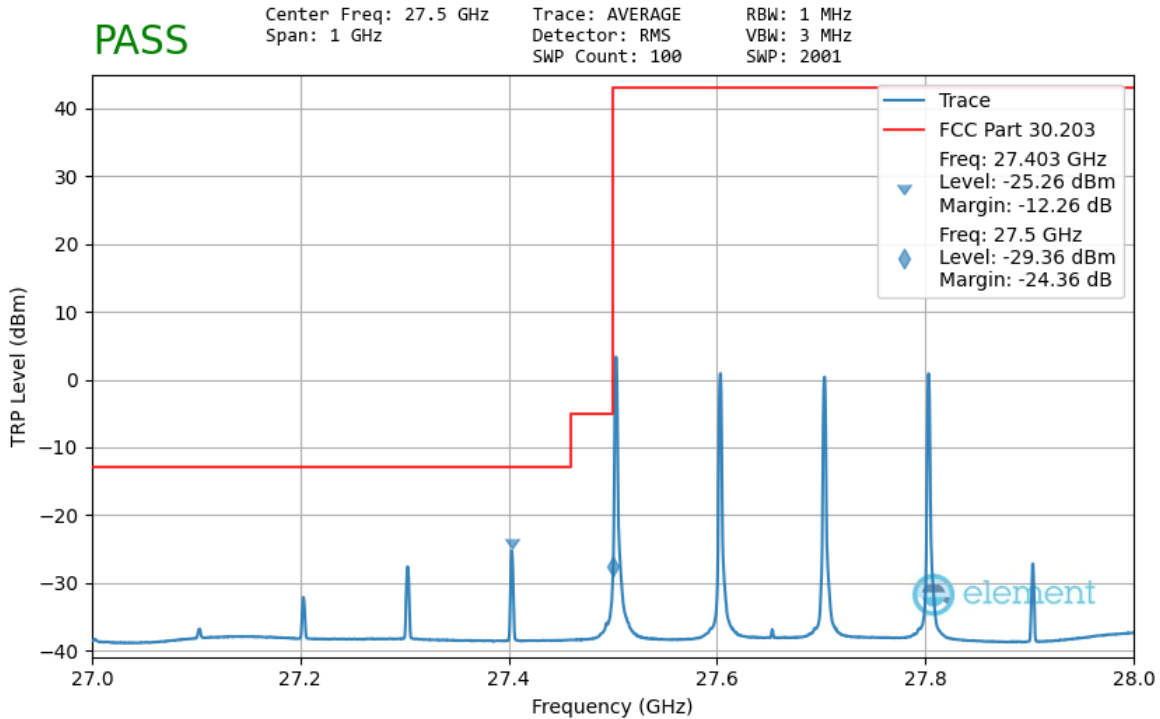


Plot 7-201. M patch Lower Band Edge - TRP (100MHz-3CC – CP-OFDM QPSK 1 RB)

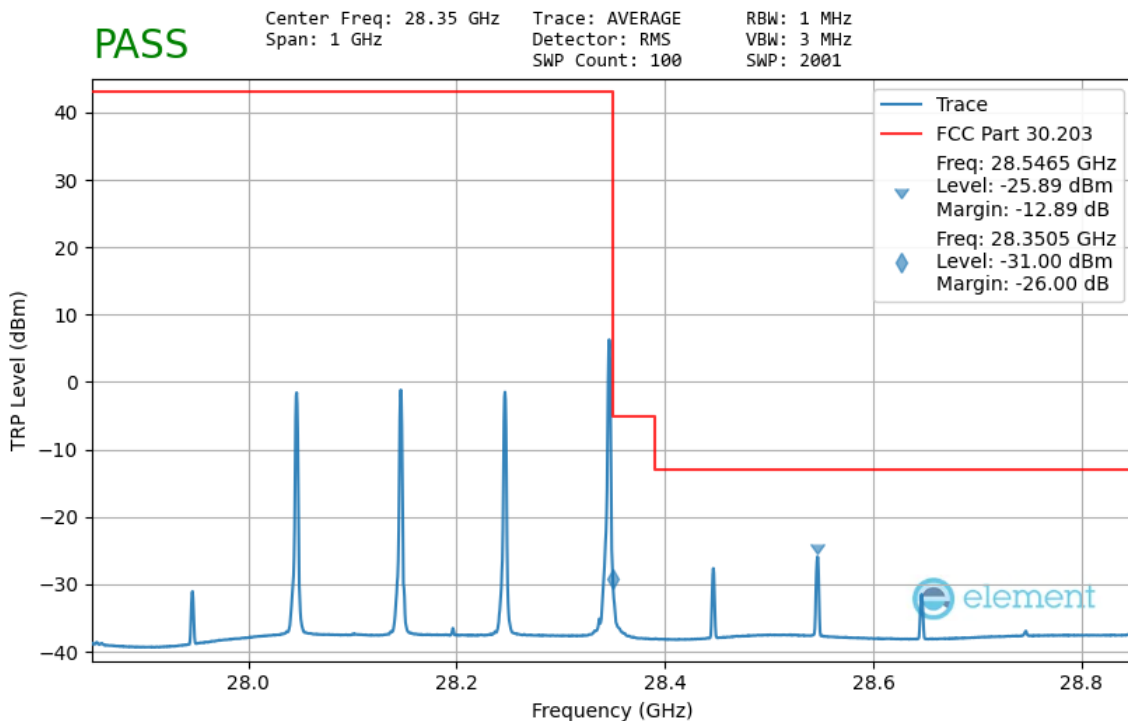


Plot 7-202. M patch Upper Band Edge - TRP (100MHz-3CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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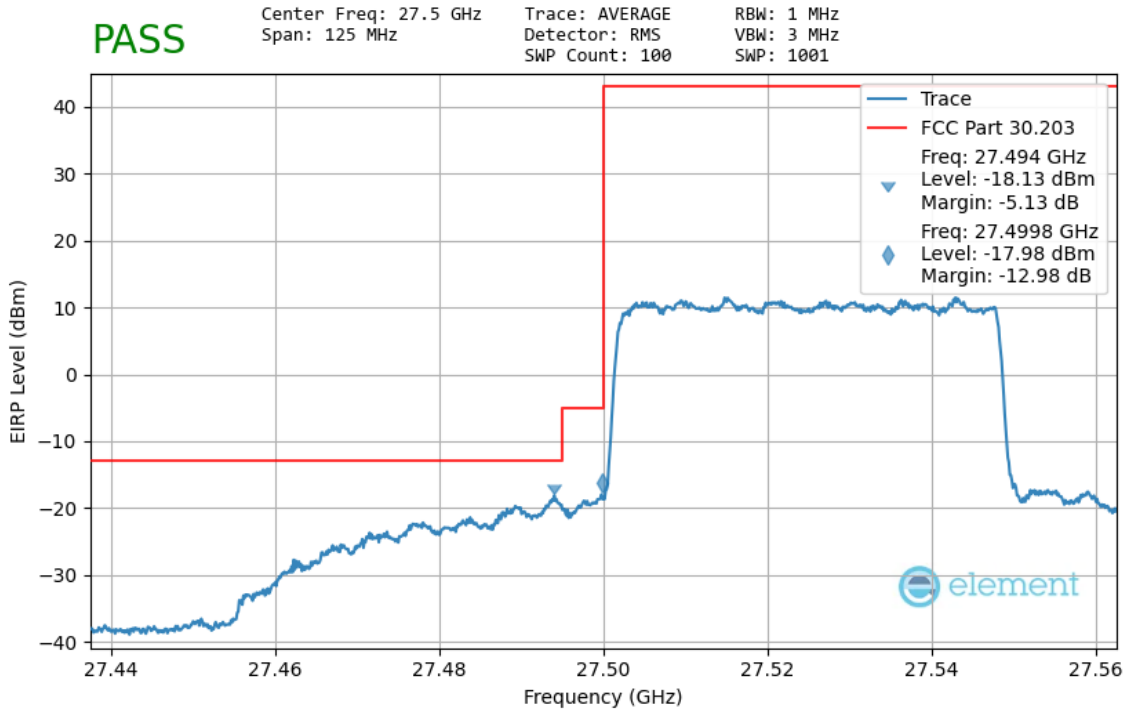
Plot 7-203. M patch Lower Band Edge - TRP (100MHz-4CC – DFT-s-OFDM QPSK 1 RB)



