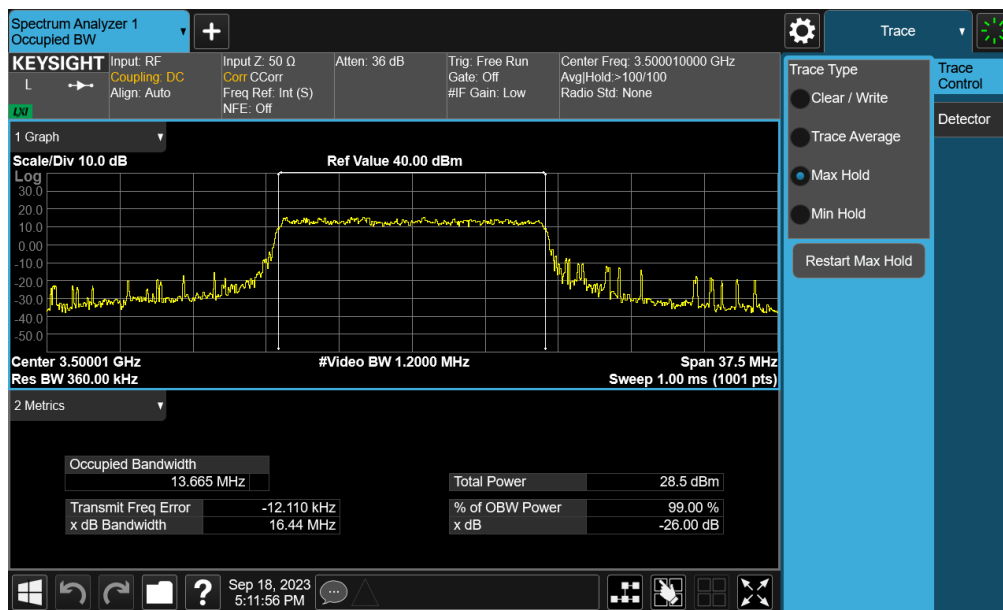
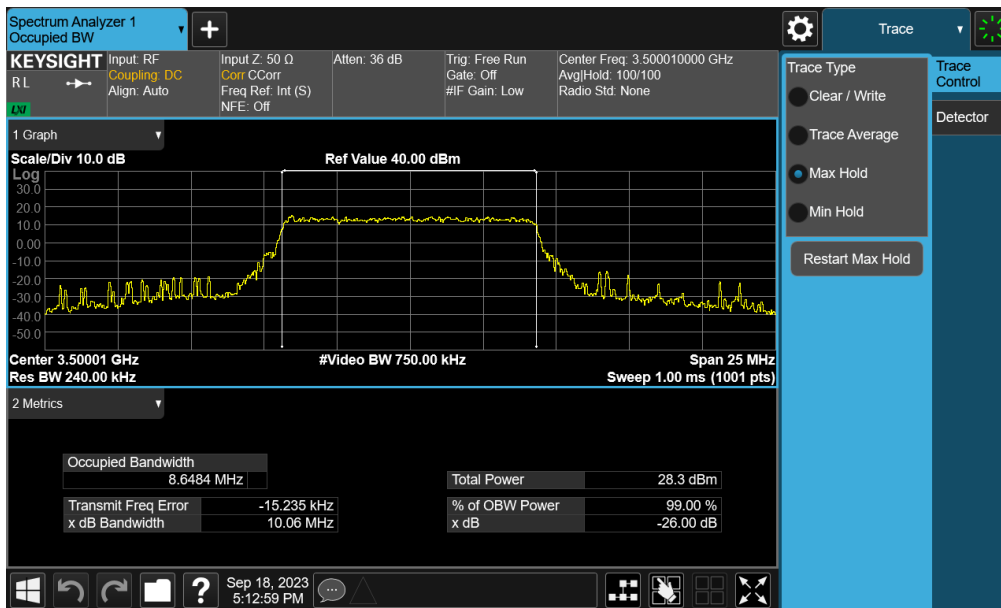
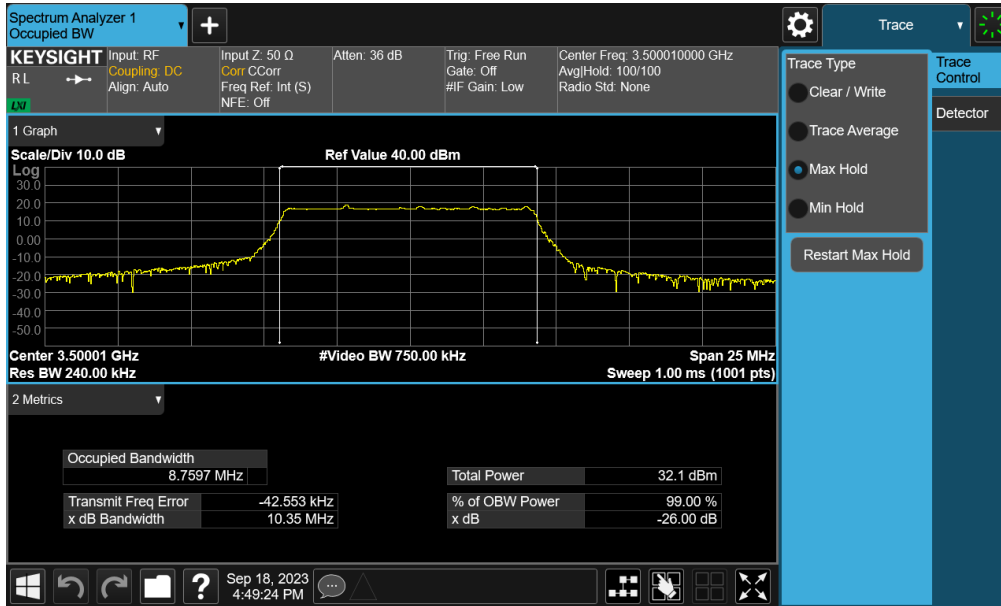


Plot 7-66. Occupied Bandwidth Plot (NR Band n77PC3 DoD- 15MHz QPSK - Full RB - Ant1)

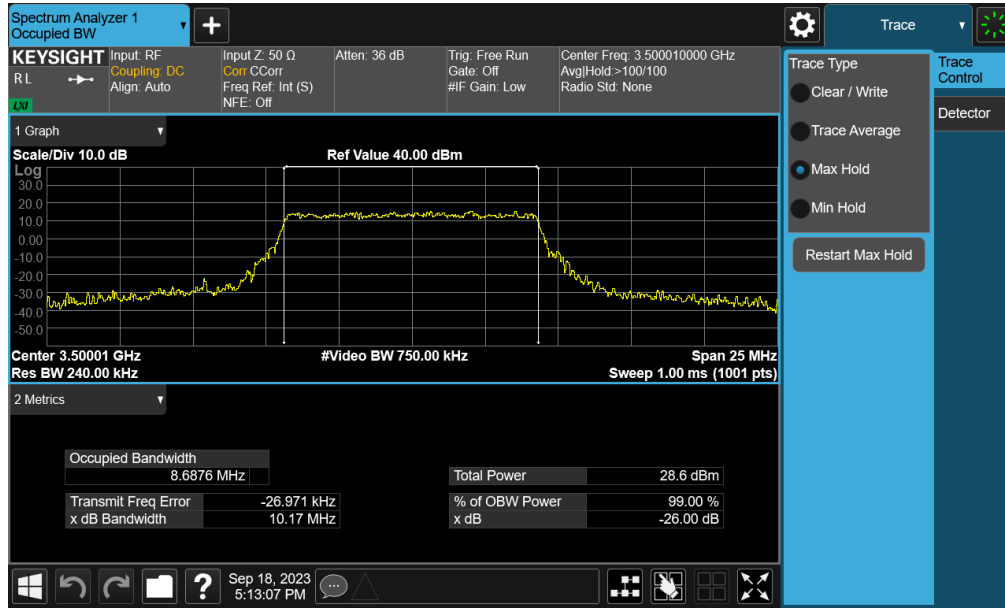


Plot 7-67. Occupied Bandwidth Plot (NR Band n77PC3 DoD- 15MHz 16-QAM - Full RB - Ant1)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 55 of 136



Plot 7-70. Occupied Bandwidth Plot (NR Band n77PC3 DoD- 10MHz 16-QAM - Full RB - Ant1)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 56 of 136

## 7.4 Spurious and Harmonic Emissions at Antenna Terminal

### Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

***For operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any spurious emission is -13dBm/MHz.***

### Test Procedure Used

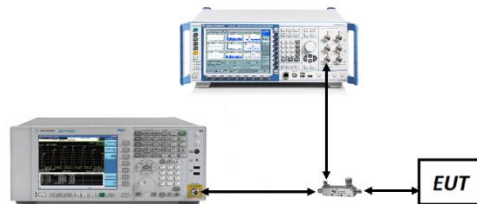
ANSI C63.26-2015 – Section 5.7.4

### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to the tenth harmonic of the highest transmit frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-3. Test Instrument & Measurement Setup**

### Test Notes

1. Per Part 27.53(l), and Part 27.53(n), compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

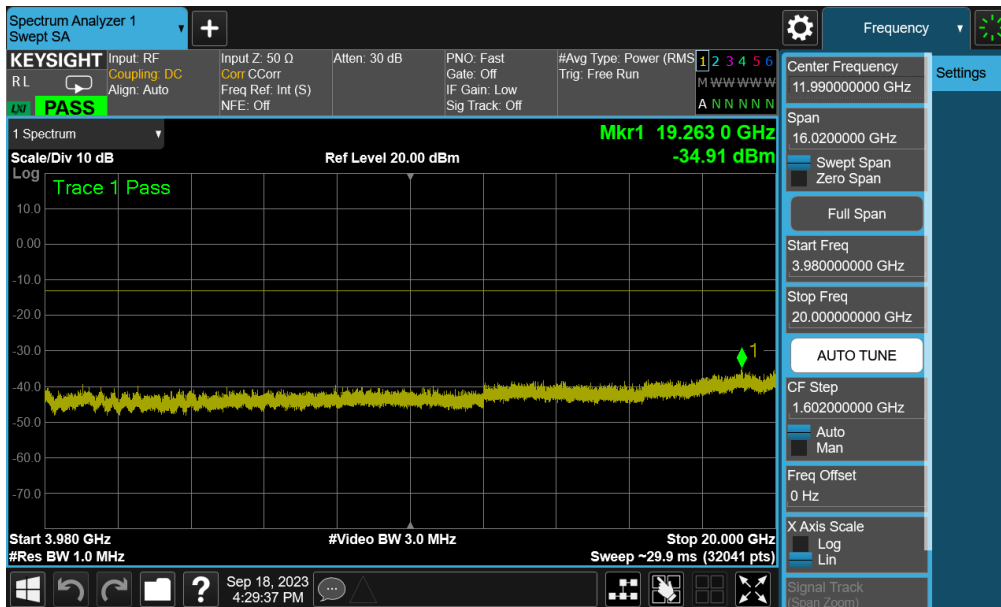
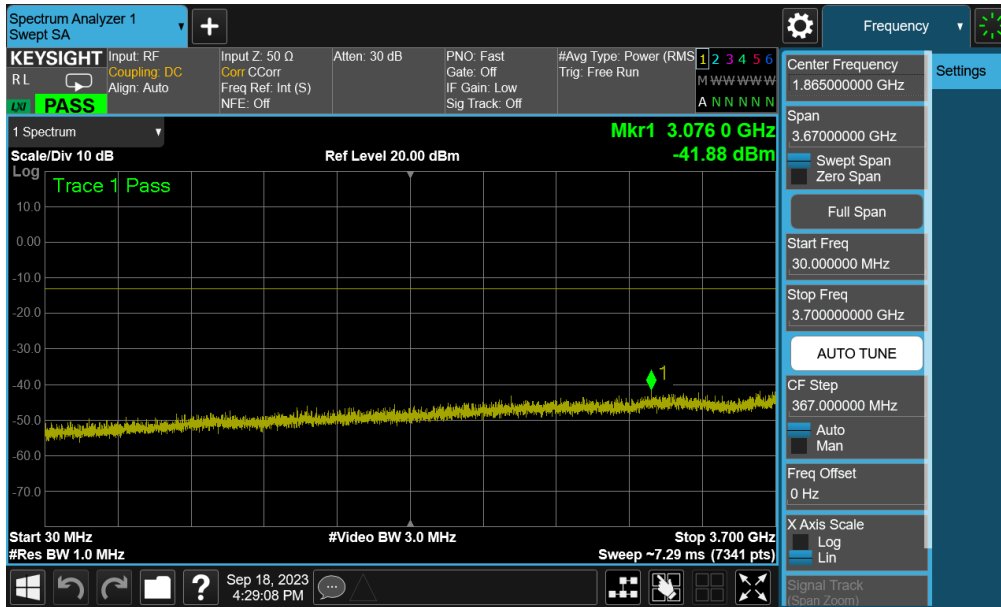
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 57 of 136

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC3 C Band	100MHz	Low	30.0 - 3700.0	-40.68	-13	-27.68
		Low	3980.0 - 20000.0	-35.35	-13	-22.35
		Low	20000.0 - 40000.0	-43.70	-13	-30.70
		Mid	30.0 - 3700.0	-42.27	-13	-29.27
		Mid	3980.0 - 20000.0	-35.69	-13	-22.69
		Mid	20000.0 - 40000.0	-43.88	-13	-30.88
		High	30.0 - 3700.0	-41.88	-13	-28.88
		High	3980.0 - 20000.0	-34.91	-13	-21.91
		High	20000.0 - 40000.0	-43.82	-13	-30.82
NR-n77 PC3 DoD Band	100MHz	Mid	30.0 - 3450.0	-41.80	-13	-28.80
		Mid	3550.0 - 20000.0	-35.21	-13	-22.21
		Mid	20000.0 - 40000.0	-43.70	-13	-30.70

