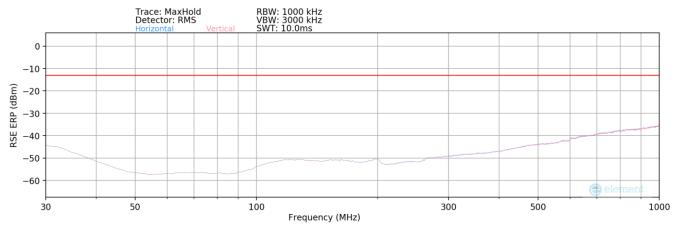
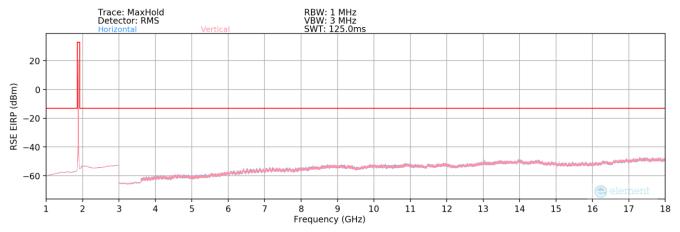


## LTE Band 25/2 - Ant1



Plot 7-69. Radiated Spurious Plot (LTE Band 25/2 - Ant1)



Plot 7-70. Radiated Spurious Plot (LTE Band 25/2 - Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1/50
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
106.08	Н	-	-	-83.53	18.81	42.28	-55.13	-13.00	-42.13
227.56	Н	-		-83.44	18.35	41.91	-55.50	-13.00	-42.50
501.12	Н	-	-	-83.37	25.96	49.59	-47.82	-13.00	-34.82

Table 7-26. Radiated Spurious Data (LTE Band 25/2 - Ant1)

FCC ID: A3LSMA356U		PART 24 MEASUREMENT REPORT			
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Bandwidth (MHz):	20
Frequency (MHz):	1860
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]
3720.00	Н	-	-	-77.75	1.19	30.44	-64.82	-13.00	-51.82
5580.00	Н	-	-	-77.86	4.45	33.59	-61.66	-13.00	-48.66
7440.00	Н	171	321	-75.49	9.10	40.61	-54.65	-13.00	-41.65
9300.00	Н	-	-	-78.70	11.45	39.75	-55.51	-13.00	-42.51
11160.00	Н	-	-	-79.40	12.39	39.99	-55.27	-13.00	-42.27
13020.00	Н	-	-	-79.81	14.54	41.73	-53.53	-13.00	-40.53

Table 7-27. Radiated Spurious Data (LTE Band 25/2 - Low Channel - Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.00	Н	-	-	-77.50	1.07	30.57	-64.69	-13.00	-51.69
5647.50	Н	-	-	-77.66	4.60	33.94	-61.31	-13.00	-48.31
7530.00	Н	139	312	-76.17	9.20	40.03	-55.23	-13.00	-42.23
9412.50	Н	-	-	-79.75	12.18	39.43	-55.83	-13.00	-42.83
11295.00	Н	-	-	-79.90	12.86	39.96	-55.30	-13.00	-42.30
13177.50	Н	-	-	-79.97	14.56	41.59	-53.67	-13.00	-40.67

Table 7-28. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

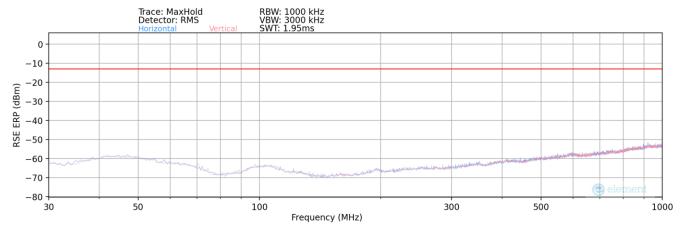
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	Н	-	-	-77.24	1.13	30.89	-64.37	-13.00	-51.37
5715.00	Н	-	-	-77.83	4.60	33.77	-61.49	-13.00	-48.49
7620.00	Н	300	27	-73.55	9.53	42.98	-52.28	-13.00	-39.28
9525.00	Н	-	-	-79.73	11.90	39.17	-56.09	-13.00	-43.09
11430.00	Н	-	-	-79.99	13.02	40.03	-55.23	-13.00	-42.23
13335.00	Н	-	-	-79.98	14.85	41.87	-53.39	-13.00	-40.39