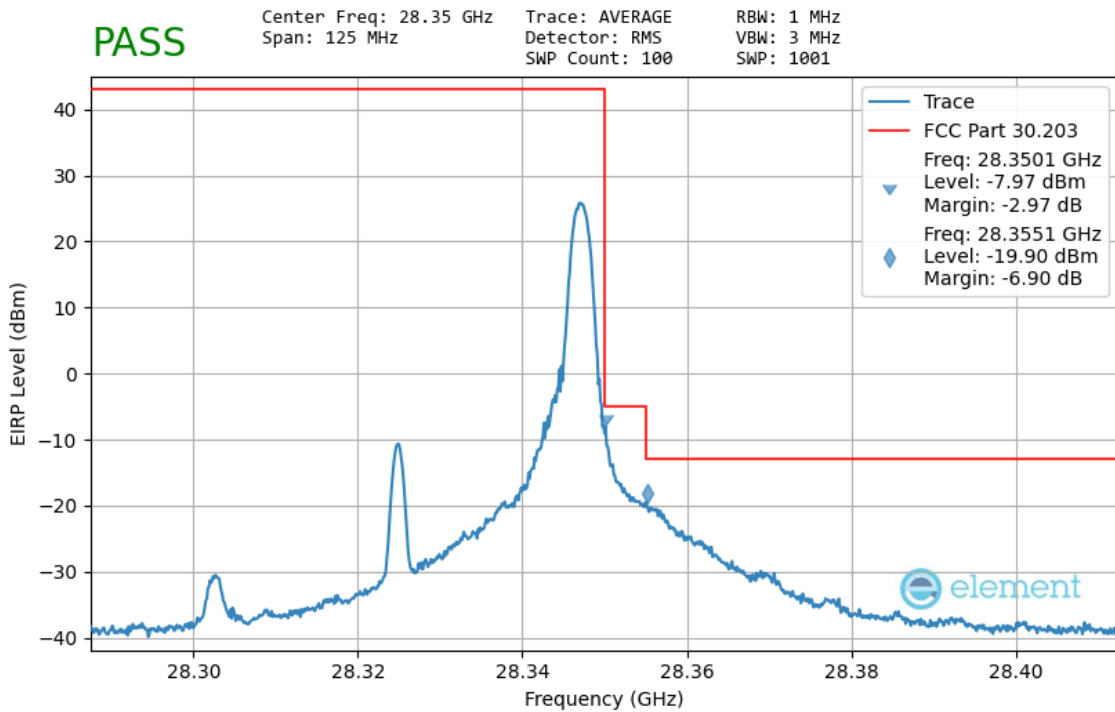
Plot 7-204. M patch Upper Band Edge - TRP (100MHz-4CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Band n261 – N patch – Worst Case

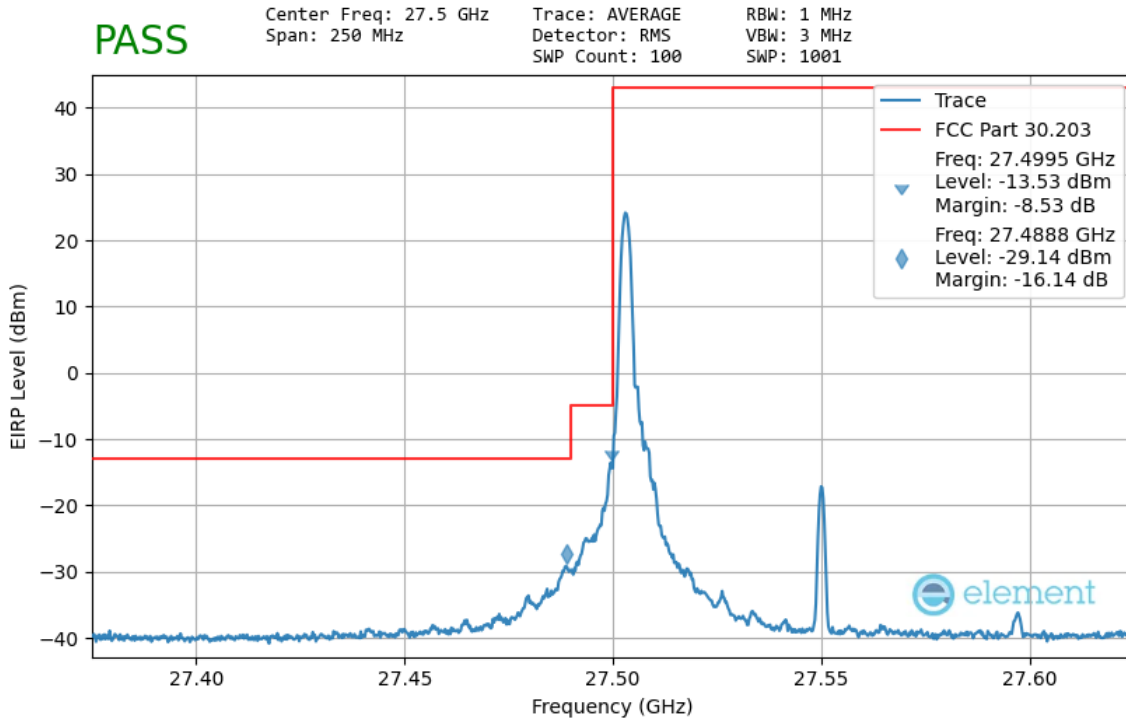


Plot 7-205. N patch Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK Full RB)

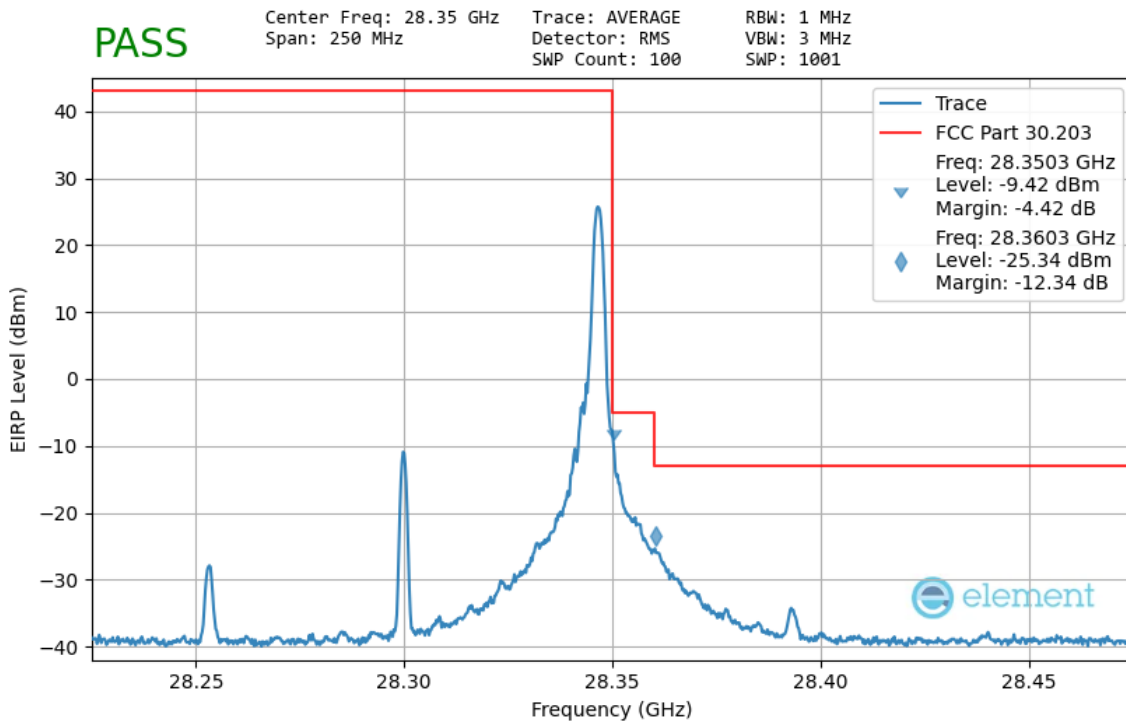


Plot 7-206. N Patch Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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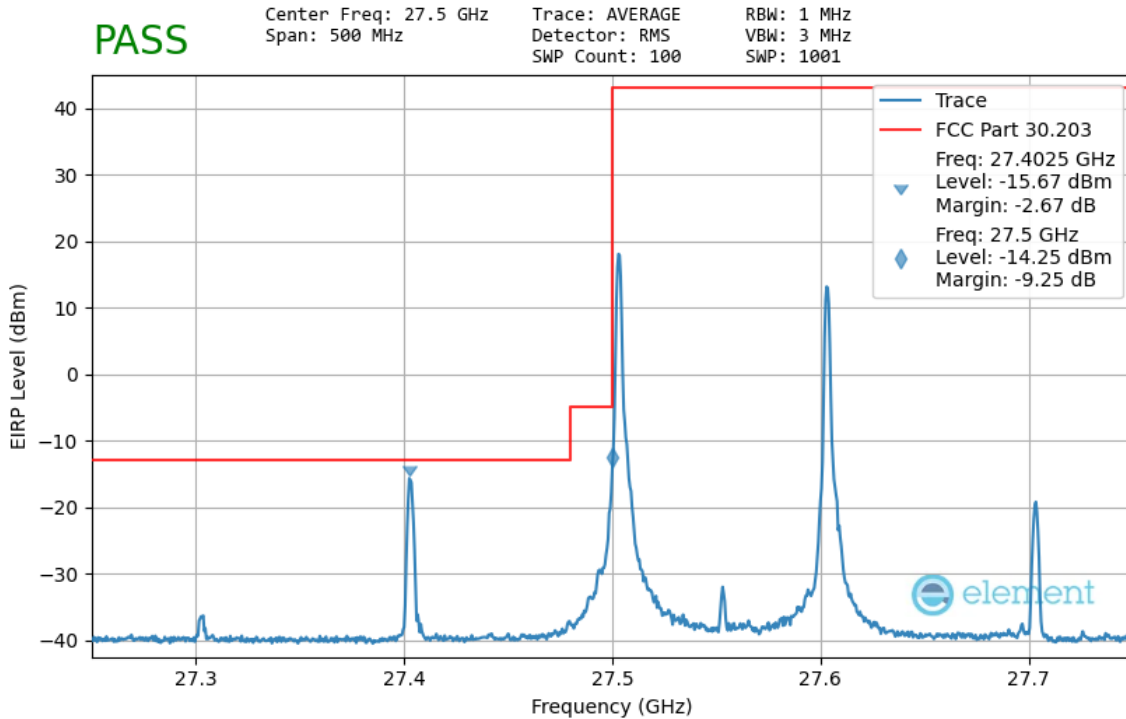


Plot 7-207. N patch Lower Band Edge (100MHz-1CC – DFT-s-OFDM QPSK 1 RB)

