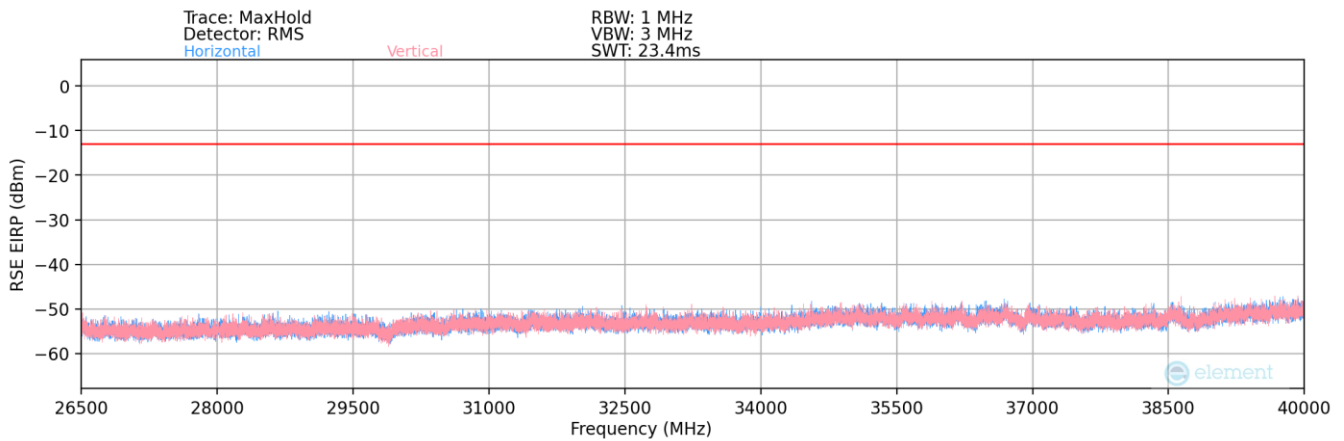


Plot 7-121. Radiated Spurious Plot – 18GHz – 26.5GHz (NR Band n77/78 PC2 C-Band – Ant 1)



Plot 7-122. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77/78 PC2 C-Band – Ant 1)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	V	125	70	-60.73	10.24	56.51	-38.75	-13.00	-25.75
11250.00	V	132	158	-73.87	12.66	45.79	-49.46	-13.00	-36.46
15000.00	V	146	41	-76.70	14.04	44.34	-50.91	-13.00	-37.91

Table 7-32. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – Low Channel – Ant 1)

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	V	137	61	-52.72	8.99	63.27	-31.99	-13.00	-18.99
11520.00	V	144	351	-73.01	12.90	46.89	-48.37	-13.00	-35.37
15360.00	V	146	42	-76.57	13.92	44.35	-50.91	-13.00	-37.91

Table 7-33. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – Mid Channel – Ant 1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 109 of 130



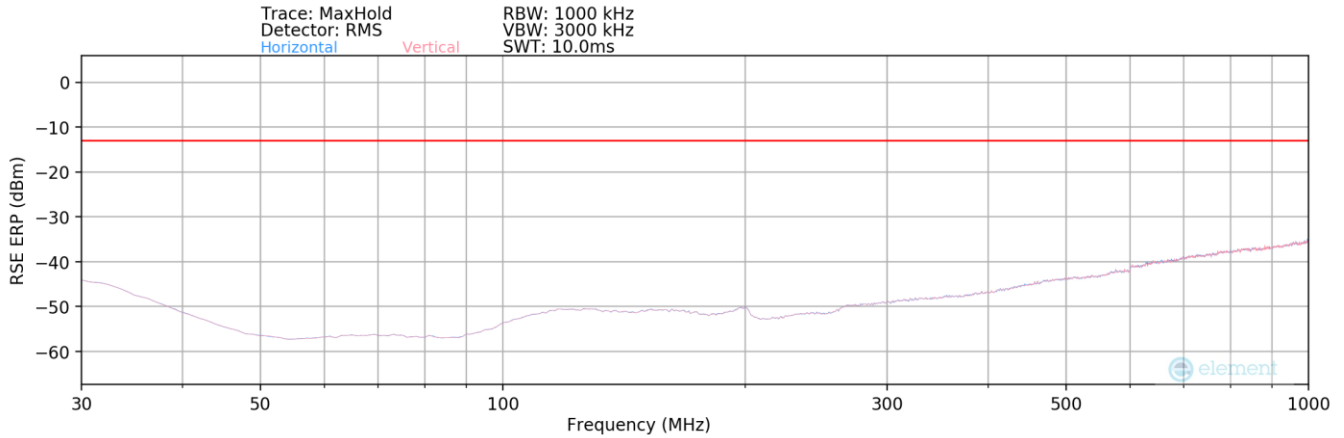
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1 / 136

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]
7860.00	V	128	55	-47.89	9.43	68.54	-26.71	-13.00	-13.71
11790.00	V	125	352	-71.88	13.27	48.39	-46.87	-13.00	-33.87
15720.00	V	122	17	-77.96	14.98	44.02	-51.24	-13.00	-38.24

Table 7-34. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – High Channel – Ant 1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 110 of 130

## NR Band n77/78 PC2 C-Band – Ant 2

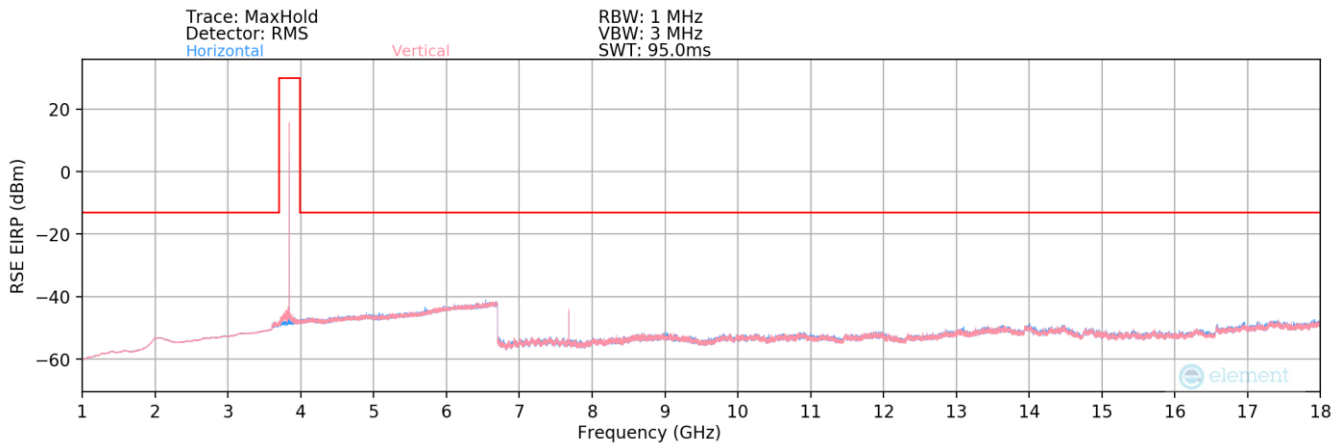


Plot 7-123. Radiated Spurious Plot – Below 1GHz (NR Band n77/78 PC2 C-Band – Ant 2)

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

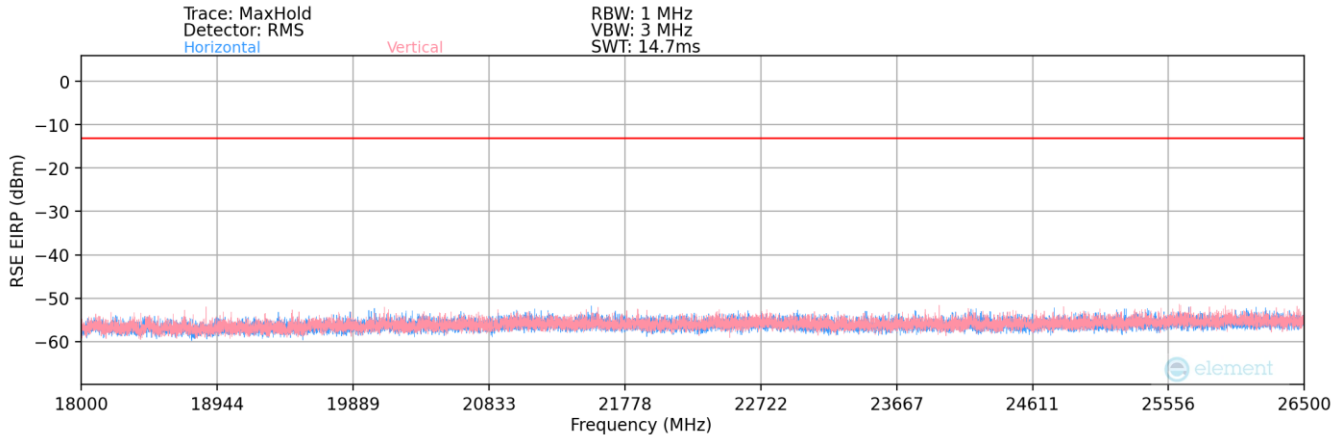
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
961.20	V	-	-	-86.57	31.90	52.33	-45.08	-13.00	-32.08

