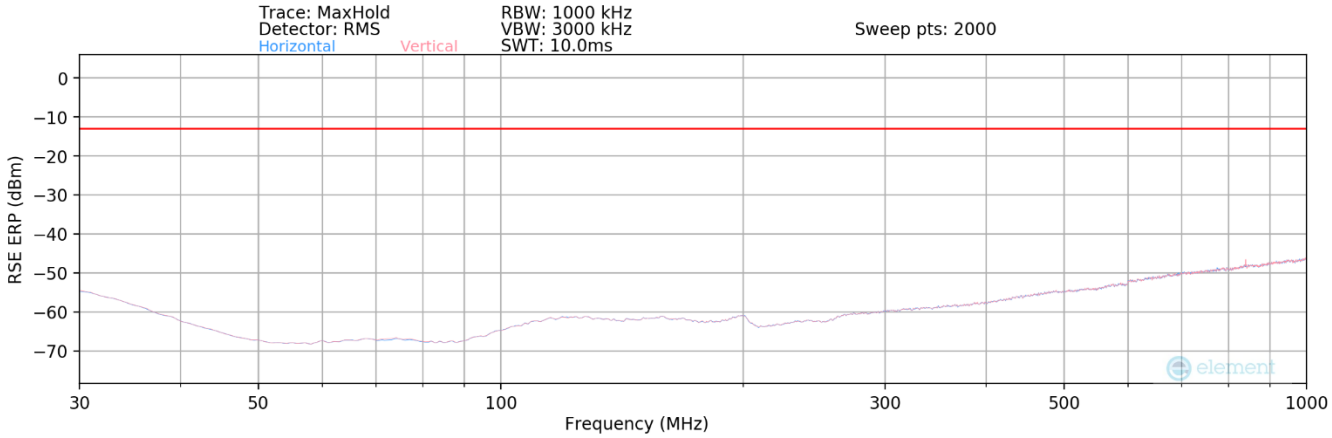
Band n260 – Ant 1

30MHz - 1GHz



Plot 7-211. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2)

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.

RSE ERP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 – 2.15 (dB)

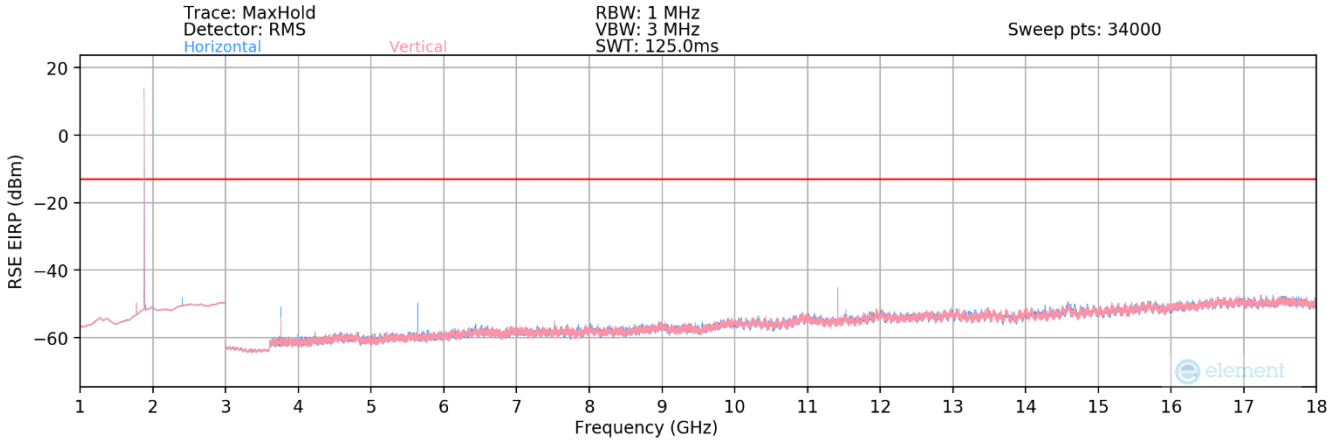
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
716.16	Low	50	2Tx	QPSK	V	-	-	-49.29	-13.00	-36.29
839.95	Mid	50	2Tx	QPSK	V	-	-	-47.11	-13.00	-34.11
945.66	High	50	2Tx	QPSK	V	-	-	-45.68	-13.00	-32.68

Table 7-85. Ant 1 - n260 Radiated Spurious Emissions Table (30MHz - 1GHz)

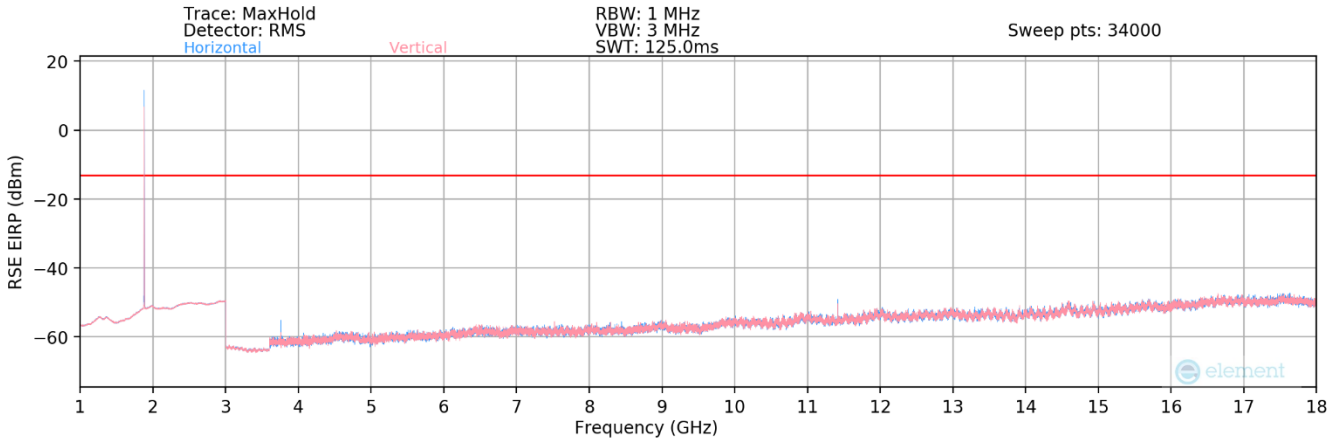
Notes

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.

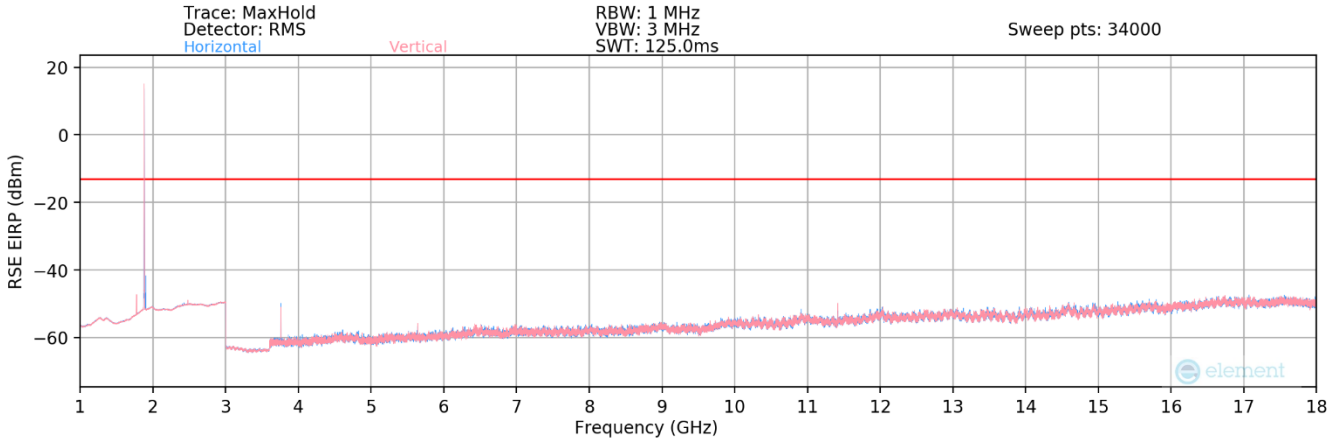
1GHz - 18GHz



Plot 7-212. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-213. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-214. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8

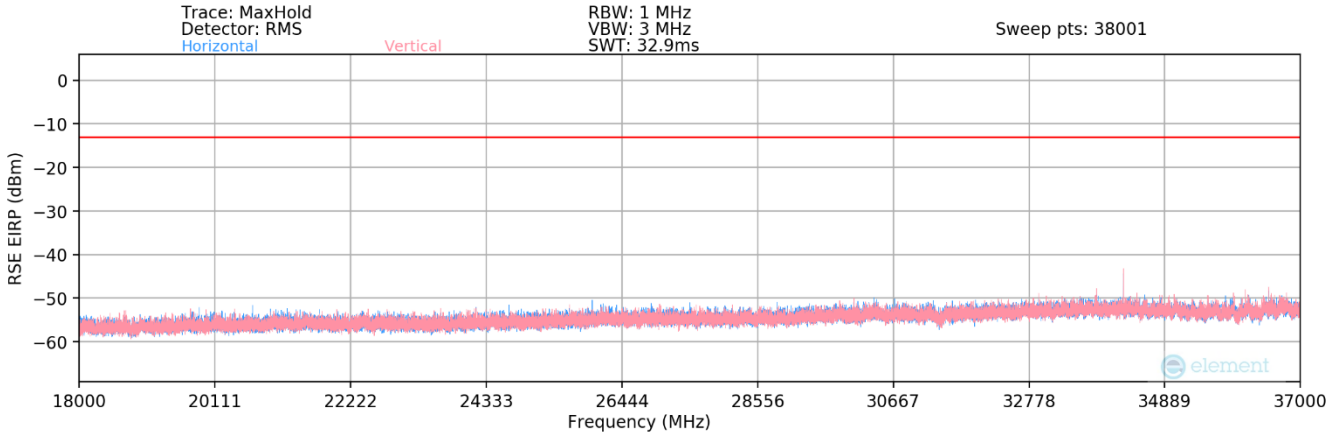
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
11220.80	Low	50	2Tx	QPSK	V	157	125	-43.42	-13.00	-30.42
11415.58	Mid	50	2Tx	QPSK	V	155	123	-43.11	-13.00	-30.11
11713.30	High	50	2Tx	QPSK	V	154	120	-39.86	-13.00	-26.86

Table 7-86. Ant 1 - n260 Radiated Spurious Emissions Table (1GHz - 18GHz)

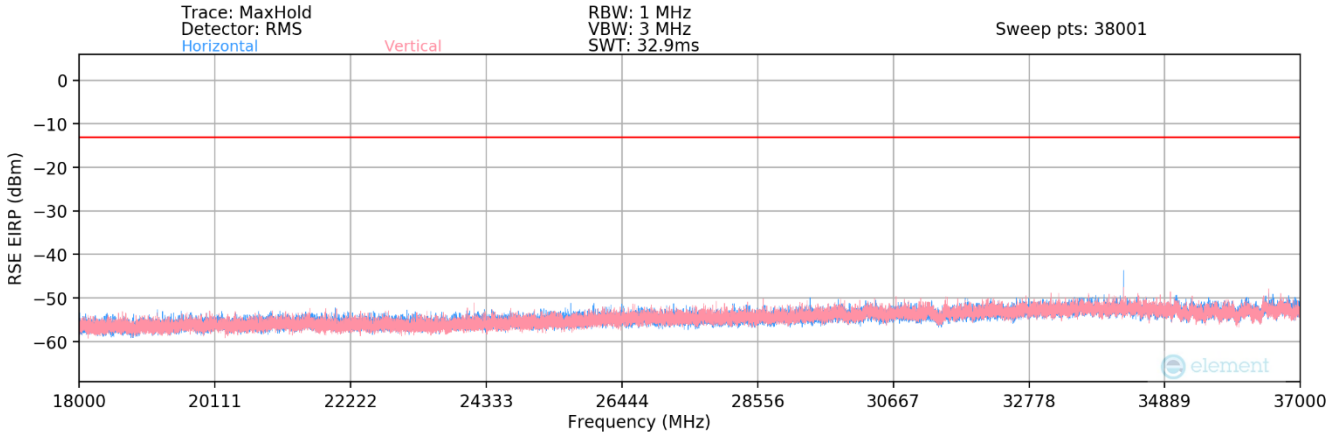
Notes

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.

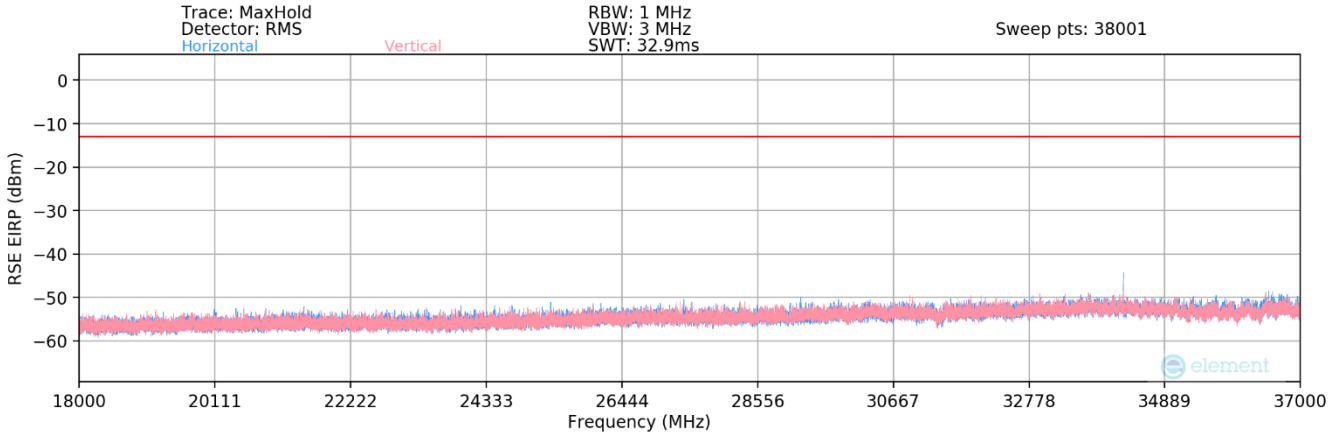
18GHz - 37GHz



Plot 7-215. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-216. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-217. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8

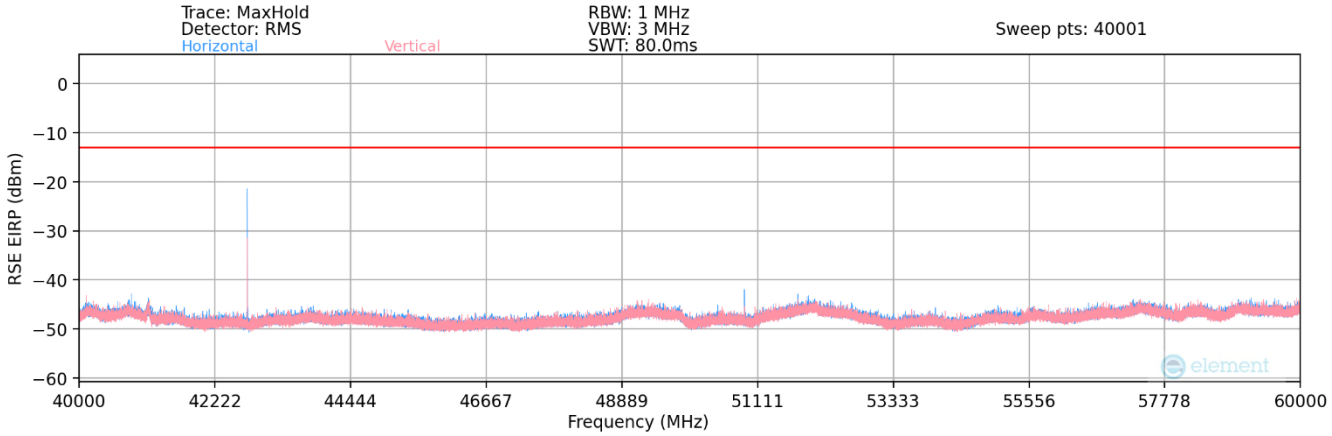
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
33663.50	Low	50	2Tx	QPSK	V	336	150	-45.14	-13.00	-32.14
34247.00	Mid	50	2Tx	QPSK	V	314	150	-45.20	-13.00	-32.20
35139.50	High	50	2Tx	QPSK	V	309	150	-40.32	-13.00	-27.32

Table 7-87. Ant 1 - n260 Radiated Spurious Emissions Table (18GHz - 37GHz)

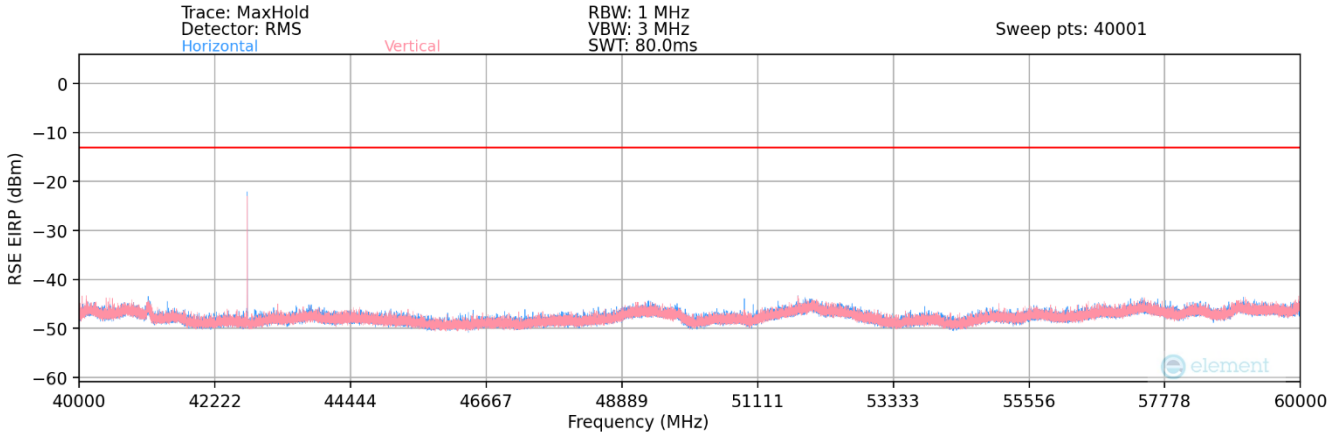
Notes

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.