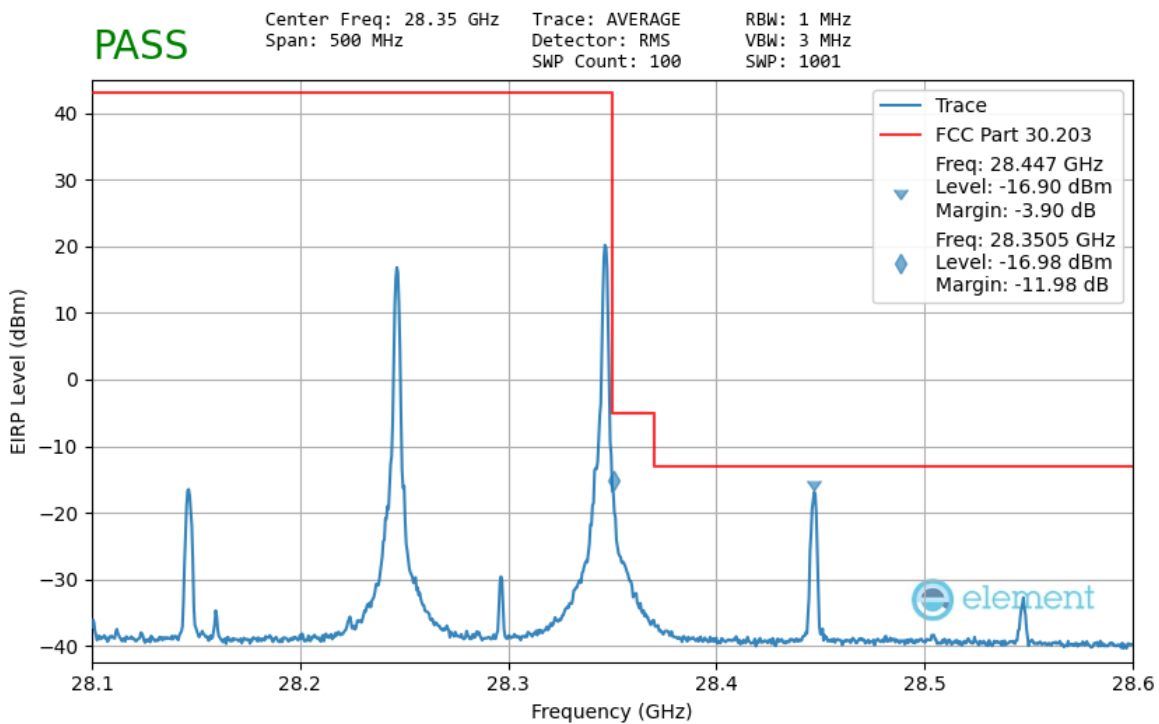


Plot 7-208. N Patch Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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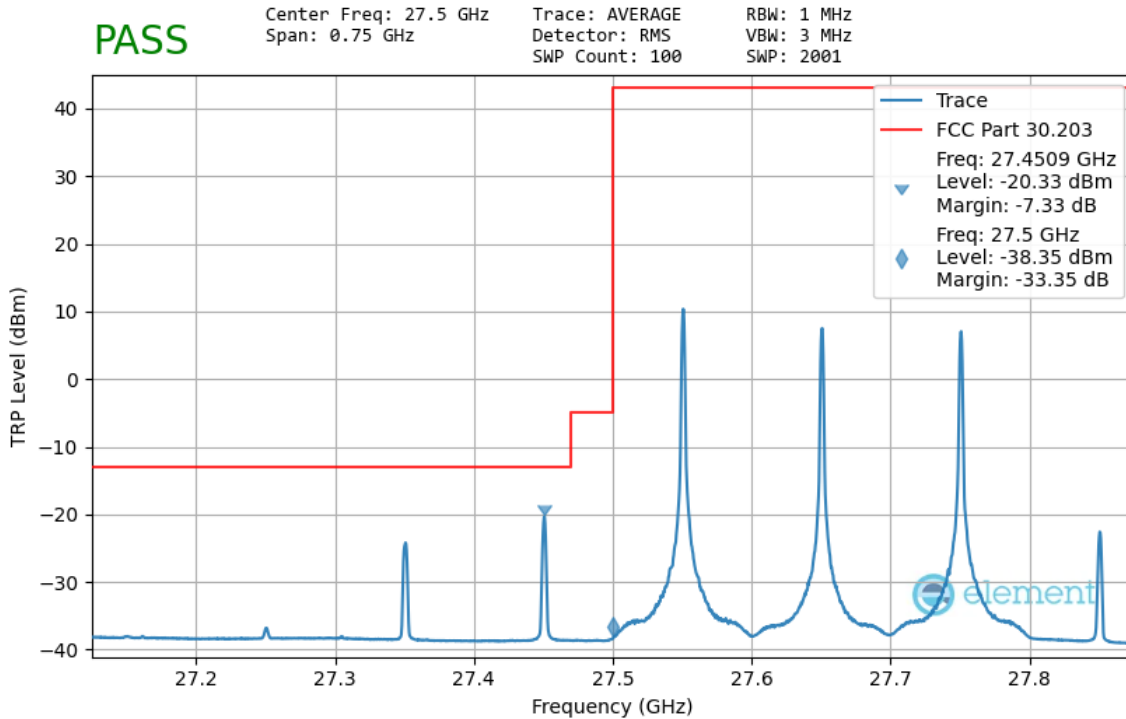


Plot 7-209. N Patch Lower Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)

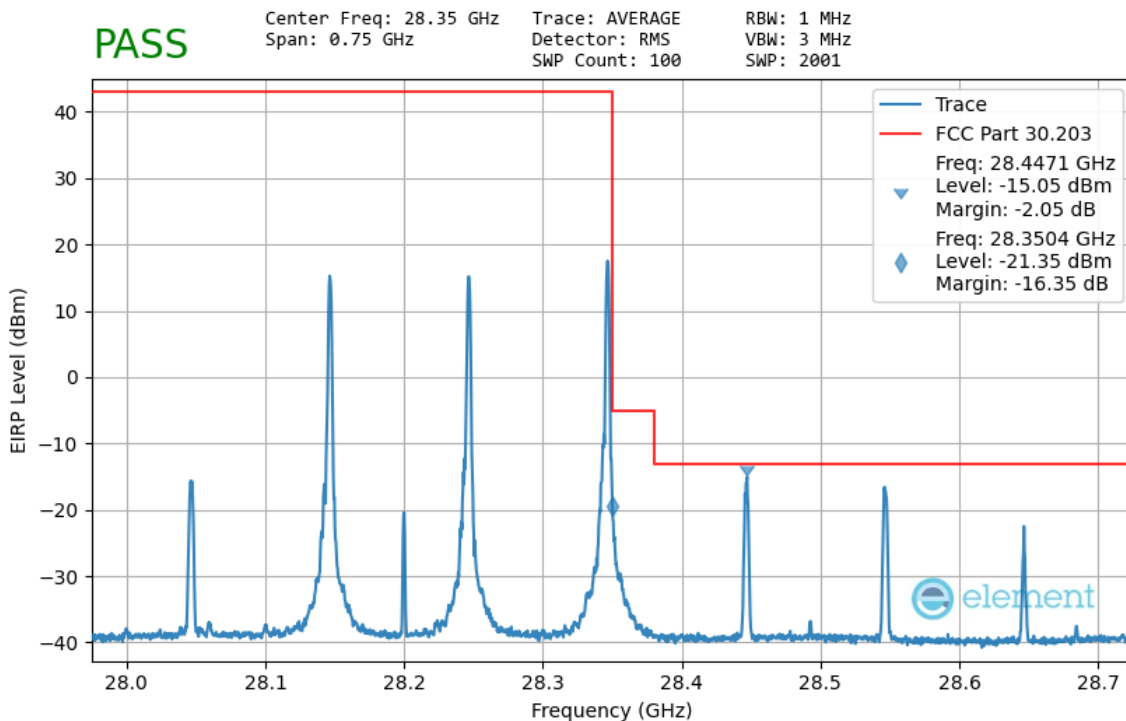


Plot 7-210. N patch Upper Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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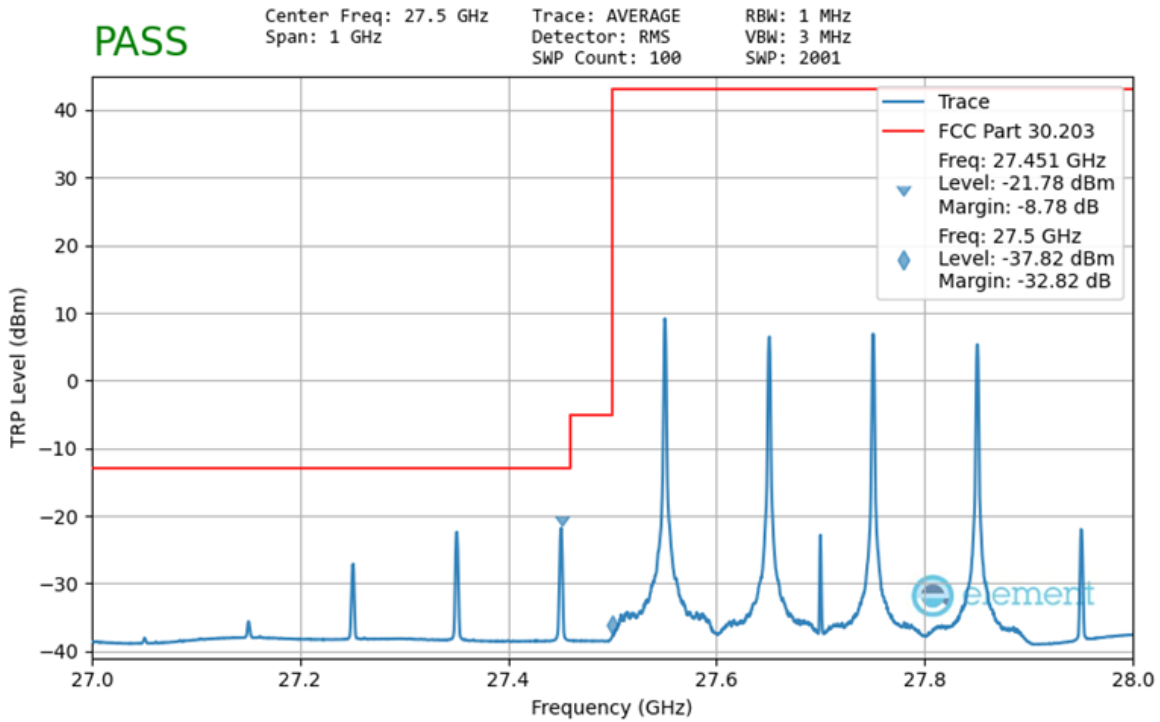


