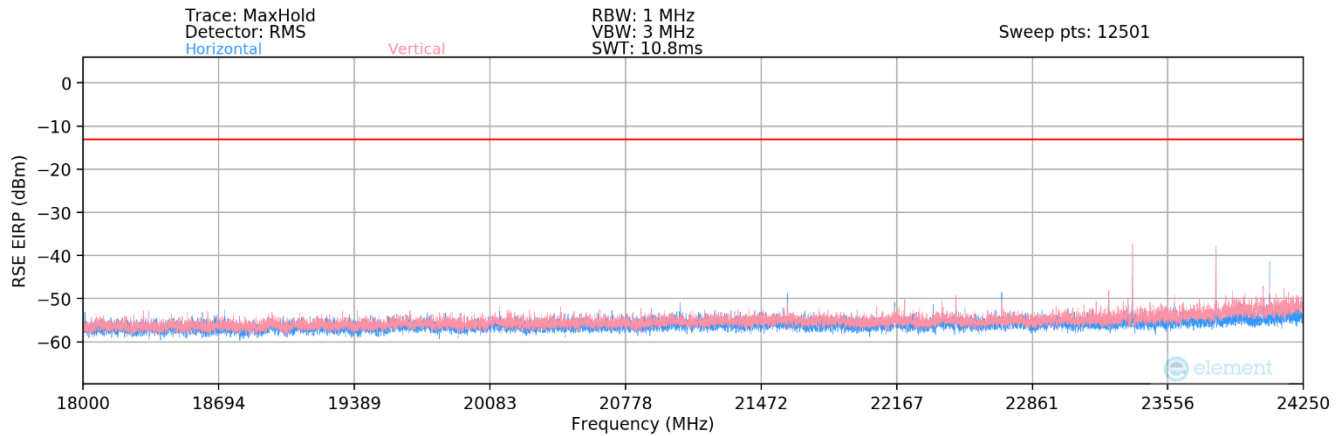
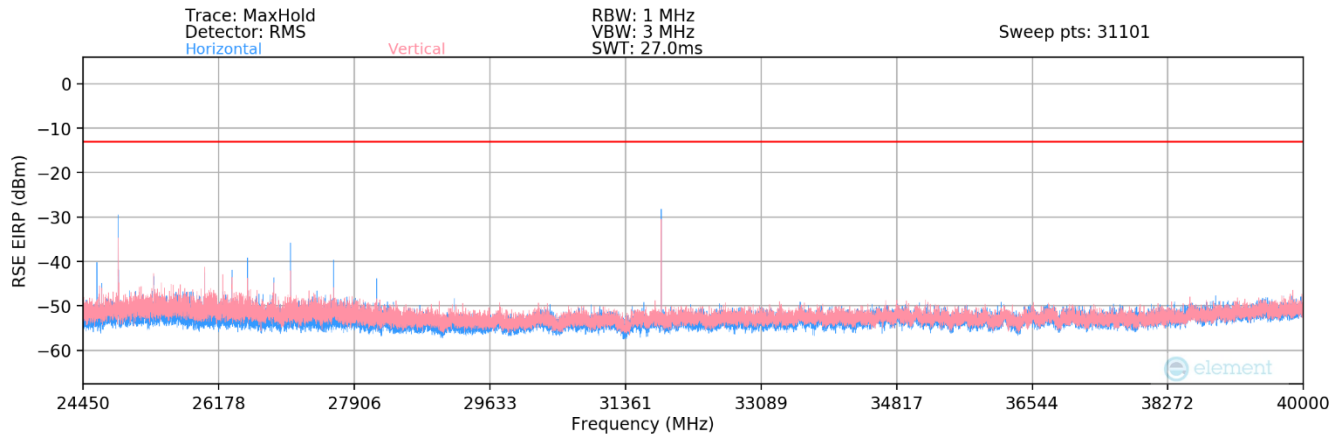


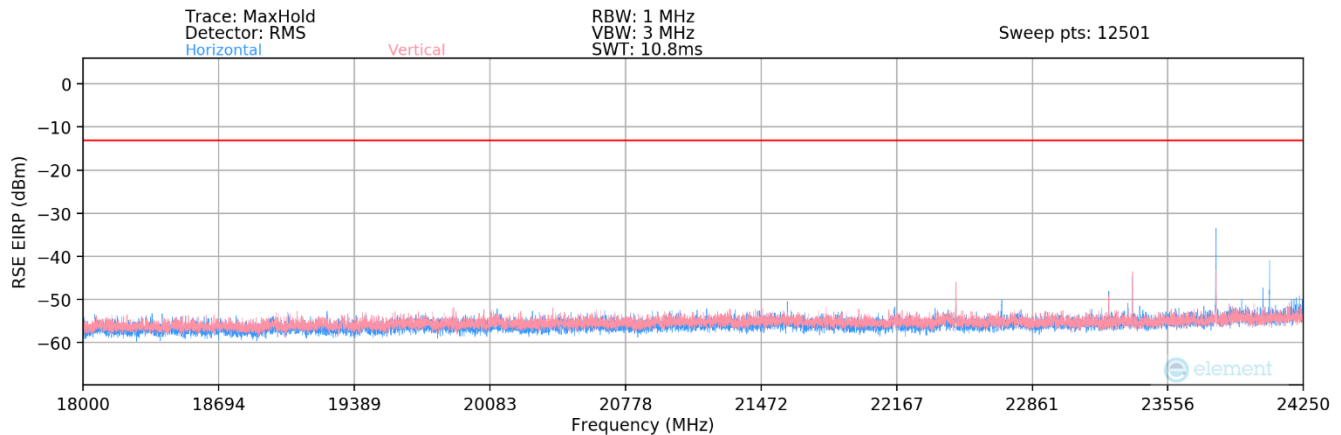
18GHz - 40GHz



Plot 7-101. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN

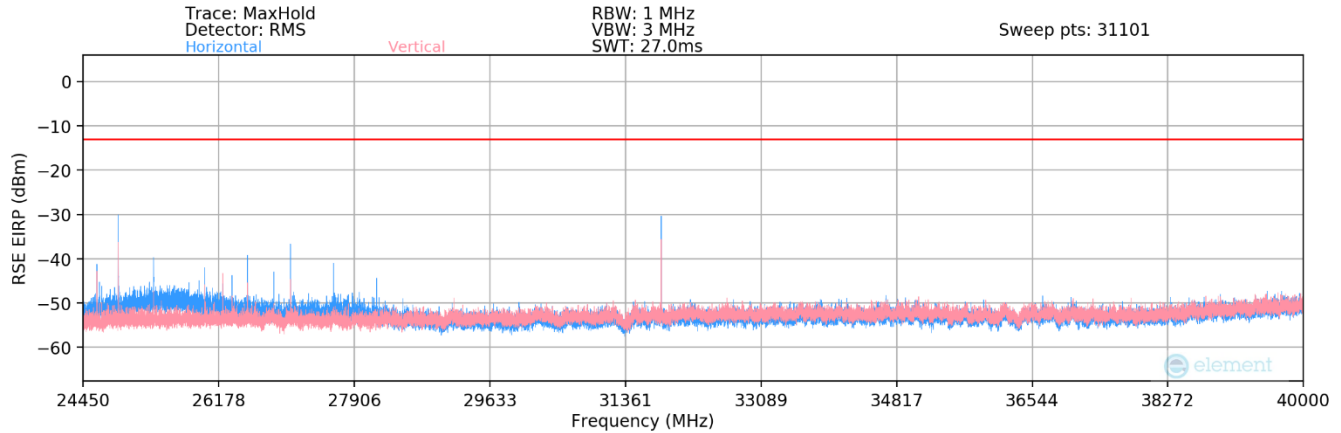


Plot 7-102. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN

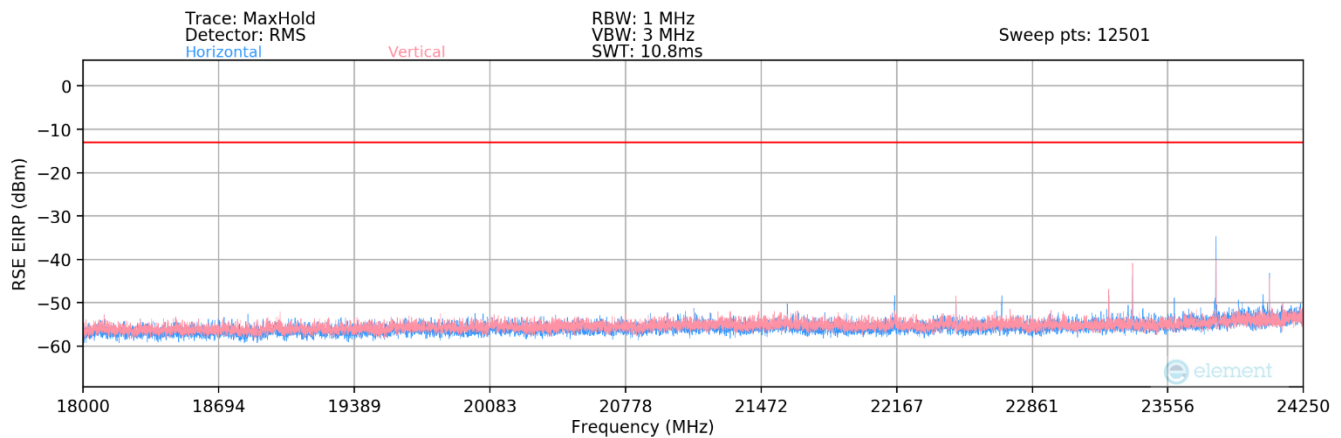


Plot 7-103. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED

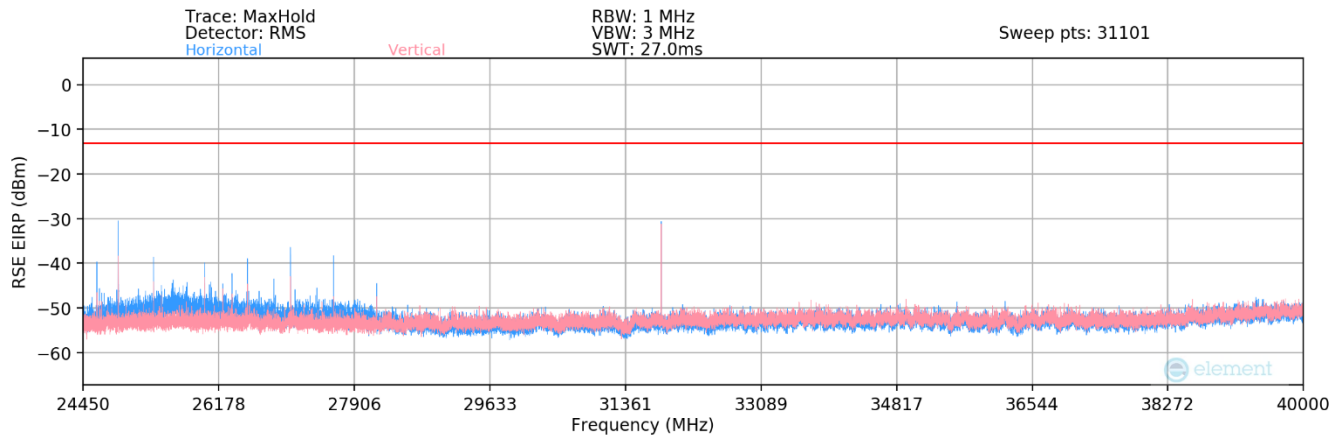
FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-104. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-105. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF



Plot 7-106. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
23451.00	Low	50	2Tx	QPSK	V	344	150	-44.03	-13.00	-31.03
23729.00	Low	50	2Tx	QPSK	H	37	150	-39.52	-13.00	-26.52
24824.14	Low	50	2Tx	QPSK	H	88	150	-36.52	-13.00	-23.52
27018.00	Low	50	2Tx	QPSK	H	341	150	-38.73	-13.00	-25.73
23253.00	Mid	50	2Tx	QPSK	V	345	150	-43.62	-13.00	-30.62
23375.00	Mid	50	2Tx	QPSK	H	80	150	-44.47	-13.00	-31.47
23801.46	Mid	50	2Tx	QPSK	H	34	150	-39.32	-13.00	-26.32
24899.50	Mid	50	2Tx	QPSK	H	64	150	-35.67	-13.00	-22.67
27093.00	Mid	50	2Tx	QPSK	H	68	150	-38.09	-13.00	-25.09
31817.00	Mid	50	2Tx	QPSK	H	340	150	-31.70	-13.00	-18.70
23299.80	High	50	2Tx	QPSK	V	327	150	-40.38	-13.00	-27.38
23876.78	High	50	2Tx	QPSK	H	35	150	-35.52	-13.00	-22.52
24974.00	High	50	2Tx	QPSK	H	95	150	-32.70	-13.00	-19.70
27168.00	High	50	2Tx	QPSK	H	78	150	-35.67	-13.00	-22.67

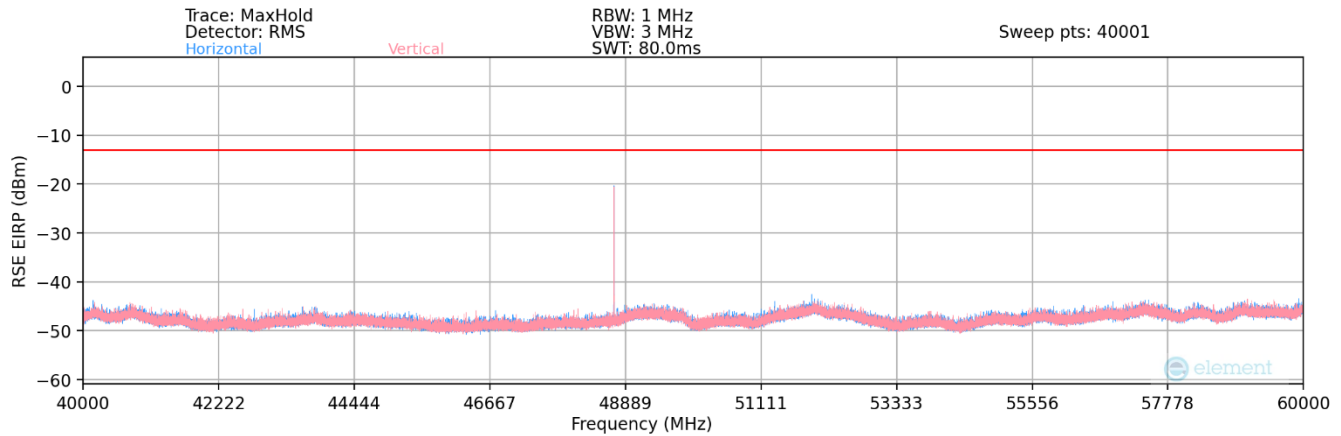
Table 7-49. Ant 1 - n258-R1 Radiated Spurious Emissions Table (18GHz - 40GHz)