Table 7-35. Radiated Spurious Data Below 1GHz (NR Band n77/78 PC2 C-Band – Mid Channel – Ant 2)

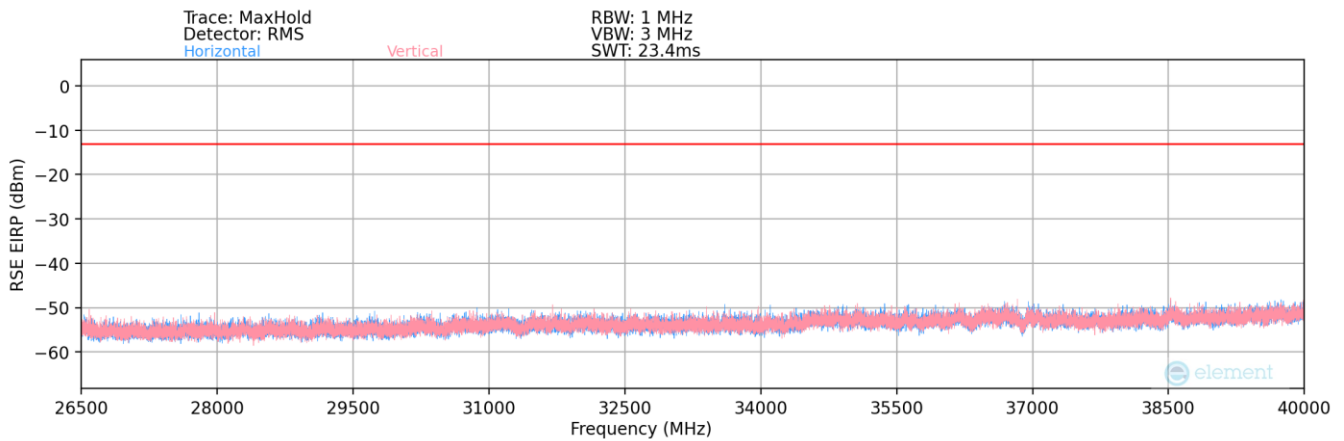


Plot 7-124. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77/78 PC2 C-Band – Ant 2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 111 of 130



Plot 7-125. Radiated Spurious Plot – 18GHz – 26.5GHz (NR Band n77/78 PC2 C-Band – Ant 2)



Plot 7-126. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77/78 PC2 C-Band – Ant 2)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	V	145	99	-63.48	10.24	53.76	-41.50	-13.00	-28.50
11250.00	V	237	51	-76.19	12.66	43.47	-51.78	-13.00	-38.78
15000.00	V	214	328	-74.18	14.04	46.86	-48.39	-13.00	-35.39
18750.00	V	-	-	-55.22	1.53	53.31	-51.49	-13.00	-38.49
22500.00	V	-	-	-56.79	3.77	53.98	-50.82	-13.00	-37.82
26250.00	V	-	-	-56.36	4.18	54.82	-49.98	-13.00	-36.98

Table 7-36. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – Low Channel – Ant 2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 112 of 130



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	V	318	343	-56.07	8.99	59.92	-35.34	-13.00	-22.34
11520.00	V	306	292	-75.68	12.90	44.22	-51.04	-13.00	-38.04
15360.00	V	237	26	-77.81	13.92	43.11	-52.15	-13.00	-39.15
19200.00	V	-	-	-56.32	2.06	52.74	-52.06	-13.00	-39.06
23040.00	V	-	-	-56.15	3.74	54.60	-50.20	-13.00	-37.20
26880.00	V	-	-	-57.11	4.42	54.31	-50.49	-13.00	-37.49

Table 7-37. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – Mid Channel – Ant 2)

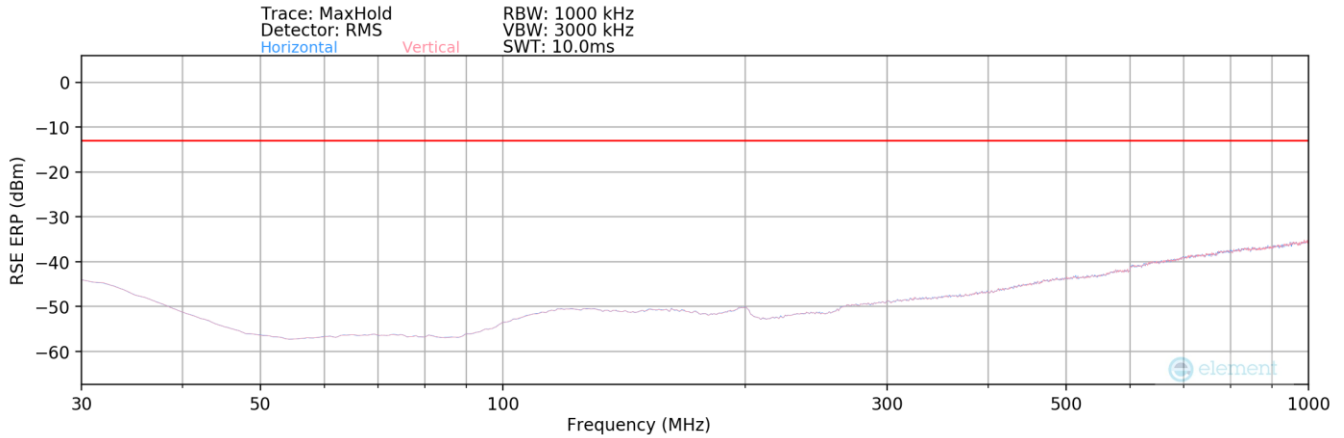
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1 / 136

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]
7860.00	V	320	6	-60.78	9.43	55.65	-39.60	-13.00	-26.60
11790.00	V	-	-	-78.77	13.27	41.50	-53.76	-13.00	-40.76
15720.00	V	-	-	-79.49	14.98	42.49	-52.77	-13.00	-39.77
19650.00	V	-	-	-55.30	2.49	54.19	-50.61	-13.00	-37.61
23580.00	V	-	-	-56.58	3.77	54.19	-50.61	-13.00	-37.61
27510.00	V	-	-	-56.85	4.33	54.48	-50.32	-13.00	-37.32

Table 7-38. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – High Channel – Ant 2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 113 of 130

# NR Band n77/78 PC2 C-Band – Ant 3

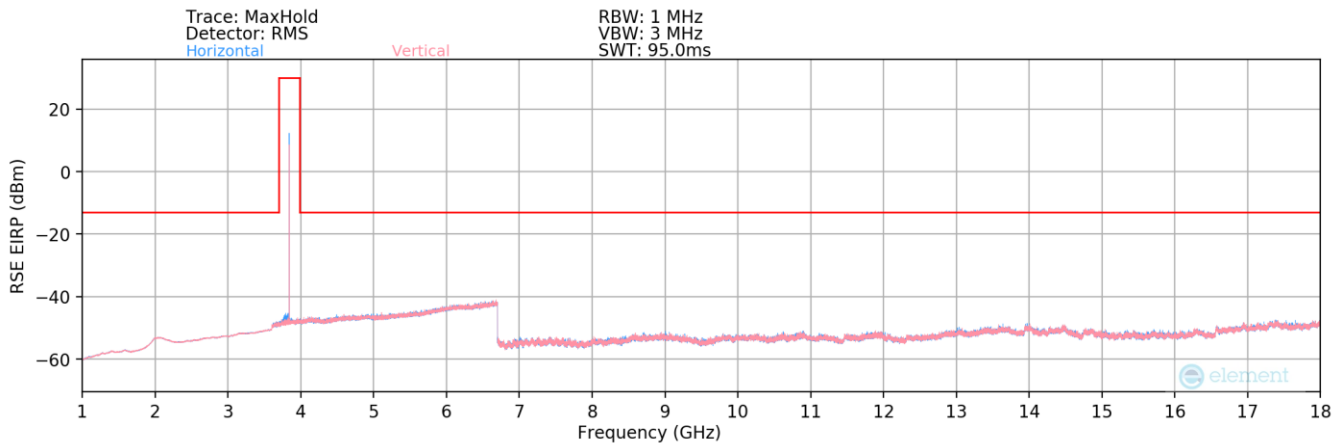


Plot 7-127. Radiated Spurious Plot – Below 1GHz (NR Band n77/78 PC2 C-Band – Ant 3)