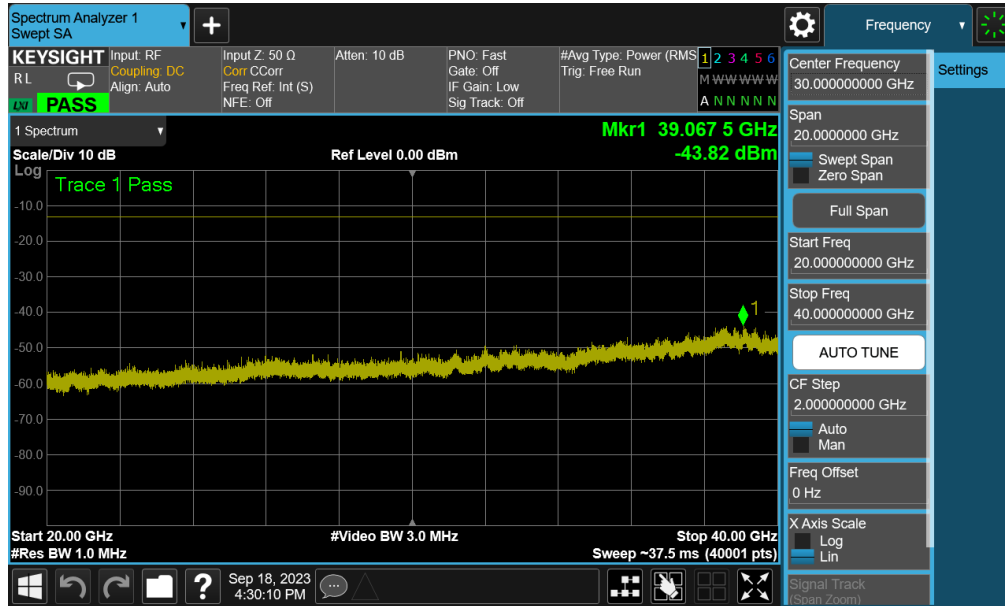
**Table 7-12. Conducted Emission Test Results – Ant1**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 58 of 136

# NR Band n77 – Ant1



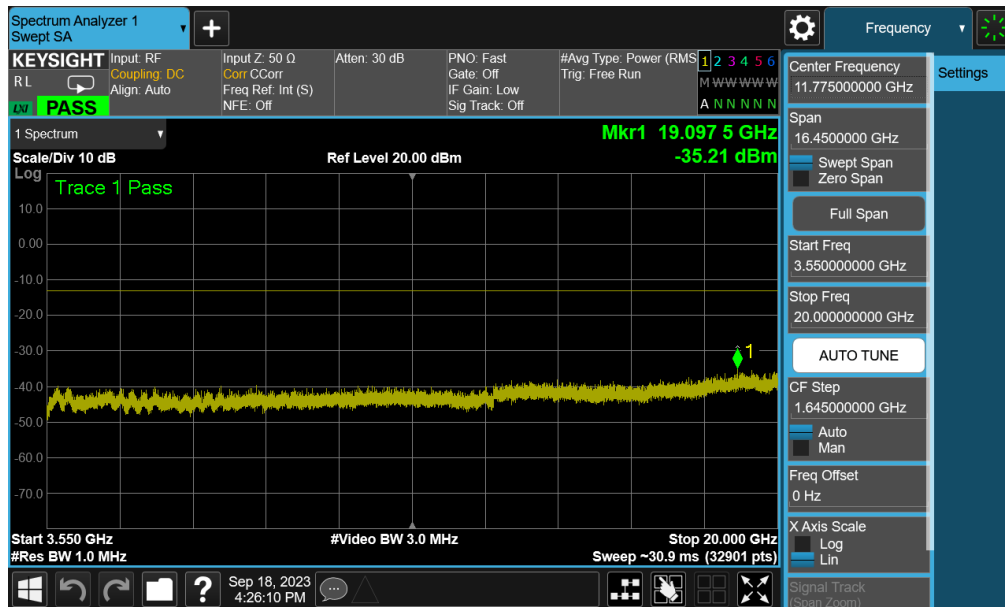
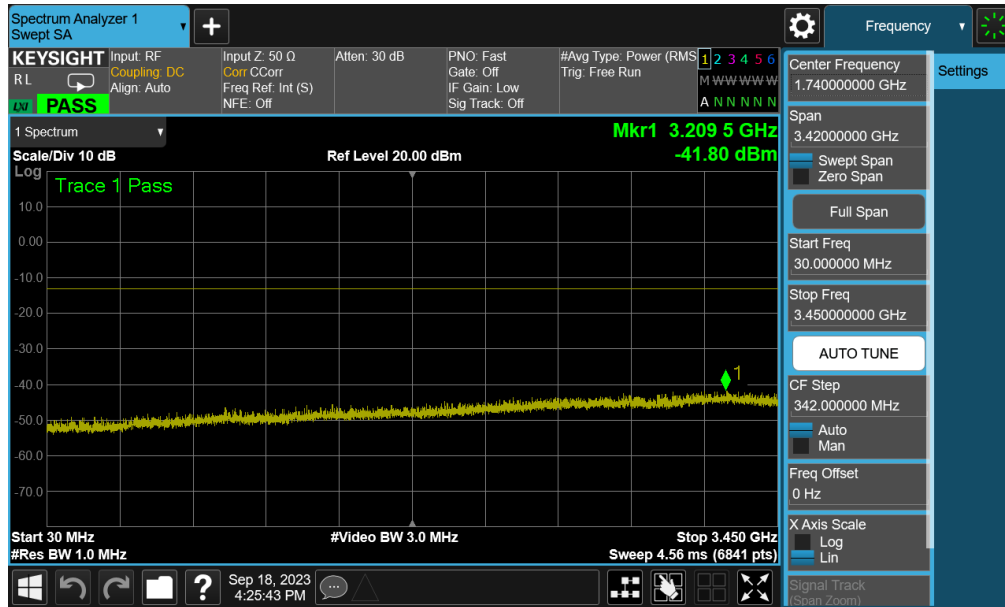
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 59 of 136



Plot 7-73. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - High Channel - Ant1)

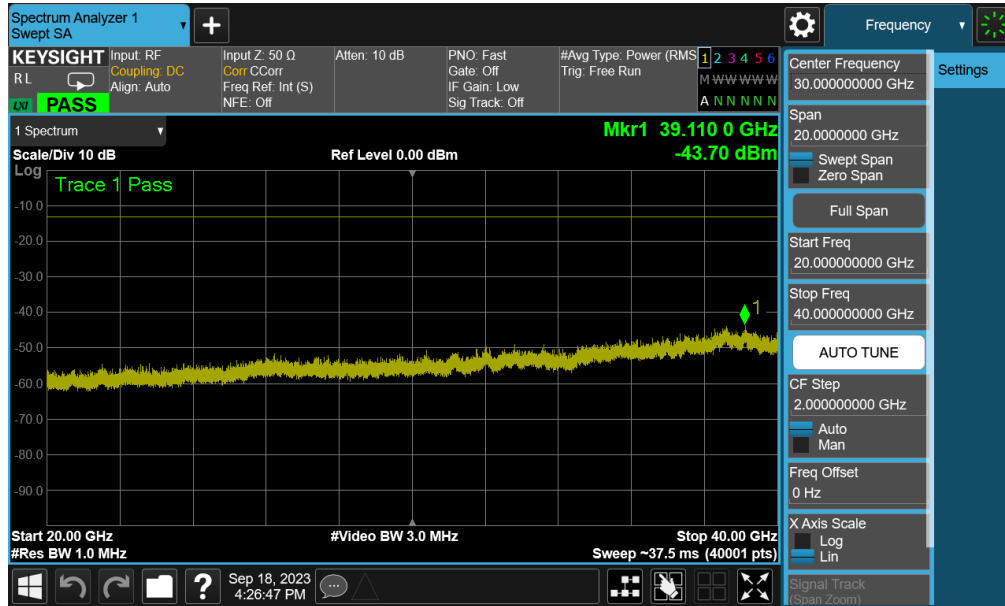
FCC ID: A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 60 of 136

## NR Band n77 (DoD Band) – Ant1



FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-76. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1 RB - Mid Channel - Ant1)

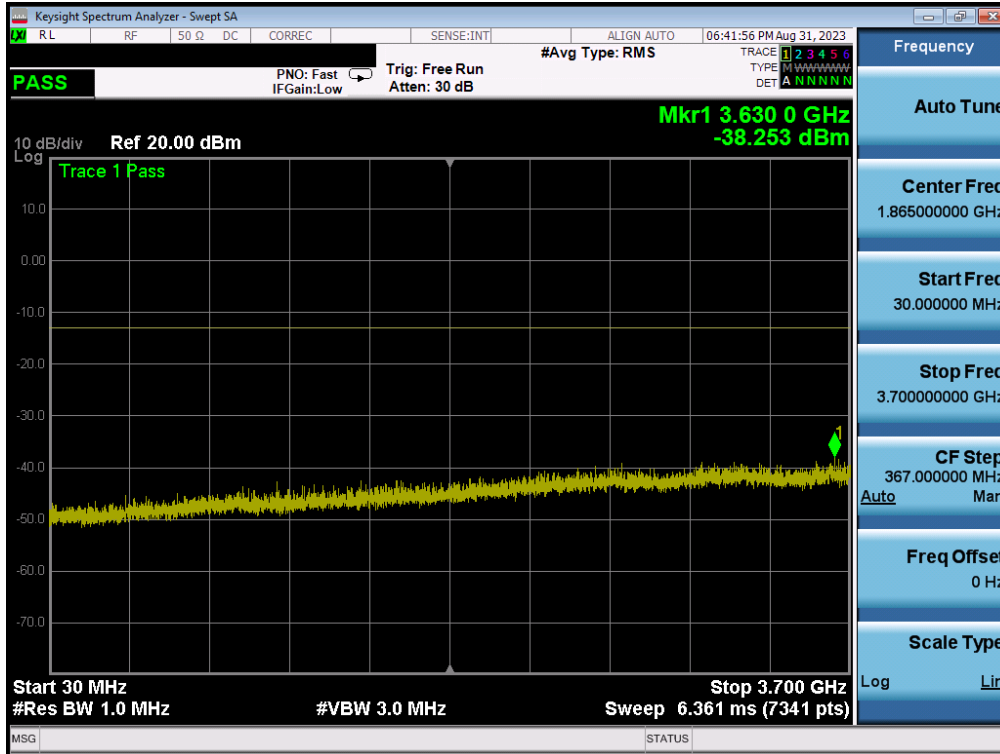
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 62 of 136

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC3 C Band	100MHz	Low	30.0 - 3700.0	-38.64	-13	-25.64
		Low	3980.0 - 20000.0	-29.99	-13	-16.99
		Low	20000.0 - 40000.0	-40.96	-13	-27.96
		Mid	30.0 - 3700.0	-37.81	-13	-24.81
		Mid	3980.0 - 20000.0	-30.26	-13	-17.26
		Mid	20000.0 - 40000.0	-40.43	-13	-27.43
		High	30.0 - 3700.0	-38.25	-13	-25.25
		High	3980.0 - 20000.0	-29.66	-13	-16.66
		High	20000.0 - 40000.0	-40.05	-13	-27.05
NR-n77PC3 DoD Band	100MHz	Mid	30.0 - 3450.0	-37.23	-13	-24.23
		Mid	3550.0 - 20000.0	-30.65	-13	-17.65
		Mid	20000.0 - 40000.0	-40.71	-13	-27.71

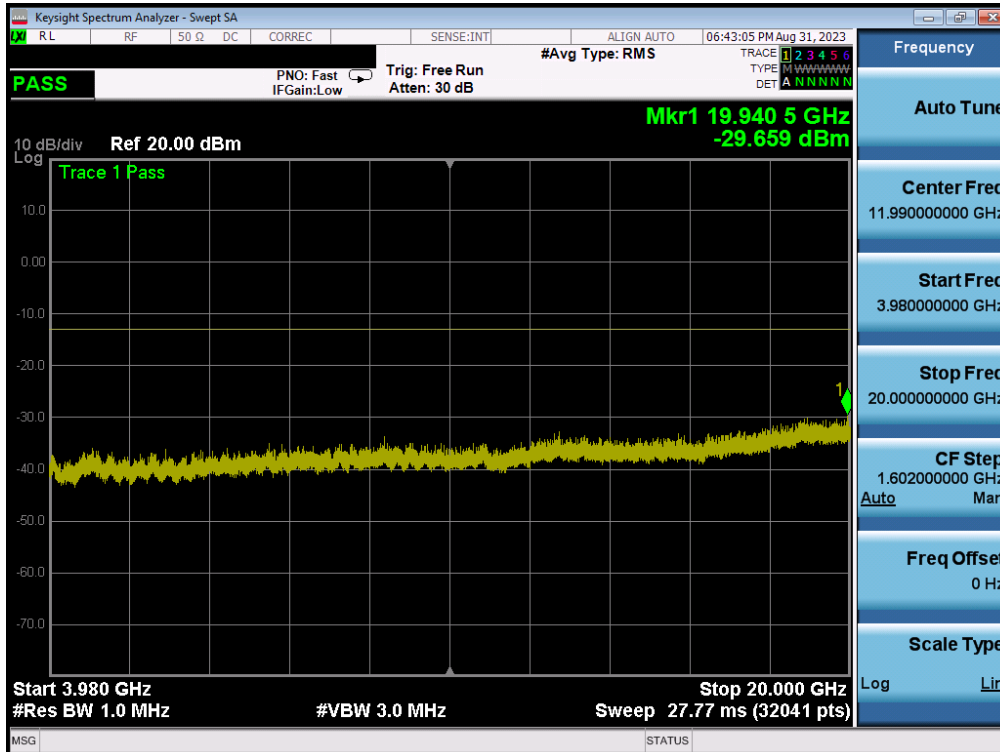
**Table 7-13. Conducted Emission Test Results – Ant2**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 63 of 136