Table 7-29. Radiated Spurious Data (LTE Band 25/2 - High Channel - Ant1)

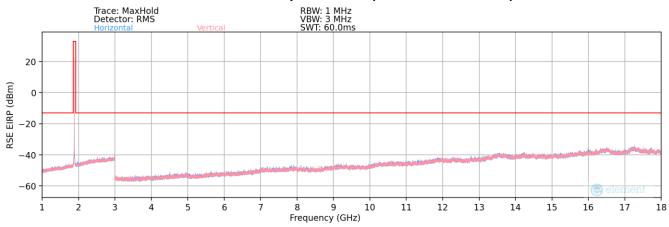
FCC ID: A3LSMA356U		Approved by: Technical Manager		
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## **LTE Band 25/2 - Ant2**



Plot 7-71. Radiated Spurious Plot (LTE Band 25/2 - Ant2)



Plot 7-72. Radiated Spurious Plot (LTE Band 25/2 - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
77.50	Н	-	-	-67.97	-18.42	20.61	-76.79	-13.00	-63.79
126.07	Н	-	-	-70.21	-16.21	20.58	-76.83	-13.00	-63.83
225.92	Н	-	-	-72.74	-12.92	21.34	-76.06	-13.00	-63.06

Table 7-30. Radiated Spurious Data (LTE Band 25/2 - Ant2)

FCC ID: A3LSMA356U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager	
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Bandwidth (MHz):	20
Frequency (MHz):	1860
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]
3720.00	Н	-	-	-77.79	7.54	36.75	-58.51	-13.00	-45.51
5580.00	Н	-	-	-81.43	11.46	37.03	-58.23	-13.00	-45.23
7440.00	Н	_	-	-81.92	15.31	40.39	-54.86	-13.00	-41.86

Table 7-31. Radiated Spurious Data (LTE Band 25/2 - Low Channel - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
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]
3765.00	Н	-	-	-79.81	7.78	34.97	-60.29	-13.00	-47.29
5647.50	Н	-	-	-81.43	11.41	36.98	-58.28	-13.00	-45.28
7530.00	Н	-	-	-82.19	15.65	40.46	-54.80	-13.00	-41.80

Table 7-32. Radiated Spurious Data (LTE Band 25/2 - Mid Channel - Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

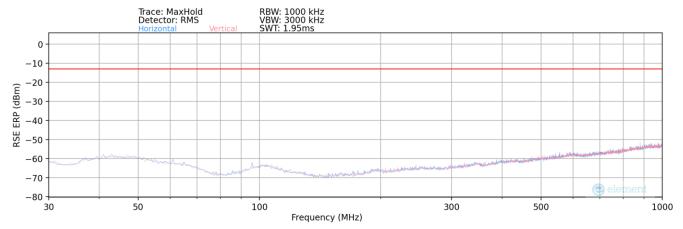
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	Н	-	-	-80.39	8.01	34.62	-60.64	-13.00	-47.64
5715.00	Н	-	-	-81.38	11.36	36.98	-58.28	-13.00	-45.28
7620.00	Н	-	-	-82.31	15.89	40.58	-54.68	-13.00	-41.68

Table 7-33. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant2)

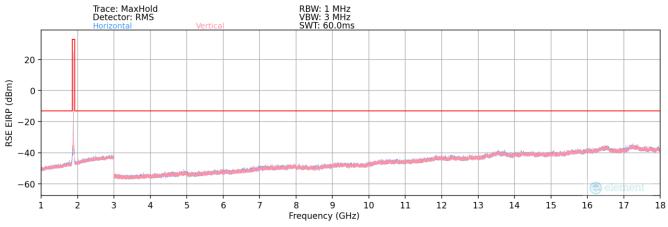
FCC ID: A3LSMA356U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
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### NR Band n25/2 - Ant1



Plot 7-73. Radiated Spurious Plot (NR Band n25/2 - Ant1)