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

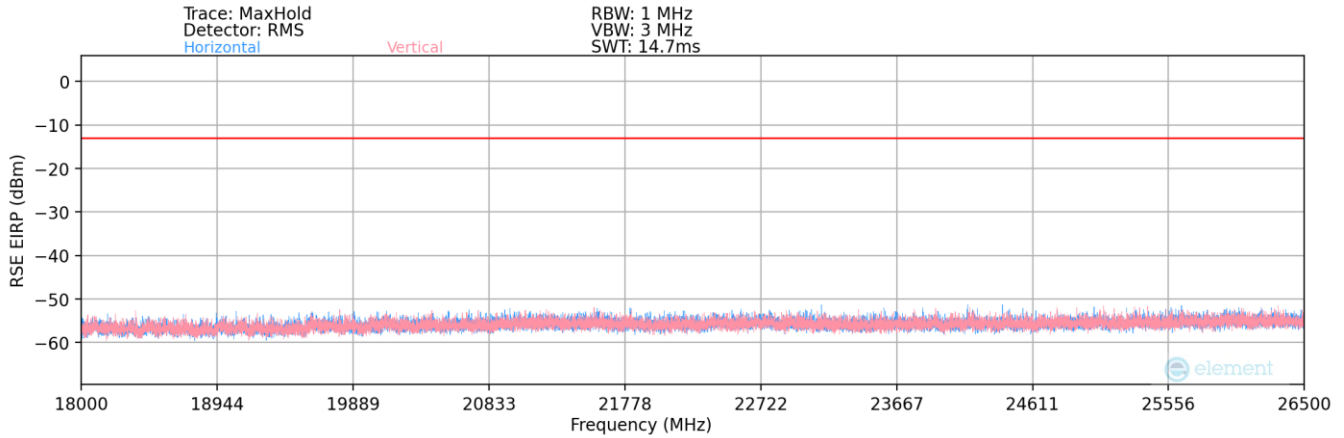
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
926.00	H	-	-	-86.27	31.35	52.08	-45.33	-13.00	-32.33

Table 7-39. Radiated Spurious Data Below 1GHz (NR Band n77/78 PC2 C-Band – Mid Channel – Ant 3)

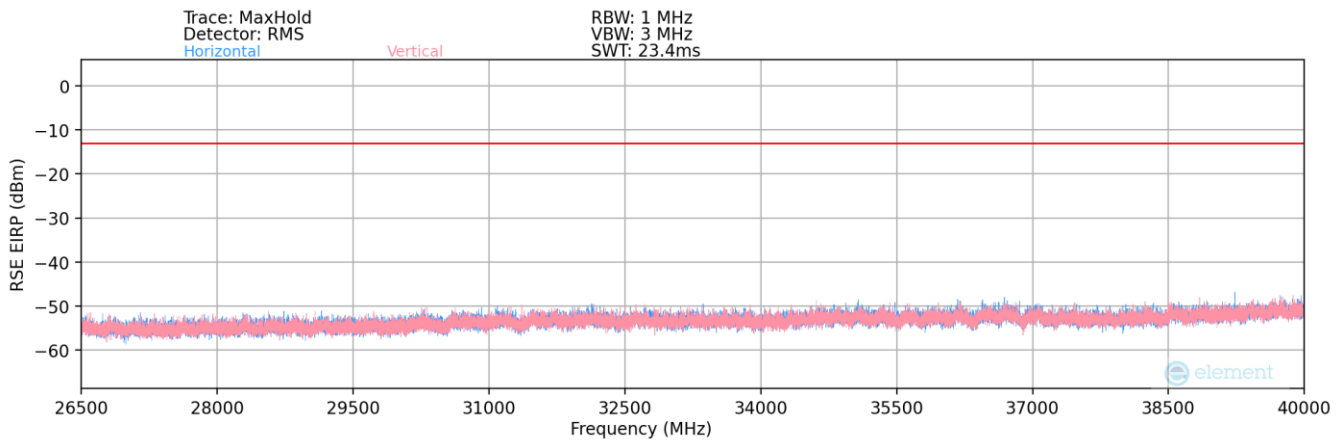


Plot 7-128. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77/78 PC2 C-Band – Ant 3)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 114 of 130



**Plot 7-129. Radiated Spurious Plot – 18GHz – 26.5GHz (NR Band n77/78 PC2 C-Band – Ant 3)**



**Plot 7-130. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77/78 PC2 C-Band – Ant 3)**

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	H	-	-	-77.75	10.24	39.49	-55.77	-13.00	-42.77
11250.00	H	-	-	-79.30	12.66	40.36	-54.89	-13.00	-41.89
15000.00	H	137	31	-76.63	14.04	44.41	-50.84	-13.00	-37.84
18750.00	H	-	-	-55.85	1.53	52.69	-52.11	-13.00	-39.11
22500.00	H	-	-	-56.85	3.77	53.92	-50.88	-13.00	-37.88
26250.00	H	-	-	-55.37	4.18	55.81	-48.99	-13.00	-35.99

**Table 7-40. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – Low Channel – Ant 3)**

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 115 of 130



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	H	222	356	-76.25	8.99	39.74	-55.52	-13.00	-42.52
11520.00	H	-	-	-79.45	12.90	40.45	-54.81	-13.00	-41.81
15360.00	H	-	-	-79.46	13.92	41.46	-53.80	-13.00	-40.80
19200.00	H	-	-	-56.28	2.06	52.78	-52.02	-13.00	-39.02
23040.00	H	-	-	-56.07	3.74	54.67	-50.13	-13.00	-37.13

Table 7-41. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – Mid Channel – Ant 3)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
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]
7860.00	H	160	308	-74.49	9.43	41.94	-53.31	-13.00	-40.31
11790.00	H	-	-	-79.63	13.27	40.64	-54.62	-13.00	-41.62
15720.00	H	-	-	-80.09	14.98	41.89	-53.37	-13.00	-40.37
19650.00	H	-	-	-56.23	2.49	53.26	-51.54	-13.00	-38.54
23580.00	H	-	-	-56.48	3.77	54.29	-50.51	-13.00	-37.51

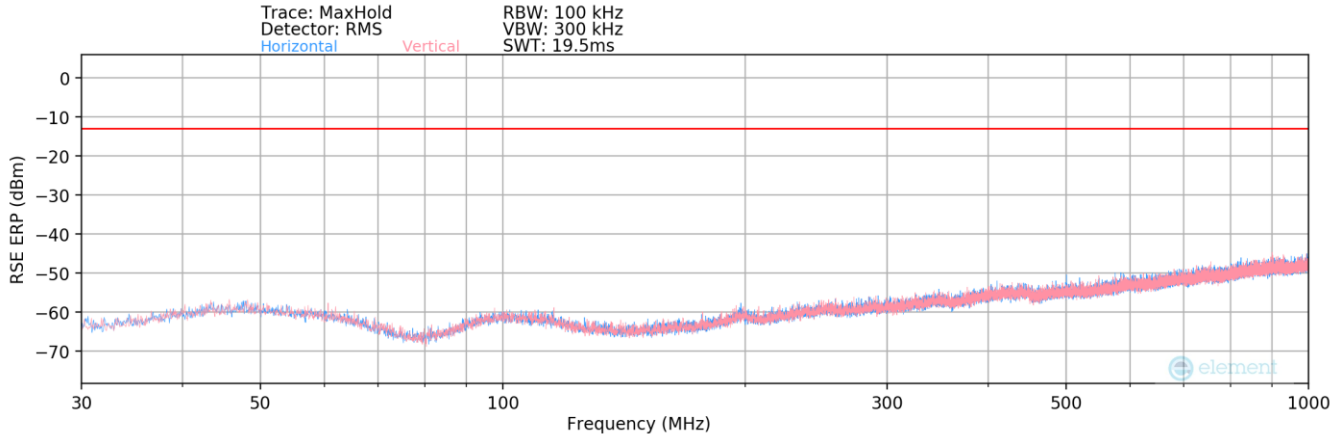
Table 7-42. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – High Channel – Ant 3)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 116 of 130





# NR Band n77/78 PC2 C-Band – Ant 4

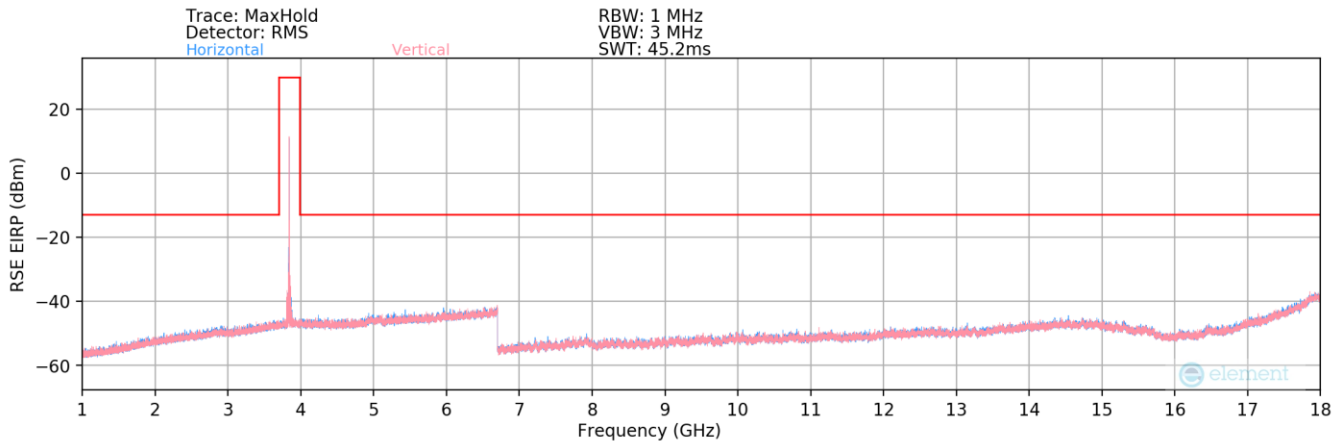


Plot 7-131. Radiated Spurious Plot – Below 1GHz (NR Band n77/78 PC2 C-Band – Ant 4)