Plot 7-211. N patch Lower Band Edge - TRP (100MHz-3CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

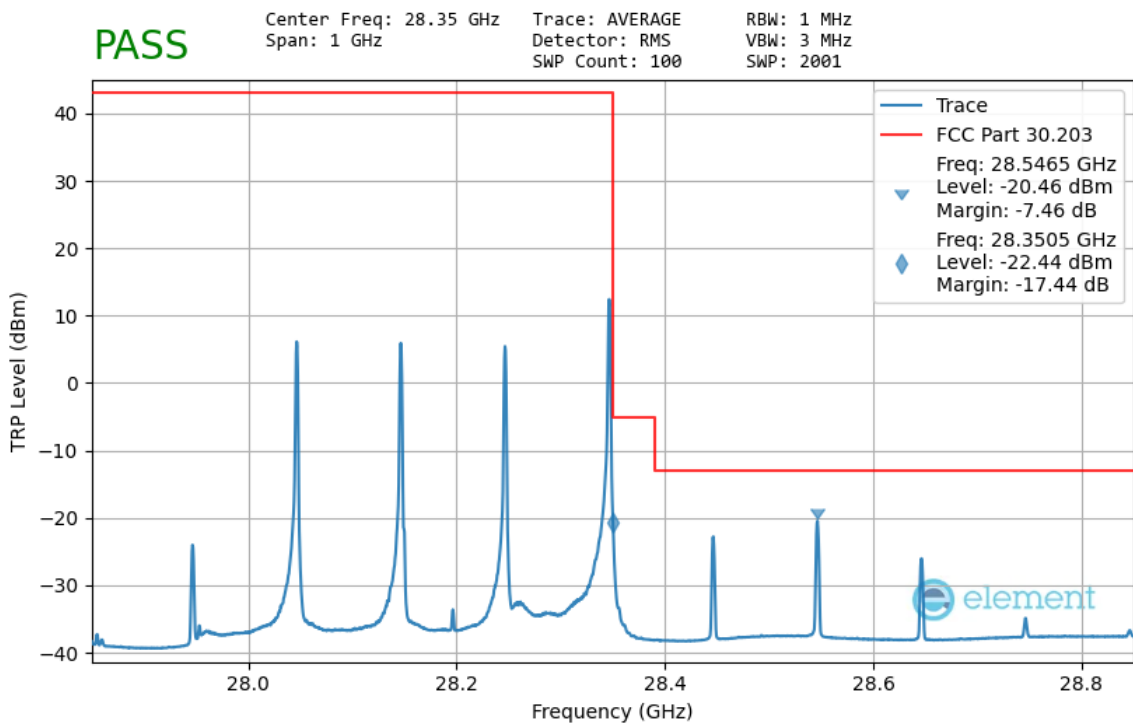


Plot 7-212. N Patch Upper Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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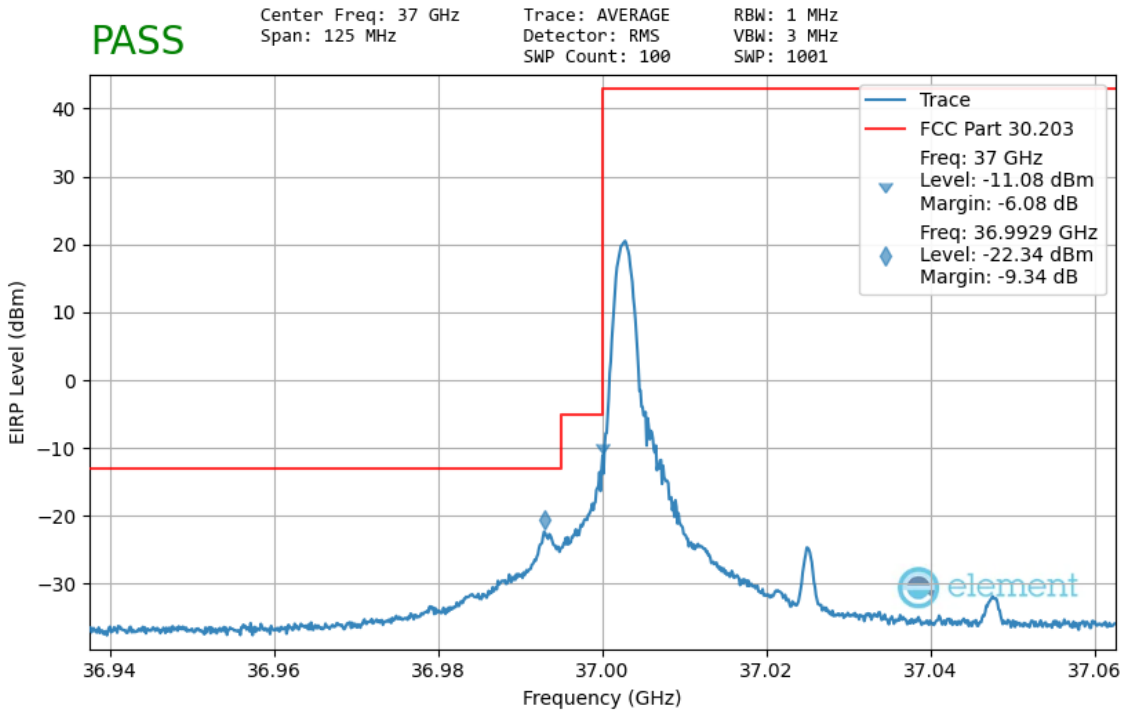
Plot 7-213. N patch Lower Band Edge - TRP (100MHz-4CC – CP-OFDM QPSK 1 RB)



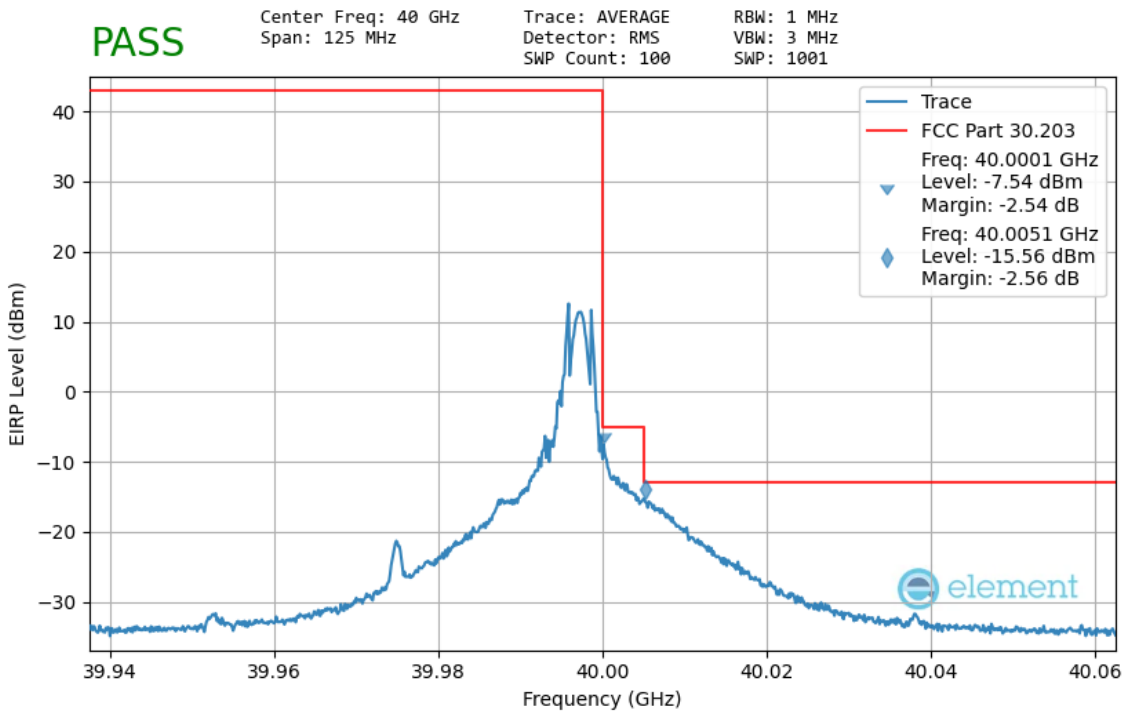
Plot 7-214. N patch Upper Band Edge - TRP (100MHz-4CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Band n260 – M patch – Worst Case

