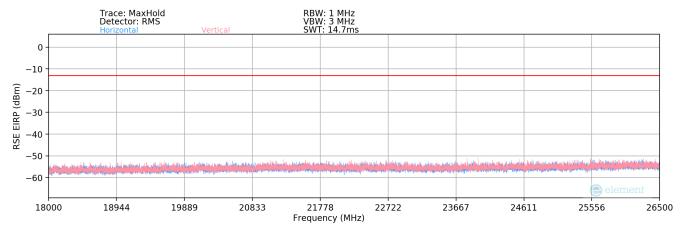
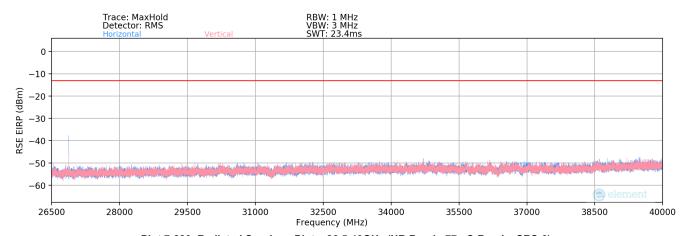


Plot 7-278. Radiated Spurious Plot - 1-18GHz (NR Band n77 - C-Band - SRS-3)



Plot 7-279. Radiated Spurious Plot - 18-26.5GHz (NR Band n77 - C-Band - SRS-3)



Plot 7-280. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - C-Band – SRS-3)

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Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1/136
Mode:	Stand Alone

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]
7500.00	Н	191	237	-68.08	8.29	47.21	-48.05	-13.00	-35.05
11250.00	Н	-	-	-78.19	12.21	41.02	-54.24	-13.00	-41.24
15000.00	Н	-	-	-78.77	15.53	43.76	-51.50	-13.00	-38.50
18750.00	Н	-	1	-55.15	1.83	53.68	-51.12	-13.00	-38.12
22500.00	Н	-	-	-55.97	3.87	54.90	-49.90	-13.00	-36.90
26250.00	Н	150	324	-41.75	4.76	70.01	-34.79	-13.00	-21.79
30000.00	Н	-	-	-55.33	6.48	58.15	-46.65	-13.00	-33.65
33750.00	Н	-	-	-55.29	7.67	59.38	-45.42	-13.00	-32.42

Table 7-49. Radiated Spurious Data - Above 1GHz (NR Band n77 - C-Band - Low Channel - SRS-3)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136

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]
7680.00	Н	178	243	-68.06	7.48	46.42	-48.84	-13.00	-35.84
11520.00	Н	-		-78.50	12.32	40.82	-54.43	-13.00	-41.43
15360.00	Н		•	-78.48	16.02	44.54	-50.72	-13.00	-37.72
19200.00	Н		-	-54.90	2.27	54.37	-50.43	-13.00	-37.43
23040.00	Н		-	-55.91	3.76	54.85	-49.95	-13.00	-36.95
26880.00	Н	150	316	-43.21	4.88	68.67	-36.13	-13.00	-23.13
30720.00	Н	-	1	-55.30	6.53	58.23	-46.57	-13.00	-33.57
34560.00	Н	-	-	-53.78	7.68	60.90	-43.90	-13.00	-30.90

Table 7-50. Radiated Spurious Data – Above 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-3)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136
Mode:	Stand Alone

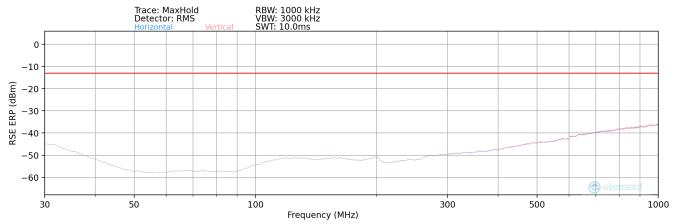
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	Н	167	63	-71.33	8.25	43.92	-51.34	-13.00	-38.34
11790.00	Н	-	-	-78.66	13.24	41.58	-53.68	-13.00	-40.68
15720.00	Н	-	1	-78.75	17.31	45.56	-49.70	-13.00	-36.70
19650.00	Н	-	1	-55.58	2.57	53.99	-50.81	-13.00	-37.81
23580.00	Н	-	-	-56.26	3.80	54.54	-50.26	-13.00	-37.26
27510.00	Н	150	317	-43.46	4.73	68.27	-36.53	-13.00	-23.53
31440.00	Н	-	-	-55.32	6.56	58.24	-46.56	-13.00	-33.56
35370.00	Н	-	-	-55.56	8.42	59.86	-44.94	-13.00	-31.94