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

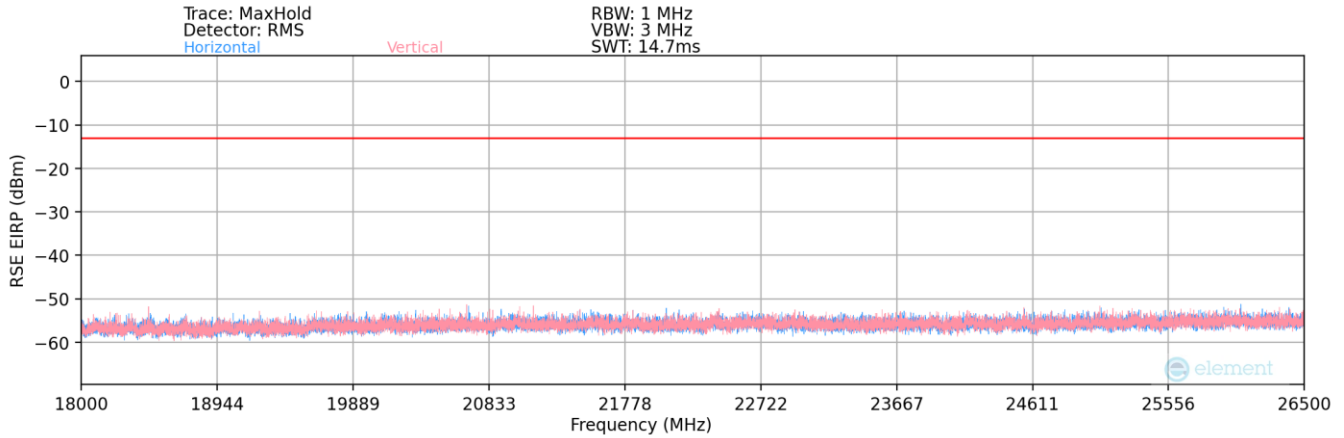
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
377.00	V	-	-	-95.81	22.29	33.48	-63.93	-13.00	-50.93

Table 7-43. Radiated Spurious Data Below 1GHz (NR Band n77/78 PC2 C-Band – Mid Channel – Ant 4)

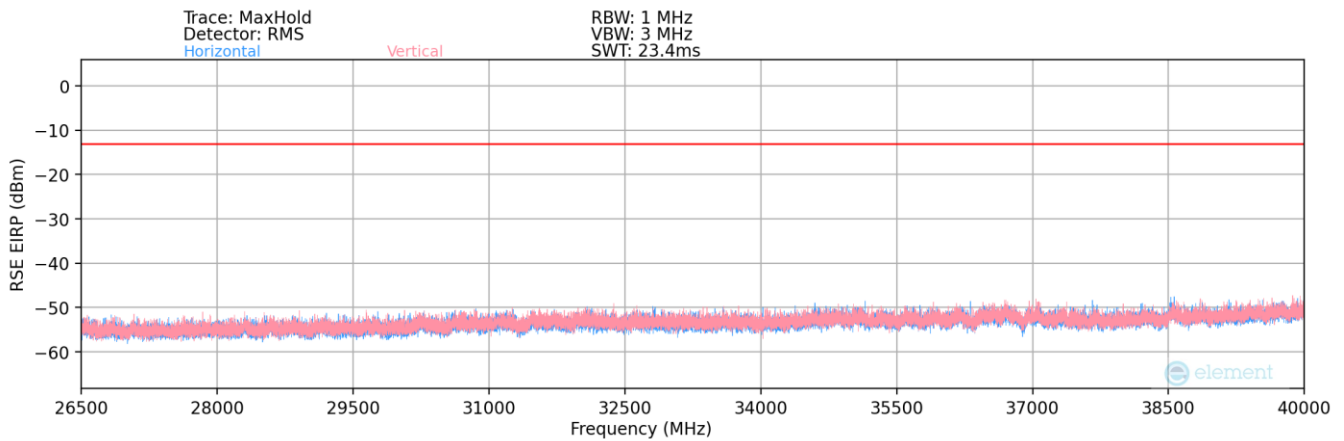


Plot 7-132. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77/78 PC2 C-Band – Ant 4)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 117 of 130



**Plot 7-133. Radiated Spurious Plot – 18GHz – 26.5GHz (NR Band n77/78 PC2 C-Band – Ant 4)**



**Plot 7-134. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77/78 PC2 C-Band – Ant 4)**

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1/1

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	H	158	316	-68.67	7.18	45.51	-49.75	-13.00	-36.75
11250.00	H	-	-	-81.42	12.19	37.77	-57.49	-13.00	-44.49
15000.00	H	-	-	-81.99	16.79	41.80	-53.46	-13.00	-40.46
18750.00	H	-	-	-55.69	1.53	52.84	-51.96	-13.00	-38.96
22500.00	H	-	-	-57.06	3.77	53.71	-51.09	-13.00	-38.09

**Table 7-44. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – Low Channel – Ant 4)**

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 118 of 130



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

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	H	144	305	-68.14	6.82	45.68	-49.58	-13.00	-36.58
11520.00	H	-	-	-81.24	11.29	37.05	-58.21	-13.00	-45.21
15360.00	H	-	-	-82.67	15.55	39.88	-55.38	-13.00	-42.38
19200.00	H	-	-	-56.44	2.06	52.62	-52.18	-13.00	-39.18
23040.00	H	-	-	-55.30	3.74	55.44	-49.36	-13.00	-36.36

Table 7-45. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – Mid Channel – Ant 4)

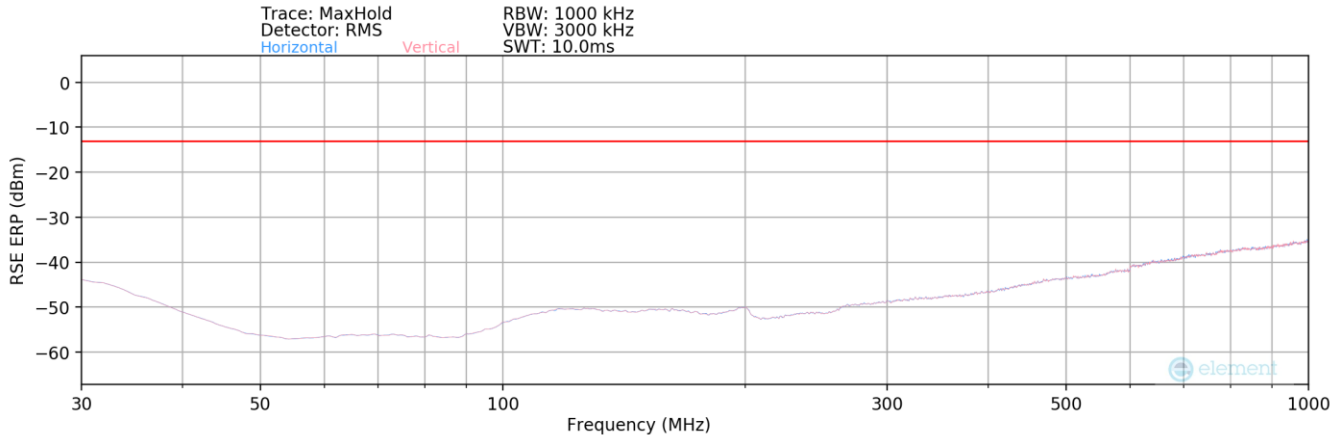
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/1

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	H	171	314	-69.23	7.84	45.61	-49.65	-13.00	-36.65
11790.00	H	-	-	-81.59	12.46	37.87	-57.39	-13.00	-44.39
15720.00	H	-	-	-82.33	14.86	39.53	-55.73	-13.00	-42.73
19650.00	H	-	-	-56.03	2.49	53.46	-51.34	-13.00	-38.34
23580.00	H	-	-	-56.30	3.77	54.48	-50.32	-13.00	-37.32

Table 7-46. Radiated Spurious Data (NR Band n77/78 PC2 C-Band – High Channel – Ant 4)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 119 of 130

