

- 4) The plots from 1-200GHz show corrected average EIRP levels. The average EIRP reported below is calculated per section 5.2.7 of ANSI C63.26-2015 which states:  $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$ ; where D is the measurement distance (in the far field region) in m. The field strength E is calculated  $E (dB\mu V/m) = \text{Spectrum Analyzer Level (dBm)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + \text{Harmonic Mixer Conversion Loss (dB)} + 107$ . All appropriate Antenna Factor and Cable Loss have been applied in the spectrum analyzer for each measurement. For measurements > 40GHz, Harmonic Mixer Conversion Loss was also applied to the spectrum analyzer.
- 5) Emissions below 18GHz were measured at a 3 meter test distance, while emissions above 18GHz were measured at the appropriate far field distance. The far field of the mmWave signal is based on formula:  $R > 2D^2/\text{wavelength}$ , where D is the larger between the dimension of the measurement antenna and the transmitting antenna of the EUT. In this case, D is the largest dimension of the measurement antenna.

Frequency Range (GHz)	Wavelength(cm)	Far Field Distance (m)	Measurement Distance (m)
18-40	0.749	0.54	1.00
40-60	0.500	1.39	1.50
60-90	0.333	0.91	1.00
90-140	0.214	0.58	1.00
140-200	0.150	0.39	1.00

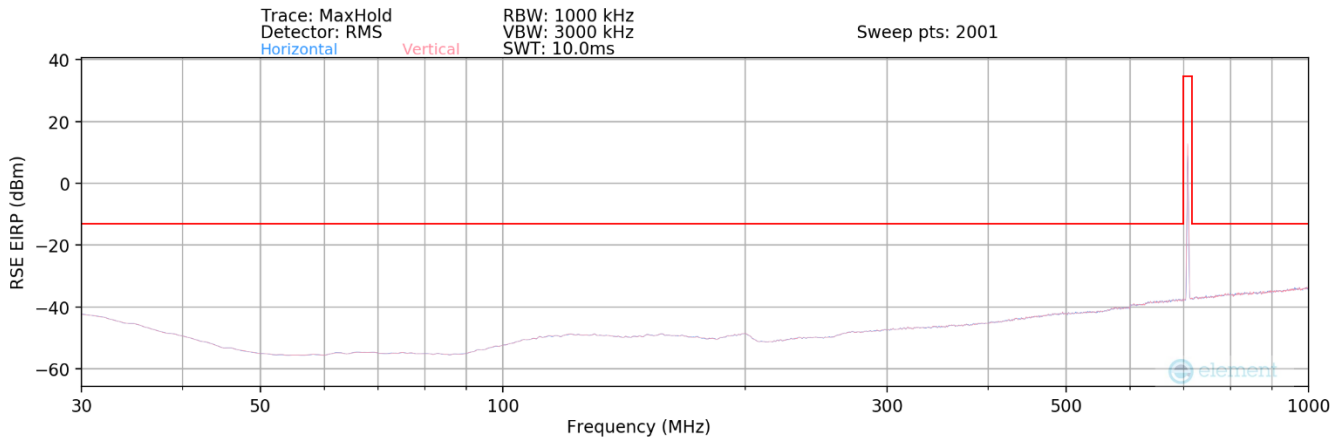
**Table 7-22. Far-Field Distance & Measurement Distance per Frequency Range**

- 6) All emissions from 30MHz - 40GHz were measured using a spectrum analyzer with an internal preamplifier. Emissions >40GHz were measured using a harmonic mixer with the spectrum analyzer.
- 7) All RSE's were measured with 1CC. It was determined that adding more CC's causes the overall amplitude of just 1CC to decrease, therefore, 1CC is the worst case for the purposes of spurious emissions measurements.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) All RSE's were investigated in EN-DC mode and with 802.11 chipset active. It was determined that there is no new emission introduced by EN-DC mode, or the 802.11 chipset. For EN-DC mode, n261 uses LTE B2, B5, B12, B13, B48 and B66, n260 uses LTE B2, B14, B5, B12, B13, B30, B48 and B66 and n258 uses LTE B2, B5, B12, B71, and B66.
- 10) Additionally, this device supports anchor bands operating in FR1 spectrum. The n261 band uses NR Bands n2, n5, n25, n41, n48, n66, and n77. The n260 band uses NR Bands n2, n5, n12, n25, n30, n41, n48, n66, and n77. The n258 band uses NR Bands NR n2, n12, n25, n41, n66, and n77 as anchor bands.
- 11) LTE and FR1 anchor bands supports default configuration and Tx hopping configuration. Both configurations were investigated. There was no discernible difference in the spurious emission levels when using different LTE and NR FR1 anchor bands. Thus, LTE Band 12 was used as a representative anchor band for EN-DC and NR-DC investigations.

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## Band n258-R1 – Ant 1

### 30MHz - 1GHz



**Plot 7-109.n258-R1 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### 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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
588.00	Low	50	2Tx	QPSK	V	-	-	-51.29	-13.00	-38.29
598.00	Mid	50	2Tx	QPSK	V	-	-	-51.14	-13.00	-38.14
610.00	High	50	2Tx	QPSK	V	-	-	-51.55	-13.00	-38.55

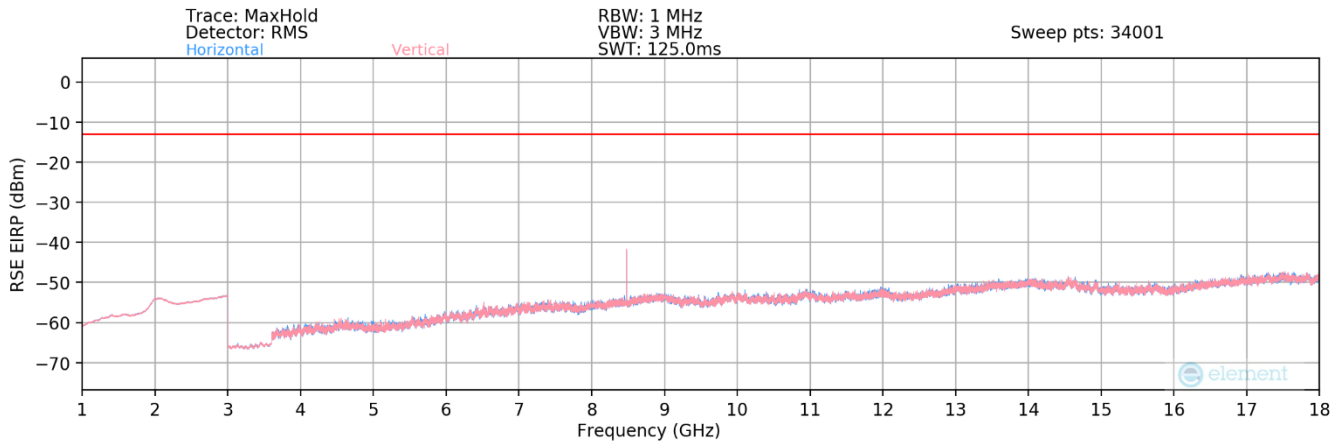
**Table 7-23.n258-R1 Radiated Spurious Emissions Table (30MHz - 1GHz)**

### 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 7-110.n258-R1 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

## 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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
17907.54	Low	50	2Tx	QPSK	V	-	-	-53.29	-13.00	-40.29
8479.00	Mid	50	2Tx	QPSK	V	238	19	-42.46	-13.00	-29.46
17982.54	Mid	50	2Tx	QPSK	V	-	-	-52.92	-13.00	-39.92
17991.00	High	50	2Tx	QPSK	V	-	-	-52.49	-13.00	-39.49

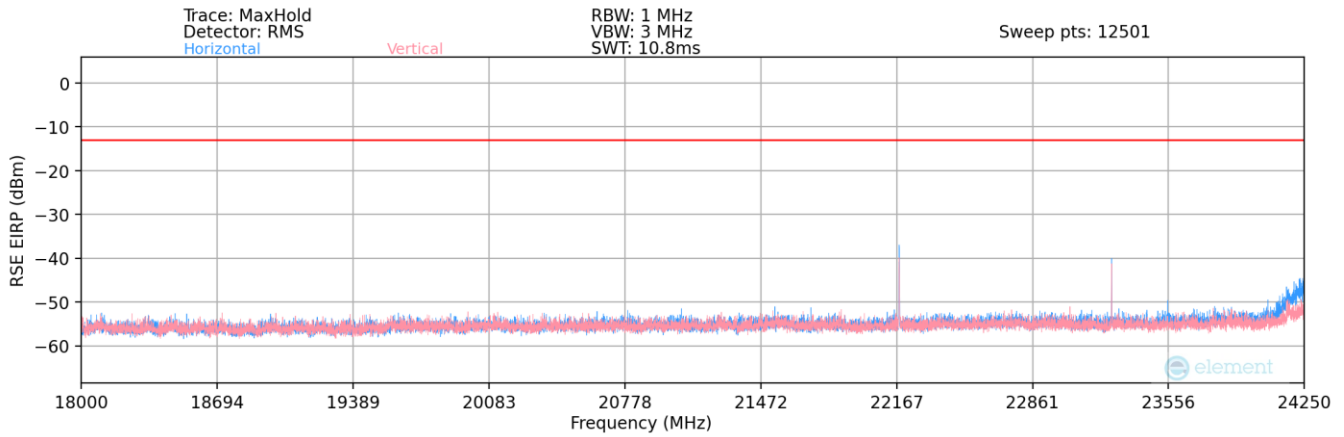
**Table 7-24.n258-R1 Radiated Spurious Emissions Table (1GHz - 18GHz)**

## 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 test distance of 3 meter.

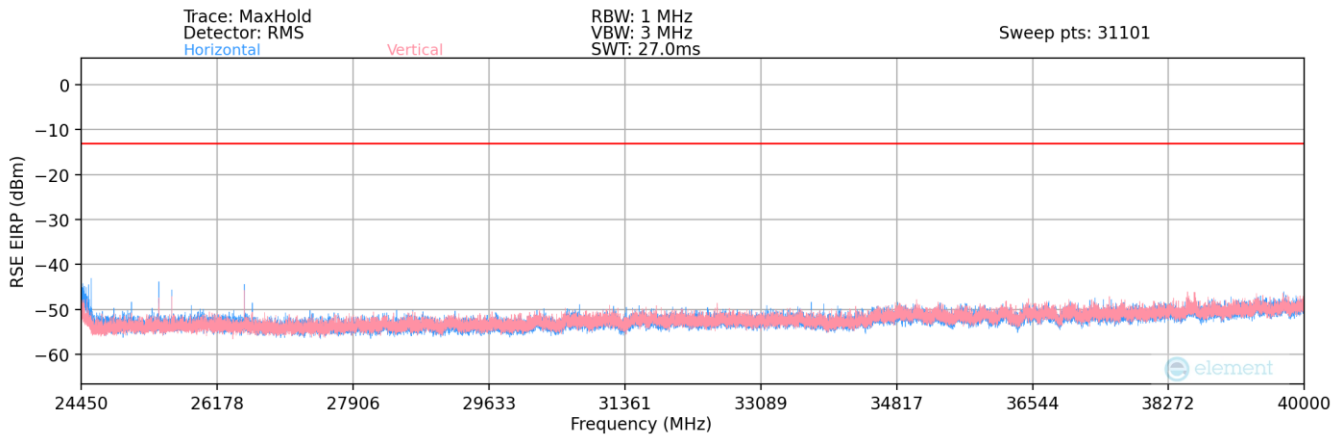
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## 18GHz-24.25GHz



Plot 7-111. n258-R1 Radiated Spurious Plot

## 24.45GHz-40GHz



Plot 7-112.n258-R1 Radiated Spurious Plot

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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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
22406.25	Low	50	2Tx	QPSK	H	150	296	-39.05	-13.00	-26.05
23340.00	Low	50	2Tx	QPSK	H	150	281	-41.37	-13.00	-28.37
22179.00	Mid	50	2Tx	QPSK	H	150	296	-39.20	-13.00	-26.20
23265.50	Mid	50	2Tx	QPSK	H	150	291	-42.25	-13.00	-29.25
26521.00	Mid	50	2Tx	QPSK	H	150	41	-45.96	-13.00	-32.96
23190.00	High	50	2Tx	QPSK	H	150	335	-43.34	-13.00	-30.34
24522.00	High	50	2Tx	QPSK	H	150	334	-39.04	-13.00	-26.04

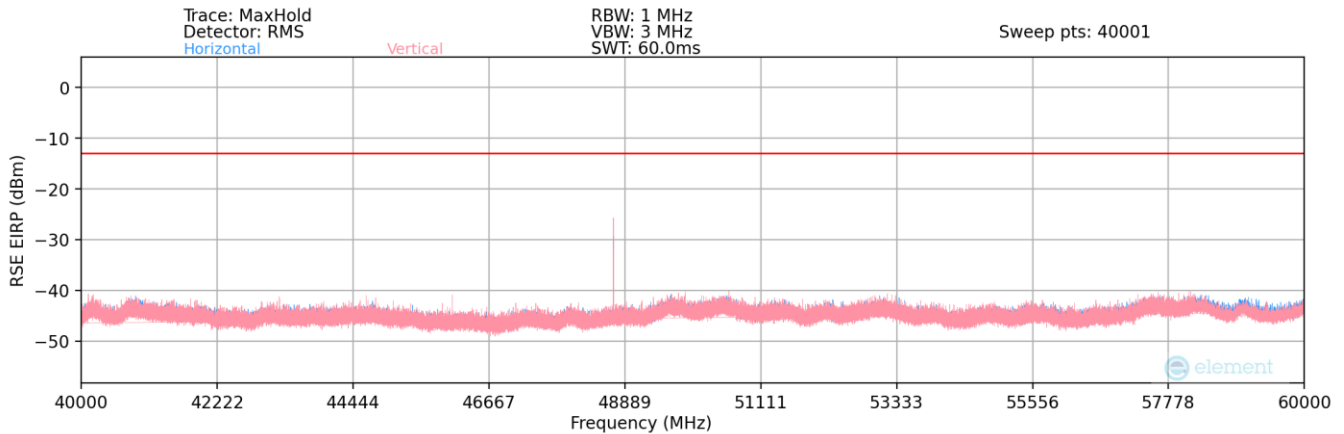
**Table 7-25.n258-R1 Radiated Spurious Emissions Table (18GHz - 40GHz)**

### 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 test distance of 1 meter.

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## 40GHz - 60GHz



Plot 7-113.n258-R1 Radiated Spurious Plot

### 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.

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

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
48549.84	Low	50	2Tx	QPSK	V	282	90	-29.12	-13.00	-16.12
48701.00	Mid	50	2Tx	QPSK	V	300	93	-27.79	-13.00	-14.79
48849.54	High	50	2Tx	QPSK	V	283	92	-28.17	-13.00	-15.17

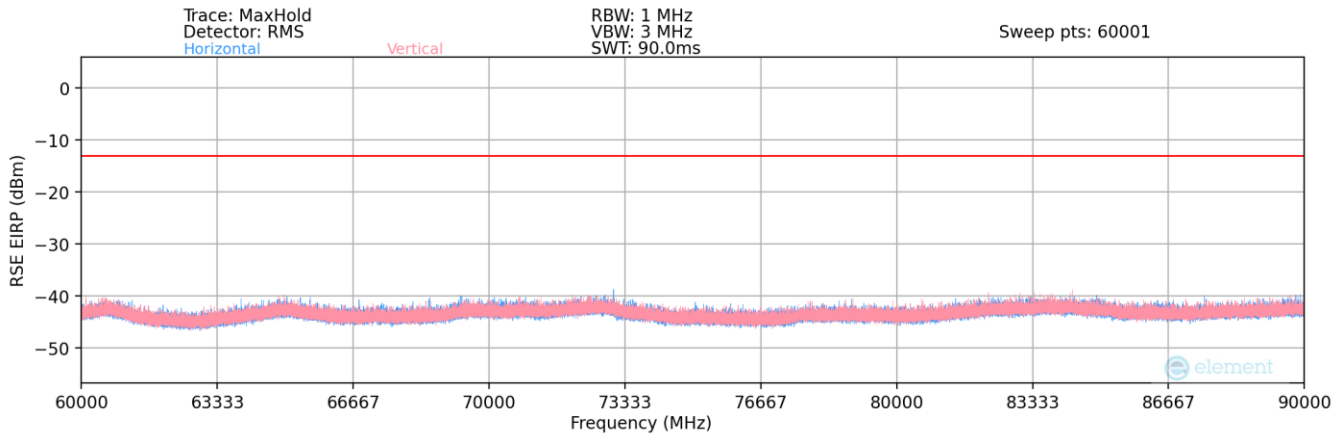
Table 7-26.n258-R1 Radiated Spurious Emissions Table (40GHz - 60GHz)

### 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.

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## 60GHz - 90GHz



**Plot 7-114.n258-R1 Radiated Spurious Plot**

### 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.

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

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]
72827.10	Low	50	2Tx	QPSK	H	91	308	-39.18	-13.00	-26.18
73052.53	Mid	50	2Tx	QPSK	H	91	308	-39.29	-13.00	-26.29
73276.70	High	50	2Tx	QPSK	H	91	316	-39.53	-13.00	-26.53

