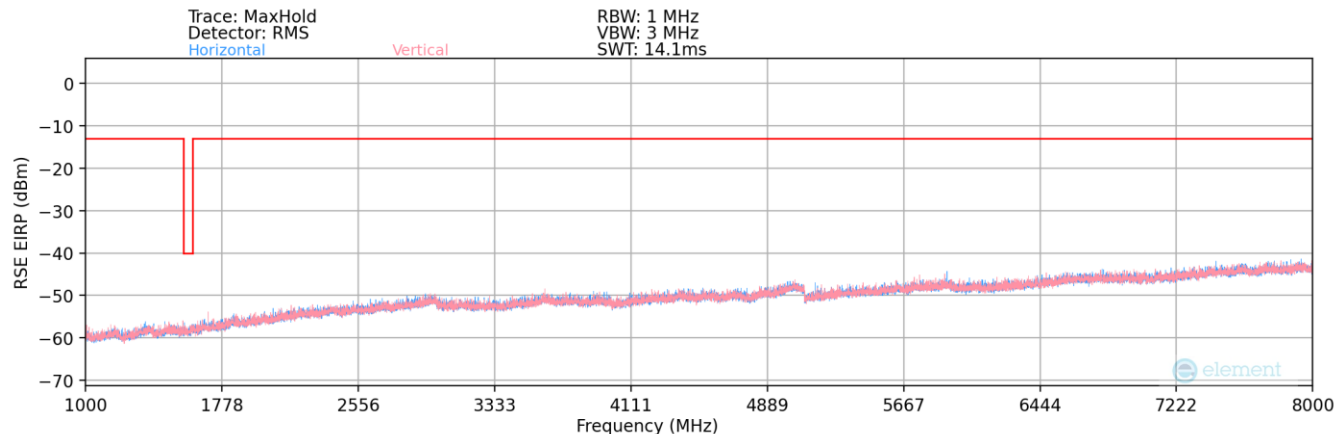
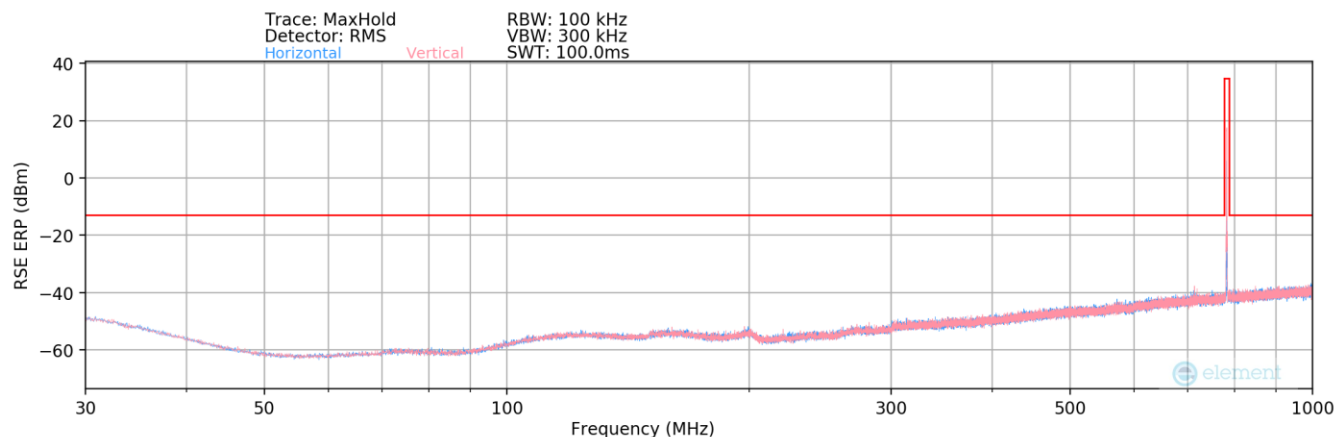


LTE Band 13 – Ant2



Plot 7-300. Radiated Spurious Plot (LTE Band 13) – Ant2



Plot 7-301. Radiated Spurious Plot (LTE Band 13) – Ant2

Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
329.90	V	-	-	-77.70	21.71	51.01	-46.39	-13.00	-33.39
436.30	V	-	-	-77.97	24.56	53.59	-43.82	-13.00	-30.82
606.45	V	-	-	-77.46	27.11	56.65	-40.76	-13.00	-27.76
766.30	V	-	-	-75.94	29.44	60.50	-36.91	-13.00	-23.91
935.40	V	-	-	-76.68	31.59	61.91	-35.50	-13.00	-22.50

Table 7-81. Radiated Spurious Data (LTE Band 13) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT			Approved by: Technical Manager
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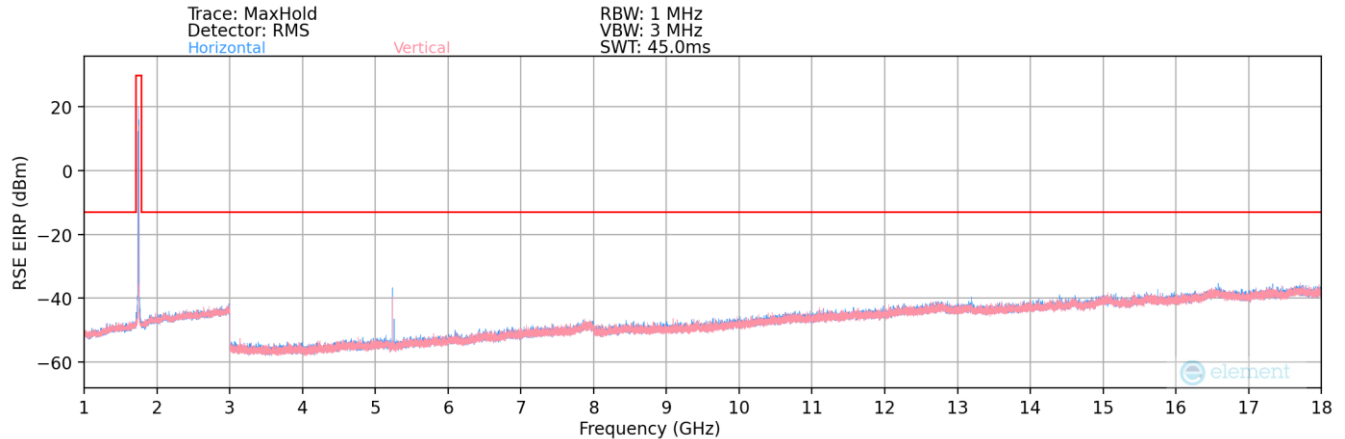
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	V	-	-	-75.22	-6.81	24.97	-70.29	-40.00	-30.29
2346.00	V	216	291	-70.79	-4.05	32.16	-63.10	-13.00	-50.10
3128.00	V	-	-	-74.20	-1.75	31.05	-64.21	-13.00	-51.21
3910.00	V	-	-	-74.54	1.27	33.73	-61.53	-13.00	-48.53