# NR Band n77/78 PC2 DoD – Ant 1

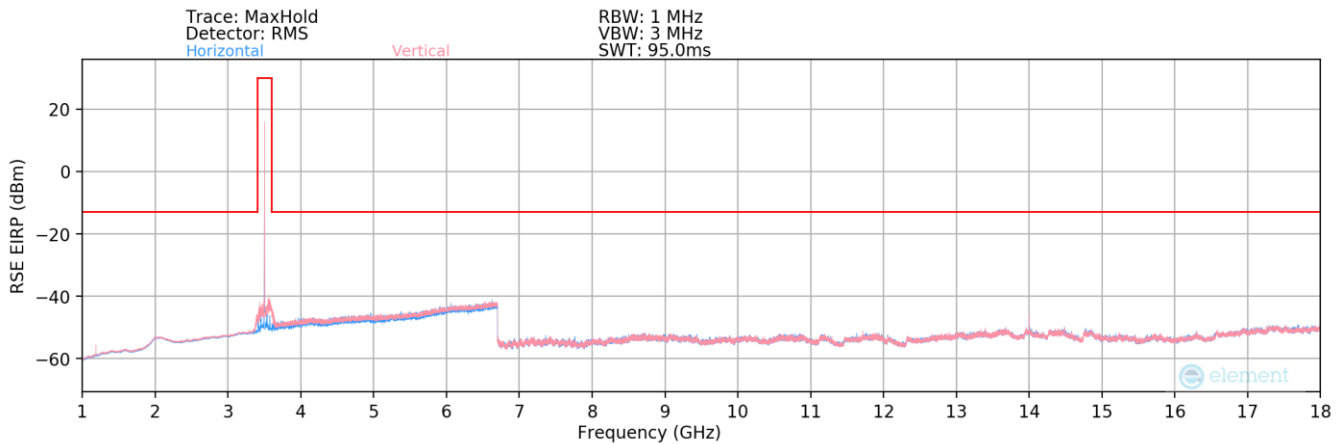


Plot 7-135. Radiated Spurious Plot – Below 1GHz (NR Band n77/78 PC2 DoD – Ant 1)

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

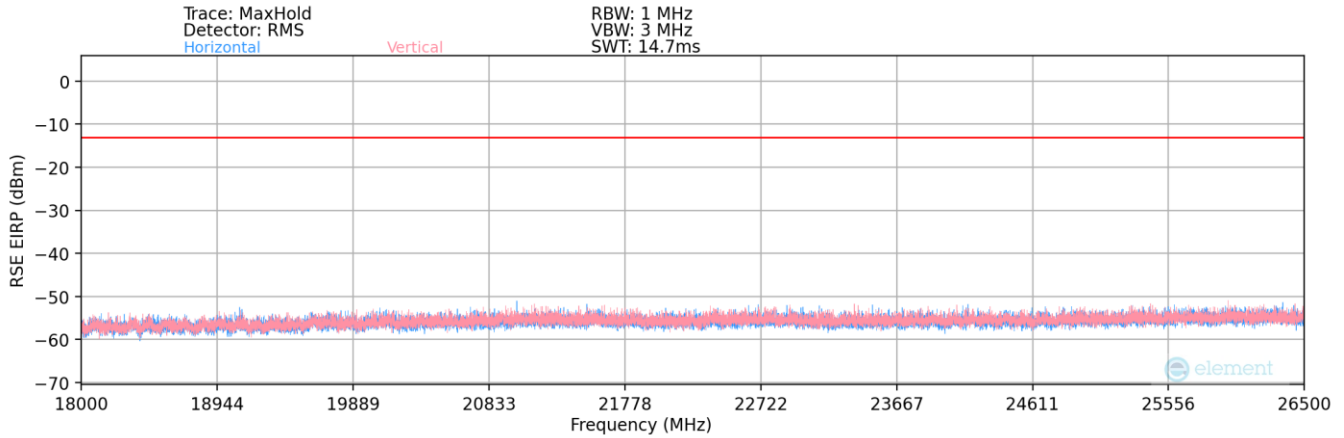
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
962.66	V	-	-	-89.52	31.88	49.36	-48.05	-13.00	-35.05

Table 7-47. Radiated Spurious Data Below 1GHz (NR Band n77/78 PC2 DoD – Mid Channel – Ant 1)

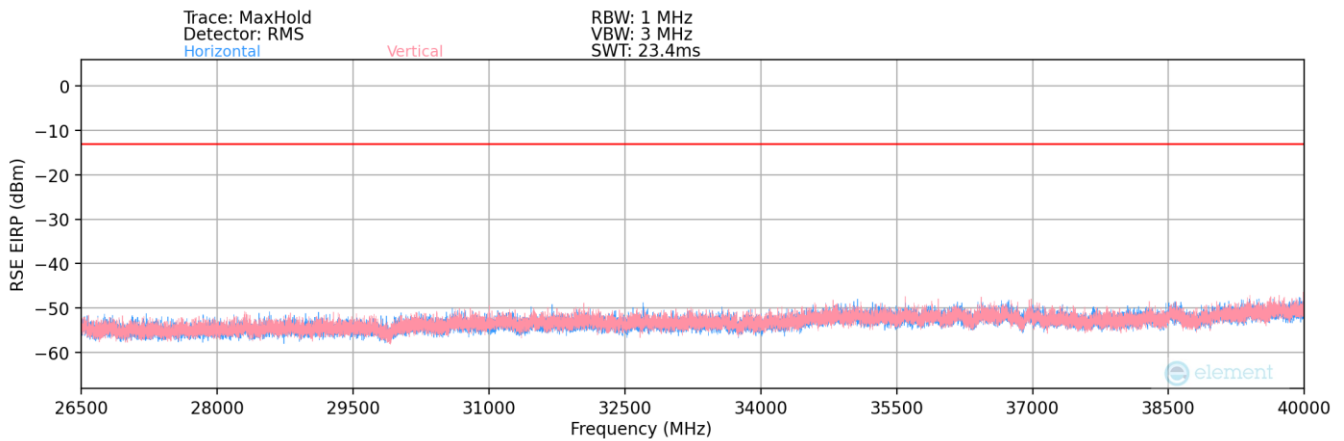


Plot 7-136. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77/78 PC2 DoD – Ant 1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 120 of 130



**Plot 7-137. Radiated Spurious Plot – 18GHz – 26.5GHz (NR Band n77/78 PC2 DoD – Ant 1)**



**Plot 7-138. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77/78 PC2 DoD – Ant 1)**

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

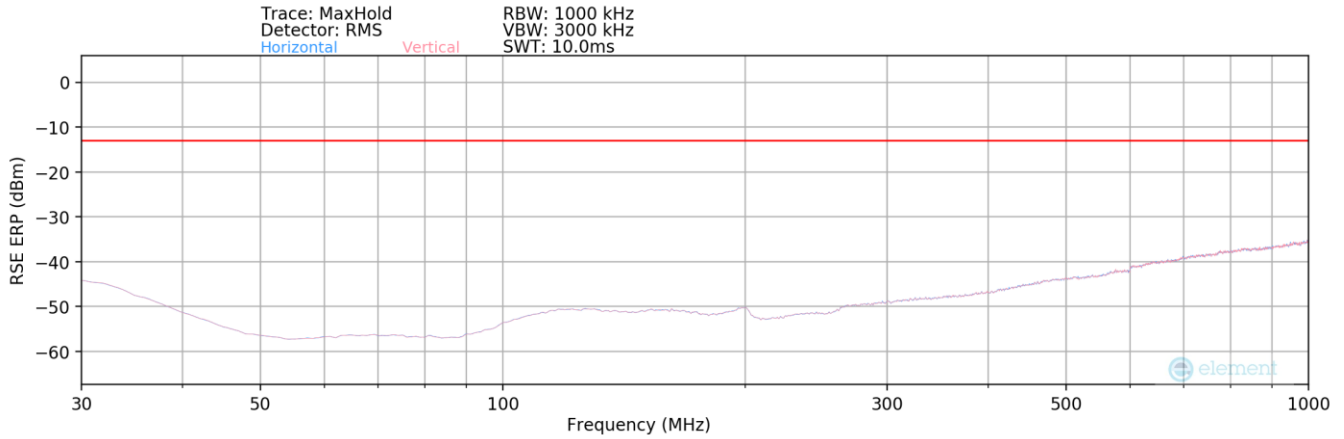
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	292	246	-73.33	9.34	43.01	-52.25	-13.00	-39.25
10500.03	V	230	191	-75.27	12.73	44.46	-50.80	-13.00	-37.80
14000.04	V	145	325	-75.36	15.92	47.56	-47.70	-13.00	-34.70
17500.05	V	-	-	-80.09	17.05	43.96	-51.30	-13.00	-38.30