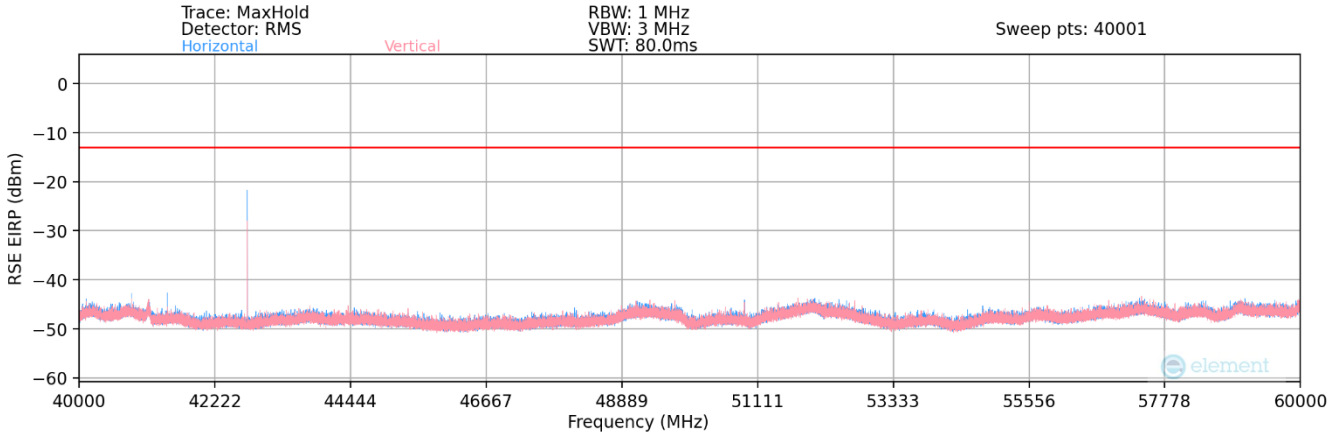
40GHz - 60GHz



Plot 7-218. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-219. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-220. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

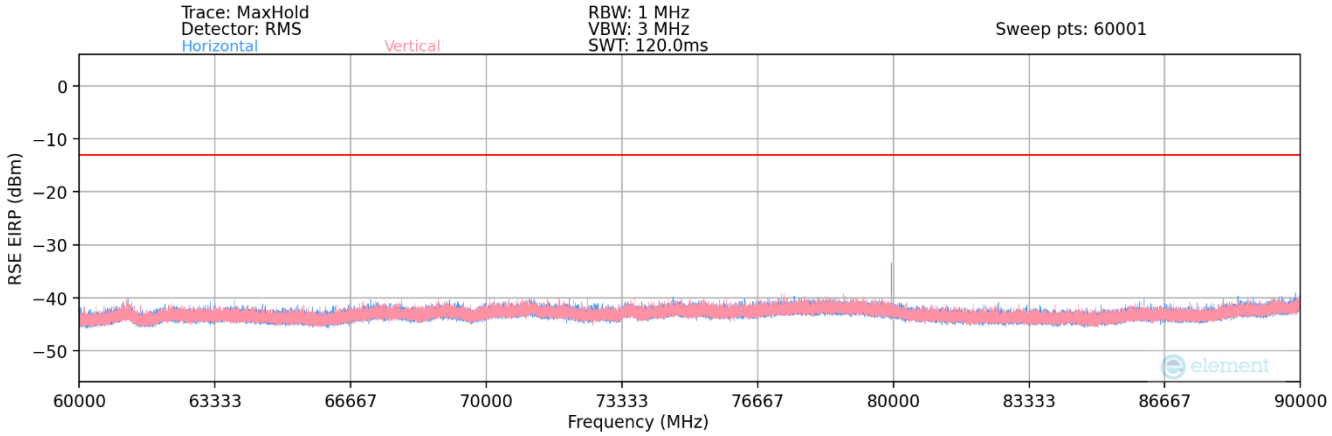
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
40386.75	Low	50	2Tx	QPSK	H	293	258	-29.60	-13.00	-16.60
49805.87	Low	50	2Tx	QPSK	H	112	37	-40.34	-13.00	-27.34
42753.00	Mid	50	2Tx	QPSK	H	292	262	-18.40	-13.00	-5.40
50888.70	Mid	50	2Tx	QPSK	H	118	41	-45.19	-13.00	-32.19
44811.25	High	50	2Tx	QPSK	H	288	261	-18.89	-13.00	-5.89
52861.47	High	50	2Tx	QPSK	H	-	-	-47.30	-13.00	-34.30

Table 7-88. Ant 1 - n260 Radiated Spurious Emissions Table (40GHz - 60GHz)

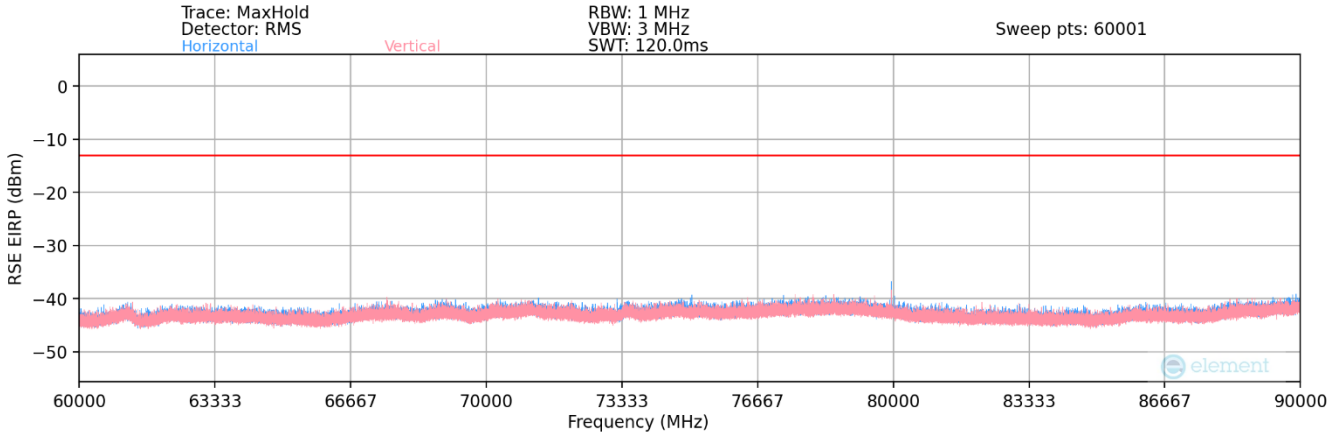
Notes

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.

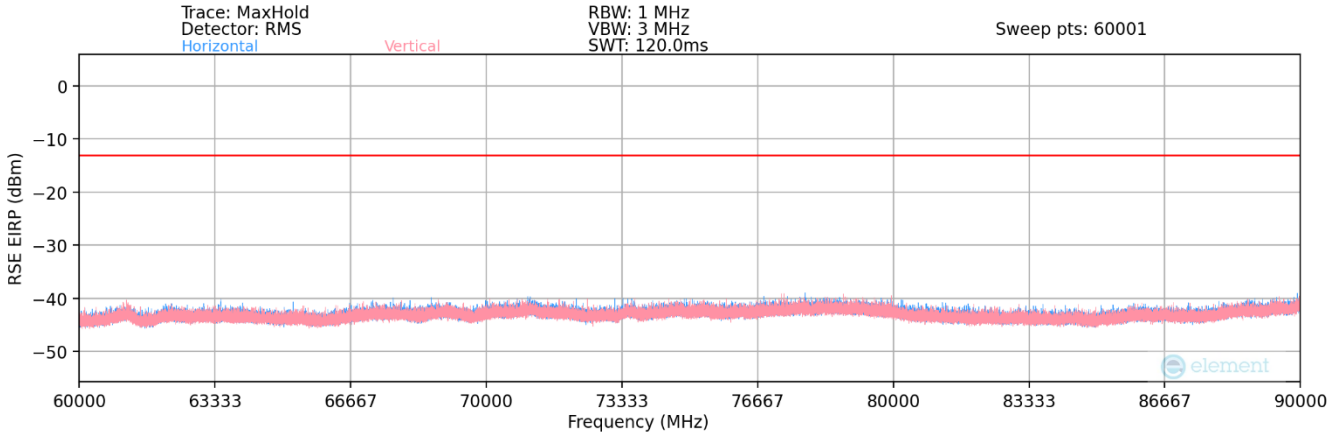
60GHz - 90GHz



Plot 7-221. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-222. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-223. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

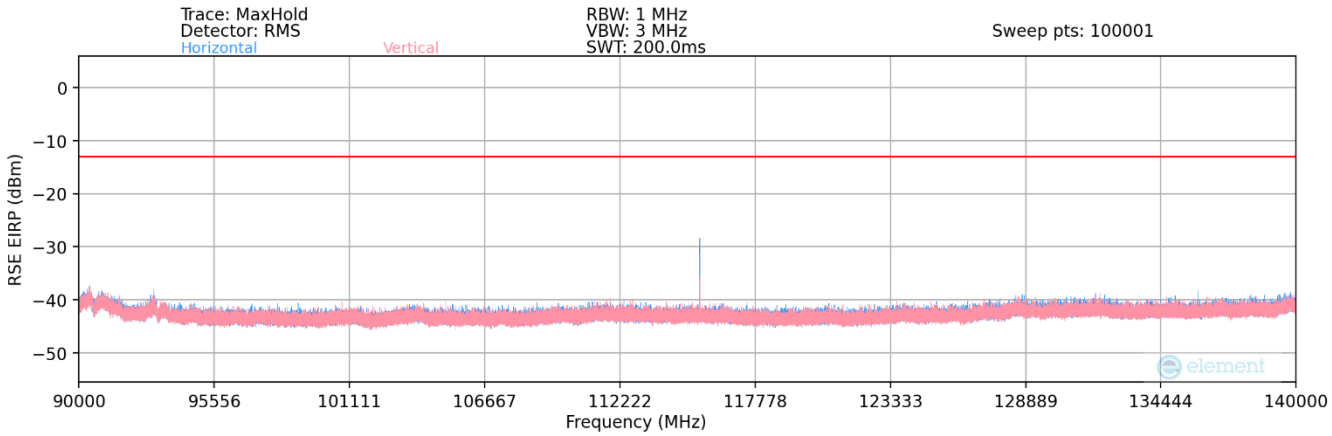
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74050.08	Low	50	2Tx	QPSK	H	120	247	-45.34	-13.00	-32.34
76999.92	Mid	50	2Tx	QPSK	H	124	251	-44.54	-13.00	-31.54
79950.00	High	50	2Tx	QPSK	H	117	245	-37.24	-13.00	-24.24

Table 7-89. Ant 1 - n260 Radiated Spurious Emissions Table (60GHz - 90GHz)

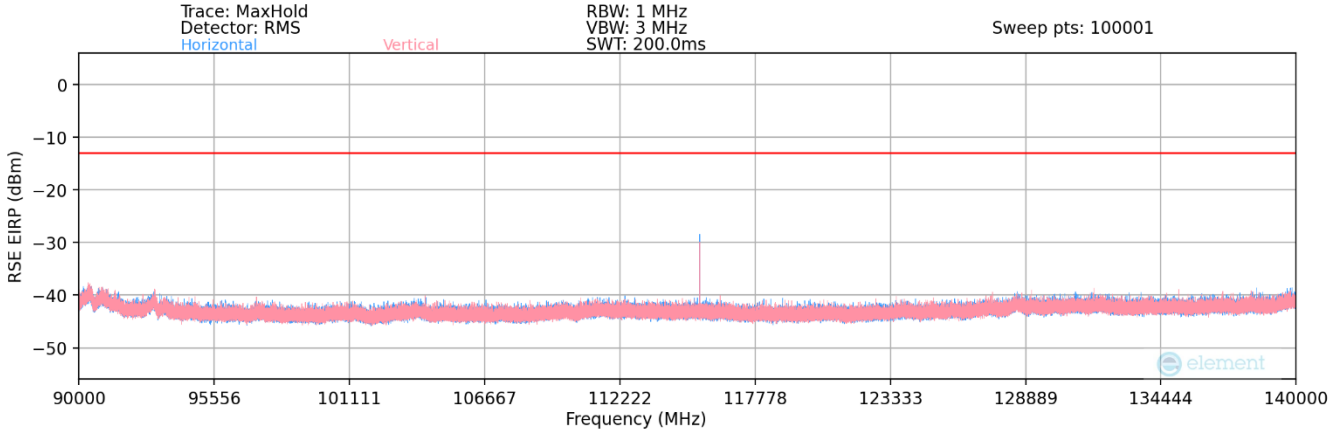
Notes

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.

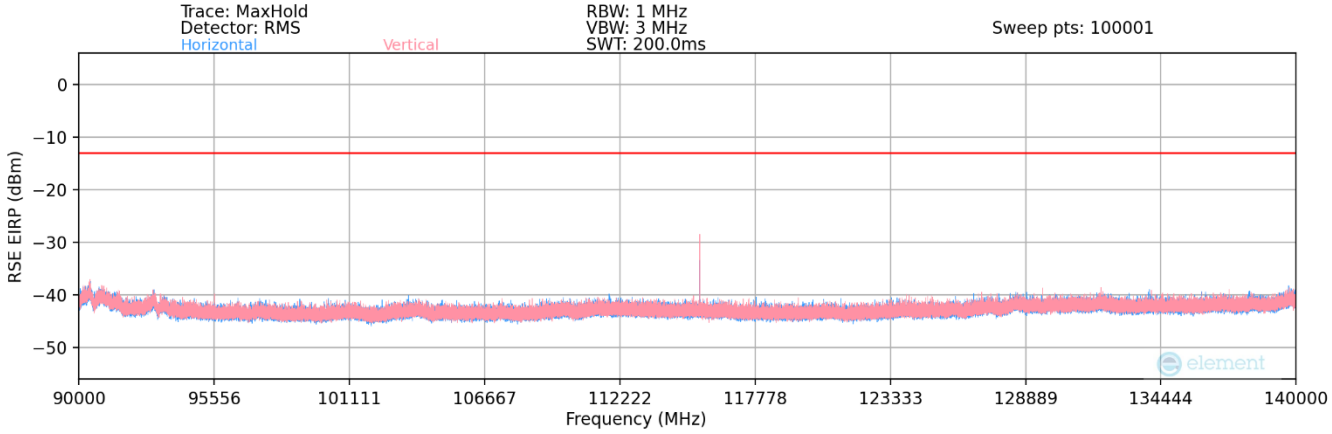
90GHz - 140GHz



Plot 7-224. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-225. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-226. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

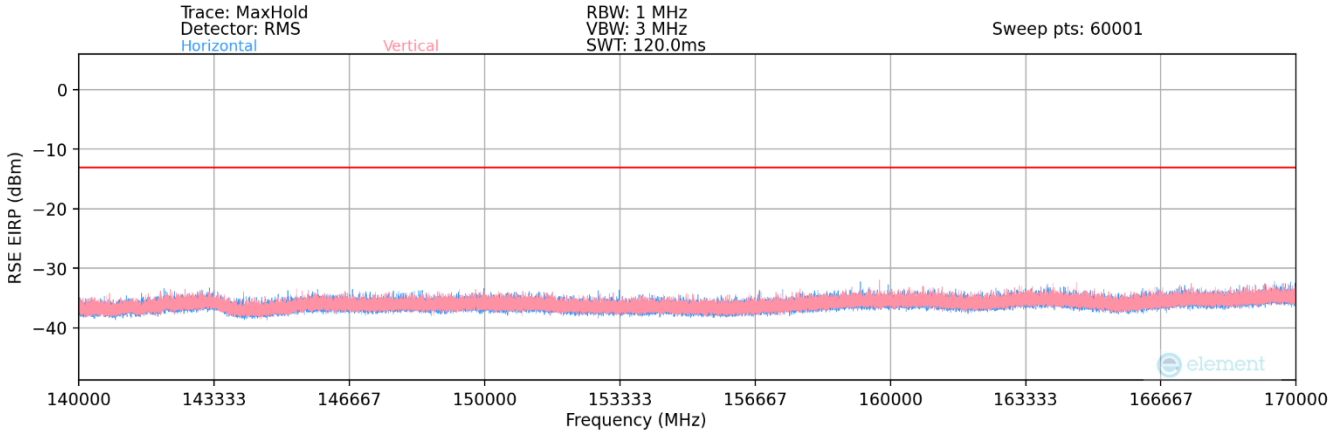
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
111075.12	Low	50	2Tx	QPSK	H	133	241	-34.67	-13.00	-21.67
115499.88	Mid	50	2Tx	QPSK	H	129	239	-28.36	-13.00	-15.36
119925.00	High	50	2Tx	QPSK	H	133	238	-31.34	-13.00	-18.34

Table 7-90. Ant 1 - n260 Radiated Spurious Emissions Table (90GHz - 140GHz)

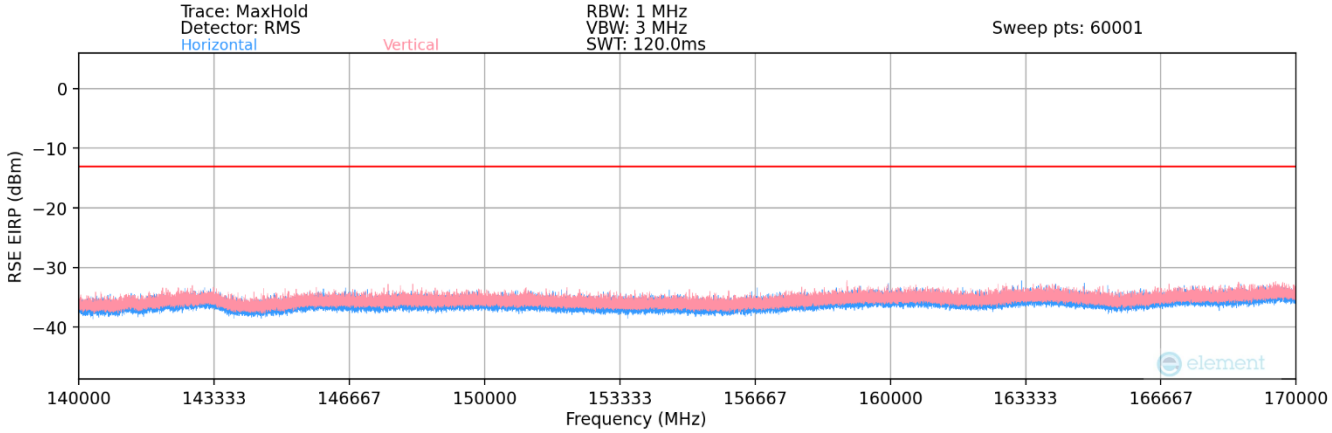
Notes

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.