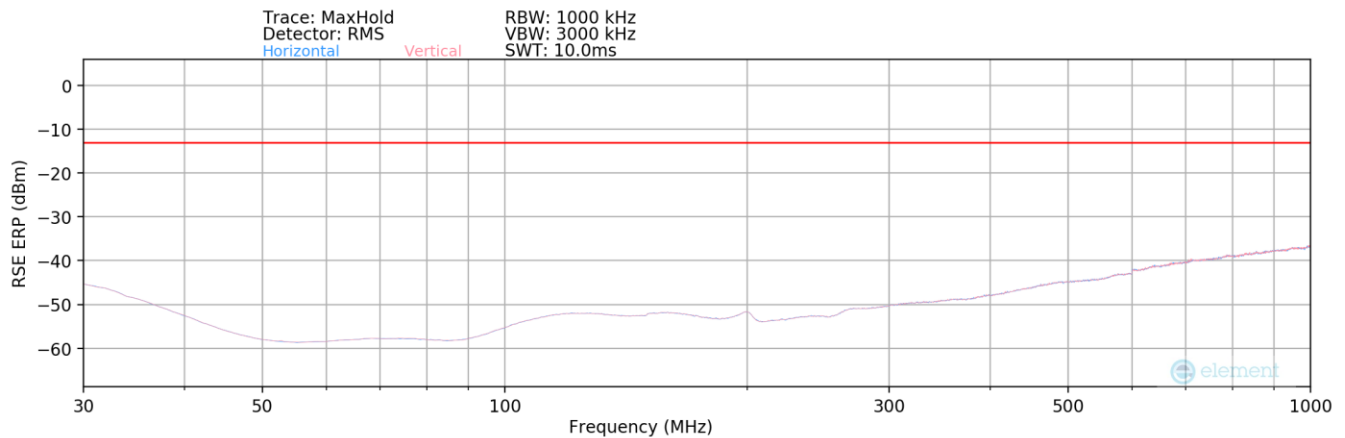
Table 7-82. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – Ant2



Plot 7-302. Radiated Spurious Plot (LTE Band 66/4) – Ant2



Plot 7-303. Radiated Spurious Plot (LTE Band 66/4) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
43.10	H	-	-	-82.41	18.04	42.63	-54.78	-13.00	-41.78
156.14	H	-	-	-81.39	19.95	45.56	-51.85	-13.00	-38.85
302.47	H	-	-	-80.92	21.23	47.31	-50.10	-13.00	-37.10
474.28	H	-	-	-80.26	25.50	52.24	-45.17	-13.00	-32.17
614.29	H	-	-	-78.96	27.12	55.16	-42.25	-13.00	-29.25
766.16	H	-	-	-78.62	29.44	57.82	-39.58	-13.00	-26.58

Table 7-83. Radiated Spurious Data (LTE Band 66/4) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1720
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	H	-	-	-78.77	5.30	33.53	-61.73	-13.00	-48.73
5160.00	H	108	245	-59.12	7.58	55.46	-39.80	-13.00	-26.80
6880.00	H	-	-	-80.30	11.75	38.45	-56.80	-13.00	-43.80
8600.00	H	-	-	-80.84	13.68	39.84	-55.42	-13.00	-42.42
10320.00	H	-	-	-81.19	16.29	42.10	-53.16	-13.00	-40.16

Table 7-84. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	-	-	-78.72	5.13	33.41	-61.85	-13.00	-48.85
5235.00	H	120	239	-59.68	7.29	54.61	-40.65	-13.00	-27.65
6980.00	H	-	-	-80.08	11.11	38.03	-57.23	-13.00	-44.23
8725.00	H	-	-	-80.85	13.48	39.63	-55.63	-13.00	-42.63
10470.00	H	-	-	-81.49	17.01	42.52	-52.74	-13.00	-39.74

Table 7-85. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant2

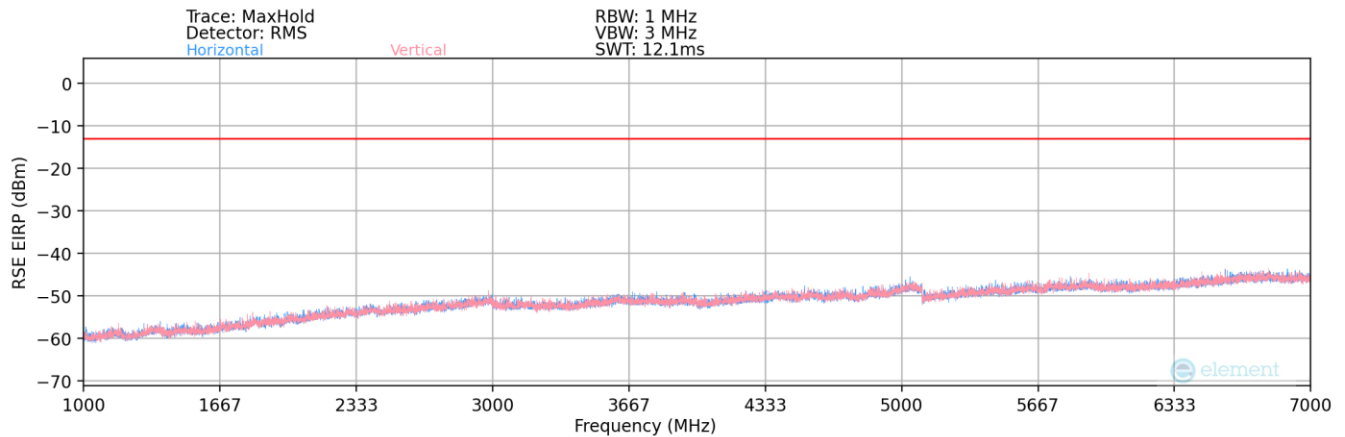
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	H	-	-	-78.48	5.04	33.56	-61.70	-13.00	-48.70
5310.00	H	124	245	-60.53	7.58	54.05	-41.21	-13.00	-28.21
7080.00	H	-	-	-80.09	11.66	38.57	-56.69	-13.00	-43.69
8850.00	H	-	-	-81.22	13.88	39.66	-55.59	-13.00	-42.59
10620.00	H	-	-	-81.31	16.98	42.67	-52.58	-13.00	-39.58