Plot 7-74. Radiated Spurious Plot (NR Band n25/2 - Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	1895
RB / Offset:	1 / 108
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
76.02	V	-	-	-68.27	-18.04	20.69	-76.71	-13.00	-63.71
230.86	V	-	1	-72.51	-12.65	21.84	-75.57	-13.00	-62.57
480.07	V	-	1	-75.72	-7.11	24.17	-73.23	-13.00	-60.23

Table 7-34. Radiated Spurious Data (NR Band n25/2 - Ant1)

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Bandwidth (MHz):	40
Frequency (MHz):	1870
RB / Offset:	1 / 108
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]
3740.00	V	-	-	-79.92	7.51	34.59	-60.67	-13.00	-47.67
5610.00	V	105	70	-75.75	11.34	42.59	-52.67	-13.00	-39.67
7480.00	V	171	304	-78.95	15.60	43.65	-51.61	-13.00	-38.61
9350.00	V	-	-	-82.87	18.55	42.68	-52.58	-13.00	-39.58
11220.00	V	-	ı	-83.81	21.47	44.66	-50.60	-13.00	-37.60
13090.00	V	-	-	-83.82	24.02	47.20	-48.06	-13.00	-35.06

## Table 7-35. Radiated Spurious Data (NR Band n25/2 - Low Channel - Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108
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]
3765.00	V	-	-	-79.74	7.78	35.04	-60.22	-13.00	-47.22
5647.50	V	102	39	-77.12	11.41	41.29	-53.97	-13.00	-40.97
7530.00	V	168	314	-80.61	15.65	42.04	-53.22	-13.00	-40.22
9412.50	V	-	-	-82.99	17.97	41.98	-53.28	-13.00	-40.28
11295.00	V	-	-	-83.51	20.91	44.40	-50.86	-13.00	-37.86
13177.50	V	-	-	-84.02	24.15	47.13	-48.12	-13.00	-35.12

## Table 7-36. Radiated Spurious Data (NR Band n25/2 - Mid Channel - Ant1)

Bandwidth (MHz):	40
Frequency (MHz):	1895
RB / Offset:	1 / 108
Mode:	Stand Alone

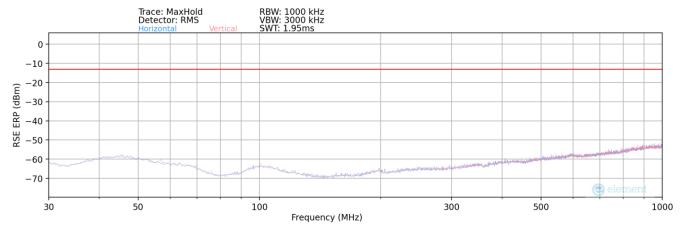
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3790.00	V	-	-	-79.90	8.07	35.17	-60.09	-13.00	-47.09
5685.00	V	154	47	-79.03	11.01	38.98	-56.27	-13.00	-43.27
7580.00	V	150	303	-79.48	15.72	43.24	-52.02	-13.00	-39.02
9475.00	V	-	ì	-83.10	18.20	42.10	-53.16	-13.00	-40.16
11370.00	V	-	Ť	-84.06	21.31	44.25	-51.01	-13.00	-38.01
13265.00	V	-	=	-84.34	24.68	47.34	-47.92	-13.00	-34.92

Table 7-37. Radiated Spurious Data (NR Band n25/2 - High Channel - Ant1)

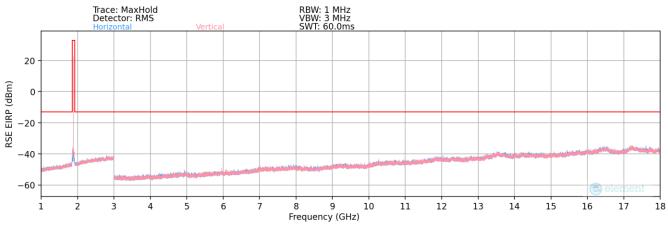
FCC ID: A3LSMA356U		Approved by: Technical Manager		
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## NR Band n25/2 - Ant2



Plot 7-75. Radiated Spurious Plot (NR Band n25/2 - Ant2)