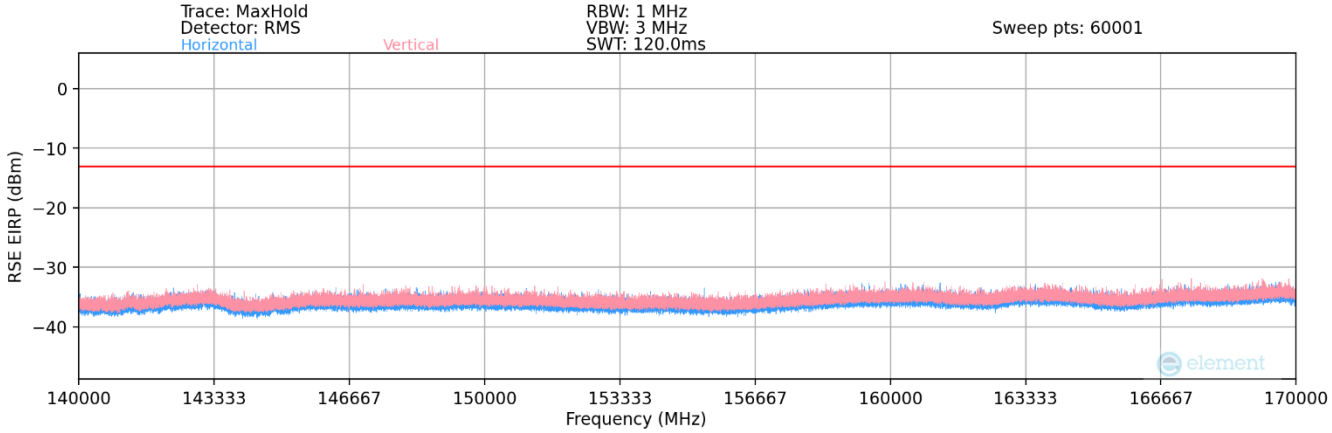
140GHz - 170GHz



Plot 7-227. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-228. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-229. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

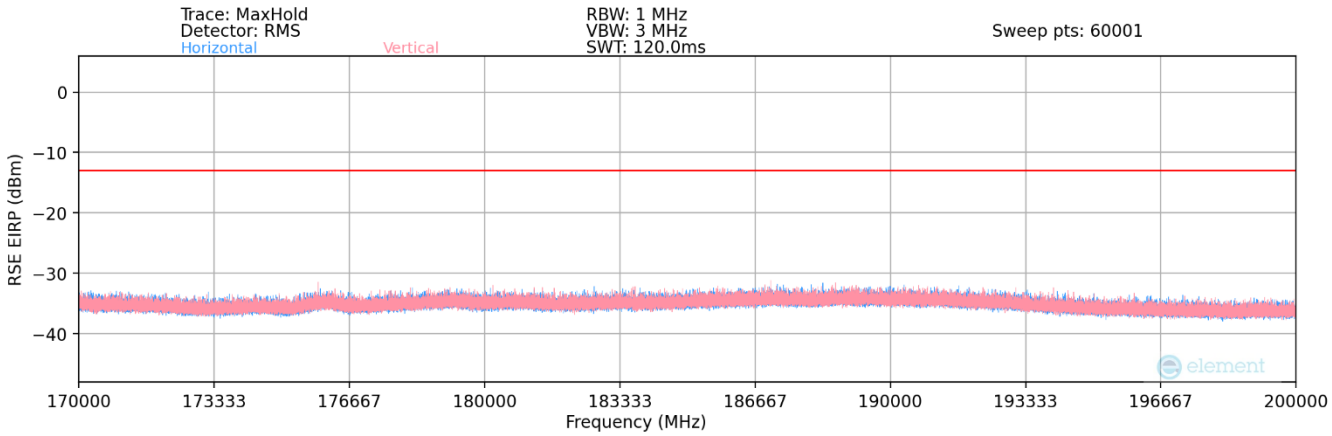
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
148102.56	Low	50	2Tx	QPSK	H	-	-	-40.62	-13.00	-27.62
154016.19	Mid	50	2Tx	QPSK	H	-	-	-41.42	-13.00	-28.42
164782.84	High	50	2Tx	QPSK	H	-	-	-39.98	-13.00	-26.98

Table 7-91. Ant 1 - n260 Radiated Spurious Emissions Table (140GHz - 170GHz)

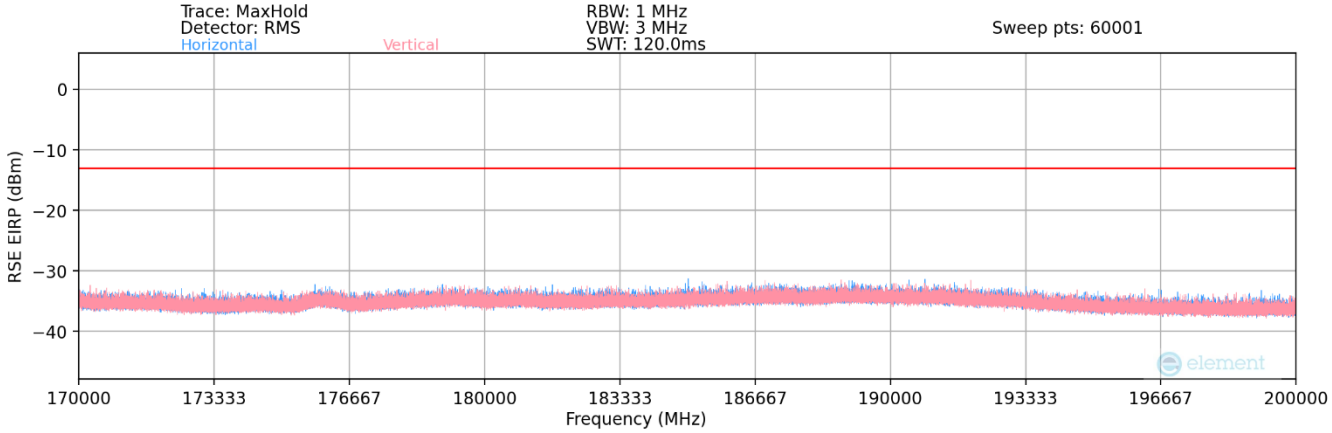
Notes

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.

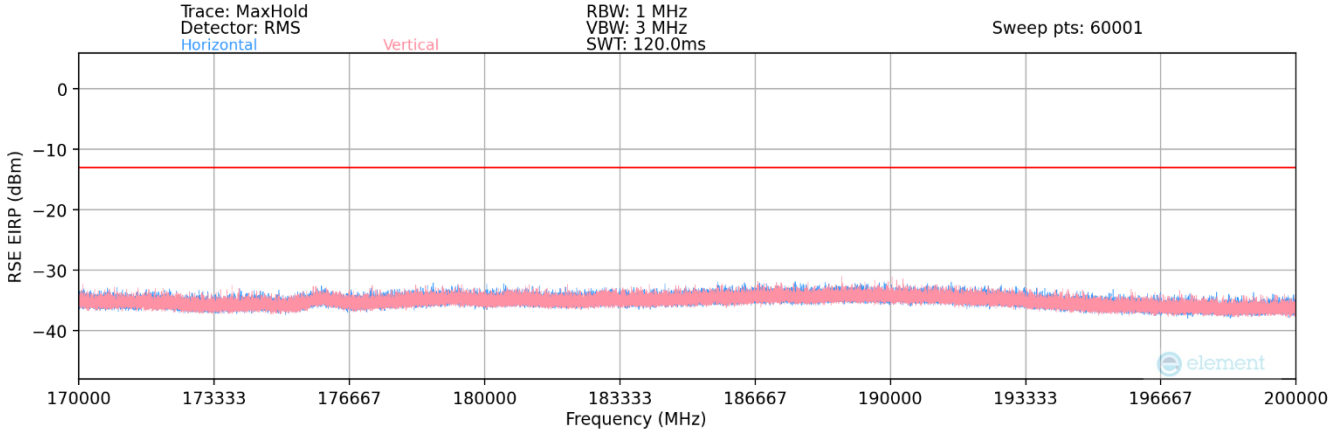
170GHz - 200GHz



Plot 7-230. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-231. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-232. Ant 1 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
175895.15	Low	50	2Tx	QPSK	H	-	-	-39.49	-13.00	-26.49
185016.50	Mid	50	2Tx	QPSK	H	-	-	-39.28	-13.00	-26.28
188336.94	High	50	2Tx	QPSK	H	-	-	-39.36	-13.00	-26.36

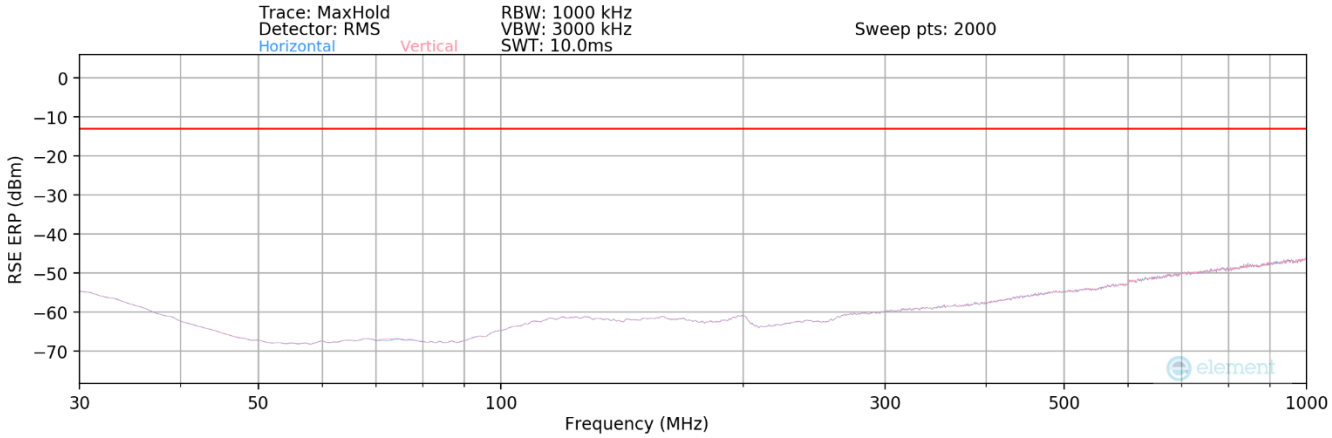
Table 7-92. Ant 1 - n260 Radiated Spurious Emissions Table (170GHz - 200GHz)

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.

Band n260 – Ant 2

30MHz - 1GHz



Plot 7-233. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2)

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.

RSE ERP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 – 2.15 (dB)

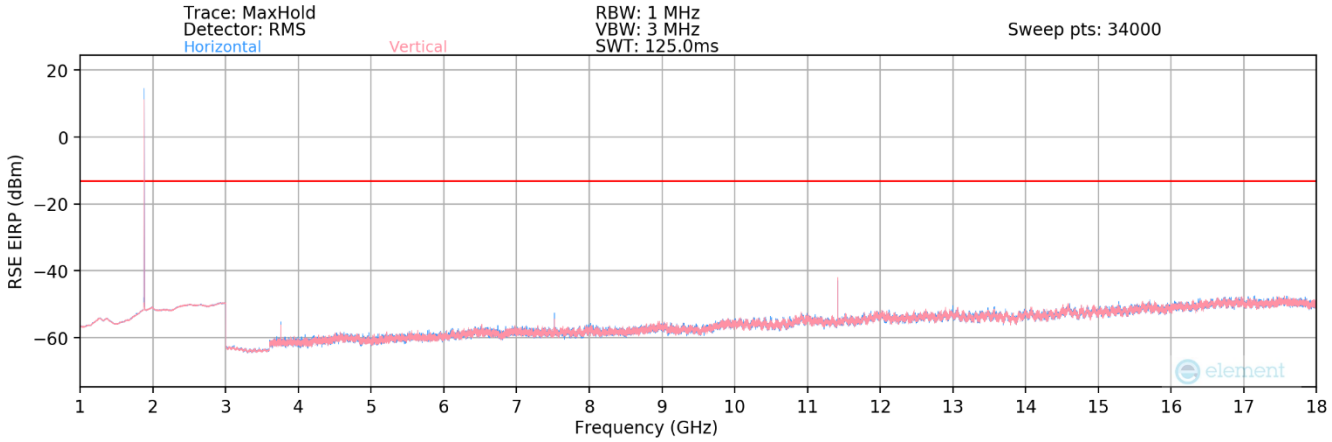
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
788.00	Low	50	2Tx	QPSK	V	-	-	-48.11	-13.00	-35.11
868.20	Mid	50	2Tx	QPSK	V	-	-	-47.83	-13.00	-34.83
936.33	High	50	2Tx	QPSK	V	-	-	-46.36	-13.00	-33.36

Table 7-93. Ant 2 - n260 Radiated Spurious Emissions Table (30MHz - 1GHz)

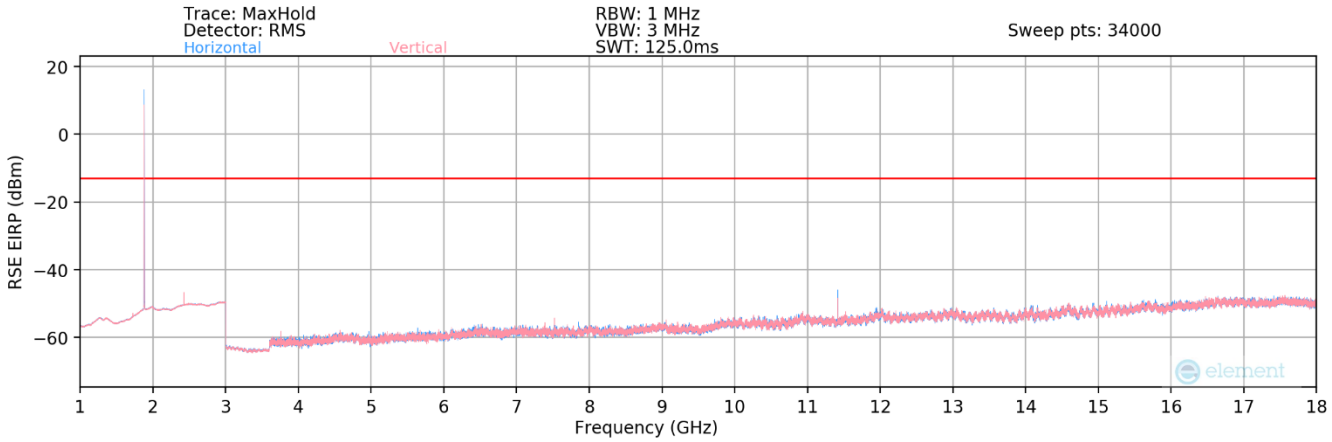
Notes

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.