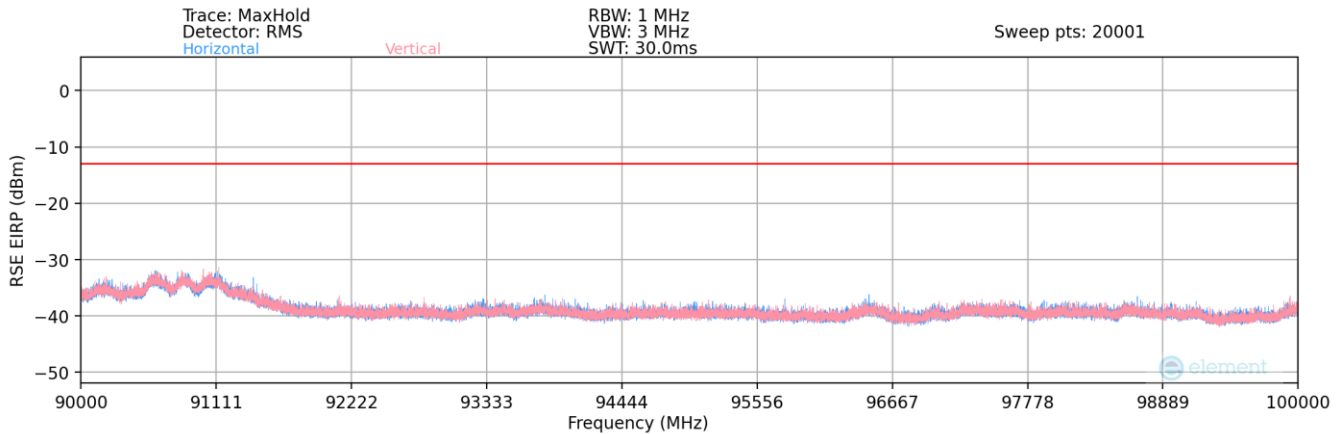
**Table 7-27.n258-R1 Radiated Spurious Emissions Table (60GHz - 90GHz)**

### 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 - 100GHz



**Plot 7-115.n258-R1 Radiated Spurious Plot**

### 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.

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

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]
97102.76	Low	50	2Tx	QPSK	V	325	105	-38.36	-13.00	-25.36
97402.65	Mid	50	2Tx	QPSK	V	329	91	-43.22	-13.00	-30.22
97702.61	High	50	2Tx	QPSK	V	323	107	-40.35	-13.00	-27.35

**Table 7-28.n258-R1 Radiated Spurious Emissions table (90GHz-100GHz)**

#### Notes

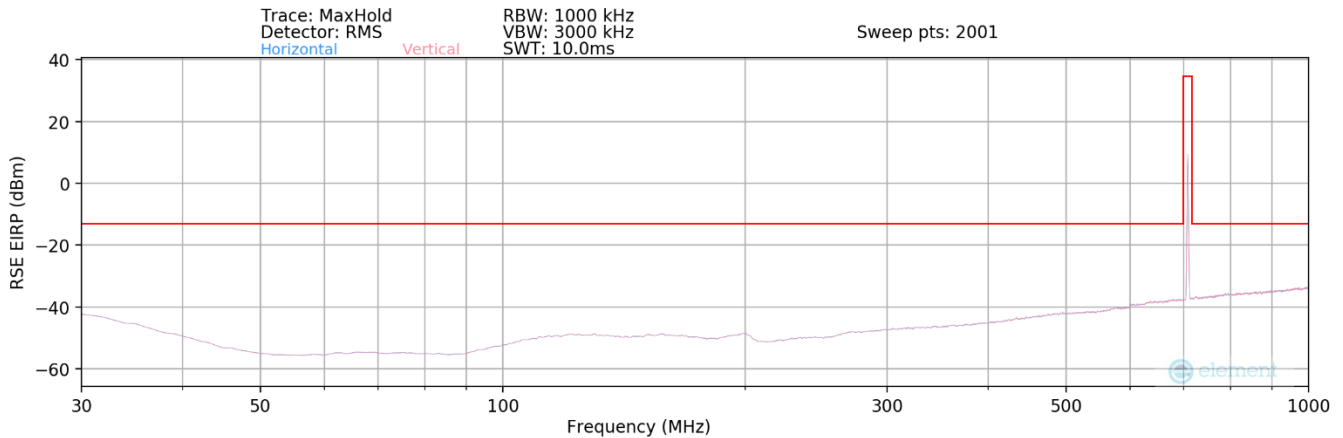
The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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## Band n258-R1 – Ant 2

### 30MHz - 1GHz



**Plot 7-116.n258-R1 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### 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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
445.00	Low	50	2Tx	QPSK	V	-	-	-53.79	-13.00	-40.79
458.00	Mid	50	2Tx	QPSK	V	-	-	-53.14	-13.00	-40.14
468.00	High	50	2Tx	QPSK	V	-	-	-53.11	-13.00	-40.11

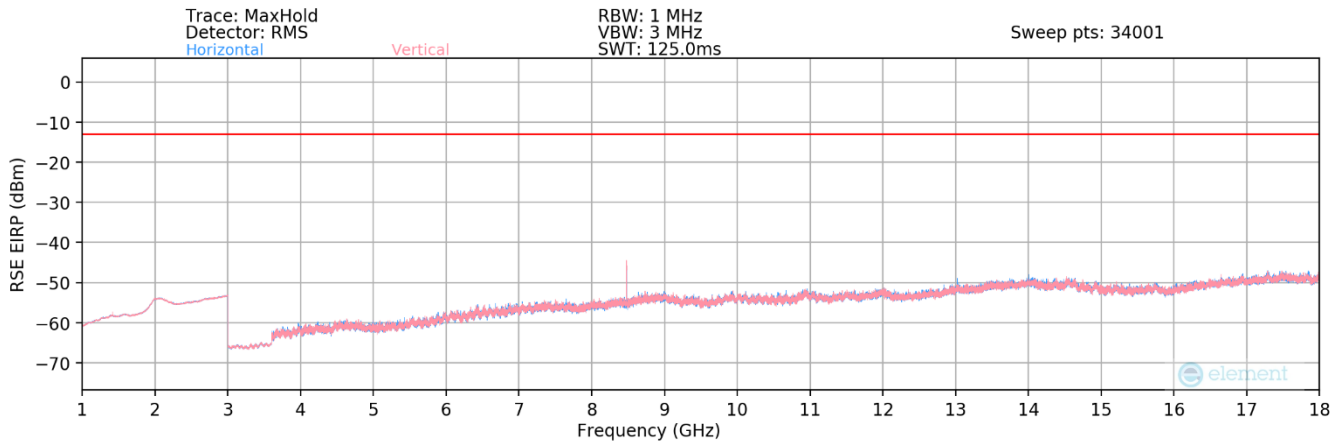
**Table 7-29.n258-R1 Radiated Spurious Emissions Table (30MHz - 1GHz)**

### 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.n258-R1 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

## 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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8403.50	Low	50	2Tx	QPSK	V	114	138	-43.43	-13.00	-30.43
8478.50	Mid	50	2Tx	QPSK	V	110	134	-42.16	-13.00	-29.16
8553.64	High	50	2Tx	QPSK	V	110	113	-39.91	-13.00	-26.91

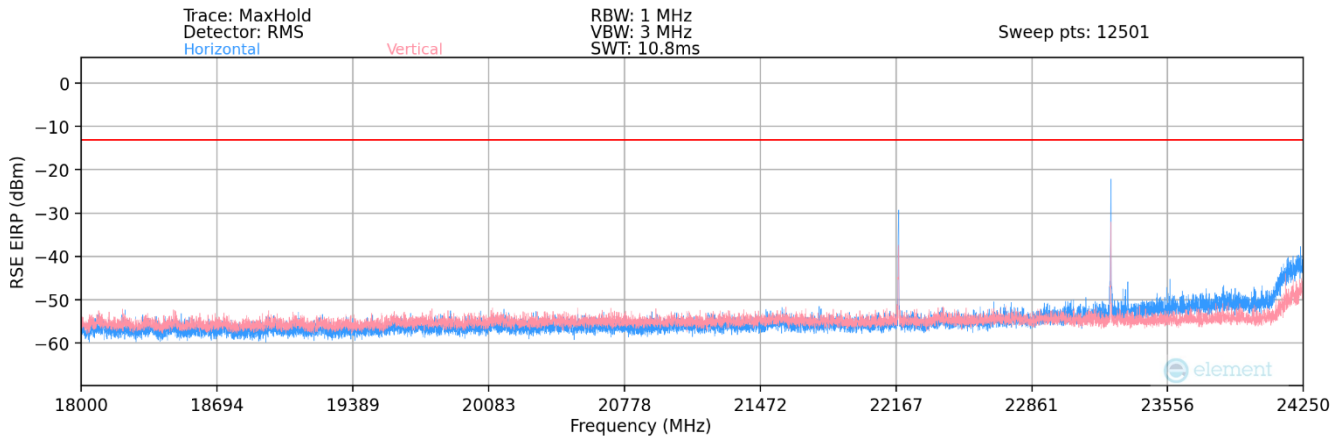
**Table 7-30.n258-R1 Radiated Spurious Emissions Table (1GHz - 18GHz)**

### 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 test distance of 3 meter.

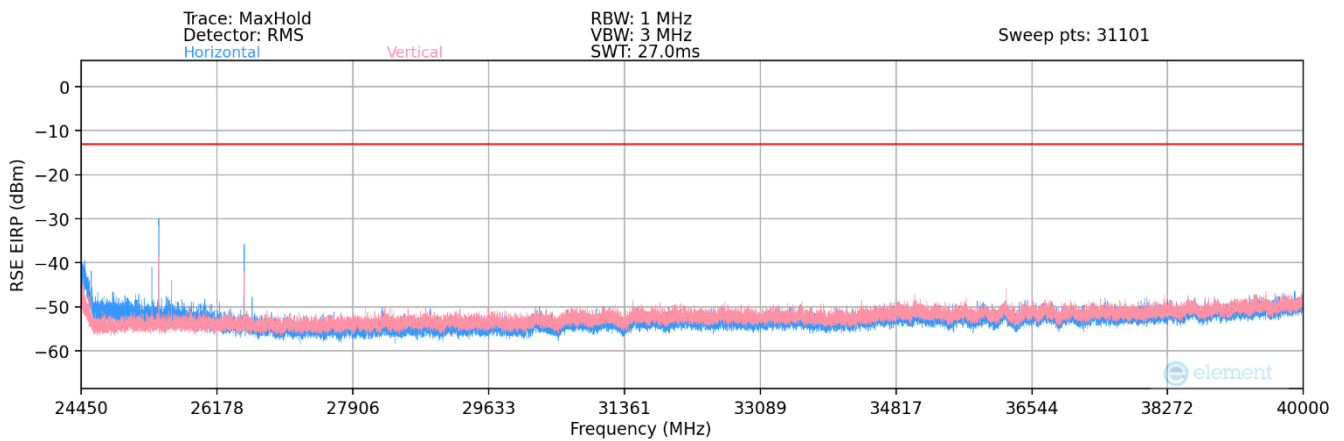
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### 18GHz-24.25GHz



**Plot 7-118. n258-R1 Radiated Spurious Plot**

### 24.45GHz-40GHz



**Plot 7-119.n258-R1 Radiated Spurious Plot**

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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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
22403.00	Low	50	2Tx	QPSK	H	150	355	-34.01	-13.00	-21.01
23340.00	Low	50	2Tx	QPSK	H	150	345	-26.01	-13.00	-13.01
22179.00	Mid	50	2Tx	QPSK	H	150	26	-32.09	-13.00	-19.09
23265.50	Mid	50	2Tx	QPSK	H	150	14	-26.69	-13.00	-13.69
25349.00	Mid	50	2Tx	QPSK	H	150	25	-46.64	-13.00	-33.64
26521.00	Mid	50	2Tx	QPSK	H	150	39	-43.91	-13.00	-30.91
21954.50	High	50	2Tx	QPSK	H	150	40	-29.90	-13.00	-16.90
23190.00	High	50	2Tx	QPSK	H	150	41	-32.48	-13.00	-19.48
25660.00	High	50	2Tx	QPSK	H	150	46	-41.28	-13.00	-28.28

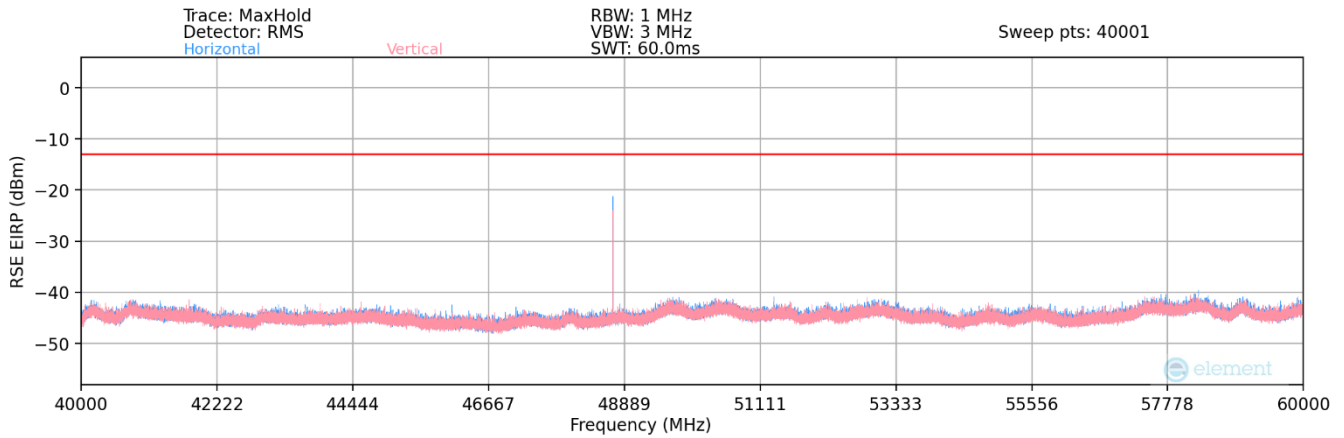
**Table 7-31.n258-R1 Radiated Spurious Emissions Table (18GHz - 40GHz)**

### 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 test distance of 1 meter.

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## 40GHz - 60GHz



Plot 7-120.n258-R1 Radiated Spurious Plot

### 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.

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

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
48550.94	Low	50	2Tx	QPSK	H	110	181	-23.77	-13.00	-10.77
48701.00	Mid	50	2Tx	QPSK	H	98	179	-22.93	-13.00	-9.93
48851.64	High	50	2Tx	QPSK	H	106	188	-23.92	-13.00	-10.92

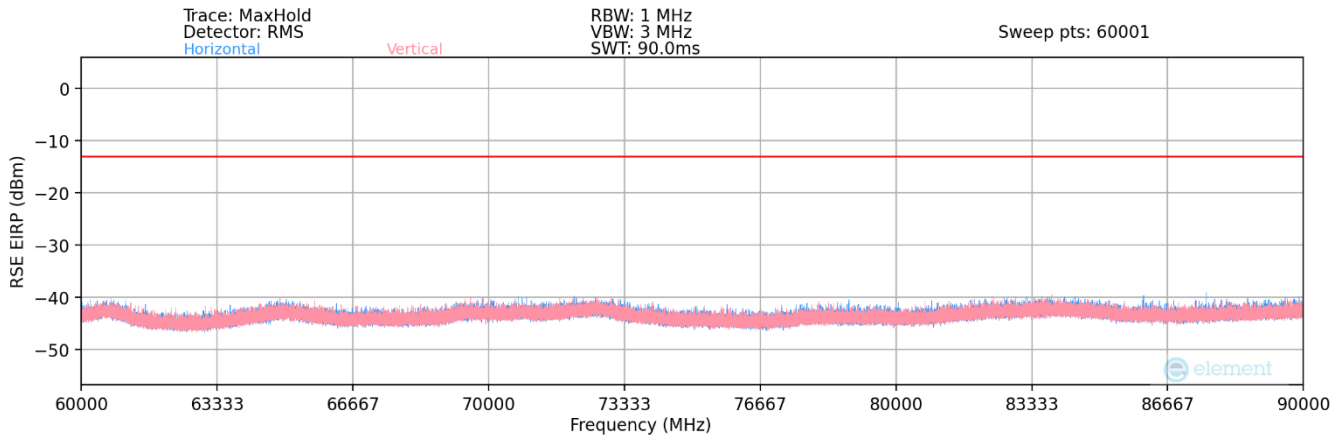
Table 7-32.n258-R1 Radiated Spurious Emissions Table (40GHz - 60GHz)

### 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.

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## 60GHz - 90GHz



Plot 7-121.n258-R1 Radiated Spurious Plot

### 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.

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

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]
72826.80	Low	50	2Tx	QPSK	H	265	148	-44.07	-13.00	-31.07
73052.37	Mid	50	2Tx	QPSK	H	257	150	-44.87	-13.00	-31.87
73276.70	High	50	2Tx	QPSK	H	279	151	-42.49	-13.00	-29.49