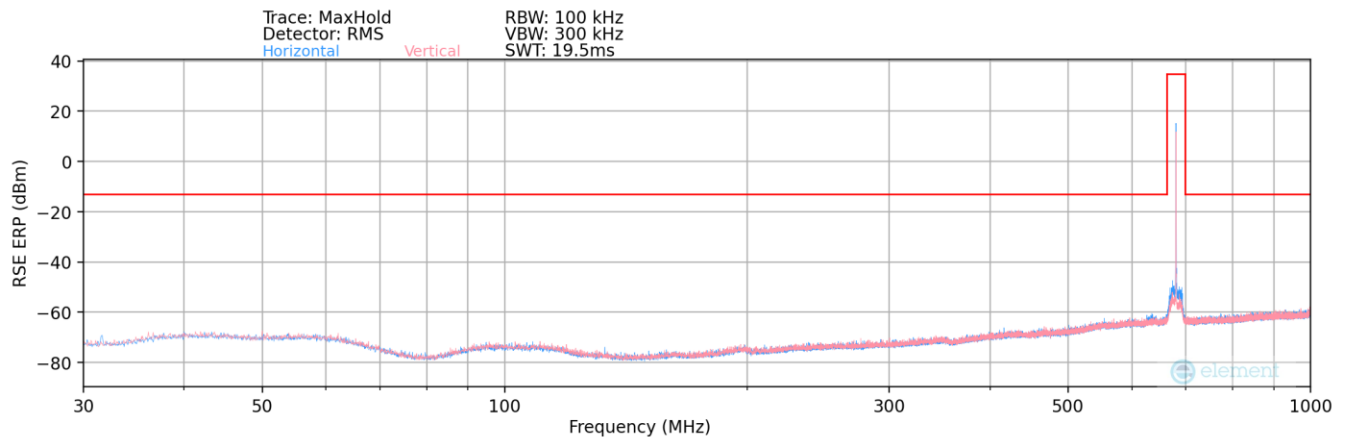
Table 7-86. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71 – Ant2



Plot 7-304. Radiated Spurious Plot (NR Band n70) – Ant2



Plot 7-305. Radiated Spurious Plot (NR Band n70) – Ant

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
140.00	H	-	-	-80.40	-17.03	9.57	-87.84	-13.00	-74.84

Table 7-87. Radiated Spurious Data (NR Band n71) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT						Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 53
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	V	227	309	-75.45	-0.28	31.27	-63.99	-13.00	-50.99
2019.00	V	121	311	-75.14	2.44	34.30	-60.95	-13.00	-47.95
2692.00	V	-	-	-78.72	5.05	33.33	-61.93	-13.00	-48.93
3365.00	V	-	-	-79.54	6.65	34.11	-61.15	-13.00	-48.15
4038.00	V	-	-	-79.97	8.11	35.14	-60.11	-13.00	-47.11

Table 7-88. Radiated Spurious Data (NR Band n71 – Low Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	V	153	319	-74.53	-0.27	32.20	-63.06	-13.00	-50.06
2041.50	V	125	327	-77.73	1.89	31.16	-64.10	-13.00	-51.10
2722.00	V	-	-	-78.97	5.04	33.07	-62.19	-13.00	-49.19
3402.50	V	-	-	-79.60	6.47	33.87	-61.39	-13.00	-48.39
4083.00	V	-	-	-79.93	8.36	35.43	-59.82	-13.00	-46.82

Table 7-89. Radiated Spurious Data (NR Band n71 – Mid Channel) – Ant2

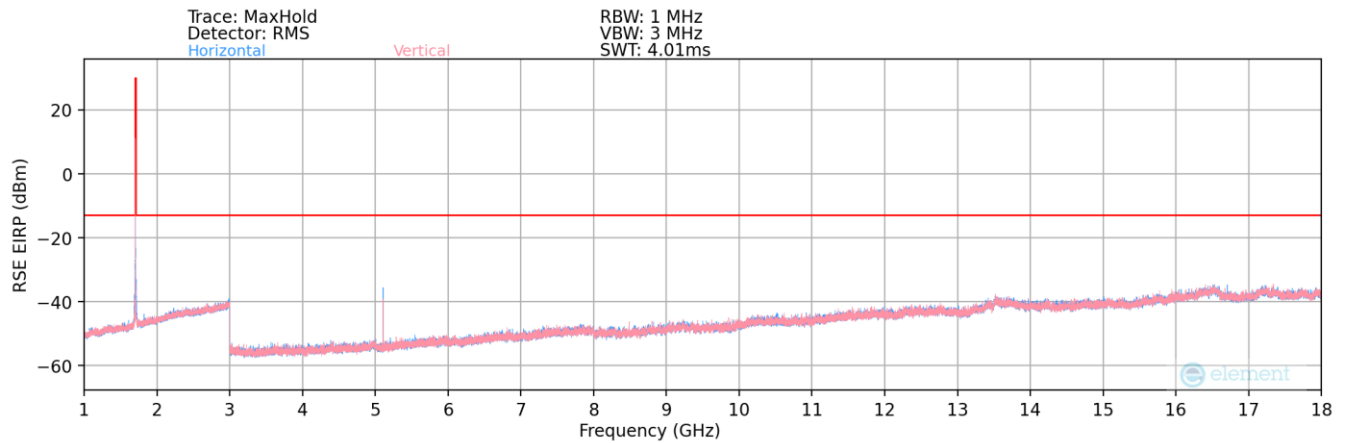
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	V	214	281	-74.10	-0.56	32.34	-62.92	-13.00	-49.92
2064.00	V	188	295	-77.33	1.82	31.49	-63.77	-13.00	-50.77
2752.00	V	-	-	-78.81	4.62	32.81	-62.45	-13.00	-49.45
3440.00	V	-	-	-79.49	6.96	34.47	-60.79	-13.00	-47.79
4128.00	V	-	-	-80.16	8.28	35.12	-60.14	-13.00	-47.14