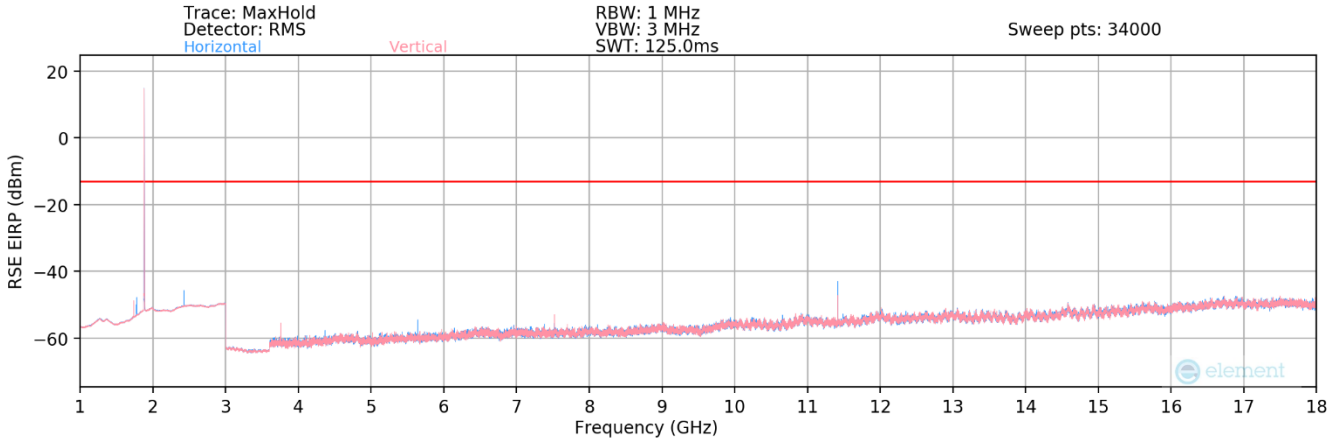
1GHz - 18GHz



Plot 7-234. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-235. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-236. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8

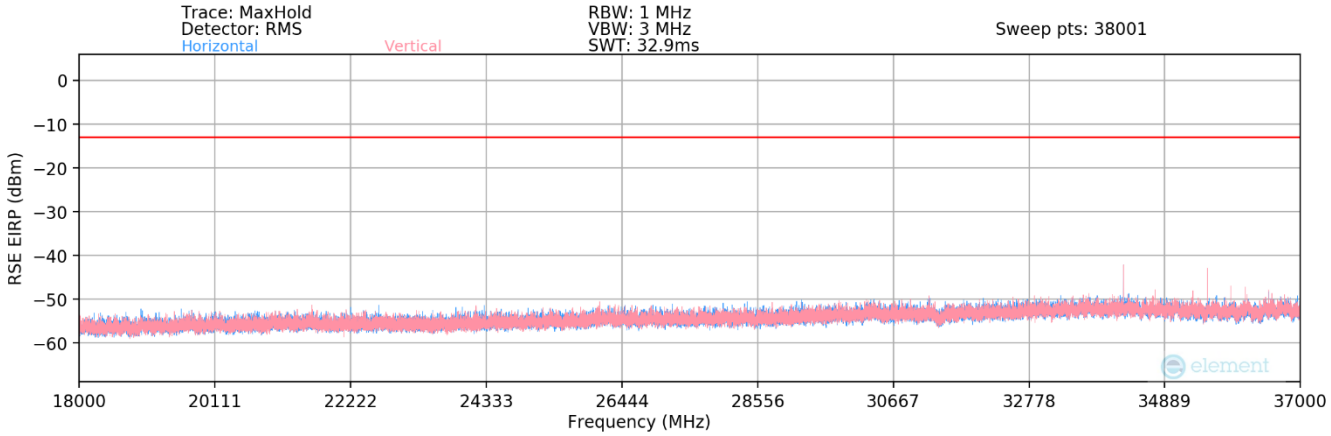
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
11220.80	Low	50	2Tx	QPSK	V	97	119	-41.04	-13.00	-28.04
11415.58	Mid	50	2Tx	QPSK	V	93	118	-41.67	-13.00	-28.67
11713.30	High	50	2Tx	QPSK	V	95	110	-41.85	-13.00	-28.85

Table 7-94. Ant 2 - n260 Radiated Spurious Emissions Table (1GHz - 18GHz)

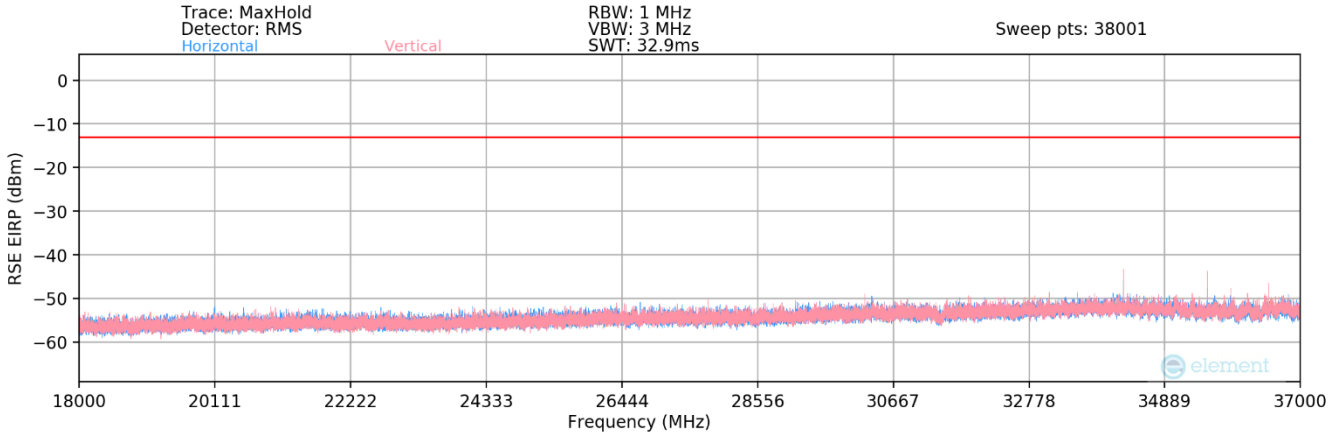
Notes

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.

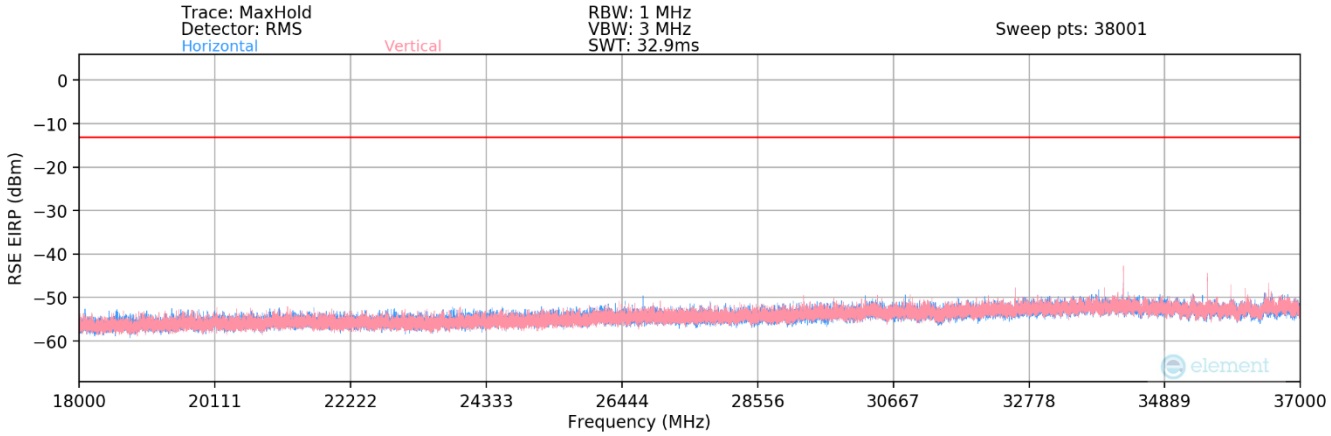
18GHz - 37GHz



Plot 7-237. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-238. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-239. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8

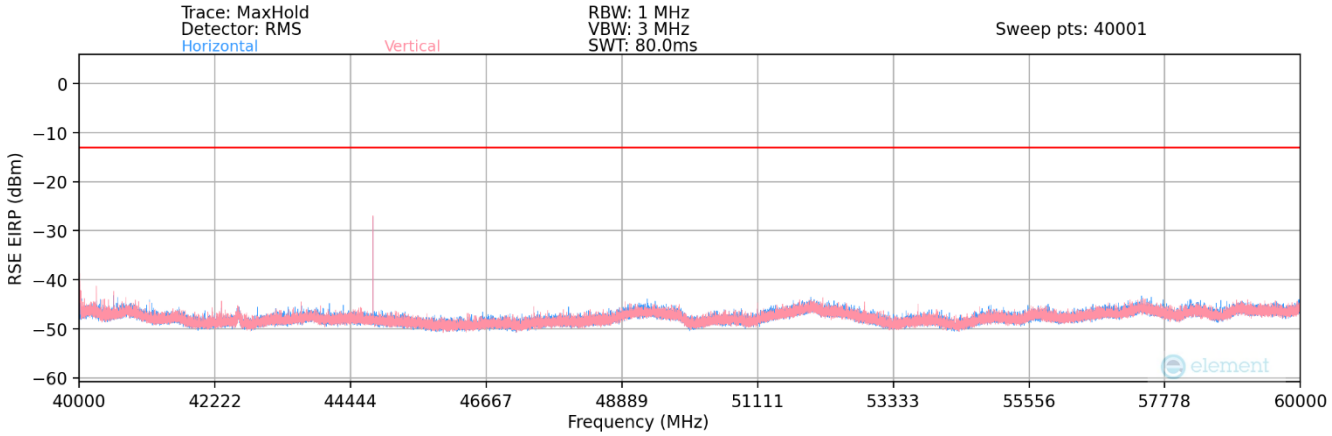
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
33663.50	Low	50	2Tx	QPSK	V	49	150	-49.12	-13.00	-36.12
34943.00	Low	50	2Tx	QPSK	V	45	150	-48.70	-13.00	-35.70
34247.00	Mid	50	2Tx	QPSK	V	41	150	-44.61	-13.00	-31.61
35556.50	Mid	50	2Tx	QPSK	V	38	150	-42.83	-13.00	-29.83
35139.50	High	50	2Tx	QPSK	V	39	150	-40.94	-13.00	-27.94
35854.00	High	50	2Tx	QPSK	V	39	150	-41.68	-13.00	-28.68

Table 7-95. Ant 2 - n260 Radiated Spurious Emissions Table (18GHz - 37GHz)

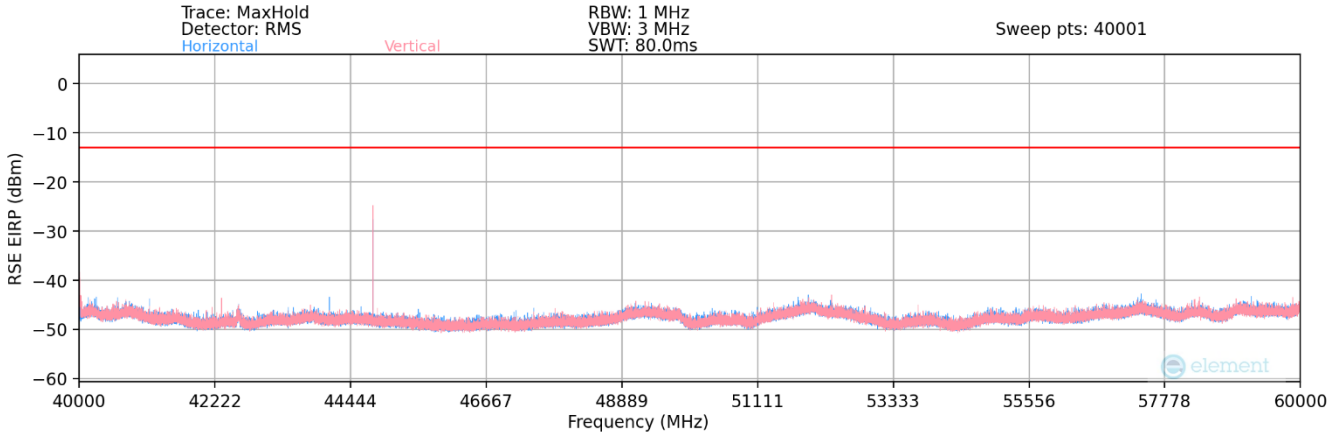
Notes

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.

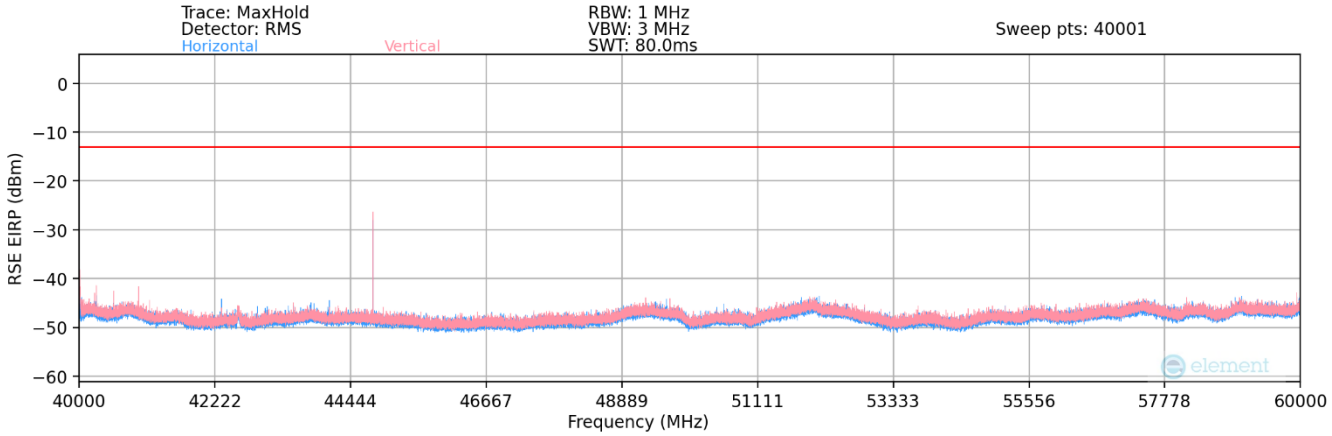
40GHz - 60GHz



Plot 7-240. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-241. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-242. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

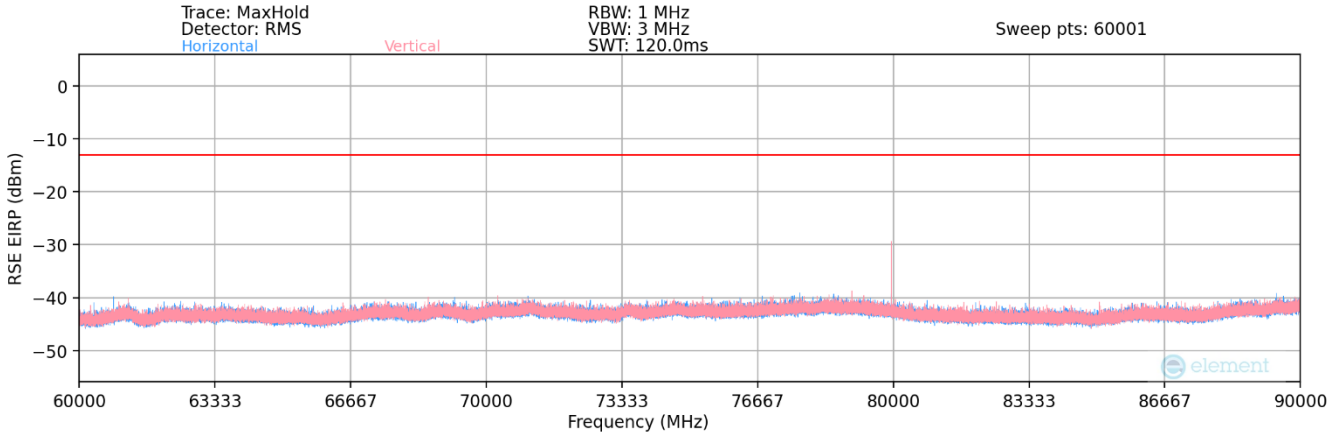
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
40387.89	Low	50	2Tx	QPSK	V	347	357	-31.00	-13.00	-18.00
42753.00	Mid	50	2Tx	QPSK	V	258	347	-25.71	-13.00	-12.71
44811.25	High	50	2Tx	QPSK	V	256	354	-23.55	-13.00	-10.55

Table 7-96. Ant 2 - n260 Radiated Spurious Emissions Table (40GHz - 60GHz)

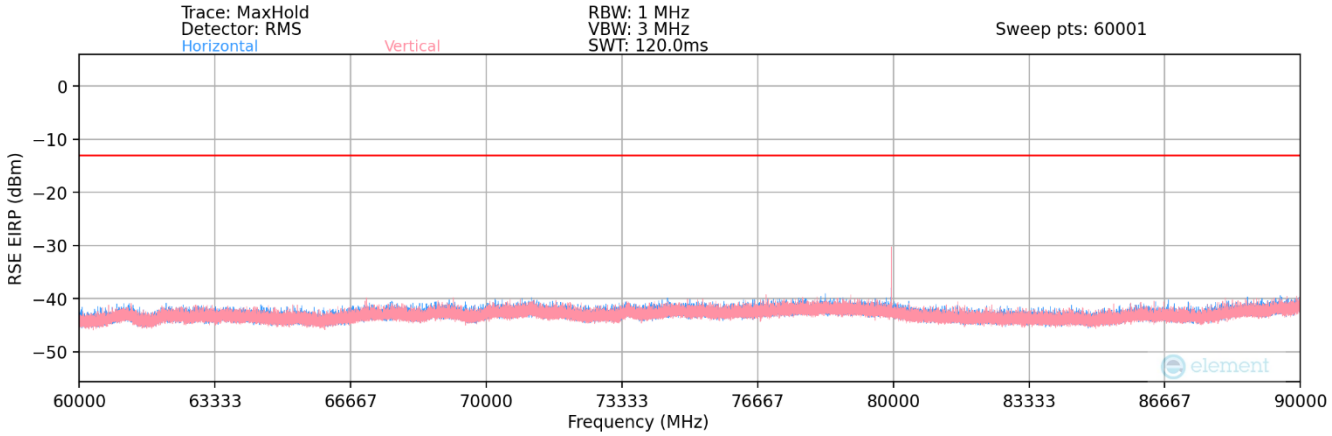
Notes

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.