Plot 7-76. Radiated Spurious Plot (NR Band n25/2 - Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 50
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
76.22	Н	-	-	-67.98	-18.10	20.92	-76.48	-13.00	-63.48
190.75	Н	-	-	-72.14	-13.99	20.87	-76.54	-13.00	-63.54
299.80	Н	-	-	-73.81	-11.21	21.98	-75.43	-13.00	-62.43

Table 7-38. Radiated Spurious Data (NR Band n25/2 - Ant2)

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Bandwidth (MHz):	40
Frequency (MHz):	1870
RB / Offset:	1 / 50
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]
3740.00	Н	-	-	-79.90	7.54	34.64	-60.62	-13.00	-47.62
5610.00	Н	-	-	-81.39	11.46	37.07	-58.19	-13.00	-45.19
7480.00	Н	-	-	-82.36	15.31	39.95	-55.30	-13.00	-42.30

## Table 7-39. Radiated Spurious Data (NR Band n25/2 - Low Channel - Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 50
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]
3765.00	Н	-	-	-80.00	7.78	34.78	-60.48	-13.00	-47.48
5647.50	Н	-	-	-81.44	11.41	36.97	-58.29	-13.00	-45.29
7530.00	Н	_	-	-82.21	15.65	40.44	-54.82	-13.00	-41.82

# Table 7-40. Radiated Spurious Data (NR Band n25/2 - Mid Channel - Ant2)

Bandwidth (MHz):	40
Frequency (MHz):	1895
RB / Offset:	1 / 50
Mode:	Stand Alone

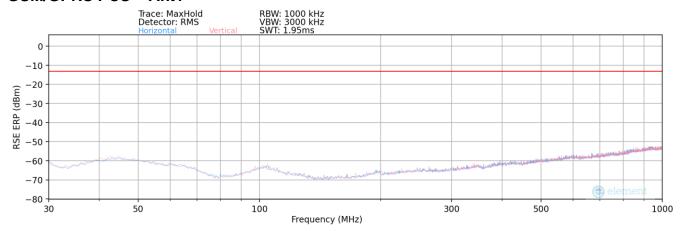
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3790.00	Н	-	-	-80.06	8.01	34.95	-60.31	-13.00	-47.31
5685.00	Н	-	-	-81.22	11.36	37.14	-58.12	-13.00	-45.12
7580.00	Н	-	-	-82.19	15.89	40.70	-54.56	-13.00	-41.56

Table 7-41. Radiated Spurious Data (NR Band n25/2 - High Channel - Ant2)

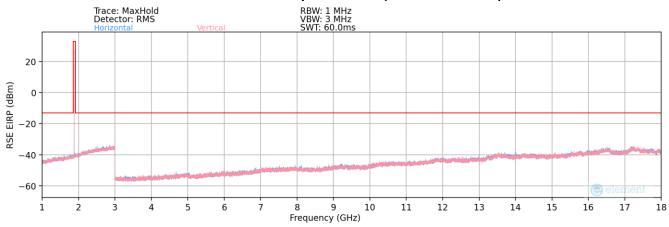
FCC ID: A3LSMA356U		Approved by: Technical Manager		
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## **GSM/GPRS PCS - Ant1**



Plot 7-77. Radiated Spurious Plot (GPRS PCS - Ant1)



Plot 7-78. Radiated Spurious Plot (GPRS PCS - Ant1)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

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]
105.81	V	-	-	-61.37	-13.52	32.11	-65.30	-13.00	-52.30
213.28	V	-	1	-64.13	-13.70	29.17	-68.23	-13.00	-55.23
325.00	V	-	-	-66.34	-10.44	30.22	-67.19	-13.00	-54.19

Table 7-42. Radiated Spurious Data (GPRS PCS - Ant1)

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Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

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]
3700.40	V	271	246	-69.42	7.69	45.27	-49.99	-13.00	-36.99
5550.60	V	301	26	-71.05	11.45	47.40	-47.86	-13.00	-34.86
7400.80	V	185	323	-70.00	15.00	52.00	-43.26	-13.00	-30.26
9251.00	V	-	ı	-73.64	17.75	51.11	-44.14	-13.00	-31.14
11101.20	V	-	-	-74.38	20.88	53.50	-41.76	-13.00	-28.76
12951.40	V	-	-	-74.98	24.05	56.07	-39.19	-13.00	-26.19