## NR Band n77 – Ant2

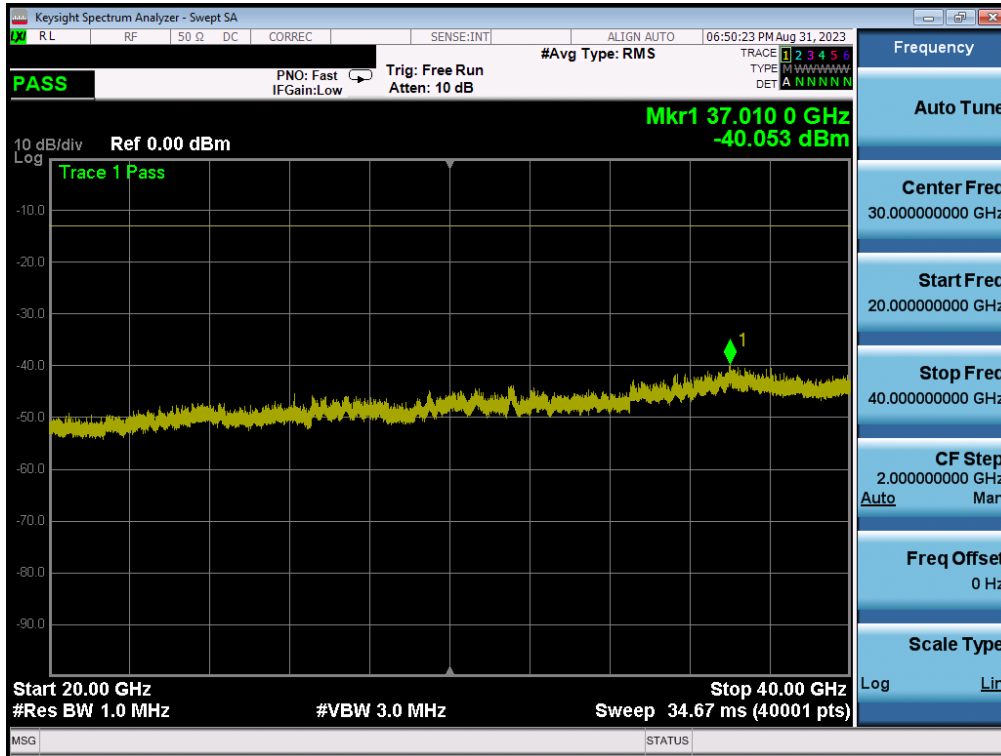


Plot 7-77. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - High Channel - Ant2)



Plot 7-78. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - High Channel - Ant2)

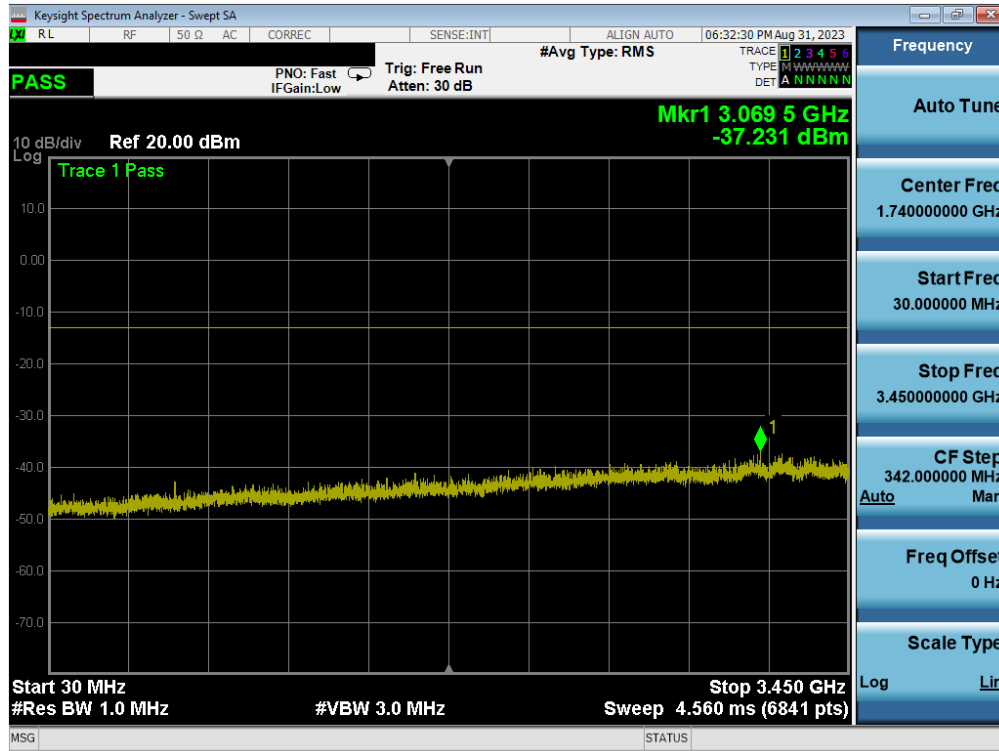
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 64 of 136



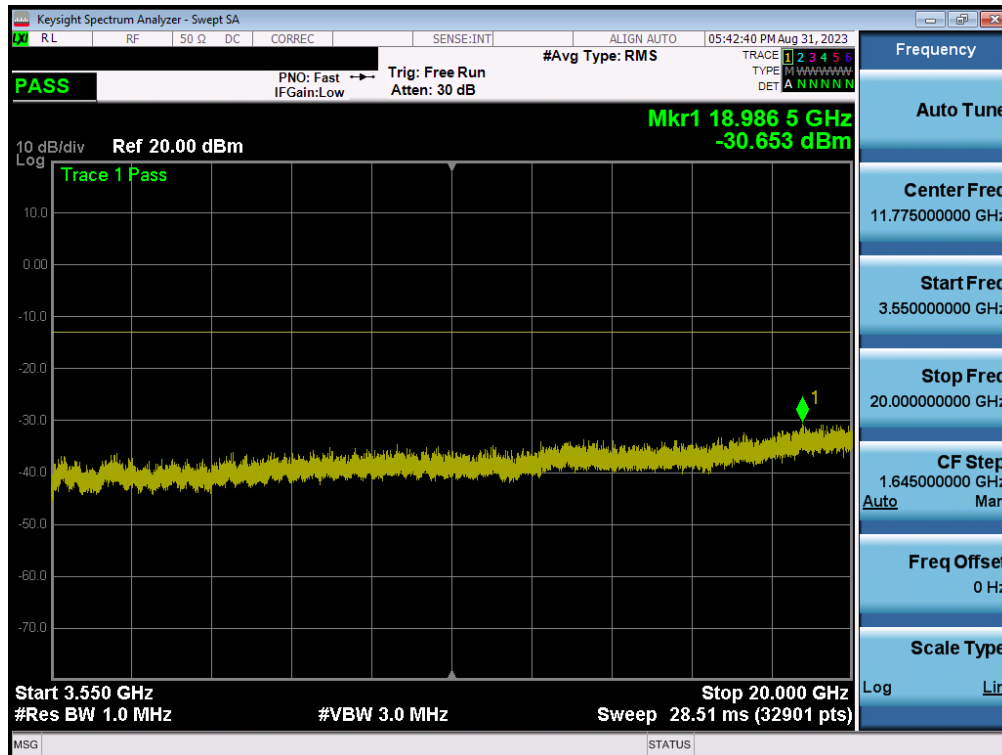
Plot 7-79. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - High Channel - Ant2)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 65 of 136

## NR Band n77 (DoD Band) – Ant2



Plot 7-80. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1 RB - Mid Channel - Ant2)



Plot 7-81. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1 RB - Mid Channel - Ant2)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 66 of 136

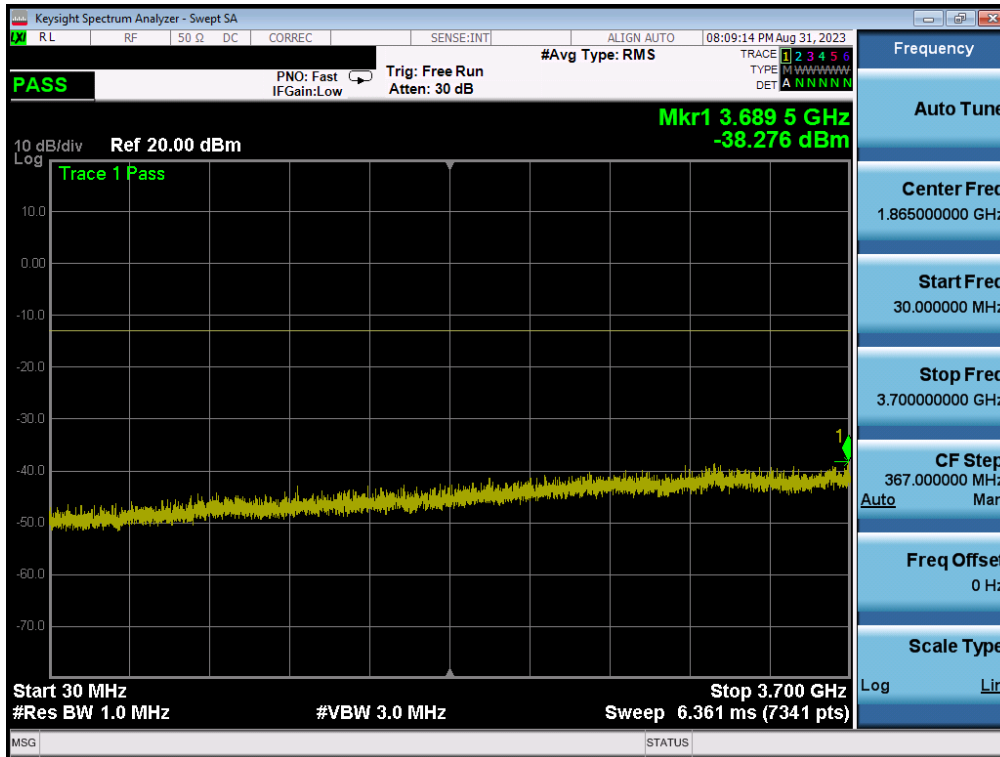


Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC3 C Band	100MHz	Low	30.0 - 3700.0	-37.71	-13	-24.71
		Low	3980.0 - 20000.0	-29.99	-13	-16.99
		Low	20000.0 - 40000.0	-40.63	-13	-27.63
		Mid	30.0 - 3700.0	-37.79	-13	-24.79
		Mid	3980.0 - 20000.0	-29.99	-13	-16.99
		Mid	20000.0 - 40000.0	-39.97	-13	-26.97
		High	30.0 - 3700.0	-38.28	-13	-25.28
		High	3980.0 - 20000.0	-29.78	-13	-16.78
		High	20000.0 - 40000.0	-41.15	-13	-28.15
NR-n77PC3 DoD Band	100MHz	Mid	30.0 - 3450.0	-37.79	-13	-24.79
		Mid	3550.0 - 20000.0	-30.40	-13	-17.40
		Mid	20000.0 - 40000.0	-41.28	-13	-28.28

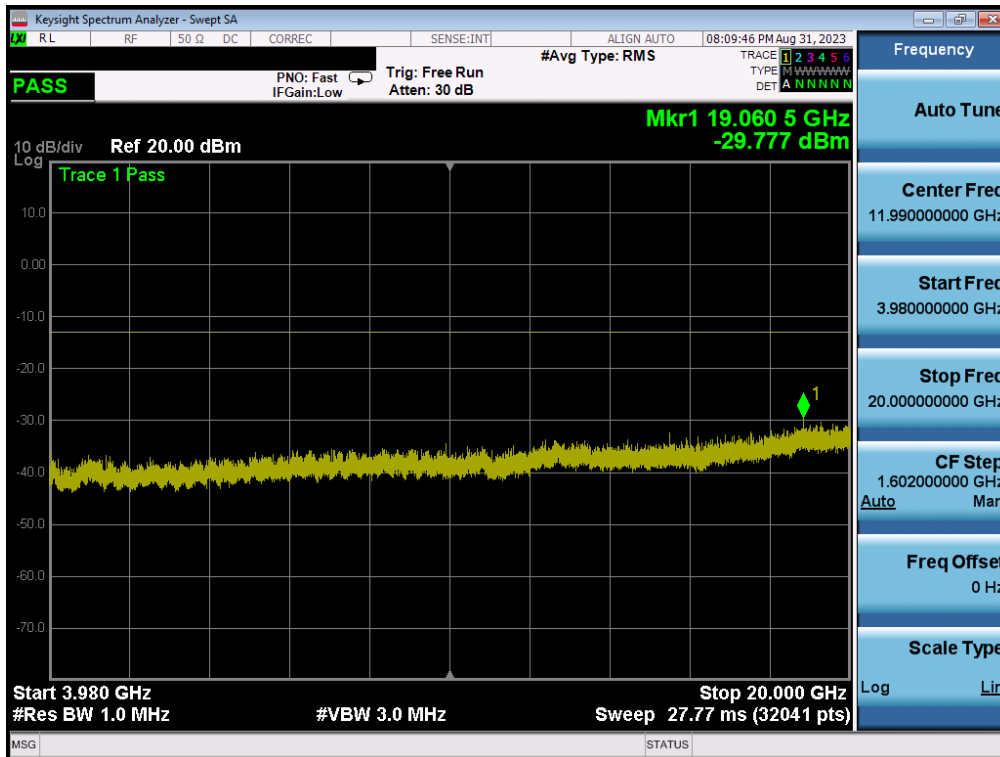
**Table 7-14. Conducted Emission Test Results – Ant3**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 68 of 136

### NR Band n77 – Ant3



Plot 7-83. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - High Channel - Ant3)