Notes

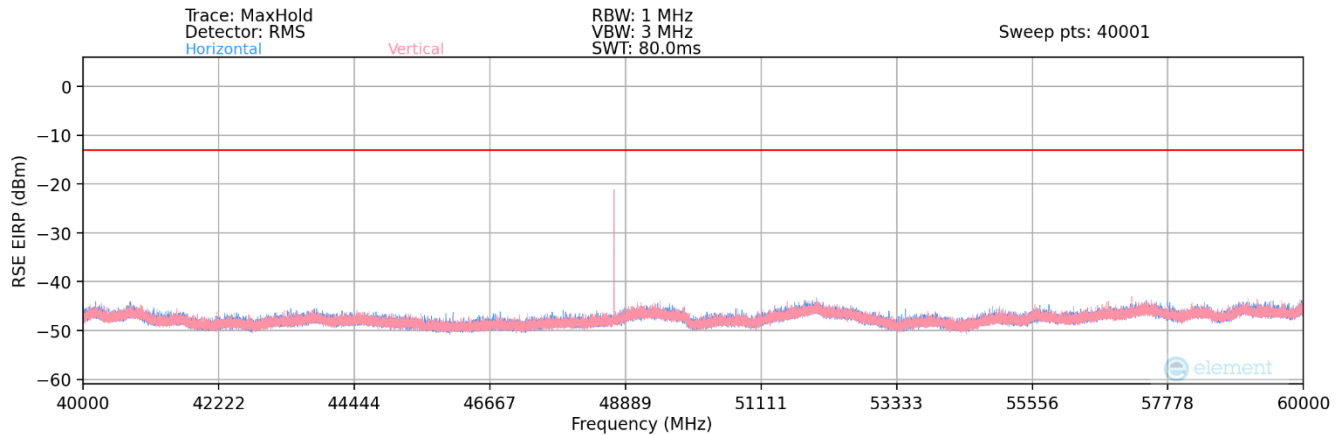
The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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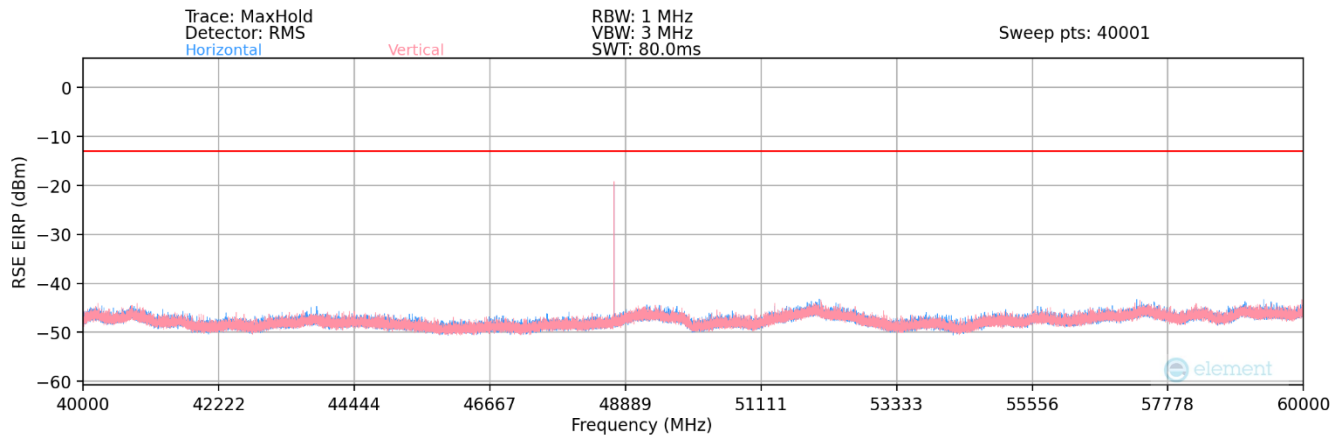
40GHz - 60GHz



Plot 7-107. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN



Plot 7-108. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-109. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
48550.08	Low	50	2Tx	QPSK	V	89	333	-17.69	-13.00	-4.69
48699.84	Mid	50	2Tx	QPSK	V	88	334	-17.36	-13.00	-4.36
48849.84	High	50	2Tx	QPSK	V	90	334	-17.25	-13.00	-4.25

Table 7-50. Ant 1 - n258-R1 Radiated Spurious Emissions Table (40GHz - 60GHz)

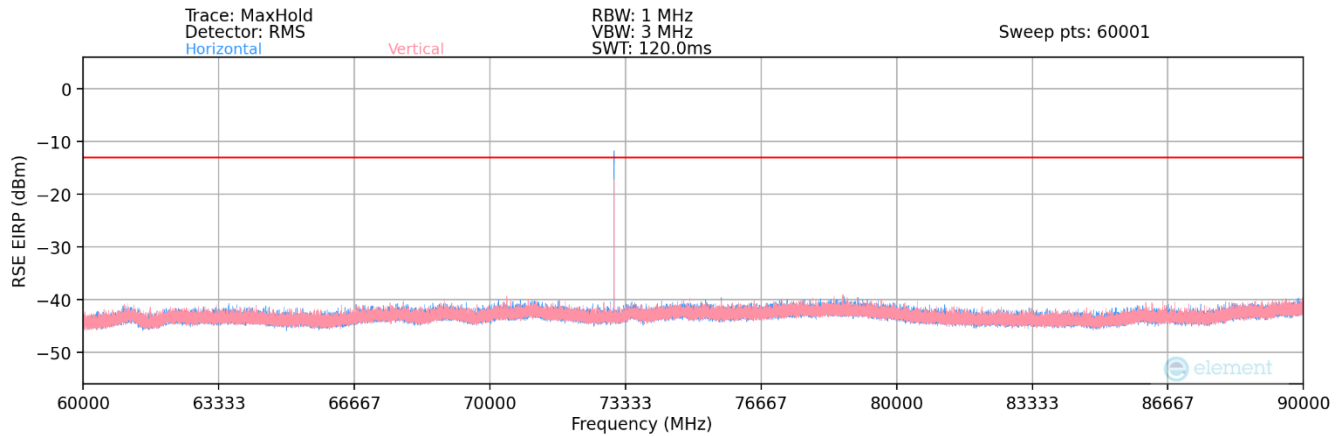
Notes

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.

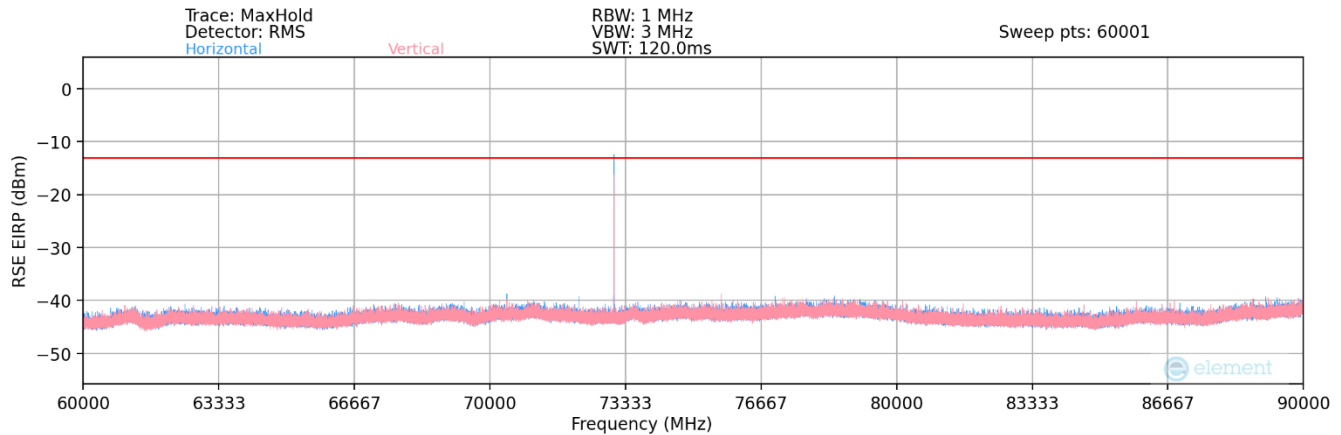
FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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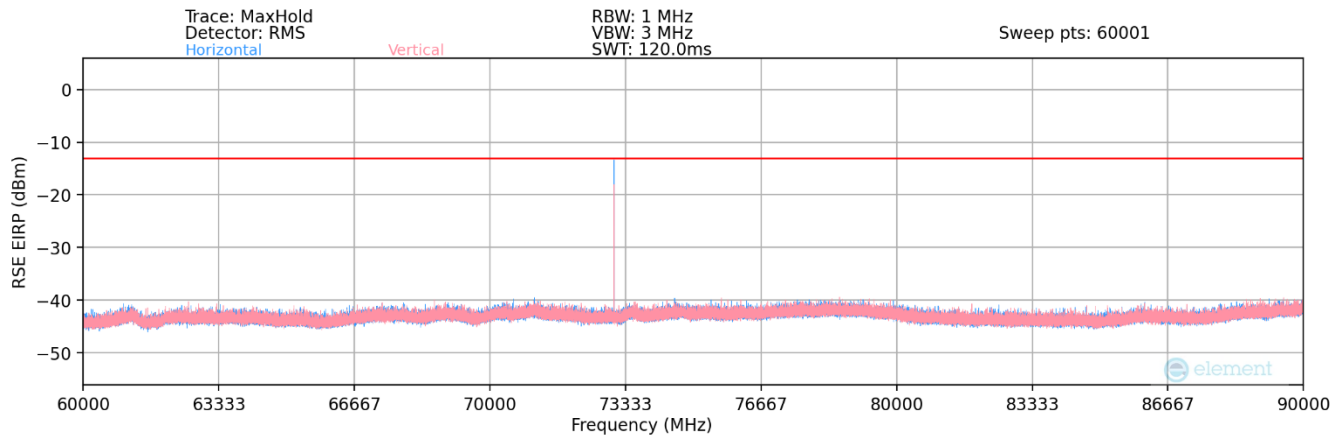
60GHz - 90GHz



Plot 7-110. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN



Plot 7-111. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-112. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
72825.12	Low	50	2Tx	QPSK	H	*	*	-24.06	-13.00	-11.06
73049.76	Mid	50	2Tx	QPSK	H	*	*	-24.49	-13.00	-11.49
73274.76	High	50	2Tx	QPSK	H	*	*	-23.83	-13.00	-10.83

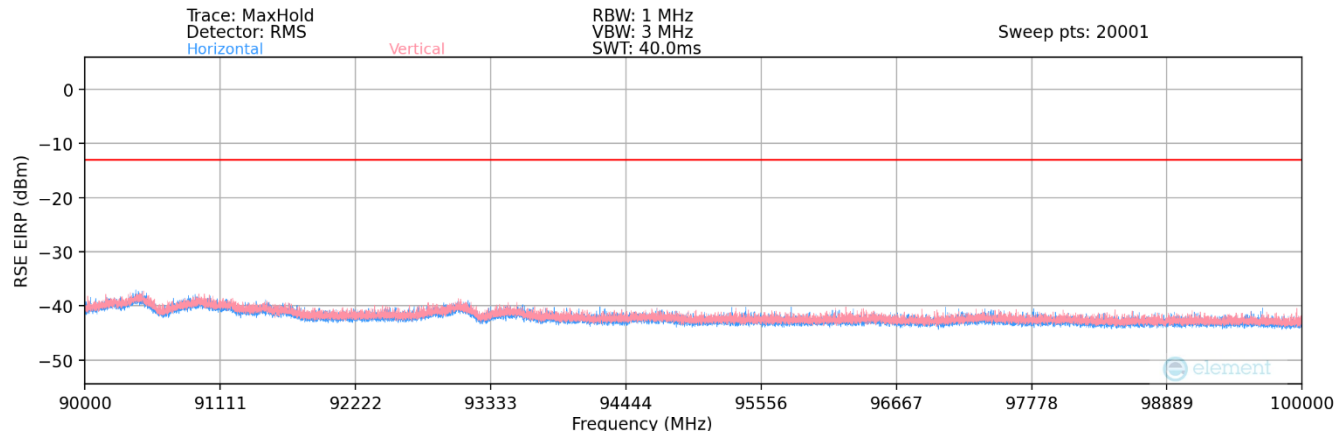
Table 7-51. Ant 1 - n258-R1 Radiated Spurious Emissions Table (60GHz - 90GHz)

Notes

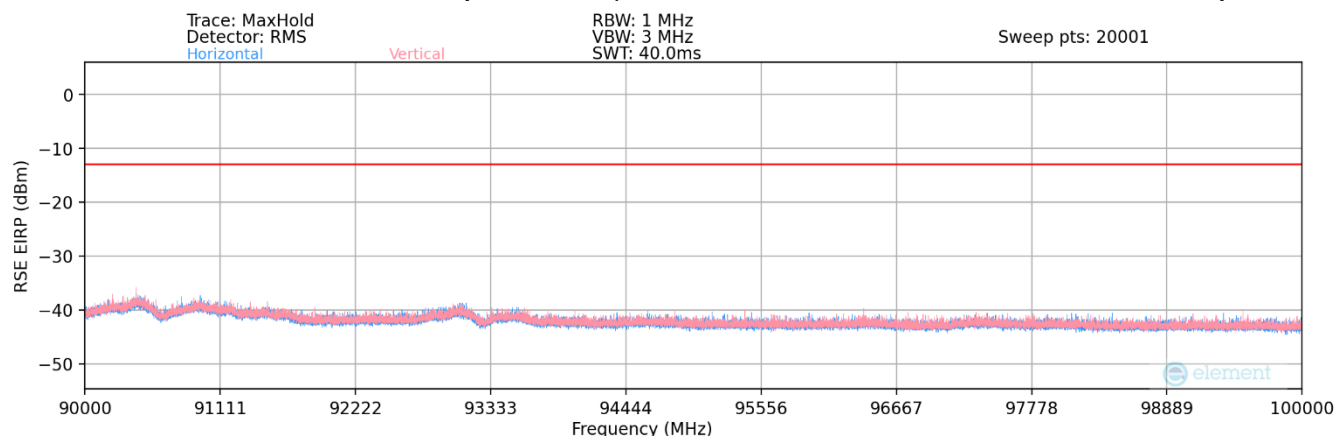
- 1) The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2) Rows marked with * indicate a spurious emission level that was measured using the Spherical Grid TRP Method per KDB 842590.