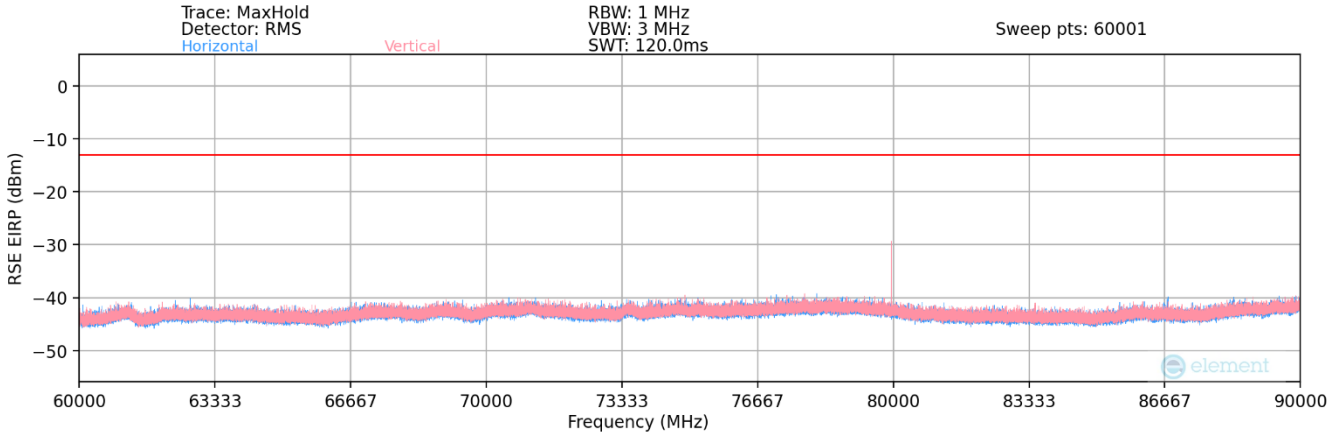
60GHz - 90GHz



Plot 7-243. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-244. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-245. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK High Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

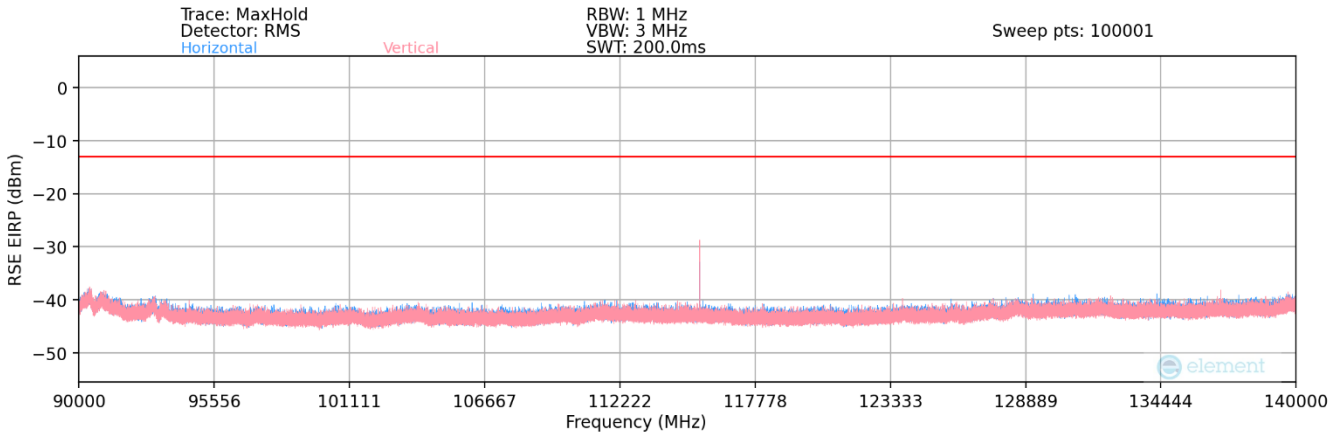
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74050.08	Low	50	2Tx	QPSK	V	147	316	-41.32	-13.00	-28.32
76999.92	Mid	50	2Tx	QPSK	V	152	323	-41.02	-13.00	-28.02
79950.00	High	50	2Tx	QPSK	V	152	316	-29.67	-13.00	-16.67

Table 7-97. Ant 2 - n260 Radiated Spurious Emissions Table (60GHz - 90GHz)

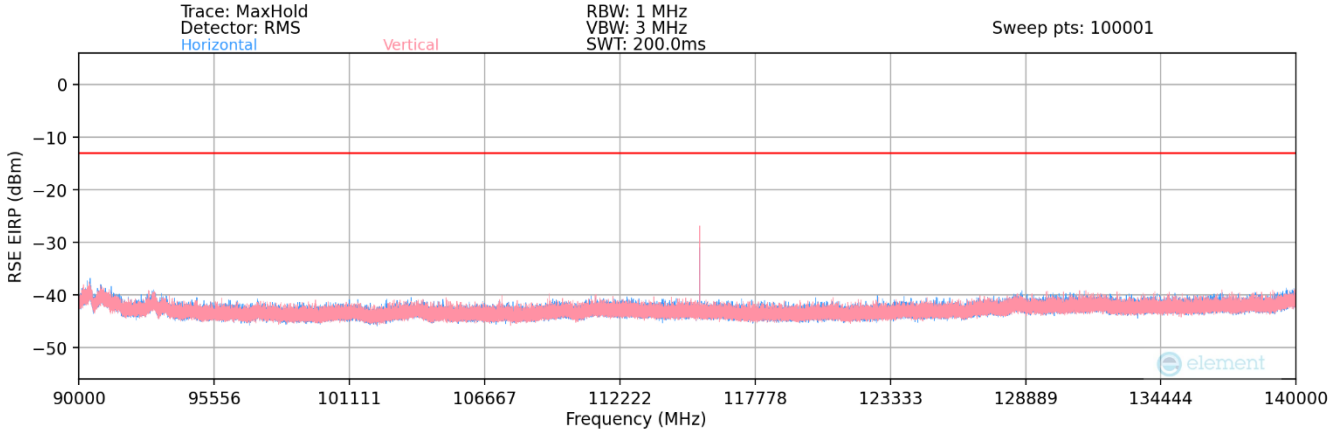
Notes

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.

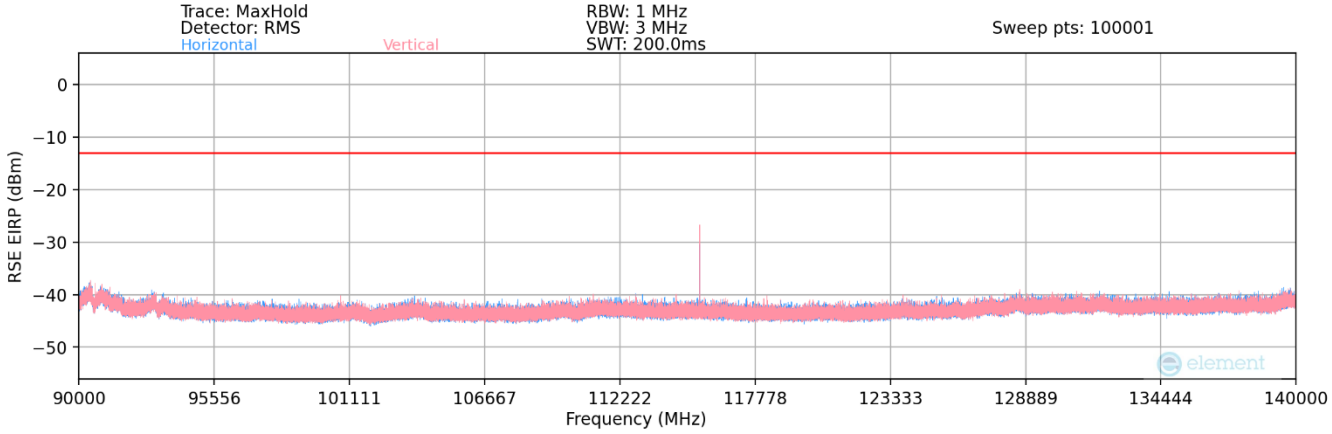
90GHz - 140GHz



Plot 7-246. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-247. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-248. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

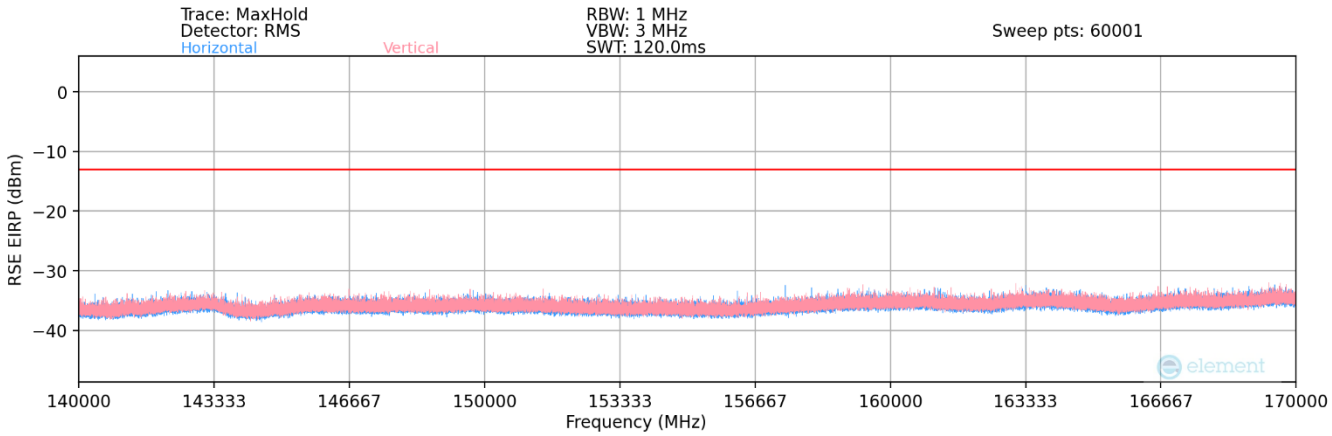
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
111075.12	Low	50	2Tx	QPSK	V	153	13	-36.95	-13.00	-23.95
115499.88	Mid	50	2Tx	QPSK	V	154	13	-26.24	-13.00	-13.24
119925.00	High	50	2Tx	QPSK	V	154	15	-33.16	-13.00	-20.16

Table 7-98. Ant 2 - n260 Radiated Spurious Emissions Table (90GHz - 140GHz)

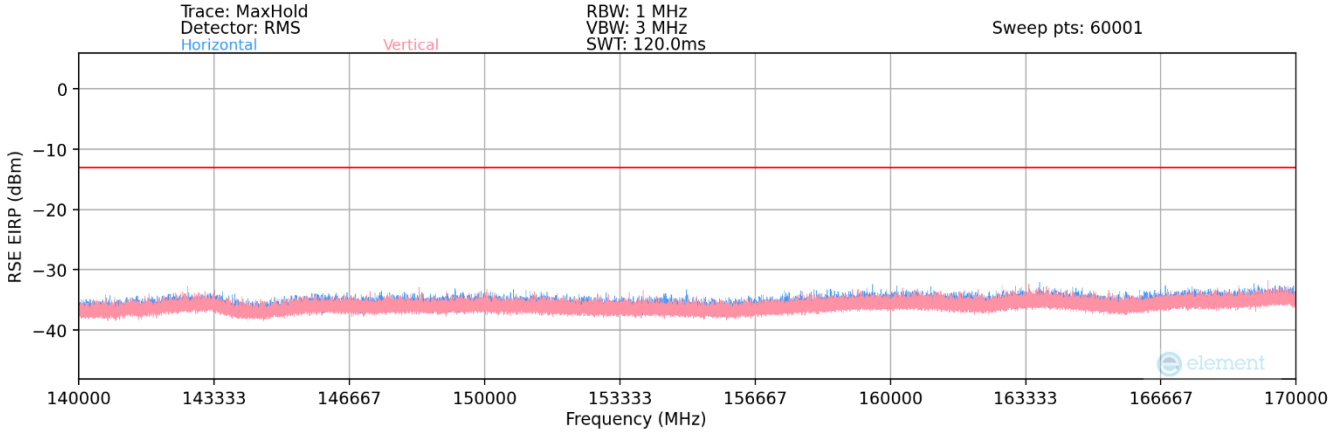
Notes

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.

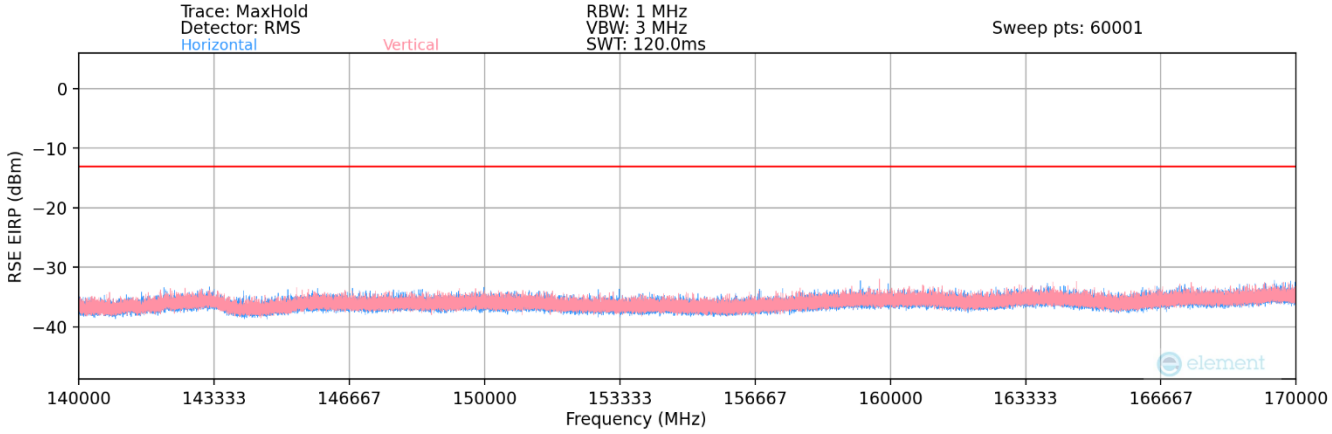
140GHz - 170GHz



Plot 7-249. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-250. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-251. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

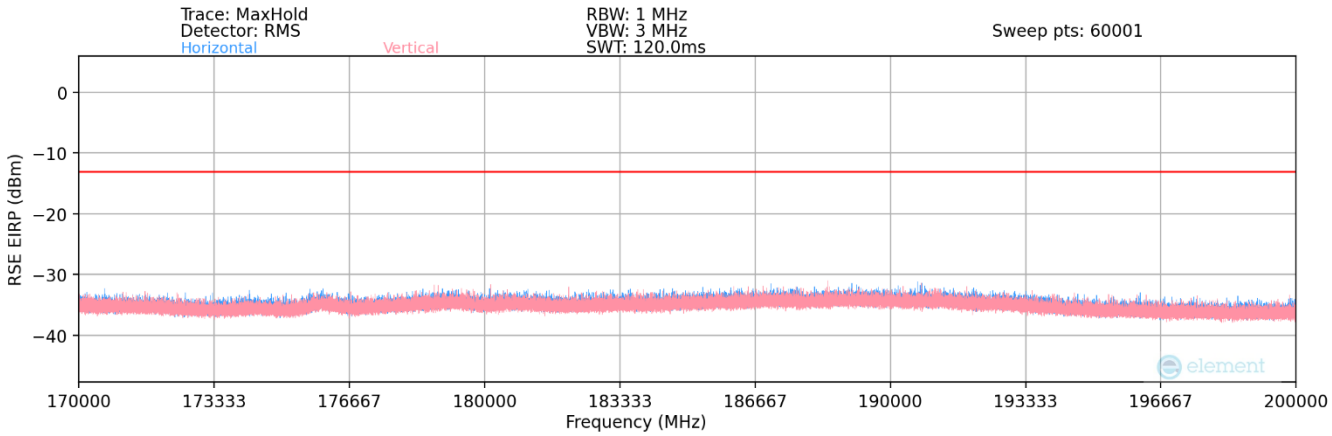
Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
146010.15	Low	50	2Tx	QPSK	V	-	-	-40.51	-13.00	-27.51
157019.93	Mid	50	2Tx	QPSK	V	-	-	-40.67	-13.00	-27.67
165419.83	High	50	2Tx	QPSK	V	-	-	-40.28	-13.00	-27.28

Table 7-99. Ant 2 - n260 Radiated Spurious Emissions Table (140GHz - 170GHz)

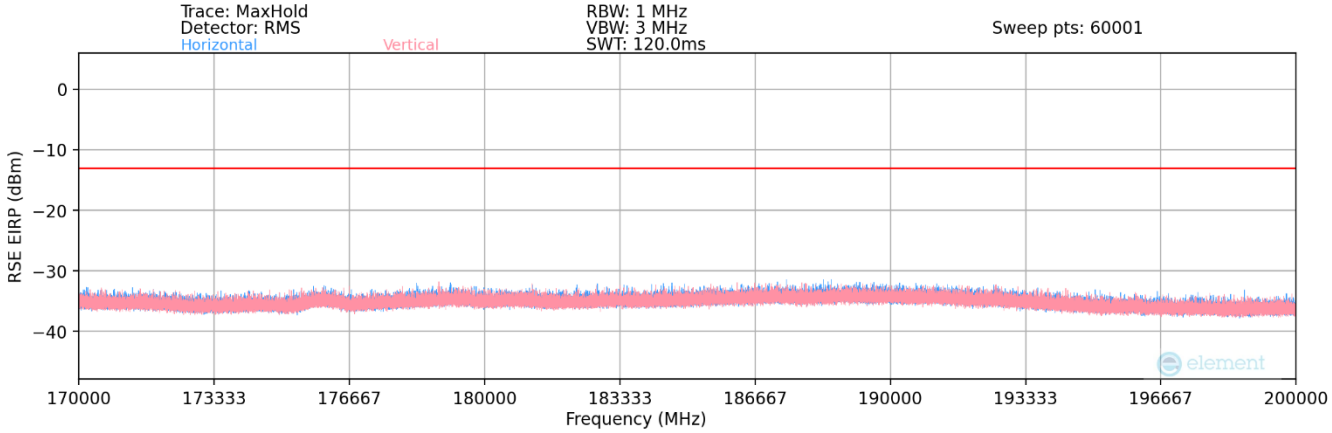
Notes

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.

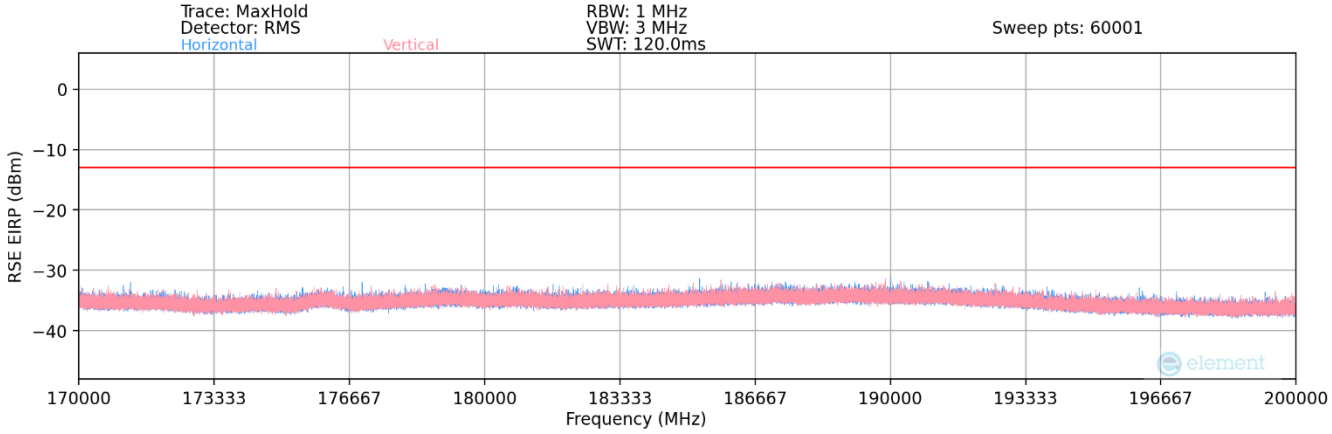
170GHz - 200GHz



Plot 7-252. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _OPEN



Plot 7-253. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _CLOSED



Plot 7-254. Ant 2 - n260 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx − EN-DC Anchor Band 2) _HALF

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.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

Frequency [MHz]	Channnel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
177533.96	Low	50	2Tx	QPSK	V	-	-	-39.71	-13.00	-26.71
187905.95	Mid	50	2Tx	QPSK	V	-	-	-38.87	-13.00	-25.87
199878.75	High	50	2Tx	QPSK	V	-	-	-39.87	-13.00	-26.87

Table 7-100. Ant 2 - 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.