## Table 7-43. Radiated Spurious Data (GPRS PCS - Low Channel - Ant1)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880

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]
3760.00	V	108	44	-69.76	7.71	44.95	-50.31	-13.00	-37.31
5640.00	V	131	52	-62.21	11.46	56.25	-39.00	-13.00	-26.00
7520.00	V	102	346	-72.58	15.78	50.20	-45.06	-13.00	-32.06
9400.00	V	-	ı	-74.46	17.69	50.23	-45.02	-13.00	-32.02
11280.00	V	-	ı	-75.66	21.27	52.61	-42.64	-13.00	-29.64
13160.00	V	-	-	-74.79	23.68	55.89	-39.37	-13.00	-26.37

### Table 7-44. Radiated Spurious Data (GPRS PCS - Mid Channel - Ant1)

Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

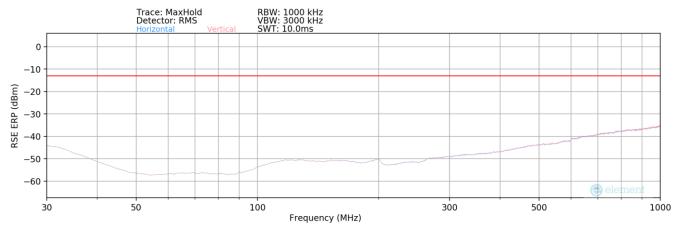
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3819.60	V	116	36	-68.84	7.98	46.14	-49.12	-13.00	-36.12
5729.40	V	343	300	-71.40	11.74	47.34	-47.91	-13.00	-34.91
7639.20	V	135	316	-70.49	15.84	52.35	-42.91	-13.00	-29.91
9549.00	V	-	-	-75.03	18.35	50.32	-44.94	-13.00	-31.94
11458.80	V	-	-	-74.49	21.04	53.55	-41.71	-13.00	-28.71
13368.60	V	-	-	-75.86	24.69	55.83	-39.43	-13.00	-26.43

Table 7-45. Radiated Spurious Data (GPRS PCS - High Channel - Ant1)

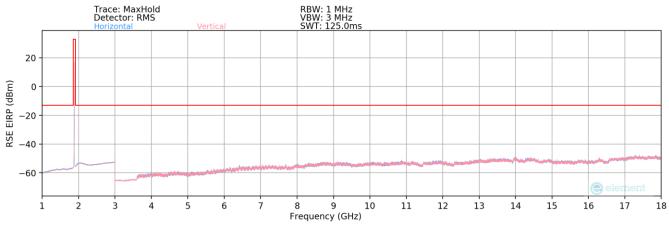
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## WCDMA PCS - Ant1



Plot 7-79. Radiated Spurious Plot (WCDMA PCS - Ant1)



Plot 7-80. Radiated Spurious Plot (WCDMA PCS - Ant1)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
90.38	V	-	-	-83.44	15.03	38.59	-58.82	-13.00	-45.82
196.55	V	-	-	-83.34	19.88	43.54	-53.87	-13.00	-40.87
481.24	V	-	-	-83.24	25.80	49.56	-47.85	-13.00	-34.85

Table 7-46. Radiated Spurious Data (WCDMA PCS - Ant1)

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Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

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]
3704.80	V	-	-	-77.59	1.19	30.60	-64.66	-13.00	-51.66
5557.20	V	174	86	-76.33	4.41	35.08	-60.17	-13.00	-47.17
7409.60	V	-	-	-78.25	9.27	38.02	-57.23	-13.00	-44.23
9262.00	V	-	-	-78.73	10.95	39.22	-56.03	-13.00	-43.03
11114.40	V	-	-	-79.45	12.65	40.20	-55.06	-13.00	-42.06

## Table 7-47. Radiated Spurious Data (WCDMA PCS - Low Channel - Ant1)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