Table 7-51. Radiated Spurious Data – Above 1GHz (NR Band n77 - C-Band – High Channel – SRS-3)

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NR Band n77 (PC2) - C-Band - SRS-4



Plot 7-281. Radiated Spurious Plot - 30MHz-1GHz (NR Band n77 - C-Band - SRS-4)

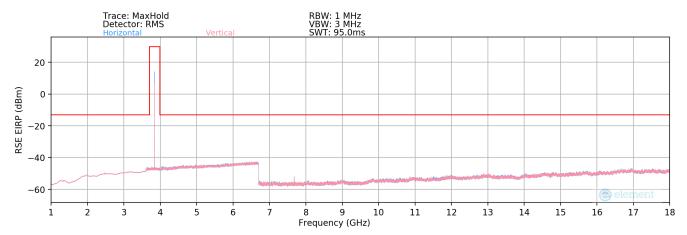
Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136

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]
50.00	Н	-	-	-64.08	14.60	57.52	-39.89	-13.00	-26.89
200.00	Н	-	-	-68.64	20.30	58.66	-38.75	-13.00	-25.75
500.00	Н			-69.74	25.99	63.25	-34.16	-13.00	-21.16

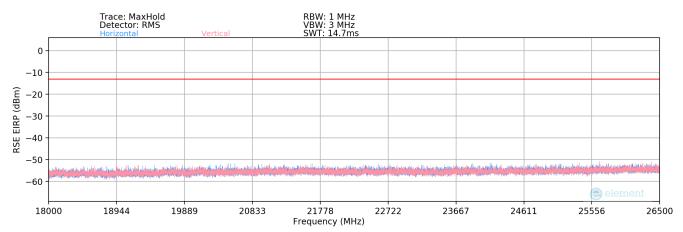
Table 7-52. Radiated Spurious Data - Below 1GHz (NR Band n77 - C-Band - Mid Channel - SRS-4)

FCC ID: A3LSMS911U		Approved by: Technical Manager	
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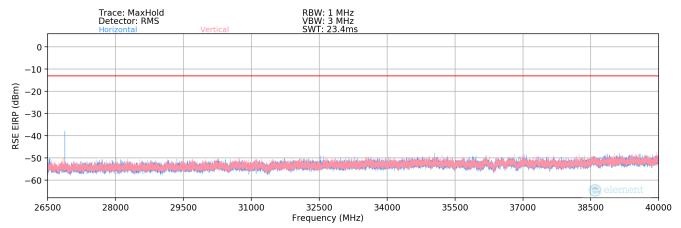




Plot 7-282. Radiated Spurious Plot - 1-18GHz (NR Band n77 - C-Band - SRS-4)



Plot 7-283. Radiated Spurious Plot - 18-26.5GHz (NR Band n77 - C-Band - SRS-4)



Plot 7-284. Radiated Spurious Plot - 26.5-40GHz (NR Band n77 - C-Band - SRS-4)

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Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1/136
Mode:	Stand Alone

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]
7500.00	Н	165	73	-70.68	8.29	44.61	-50.65	-13.00	-37.65
11250.00	Н	183	313	-75.85	12.21	43.36	-51.90	-13.00	-38.90
15000.00	Н	-	-	-78.90	15.53	43.63	-51.63	-13.00	-38.63
18750.00	Н	-	1	-55.58	1.83	53.25	-51.55	-13.00	-38.55
22500.00	Н	-	-	-56.28	3.87	54.59	-50.21	-13.00	-37.21
26250.00	Н	150	324	-38.04	4.76	73.72	-31.08	-13.00	-18.08
30000.00	Н	-	-	-55.11	6.48	58.37	-46.43	-13.00	-33.43
33750.00	Н	-	-	-55.62	7.67	59.05	-45.75	-13.00	-32.75

Table 7-53. Radiated Spurious Data - Above 1GHz (NR Band n77 - C-Band - Low Channel - SRS-4)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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]
7680.00	Н	176	44	-69.77	7.48	44.71	-50.55	-13.00	-37.55
11520.00	Н	-	-	-77.97	12.32	41.35	-53.90	-13.00	-40.90
15360.00	Н	-	1	-78.42	16.02	44.60	-50.66	-13.00	-37.66
19200.00	Н	-	1	-56.12	2.27	53.15	-51.65	-13.00	-38.65
23040.00	Н	-	-	-55.55	3.76	55.21	-49.59	-13.00	-36.59
26880.00	Н	150	317	-40.27	4.88	71.61	-33.19	-13.00	-20.19
30720.00	Н	-	1	-55.84	6.53	57.69	-47.11	-13.00	-34.11
34560.00	Н	-	-	-54.30	7.68	60.38	-44.42	-13.00	-31.42