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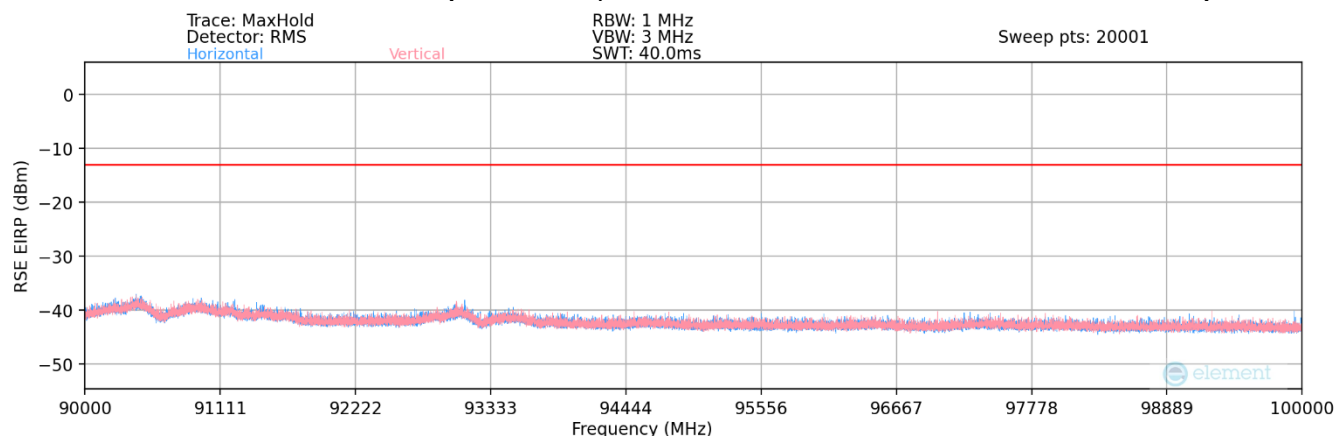
90GHz - 100GHz



Plot 7-113. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN



Plot 7-114. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-115. Ant 1 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
95349.98	Low	50	2Tx	QPSK	H	-	-	-48.09	-13.00	-35.09
96337.79	Mid	50	2Tx	QPSK	H	-	-	-48.24	-13.00	-35.24
97187.23	High	50	2Tx	QPSK	H	-	-	-47.82	-13.00	-34.82

Table 7-52. Ant 1 - n258-R1 Radiated Spurious Emissions Table (90GHz - 100GHz)

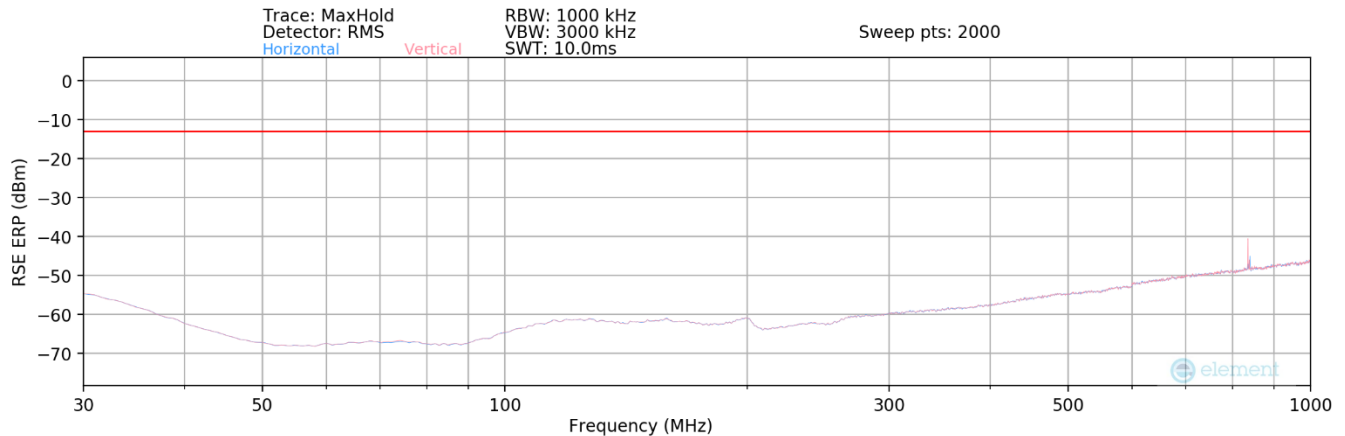
Notes

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.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n258-R1 – Ant 2

30MHz - 1GHz



Plot 7-116. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2)

Spurious Emissions ERP Sample Calculation (n258-R1)

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]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
749.56	Low	50	2Tx	QPSK	V	-	-	-47.82	-13.00	-34.82
837.66	Mid	50	2Tx	QPSK	V	-	-	-46.62	-13.00	-33.62
973.22	High	50	2Tx	QPSK	V	-	-	-45.33	-13.00	-32.33

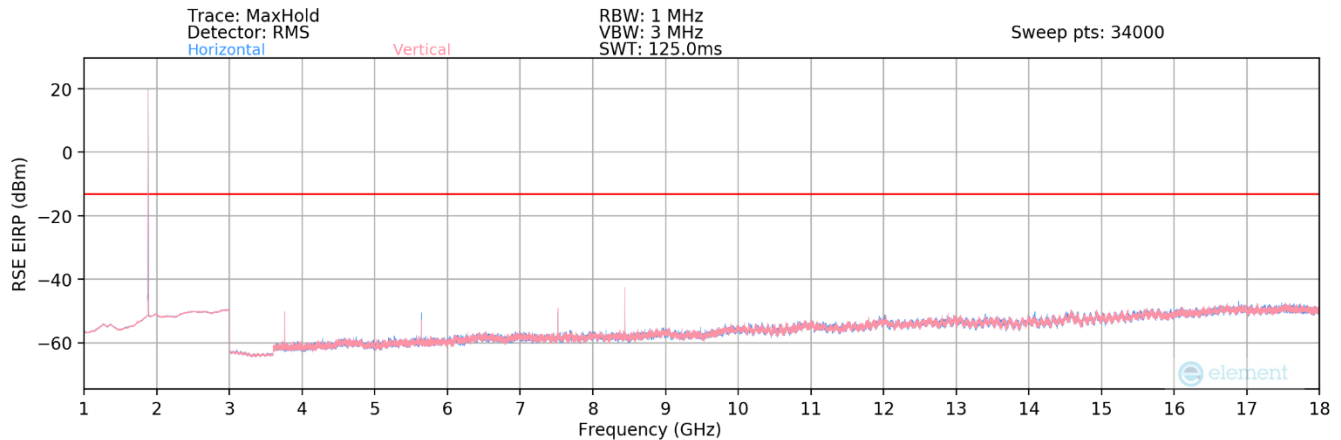
Table 7-53. Ant 2 - n258-R1 Radiated Spurious Emissions Table (30MHz - 1GHz)

Notes

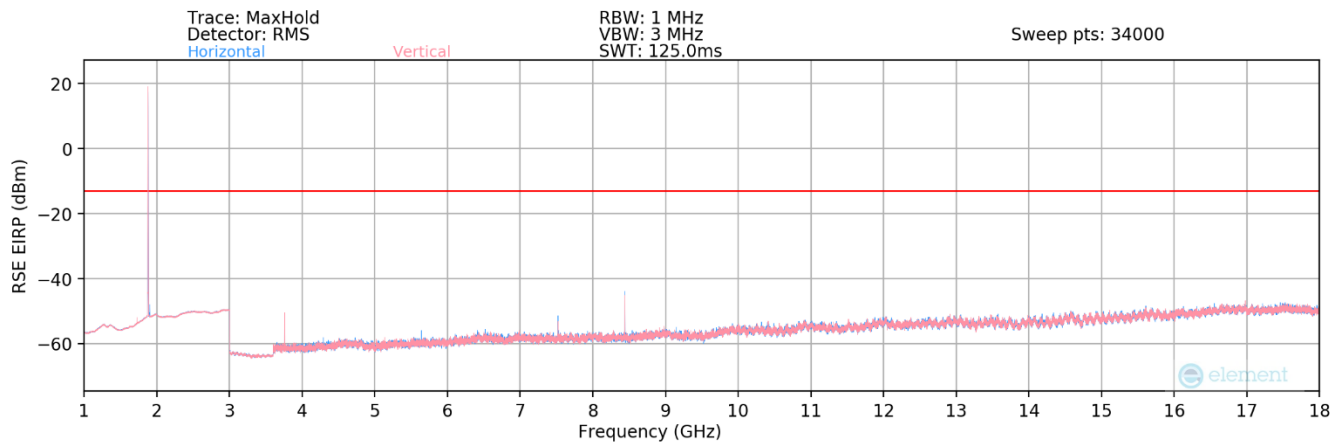
The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

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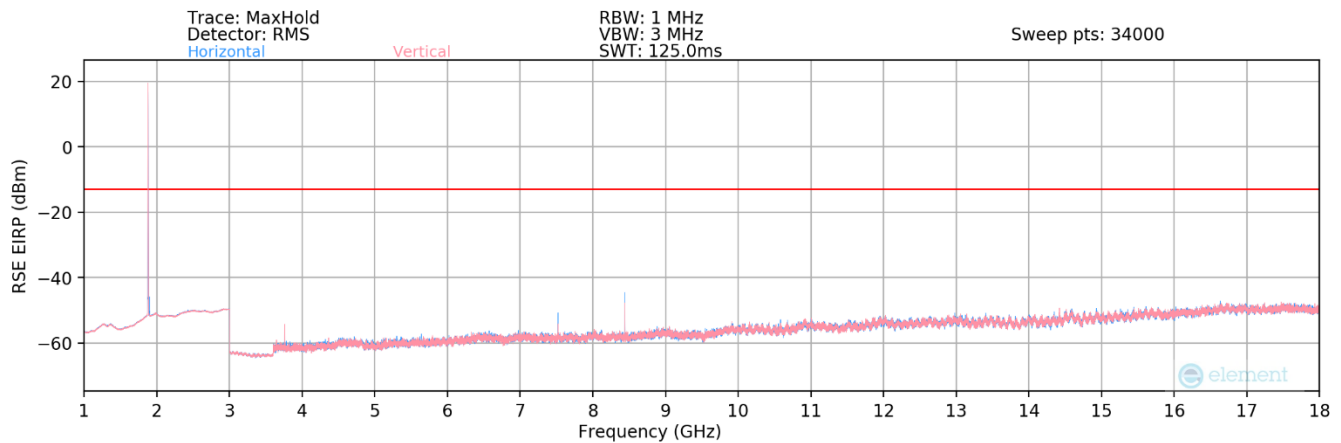
1GHz - 18GHz



Plot 7-117. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _OPEN



Plot 7-118. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _CLOSED



Plot 7-119. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _HALF

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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8367.00	Low	50	2Tx	QPSK	V	26	173	-43.03	-13.00	-30.03
8442.00	Mid	50	2Tx	QPSK	V	25	177	-43.33	-13.00	-30.33
8517.00	High	50	2Tx	QPSK	V	27	172	-42.67	-13.00	-29.67

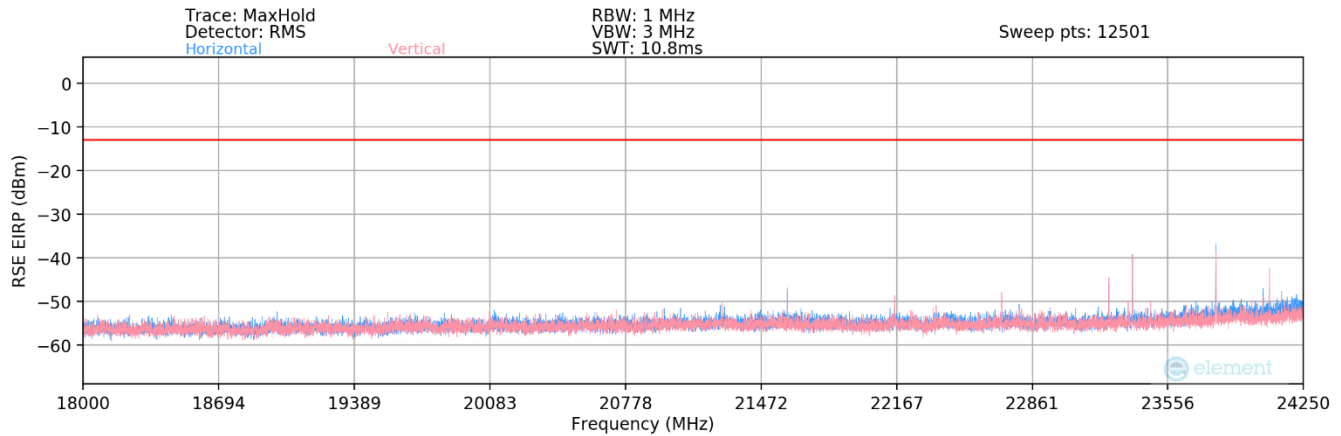
Table 7-54. Ant 2 - n258-R1 Radiated Spurious Emissions Table (1GHz - 18GHz)