7.5 Band Edge Emissions

§2.1051, §30.203

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 v01r02 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 ≥ 3 x RBW
5. Detector = RMS
6. Number of sweep points ≥ 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.

5) All combinations of 1CC and 2CC were fully investigated, and only the worst case has been included in this report.

6) All 2CC 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 = 40.73dB/m

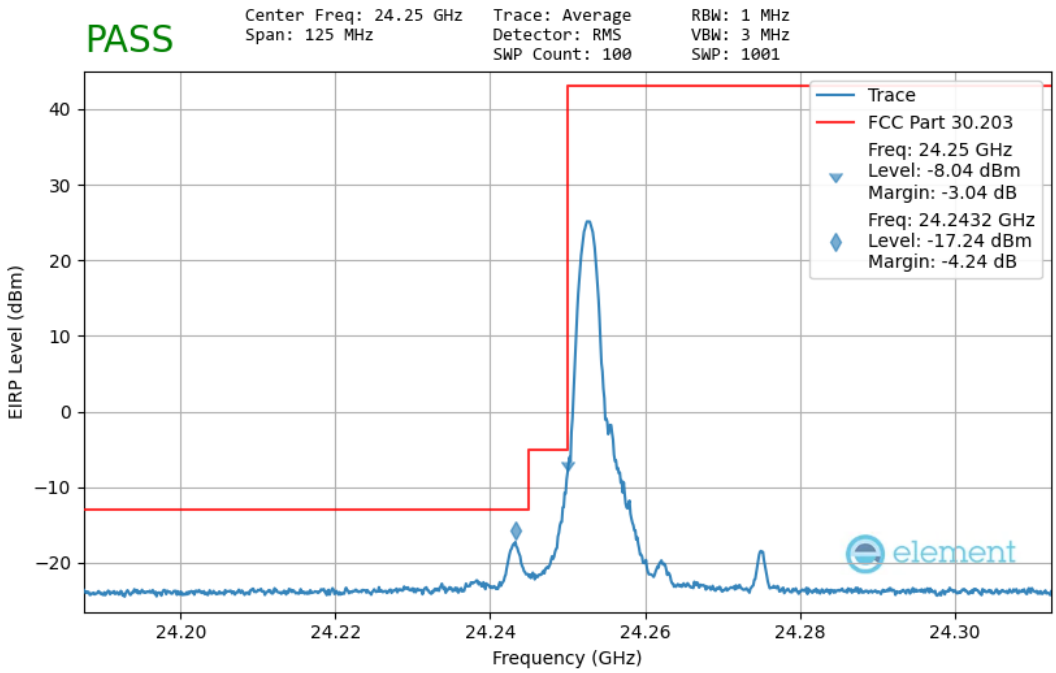
Cable Loss = 8.53dB

Analyzer Offset (dB) = AF (dB/m) + CL (dB) + 107 + $20\log_{10}$(D) – 104.8dB, where D = 1m

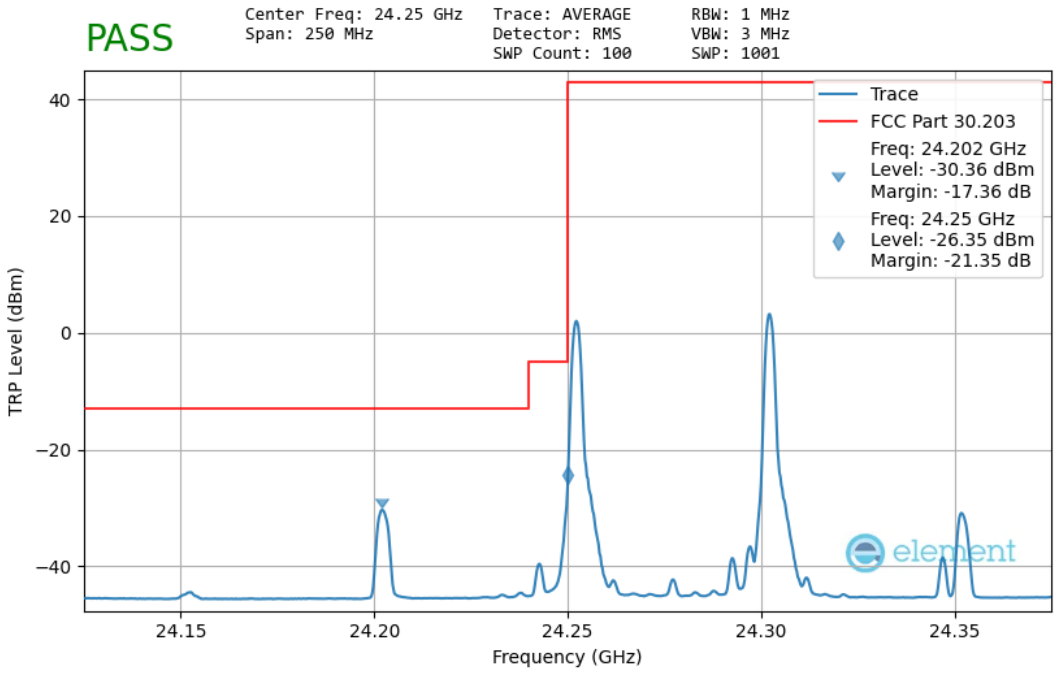
= 40.73dB/m + 8.53dB + 107 + $20\log_{10}$(1m) – 104.8dB

= 51.46dB

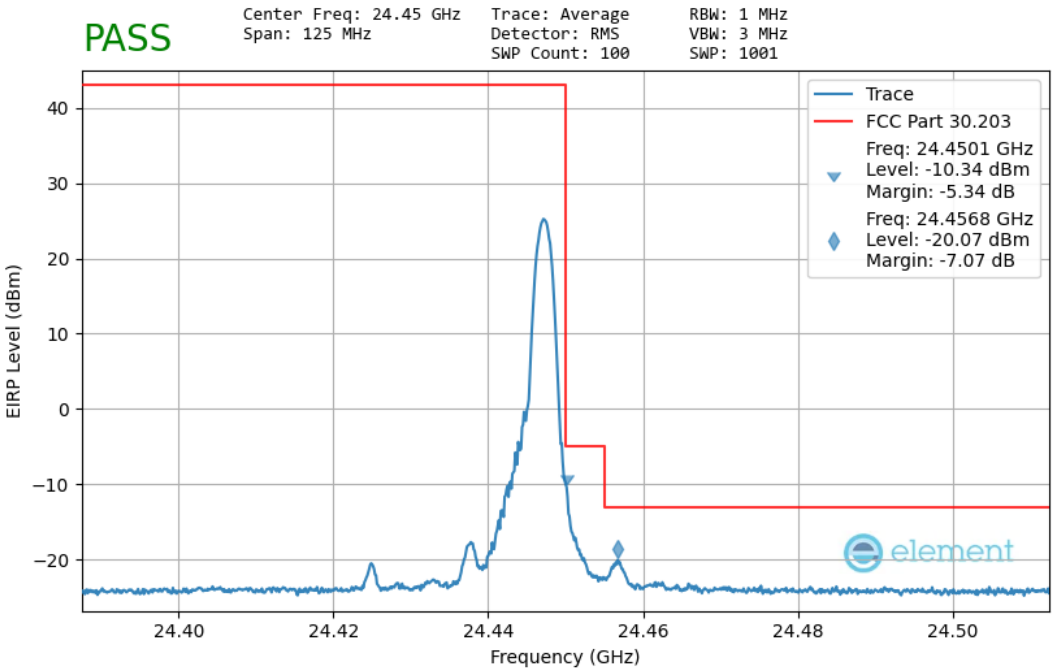
Band n258-R1 – Worst-Case



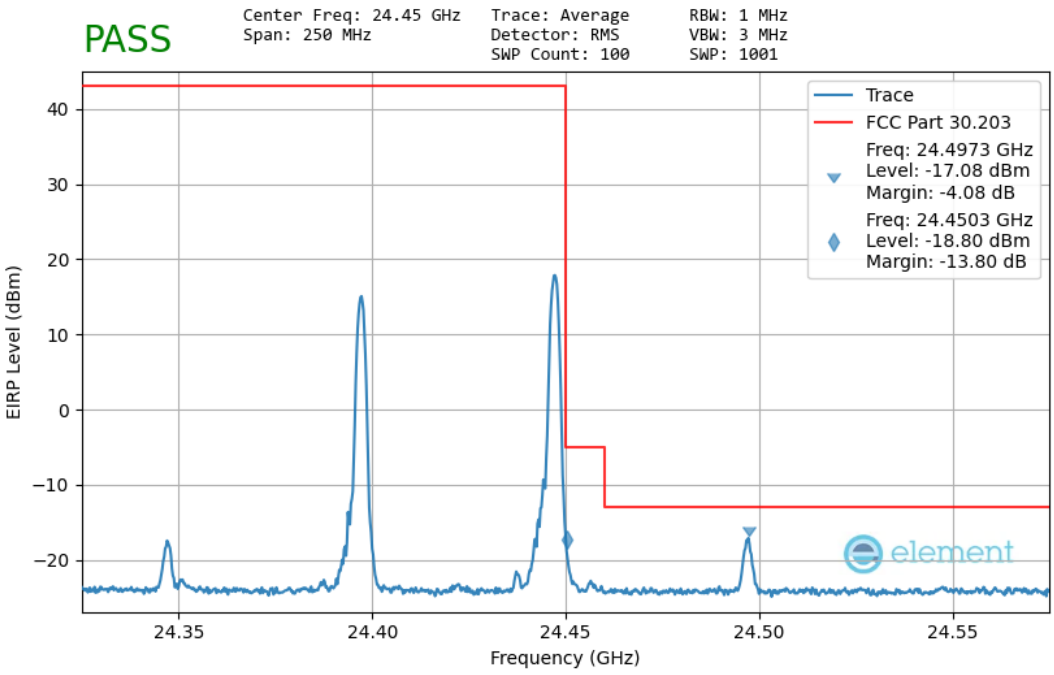
Plot 7-255. Ant 1 Lower Band Edge (50MHz-1CC – QPSK Full RB)



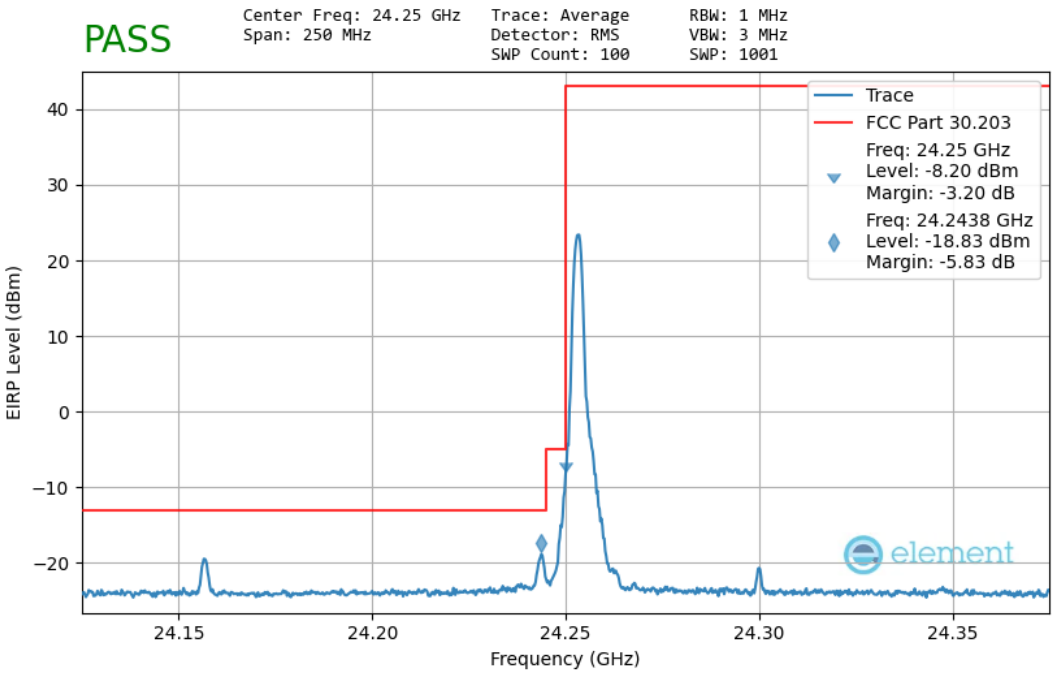
Plot 7-256. Ant 1 Lower Band Edge − TRP (50MHz-2CC – QPSK 1 RB)



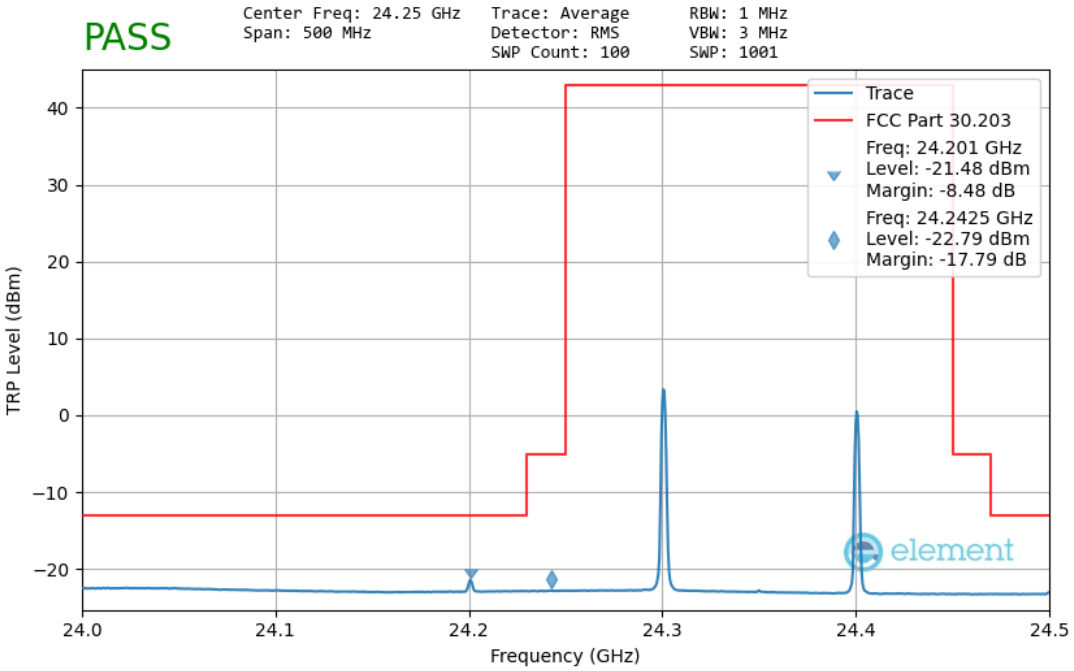
Plot 7-257. Ant 1 Upper Band Edge (50MHz-1CC – QPSK Full RB)



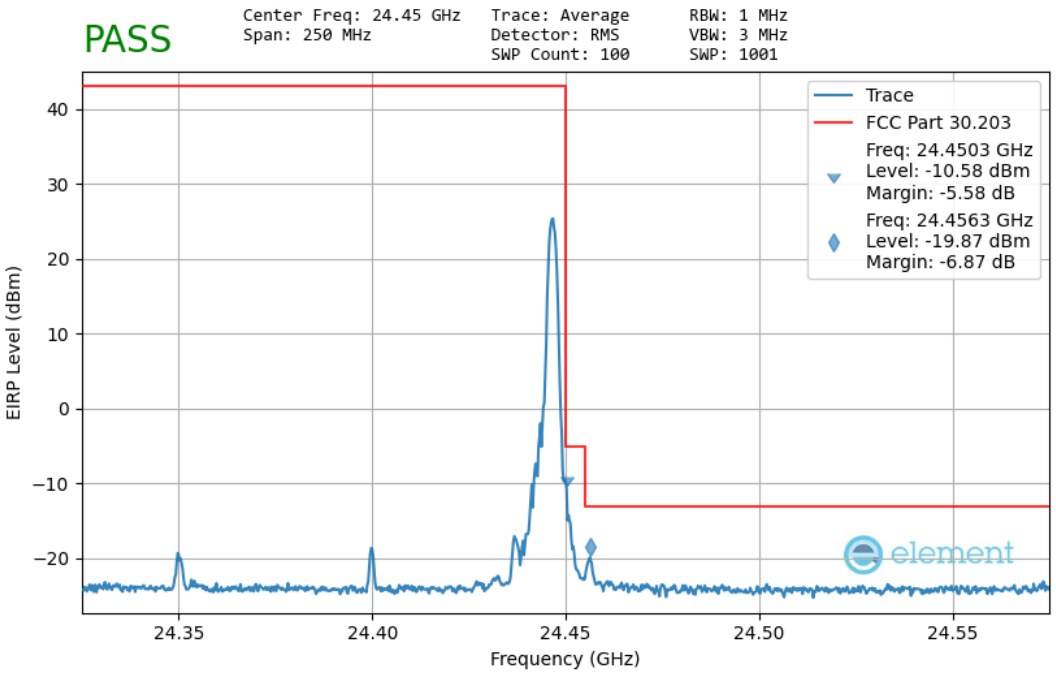
Plot 7-258. Ant 1 Upper Band Edge (50MHz-2CC – QPSK 1 RB)