Table 7-54. Radiated Spurious Data - Above 1GHz (NR Band n77 - C-Band - Mid Channel - SRS-4)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136
Mode:	Stand Alone

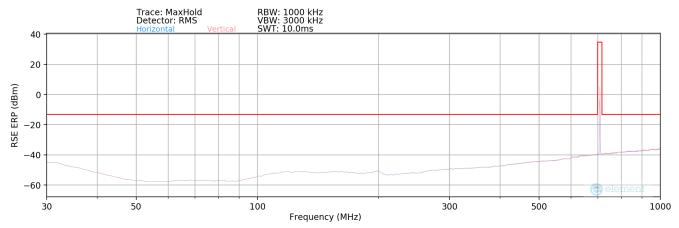
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	Н	152	352	-69.96	8.25	45.29	-49.97	-13.00	-36.97
11790.00	Н	-	-	-78.22	13.24	42.02	-53.24	-13.00	-40.24
15720.00	Н	1	1	-78.84	17.31	45.47	-49.79	-13.00	-36.79
19650.00	Н	-	-	-55.99	2.57	53.58	-51.22	-13.00	-38.22
23580.00	Н	-	-	-56.18	3.80	54.62	-50.18	-13.00	-37.18
27510.00	Н	150	317	-38.68	4.73	73.05	-31.75	-13.00	-18.75
31440.00	Н	-	-	-55.57	6.56	57.99	-46.81	-13.00	-33.81
35370.00	Н	-	-	-55.52	8.42	59.90	-44.90	-13.00	-31.90

Table 7-55. Radiated Spurious Data - Above 1GHz (NR Band n77 - C-Band - High Channel - SRS-4)

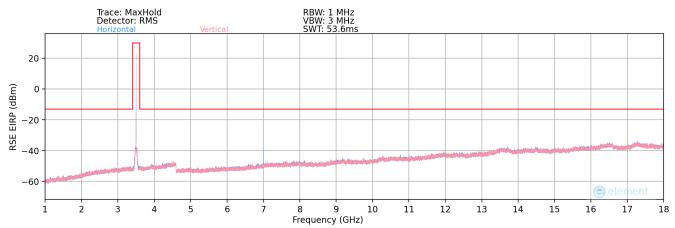
FCC ID: A3LSMS911U		Approved by: Technical Manager	
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EN-DC - n77 (PC2) - DoD Band + B12



Plot 7-285. Radiated Spurious Plot - 30MHz-1GHz (NR Band n77 - DoD Band + EN-DC Anchor B12)



Plot 7-286. Radiated Spurious Plot - 1-18GHz (NR Band n77 - DoD Band + EN-DC Anchor B12)

Bandwidth (MHz):	100 & 10
Frequency (MHz):	3500.01 & 707.5
RB / Offset:	1/136 & 1/25
Mode:	EN-DC
Anchor Band:	LTE B12

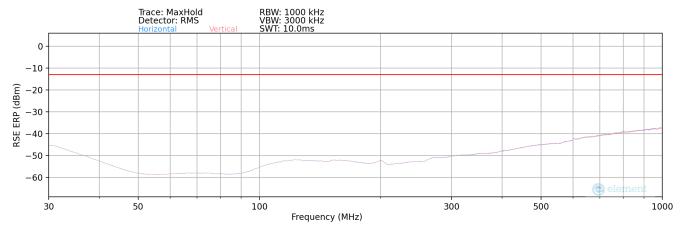
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
670.00	Н	-		-84.21	28.43	51.22	-44.04	-13.00	-31.04
7000.02	Н	162	336	-70.55	14.98	51.43	-43.83	-13.00	-30.83
11170.04	Н	-	1	-75.10	21.01	52.91	-42.35	-13.00	-29.35
13962.55	Н	-	1	-76.95	25.84	55.89	-39.36	-13.00	-26.36
14707.54	H		-	-77.11	27.22	57.11	-47.69	-13.00	-34.69

Table 7-56. Radiated Spurious Data (NR Band n77 - DoD Band + EN-DC Anchor B12)