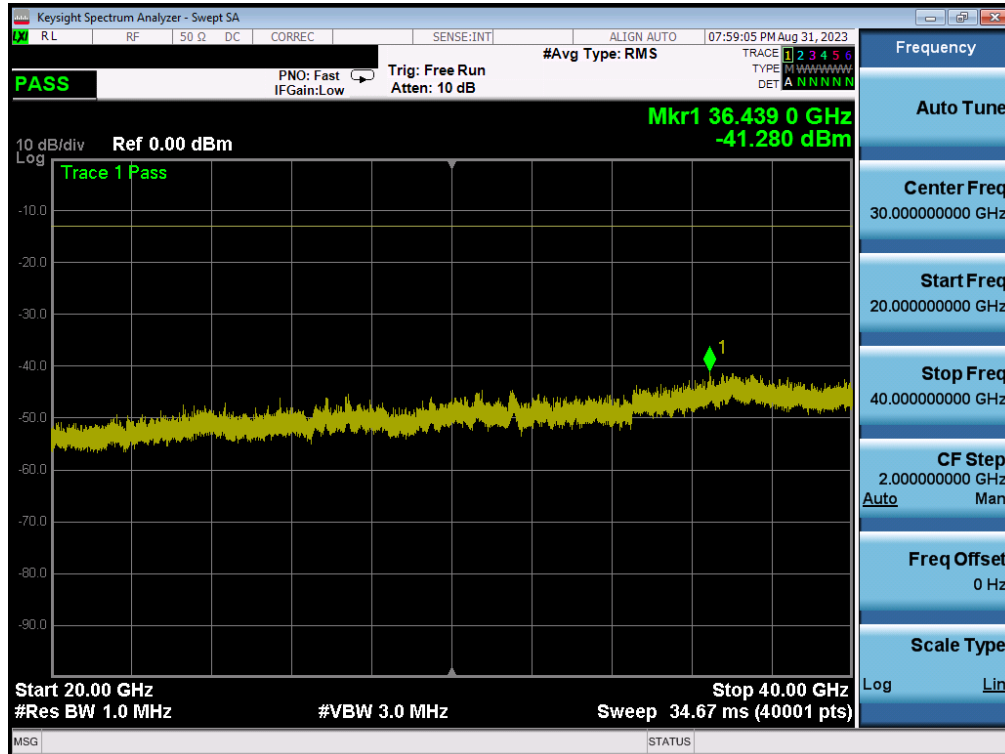
Plot 7-84. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - High Channel - Ant3)

FCC ID: A3LSMS928B		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 69 of 136	









Plot 7-88. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1 RB - Mid Channel - Ant3)

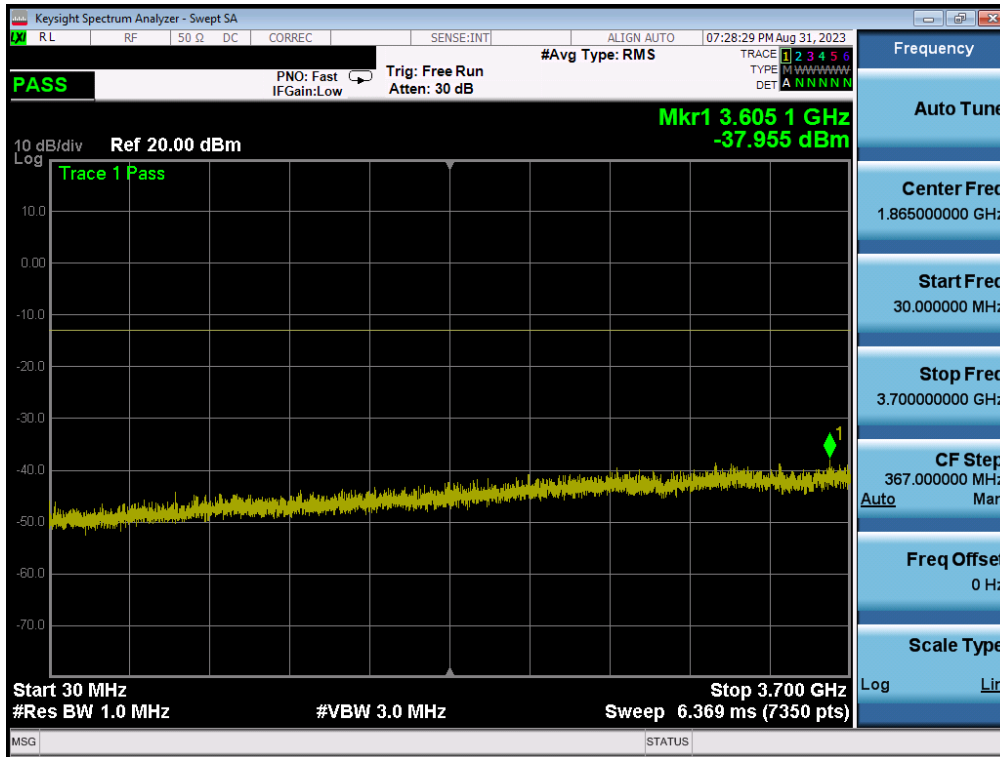
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 72 of 136

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC3 C Band	100MHz	Low	30.0 - 3700.0	-38.36	-13	-25.36
		Low	3980.0 - 20000.0	-29.78	-13	-16.78
		Low	20000.0 - 40000.0	-40.46	-13	-27.46
		Mid	30.0 - 3700.0	-37.96	-13	-24.96
		Mid	3980.0 - 20000.0	-29.76	-13	-16.76
		Mid	20000.0 - 40000.0	-40.82	-13	-27.82
		High	30.0 - 3700.0	-37.41	-13	-24.41
		High	3980.0 - 20000.0	-30.46	-13	-17.46
		High	20000.0 - 40000.0	-40.96	-13	-27.96
NR-n77PC3 DoD Band	100MHz	Mid	30.0 - 3450.0	-37.93	-13	-24.93
		Mid	3550.0 - 20000.0	-30.26	-13	-17.26
		Mid	20000.0 - 40000.0	-40.26	-13	-27.26

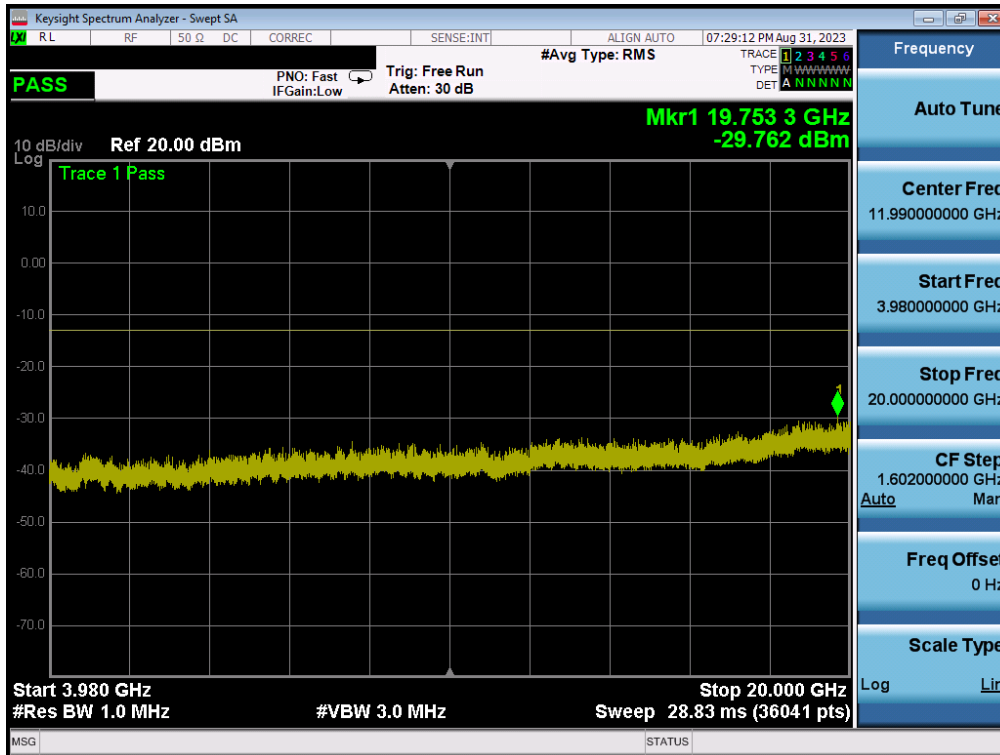
**Table 7-15. Conducted Emission Test Results – Ant4**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 73 of 136

# NR Band n77 – Ant4

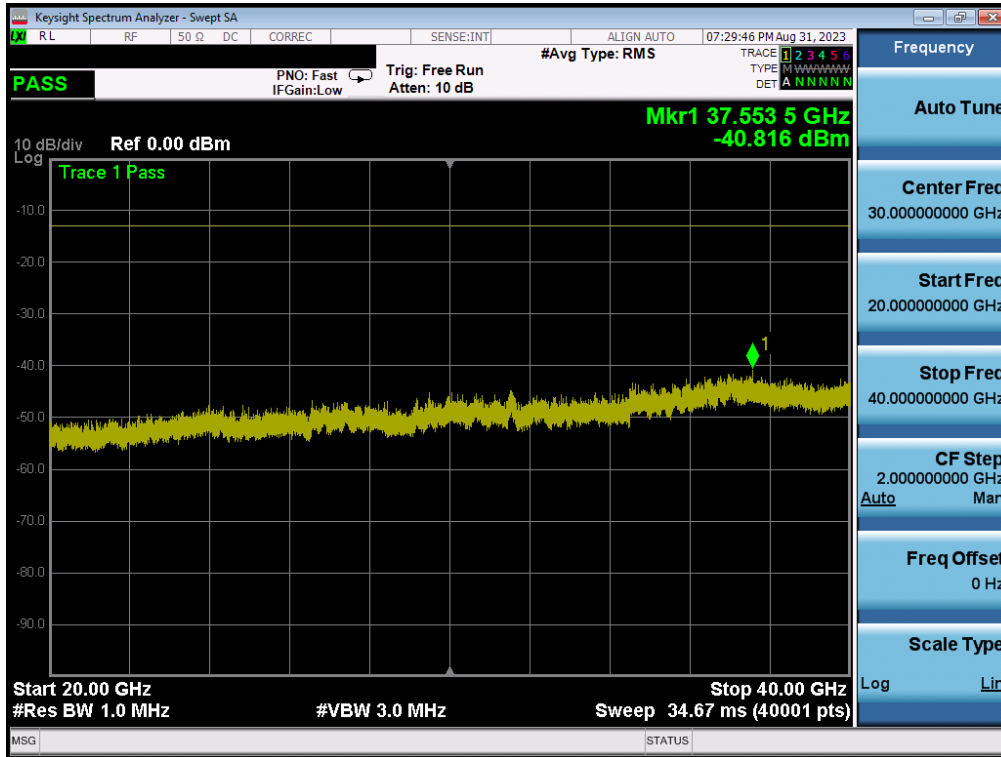


Plot 7-89. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - Mid Channel - Ant4)



Plot 7-90. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - Mid Channel - Ant4)

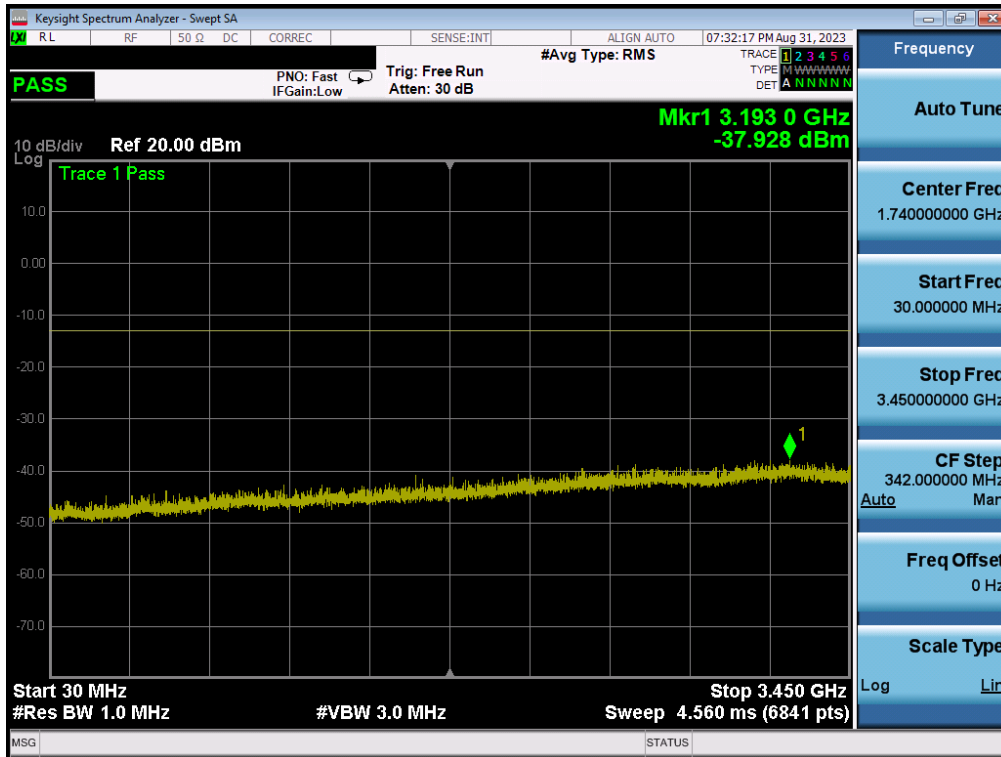
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 74 of 136