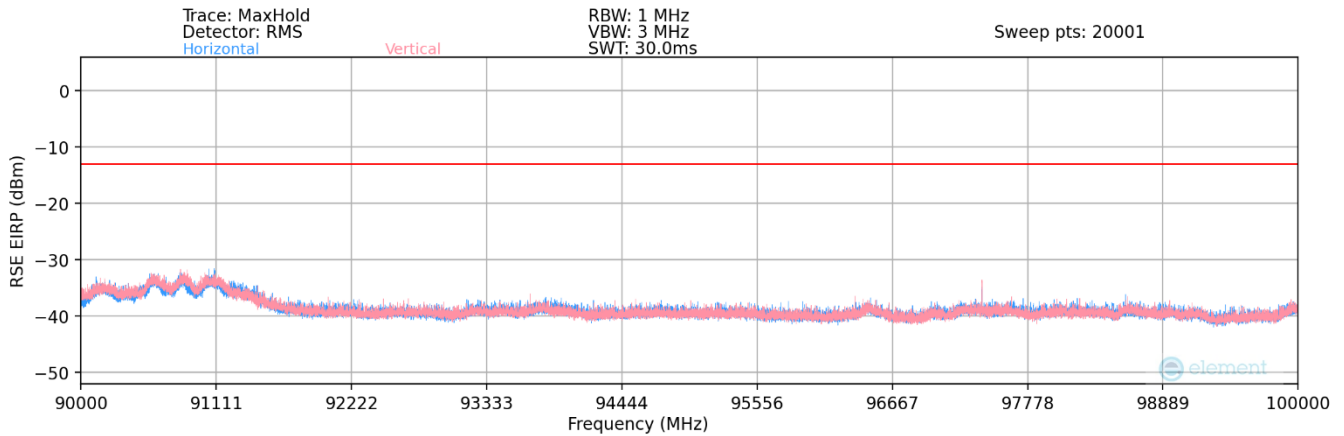
Table 7-33.n258-R1 Radiated Spurious Emissions Table (60GHz - 90GHz)

### 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 - 100GHz



**Plot 7-122.n258-R1 Radiated Spurious Plot**

### 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.

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

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]
97102.76	Low	50	2Tx	QPSK	V	9	179	-35.83	-13.00	-22.83
97402.86	Mid	50	2Tx	QPSK	V	355	180	-35.30	-13.00	-22.30
97702.45	High	50	2Tx	QPSK	V	359	180	-35.39	-13.00	-22.39

**Table 7-34.n258-R1 Radiated Spurious Emissions table (90GHz-100GHz)**

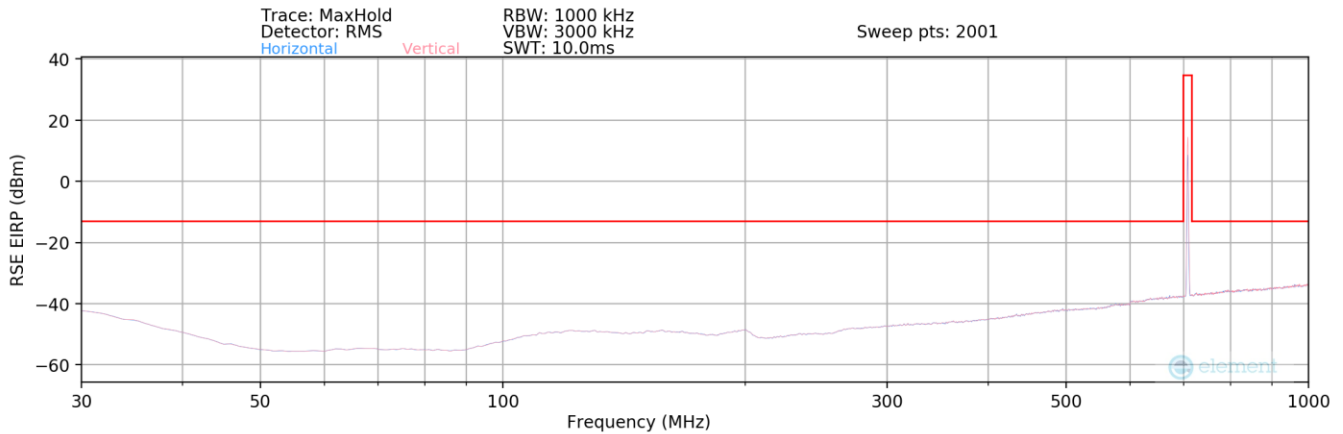
#### Notes

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.

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## Band n258-R2- Ant 1

### 30MHz - 1GHz



Plot 7-123.n258-R2 Radiated Spurious Plot – EN-DC Anchor LTE Band 12

### 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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
392.00	Low	50	2Tx	QPSK	H	-	-	-55.42	-13.00	-42.42
412.00	Mid	50	2Tx	QPSK	H	-	-	-54.65	-13.00	-41.65
436.00	High	50	2Tx	QPSK	H	-	-	-54.06	-13.00	-41.06

Table 7-35.n258-R2 Radiated Spurious Emissions Table (30MHz - 1GHz)

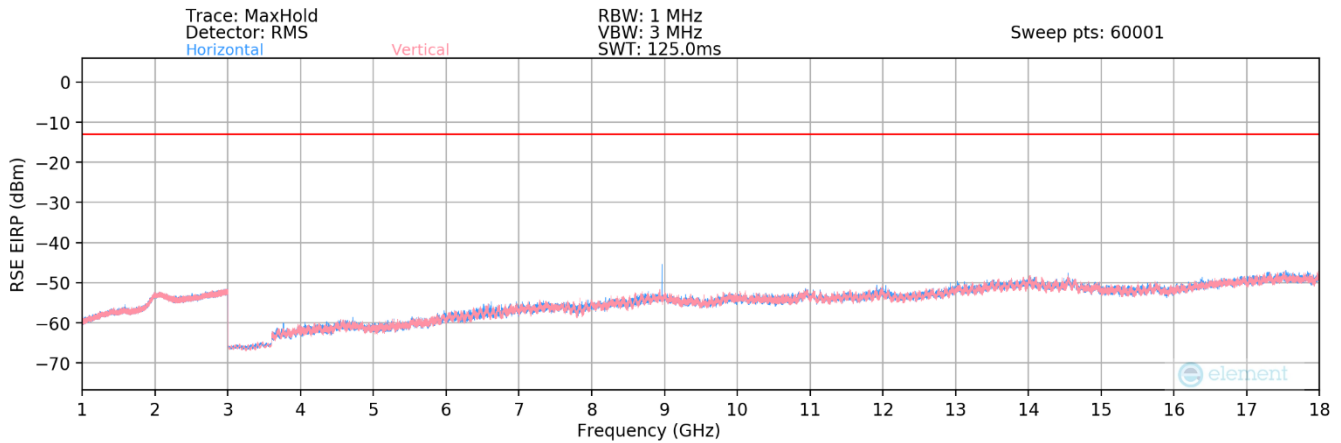
### Notes

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 7-124.n258-R2 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

## 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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8904.10	Low	50	2Tx	QPSK	H	122	350	-43.33	-13.00	-30.33
8965.00	Mid	50	2Tx	QPSK	H	112	354	-42.79	-13.00	-29.79
9098.21	High	50	2Tx	QPSK	H	119	349	-47.81	-13.00	-34.81

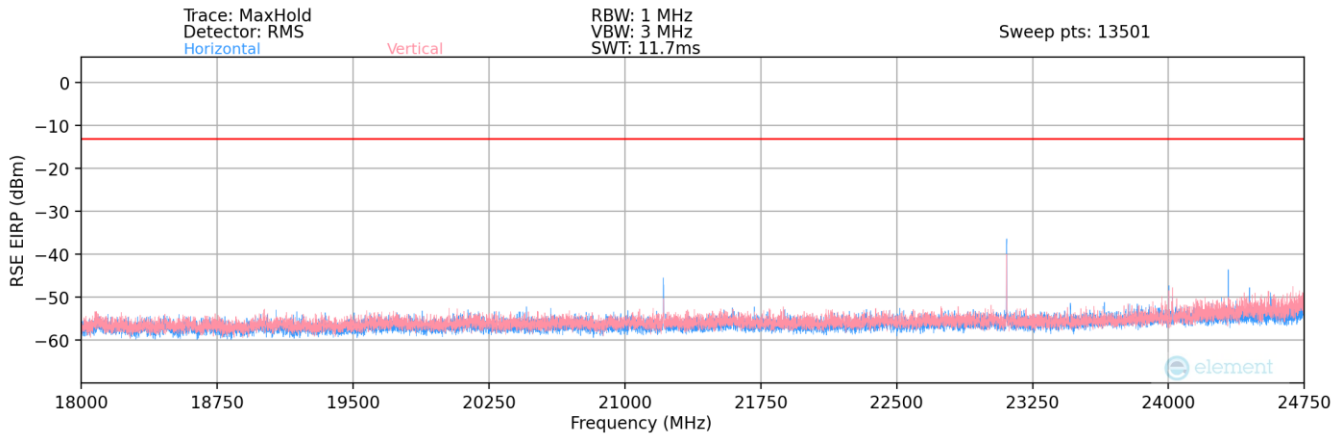
**Table 7-36.n258-R2 Radiated Spurious Emissions Table (1GHz - 18GHz)**

### 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.

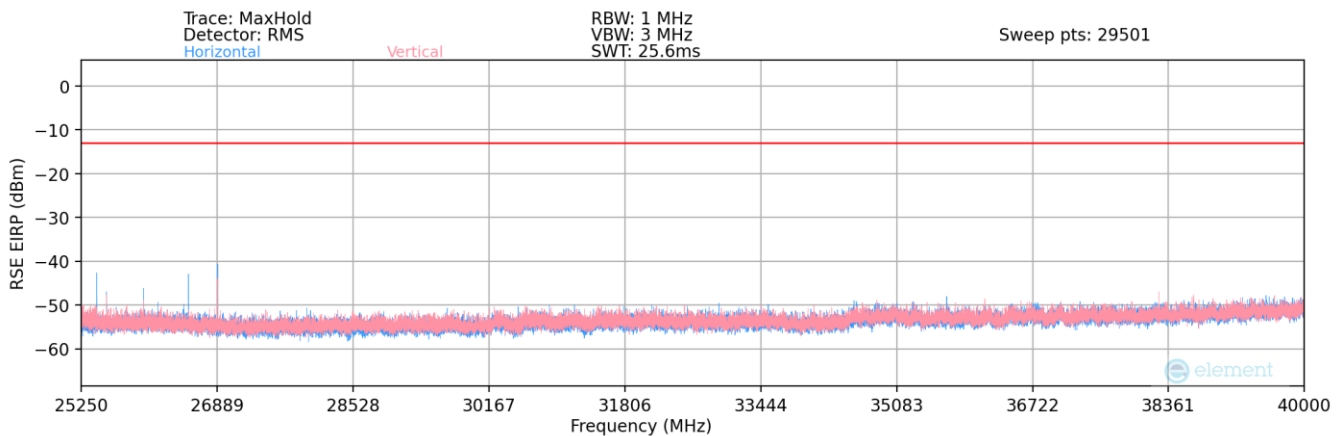
FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 18GHz-24.75GHz



Plot 7-125.n258-R2 Radiated Spurious Plot

## 25.25GHz-40GHz



Plot 7-126.n258-R2 Radiated Spurious Plot

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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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
22840.00	Low	50	2Tx	QPSK	H	150	279	-40.25	-13.00	-27.25
26711.25	Low	50	2Tx	QPSK	H	150	265	-46.80	-13.00	-33.80
23107.00	Mid	50	2Tx	QPSK	H	150	276	-36.33	-13.00	-23.33
25436.00	Mid	50	2Tx	QPSK	H	150	327	-48.02	-13.00	-35.02
26893.50	Mid	50	2Tx	QPSK	H	150	9	-44.54	-13.00	-31.54
23158.00	High	50	2Tx	QPSK	H	150	43	-39.00	-13.00	-26.00
27292.20	High	50	2Tx	QPSK	H	150	40	-45.97	-13.00	-32.97

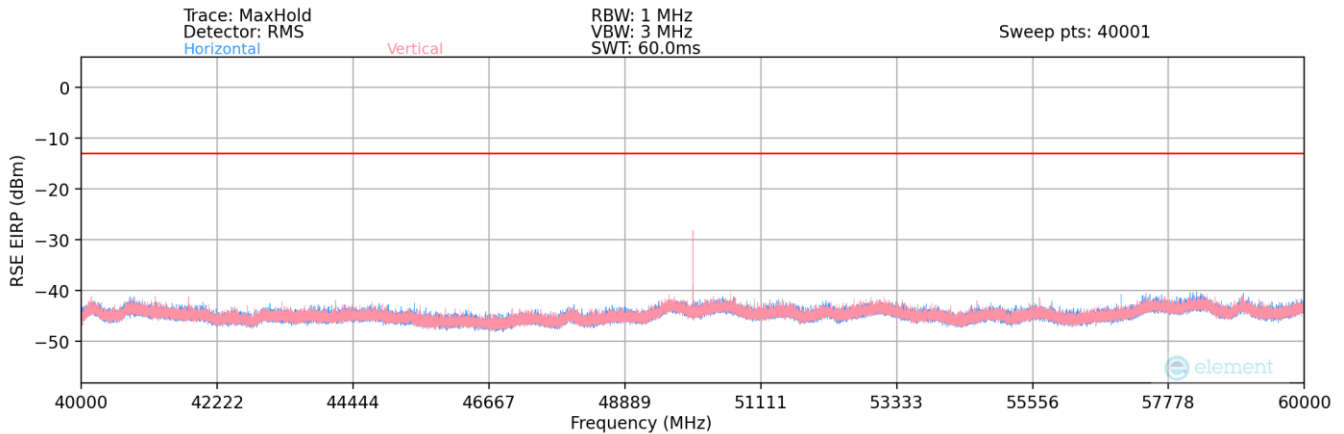
**Table 7-37.n258-R2 Radiated Spurious Emissions Table (18GHz - 40GHz)**

### 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 test distance of 1 meter.

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## 40GHz - 60GHz



Plot 7-127.n258-R2 Radiated Spurious Plot

### 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.

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

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
49550.40	Low	50	2Tx	QPSK	V	351	81	-32.08	-13.00	-19.08
50000.00	Mid	50	2Tx	QPSK	V	312	89	-29.66	-13.00	-16.66
50449.50	High	50	2Tx	QPSK	V	351	84	-30.17	-13.00	-17.17

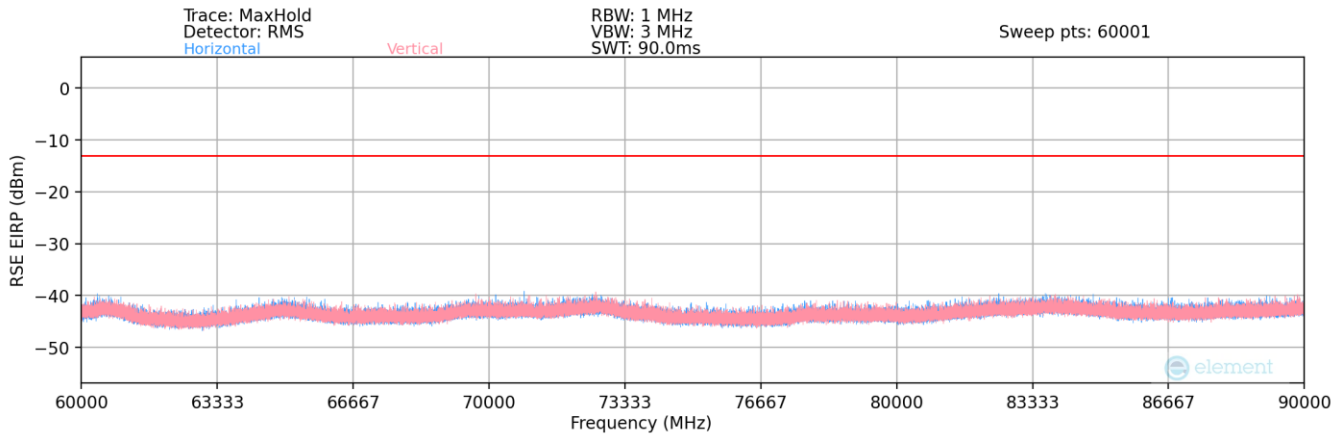
Table 7-38.n258-R2 Radiated Spurious Emissions Table (40GHz - 60GHz)

### 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.

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## 60GHz - 90GHz



Plot 7-128.n258-R2 Radiated Spurious Plot

### 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.

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

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]
74327.22	Low	50	2Tx	QPSK	V	350	96	-44.97	-13.00	-31.97
75001.86	Mid	50	2Tx	QPSK	V	2	94	-46.91	-13.00	-33.91
75676.44	High	50	2Tx	QPSK	V	5	93	-47.79	-13.00	-34.79

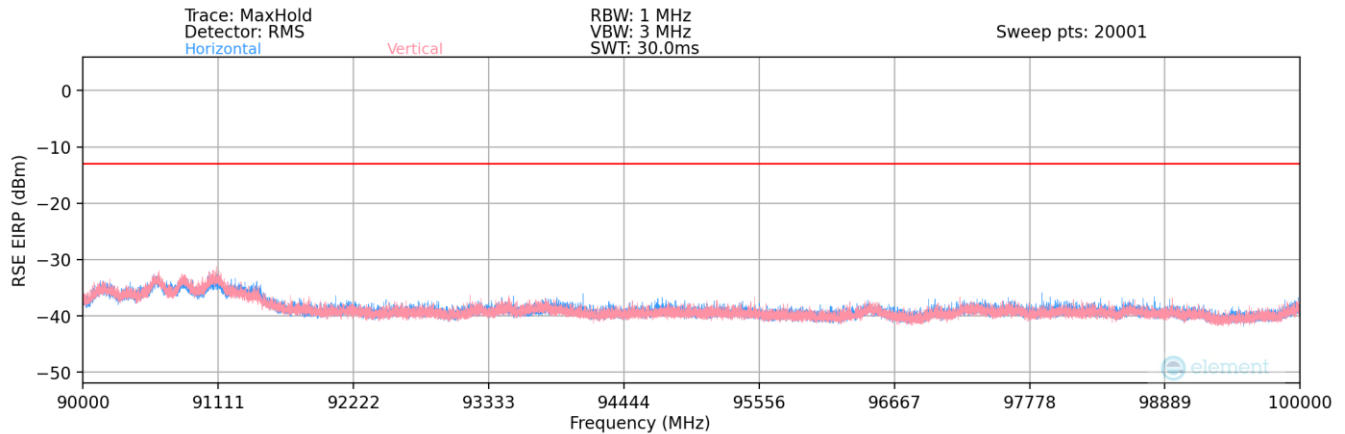
Table 7-39.n258-R2 Radiated Spurious Emissions Table (60GHz - 90GHz)