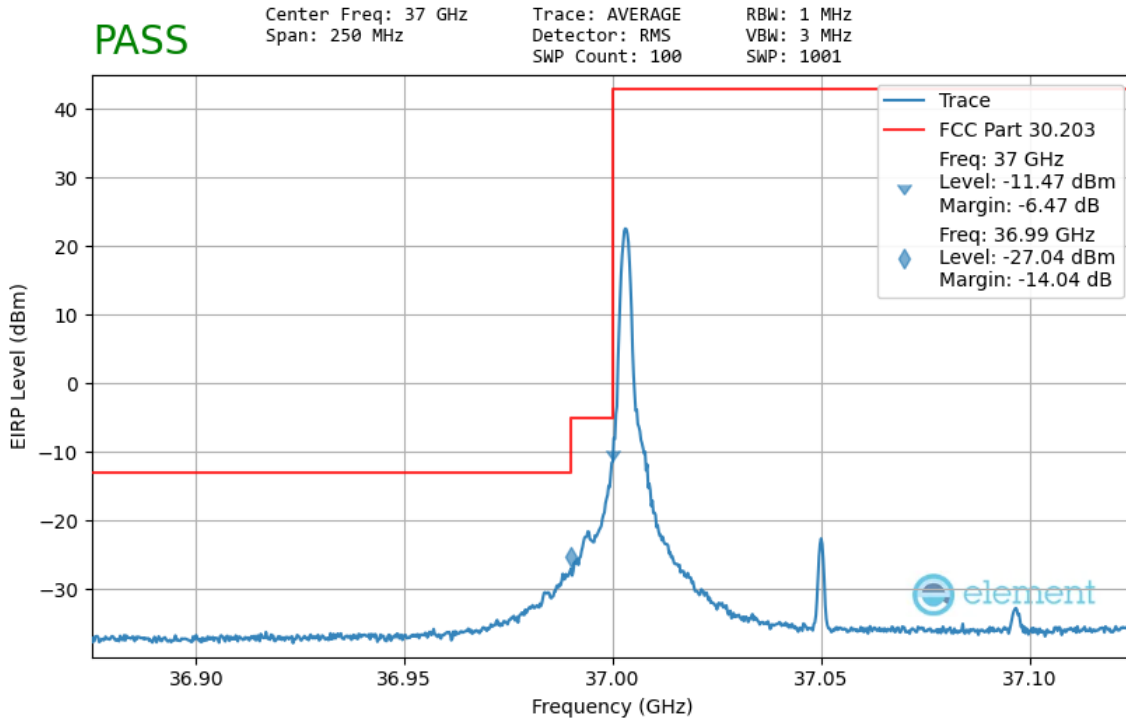


Plot 7-215. M patch Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

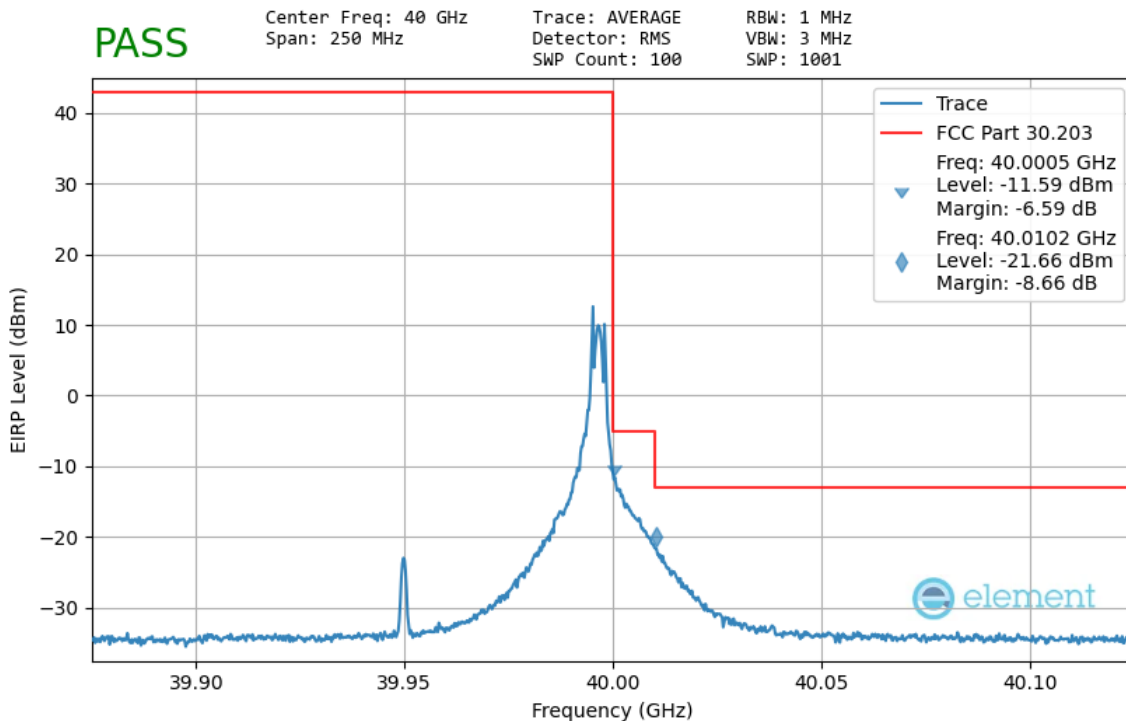


Plot 7-216. M patch Upper Band Edge (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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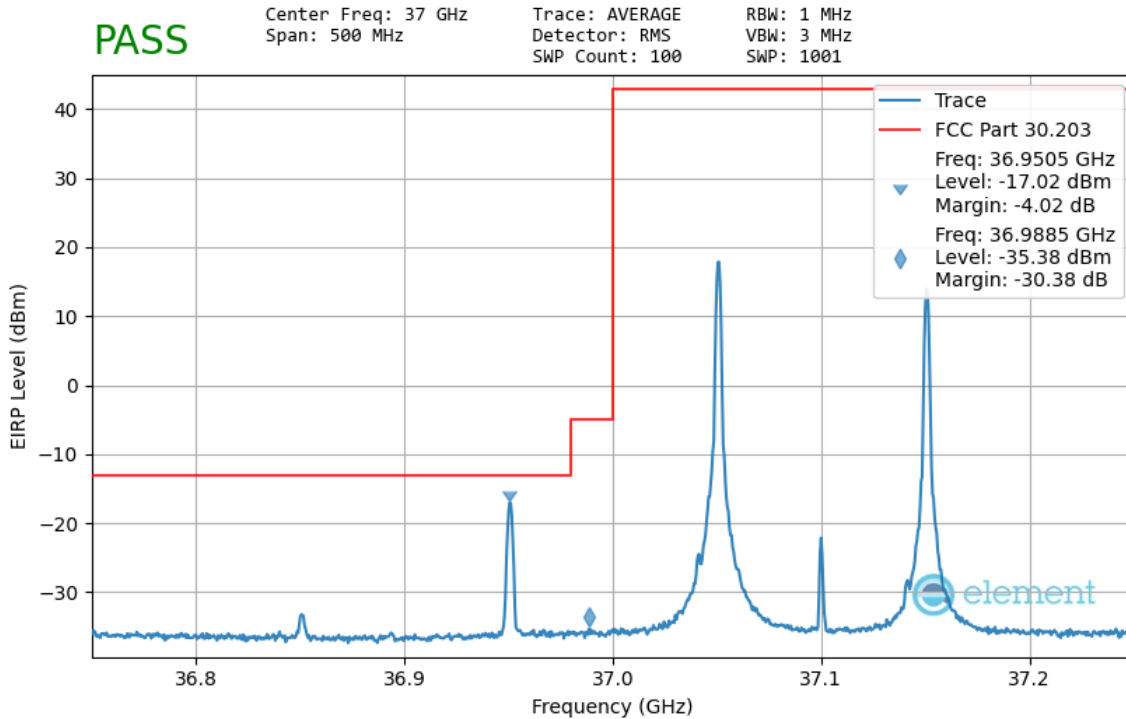


Plot 7-217. M patch Lower Band Edge (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