Notes

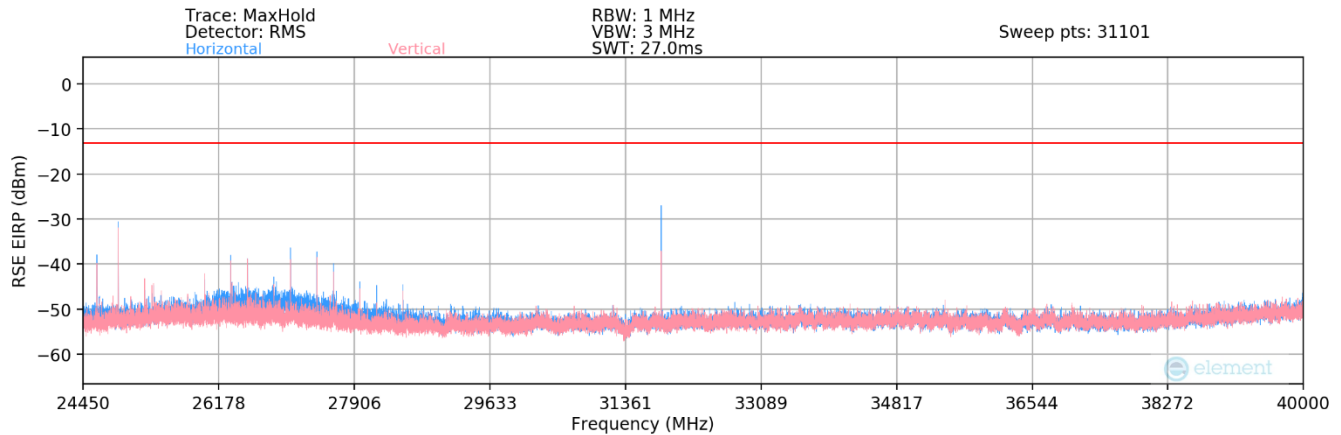
The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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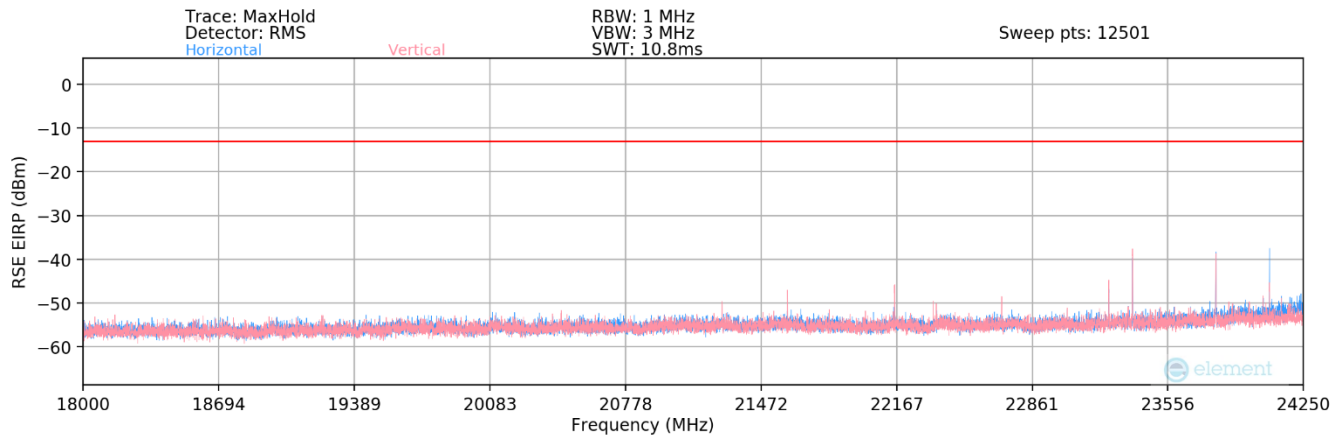
18GHz - 40GHz



Plot 7-120. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN

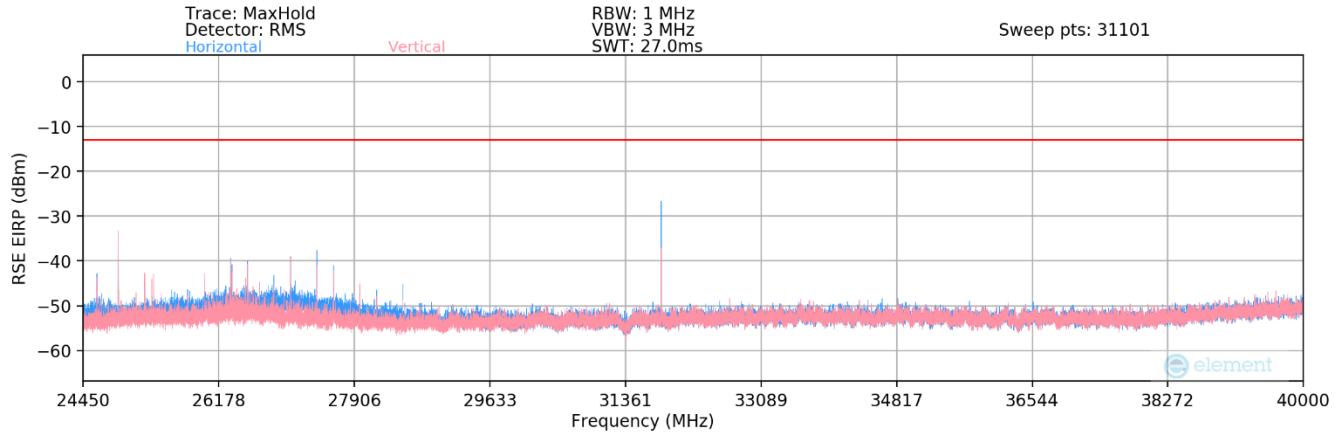


Plot 7-121. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN

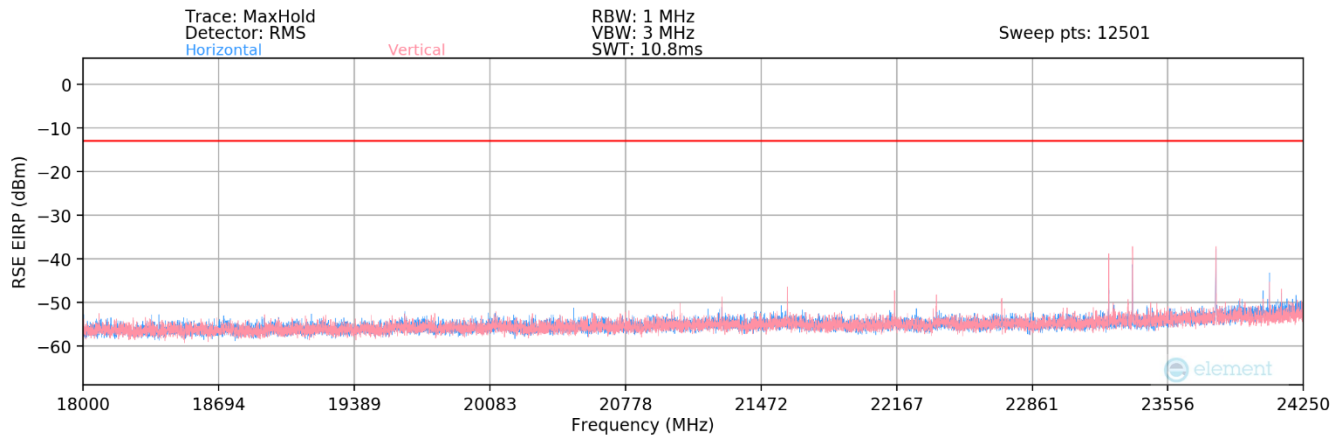


Plot 7-122. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED

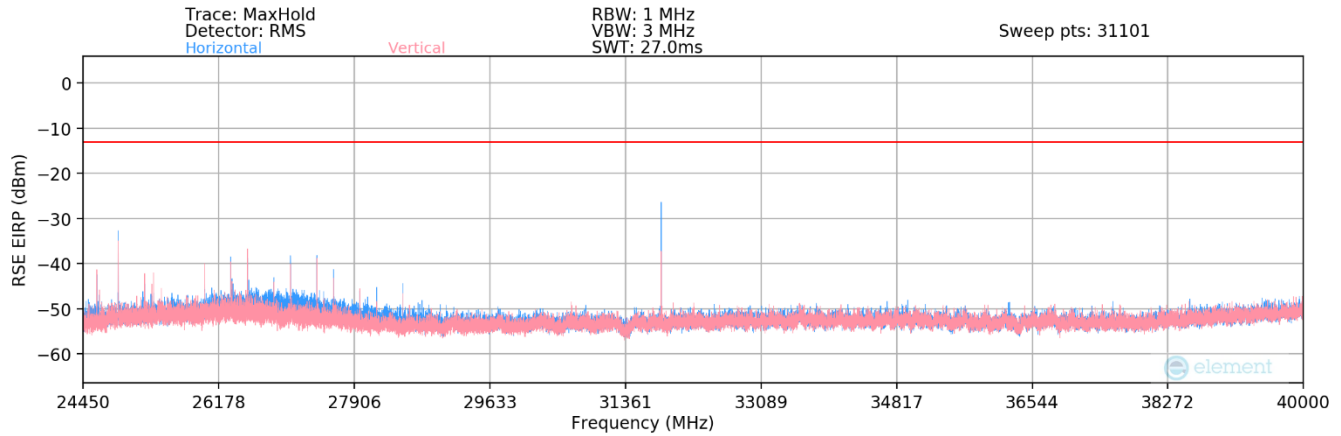
FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-123. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-124. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF



Plot 7-125. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
23450.85	Low	50	2Tx	QPSK	V	10	150	-37.60	-13.00	-24.60
23727.90	Low	50	2Tx	QPSK	H	0	150	-40.96	-13.00	-27.96
24824.14	Low	50	2Tx	QPSK	H	26	150	-37.63	-13.00	-24.63
27018.00	Low	50	2Tx	QPSK	H	272	150	-37.80	-13.00	-24.80
23253.00	Mid	50	2Tx	QPSK	V	340	150	-45.19	-13.00	-32.19
23375.00	Mid	50	2Tx	QPSK	H	17	150	-40.03	-13.00	-27.03
23801.46	Mid	50	2Tx	QPSK	H	18	150	-39.74	-13.00	-26.74
24899.50	Mid	50	2Tx	QPSK	H	42	150	-36.09	-13.00	-23.09
27093.00	Mid	50	2Tx	QPSK	H	274	150	-38.39	-13.00	-25.39
31817.00	Mid	50	2Tx	QPSK	H	273	150	-26.17	-13.00	-13.17
23299.80	High	50	2Tx	QPSK	V	336	150	-39.05	-13.00	-26.05
23876.78	High	50	2Tx	QPSK	H	13	150	-39.72	-13.00	-26.72
24974.00	High	50	2Tx	QPSK	H	228	150	-34.68	-13.00	-21.68
27168.00	High	50	2Tx	QPSK	H	274	150	-38.56	-13.00	-25.56

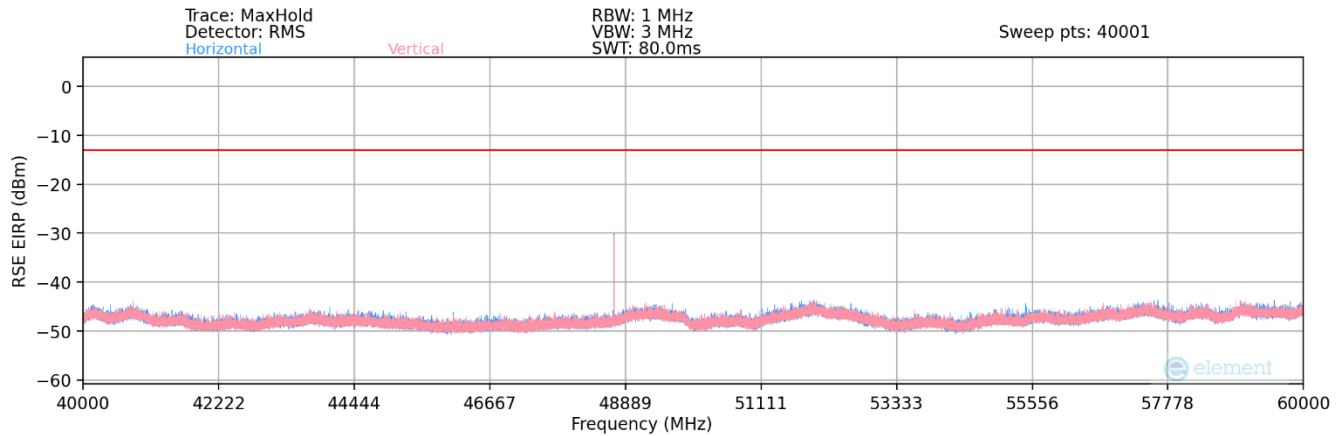
Table 7-55. Ant 2 - n258-R1 Radiated Spurious Emissions Table (18GHz - 40GHz)

Notes

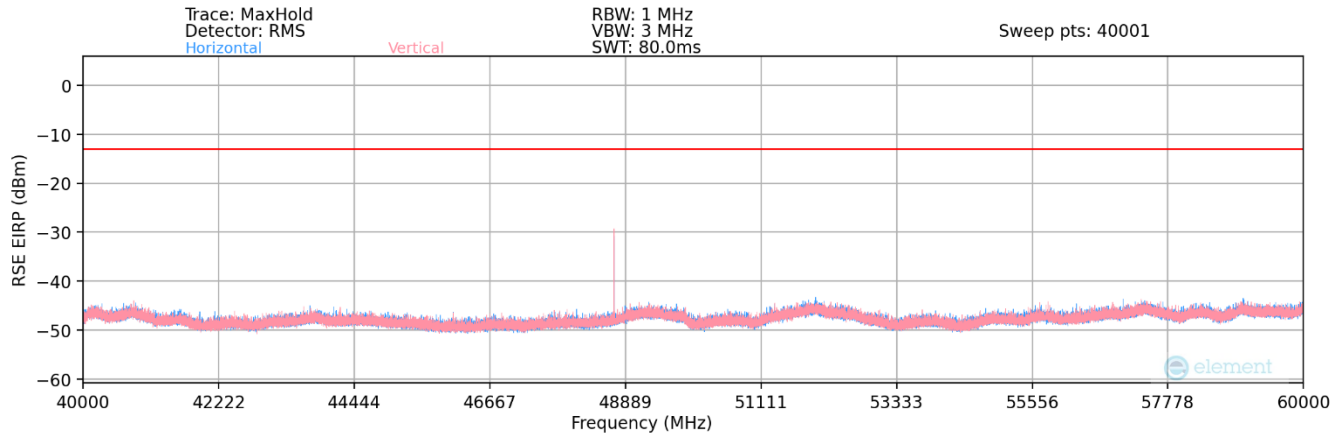
The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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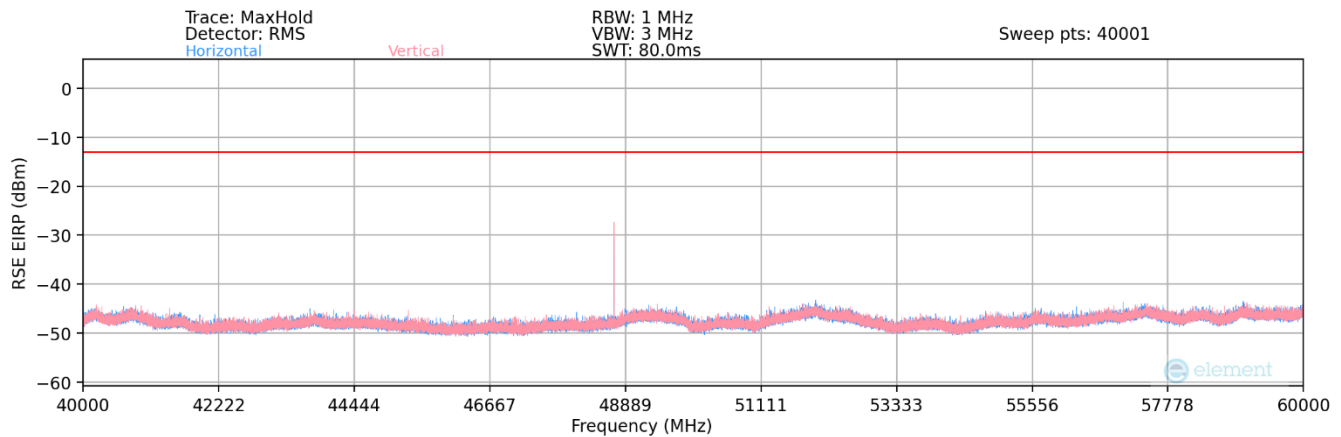
40GHz - 60GHz