### 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 test distance of 1 meter.

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## 90GHz - 100GHz



Plot 7-129.n258-R2 Radiated Spurious Plot

### 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.

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

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]
99102.91	Low	50	2Tx	QPSK	V	116	267	-43.06	-13.00	-30.06
100002.15	Mid	50	2Tx	QPSK	V	122	268	-43.21	-13.00	-30.21
100902.30	High	50	2Tx	QPSK	V	124	277	-44.03	-13.00	-31.03

Table 7-40.n258-R2 Radiated Spurious Emissions Table (90GHz - 100GHz)

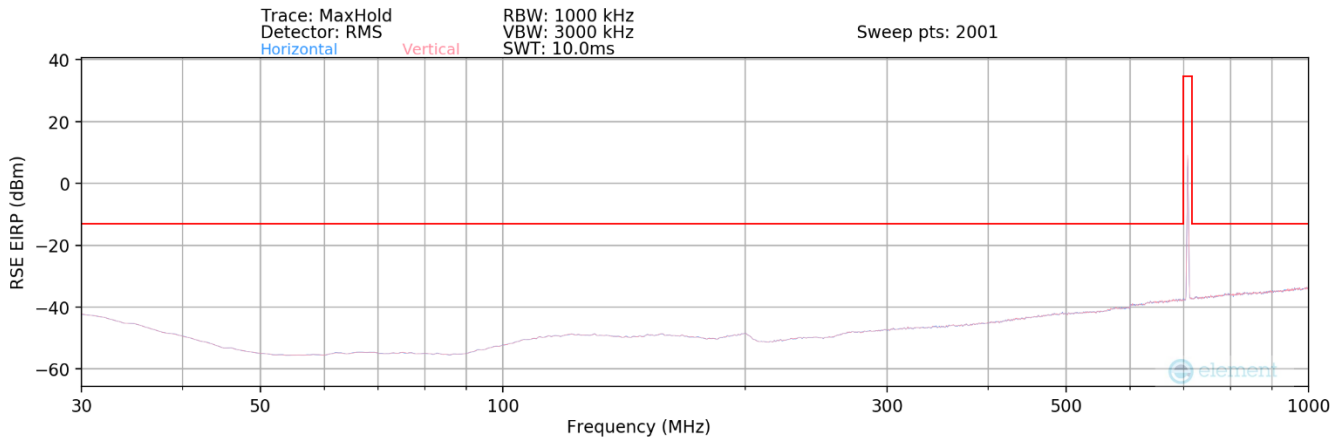
### Notes

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 test distance of 1 meter.

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## Band n258-R2- Ant 2

### 30MHz - 1GHz



**Plot 7-130.n258-R2 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### 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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
288.00	Low	50	2Tx	QPSK	H	-	-	-57.86	-13.00	-44.86
302.00	Mid	50	2Tx	QPSK	H	-	-	-57.51	-13.00	-44.51
316.00	High	50	2Tx	QPSK	H	-	-	-57.10	-13.00	-44.10

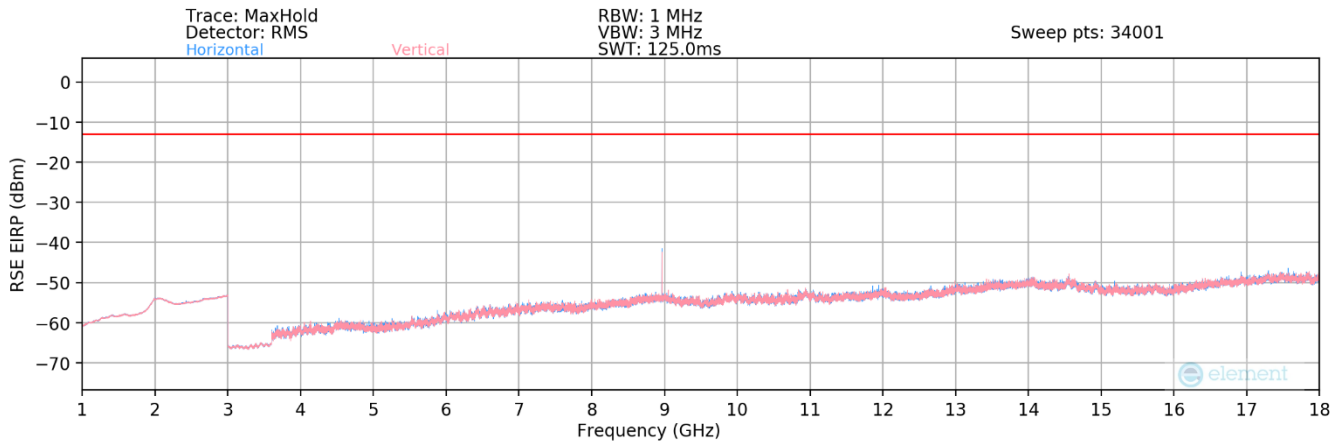
**Table 7-41.n258-R2 Radiated Spurious Emissions Table (30MHz - 1GHz)**

### 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 7-131.n258-R2 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

## 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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
8903.61	Low	50	2Tx	QPSK	H	355	59	-38.22	-13.00	-25.22
8965.00	Mid	50	2Tx	QPSK	H	350	62	-38.32	-13.00	-25.32
9097.52	High	50	2Tx	QPSK	H	352	57	-37.24	-13.00	-24.24

**Table 7-42.n258-R2 Radiated Spurious Emissions Table (1GHz - 18GHz)**

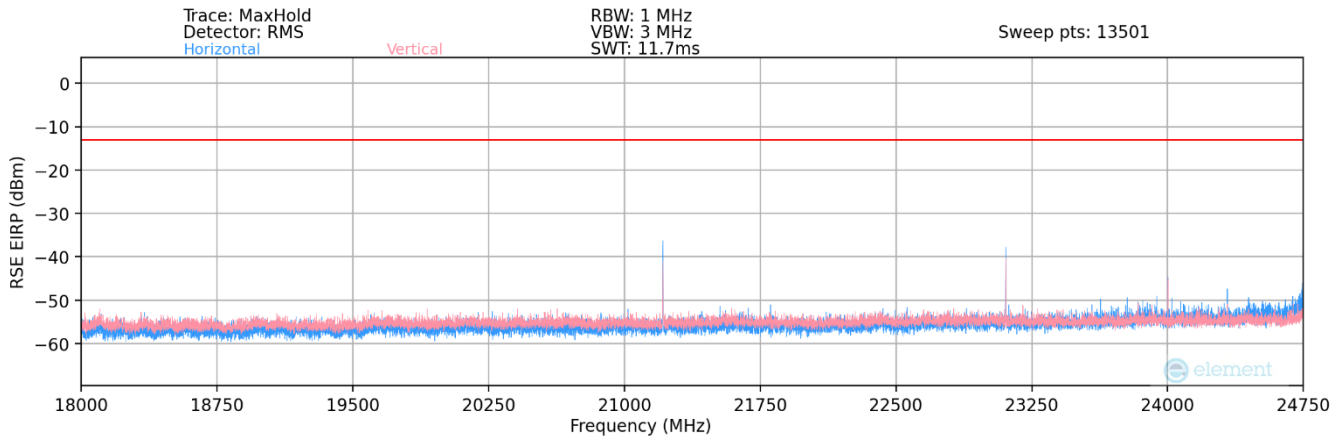
### Notes

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: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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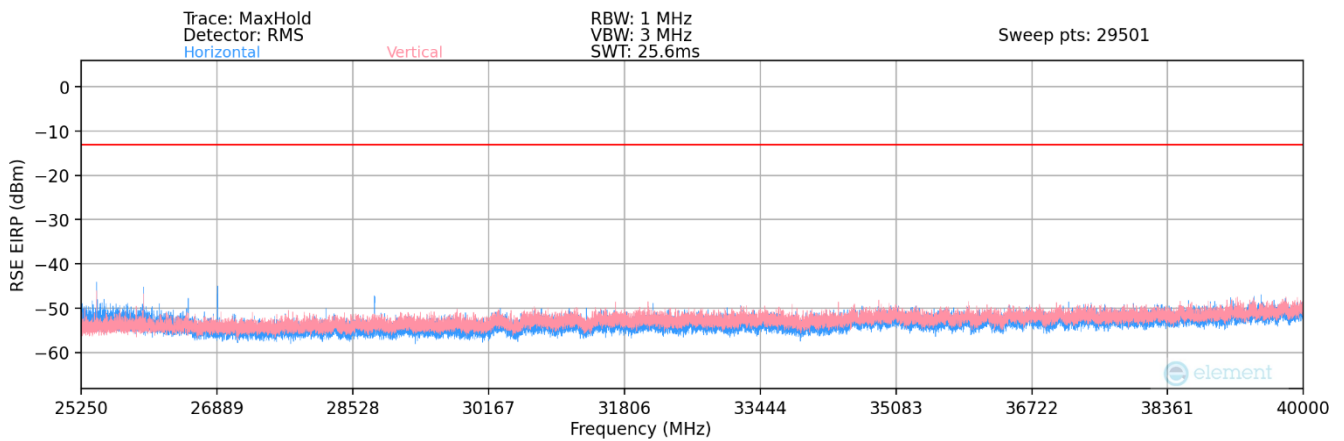


### 18GHz-24.75GHz



**Plot 7-132.n258-R2 Radiated Spurious Plot**

### 25.25GHz-40GHz



**Plot 7-133.n258-R2 Radiated Spurious Plot**

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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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
20905.00	Low	50	2Tx	QPSK	H	150.00	41	-37.44	-13.00	-24.44
22839.75	Low	50	2Tx	QPSK	H	150.00	41	-37.05	-13.00	-24.05
21212.00	Mid	50	2Tx	QPSK	H	150.00	42	-37.81	-13.00	-24.81
23107.00	Mid	50	2Tx	QPSK	H	150.00	226	-43.04	-13.00	-30.04
25436.00	Mid	50	2Tx	QPSK	H	150.00	233	-44.44	-13.00	-31.44
21089.00	High	50	2Tx	QPSK	H	150.00	32	-39.77	-13.00	-26.77
25321.00	High	50	2Tx	QPSK	H	150.00	31	-40.74	-13.00	-27.74

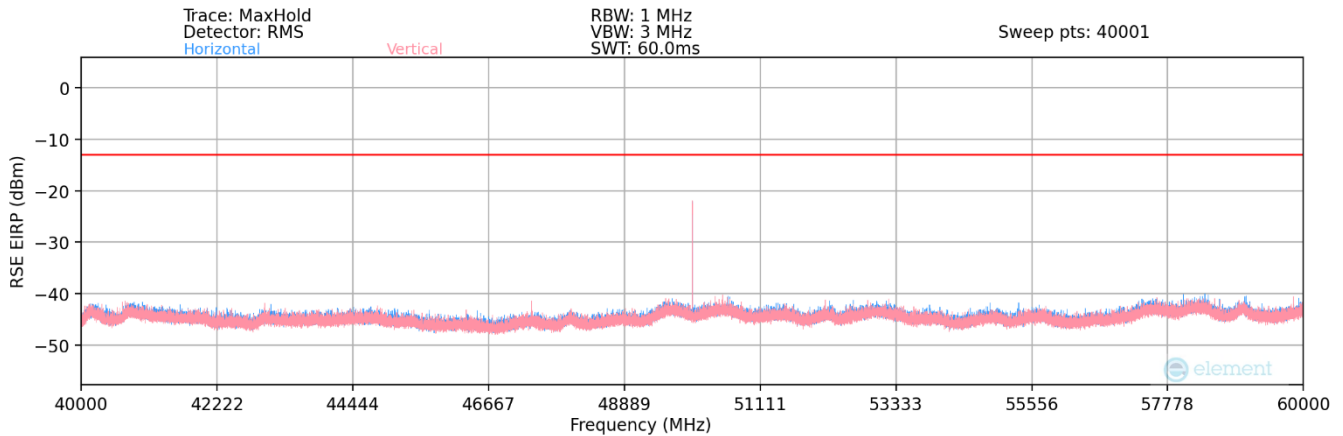
**Table 7-43.n258-R2 Radiated Spurious Emissions Table (18GHz - 40GHz)**

### 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 test distance of 1 meter.

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## 40GHz - 60GHz



Plot 7-134.n258-R2 Radiated Spurious Plot

### 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.

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

Frequency [MHz]	Channel	Bandwidth (MHz)	EUT Beam Pol.	Modulation	Antenna Polarization [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
49551.45	Low	50	2Tx	QPSK	V	360	74	-25.03	-13.00	-12.03
50000.00	Mid	50	2Tx	QPSK	V	296	85	-20.89	-13.00	-7.89
50451.05	High	50	2Tx	QPSK	V	9	81	-21.23	-13.00	-8.23

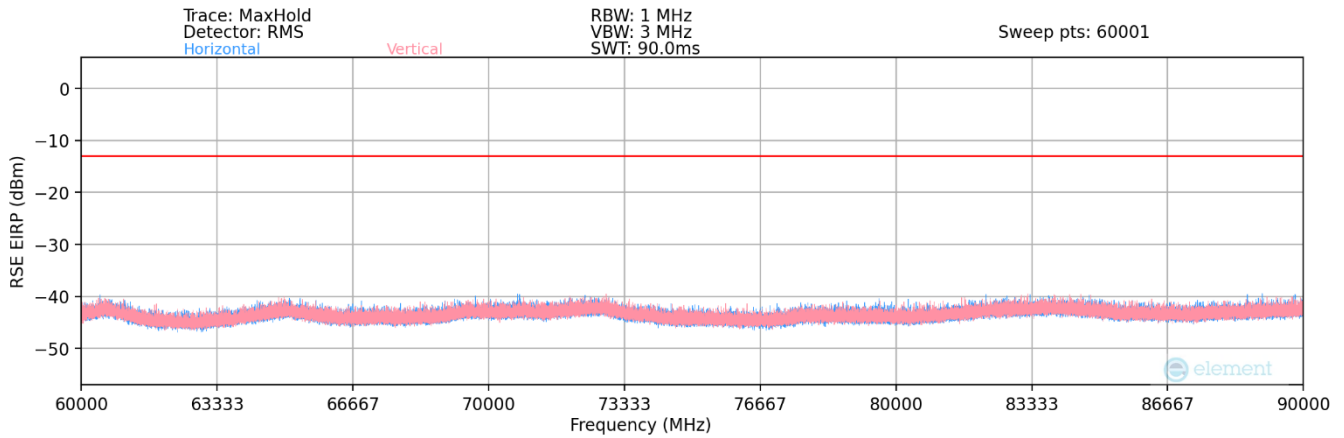
Table 7-44.n258-R2 Radiated Spurious Emissions Table (40GHz - 60GHz)

### 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.

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## 60GHz - 90GHz



**Plot 7-135.n258-R2 Radiated Spurious Plot**

### 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.

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

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]
74327.22	Low	50	2Tx	QPSK	V	13	120	-47.01	-13.00	-34.01
75001.86	Mid	50	2Tx	QPSK	V	358	116	-47.51	-13.00	-34.51
75676.44	High	50	2Tx	QPSK	V	19	111	-47.53	-13.00	-34.53

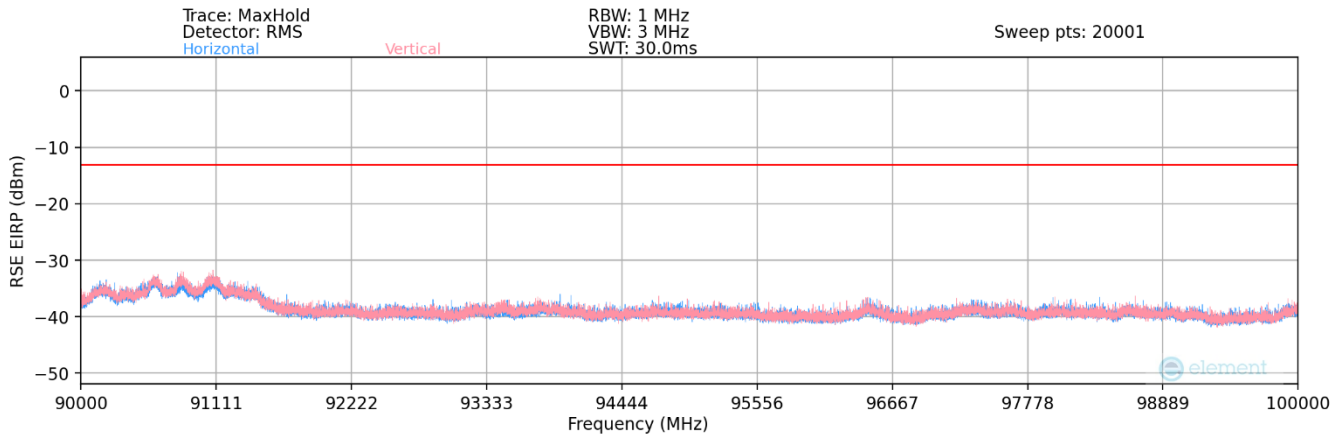
**Table 7-45.n258-R2 Radiated Spurious Emissions Table (60GHz - 90GHz)**