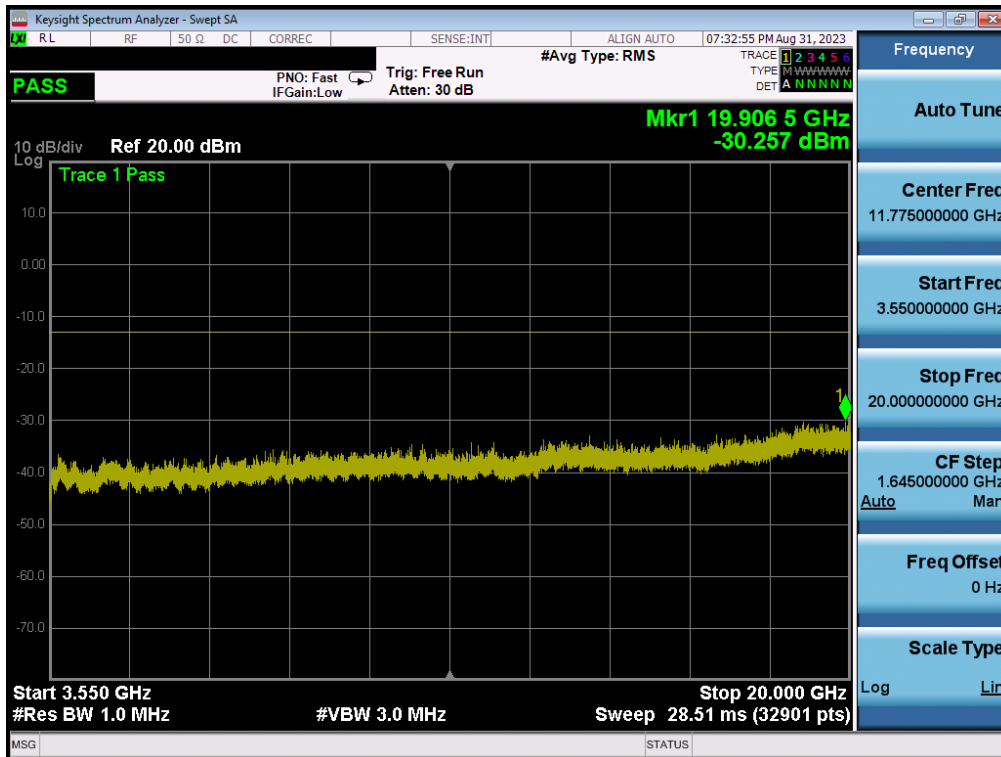
Plot 7-91. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - 1 RB - Mid Channel - Ant4)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 75 of 136

# NR Band n77 (DoD Band) – Ant4



Plot 7-92. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1 RB - Mid Channel - Ant4)



Plot 7-93. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - 1 RB - Mid Channel - Ant4)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 76 of 136





## 7.5 Band Edge Emissions at Antenna Terminal

### Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

***For operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any out-of-band emission is -13dBm/MHz.***

### Test Procedure Used

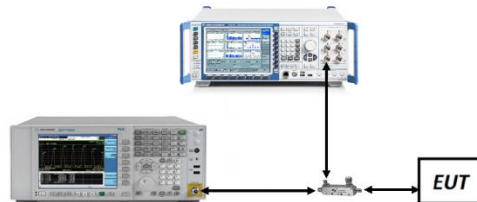
ANSI C63.26-2015 – Section 5.7.3

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq$  1% of the emission bandwidth
4. VBW  $\geq$  3 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq$  2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-4. Test Instrument & Measurement Setup**

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 78 of 136

**Test Notes**

1. Per Part 27.53(l), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
2. Per Part 27.53(n), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.
3. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
4. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

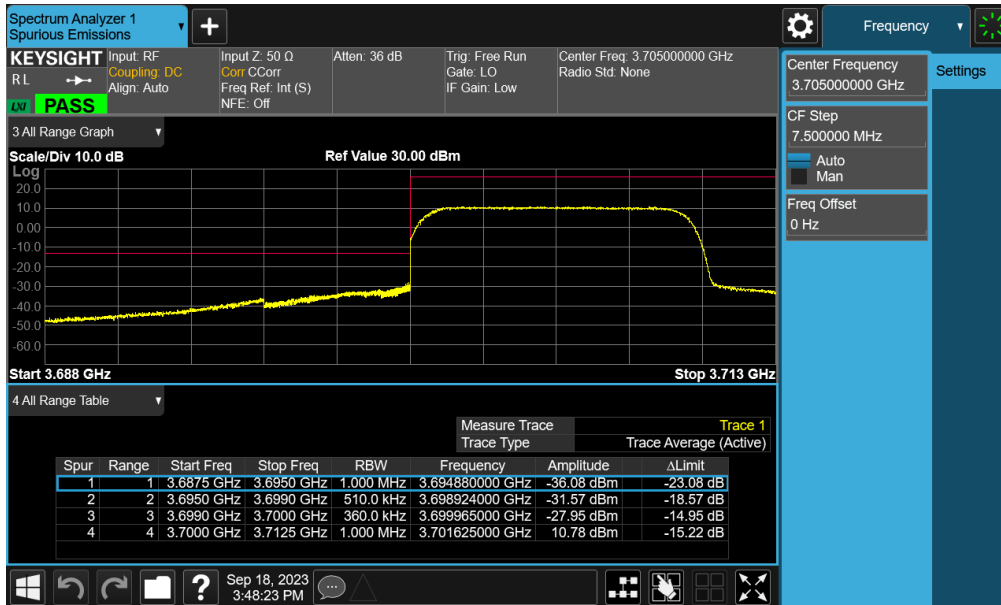
<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 79 of 136

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC3 C Band	100MHz	Low	Band Edge	-34.09	-13	-21.09
		High	Band Edge	-38.77	-13	-25.77
	90MHz	Low	Band Edge	-34.84	-13	-21.84
		High	Band Edge	-39.72	-13	-26.72
	80MHz	Low	Band Edge	-33.68	-13	-20.68
		High	Band Edge	-37.81	-13	-24.81
	70MHz	Low	Band Edge	-34.18	-13	-21.18
		High	Band Edge	-38.33	-13	-25.33
	60MHz	Low	Band Edge	-34.72	-13	-21.72
		High	Band Edge	-38.32	-13	-25.32
	50MHz	Low	Band Edge	-32.62	-13	-19.62
		High	Band Edge	-36.60	-13	-23.60
	40MHz	Low	Band Edge	-33.35	-13	-20.35
		High	Band Edge	-36.08	-13	-23.08
	30MHz	Low	Band Edge	-33.11	-13	-20.11
		High	Band Edge	-35.36	-13	-22.36
	20MHz	Low	Band Edge	-31.53	-13	-18.53
		High	Band Edge	-33.48	-13	-20.48
	15MHz	Low	Band Edge	-28.82	-13	-15.82
		High	Band Edge	-33.39	-13	-20.39
10MHz	Low	Band Edge	-27.95	-13	-14.95	
	High	Band Edge	-33.35	-13	-20.35	

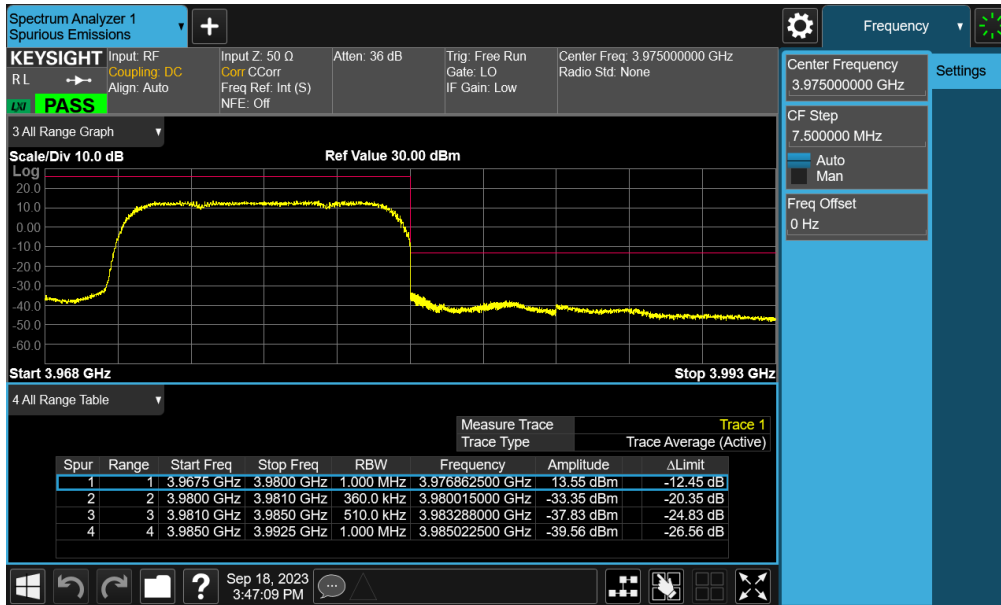
**Table 7-16. Conducted Band Edge Test Results – Ant1**

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 80 of 136

# NR Band n77 – Ant1



Plot 7-95. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)



Plot 7-96. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB - Ant1)

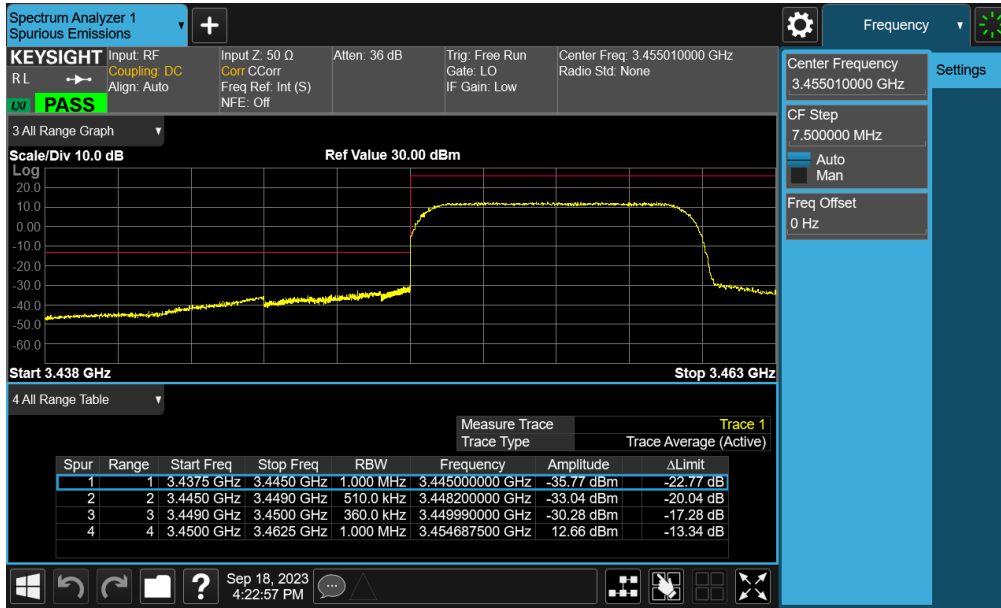
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 81 of 136

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77 PC3 DoD Band	100MHz	Low	Band Edge	-37.44	-13	-24.44
		High	Band Edge	-38.20	-13	-25.20
	90MHz	Low	Band Edge	-37.60	-13	-24.60
		High	Band Edge	-38.47	-13	-25.47
	80MHz	Low	Band Edge	-37.32	-13	-24.32
		High	Band Edge	-37.28	-13	-24.28
	70MHz	Low	Band Edge	-37.59	-13	-24.59
		High	Band Edge	-38.84	-13	-25.84
	60MHz	Low	Band Edge	-38.10	-13	-25.10
		High	Band Edge	-39.06	-13	-26.06
	50MHz	Low	Band Edge	-35.45	-13	-22.45
		High	Band Edge	-37.34	-13	-24.34
	40MHz	Low	Band Edge	-35.50	-13	-22.50
		High	Band Edge	-37.23	-13	-24.23
	30MHz	Low	Band Edge	-34.64	-13	-21.64
		High	Band Edge	-36.95	-13	-23.95
	20MHz	Low	Band Edge	-34.20	-13	-21.20
		High	Band Edge	-37.18	-13	-24.18
	15MHz	Low	Band Edge	-32.93	-13	-19.93
		High	Band Edge	-34.55	-13	-21.55
10MHz	Low	Band Edge	-30.28	-13	-17.28	
	High	Band Edge	-32.73	-13	-19.73	

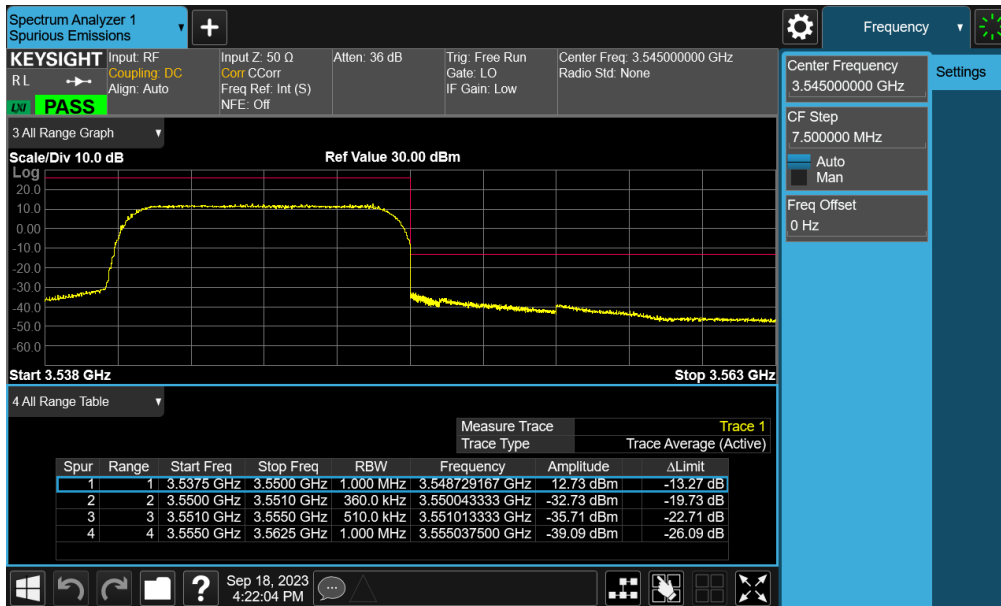
**Table 7-17. Conducted Band Edge Test Results – Ant1**

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 82 of 136

## NR Band n77 (DoD Band) – Ant1



Plot 7-97. Lower ACP Plot (NR Band n77 (DoD) - 10MHz CP-OFDM-QPSK – Full RB - Ant1)



Plot 7-98. Upper ACP Plot (NR Band n77 (DoD) - 10MHz CP-OFDM-QPSK – Full RB - Ant1)