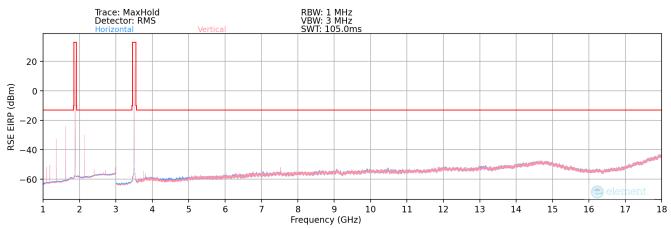
FCC ID: A3LSMS911U		Approved by: Technical Manager	
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EN-DC - n77 (PC2) - DoD Band + B2



Plot 7-287. Radiated Spurious Plot - 30MHz-1GHz (NR Band n77 - DoD Band + EN-DC Anchor B2)



Plot 7-288. Radiated Spurious Plot - 1-18GHz (NR Band n77 - DoD Band + EN-DC Anchor B2)

Bandwidth (MHz):	100 & 20
Frequency (MHz):	3500.01 & 1880
RB / Offset:	1 / 136 & 1 / 50
Mode:	EN-DC
Anchor Band:	LTE B2

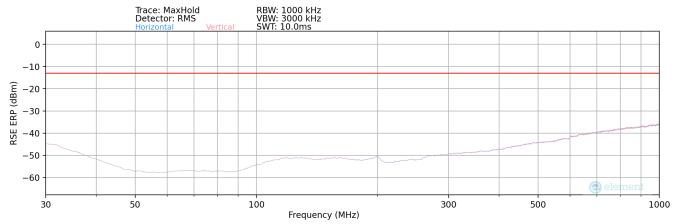
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
260.00	Н	-	-	-85.38	19.48	41.10	-54.16	-13.00	-41.16
1185.00	Н	237	354	-41.48	-2.35	63.17	-32.09	-13.00	-19.09
1360.00	Н	148	10	-45.52	-2.05	59.43	-35.83	-13.00	-22.83
1620.00	Н	208	353	-31.65	-0.95	74.40	-20.86	-13.00	-7.86
2140.00	Н	148	15	-44.12	1.70	64.58	-40.22	-13.00	-27.22
3760.00	Н	358	27	-67.30	-1.44	38.26	-66.54	-13.00	-53.54
5380.00	Н	-	-	-75.13	1.27	33.14	-71.66	-13.00	-58.66
7000.00	Н	-	-	-74.76	3.85	36.09	-68.71	-13.00	-55.71

Table 7-57. Radiated Spurious Data (NR Band n77 - DoD Band + EN-DC Anchor B2)

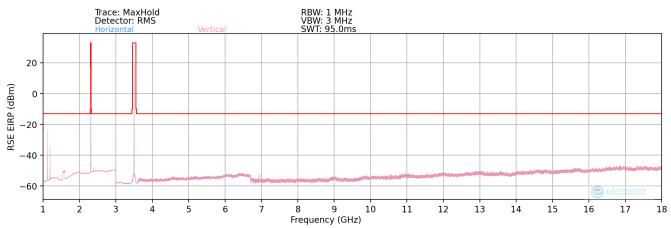
FCC ID: A3LSMS911U		Approved by: Technical Manager		
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EN-DC - n77 (PC2) - DoD Band + B30



Plot 7-289. Radiated Spurious Plot - 30MHz-1GHz (NR Band n77 - DoD Band + EN-DC Anchor B30)



Plot 7-290. Radiated Spurious Plot - 1-18GHz (NR Band n77 - DoD Band + EN-DC Anchor B30)

Bandwidth (MHz):	100 & 10
Frequency (MHz):	3500.01 & 2310
RB / Offset:	1/136 & 1/25
Mode:	EN-DC
Anchor Band:	LTE B30

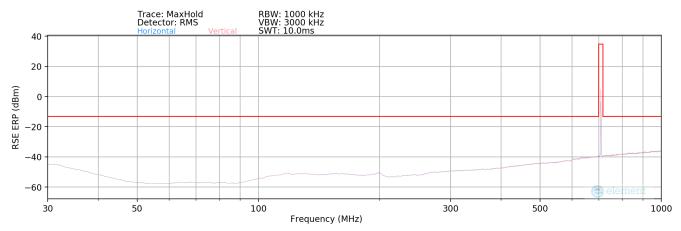
	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
	140.00	Н	-	-	-84.21	19.67	42.46	-52.80	-13.00	-39.80
Г	1120.00	Н	166	358	-36.50	4.24	74.74	-20.51	-13.00	-7.51
	1190.00	Н	226	349	-50.25	5.19	61.94	-33.32	-13.00	-20.32
	2380.00	Н	162	9	-69.74	10.19	47.45	-47.81	-13.00	-34.81
	3430.00	Н	-	-	-76.84	2.90	33.06	-71.74	-13.00	-58.74
Ī	4620.00	Н	-	-	-78.14	4.56	33.42	-71.38	-13.00	-58.38
Г	5810.00	Н	-	-	-79.72	5.48	32.76	-72.04	-13.00	-59.04