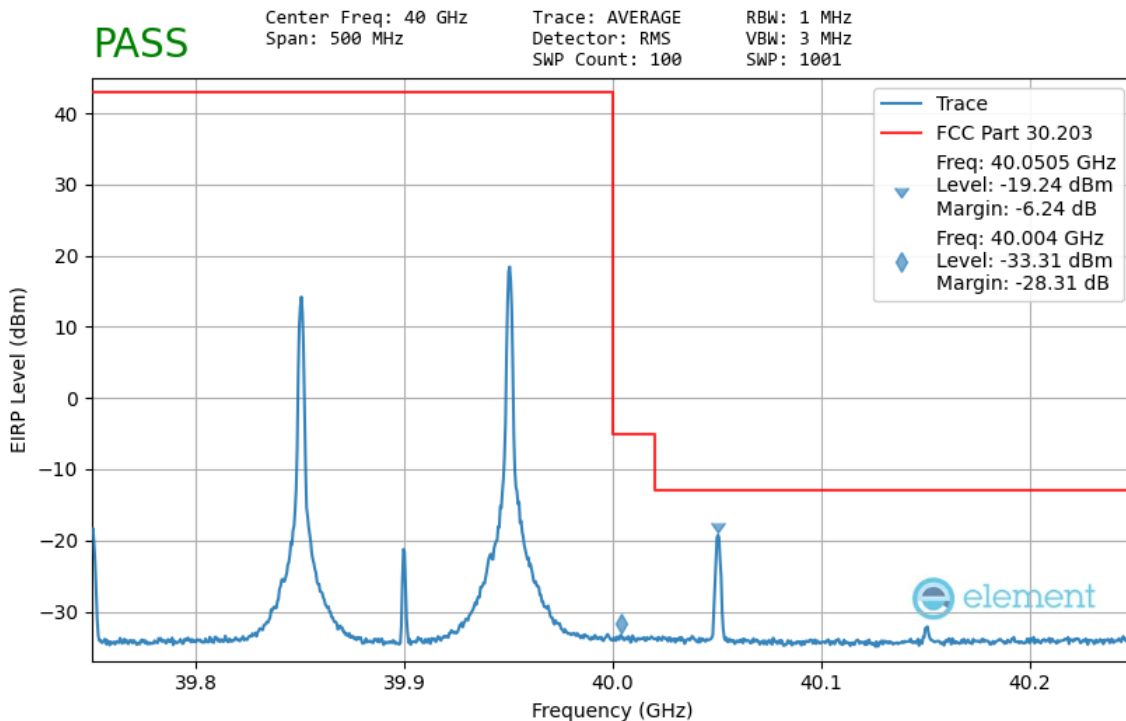


Plot 7-218. M patch Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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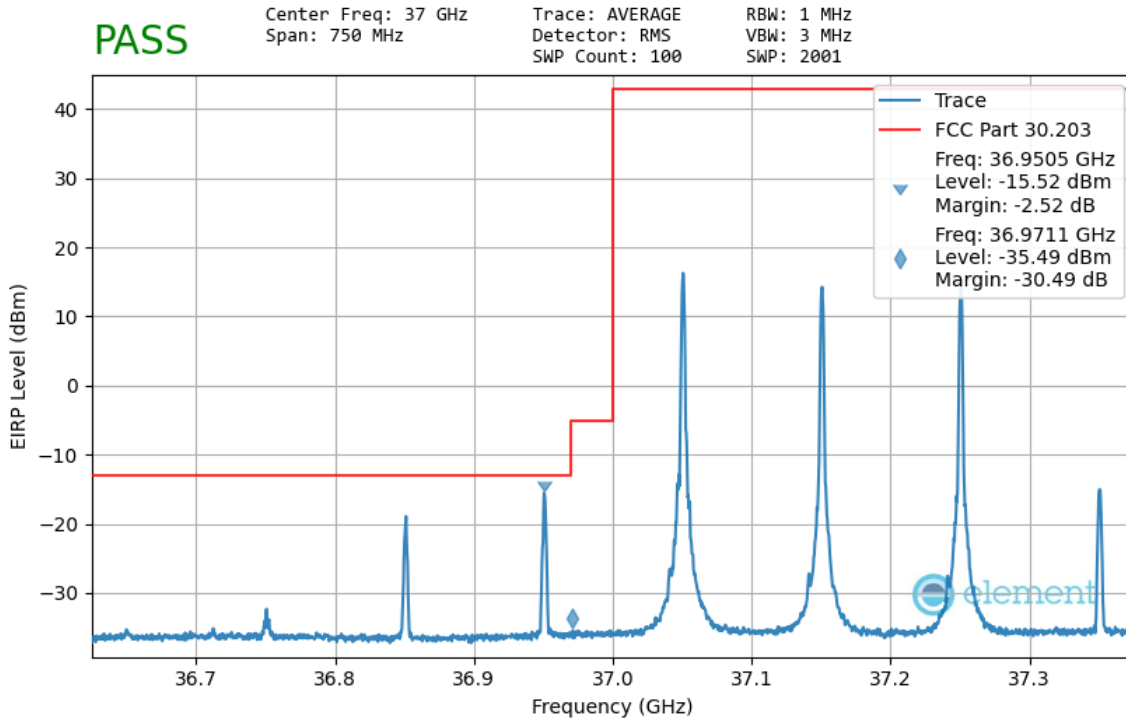


Plot 7-219. M patch Lower Band Edge (100MHz-2CC – DFT-s-OFDM QPSK 1 RB)

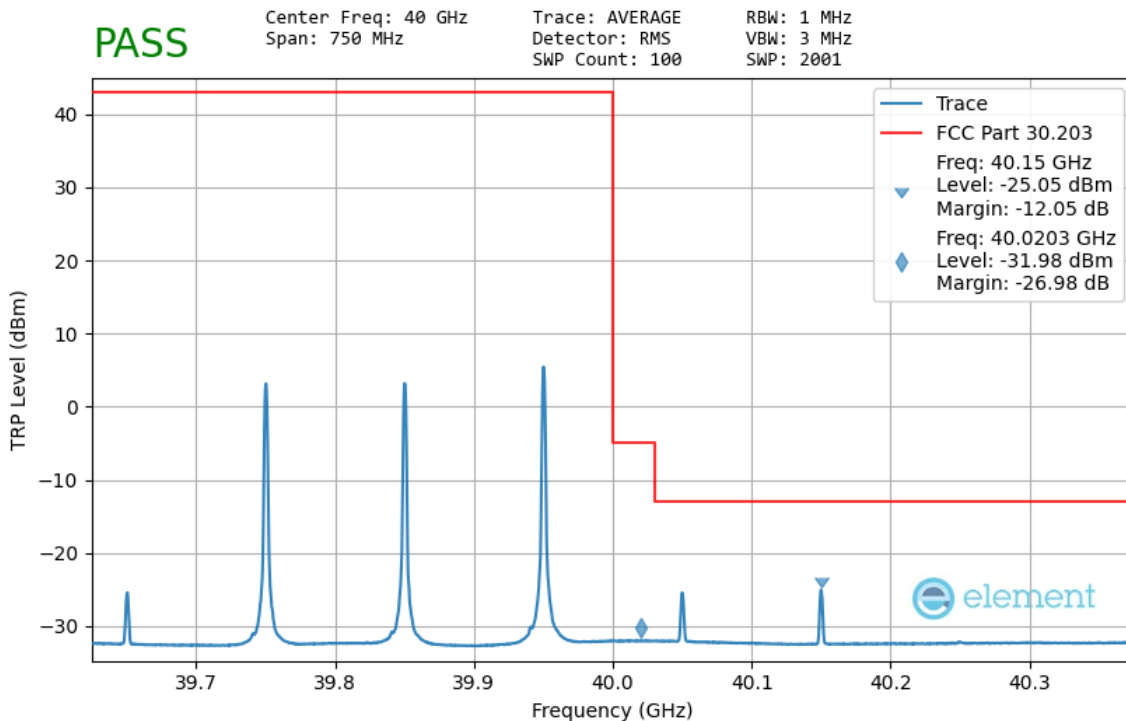


Plot 7-220. M patch Upper Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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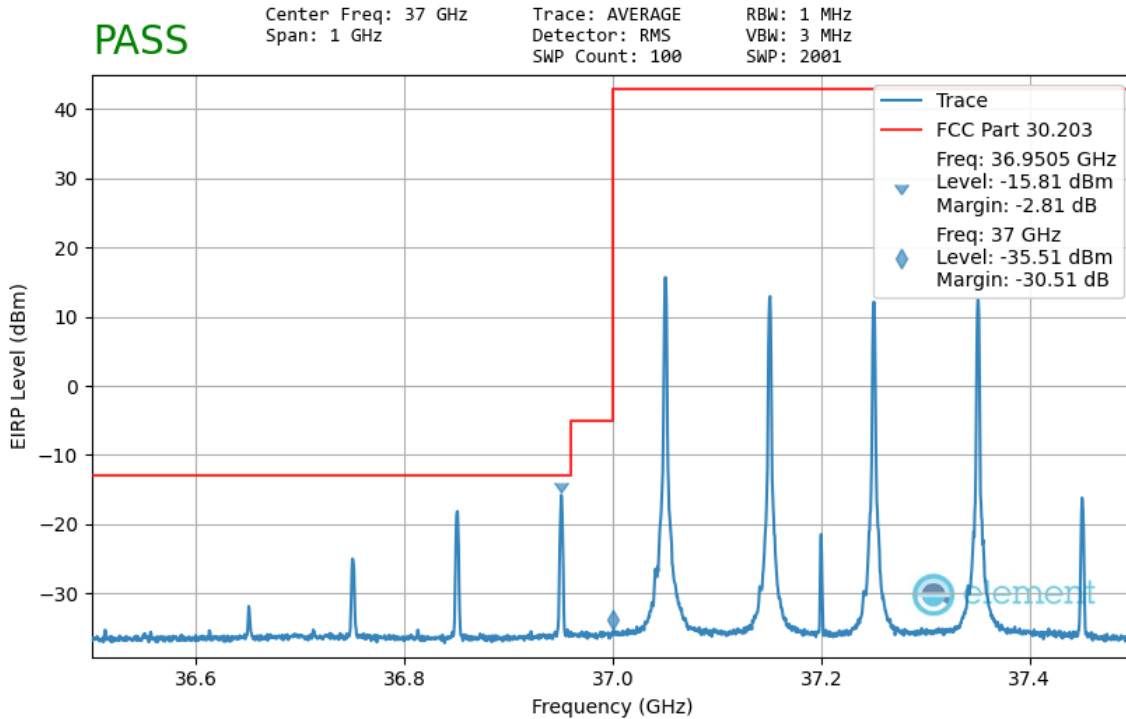


Plot 7-221. M patch Lower Band Edge (100MHz-3CC – CP-OFDM QPSK 1 RB)