Plot 7-126. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN



Plot 7-127. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-128. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
48550.08	Low	50	2Tx	QPSK	V	57	114	-23.83	-13.00	-10.83
48699.84	Mid	50	2Tx	QPSK	V	52	114	-24.42	-13.00	-11.42
48849.84	High	50	2Tx	QPSK	V	60	114	-23.15	-13.00	-10.15

Table 7-56. Ant 2 - n258-R1 Radiated Spurious Emissions Table (40GHz - 60GHz)

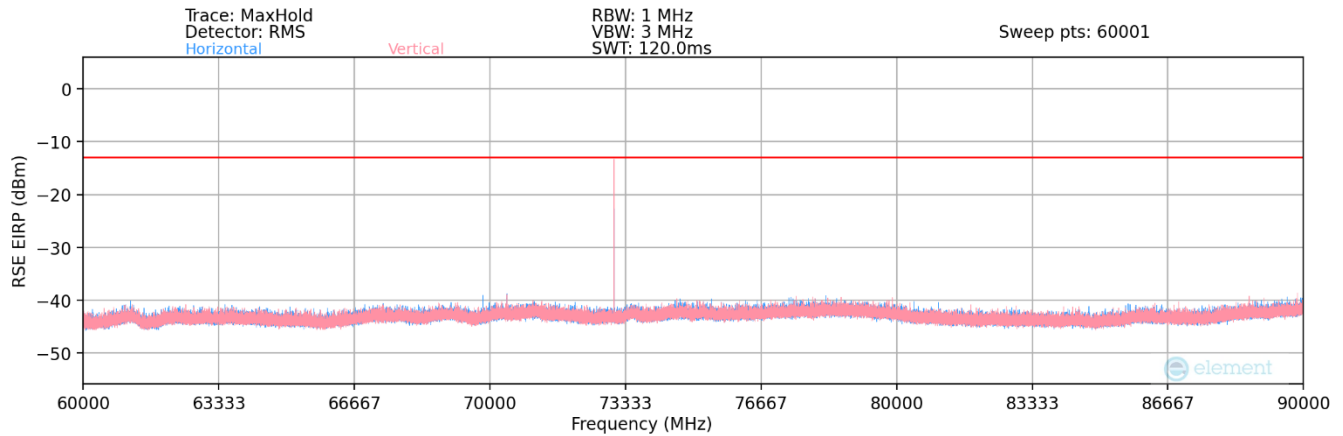
Notes

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.

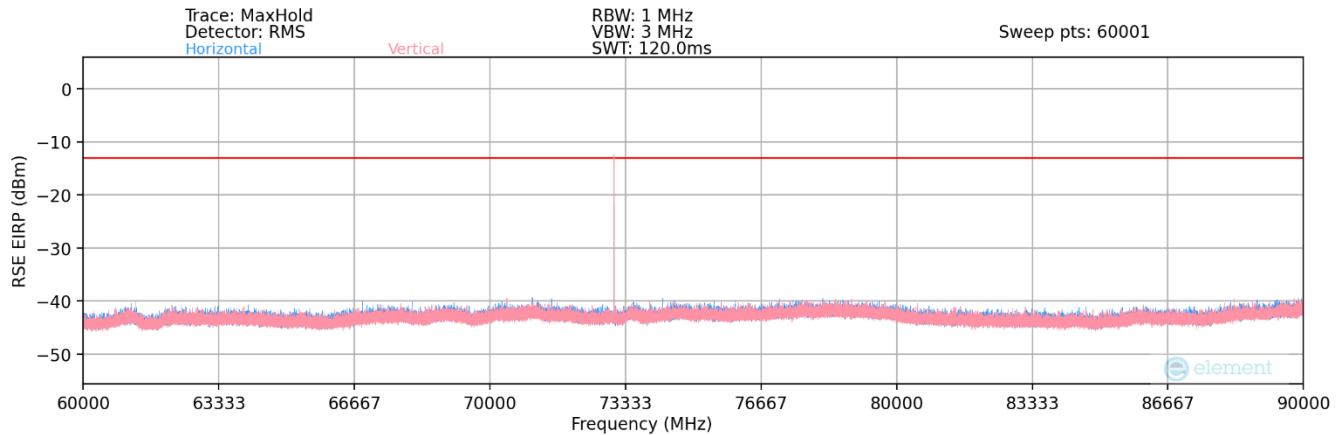
FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204010046-01.A3L	Test Dates: 4/18 – 6/14/2022	EUT Type: Portable Handset	Page 104 of 248

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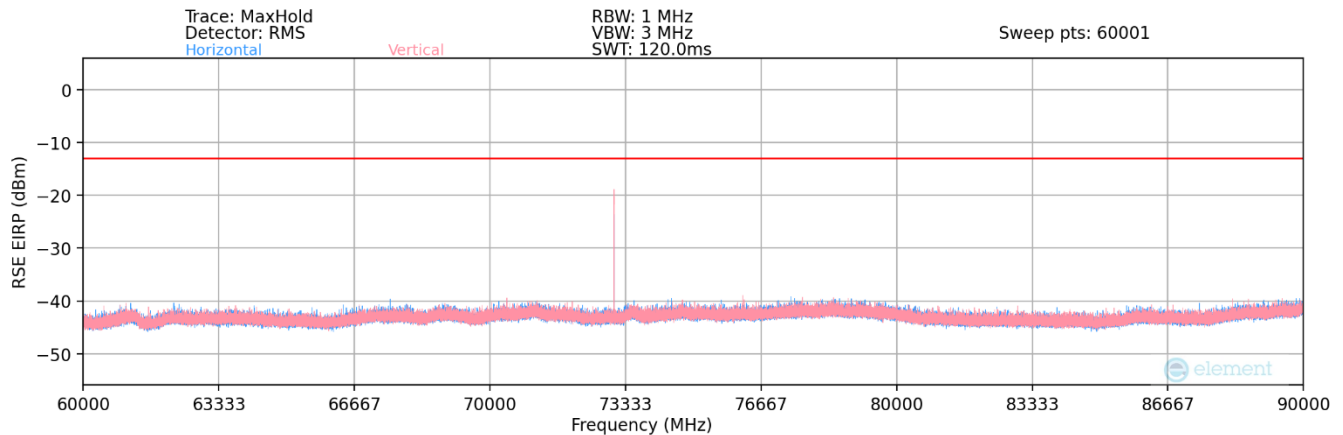
60GHz - 90GHz



Plot 7-129. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN



Plot 7-130. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-131. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
72825.12	Low	50	2Tx	QPSK	V	*	*	-27.61	-13.00	-14.61
73049.76	Mid	50	2Tx	QPSK	V	*	*	-26.99	-13.00	-13.99
73274.76	High	50	2Tx	QPSK	V	*	*	-26.95	-13.00	-13.95

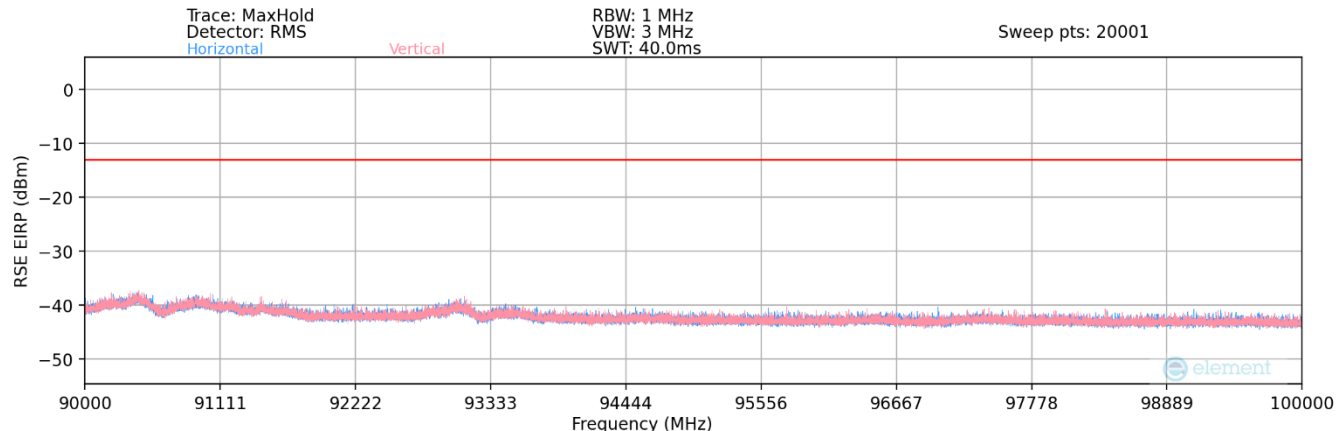
Table 7-57. Ant 2 - n258-R1 Radiated Spurious Emissions Table (60GHz - 90GHz)

Notes

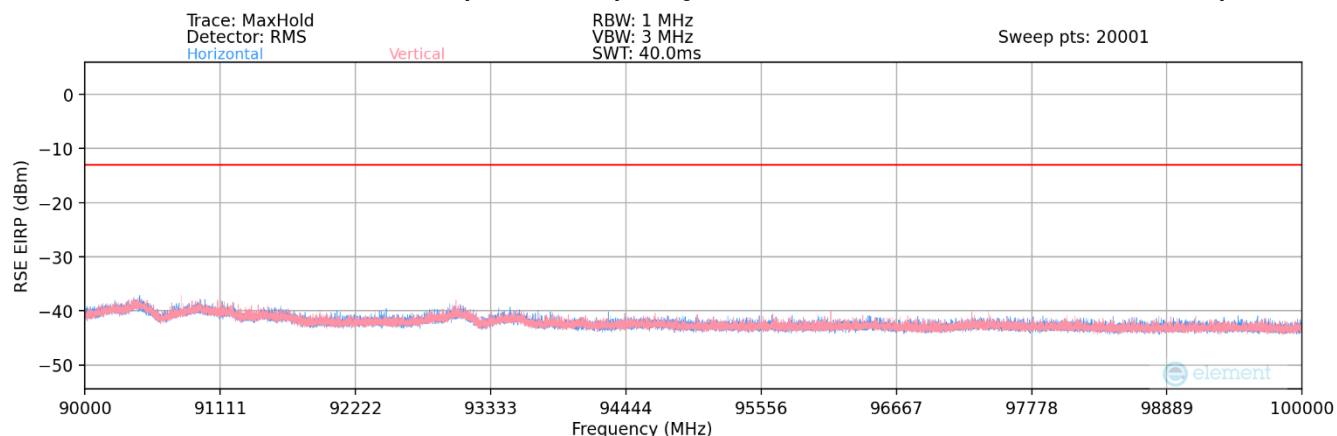
- 1) The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2) Rows marked with * indicate a spurious emission level that was measured using the Spherical Grid TRP Method per KDB 842590.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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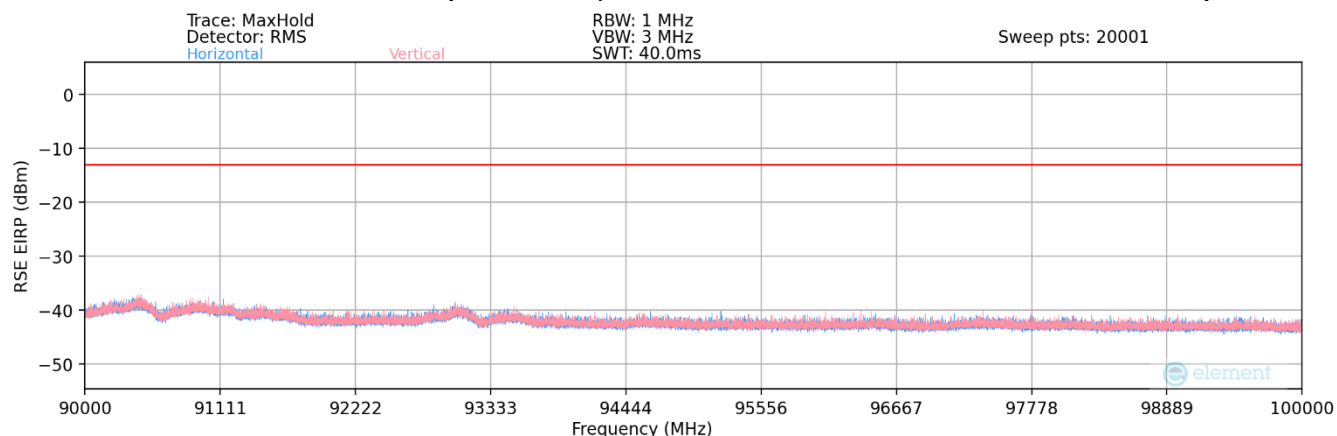
90GHz - 100GHz



Plot 7-132. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN



Plot 7-133. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-134. Ant 2 - n258-R1 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Spurious Emissions EIRP Sample Calculation (n258-R1)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
94542.97	Low	50	2Tx	QPSK	V	-	-	-47.12	-13.00	-34.12
94769.70	Mid	50	2Tx	QPSK	V	-	-	-47.32	-13.00	-34.32
95762.71	High	50	2Tx	QPSK	V	-	-	-47.56	-13.00	-34.56

Table 7-58. Ant 2 - n258-R1 Radiated Spurious Emissions Table (90GHz - 100GHz)