Table 7-58. Radiated Spurious Data (NR Band n77 - DoD Band + EN-DC Anchor B30)

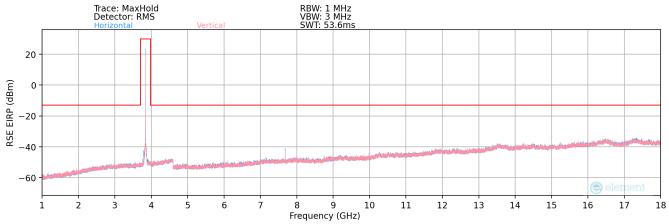
FCC ID: A3LSMS911U		Approved by: Technical Manager	
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EN-DC - n77 (PC2) - C-Band + B12



Plot 7-291. Radiated Spurious Plot - 30MHz-1GHz (NR Band n77 - C-Band + EN-DC Anchor B12)



Plot 7-292. Radiated Spurious Plot - 1-18GHz (NR Band n77 - C-Band + EN-DC Anchor B12)

Bandwidth (MHz):	100 & 10
Frequency (MHz):	3840 & 707.5
RB / Offset:	1/136 & 1/25
Mode:	EN-DC
Anchor Band:	LTE B12

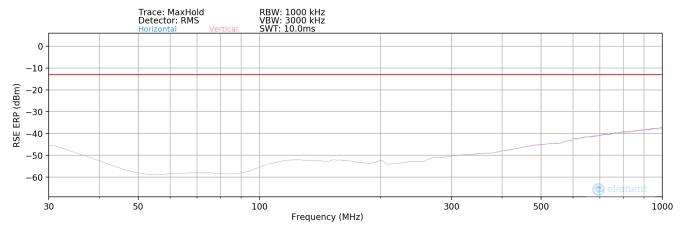
	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
Г	405.00	Н	-	-	-84.15	23.40	46.25	-49.01	-13.00	-36.01
Г	7680.00	Н	164	347	-72.37	16.30	50.93	-44.33	-13.00	-31.33
	10105.00	Н	-	-	-75.69	19.21	50.52	-44.74	-13.00	-31.74
Г	11925.00	Н	-	-	-76.19	22.54	53.35	-51.45	-13.00	-38.45
	15765.00	H		-	-76.35	28.40	59.05	-45.75	-13.00	-32.75

Table 7-59. Radiated Spurious Data (NR Band n77 - C-Band + EN-DC Anchor B12)

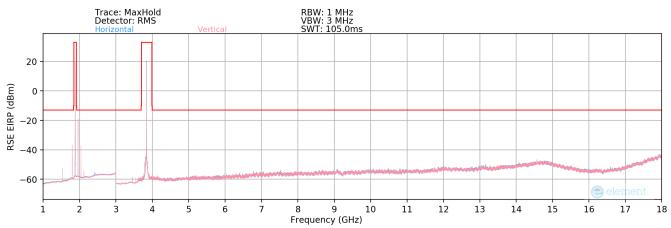
FCC ID: A3LSMS911U		Approved by: Technical Manager		
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EN-DC - n77 (PC2) - C-Band + B2



Plot 7-293. Radiated Spurious Plot - 30MHz-1GHz (NR Band n77 - C-Band + EN-DC Anchor B2)



Plot 7-294. Radiated Spurious Plot - 1-18GHz (NR Band n77 - C-Band + EN-DC Anchor B2)

Bandwidth (MHz):	100 & 20
Frequency (MHz):	3840 & 1880
RB / Offset:	1 / 136 & 1 / 50
Mode:	EN-DC
Anchor Band:	LTE B2