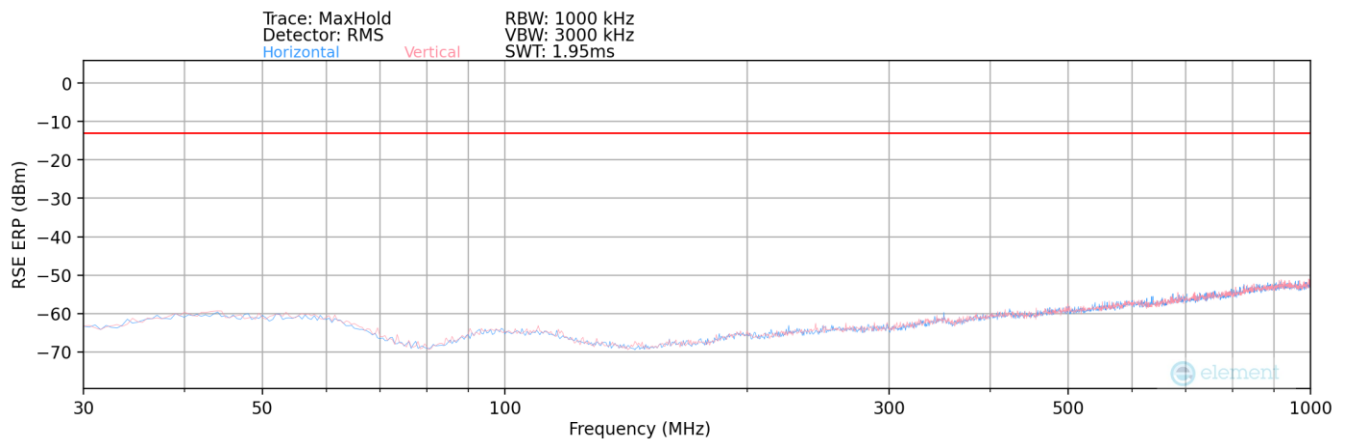
Table 7-90. Radiated Spurious Data (NR Band n71 – High Channel) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70 – Ant2



Plot 7-306. Radiated Spurious Plot (NR Band n70) – Ant2



Plot 7-307. Radiated Spurious Plot (NR Band n70) – Ant2

Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
250.00	H	-	-	-83.35	-11.80	11.85	-85.56	-13.00	-72.56

Table 7-91. Radiated Spurious Data (NR Band n70) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT				Approved by: Technical Manager	
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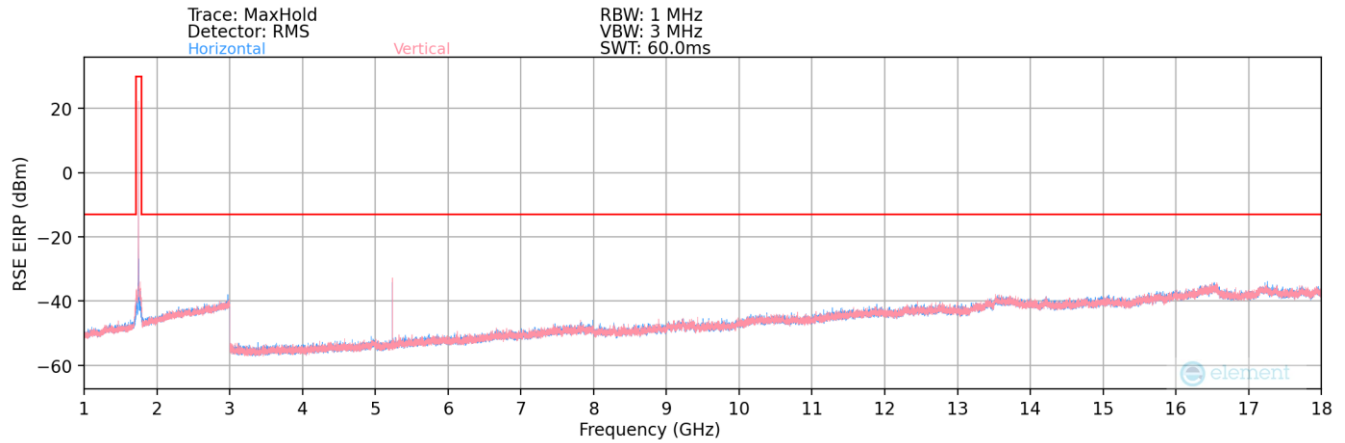
Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	H	-	-	-79.67	7.09	34.42	-60.84	-13.00	-47.84
5107.50	H	110	50	-58.95	10.28	58.33	-36.93	-13.00	-23.93
6810.00	H	-	-	-81.84	13.57	38.73	-56.53	-13.00	-43.53
8512.50	H	-	-	-82.65	16.08	40.43	-54.83	-13.00	-41.83
10215.00	H	-	-	-83.20	19.67	43.47	-51.78	-13.00	-38.78

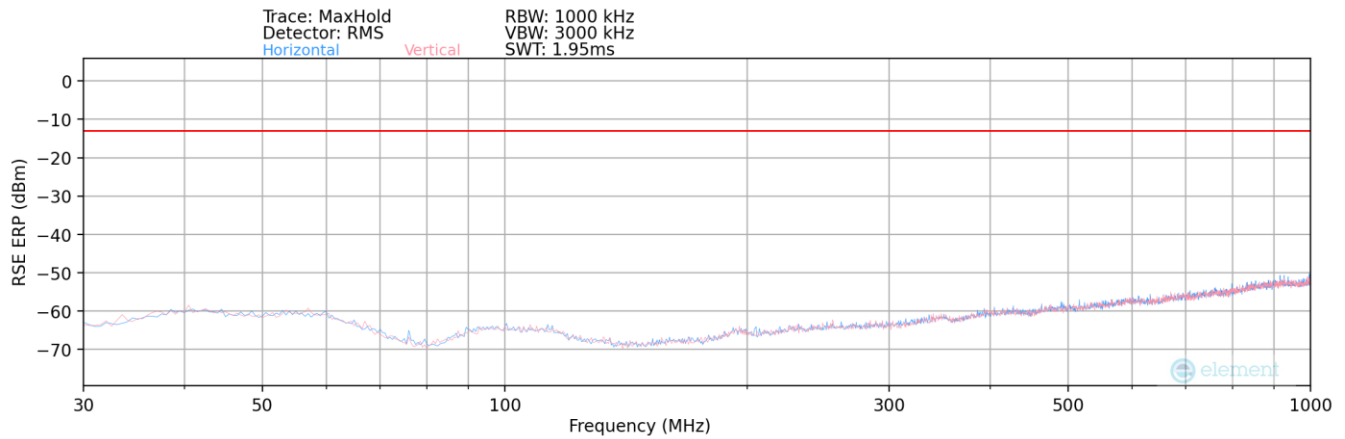
Table 7-92. Radiated Spurious Data (NR Band n70 – Mid Channel) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – Ant2



Plot 7-308. Radiated Spurious Plot (NR Band n66) – Ant2



Plot 7-309. Radiated Spurious Plot (NR Band n66) – Ant2

Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 121
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
150.00	H	-	-	-81.24	-16.75	9.01	-88.40	-13.00	-75.40