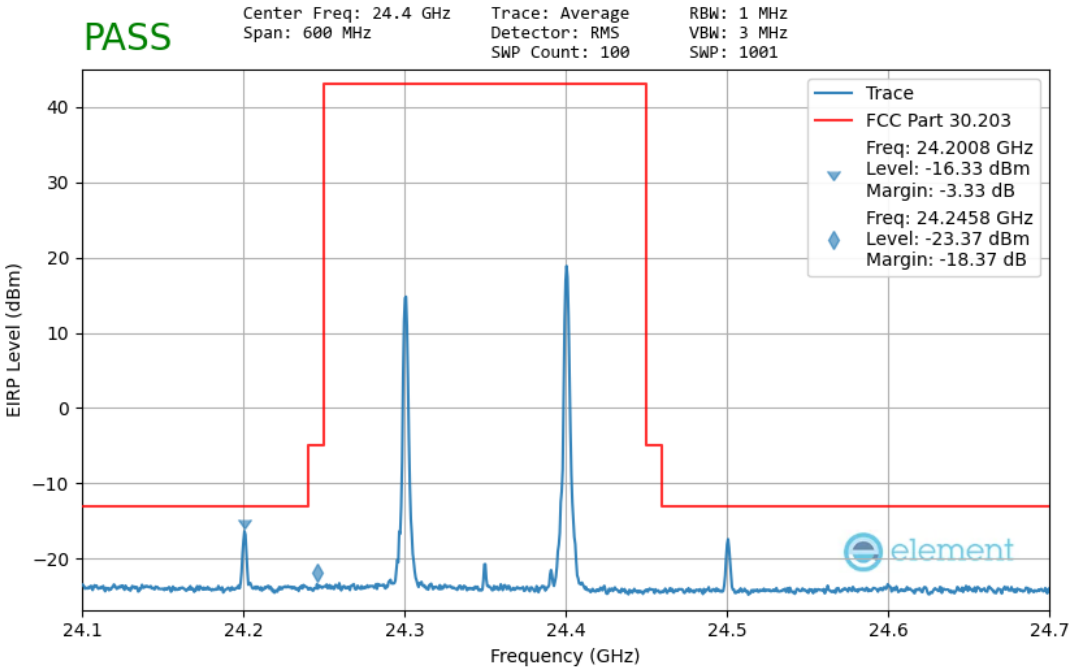
Plot 7-259. Ant 1 Lower Band Edge (100MHz-1CC – QPSK Full RB)



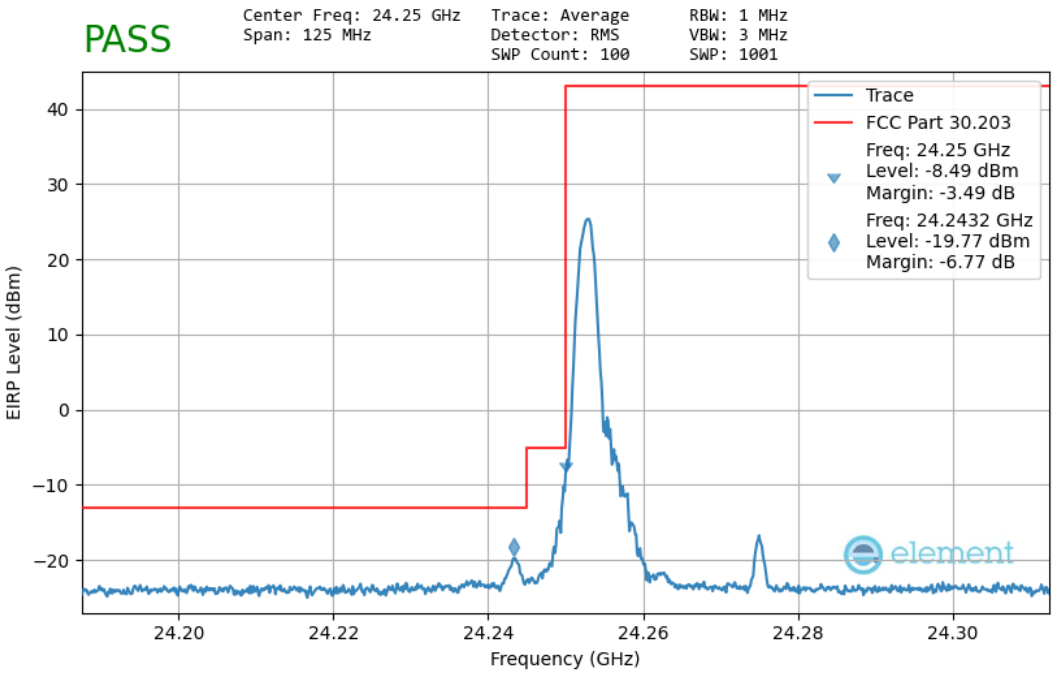
Plot 7-260. Ant 1 Lower Band Edge − TRP (100MHz-2CC – QPSK 1 RB)



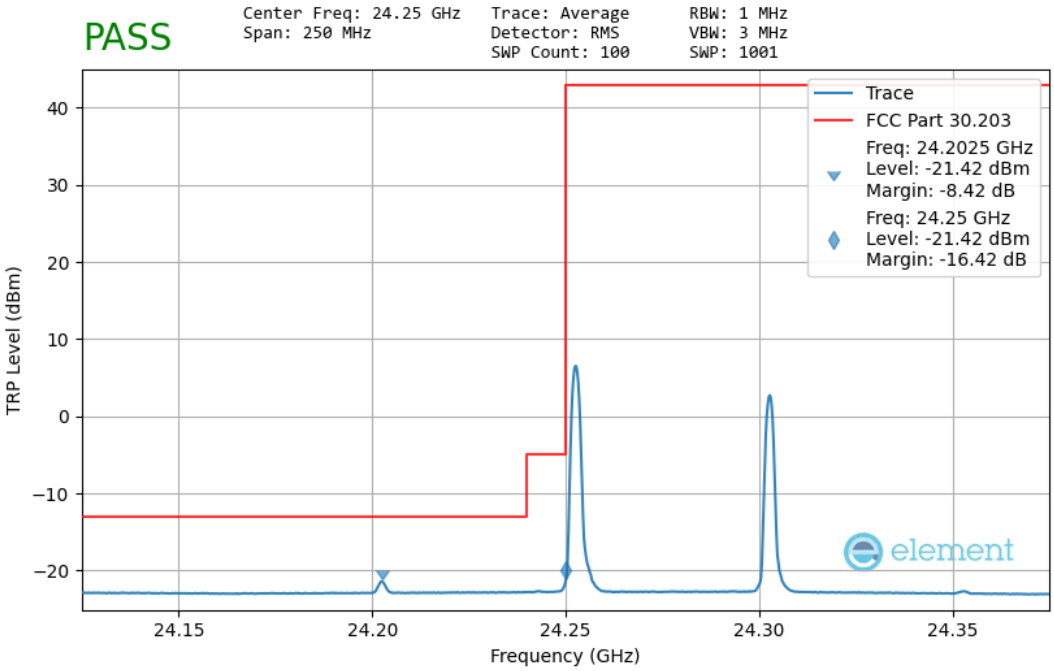
Plot 7-261. Ant 1 Upper Band Edge (100MHz-1CC – QPSK Full RB)



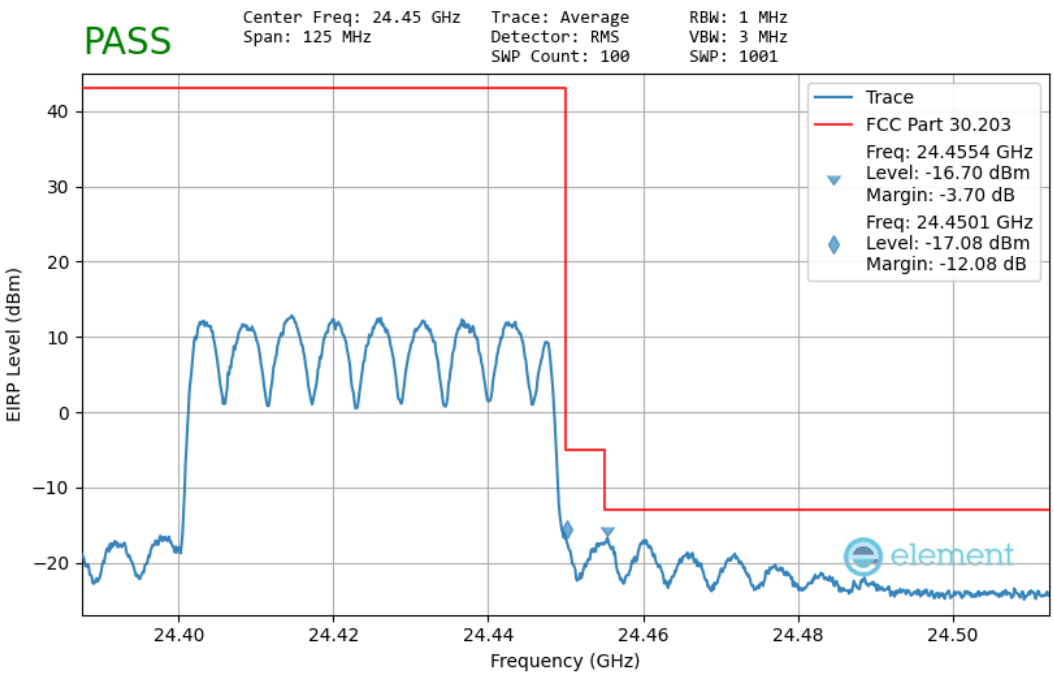
Plot 7-262. Ant 1 Upper Band Edge (100MHz-2CC – QPSK 1 RB)



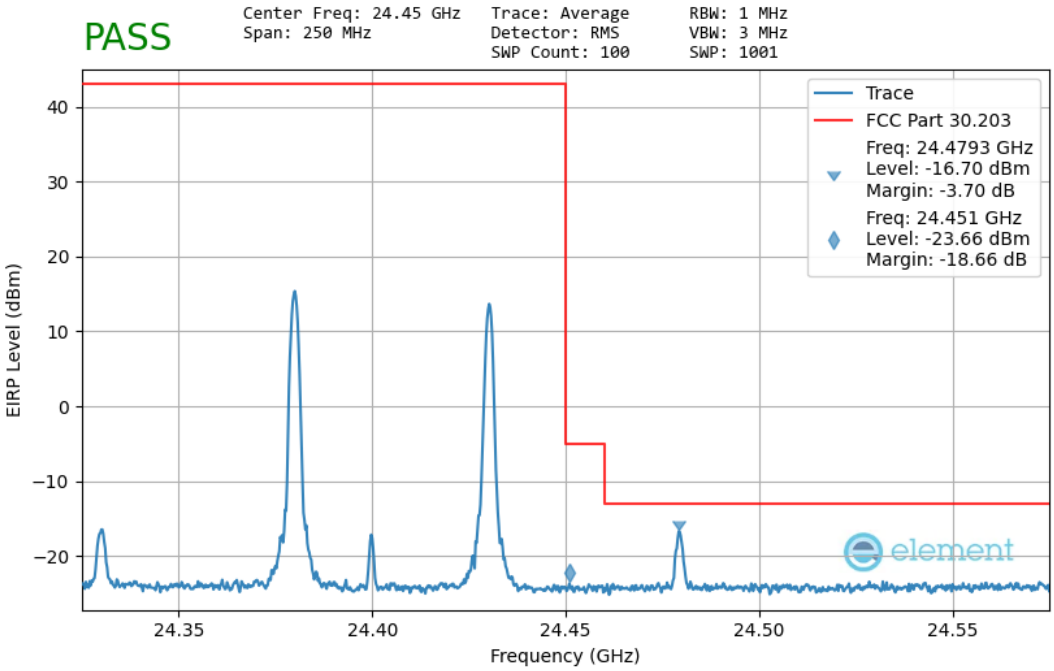
Plot 7-263. Ant 2 Lower Band Edge (50MHz-1CC – QPSK 1 RB)



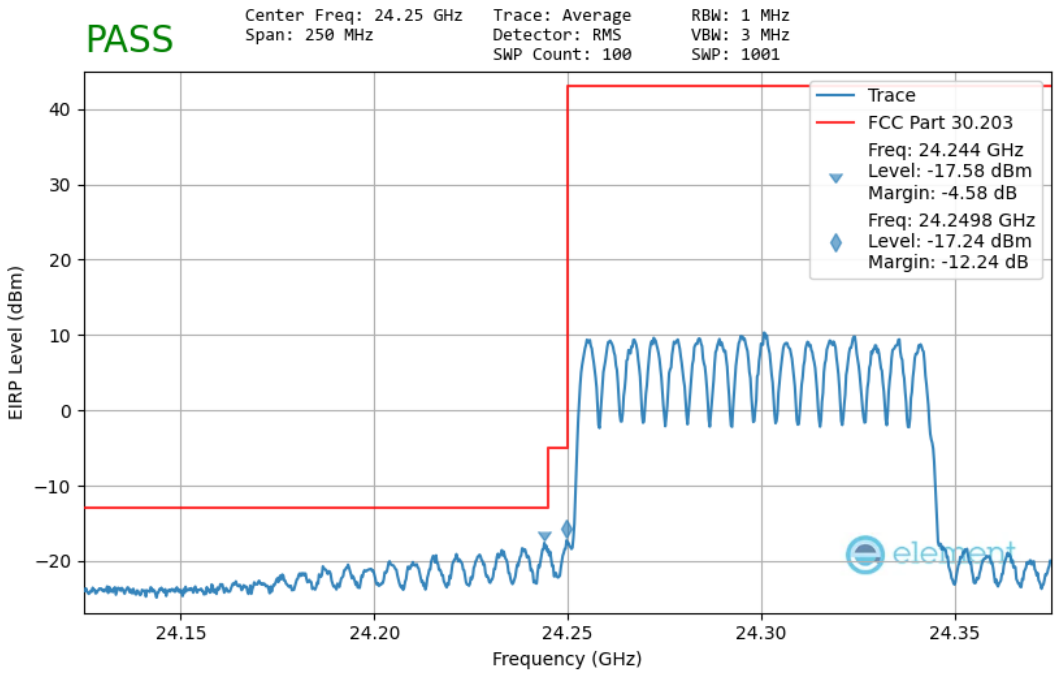
Plot 7-264. Ant 2 Lower Band Edge − TRP (50MHz-2CC – QPSK 1 RB)



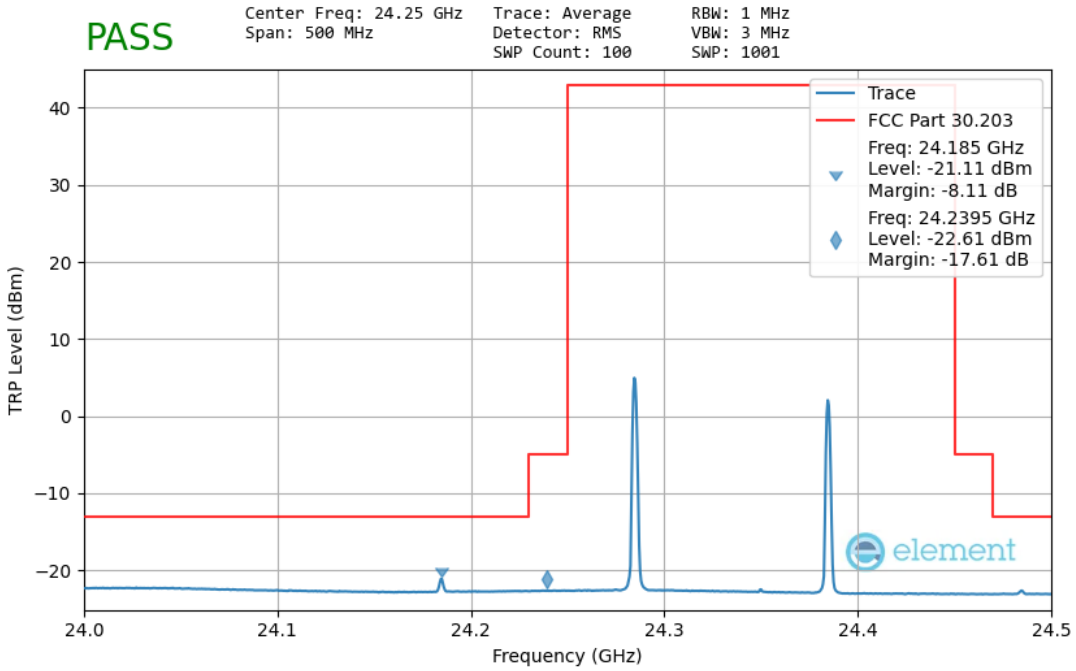
Plot 7-265. Ant 2 Upper Band Edge (50MHz-1CC – QPSK Full RB)



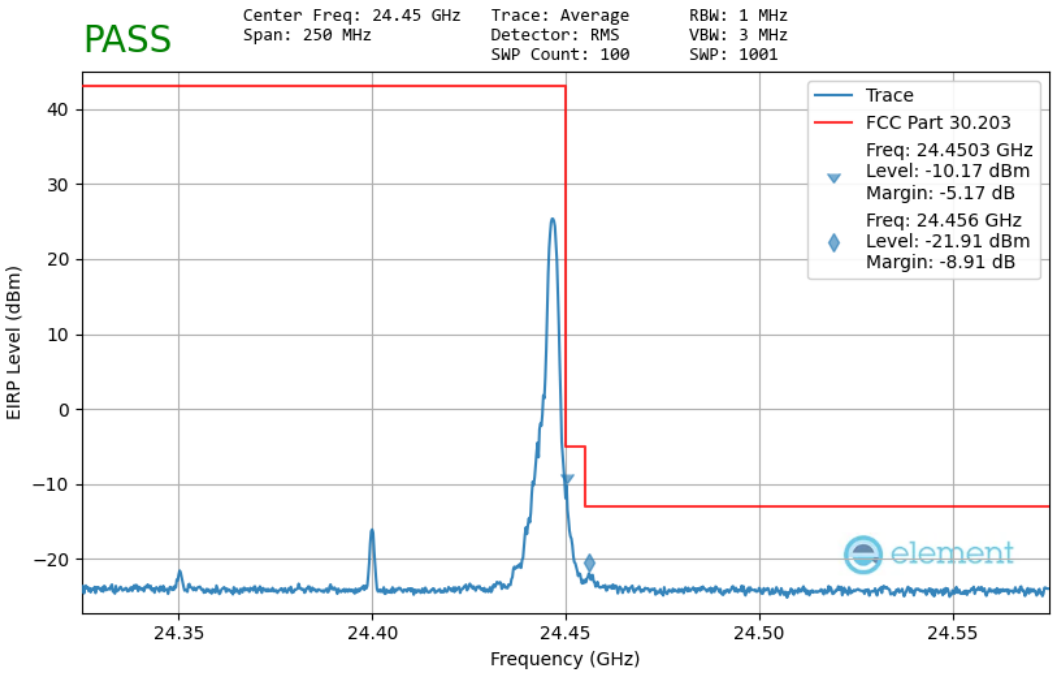
Plot 7-266. Ant 2 Upper Band Edge (50MHz-2CC – QPSK 1 RB)