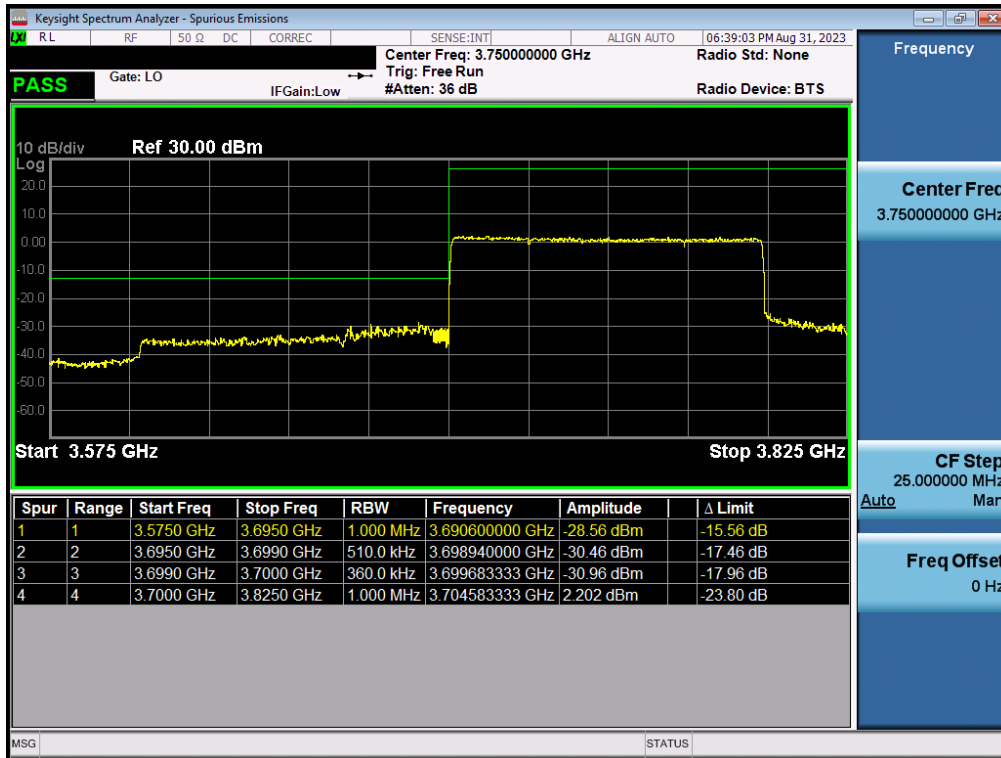
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 83 of 136

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC3 C Band	100MHz	Low	Band Edge	-28.56	-13	-15.56
		High	Band Edge	-33.47	-13	-20.47
NR-n77PC3 DoD Band	100MHz	Low	Band Edge	-23.03	-13	-10.03
		High	Band Edge	-20.67	-13	-7.67

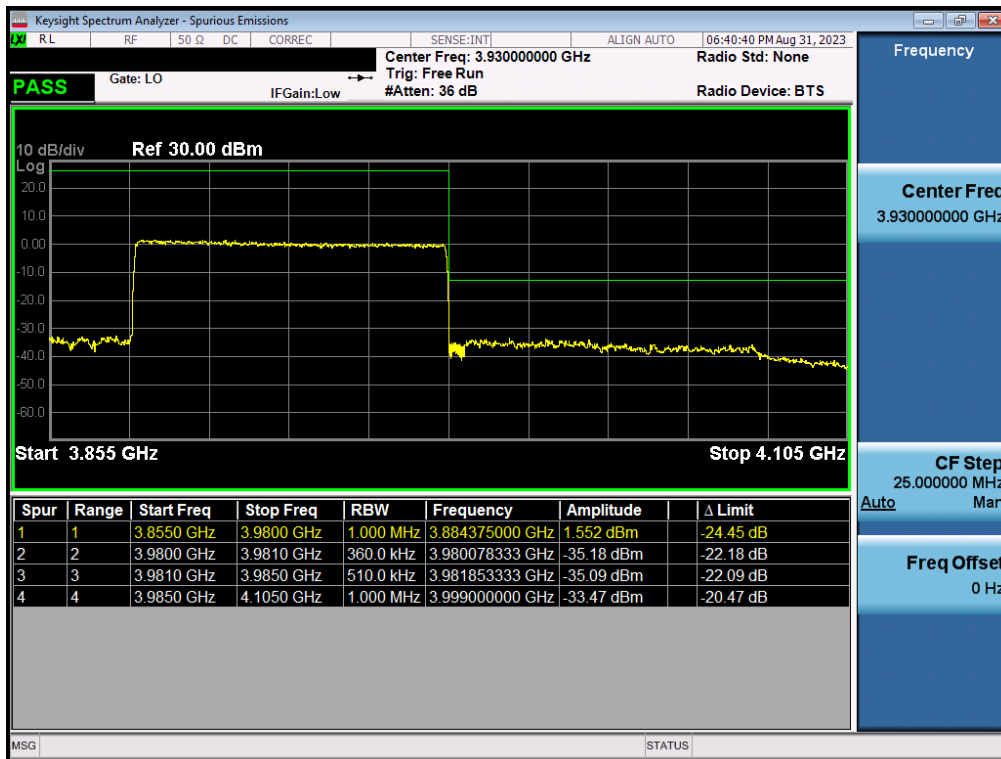
**Table 7-18. Conducted Band Edge Test Results – Ant2**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 84 of 136

# NR Band n77 – Ant2



Plot 7-99. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - Ant2)

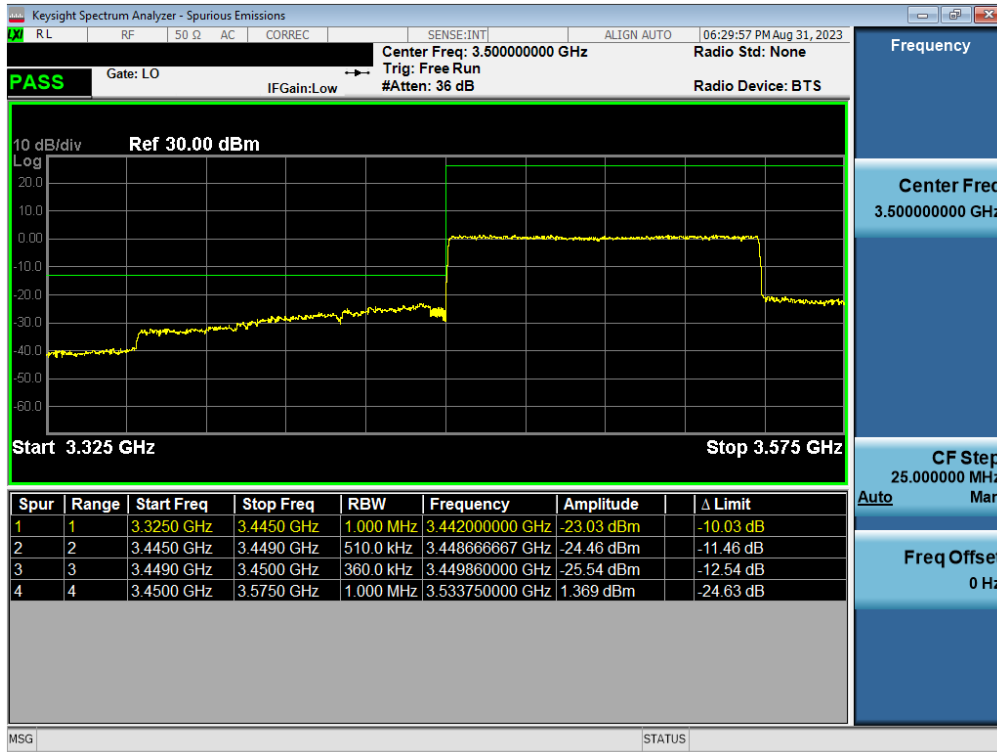


Plot 7-100. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - Ant2)

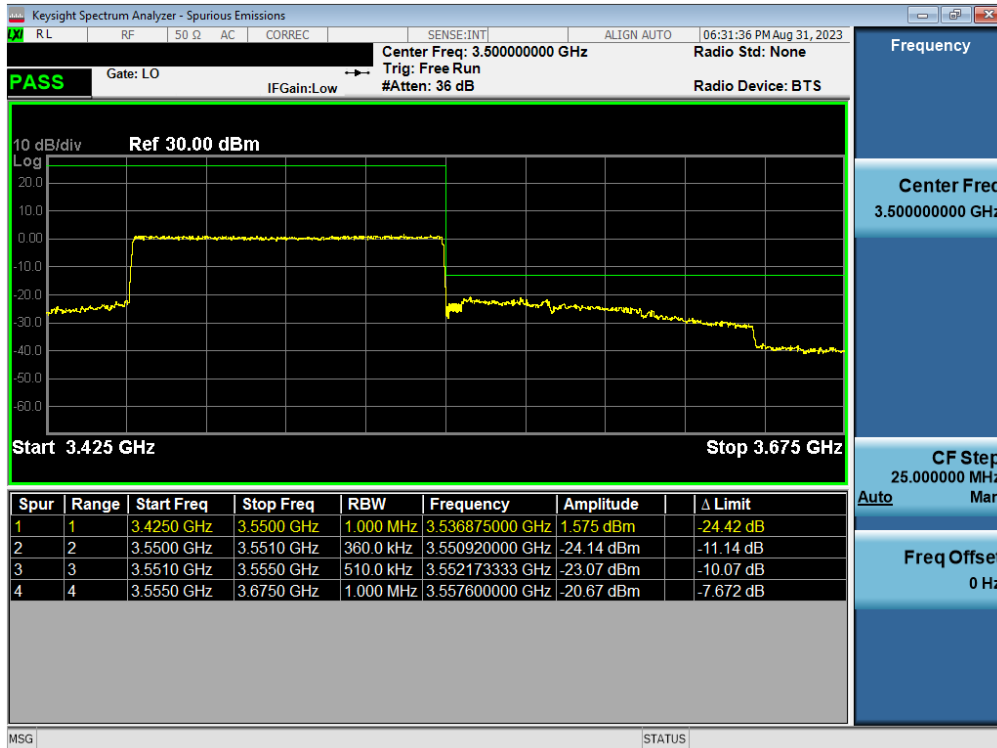
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 85 of 136



# NR Band n77 (DoD Band) – Ant2



Plot 7-101. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - Ant2)



Plot 7-102. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - Ant2)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 86 of 136

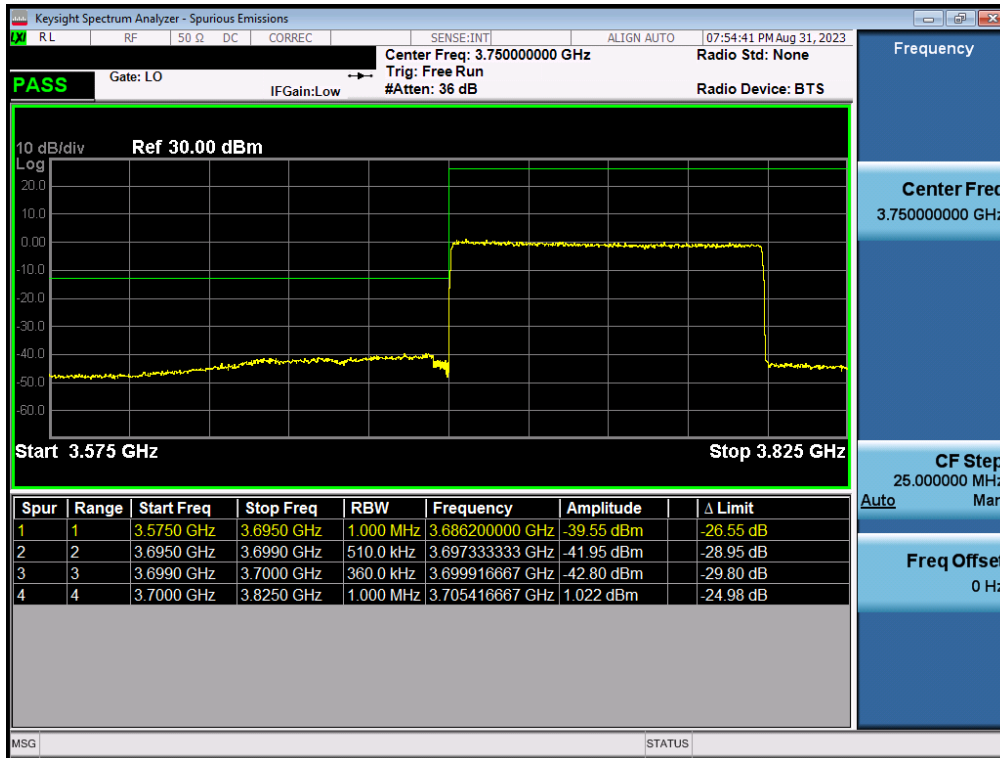


Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC3 C Band	100MHz	Low	Band Edge	-39.55	-13	-26.55
		High	Band Edge	-41.94	-13	-28.94
NR-n77PC3 DoD Band	100MHz	Low	Band Edge	-42.98	-13	-29.98
		High	Band Edge	-41.80	-13	-28.80