Table 7-93. Radiated Spurious Data (NR Band n66) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	45
Frequency (MHz):	1732.5
RB / Offset:	1 / 121
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.00	H	-	-	-79.19	7.02	34.83	-60.43	-13.00	-47.43
5197.50	H	364	246	-59.99	10.25	57.26	-38.00	-13.00	-25.00
6930.00	H	-	-	-81.71	13.67	38.96	-56.30	-13.00	-43.30
8662.50	H	-	-	-82.81	17.15	41.34	-53.92	-13.00	-40.92
10395.00	H	-	-	-82.95	19.80	43.85	-51.41	-13.00	-38.41

Table 7-94. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant2

Bandwidth (MHz):	45
Frequency (MHz):	1745
RB / Offset:	1 / 121
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	-	-	-79.26	7.15	34.89	-60.37	-13.00	-47.37
5235.00	H	105	244	-58.57	10.18	58.61	-36.65	-13.00	-23.65
6980.00	H	-	-	-81.87	13.95	39.08	-56.18	-13.00	-43.18
8725.00	H	-	-	-82.50	16.42	40.92	-54.34	-13.00	-41.34
10470.00	H	-	-	-82.84	19.38	43.54	-51.72	-13.00	-38.72

Table 7-95. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant2

Bandwidth (MHz):	45
Frequency (MHz):	1757.5
RB / Offset:	1 / 121
Detector / Trace Mode:	RMS / Average

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3515.00	H	-	-	-79.75	7.13	34.38	-60.88	-13.00	-47.88
5272.50	H	105	299	-60.44	10.22	56.78	-38.48	-13.00	-25.48
7030.00	H	-	-	-82.09	14.84	39.75	-55.50	-13.00	-42.50
8787.50	H	-	-	-82.60	16.88	41.28	-53.98	-13.00	-40.98
10545.00	H	-	-	-82.87	20.05	44.18	-51.08	-13.00	-38.08

Table 7-96. Radiated Spurious Data (NR Band n66 – High Channel) – Ant2

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

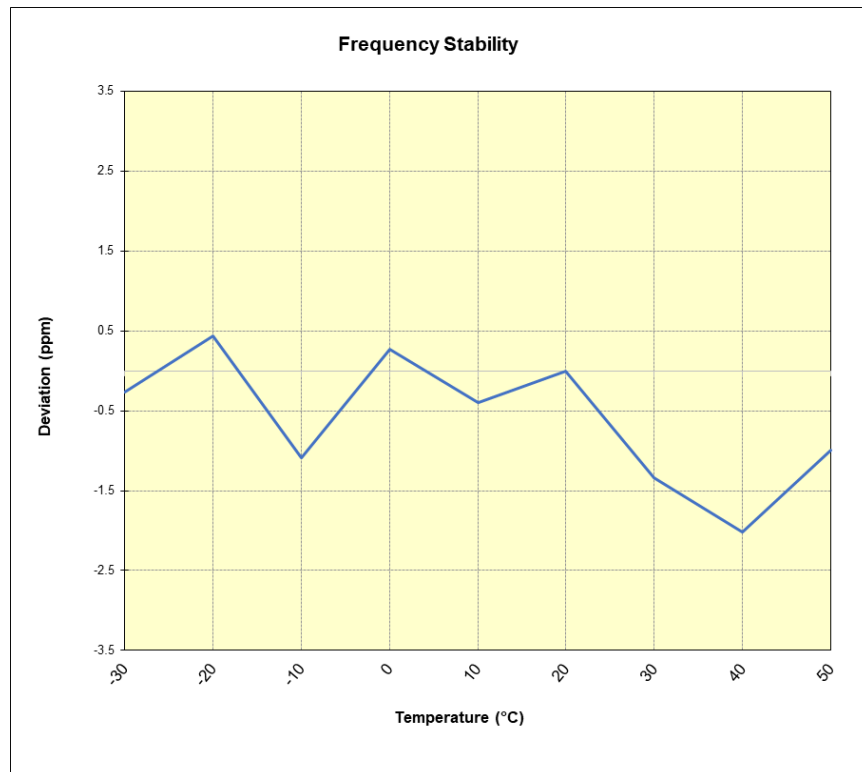
FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS

Operating Frequency (Hz):	1,732,600,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,732,609,148	-464	-0.0000268
		- 20	1,732,610,375	763	0.0000440
		- 10	1,732,607,732	-1,880	-0.0001085
		0	1,732,610,074	462	0.0000267
		+ 10	1,732,608,929	-683	-0.0000394
		+ 20 (Ref)	1,732,609,612	0	0.0000000
		+ 30	1,732,607,288	-2,324	-0.0001341
		+ 40	1,732,606,120	-3,492	-0.0002015
		+ 50	1,732,607,887	-1,725	-0.0000996
Battery Endpoint	3.648	+ 20	1,732,608,214	-1,398	-0.0000807

Table 7-97. WCDMA AWS Frequency Stability Data



Plot 7-310. WCDMA AWS Frequency Stability Chart

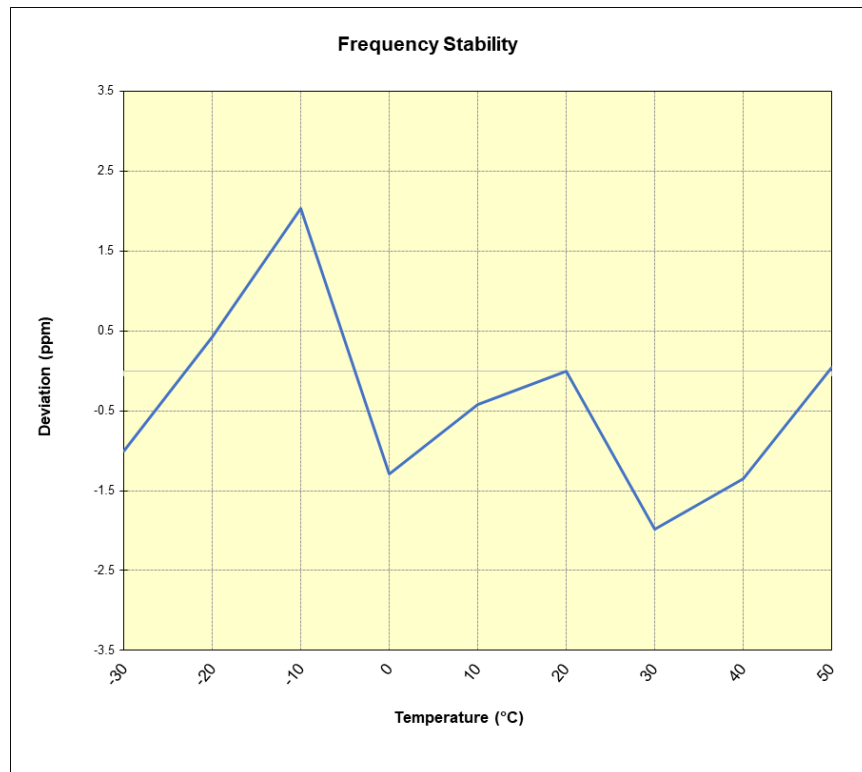
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LTE Band 71