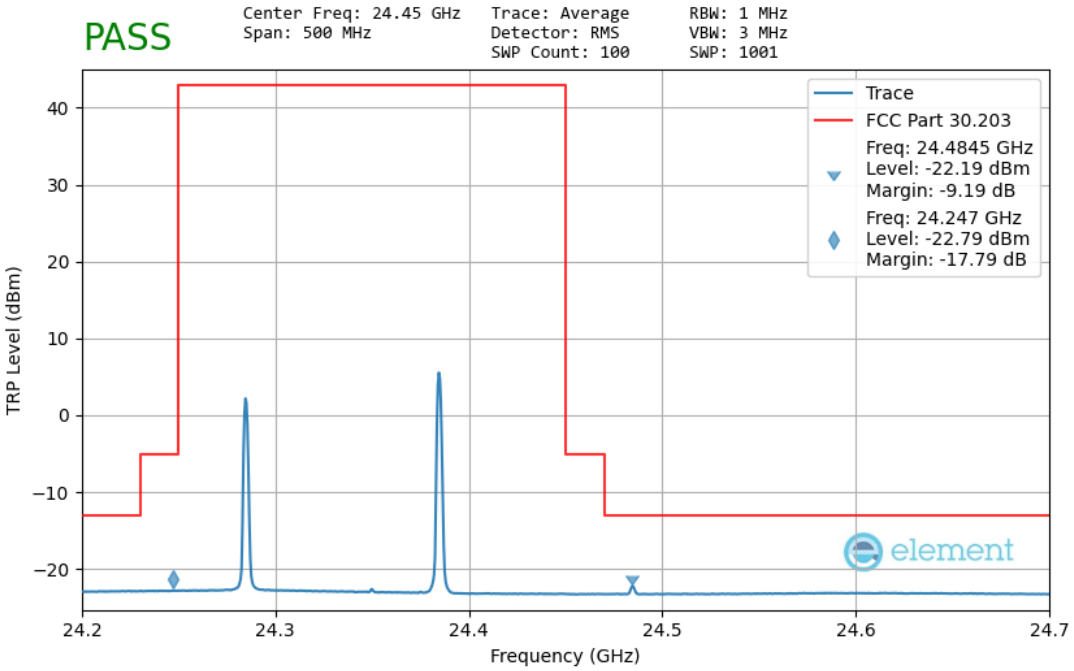
Plot 7-267. Ant 2 Lower Band Edge (100MHz-1CC – QPSK 1 RB)



Plot 7-268. Ant 2 Lower Band Edge − TRP (100MHz-2CC – QPSK 1 RB)

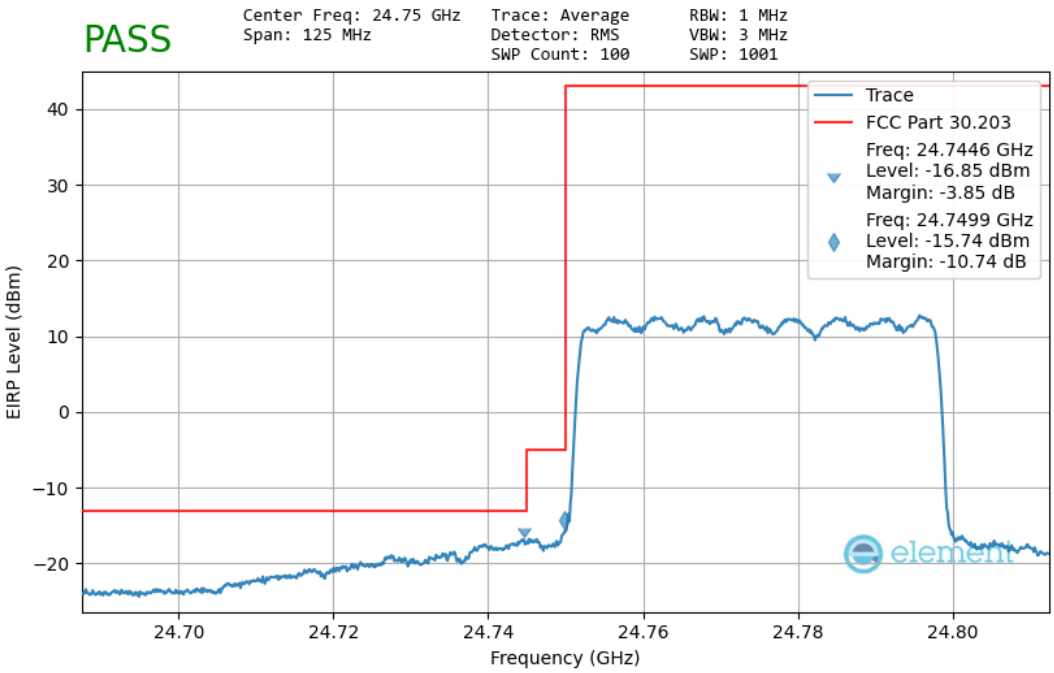


Plot 7-269. Ant 2 Upper Band Edge (100MHz-1CC – QPSK Full RB)

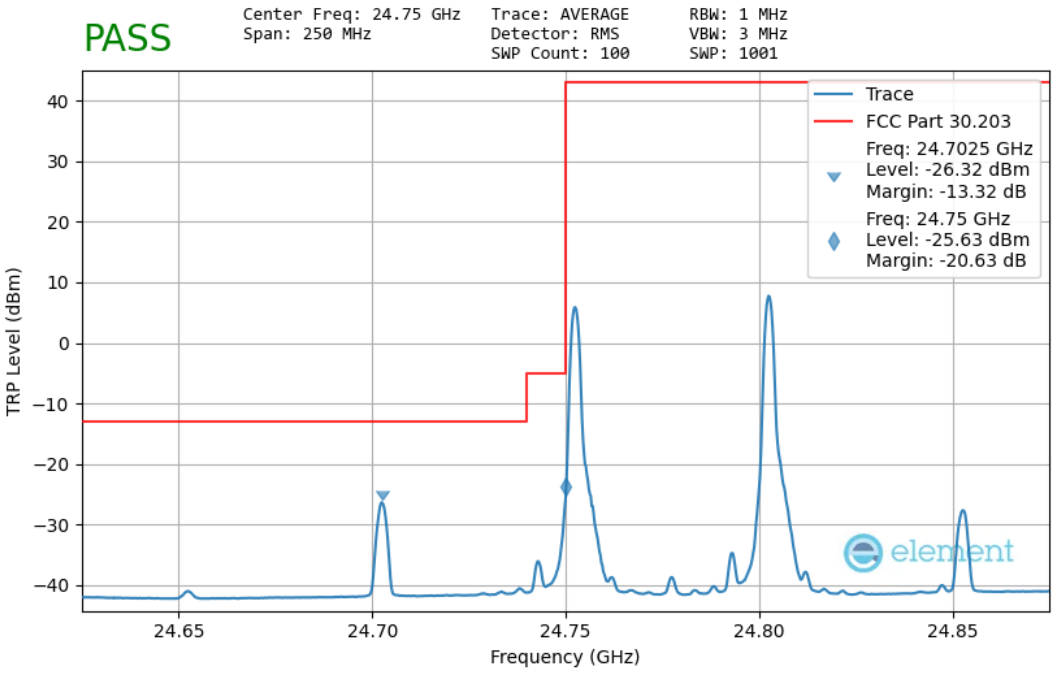


Plot 7-270. Ant 2 Upper Band Edge − TRP (100MHz-2CC – QPSK 1 RB)

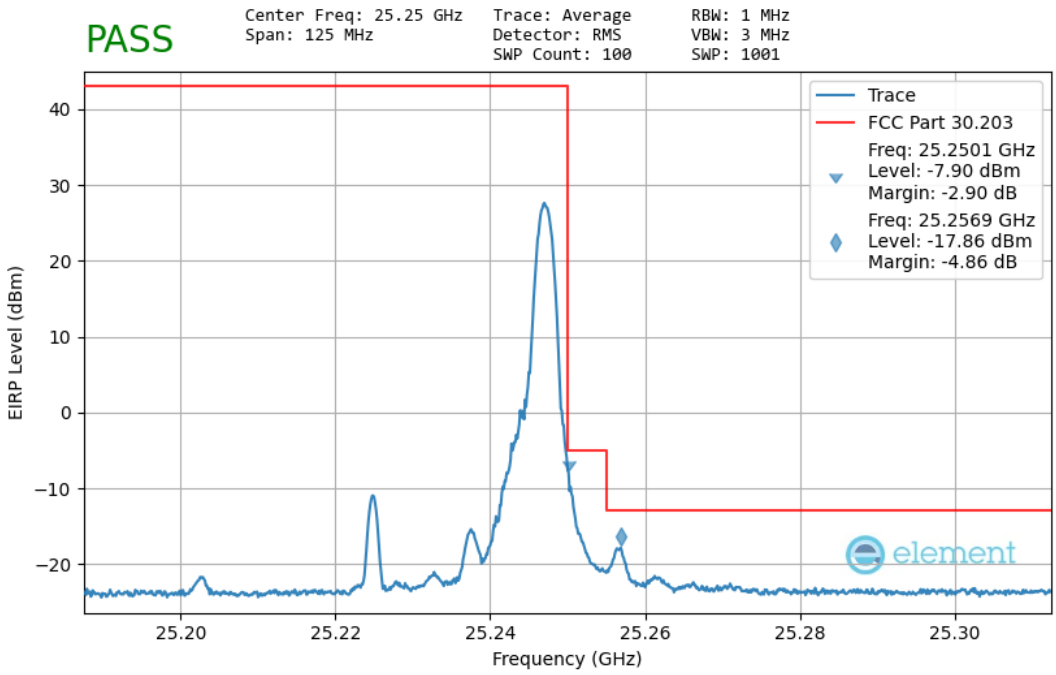
Band n258-R2 – Worst-Case



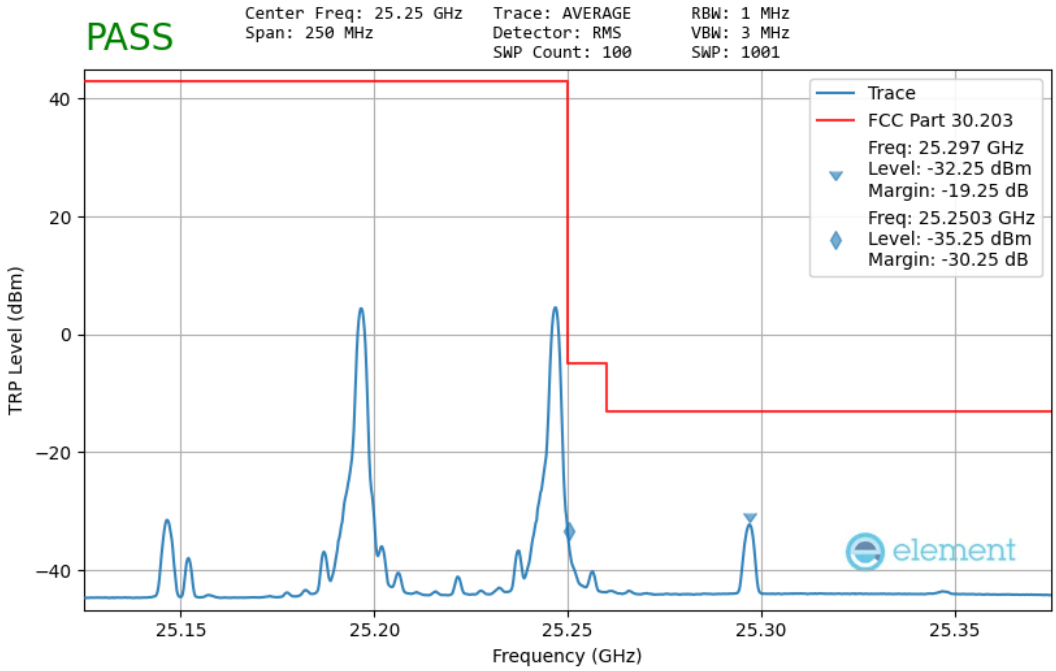
Plot 7-271. Ant 1 Lower Band Edge (50MHz-1CC – QPSK Full RB)



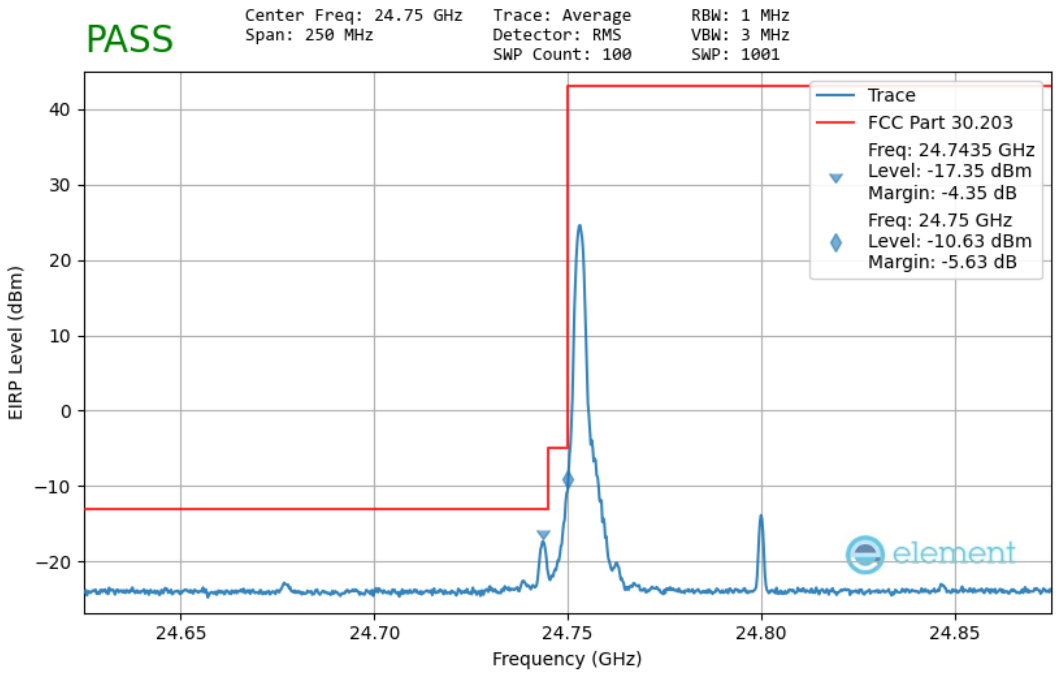
Plot 7-272. Ant 1 Lower Band Edge − TRP (50MHz-2CC – QPSK 1 RB)



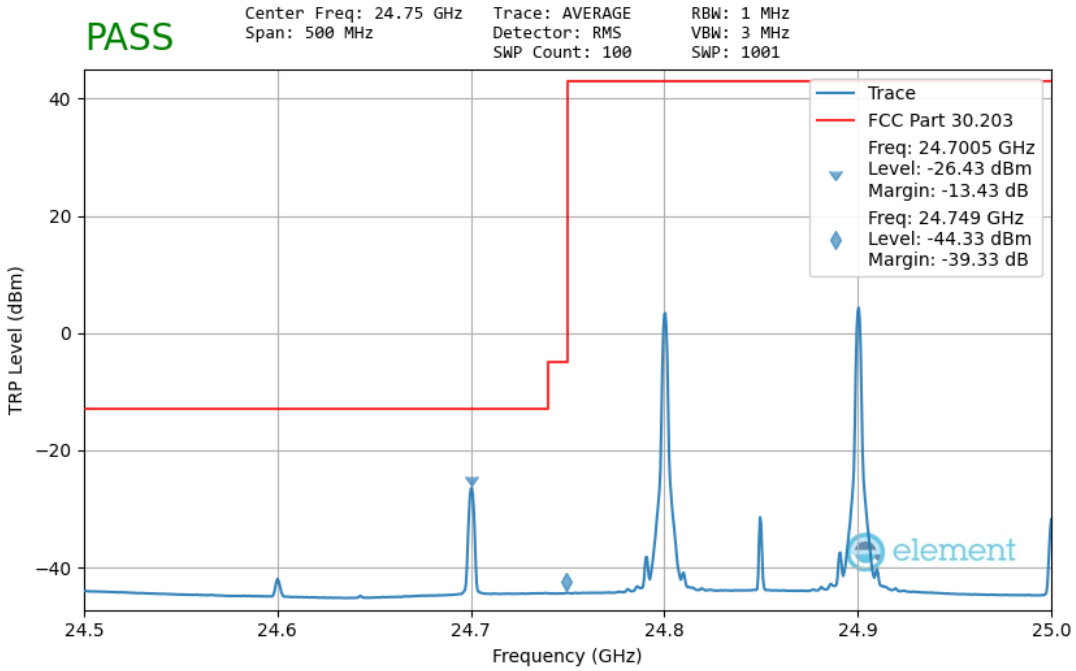
Plot 7-273. Ant 1 Upper Band Edge (50MHz-1CC – QPSK Full RB)



Plot 7-274. Ant 1 Upper Band Edge − TRP (50MHz-2CC – QPSK 1 RB)



Plot 7-275. Ant 1 Lower Band Edge (100MHz-1CC – QPSK 1 RB)



Plot 7-276. Ant 1 Lower Band Edge − TRP (100MHz-2CC – QPSK 1 RB)