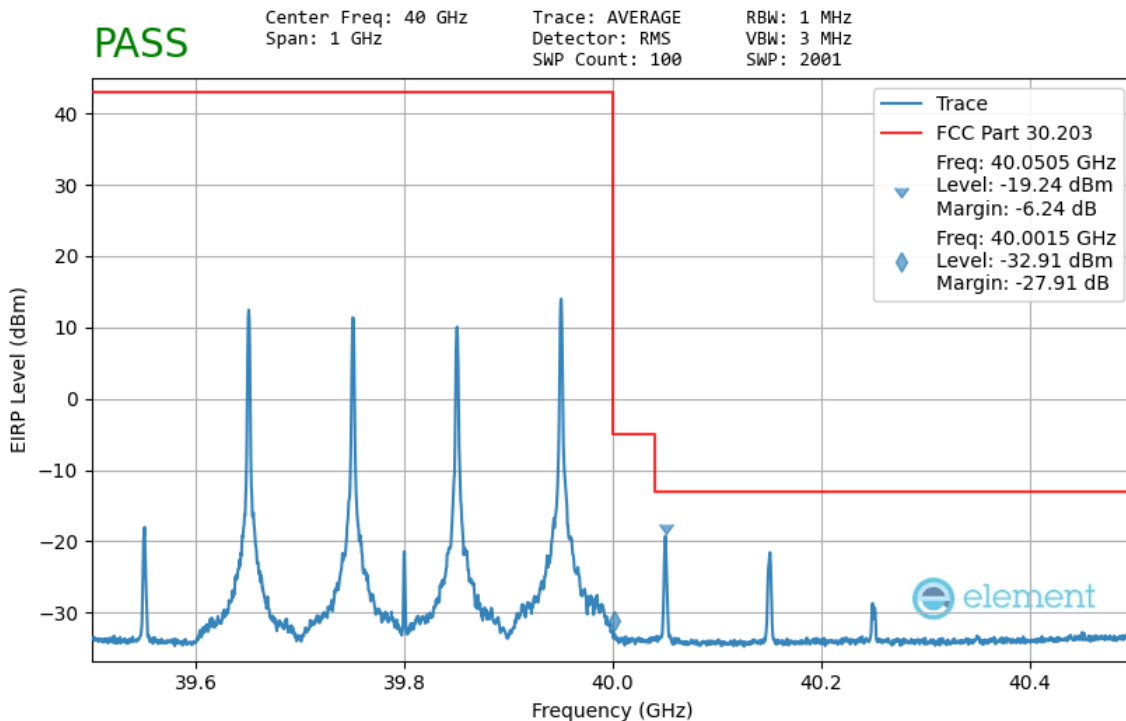


Plot 7-222. M patch Upper Band Edge - TRP (100MHz-3CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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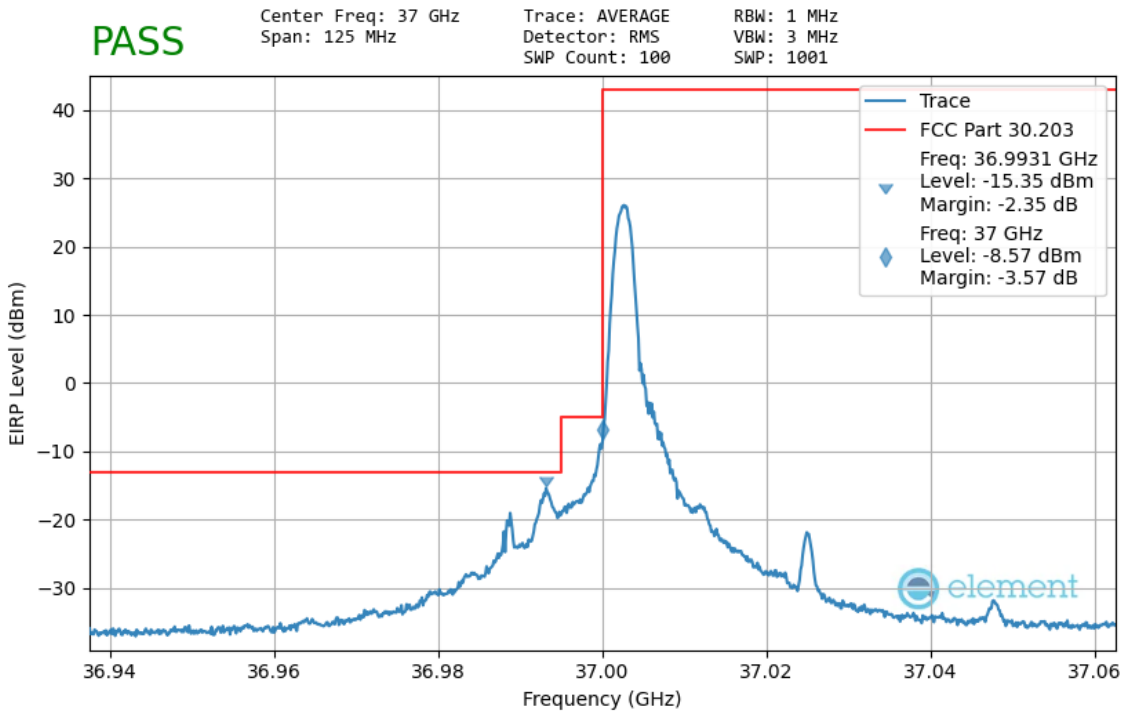
Plot 7-223. M patch Lower Band Edge (100MHz-4CC – DFT-s-OFDM QPSK 1 RB)



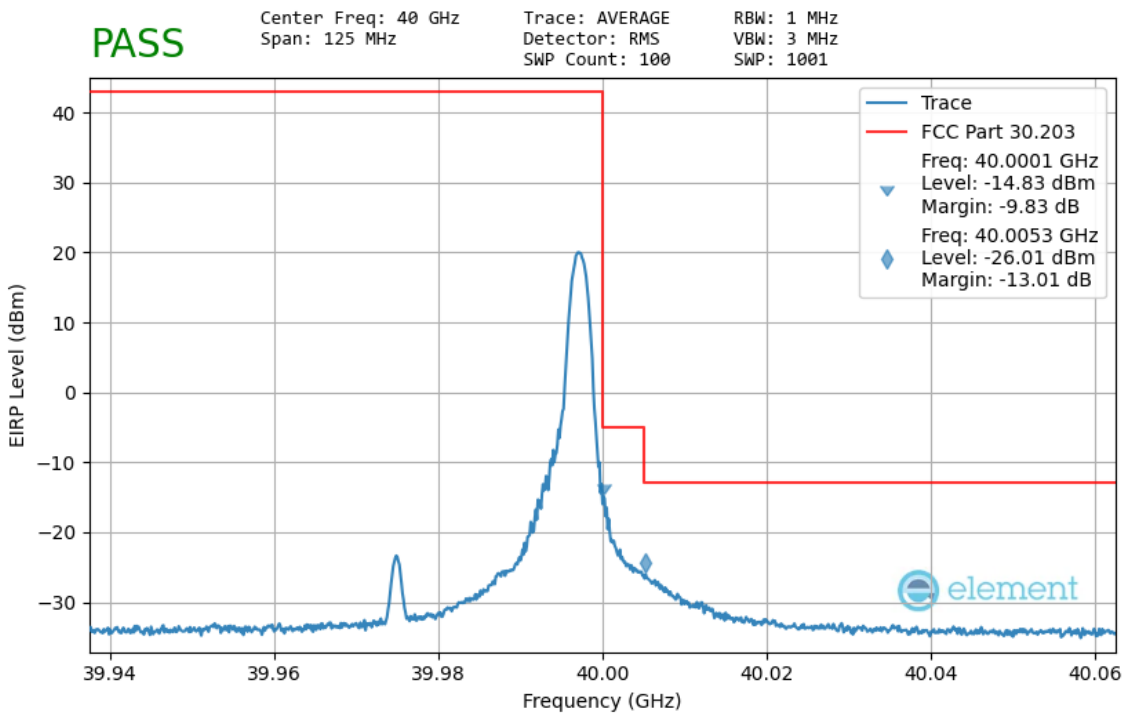
Plot 7-224. M patch Upper Band Edge (100MHz-4CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Band n260 – N patch – Worst Case

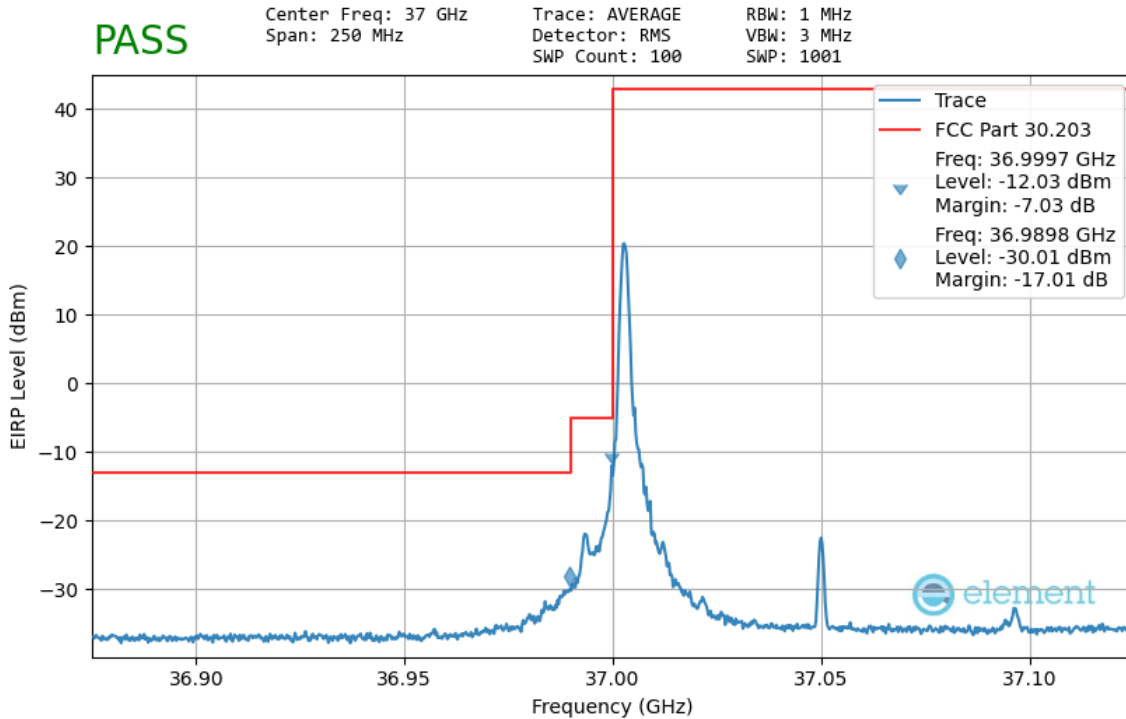


Plot 7-225. N patch Lower Band Edge (50MHz-1CC – DFT-s-OFDM QPSK 1 RB)