Operating Frequency (Hz):	680,500,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	680,595,598	-683	-0.0001004
		- 20	680,596,572	291	0.0000428
		- 10	680,597,665	1,384	0.0002034
		0	680,595,403	-878	-0.0001290
		+ 10	680,595,990	-291	-0.0000428
		+ 20 (Ref)	680,596,281	0	0.0000000
		+ 30	680,594,934	-1,347	-0.0001979
		+ 40	680,595,365	-916	-0.0001346
		+ 50	680,596,309	28	0.0000041
Battery Endpoint	3.648	+ 20	680,597,824	1,543	0.0002267

Table 7-98. LTE Band 71 Frequency Stability Data



Plot 7-311. LTE Band 71 Frequency Stability Chart

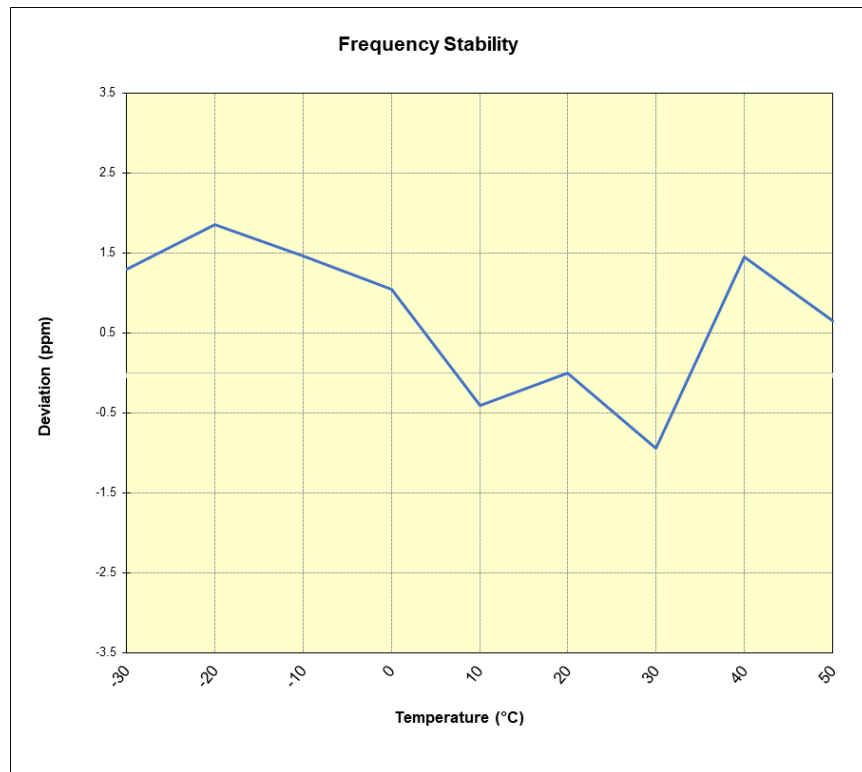
FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12

Operating Frequency (Hz):	707,500,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	$\pm 0.00025\%$ or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	707,594,432	914	0.0001292
		- 20	707,594,826	1,308	0.0001849
		- 10	707,594,554	1,036	0.0001464
		0	707,594,259	741	0.0001047
		+ 10	707,593,231	-287	-0.0000406
		+ 20 (Ref)	707,593,518	0	0.0000000
		+ 30	707,592,849	-669	-0.0000945
		+ 40	707,594,543	1,025	0.0001449
		+ 50	707,593,977	459	0.0000649
Battery Endpoint	3.648	+ 20	707,594,426	908	0.0001283

Table 7-99. LTE Band 12 Frequency Stability Data



Plot 7-312. LTE Band 12 Frequency Stability Chart

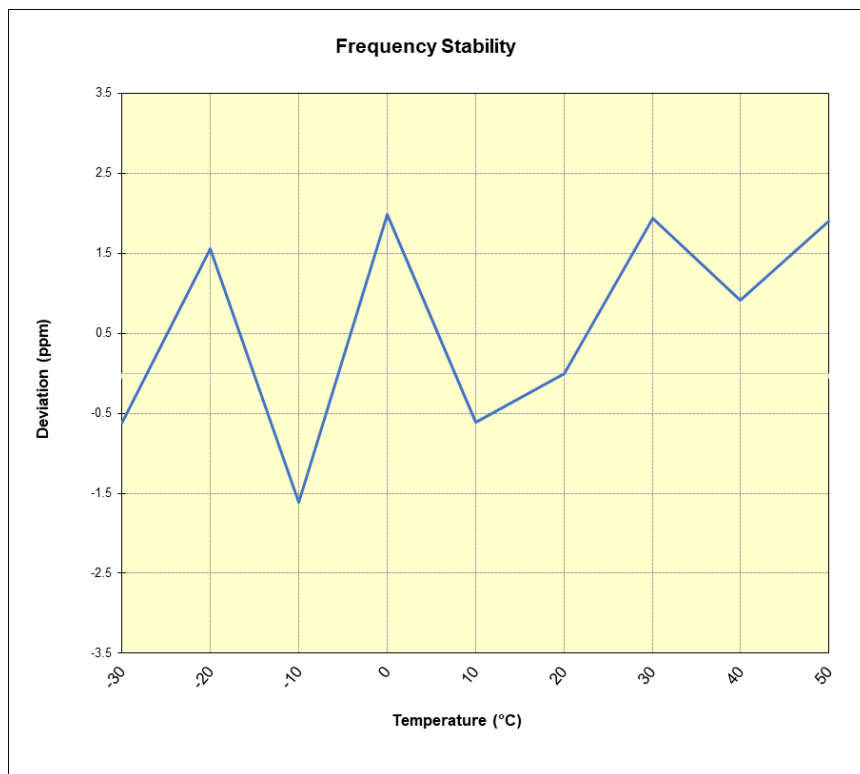
FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13