### 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 test distance of 1 meter.

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## 90GHz - 100GHz



Plot 7-136.n258-R2 Radiated Spurious Plot

### 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.

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

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]
99103.05	Low	50	2Tx	QPSK	V	90	112	-39.45	-13.00	-26.45
100002.51	Mid	50	2Tx	QPSK	V	86	113	-42.01	-13.00	-29.01
100902.03	High	50	2Tx	QPSK	V	88	111	-42.26	-13.00	-29.26

Table 7-46.n258-R2 Radiated Spurious Emissions Table (90GHz - 100GHz)

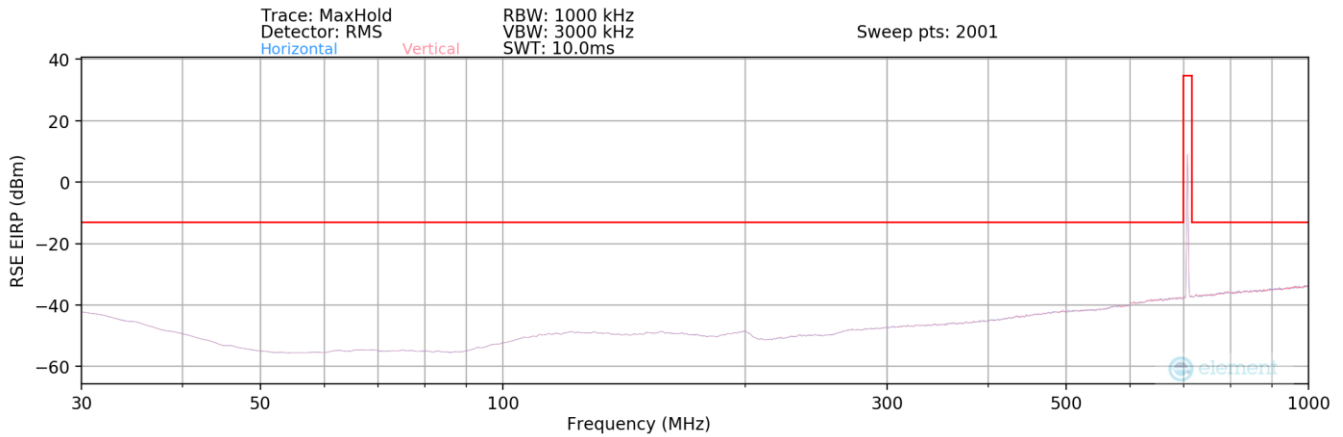
### Notes

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 test distance of 1 meter.

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## Band n261 – Ant 1

### 30MHz - 1GHz



**Plot 7-137.n261 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### Spurious Emissions ERP Sample Calculation (n261)

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]
409.00	Low	50	2Tx	QPSK	V	-	-	-55.00	-13.00	-42.00
422.00	Mid	50	2Tx	QPSK	V	-	-	-54.41	-13.00	-41.41
436.00	High	50	2Tx	QPSK	V	-	-	-53.97	-13.00	-40.97

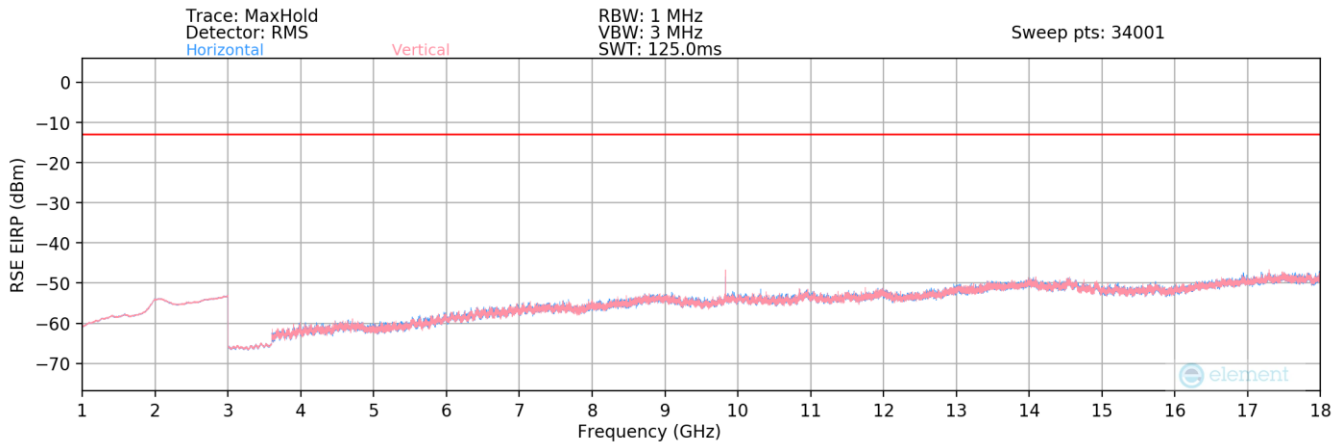
**Table 7-47.n261 Radiated Spurious Emissions Table (30MHz - 1GHz)**

### 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 7-138.n261 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### Spurious Emissions EIRP Sample Calculation (n261)

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]
9787.87	Low	50	2Tx	QPSK	V	110	314	-46.17	-13.00	-33.17
9831.50	Mid	50	2Tx	QPSK	V	113	316	-50.19	-13.00	-37.19
10021.71	High	50	2Tx	QPSK	V	-	-	-57.42	-13.00	-44.42

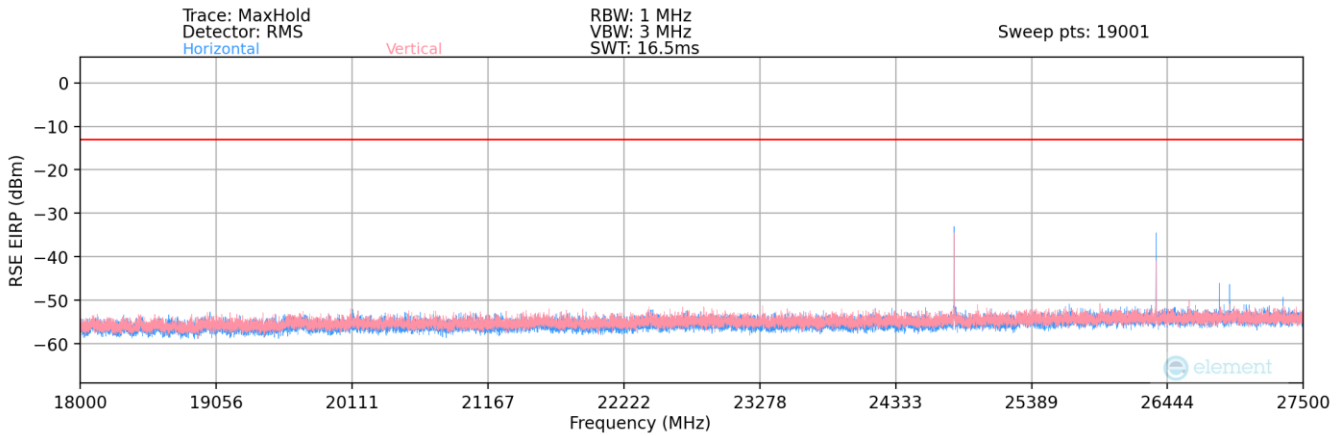
**Table 7-48.n261 Radiated Spurious Emissions Table (1GHz - 18GHz)**

### 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 test distance of 3 meter.

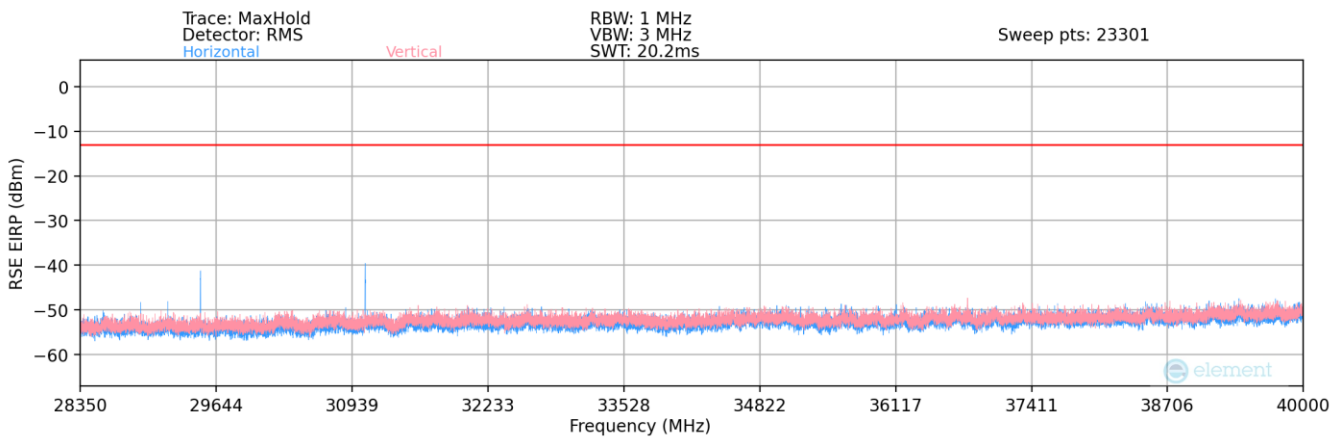
FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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### 18GHz-27.5GHz



**Plot 7-139.n261 Radiated Spurious Plot**

### 28.35GHz-40GHz



**Plot 7-140.n261 Radiated Spurious Plot**

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## Spurious Emissions EIRP Sample Calculation (n261)

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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
25696.00	Low	50	2Tx	QPSK	150.00	150	37	-40.78	-13.00	-27.78
26880.00	Low	50	2Tx	QPSK	150.00	150	23	-54.83	-13.00	-41.83
27429.00	Low	50	2Tx	QPSK	150.00	150	30	-38.89	-13.00	-25.89
24787.00	Mid	50	2Tx	QPSK	150.00	150	63	-37.05	-13.00	-24.05
26355.00	Mid	50	2Tx	QPSK	150.00	150	317	-36.69	-13.00	-23.69
29494.00	Mid	50	2Tx	QPSK	150.00	150	320	-46.56	-13.00	-33.56
31062.80	Mid	50	2Tx	QPSK	150.00	150	321	-35.72	-13.00	-22.72
26915.00	High	50	2Tx	QPSK	150.00	150	312	-46.37	-13.00	-33.37
28419.00	High	50	2Tx	QPSK	150.00	150	346	-40.69	-13.00	-27.69
28863.00	High	50	2Tx	QPSK	150.00	150	336	-54.23	-13.00	-41.23

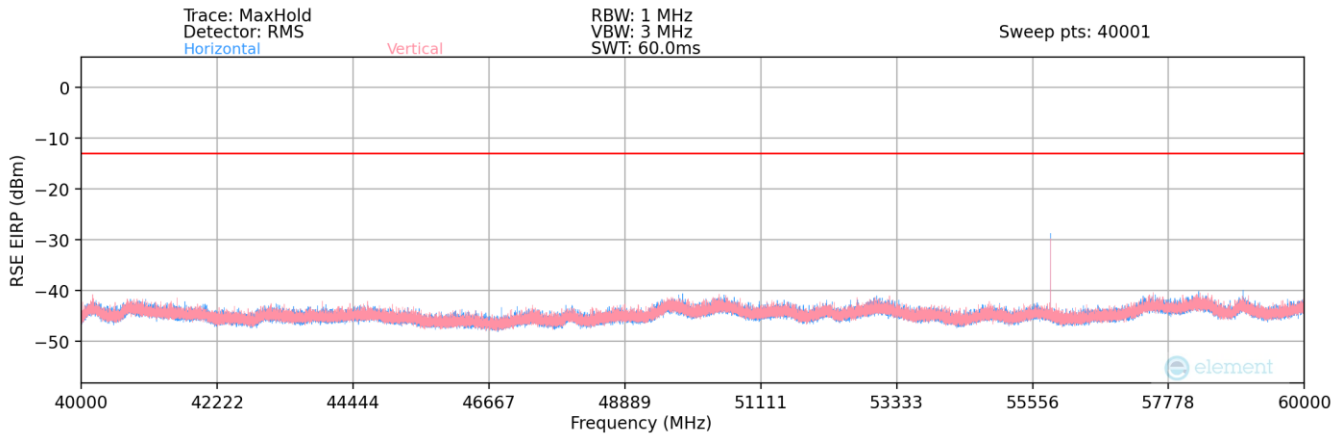
**Table 7-49.n261 Radiated Spurious Emissions Table (18GHz - 40GHz)**

### 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 test distance of 1 meter.

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## 40GHz - 60GHz



**Plot 7-141.n261 Radiated Spurious Plot**

### Spurious Emissions EIRP Sample Calculation (n261)

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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
55051.25	Low	50	2Tx	QPSK	V	317	299	-29.32	-13.00	-16.32
55850.57	Mid	50	2Tx	QPSK	V	328	291	-27.71	-13.00	-14.71
56649.65	High	50	2Tx	QPSK	V	325	294	-27.66	-13.00	-14.66

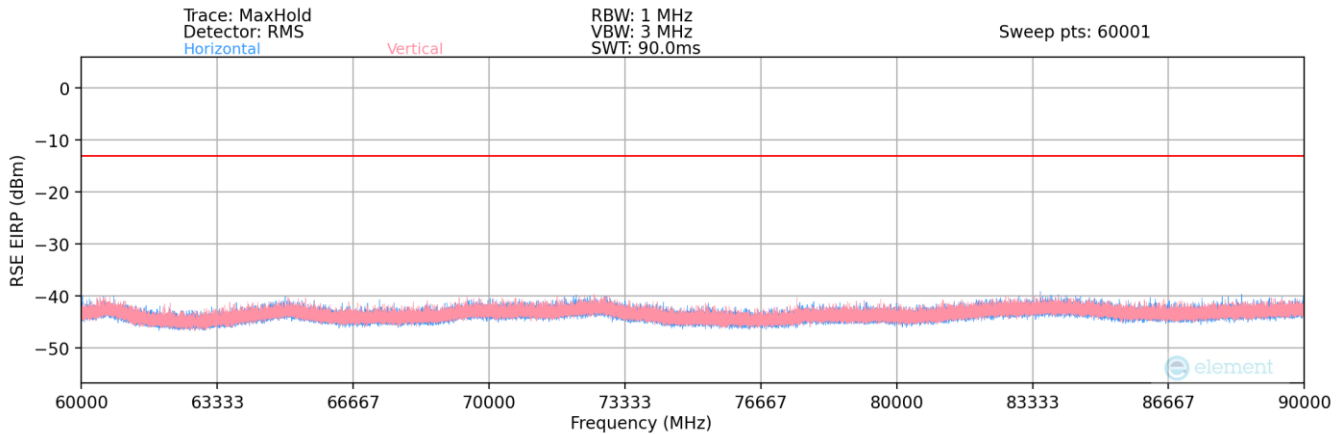
**Table 7-50.n261 Radiated Spurious Emissions Table (40GHz - 60GHz)**

### 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 7-142.n261 Radiated Spurious Plot**

### Spurious Emissions EIRP Sample Calculation (n261)

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]
82575.75	Low	50	2Tx	QPSK	V	115	109	-45.01	-13.00	-32.01
83775.00	Mid	50	2Tx	QPSK	V	124	96	-42.38	-13.00	-29.38
84976.95	High	50	2Tx	QPSK	V	103	97	-44.25	-13.00	-31.25

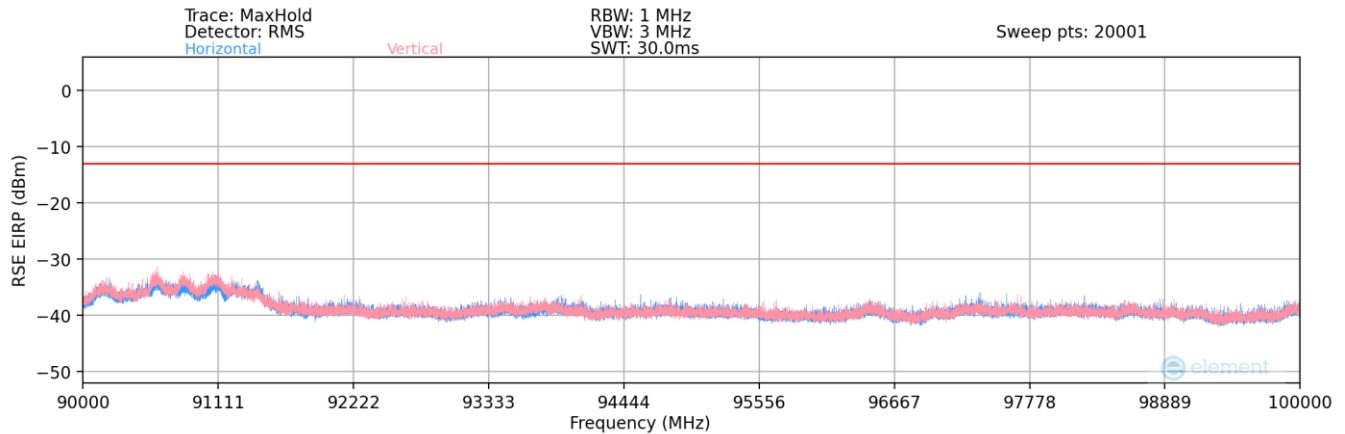
**Table 7-51.n261 Radiated Spurious Emissions Table (60GHz - 90GHz)**