**Table 7-48. Radiated Spurious Data (NR Band n77/78 PC2 DoD – Mid Channel – Ant 1)**

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 121 of 130



## NR Band n77/78 PC2 DoD – Ant 2

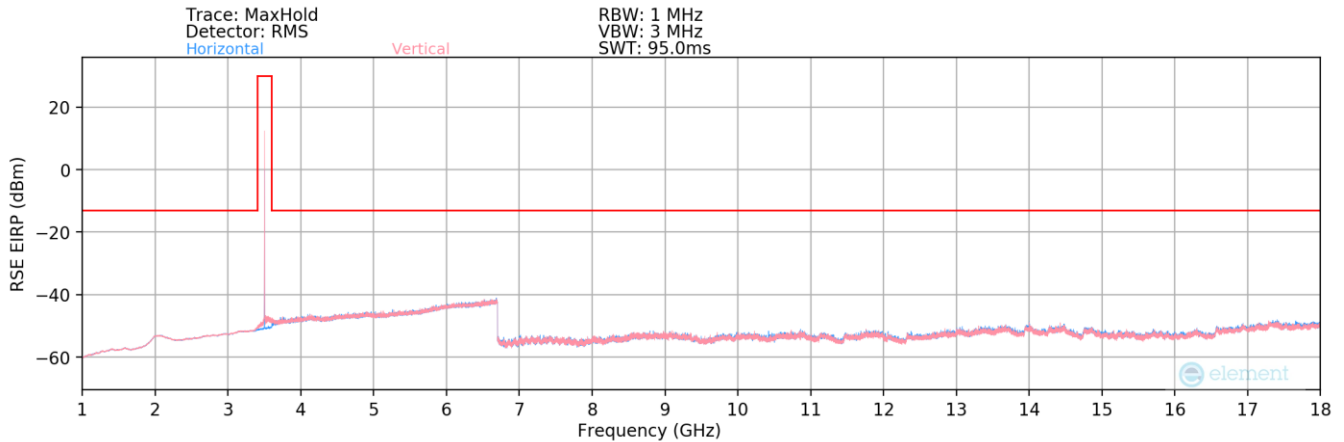


Plot 7-139. Radiated Spurious Plot – Below 1GHz (NR Band n77/78 PC2 DoD – Ant 2)

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

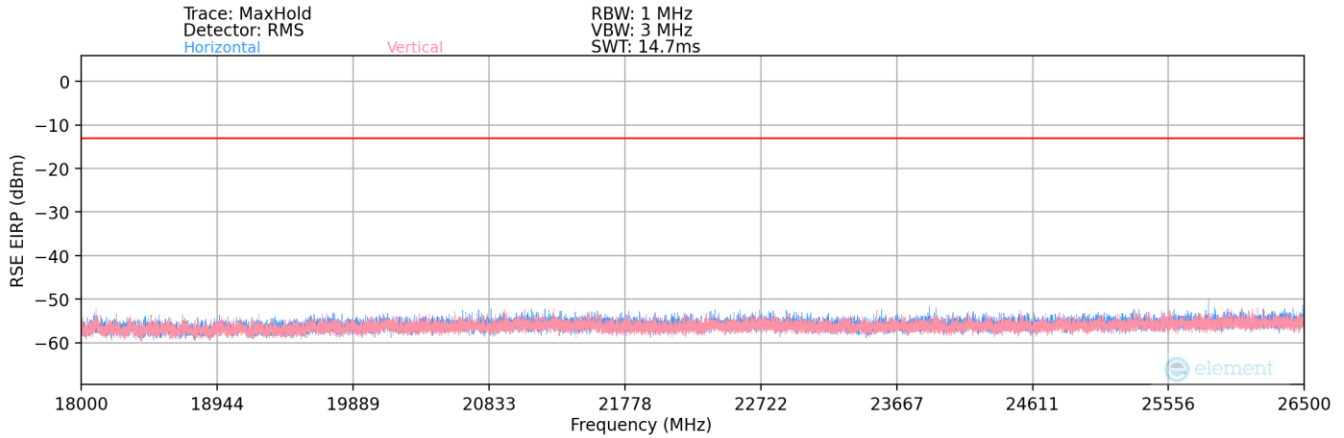
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
843.83	V	-	-	-86.87	30.71	50.84	-46.57	-13.00	-33.57

Table 7-49. Radiated Spurious Data Below 1GHz (NR Band n77/78 PC2 DoD – Mid Channel – Ant 2)

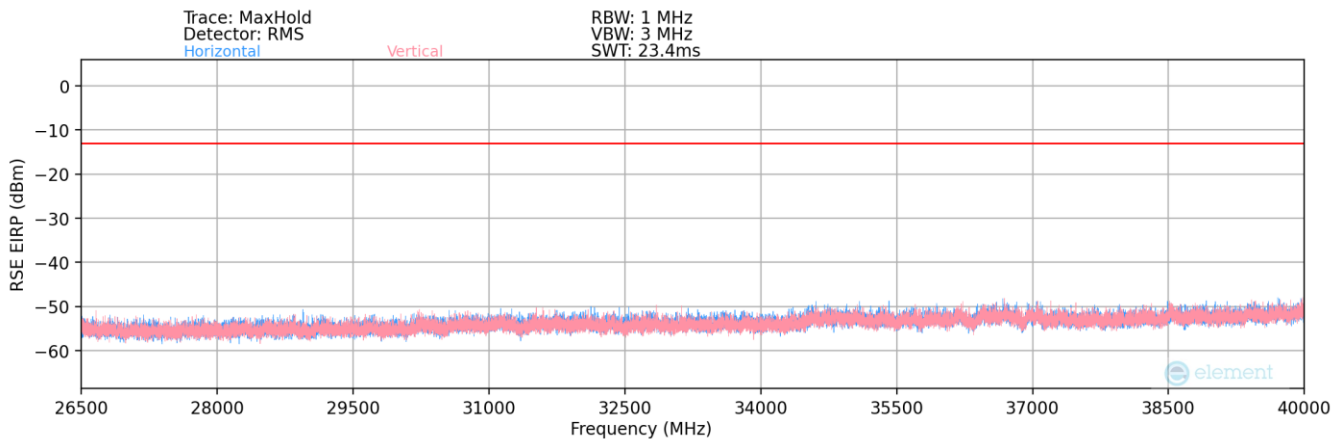


Plot 7-140. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77/78 PC2 DoD – Ant 2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 122 of 130



**Plot 7-141. Radiated Spurious Plot – 18GHz – 26.5GHz (NR Band n77/78 PC2 DoD – Ant 2)**



**Plot 7-142. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77/78 PC2 DoD – Ant 2)**

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

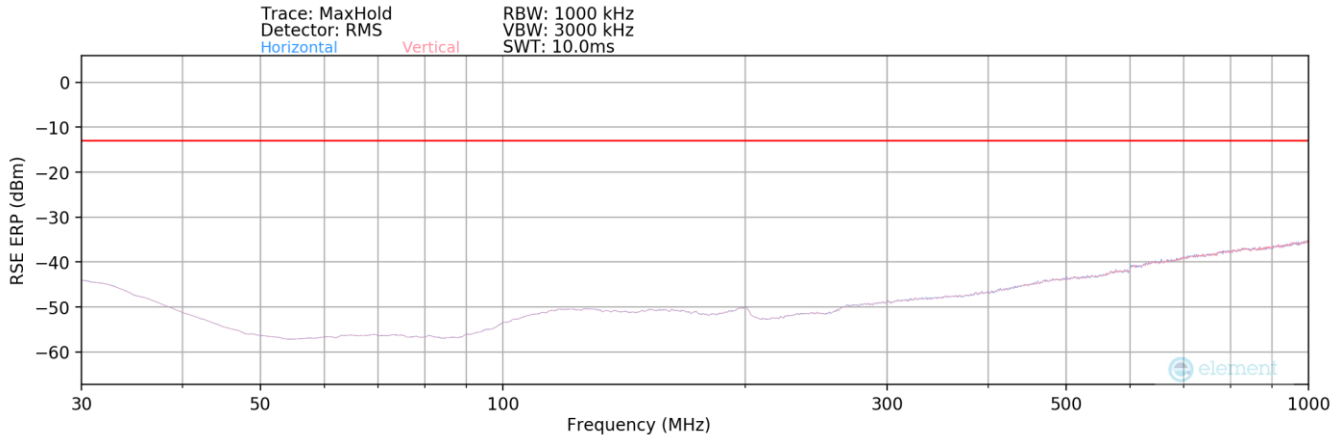
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	V	-	-	-76.42	9.34	39.92	-55.34	-13.00	-42.34
10500.03	V	-	-	-78.93	12.73	40.80	-54.46	-13.00	-41.46
14000.04	V	234	329	-74.42	15.92	48.50	-46.76	-13.00	-33.76
17500.05	V	-	-	-78.80	17.05	45.25	-50.01	-13.00	-37.01
21000.06	V	-	-	-56.60	3.52	53.92	-50.88	-13.00	-37.88
24500.07	V	-	-	-57.15	3.88	53.73	-51.07	-13.00	-38.07
28000.08	V	-	-	-57.52	4.51	53.99	-50.81	-13.00	-37.81