Operating Frequency (Hz):	782,000,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	782,097,723	-485	-0.0000620
		- 20	782,099,421	1,213	0.0001551
		- 10	782,096,948	-1,260	-0.0001611
		0	782,099,761	1,553	0.0001986
		+ 10	782,097,733	-475	-0.0000607
		+ 20 (Ref)	782,098,208	0	0.0000000
		+ 30	782,099,726	1,518	0.0001941
		+ 40	782,098,917	709	0.0000907
		+ 50	782,099,696	1,488	0.0001903
Battery Endpoint	3.648	+ 20	782,097,271	-937	-0.0001198

Table 7-100. LTE Band 13 Frequency Stability Data



Plot 7-313. LTE Band 13 Frequency Stability Chart

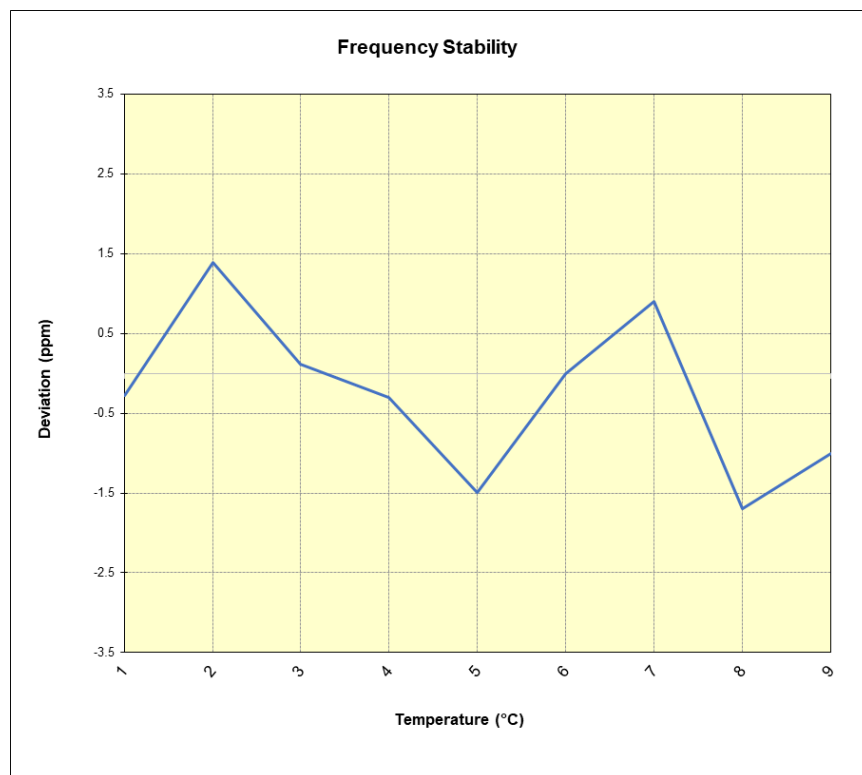
FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4

Operating Frequency (Hz):	1,745,000,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,745,086,268	-484	-0.0000277
		- 20	1,745,089,168	2,416	0.0001384
		- 10	1,745,086,944	192	0.0000110
		0	1,745,086,216	-536	-0.0000307
		+ 10	1,745,084,142	-2,610	-0.0001496
		+ 20 (Ref)	1,745,086,752	0	0.0000000
		+ 30	1,745,088,326	1,574	0.0000902
		+ 40	1,745,083,783	-2,969	-0.0001701
		+ 50	1,745,084,996	-1,756	-0.0001006
Battery Endpoint	3.648	+ 20	1,745,089,508	2,756	0.0001579

Table 7-101. LTE Band 66/4 Frequency Stability Data



Plot 7-314. LTE Band 66/4 Frequency Stability Chart

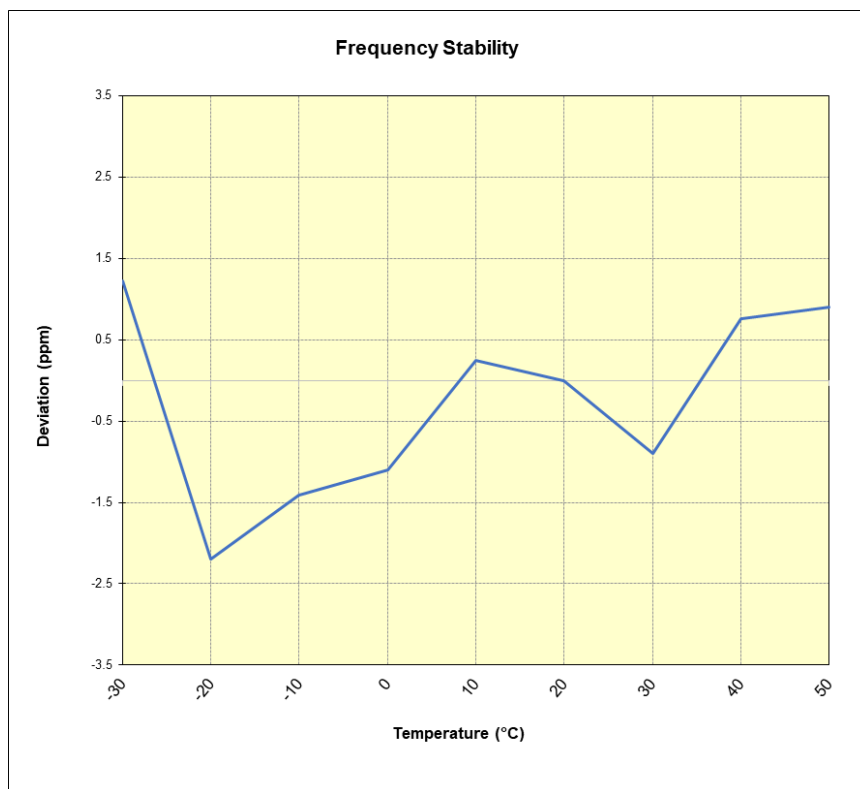
FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71

Operating Frequency (Hz):	680,500,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	680,596,768	832	0.0001222
		- 20	680,594,441	-1,495	-0.0002197
		- 10	680,594,973	-963	-0.0001415
		0	680,595,187	-749	-0.0001101
		+ 10	680,596,103	167	0.0000245
		+ 20 (Ref)	680,595,936	0	0.0000000
		+ 30	680,595,324	-612	-0.0000899
		+ 40	680,596,453	517	0.0000760
		+ 50	680,596,550	614	0.0000902
Battery Endpoint	3.648	+ 20	680,594,782	-1,154	-0.0001696