### 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 test distance of 1 meter.

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## 90GHz - 100GHz



**Plot 7-143.n261 Radiated Spurious Plot**

### Spurious Emissions EIRP Sample Calculation (n261)

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]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
94508.42	Low	50	2Tx	QPSK	V	-	-	-44.81	-13.00	-31.81
95056.04	Mid	50	2Tx	QPSK	V	-	-	-44.91	-13.00	-31.91
96495.42	High	50	2Tx	QPSK	V	-	-	-44.30	-13.00	-31.30

**Table 7-52.n261 Radiated Spurious Emissions Table (90GHz - 100GHz)**

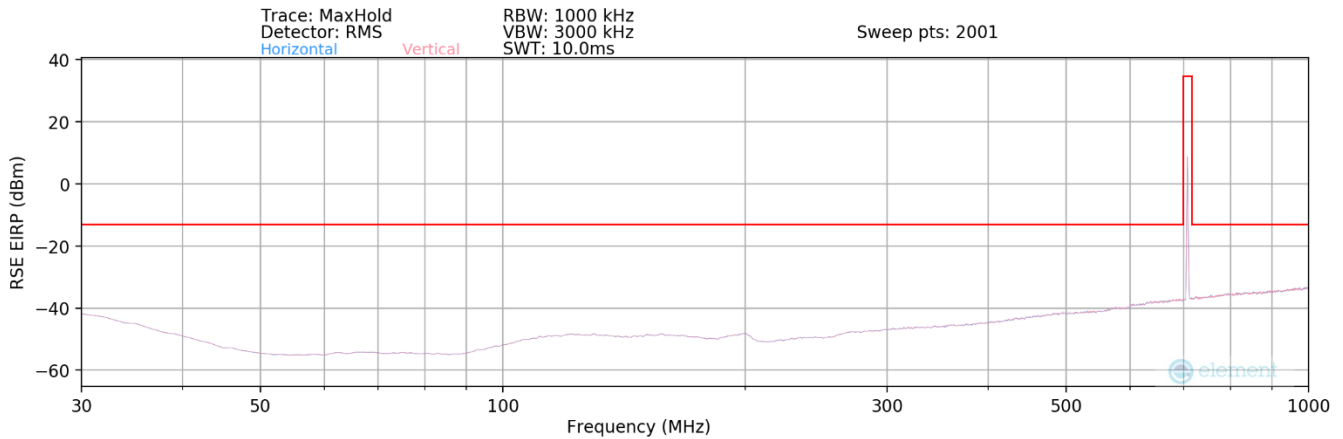
### Notes

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 test distance of 1 meter.

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## Band n261 – Ant 2

### 30MHz - 1GHz



**Plot 7-144.n261 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### Spurious Emissions ERP Sample Calculation (n261)

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]
273.00	Low	50	2Tx	QPSK	H	-	-	-57.74	-13.00	-44.74
366.00	Mid	50	2Tx	QPSK	H	-	-	-55.80	-13.00	-42.80
389.00	High	50	2Tx	QPSK	H	-	-	-55.18	-13.00	-42.18

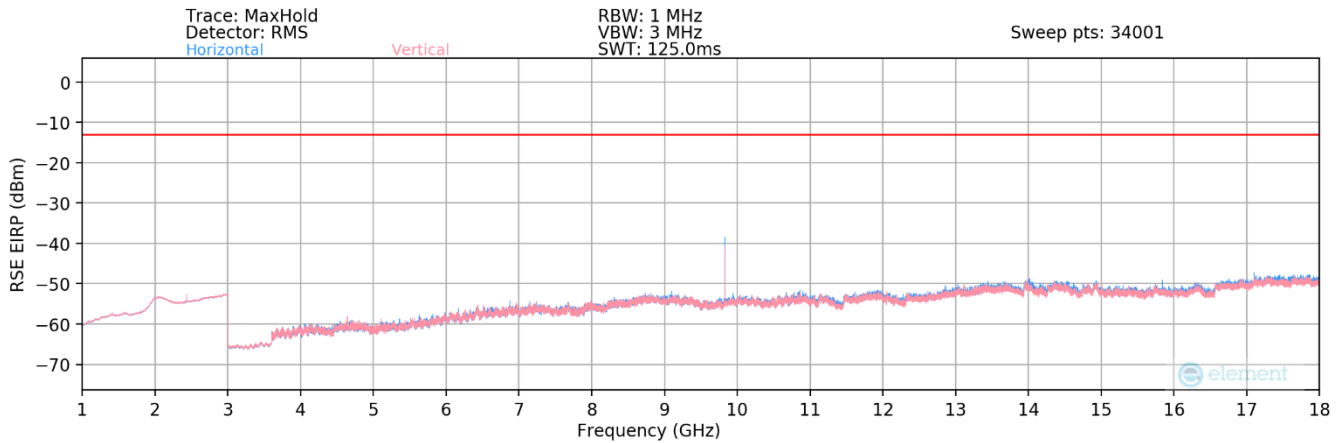
**Table 7-53.n261 Radiated Spurious Emissions Table (30MHz - 1GHz)**

### 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 7-145.n261 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### Spurious Emissions EIRP Sample Calculation (n261)

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]
9785.03	Low	50	2Tx	QPSK	H	164	320	-33.85	-13.00	-20.85
9831.50	Mid	50	2Tx	QPSK	H	175	315	-34.28	-13.00	-21.28
10002.00	High	50	2Tx	QPSK	H	-	-	-57.07	-13.00	-44.07

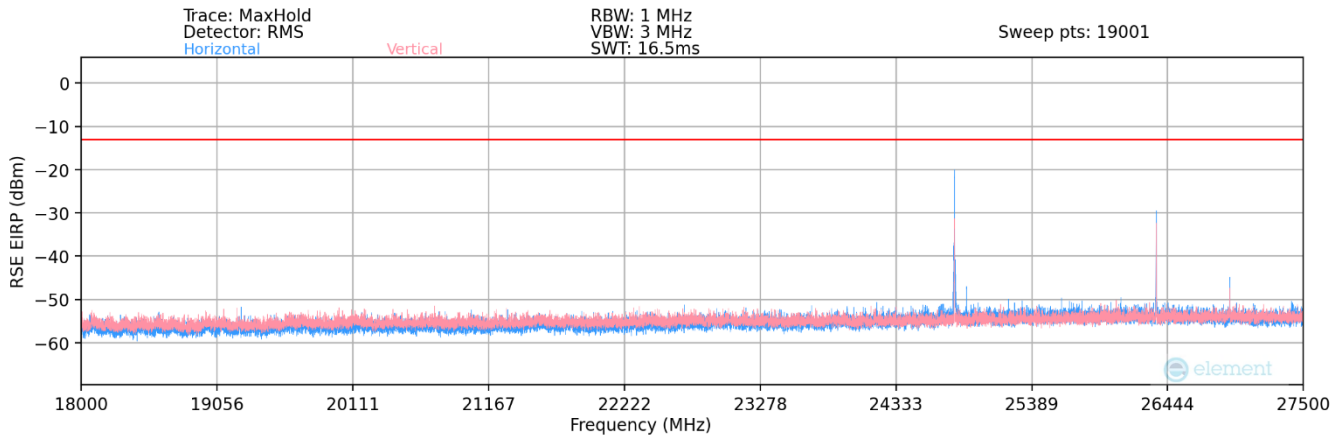
**Table 7-54.n261 Radiated Spurious Emissions Table (1GHz - 18GHz)**

### 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 test distance of 3 meter.

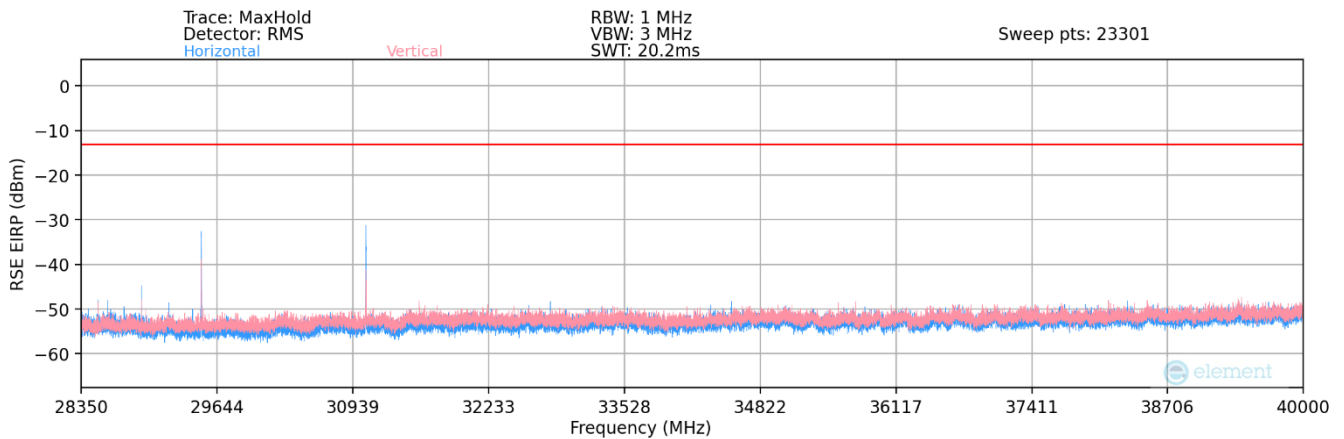
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### 18GHz-27.5GHz



**Plot 7-146.n261 Radiated Spurious Plot**

### 28.35GHz-40GHz



**Plot 7-147.n261 Radiated Spurious Plot**

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## Spurious Emissions EIRP Sample Calculation (n261)

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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
27431.00	Low	50	2Tx	QPSK	H	150	219	-30.57	-13.00	-17.57
27478.00	Low	50	2Tx	QPSK	H	150	235	-31.94	-13.00	-18.94
27621.00	Low	50	2Tx	QPSK	H	150	213	-33.61	-13.00	-20.61
24788.00	Mid	50	2Tx	QPSK	H	150	0	-25.79	-13.00	-12.79
26356.00	Mid	50	2Tx	QPSK	H	150	241	-31.51	-13.00	-18.51
29494.00	Mid	50	2Tx	QPSK	H	150	220	-36.94	-13.00	-23.94
31064.00	Mid	50	2Tx	QPSK	H	150	1	-38.06	-13.00	-25.06
25504.00	High	50	2Tx	QPSK	H	150	38	-38.17	-13.00	-25.17
26914.00	High	50	2Tx	QPSK	H	150	38	-40.37	-13.00	-27.37
29732.00	High	50	2Tx	QPSK	H	150	49	-35.65	-13.00	-22.65

**Table 7-55.n261 Radiated Spurious Emissions Table (18GHz - 40GHz)**

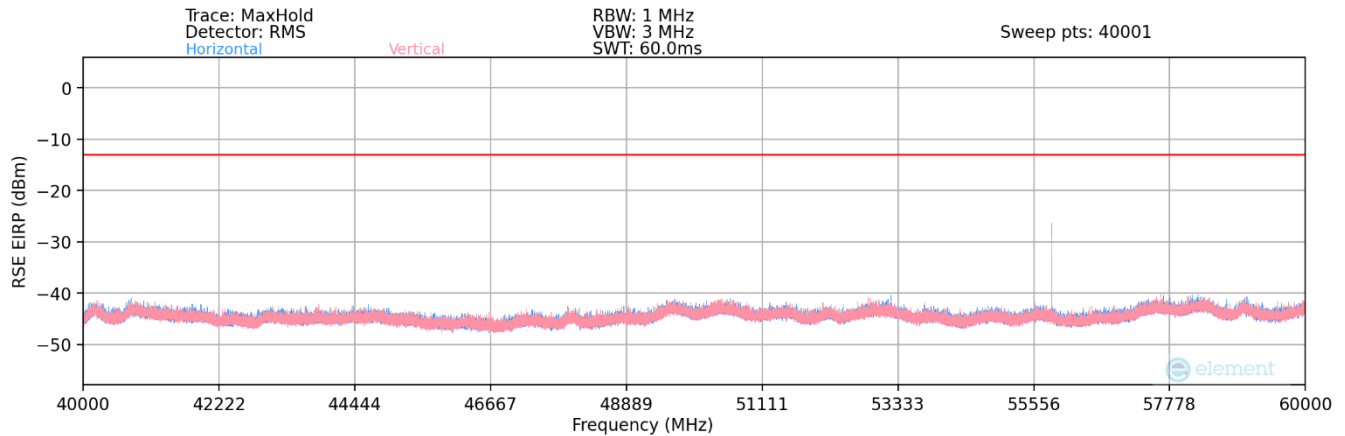
### Notes

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 test distance of 1 meter.

FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 40GHz - 60GHz



**Plot 7-148.n261 Radiated Spurious Plot**

### Spurious Emissions EIRP Sample Calculation (n261)

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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
55051.30	Low	50	2Tx	QPSK	V	4	339	-27.79	-13.00	-14.79
55851.15	Mid	50	2Tx	QPSK	H	174	285	-23.87	-13.00	-10.87
56649.65	High	50	2Tx	QPSK	V	259	260	-27.30	-13.00	-14.30

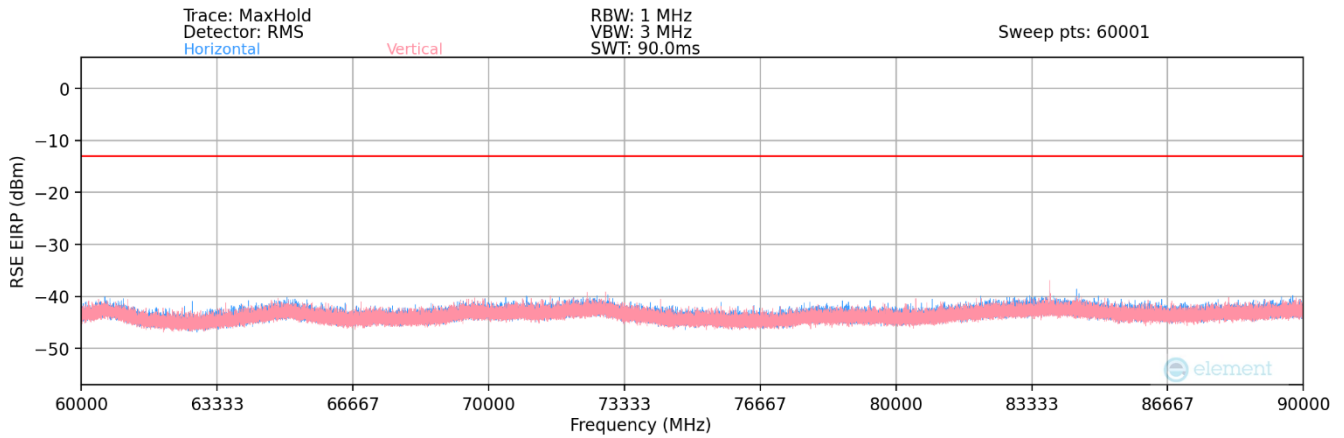
**Table 7-56.n261 Radiated Spurious Emissions Table (40GHz - 60GHz)**

### 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 7-149.n261 Radiated Spurious Plot**

### Spurious Emissions EIRP Sample Calculation (n261)

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]
82575.75	Low	50	2Tx	QPSK	V	360	284	-41.96	-13.00	-28.96
83775.00	Mid	50	2Tx	QPSK	V	6	277	-40.10	-13.00	-27.10
84976.90	High	50	2Tx	QPSK	V	7	270	-40.48	-13.00	-27.48

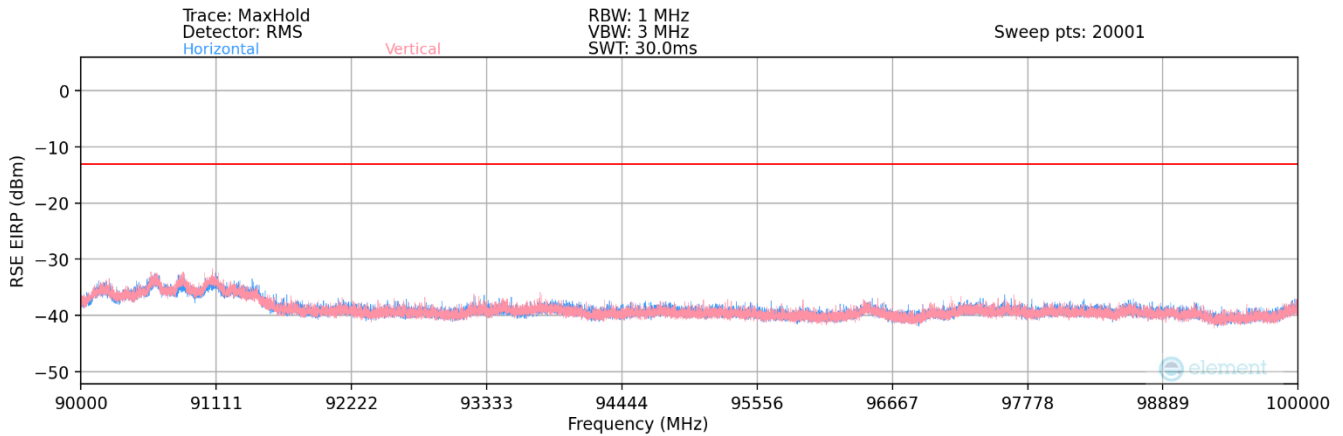
**Table 7-57.n261 Radiated Spurious Emissions Table (60GHz - 90GHz)**