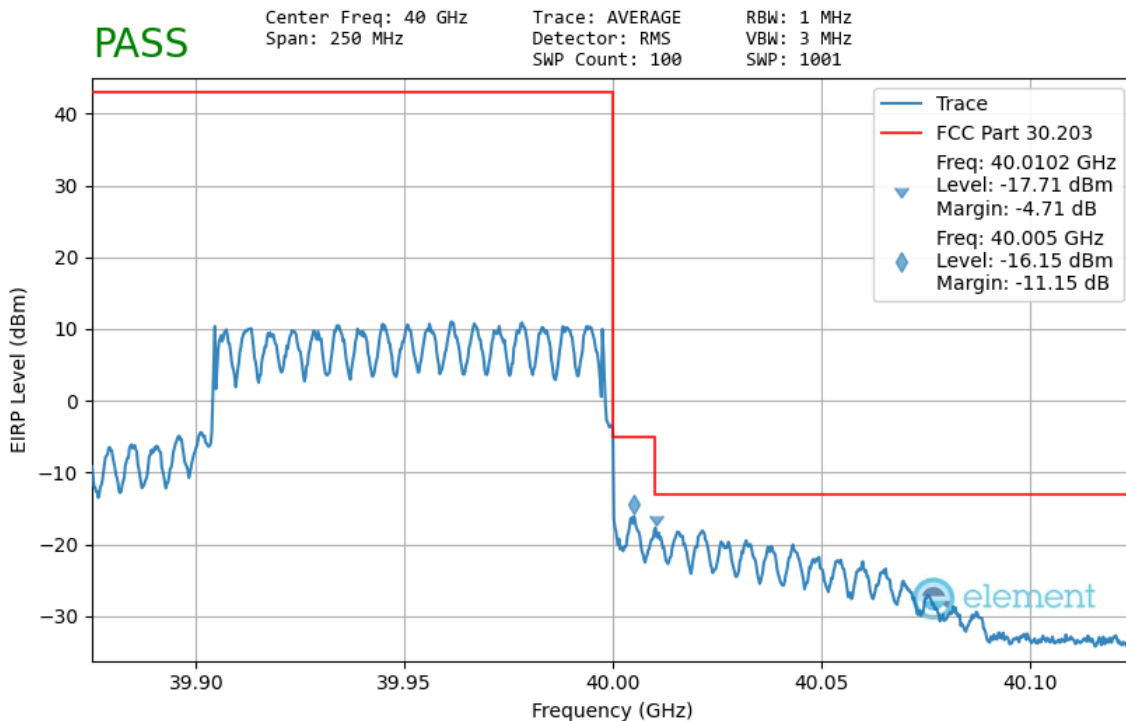


Plot 7-226. N patch Upper Band Edge (50MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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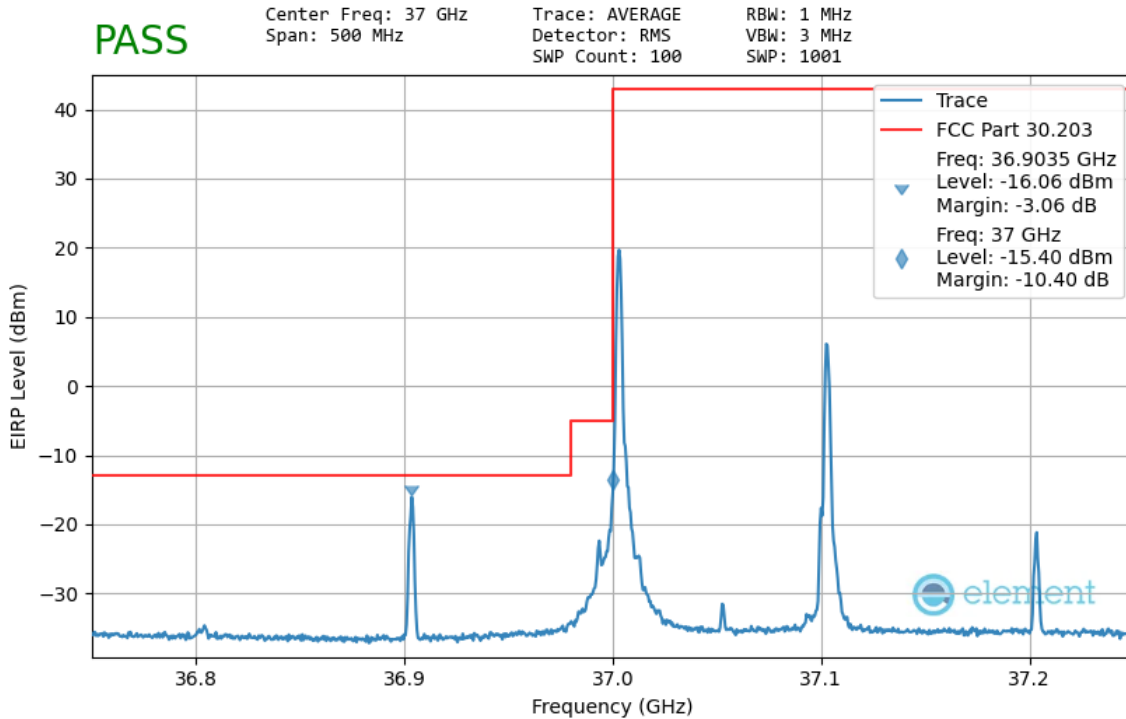


Plot 7-227. N patch Lower Band Edge (100MHz-1CC – DFT-s-OFDM $\pi/2$ BPSK 1 RB)

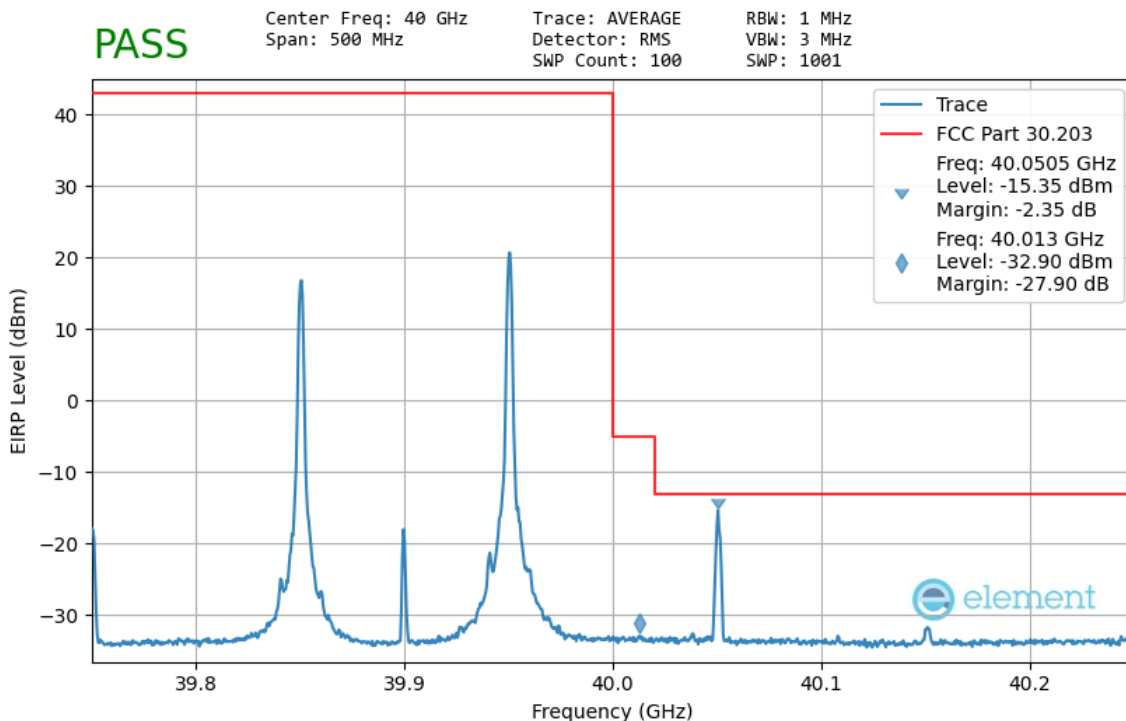


Plot 7-228. N patch Upper Band Edge (100MHz-1CC – DFT-s-OFDM QPSK Full RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-229. N patch Lower Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)



Plot 7-230. N patch Upper Band Edge (100MHz-2CC – CP-OFDM QPSK 1 RB)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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