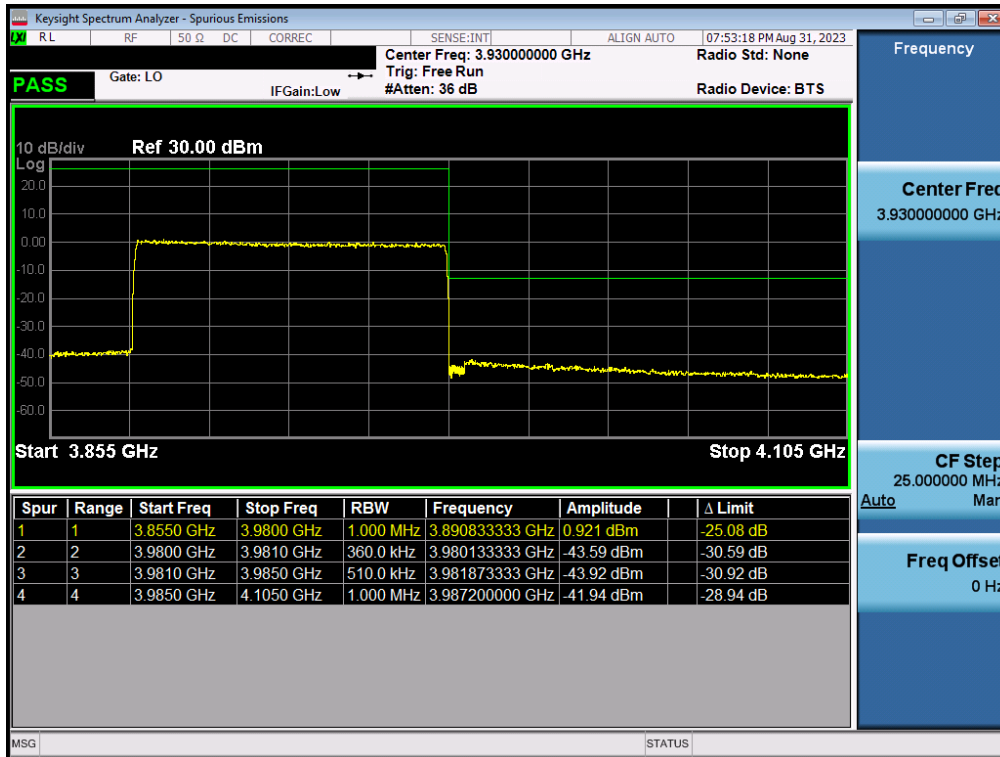
**Table 7-19. Conducted Band Edge Test Results – Ant3**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 87 of 136

### NR Band n77 – Ant3



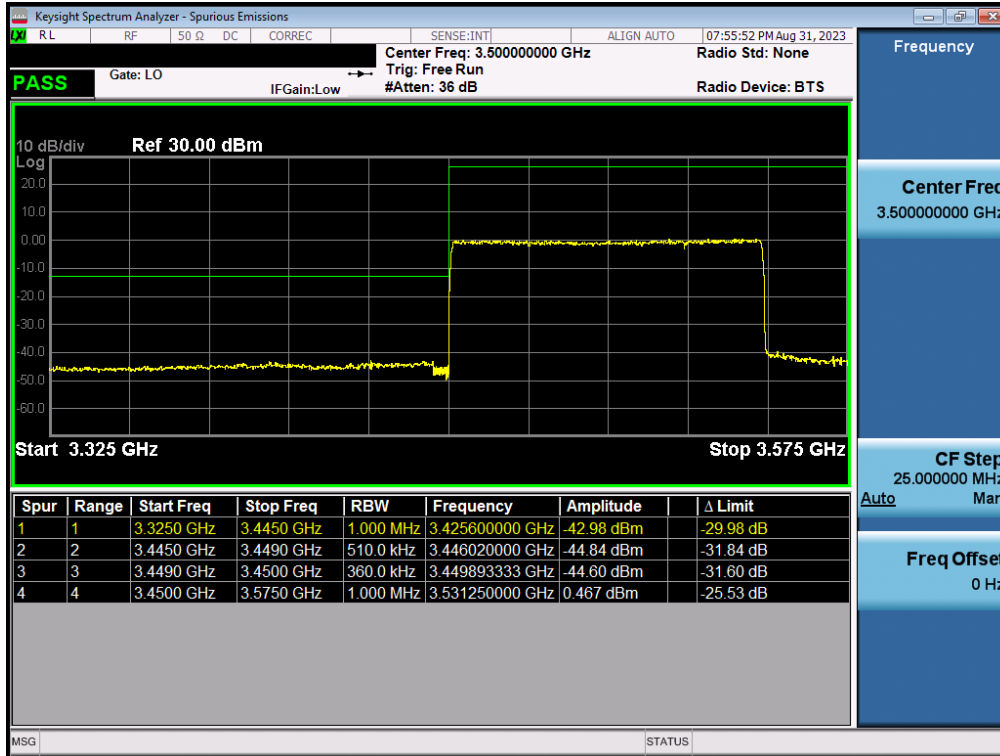
Plot 7-103. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - Ant3)



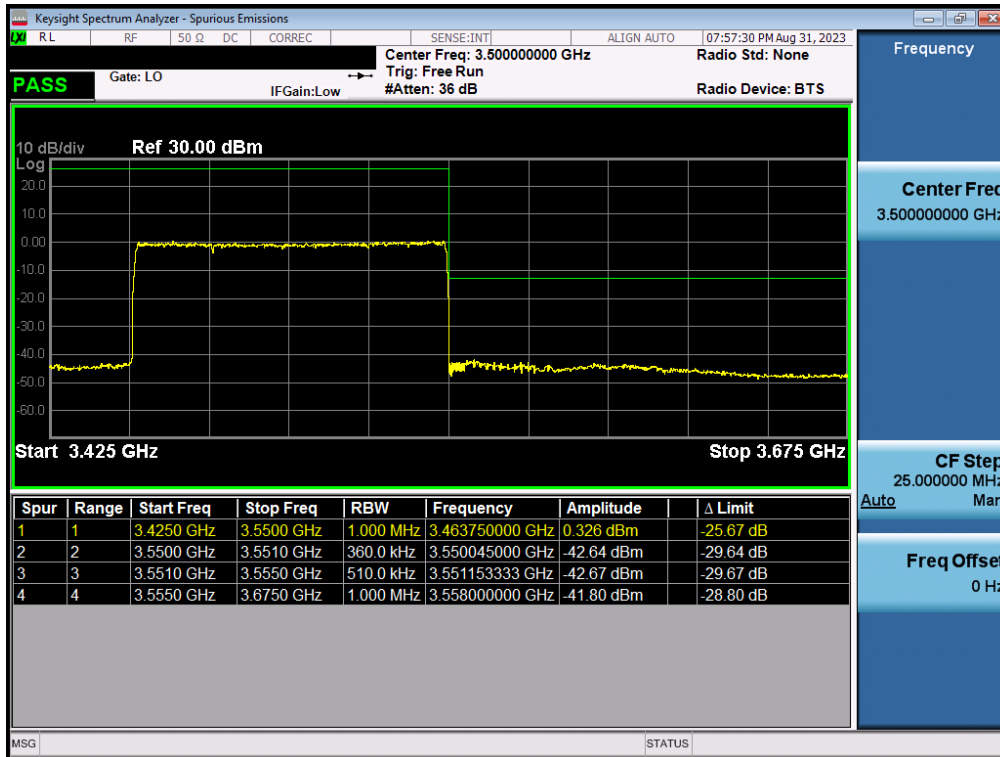
Plot 7-104. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - Ant3)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 88 of 136

# NR Band n77 (DoD Band) – Ant3



Plot 7-105. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - Ant3)



Plot 7-106. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - Ant3)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 89 of 136

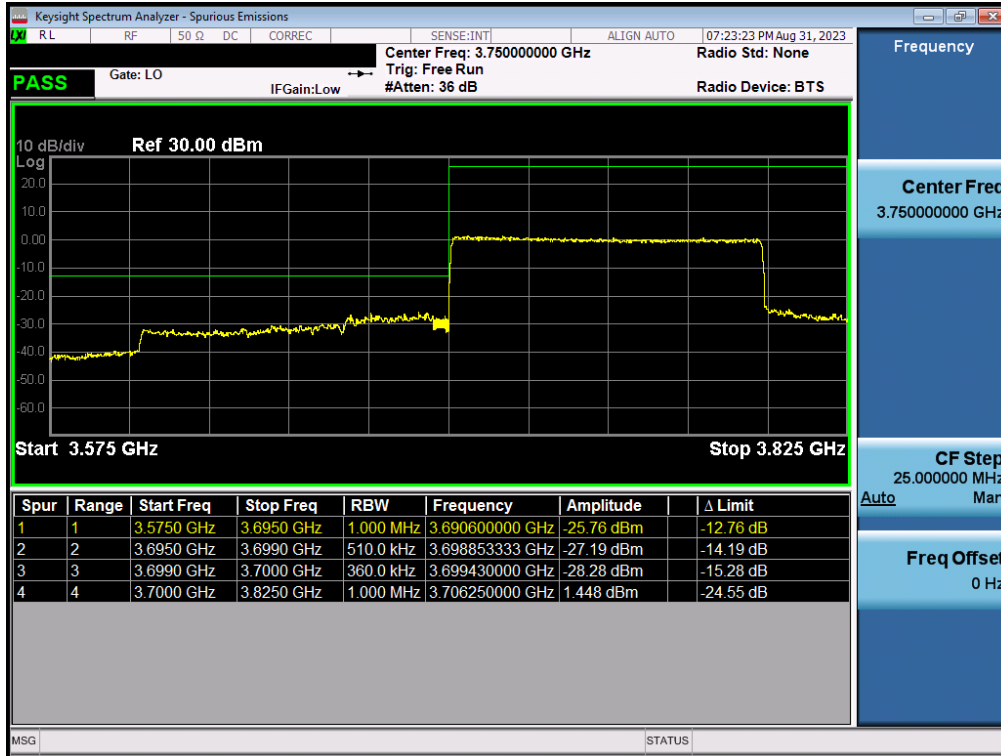


Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC3 DoD Band	100MHz	Low	Band Edge	-25.76	-13	-12.76
		High	Band Edge	-30.48	-13	-17.48
NR-n77PC3 C Band	100MHz	Low	Band Edge	-20.55	-13	-7.55
		High	Band Edge	-19.95	-13	-6.95

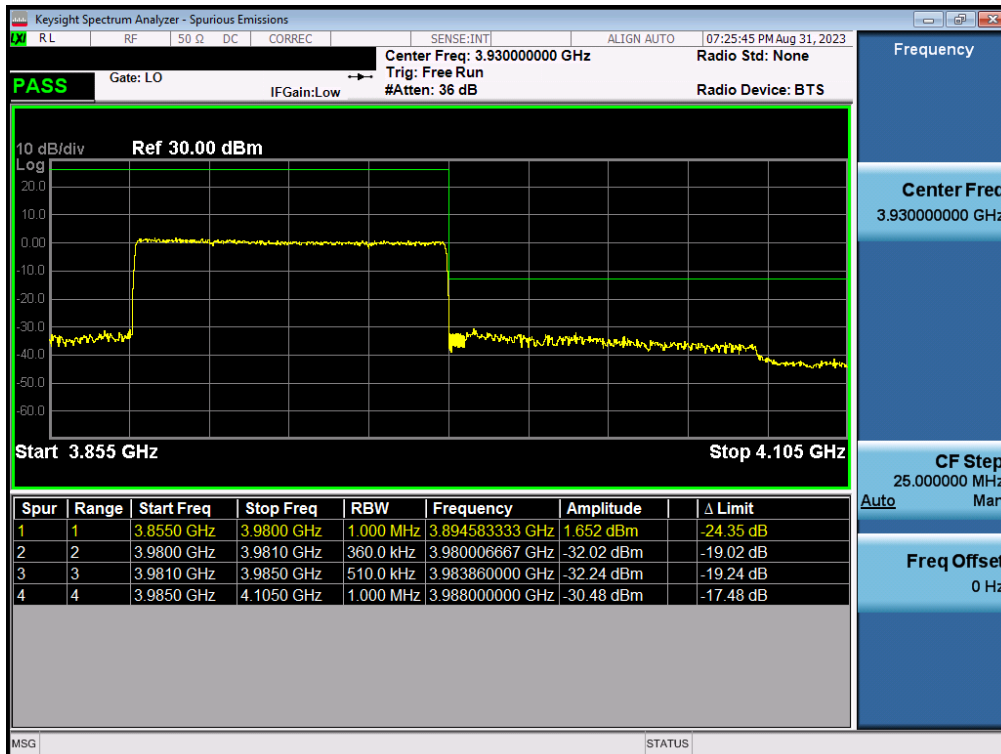
**Table 7-20. Conducted Band Edge Test Results – Ant4**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 90 of 136

# NR Band n77 – Ant4



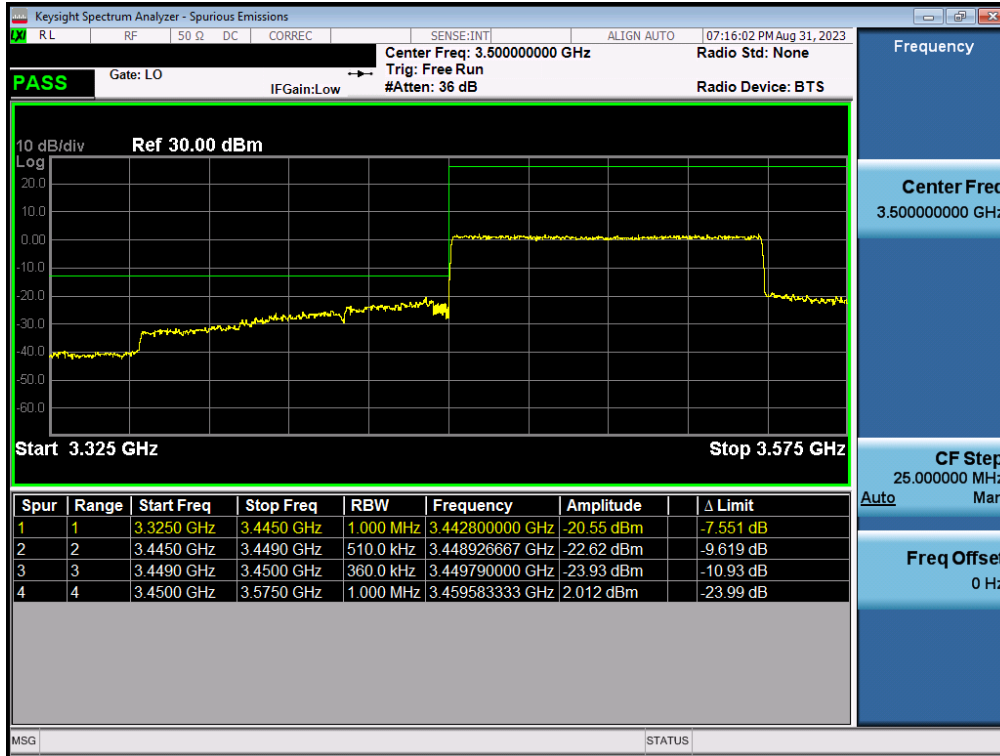
Plot 7-107. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - Ant4)