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]
3760.00	V	-	-	-77.35	1.11	30.76	-64.50	-13.00	-51.50
5640.00	V	125	258	-75.21	4.53	36.32	-58.94	-13.00	-45.94
7520.00	V	-	-	-78.49	9.20	37.71	-57.55	-13.00	-44.55
9400.00	V	-	-	-79.55	12.12	39.57	-55.69	-13.00	-42.69
11280.00	V	-	-	-80.02	12.83	39.81	-55.45	-13.00	-42.45

## Table 7-48. Radiated Spurious Data (WCDMA PCS - Mid Channel - Ant1)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

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]
3815.20	V	-	-	-77.18	1.13	30.95	-64.31	-13.00	-51.31
5722.80	V	143	104	-76.95	4.68	34.73	-60.53	-13.00	-47.53
7630.40	V	-	-	-78.77	9.31	37.54	-57.72	-13.00	-44.72
9538.00	V	-	-	-79.58	11.81	39.23	-56.03	-13.00	-43.03
11445.60	V	_	_	-79.86	13.31	40.45	-54.80	-13.00	-41.80

Table 7-49. Radiated Spurious Data (WCDMA PCS - High Channel - Ant1)

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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 24, 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**

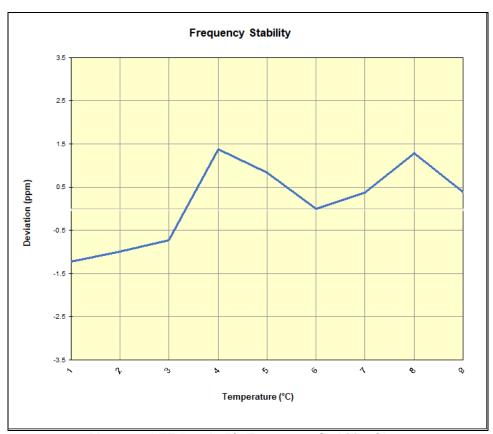
None

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LTE Band 25/2							
	Operating F	requency (Hz):	1,882,50	00,000			
	Ref.	Voltage (VDC):	4.4	1			
·					•		
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	1,882,589,354	-2,291	-0.0001217		
		- 20	1,882,589,789	-1,856	-0.0000986		
		- 10	1,882,590,289	-1,356	-0.0000720		
		0	1,882,594,247	2,602	0.0001382		
100 %	4.41	+ 10	1,882,593,224	1,579	0.0000839		
		+ 20 (Ref)	1,882,591,645	0	0.0000000		
		+ 30	1,882,592,345	700	0.0000372		
		+ 40	1,882,594,074	2,429	0.0001290		
		+ 50	1,882,592,364	719	0.0000382		
Battery Endpoint	3.59	+ 20	1,882,593,014	1,369	0.0000727		

Table 7-50. LTE Band 25/2 Frequency Stability Data



Plot 7-81. LTE Band 25/2 Frequency Stability Chart

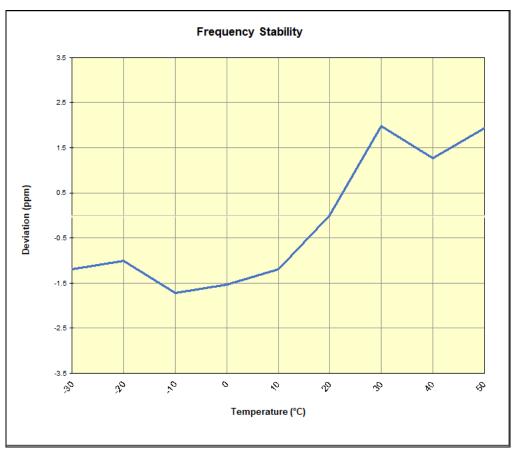
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NR Band n25/2								
	Operating F	requency (Hz):	1,882,50	0,000	]			
	Ref.	Voltage (VDC):	4.4	1				
'					•			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	1,882,566,248	-2,246	-0.0001193			
		- <mark>2</mark> 0	1,882,566,589	-1,905	-0.0001012			
		- 10	1,882,565,256	-3,238	-0.0001720			
		0	1,882,565,598	-2,896	-0.0001538			
100 %	4.41	+ 10	1,882,566,258	-2,236	-0.0001188			
		+ 20 (Ref)	1,882,568,494	0	0.0000000			
		+ 30	1,882,572,222	3,728	0.0001980			
		+ 40	1,882,570,874	2,380	0.0001264			
		+ 50	1,882,572,145	3,651	0.0001939			
Battery Endpoint	3.59	+ 20	1,882,571,569	3,075	0.0001633			