Notes

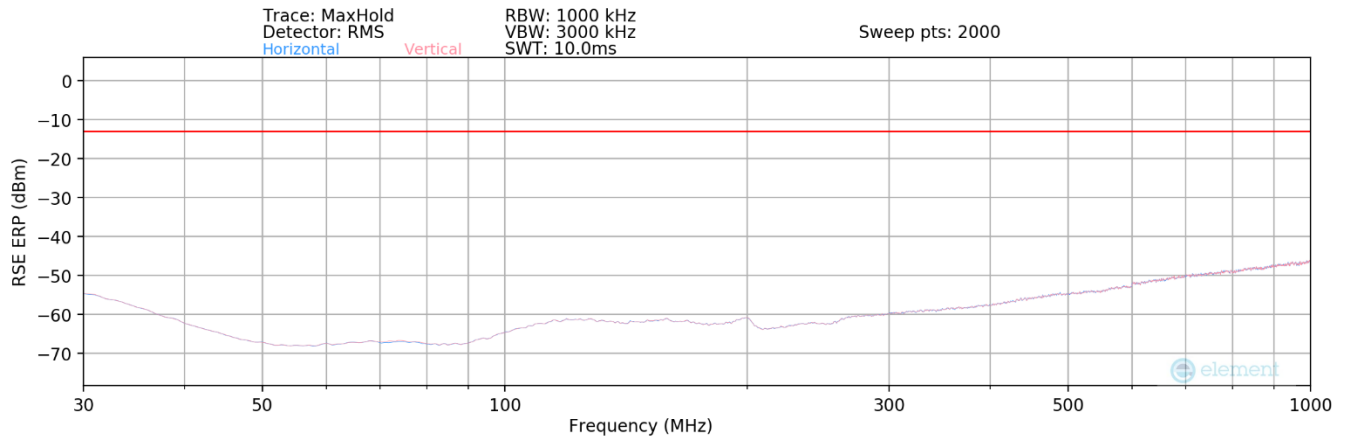
The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Band n258-R2 – Ant 1

30MHz - 1GHz



Plot 7-135. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2)

Spurious Emissions ERP Sample Calculation (n258-R2)

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]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
512.00	Low	50	2Tx	QPSK	H	-	-	-52.92	-13.00	-39.92
838.00	Mid	50	2Tx	QPSK	H	-	-	-46.65	-13.00	-33.65
972.00	High	50	2Tx	QPSK	H	-	-	-45.48	-13.00	-32.48

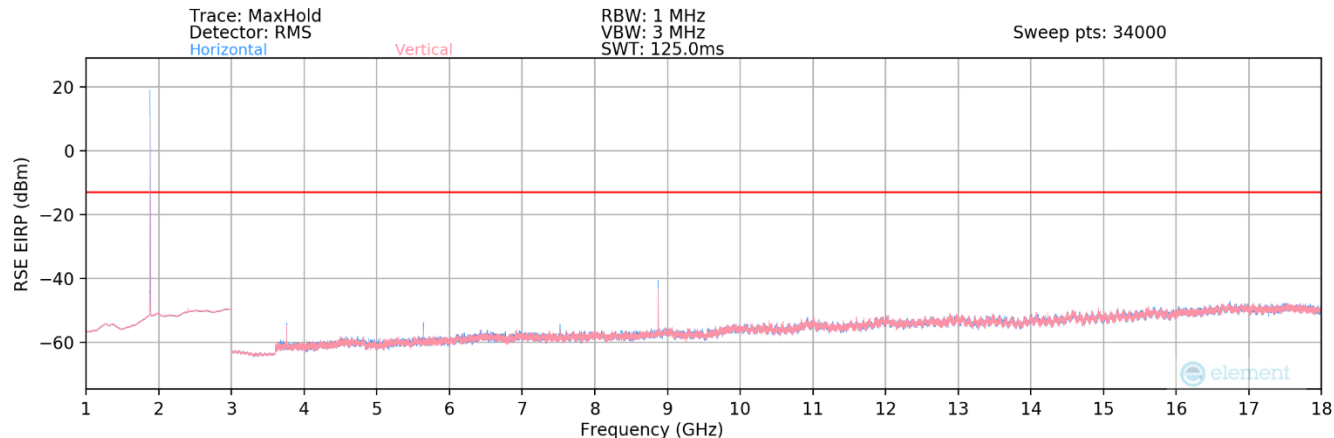
Table 7-59. Ant 1 - n258-R2 Radiated Spurious Emissions Table (30MHz - 1GHz)

Notes

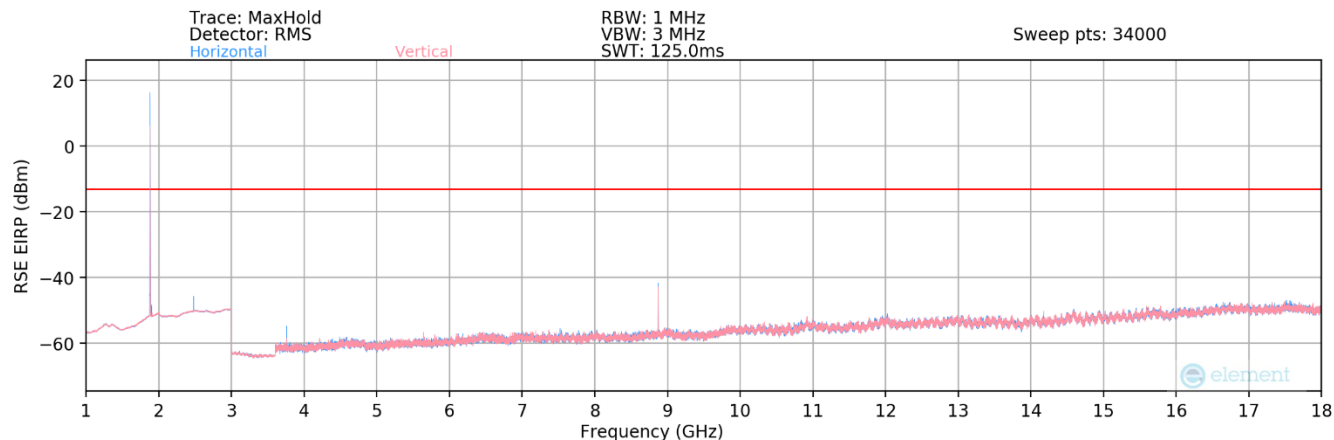
The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

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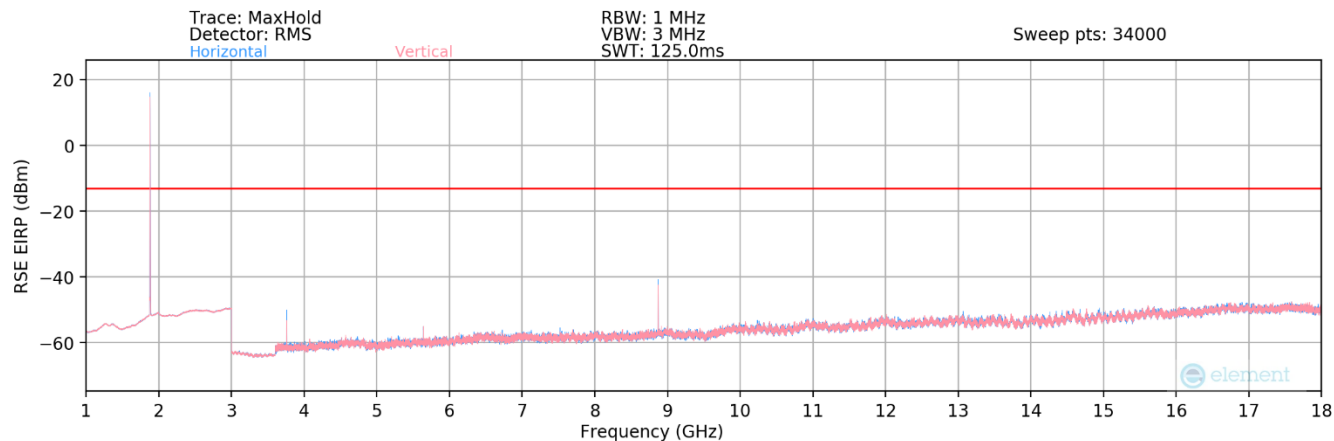
1GHz - 18GHz



Plot 7-136. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _OPEN



Plot 7-137. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _CLOSED



Plot 7-138. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _HALF

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Spurious Emissions EIRP Sample Calculation (n258-R2)

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]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8847.00	Low	50	2Tx	QPSK	H	55	161	-38.66	-13.00	-25.66
8872.50	Mid	50	2Tx	QPSK	H	47	172	-38.79	-13.00	-25.79
8893.00	High	50	2Tx	QPSK	H	50	165	-37.53	-13.00	-24.53

Table 7-60. Ant 1 - n258-R2 Radiated Spurious Emissions Table (1GHz - 18GHz)

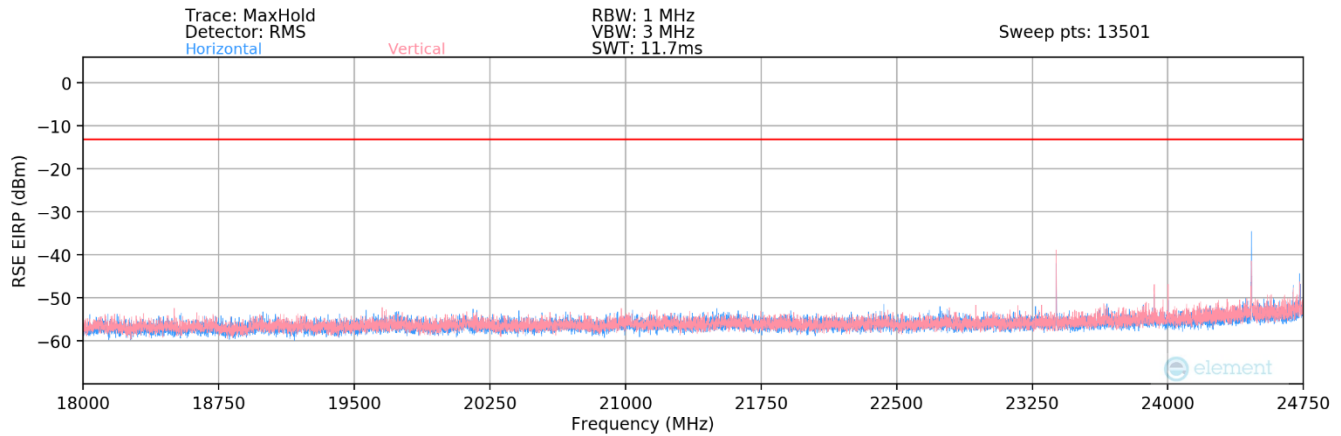
Notes

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.

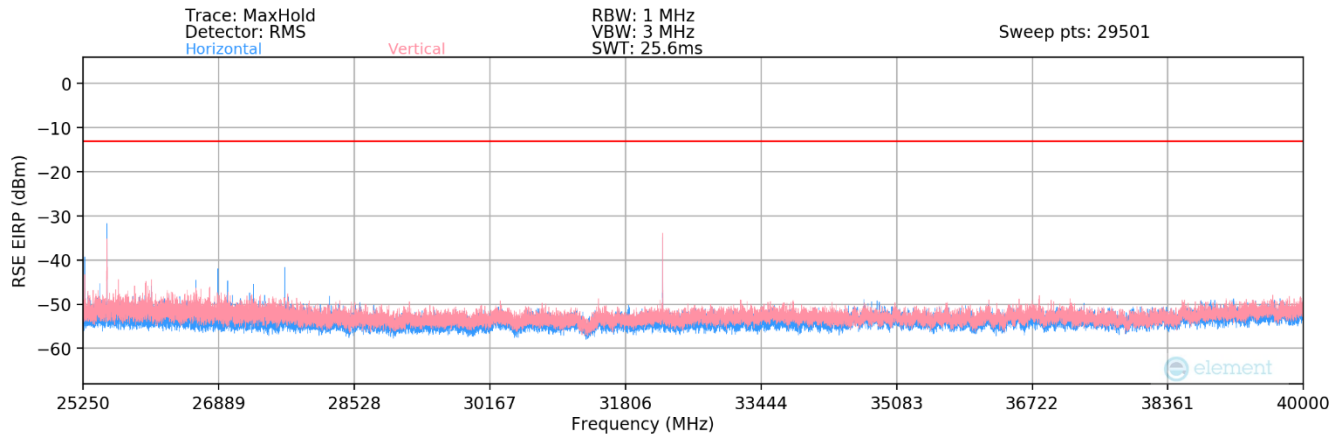
FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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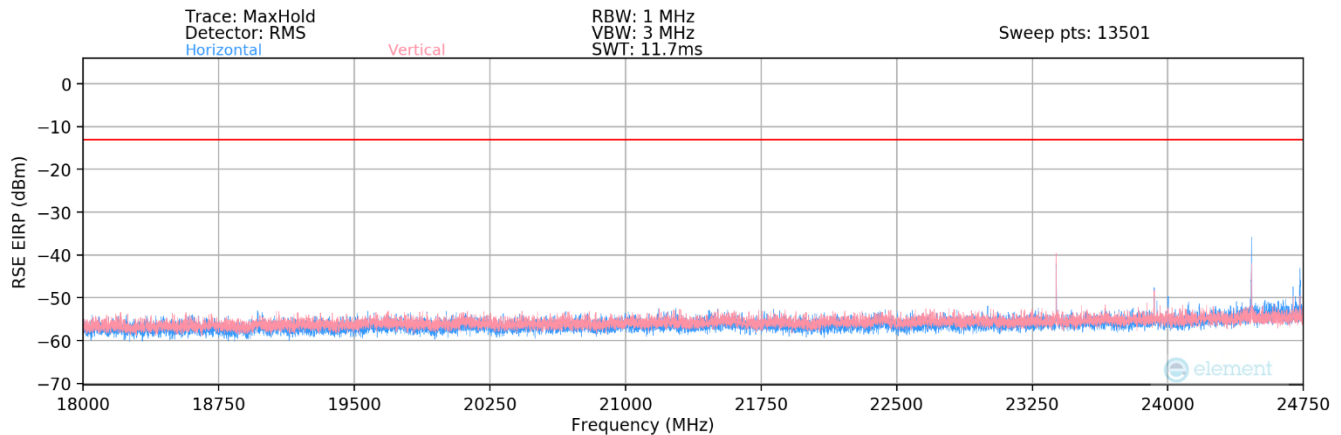
18GHz – 40GHz