**Table 7-50. Radiated Spurious Data (NR Band n77/78 PC2 DoD – Mid Channel – Ant 2)**

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 123 of 130



# NR Band n77/78 PC2 DoD – Ant 3

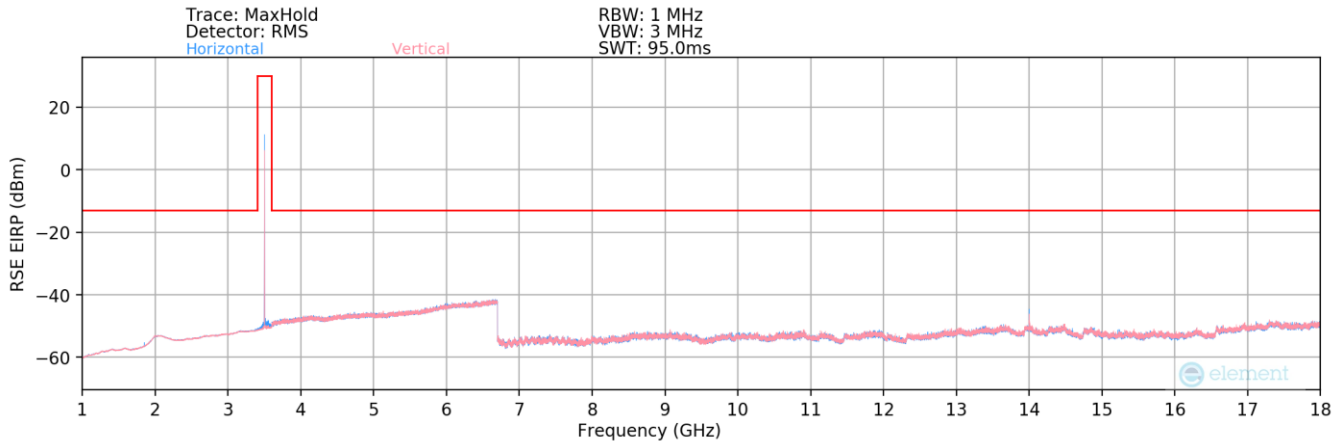


Plot 7-143. Radiated Spurious Plot – Below 1GHz (NR Band n77/78 PC2 DoD – Ant 3)

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
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]
713.65	H	-	-	-86.70	29.06	49.36	-48.05	-13.00	-35.05

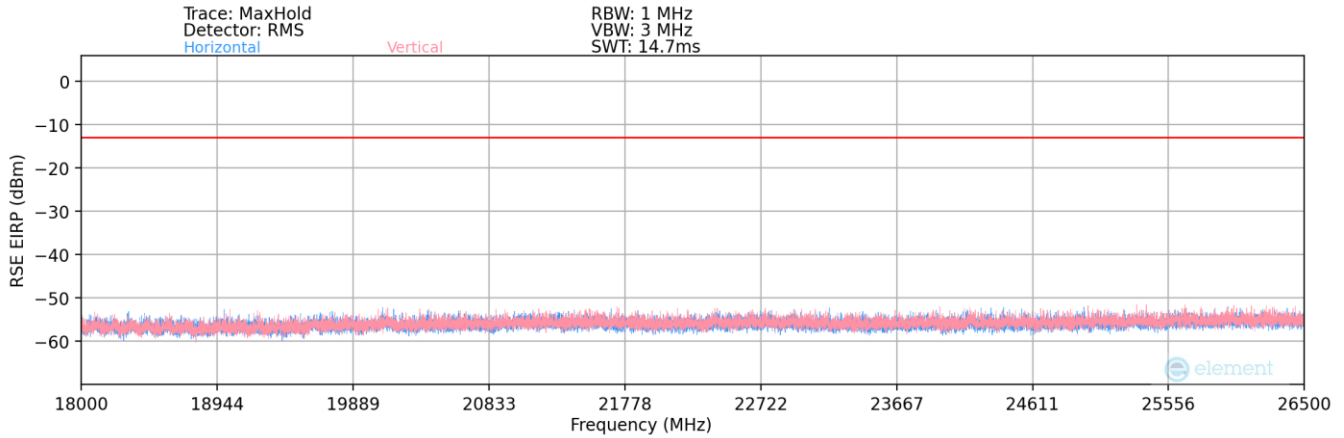
Table 7-51. Radiated Spurious Data Below 1GHz (NR Band n77/78 PC2 DoD – Mid Channel – Ant 3)



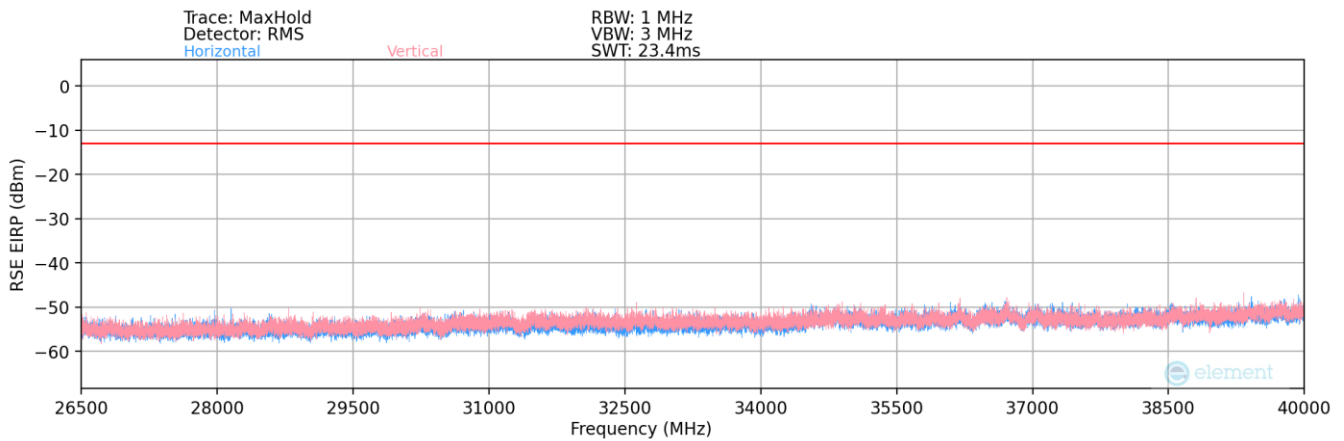
Plot 7-144. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77/78 PC2 DoD – Ant 3)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 124 of 130





Plot 7-145. Radiated Spurious Plot – 18GHz – 26.5GHz (NR Band n77/78 PC2 DoD – Ant 3)



Plot 7-146. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77/78 PC2 DoD – Ant 3)

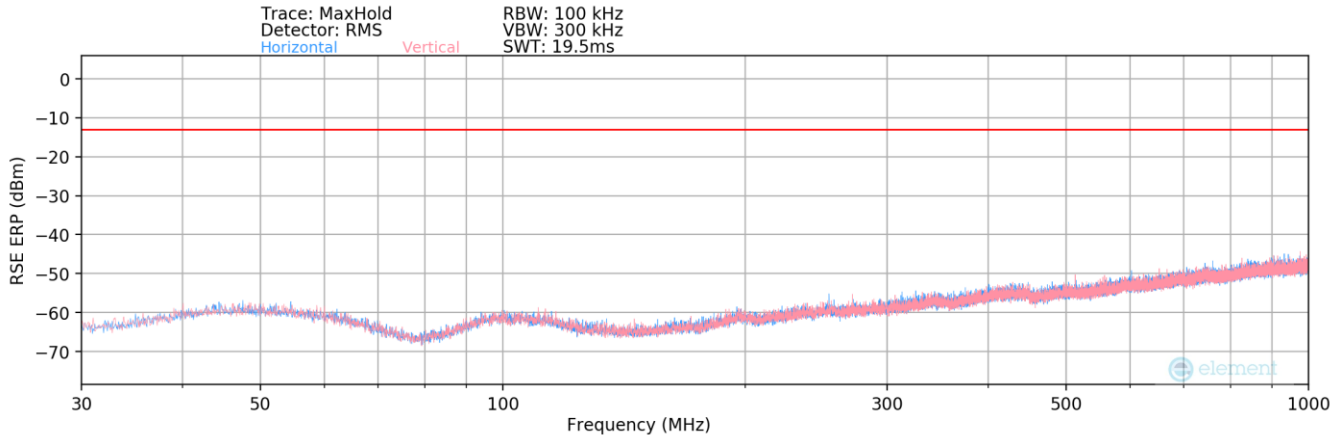
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

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]
7000.02	H	-	-	-76.84	9.34	39.50	-55.76	-13.00	-42.76
10500.03	H	-	-	-79.71	12.73	40.02	-55.24	-13.00	-42.24
14000.04	H	239	44	-73.66	15.92	49.26	-46.00	-13.00	-33.00
17500.05	H	-	-	-79.47	17.05	44.58	-50.68	-13.00	-37.68
21000.06	H	-	-	-56.58	3.52	53.94	-50.86	-13.00	-37.86
24500.07	H	-	-	-56.34	3.88	54.55	-50.25	-13.00	-37.25
28000.08	H	-	-	-57.00	4.51	54.51	-50.29	-13.00	-37.29

Table 7-52. Radiated Spurious Data (NR Band n77/78 PC2 DoD – Mid Channel – Ant 3)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 125 of 130