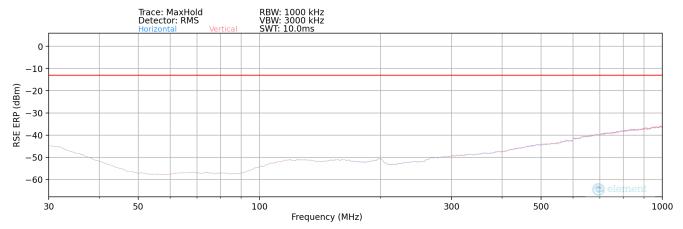
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
160.00	Н	-	-	-85.45	19.61	41.16	-54.10	-13.00	-41.10
1525.00	Н	174	11	-39.99	-1.44	65.57	-29.69	-13.00	-16.69
1960.00	Н	169	357	-33.50	1.79	75.29	-19.97	-13.00	-6.97
2040.00	Н	142	13	-43.39	1.42	65.03	-39.77	-13.00	-26.77
3760.00	Н	205	332	-68.63	-1.44	36.93	-67.87	-13.00	-54.87
4080.00	Н	-	-	-75.91	-1.36	29.73	-75.07	-13.00	-62.07
5640.00	Н	,	,	-74.22	0.59	33.37	-71.43	-13.00	-58.43
7520.00	Н	-	-	-75.55	4.19	35.64	-69.16	-13.00	-56.16

Table 7-60. Radiated Spurious Data (NR Band n77 - C-Band + EN-DC Anchor B2)

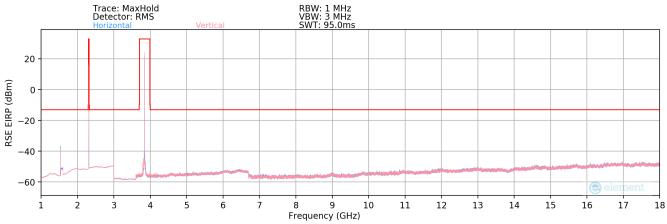
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EN-DC - n77 (PC2) - C-Band + B30



Plot 7-295. Radiated Spurious Plot - 30MHz-1GHz (NR Band n77 - C-Band + EN-DC Anchor B30)



Plot 7-296. Radiated Spurious Plot - 1-18GHz (NR Band n77 - C-Band + EN-DC Anchor B30)

Bandwidth (MHz):	100 & 10
Frequency (MHz):	3840 & 2310
RB / Offset:	1 / 136 & 1 / 25
Mode:	EN-DC
Anchor Band:	LTE B30

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]
750.00	Н	ı		-84.05	29.67	52.62	-42.64	-13.00	-29.64
1530.00	Н	179	358	-47.60	5.09	64.49	-30.77	-13.00	-17.77
3060.00	Н		•	-77.39	3.18	32.79	-62.47	-13.00	-49.47
4620.00	Н	ı	1	-77.95	4.56	33.61	-71.19	-13.00	-58.19
6150.00	Н	1	1	-78.98	6.75	34.77	-70.03	-13.00	-57.03

Table 7-61. Radiated Spurious Data (NR Band n77 - C-Band + EN-DC Anchor B30)

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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).
- 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

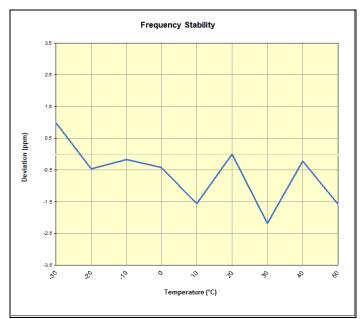
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NR Band n77 PC2 - SRS1

NR Band n77 C-Band						
	Operating F	requency (Hz):	3,840,000,000			
	Ref.	Voltage (VDC):	4.34			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)	
		- 30	3,839,996,851	3,789	0.0000987	
		- 20	3,839,991,273	-1,790	-0.0000466	
		- 10	3,839,992,416	-646	-0.0000168	
		0	3,839,991,476	-1,586	-0.0000413	
100 %	4.34	+ 10	3,839,987,070	-5,993	-0.0001561	
		+ 20 (Ref)	3,839,993,062	0	0.0000000	
		+ 30	3,839,984,705	-8,357	-0.0002176	
		+ 40	3,839,992,221	-841	-0.0000219	
		+ 50	3,839,986,974	-6,088	-0.0001585	
Battery Endpoint	3.71	+ 20	3,839,988,802	-4,260	-0.0001109	

Table 7-62. NR Band n77 (C-Band) Frequency Stability Data



Plot 7-297. NR Band n77 (C-Band) Frequency Stability Chart

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CONCLUSION 8.0

The data collected relate only to the item(s) tested and show that the Samsung Portable Handset FCC ID: A3LSMS911U complies with all the requirements of Part 27 of the FCC rules.

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