Plot 7-139. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _OPEN

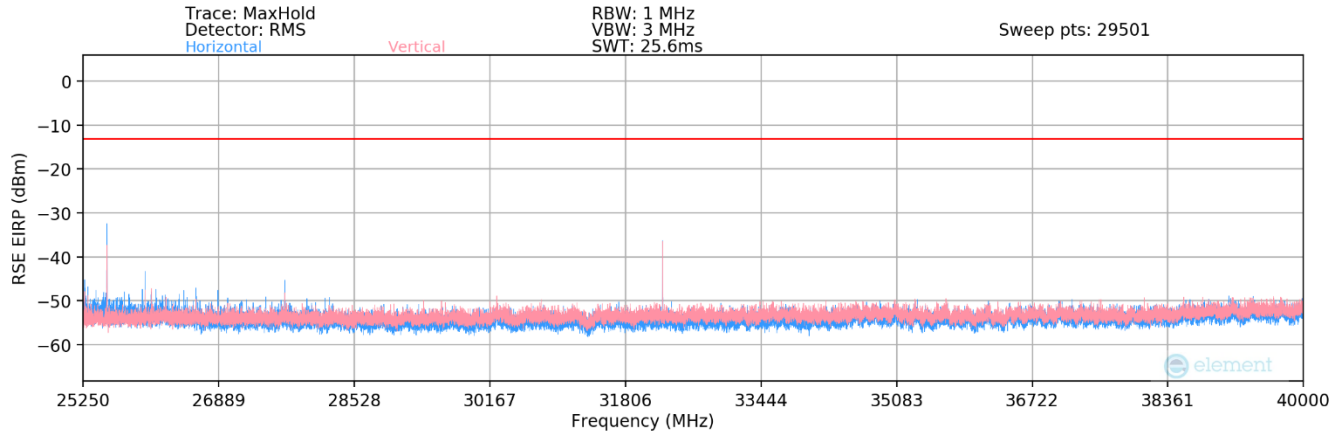


Plot 7-140. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _OPEN

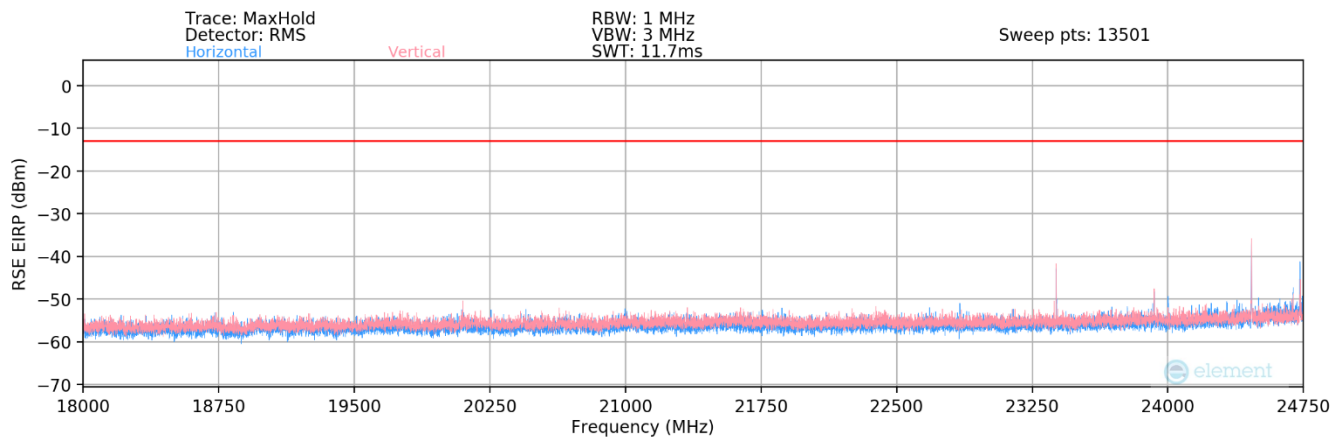


Plot 7-141. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _CLOSED

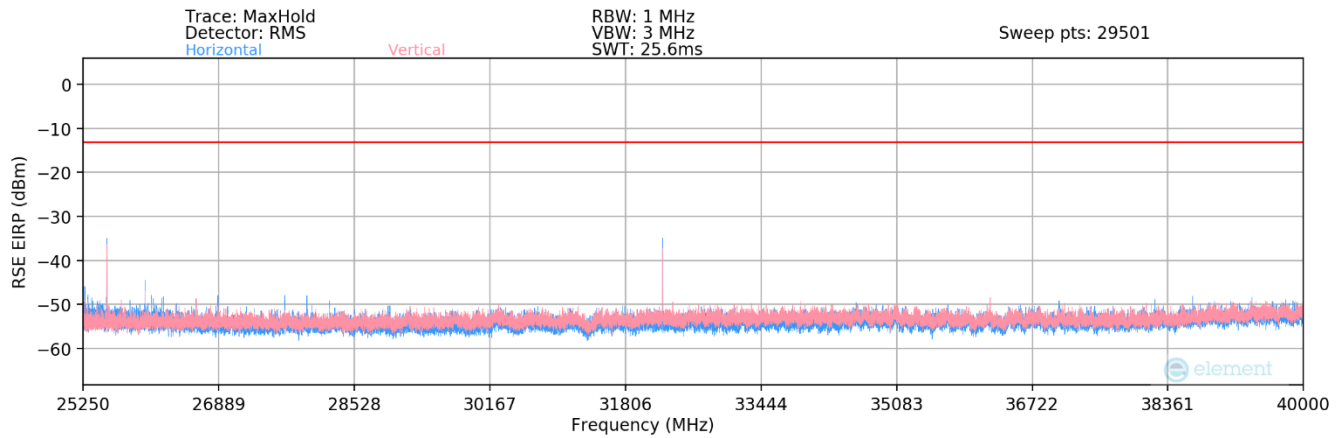
FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-142. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-143. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF



Plot 7-144. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

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Spurious Emissions EIRP Sample Calculation (n258-R2)

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]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
23010.70	Low	50	2Tx	QPSK	V	34	150	-46.94	-13.00	-33.94
24291.20	Low	50	2Tx	QPSK	H	21	150	-21.32	-13.00	-8.32
25344.00	Low	50	2Tx	QPSK	H	36	150	-34.29	-13.00	-21.29
27050.70	Low	50	2Tx	QPSK	H	66	150	-37.44	-13.00	-24.44
23383.00	Mid	50	2Tx	QPSK	V	44	150	-42.19	-13.00	-29.19
23925.00	Mid	50	2Tx	QPSK	H	298	150	-52.58	-13.00	-39.58
24463.00	Mid	50	2Tx	QPSK	H	64	150	-38.92	-13.00	-25.92
25537.50	Mid	50	2Tx	QPSK	H	68	150	-35.79	-13.00	-22.79
27310.00	Mid	50	2Tx	QPSK	H	68	150	-48.02	-13.00	-35.02
32255.60	Mid	50	2Tx	QPSK	H	339	150	-35.13	-13.00	-22.13
23772.20	High	50	2Tx	QPSK	V	315	150	-41.06	-13.00	-28.06
24662.30	High	50	2Tx	QPSK	H	64	150	-39.62	-13.00	-26.62
25788.80	High	50	2Tx	QPSK	H	66	150	-35.50	-13.00	-22.50
26914.85	High	50	2Tx	QPSK	H	66	150	-44.39	-13.00	-31.39

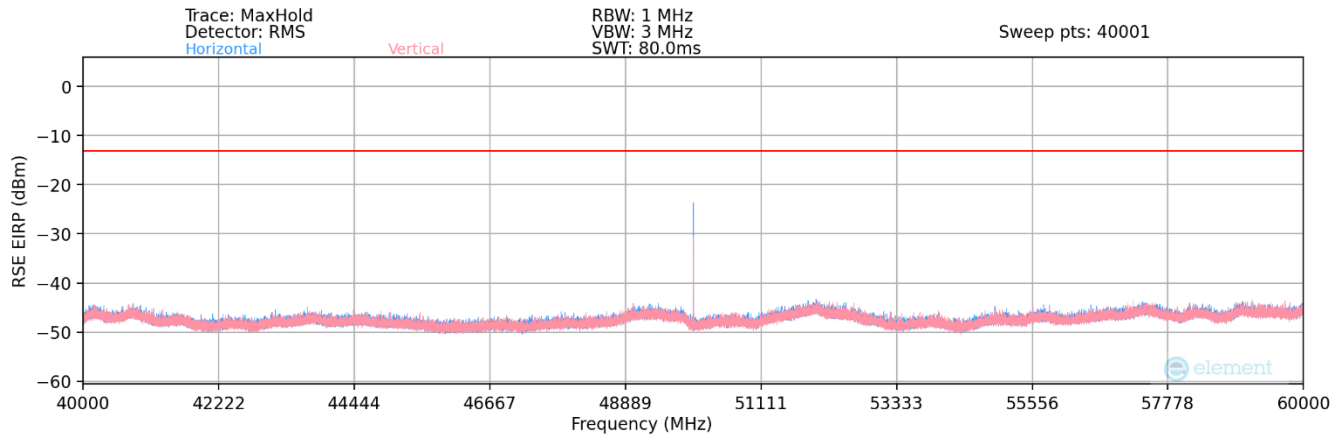
Table 7-61. Ant 1 - n258-R2 Radiated Spurious Emissions Table (18GHz - 40GHz)

Notes

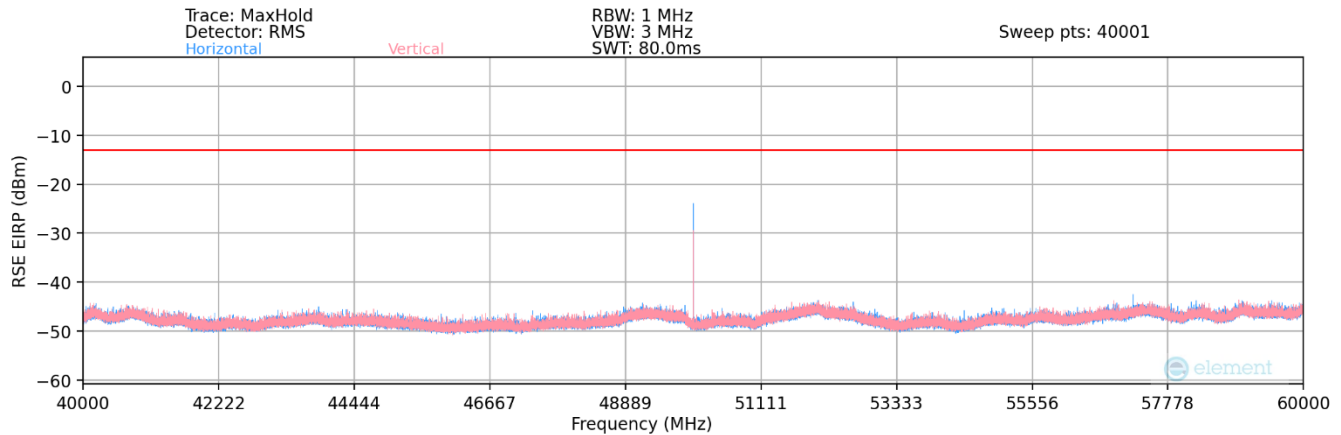
The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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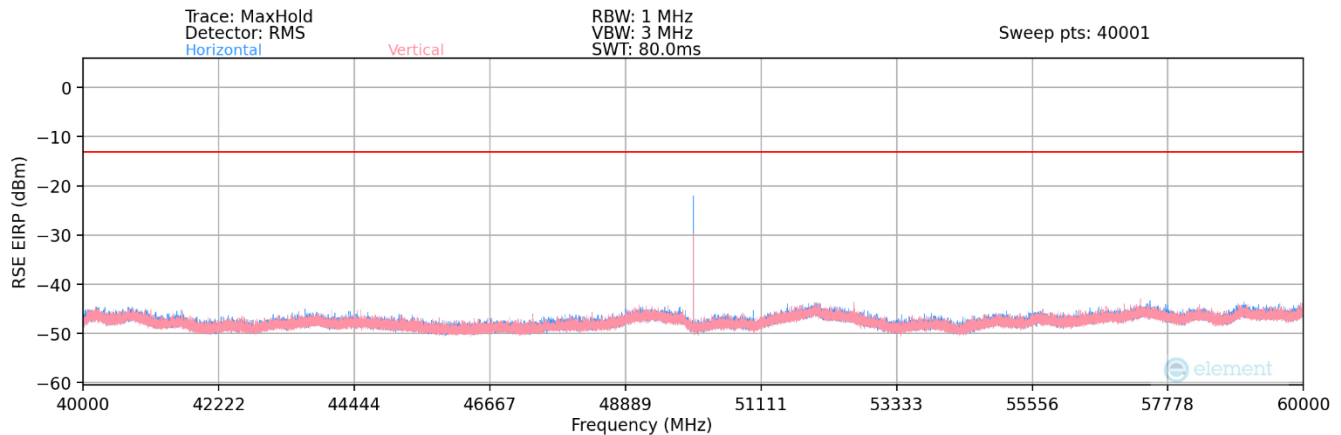
40GHz - 60GHz



Plot 7-145. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN



Plot 7-146. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-147. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

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Spurious Emissions EIRP Sample Calculation (n258-R2)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
49550.16	Low	50	2Tx	QPSK	H	307	77	-17.86	-13.00	-4.86
49999.92	Mid	50	2Tx	QPSK	H	307	79	-20.32	-13.00	-7.32
50449.92	High	50	2Tx	QPSK	H	310	77	-21.13	-13.00	-8.13

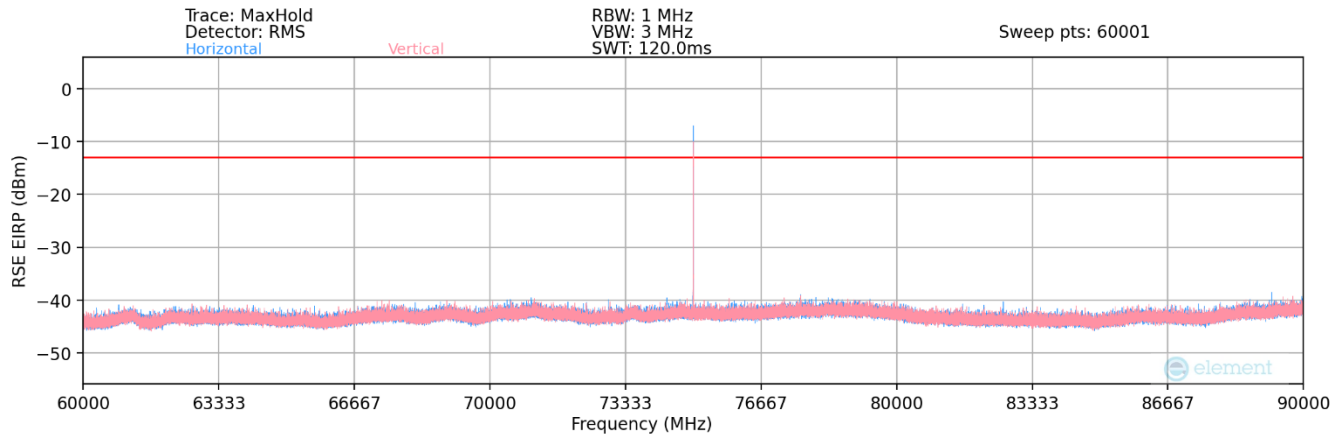
Table 7-62. Ant 1 - n258-R2 Radiated Spurious Emissions Table (40GHz - 60GHz)