# NR Band n77/78 PC2 DoD – Ant 4

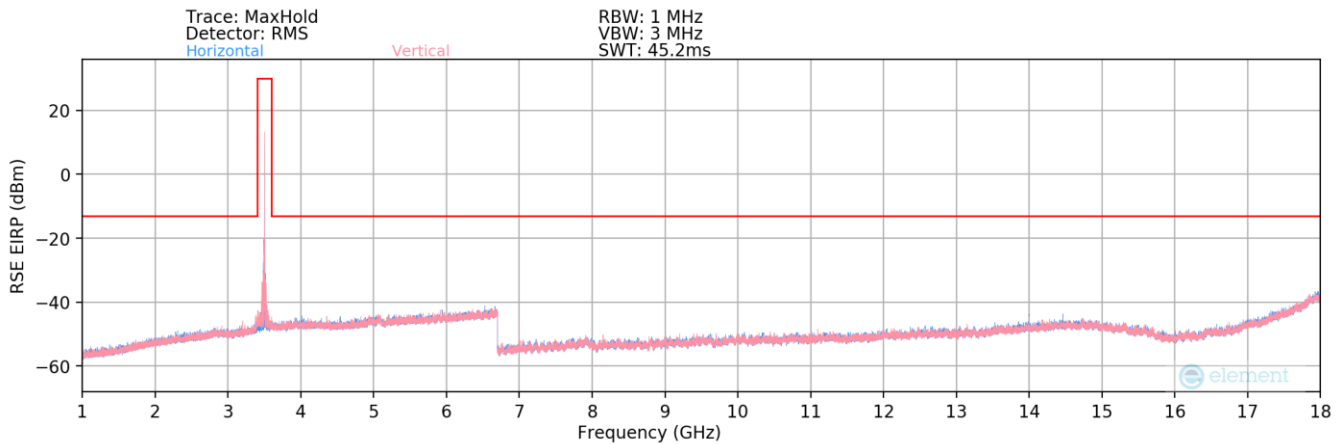


Plot 7-147. Radiated Spurious Plot – Below 1GHz (NR Band n77/78 PC2 DoD – Ant 4)

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136

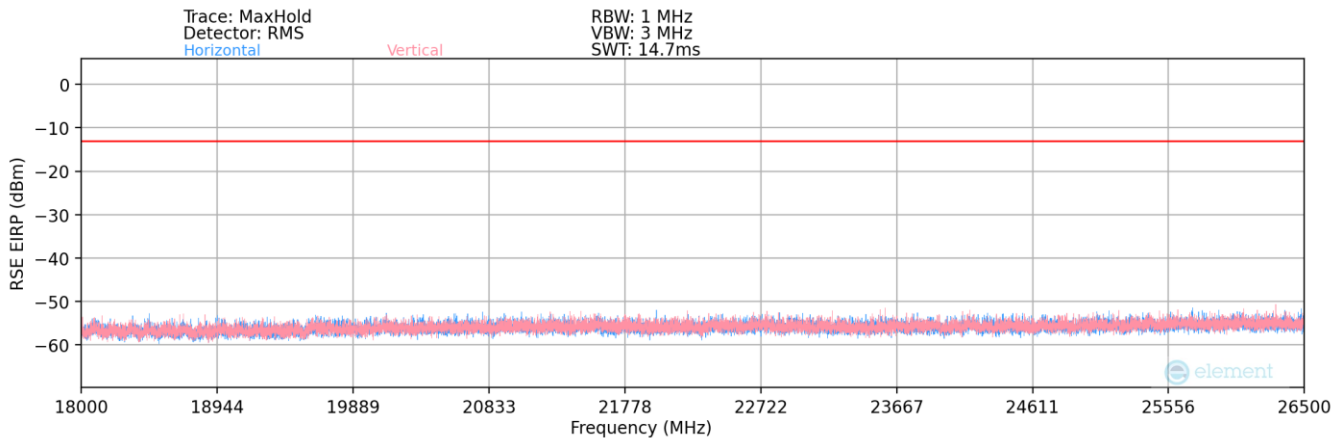
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
277.43	H	-	-	-95.88	19.98	31.10	-66.31	-13.00	-53.31

Table 7-53. Radiated Spurious Data Below 1GHz (NR Band n77/78 PC2 DoD – Mid Channel – Ant 4)

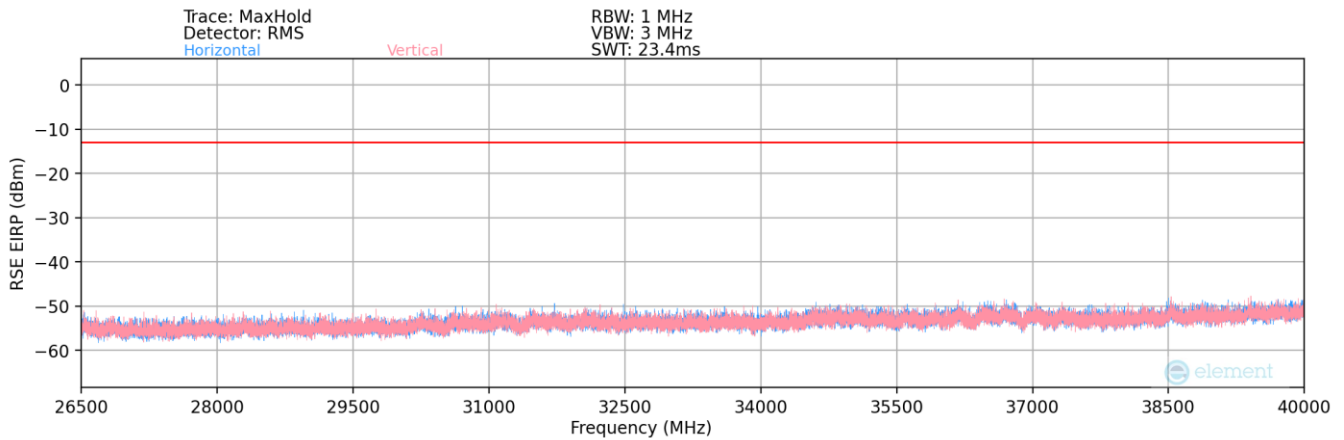


Plot 7-148. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77/78 PC2 DoD – Ant 4)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 126 of 130



**Plot 7-149. Radiated Spurious Plot – 18GHz – 26.5GHz (NR Band n77/78 PC2 DoD – Ant 4)**



**Plot 7-150. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77/78 PC2 DoD – Ant 4)**

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
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]
7000.02	V	162	40	-64.06	5.36	48.30	-46.95	-13.00	-33.95
10500.03	V	-	-	-79.93	10.75	37.82	-57.44	-13.00	-44.44
14000.04	V	-	-	-80.31	15.55	42.24	-53.01	-13.00	-40.01
17500.05	V	-	-	-82.59	20.42	44.83	-50.43	-13.00	-37.43
21000.06	V	-	-	-55.79	3.52	54.73	-50.07	-13.00	-37.07

**Table 7-54. Radiated Spurious Data (NR Band n77/78 PC2 DoD – Mid Channel – Ant 4)**

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 127 of 130



## 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

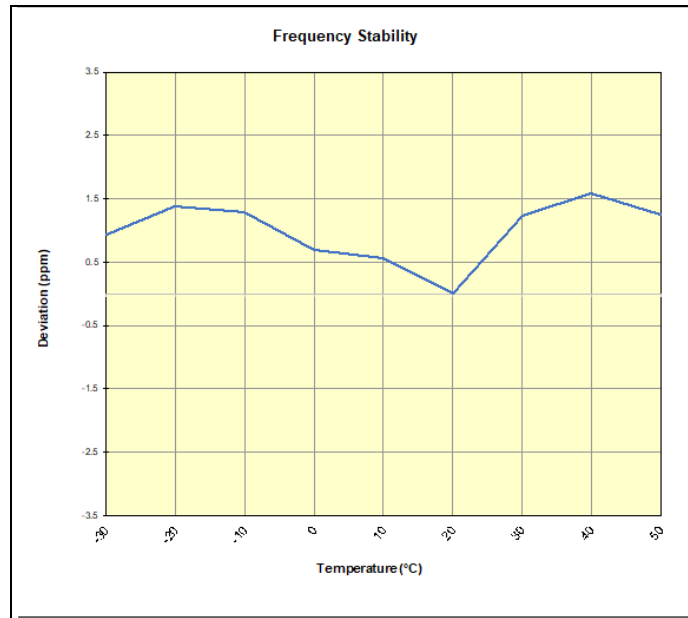
None

FCC ID: A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 128 of 130

**NR Band n77/78**

		Operating Frequency (Hz):		3,840,000,000	
		Ref. Voltage (VDC):		4.411	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.411	- 30	3,840,165,933	3,572	0.0000930
		- 20	3,840,167,634	5,273	0.0001373
		- 10	3,840,167,307	4,945	0.0001288
		0	3,840,165,009	2,648	0.0000690
		+ 10	3,840,164,536	2,174	0.0000566
		+ 20 (Ref)	3,840,162,361	0	0.0000000
		+ 30	3,840,167,091	4,730	0.0001232
		+ 40	3,840,168,472	6,110	0.0001591
		+ 50	3,840,167,198	4,836	0.0001259
Battery Endpoint	3.593	+ 20	3,840,162,045	-316	-0.0000082

**Table 7-55. NR Band n77/78 Frequency Stability Data**



**Plot 7-151. NR Band n77/78 Frequency Stability Chart**

FCC ID: A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2311010111-06.A3L	Test Dates: 10/27/2023 - 12/22/2023	EUT Type: Portable Handset	Page 129 of 130

## 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 27 of the FCC rules.

<b>FCC ID:</b> A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2311010111-06.A3L	<b>Test Dates:</b> 10/27/2023 - 12/22/2023	<b>EUT Type:</b> Portable Handset	Page 130 of 130