### 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 test distance of 1 meter.

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## 90GHz - 100GHz



**Plot 7-150.n261 Radiated Spurious Plot**

### Spurious Emissions EIRP Sample Calculation (n261)

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]
94399.94	Low	50	2Tx	QPSK	V	-	-	-44.94	-13.00	-31.94
95507.84	Mid	50	2Tx	QPSK	H	-	-	-44.93	-13.00	-31.93
96490.44	High	50	2Tx	QPSK	V	-	-	-44.08	-13.00	-31.08

**Table 7-58.n261 Radiated Spurious Emissions Table (90GHz - 100GHz)**

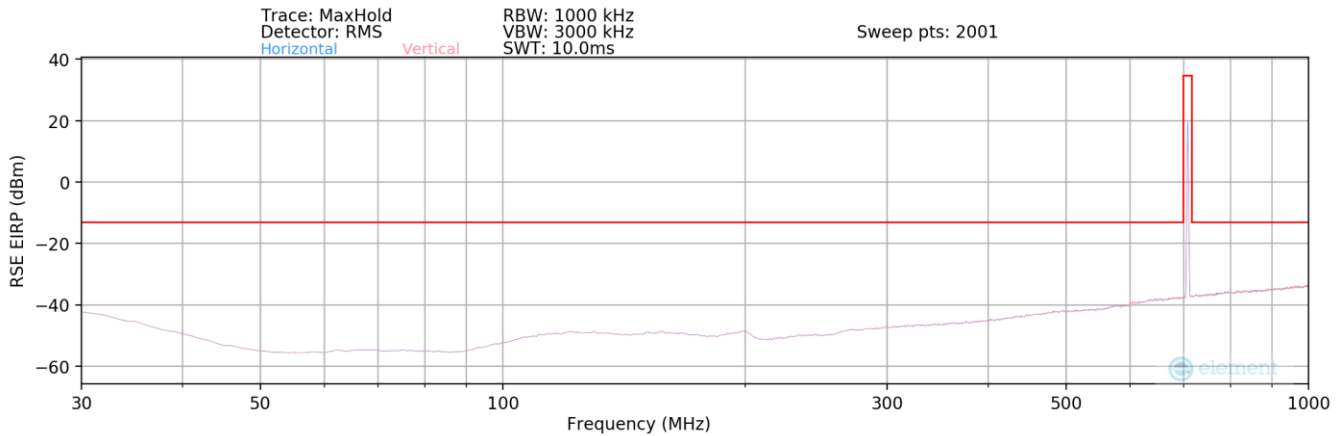
### Notes

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 test distance of 1 meter.

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## Band n260 – Ant 1

### 30MHz - 1GHz



**Plot 7-151.n260 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### 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]
107.00	Low	50	2Tx	QPSK	V	-	-	-60.30	-13.00	-47.30
110.00	Mid	50	2Tx	QPSK	V	-	-	-60.07	-13.00	-47.07
117.00	High	50	2Tx	QPSK	V	-	-	-59.00	-13.00	-46.00

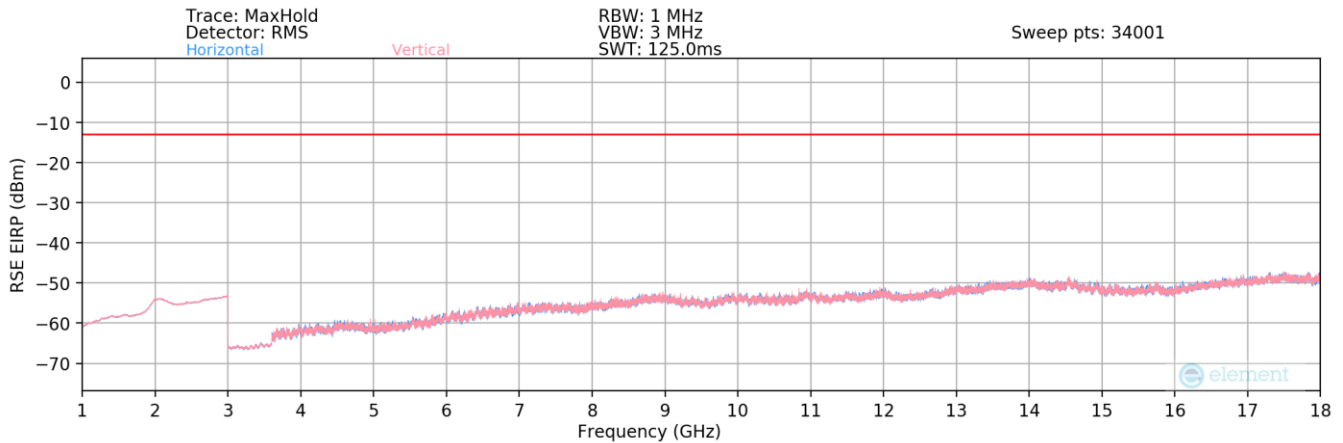
**Table 7-59.n260 Radiated Spurious Emissions Table (30MHz - 1GHz)**

### 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.

FCC ID: A3LSMS928U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## 1GHz - 18GHz



**Plot 7-152.n260 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### 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]
14250.00	Low	50	2Tx	QPSK	V	-	-	-54.68	-13.00	-41.68
14500.00	Mid	50	2Tx	QPSK	V	-	-	-57.35	-13.00	-44.35
15001.00	High	50	2Tx	QPSK	V	-	-	-56.18	-13.00	-43.18

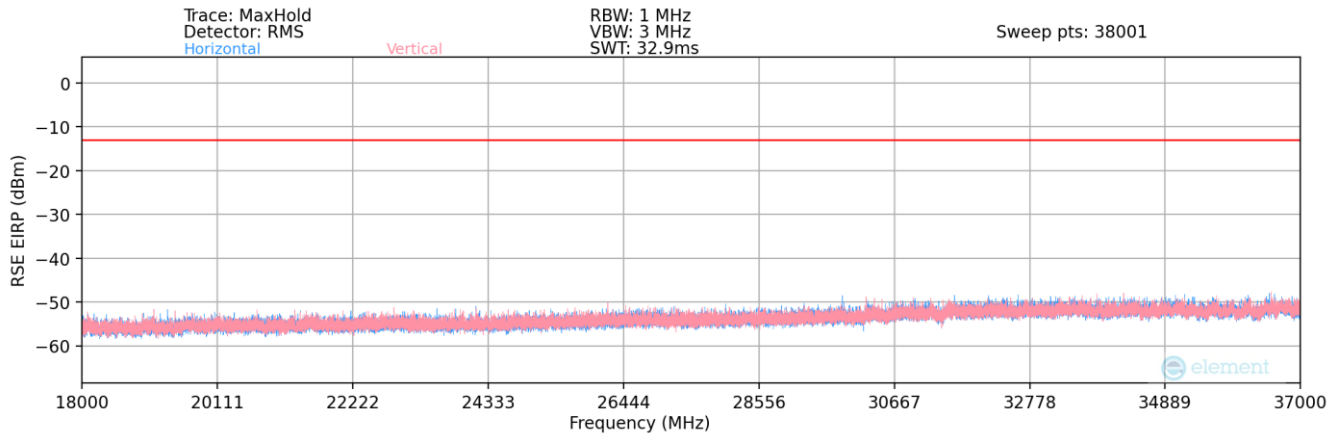
**Table 7-60.n260 Radiated Spurious Emissions Table (1GHz - 18GHz)**

### 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 test distance of 3 meter.

FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 18GHz-40GHz



**Plot 7-153.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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
27540.00	Low	50	2Tx	QPSK	V	-	-	-58.55	-13.00	-45.55
29998.00	Mid	50	2Tx	QPSK	V	-	-	-56.33	-13.00	-43.33
31105.00	High	50	2Tx	QPSK	V	-	-	-57.05	-13.00	-44.05

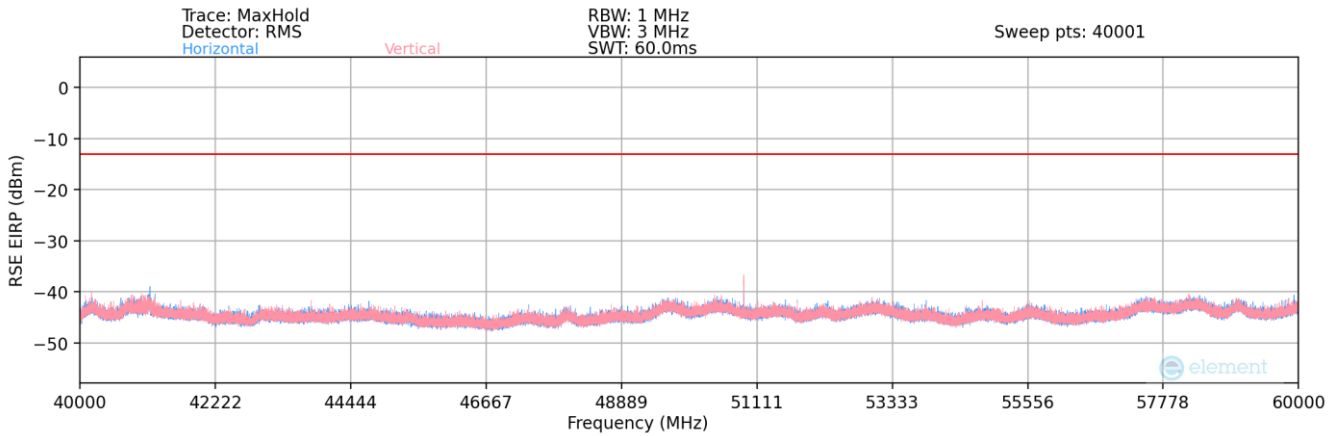
**Table 7-61.n260 Radiated Spurious Emissions Table (18GHz - 40GHz)**

### 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 test distance of 1 meter.

FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 40GHz - 60GHz



**Plot 7-154.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.

**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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
40635.00	Low	50	2Tx	QPSK	V	293	113	-45.75	-13.00	-32.75
50894.00	Mid	50	2Tx	QPSK	V	279	102	-40.68	-13.00	-27.68
52862.10	High	50	2Tx	QPSK	V	250	72	-44.52	-13.00	-31.52

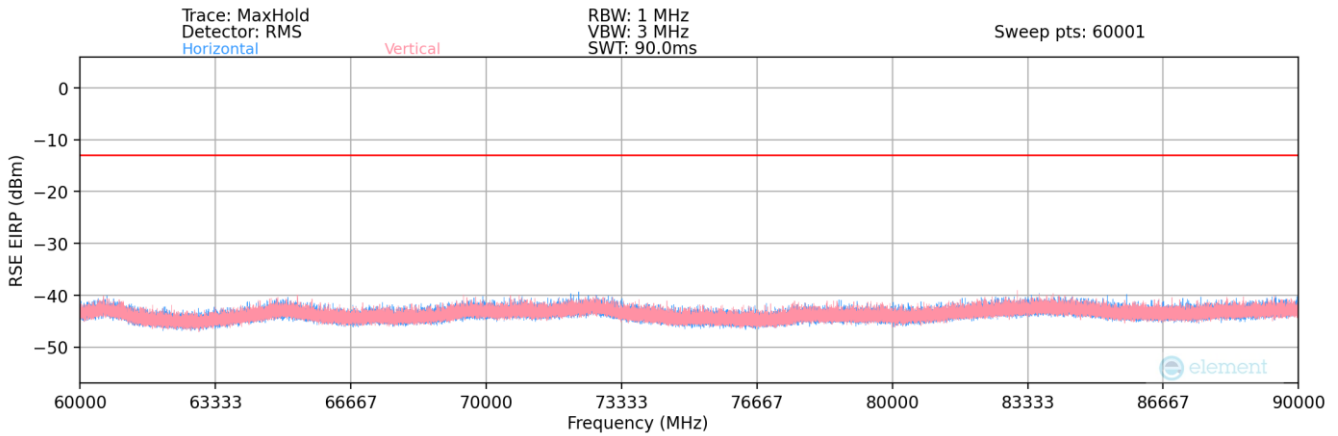
**Table 7-62.n260 Radiated Spurious Emissions Table (40GHz - 60GHz)**

### 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.

FCC ID: A3LSMS928U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## 60GHz - 90GHz



**Plot 7-155.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]
74051.13	Low	50	2Tx	QPSK	V	335	69	-43.54	-13.00	-30.54
77000.91	Mid	50	2Tx	QPSK	V	345	67	-47.69	-13.00	-34.69
79951.29	High	50	2Tx	QPSK	V	323	67	-47.93	-13.00	-34.93

**Table 7-63.n260 Radiated Spurious Emissions Table (60GHz - 90GHz)**

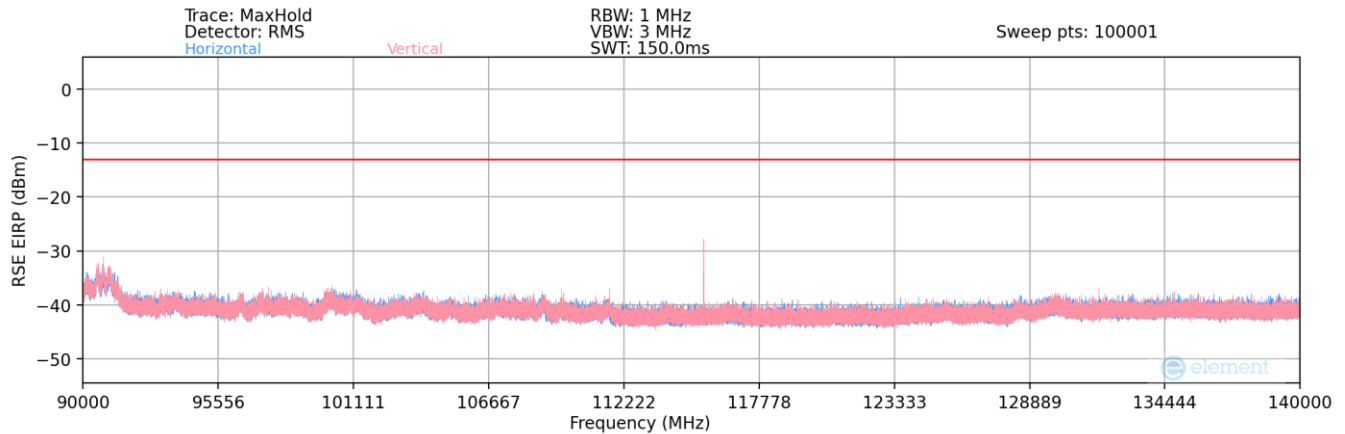
### Notes

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 test distance of 1 meter.

FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 90GHz - 140GHz



**Plot 7-156.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]
111075.00	Low	50	2Tx	QPSK	V	353	116	-44.23	-13.00	-31.23
115501.26	Mid	50	2Tx	QPSK	V	352	103	-30.54	-13.00	-17.54
119926.89	High	50	2Tx	QPSK	V	339	86	-35.00	-13.00	-22.00

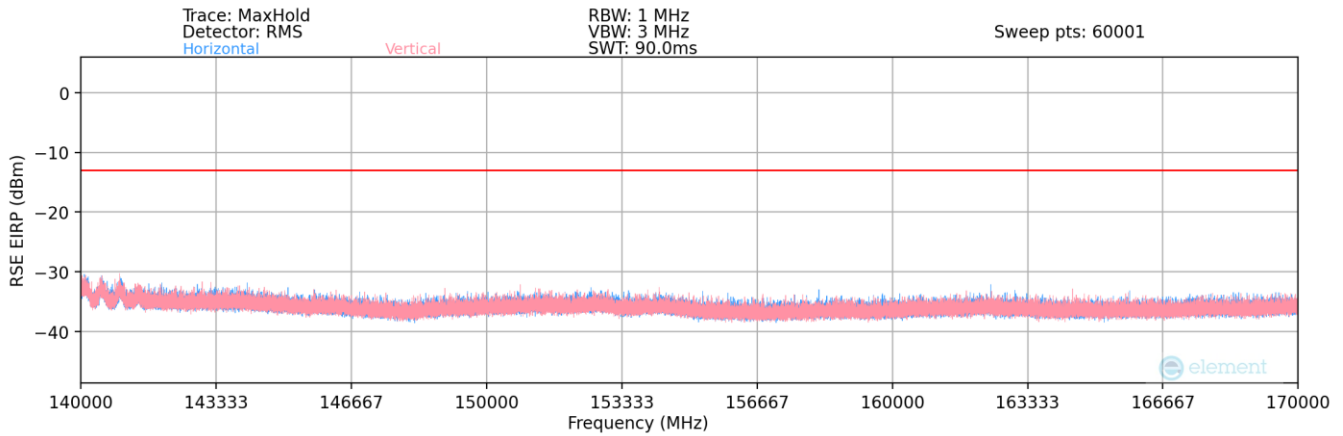
**Table 7-64.n260 Radiated Spurious Emissions Table (90GHz - 140GHz)**

### 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 test distance of 1 meter.

FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 140GHz - 170GHz



**Plot 7-157.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]
148092.89	Low	50	2Tx	QPSK	V	-	-	-39.09	-13.00	-26.09
154010.69	Mid	50	2Tx	QPSK	V	-	-	-38.16	-13.00	-25.16
159910.25	High	50	2Tx	QPSK	V	-	-	-38.66	-13.00	-25.66

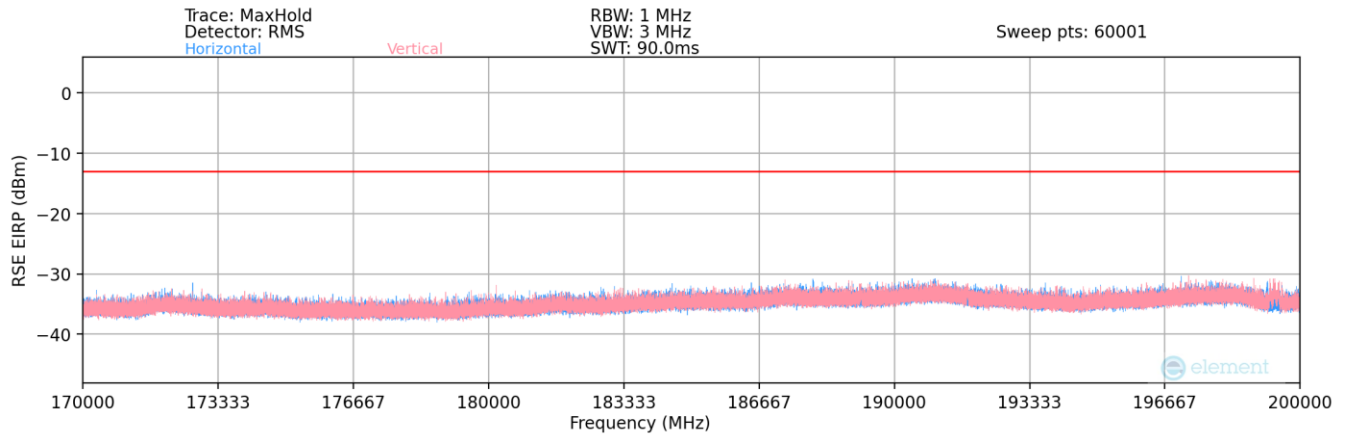
**Table 7-65.n260 Radiated Spurious Emissions Table (140GHz - 170GHz)**

### 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 test distance of 1 meter.

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## 170GHz - 200GHz



**Plot 7-158.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]
185136.04	Low	50	2Tx	QPSK	V	-	-	-39.27	-13.00	-26.27
192498.05	Mid	50	2Tx	QPSK	V	-	-	-38.67	-13.00	-25.67
199891.21	High	50	2Tx	QPSK	V	-	-	-39.36	-13.00	-26.36

**Table 7-66.n260 Radiated Spurious Emissions Table (170GHz - 200GHz)**

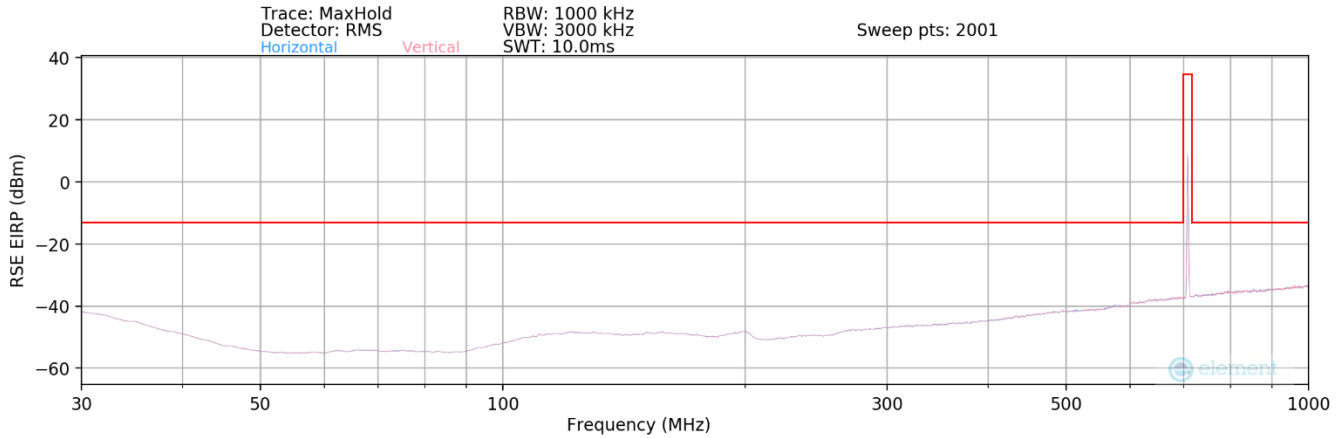
### Notes

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 test distance of 1 meter.

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## Band n260 – Ant 2

### 30MHz - 1GHz



**Plot 7-159.n260 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

### 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]
501.00	Low	50	2Tx	QPSK	V	-	-	-51.90	-13.00	-38.90
588.00	Mid	50	2Tx	QPSK	V	-	-	-50.68	-13.00	-37.68
642.00	High	50	2Tx	QPSK	V	-	-	-49.82	-13.00	-36.82

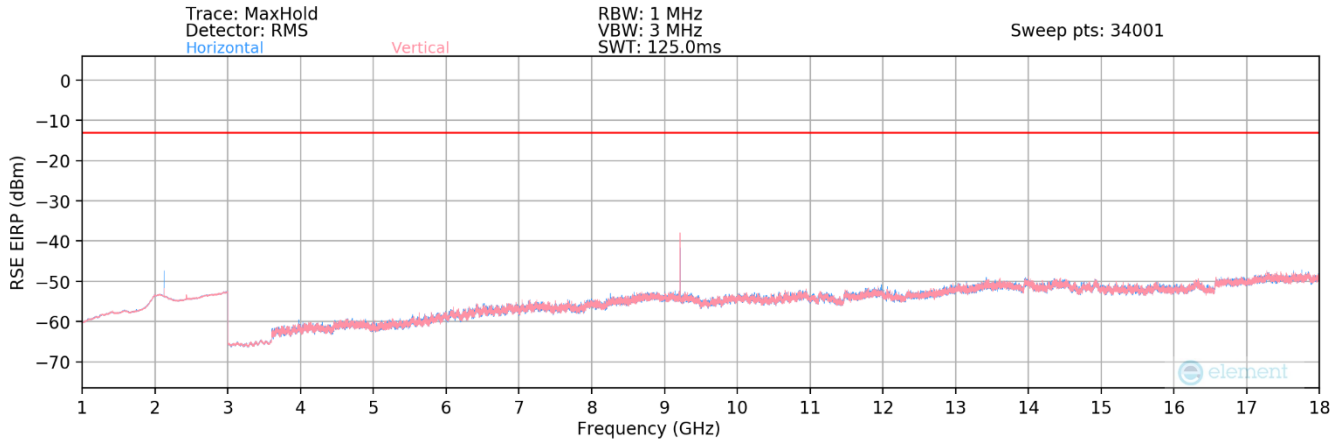
**Table 7-67.n260 Radiated Spurious Emissions Table (30MHz - 1GHz)**

### 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.

FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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# 1GHz - 18GHz



**Plot 7-160.n260 Radiated Spurious Plot – EN-DC Anchor LTE Band 12**

## 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]
9006.47	Low	50	2Tx	QPSK	V	-	-	-56.84	-13.00	-43.84
2122.50	Mid	50	2Tx	QPSK	H	160	150	-42.36	-13.00	-29.36
9214.50	Mid	50	2Tx	QPSK	V	109	60	-35.71	-13.00	-22.71
9506.00	High	50	2Tx	QPSK	V	-	-	-58.47	-13.00	-45.47

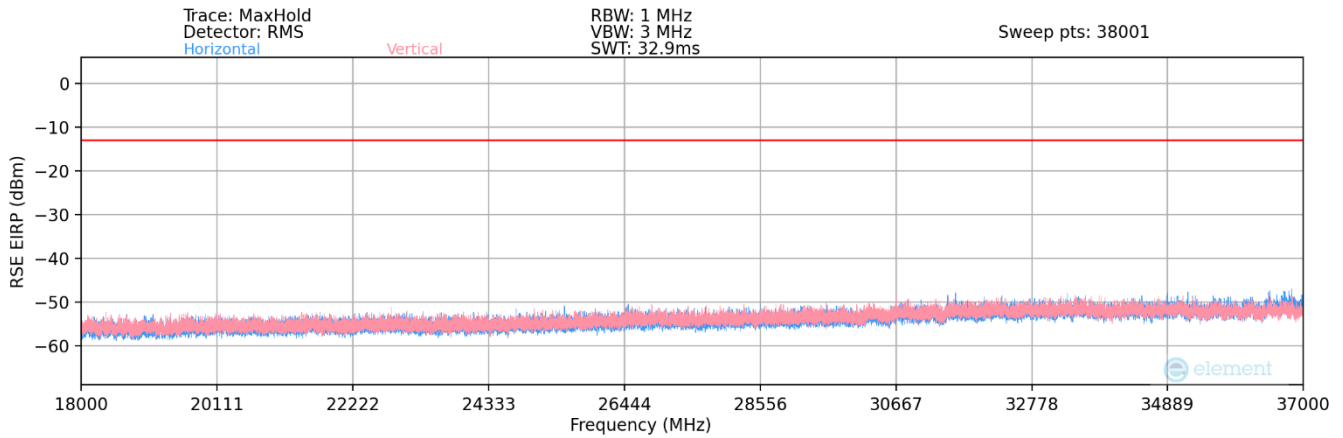
**Table 7-68.n260 Radiated Spurious Emissions Table (1GHz - 18GHz)**

## 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 test distance of 3 meter.

FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 18GHz-40GHz



**Plot 7-161.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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
34870.00	Low	50	2Tx	QPSK	H	-	-	-56.13	-13.00	-43.13
35016.00	Mid	50	2Tx	QPSK	H	-	-	-57.16	-13.00	-44.16
35502.00	High	50	2Tx	QPSK	H	-	-	-55.30	-13.00	-42.30

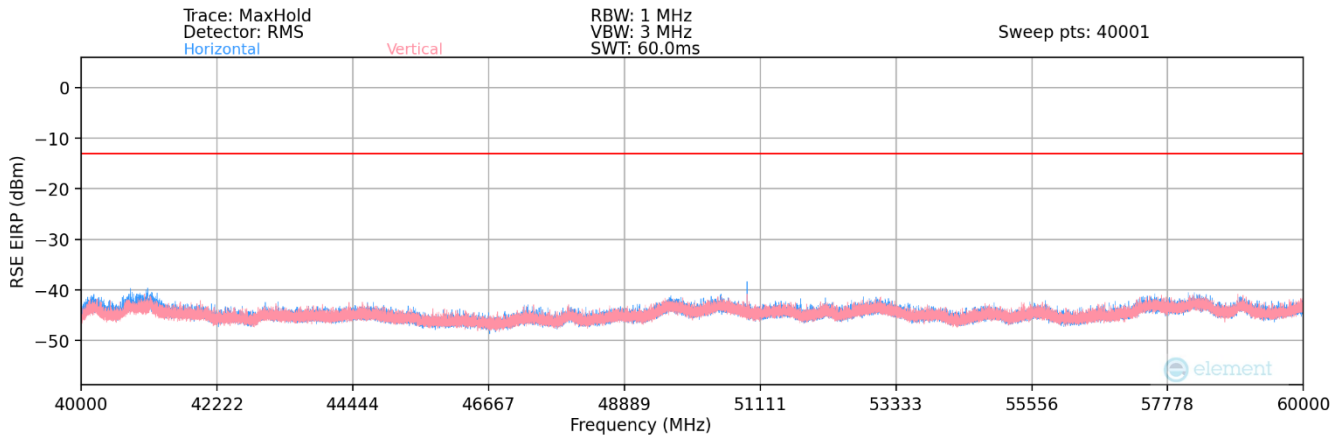
**Table 7-69.n260 Radiated Spurious Emissions Table (18GHz - 40GHz)**

### 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 test distance of 1 meter.

FCC ID: A3LSMS928U	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
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## 40GHz - 60GHz



**Plot 7-162.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]	Antenna Height [cm]	Turntable Azimuth [degrees]	Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
40635.00	Low	50	2Tx	QPSK	V	36	268	-46.07	-13.00	-33.07
50894.00	Mid	50	2Tx	QPSK	H	86	198	-40.25	-13.00	-27.25
52862.10	High	50	2Tx	QPSK	V	74	263	-45.20	-13.00	-32.20

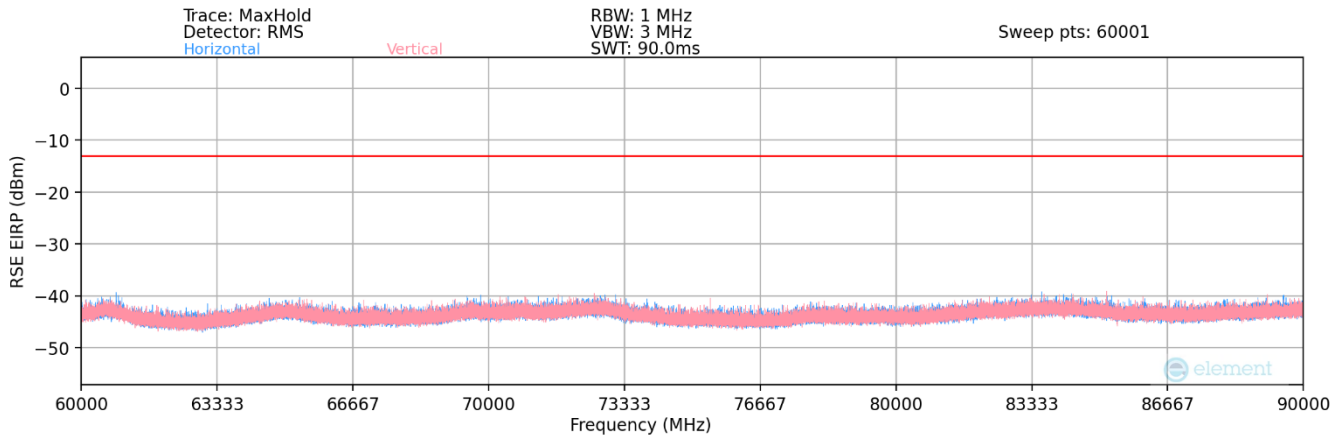
**Table 7-70.n260 Radiated Spurious Emissions Table (40GHz - 60GHz)**

### 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.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]
74052.07	Low	50	2Tx	QPSK	V	286	316	-41.31	-13.00	-28.31
77000.91	Mid	50	2Tx	QPSK	V	286	317	-47.24	-13.00	-34.24
79950.00	High	50	2Tx	QPSK	V	-	-	-48.56	-13.00	-35.56

**Table 7-71.n260 Radiated Spurious Emissions Table (60GHz - 90GHz)**

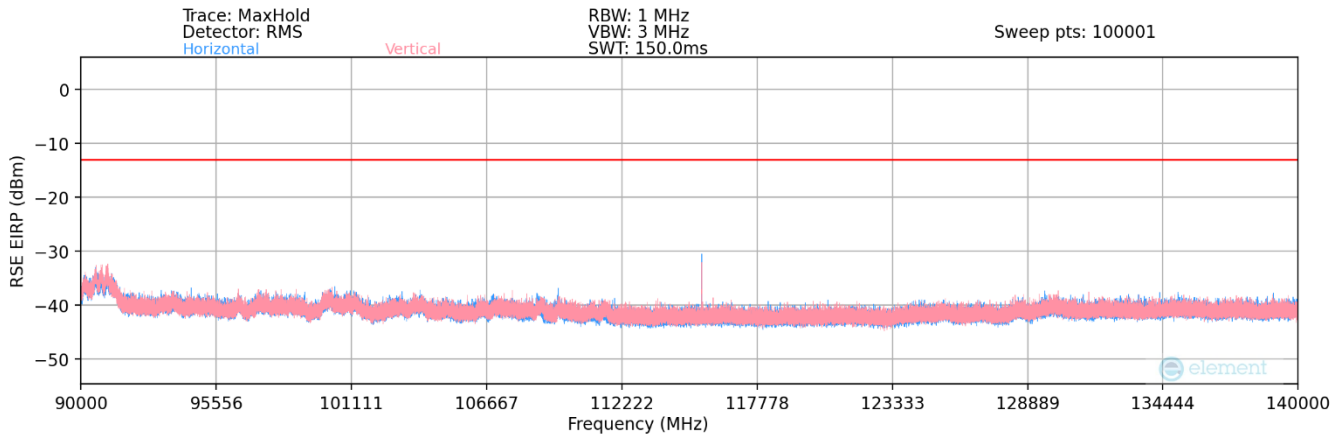
### Notes

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 test distance of 1 meter.

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## 90GHz - 140GHz



**Plot 7-164.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]
111075.00	Low	50	2Tx	QPSK	H	20	189	-45.21	-13.00	-32.21
115501.26	Mid	50	2Tx	QPSK	H	30	178	-32.95	-13.00	-19.95
119927.65	High	50	2Tx	QPSK	H	17	173	-40.79	-13.00	-27.79

**Table 7-72.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 test distance of 1 meter.

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