Table 7-51. NR Band n25/2 Frequency Stability Data



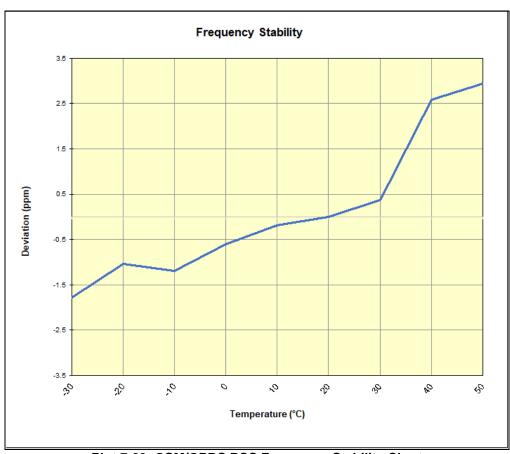
Plot 7-82. NR Band n25/2 Frequency Stability Chart

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GSM/GPRS PCS								
	Operating F	requency (Hz):	1,880,00	00,000	]			
	Ref.	Voltage (VDC):	4.4	1				
·								
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	1,850,215,368	-3,308	-0.0001788			
		- <mark>2</mark> 0	1,850,216,748	-1,928	-0.0001042			
		- 10	1,850,216,463	-2,213	-0.0001196			
		0	1,850,217,563	-1,113	-0.0000602			
100 %	4.41	+ 10	1,850,218,333	-343	-0.0000185			
		+ 20 (Ref)	1,850,218,676	0	0.0000000			
		+ 30	1,850,219,357	681	0.0000368			
		+ 40	1,850,223,456	4,780	0.0002583			
		+ 50	1,850,224,111	5,435	0.0002937			
Battery Endpoint	3.59	+ 20	1,850,223,578	4,902	0.0002649			

Table 7-52. GSM/GPRS PCS Frequency Stability Data



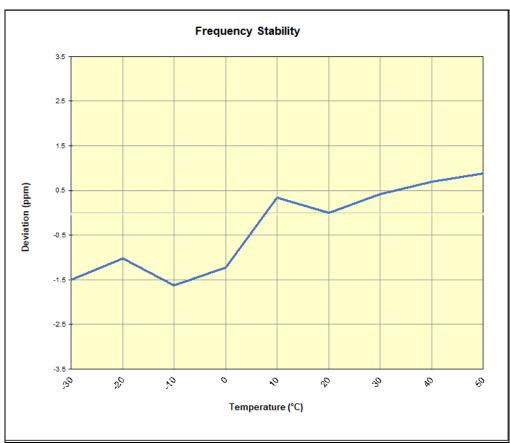
Plot 7-83. GSM/GPRS PCS Frequency Stability Chart

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WCDMA PCS								
	Operating F	requency (Hz):	1,880,00	0,000				
	Ref.	Voltage (VDC):	4.41		]			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	1,880,104,758	-2,810	-0.0001495			
		- 20	1,880,105,647	-1,921	-0.0001022			
		- 10	1,880,104,524	-3,044	-0.0001619			
		0	1,880,105,278	-2,290	-0.0001218			
100 %	4.41	+ 10	1,880,108,214	646	0.0000344			
		+ 20 (Ref)	1,880,107,568	0	0.0000000			
		+ 30	1,880,108,367	799	0.0000425			
		+ 40	1,880,108,869	1,301	0.0000692			
		+ 50	1,880,109,217	1,649	0.0000877			
Battery Endpoint	3.59	+ 20	1,880,108,452	884	0.0000470			

Table 7-53. WCDMA PCS Frequency Stability Data



Plot 7-84. WCDMA PCS Frequency Stability Chart

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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: A3LSMA356U** complies with all the requirements of Part 24 of the FCC rules.

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