Notes

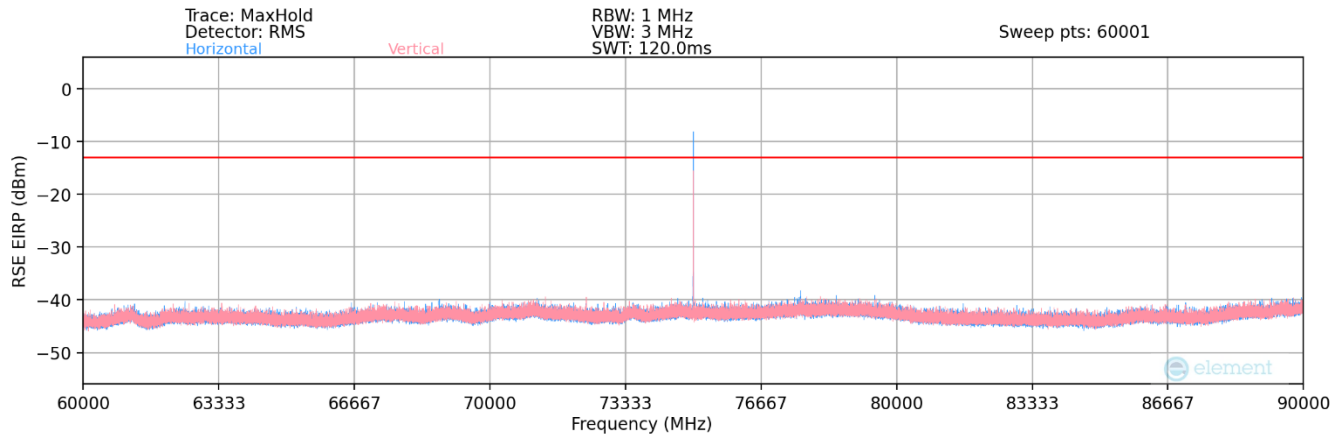
The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1.5 meter.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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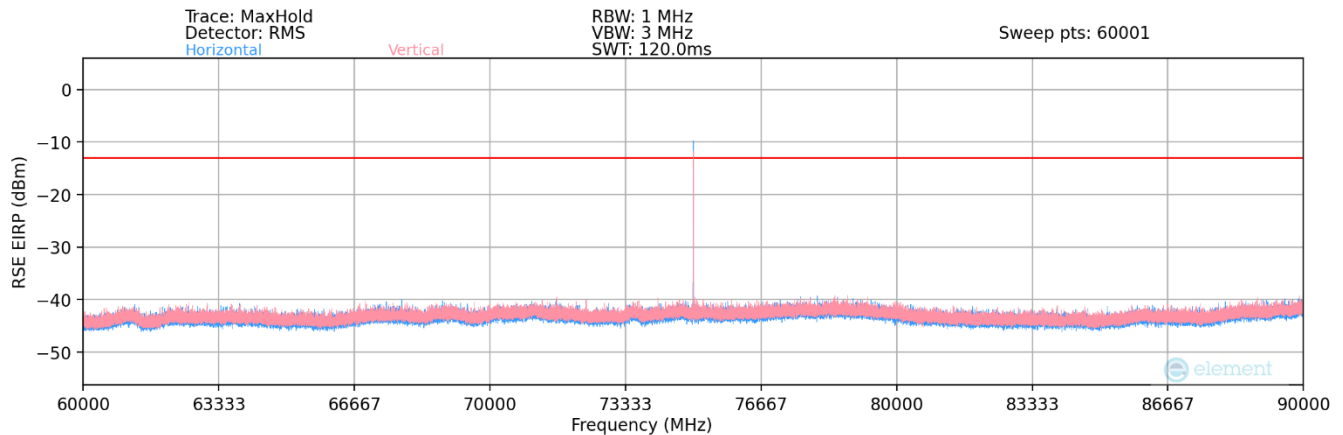
60GHz - 90GHz



Plot 7-148. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _OPEN



Plot 7-149. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _CLOSED



Plot 7-150. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) _HALF

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Spurious Emissions EIRP Sample Calculation (n258-R2)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74325.24	Low	50	2Tx	QPSK	H	*	*	-22.84	-13.00	-9.84
74999.88	Mid	50	2Tx	QPSK	H	*	*	-23.85	-13.00	-10.85
75674.88	High	50	2Tx	QPSK	H	*	*	-23.09	-13.00	-10.09

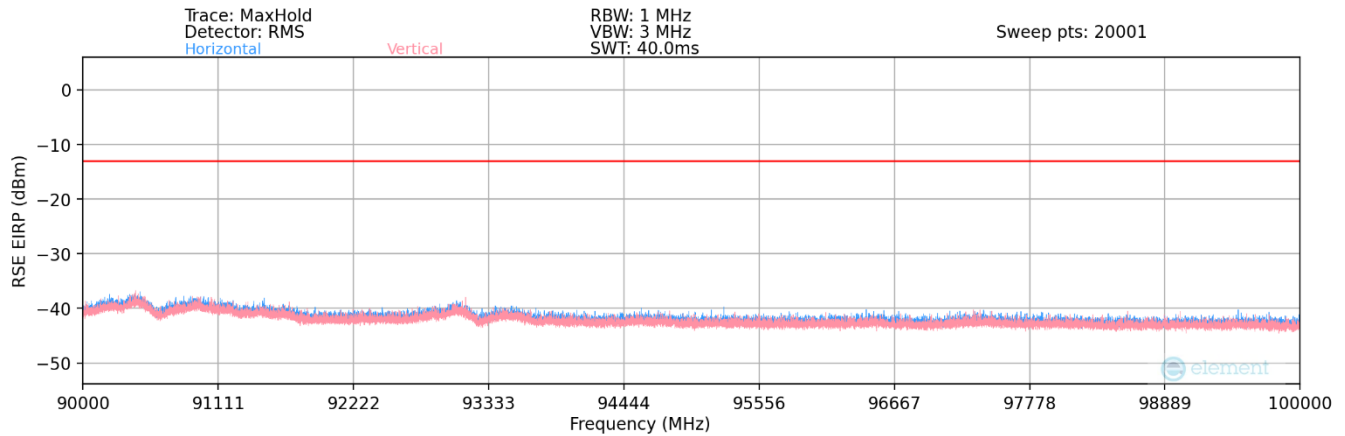
Table 7-63. Ant 1 - n258-R2 Radiated Spurious Emissions Table (60GHz - 90GHz)

Notes

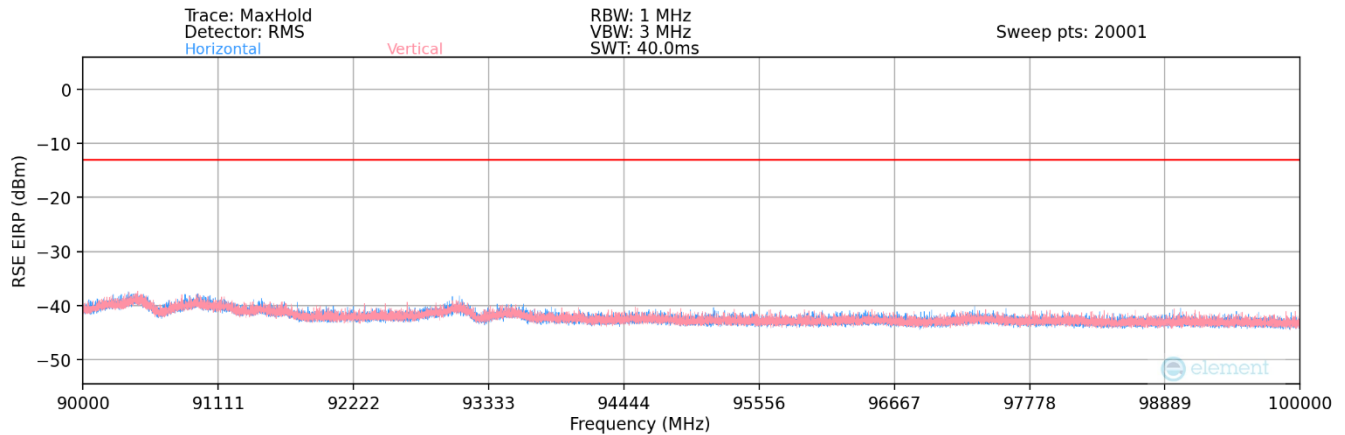
- 1) The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- 2) Rows marked with * indicate a spurious emission level that was measured using the Spherical Grid TRP Method per KDB 842590.

FCC ID: A3LSMF936U	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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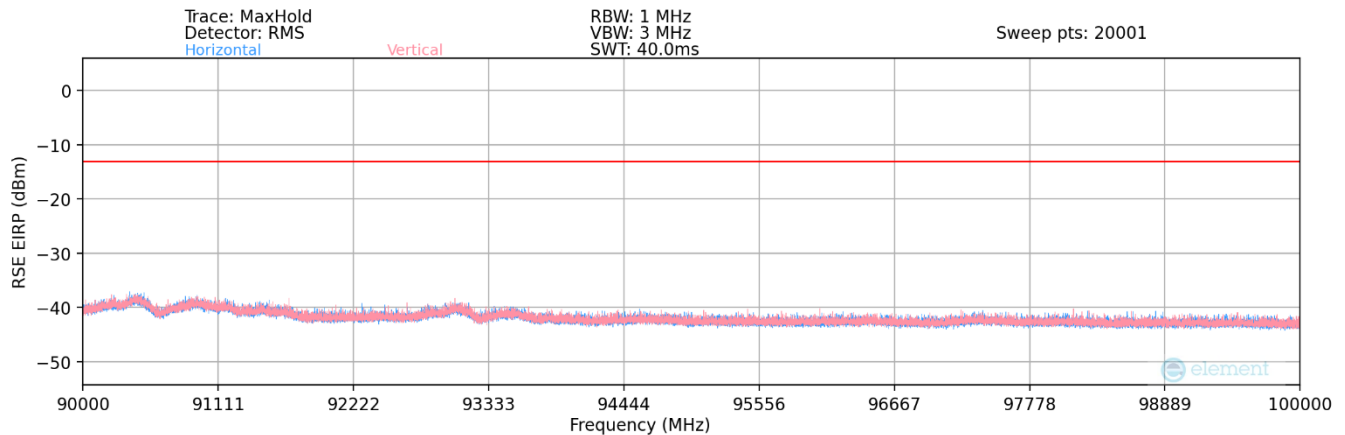
90GHz - 100GHz



Plot 7-151. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _OPEN



Plot 7-152. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _CLOSED



Plot 7-153. Ant 1 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2) _HALF

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Spurious Emissions EIRP Sample Calculation (n258-R2)

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]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Turntable Azimuth [degrees]	Positioner Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
94745.00	Low	50	2Tx	QPSK	H	-	-	-47.72	-13.00	-34.72
95351.98	Mid	50	2Tx	QPSK	H	-	-	-47.82	-13.00	-34.82
97316.88	High	50	2Tx	QPSK	H	-	-	-47.54	-13.00	-34.54

Table 7-64. Ant 1 - n258-R2 Radiated Spurious Emissions Table (90GHz - 100GHz)

Notes

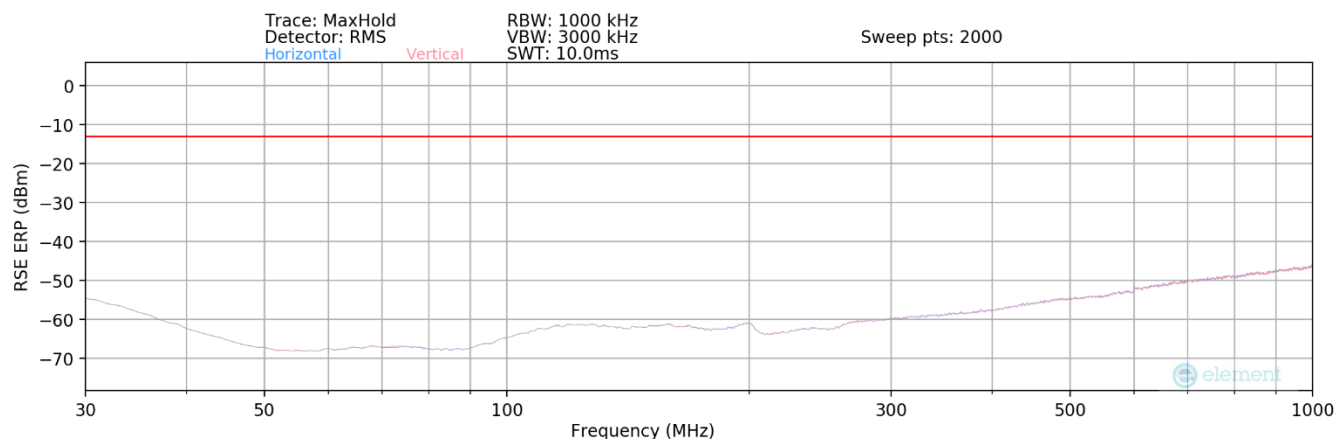
The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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Band n258-R2 – Ant 2

30MHz - 1GHz



Plot 7-154. Ant 2 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx – EN-DC Anchor Band 2)

Spurious Emissions ERP Sample Calculation (n258-R2)

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]	Turntable Azimuth [degrees]	Antenna Height [cm]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
221.00	Low	50	2Tx	QPSK	V	-	-	-61.21	-13.00	-48.21
381.00	Mid	50	2Tx	QPSK	V	-	-	-56.52	-13.00	-43.52
936.36	High	50	2Tx	QPSK	V	-	-	-45.95	-13.00	-32.95

Table 7-65. Ant 2 - n258-R2 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.

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