Table 7-102. NR Band n71 Frequency Stability Data



Plot 7-315. NR Band n71 Frequency Stability Chart

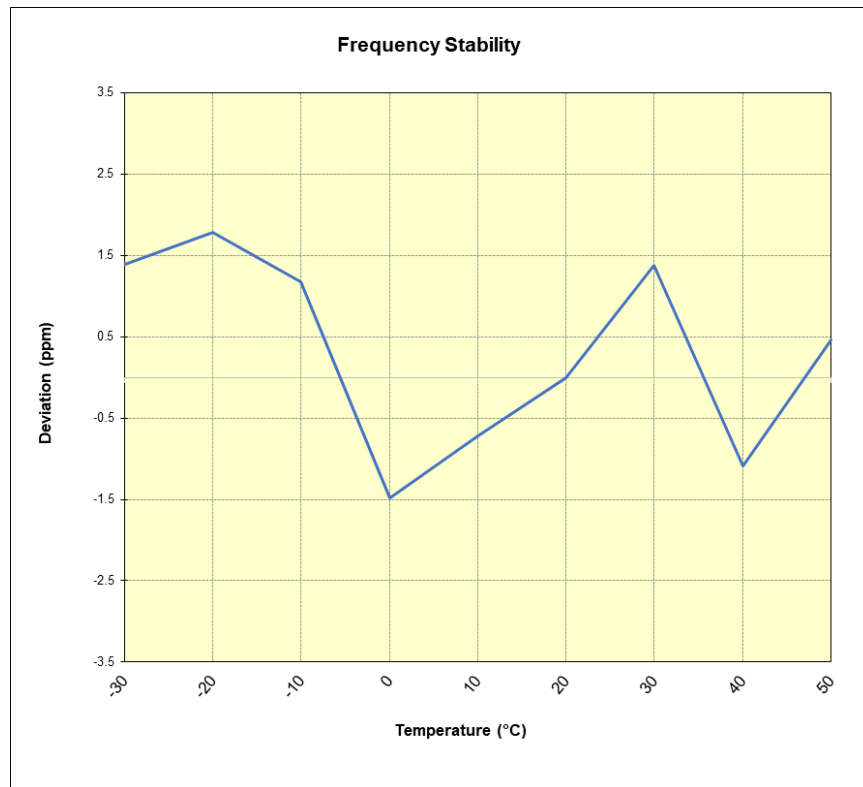
FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70

Operating Frequency (Hz):	1,702,500,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,702,573,070	2,368	0.0001391
		- 20	1,702,573,736	3,034	0.0001782
		- 10	1,702,572,690	1,988	0.0001168
		0	1,702,568,175	-2,527	-0.0001484
		+ 10	1,702,569,473	-1,229	-0.0000722
		+ 20 (Ref)	1,702,570,702	0	0.0000000
		+ 30	1,702,573,040	2,338	0.0001373
		+ 40	1,702,568,850	-1,852	-0.0001088
		+ 50	1,702,571,480	778	0.0000457
Battery Endpoint	3.648	+ 20	1,702,569,438	-1,264	-0.0000742

Table 7-103. NR Band n70 Frequency Stability Data



Plot 7-316. NR Band n70 Frequency Stability Chart

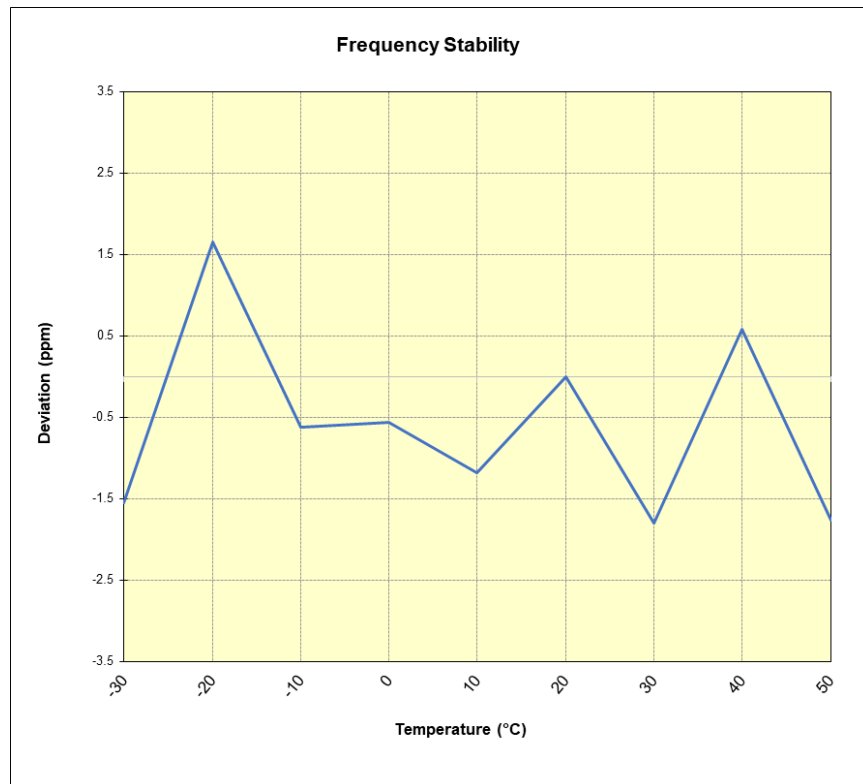
FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66

Operating Frequency (Hz):	1,745,000,000
Ref. Voltage (VDC):	4.446
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.446	- 30	1,745,081,368	-2,691	-0.0001542
		- 20	1,745,086,956	2,897	0.0001660
		- 10	1,745,082,986	-1,073	-0.0000615
		0	1,745,083,086	-973	-0.0000558
		+ 10	1,745,082,015	-2,044	-0.0001171
		+ 20 (Ref)	1,745,084,059	0	0.0000000
		+ 30	1,745,080,921	-3,138	-0.0001798
		+ 40	1,745,085,076	1,017	0.0000583
		+ 50	1,745,080,987	-3,072	-0.0001760
Battery Endpoint	3.648	+ 20	1,745,082,582	-1,477	-0.0000846

Table 7-104. NR Band n66 Frequency Stability Data



Plot 7-317. NR Band n66 Frequency Stability Chart

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMA576U** and **IC: 649E-SMA576W** complies with all the requirements of Part 27 of the FCC rules and RSS-130, RSS-139 of the ISED rules.

- END OF TEST REPORT -

FCC ID: A3LSMA576U IC: 649E-SMA576W	PART 27 RSS-130 & RSS-139 MEASUREMENT REPORT		Approved by: Technical Manager
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