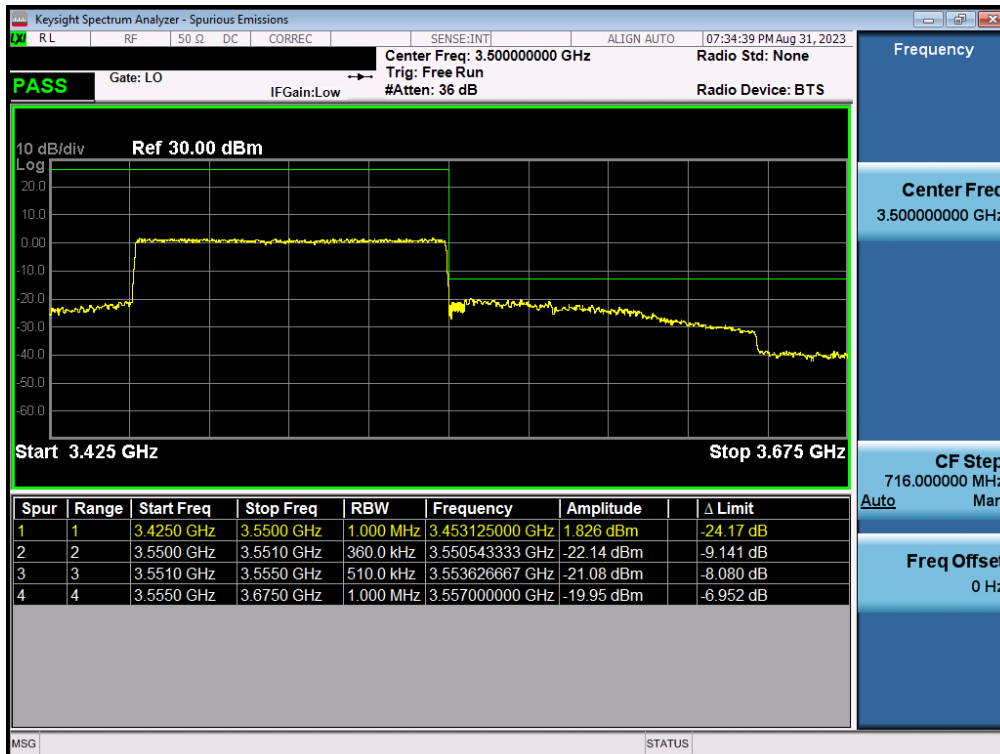
Plot 7-108. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - Ant4)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 91 of 136

### NR Band n77 (DoD Band) – Ant4



Plot 7-109. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - Ant4)



Plot 7-110. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - Ant4)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 92 of 136

## 7.6 Peak-Average Ratio

### Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

***The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.***

### Test Procedure Used

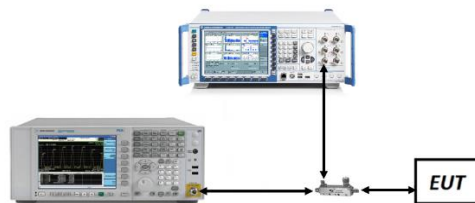
ANSI C63.26-2015 – Section 5.2.3.4

### Test Settings

1. The signal analyzer’s CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW  $\geq$  OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal “RF Burst” trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the “on time” of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-5. Test Instrument & Measurement Setup**

### Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

FCC ID: A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 93 of 136



Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
NR-n77PC3	100MHz	$\pi/2$ BPSK	23.68	4.85	13.0	-8.15
		QPSK	21.22	7.75	13.0	-5.25
		256QAM	17.79	8.66	13.0	-4.34
	90MHz	$\pi/2$ BPSK	23.82	4.16	13.0	-8.84
		QPSK	21.19	7.61	13.0	-5.39
		256QAM	17.75	8.62	13.0	-4.38
	80MHz	$\pi/2$ BPSK	23.76	4.32	13.0	-8.68
		QPSK	21.30	7.47	13.0	-5.53
		256QAM	17.73	8.58	13.0	-4.42
	70MHz	$\pi/2$ BPSK	23.75	4.30	13.0	-8.70
		QPSK	21.22	7.64	13.0	-5.36
		256QAM	17.75	8.67	13.0	-4.33
	60MHz	$\pi/2$ BPSK	23.74	4.20	13.0	-8.80
		QPSK	21.07	7.75	13.0	-5.25
		256QAM	17.67	8.49	13.0	-4.51
	50MHz	$\pi/2$ BPSK	23.81	4.34	13.0	-8.66
		QPSK	21.32	7.52	13.0	-5.48
		256QAM	17.88	8.78	13.0	-4.22
	40MHz	$\pi/2$ BPSK	23.79	4.16	13.0	-8.84
		QPSK	21.22	7.43	13.0	-5.57
		256QAM	17.72	8.50	13.0	-4.50
	30MHz	$\pi/2$ BPSK	23.67	4.24	13.0	-8.76
		QPSK	21.12	7.54	13.0	-5.46
		256QAM	17.68	8.63	13.0	-4.37
	20MHz	$\pi/2$ BPSK	23.72	4.17	13.0	-8.83
		QPSK	21.19	7.46	13.0	-5.54
		256QAM	17.69	8.73	13.0	-4.27
	15MHz	$\pi/2$ BPSK	23.64	4.34	13.0	-8.66
		QPSK	21.21	7.55	13.0	-5.45
		256QAM	17.70	8.39	13.0	-4.61
10MHz	$\pi/2$ BPSK	23.53	4.29	13.0	-8.71	
	QPSK	21.09	7.54	13.0	-5.46	
	256QAM	17.52	8.16	13.0	-4.84	

Table 7-21. PAR Test Results – Ant1

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 94 of 136

# NR Band n77 – Ant1

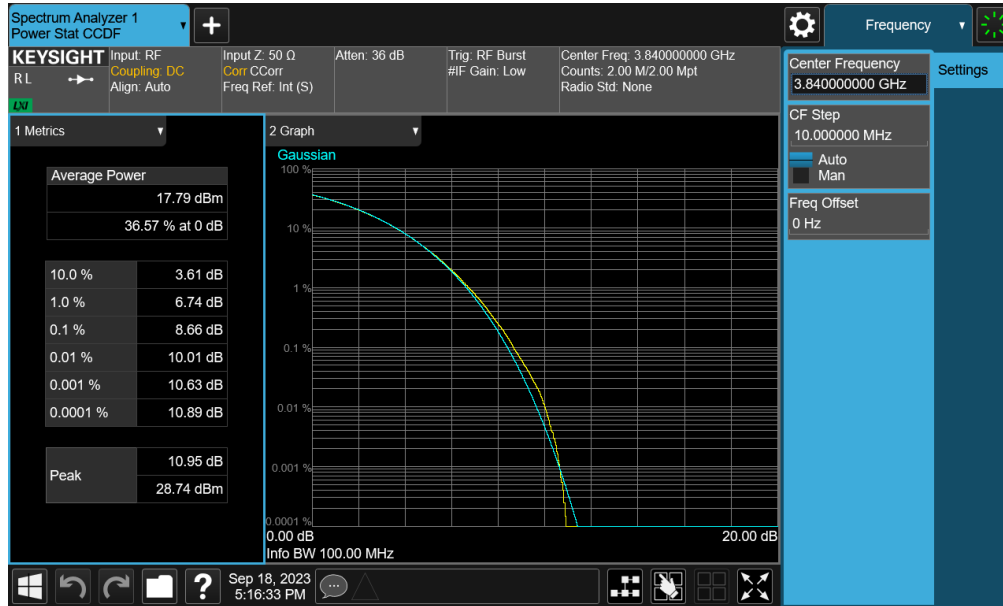


Plot 7-111. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant1)



Plot 7-112. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant1)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 95 of 136



Plot 7-113. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1)

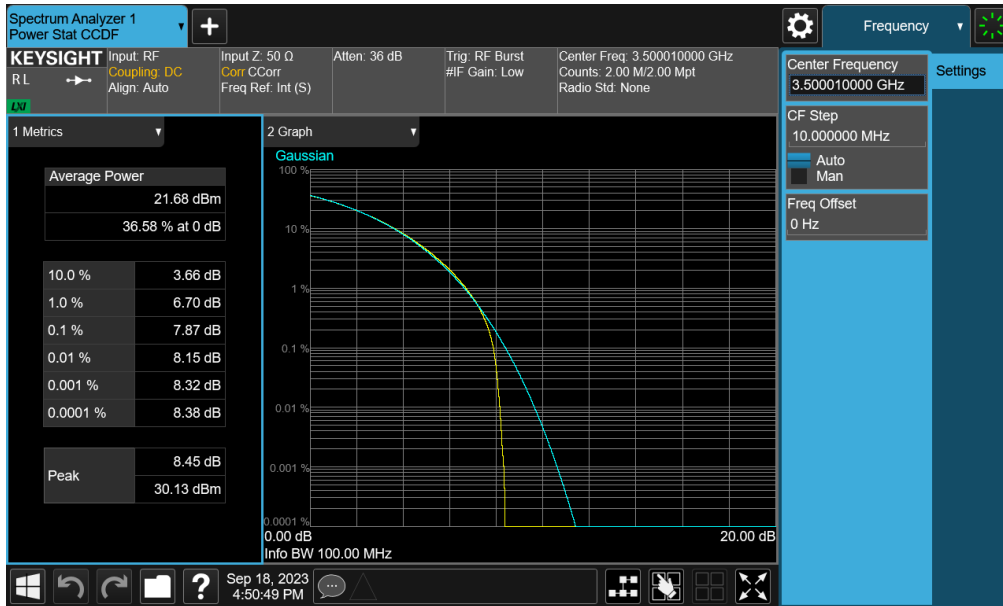
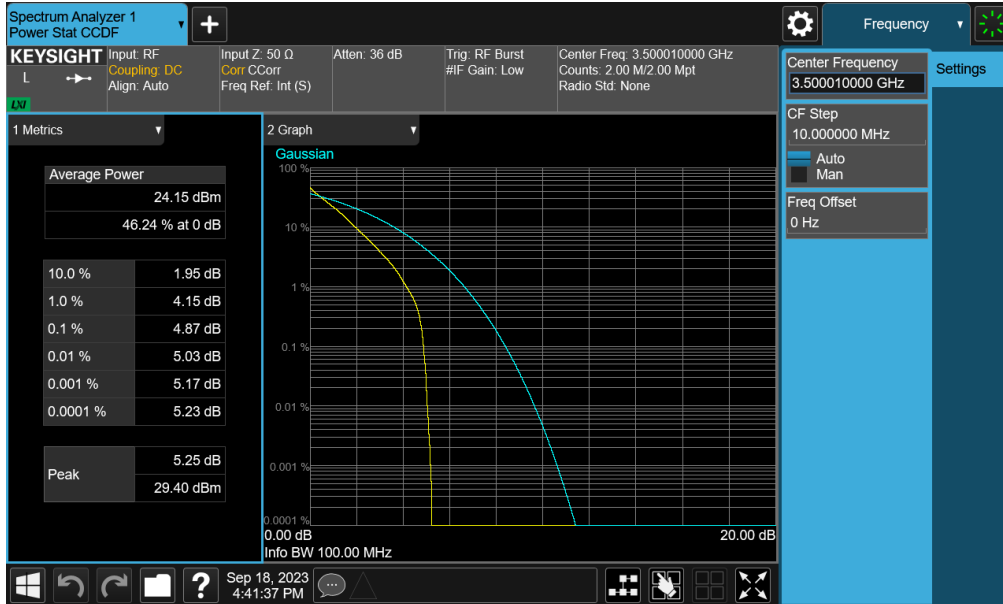
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 96 of 136

Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
NR-n77PC3 DoD Band	100MHz	$\pi/2$ BPSK	24.15	4.87	13.0	-8.13
		QPSK	21.68	7.87	13.0	-5.13
		256QAM	18.24	8.61	13.0	-4.39
	90MHz	$\pi/2$ BPSK	24.17	4.27	13.0	-8.73
		QPSK	21.65	7.71	13.0	-5.29
		256QAM	18.21	8.58	13.0	-4.42
	80MHz	$\pi/2$ BPSK	24.15	4.39	13.0	-8.61
		QPSK	21.77	7.57	13.0	-5.43
		256QAM	18.18	8.56	13.0	-4.44
	70MHz	$\pi/2$ BPSK	24.09	4.37	13.0	-8.63
		QPSK	21.66	7.74	13.0	-5.26
		256QAM	18.14	8.59	13.0	-4.41
	60MHz	$\pi/2$ BPSK	24.07	4.27	13.0	-8.73
		QPSK	21.48	7.84	13.0	-5.16
		256QAM	18.05	8.45	13.0	-4.55
	50MHz	$\pi/2$ BPSK	24.17	4.36	13.0	-8.64
		QPSK	21.73	7.58	13.0	-5.42
		256QAM	18.28	8.74	13.0	-4.26
	40MHz	$\pi/2$ BPSK	24.17	4.19	13.0	-8.81
		QPSK	21.68	7.47	13.0	-5.53
		256QAM	18.13	8.51	13.0	-4.49
	30MHz	$\pi/2$ BPSK	24.04	4.25	13.0	-8.75
		QPSK	21.59	7.57	13.0	-5.43
		256QAM	18.16	8.63	13.0	-4.37
	20MHz	$\pi/2$ BPSK	23.97	4.17	13.0	-8.83
		QPSK	21.48	7.51	13.0	-5.49
		256QAM	17.96	8.77	13.0	-4.23
	15MHz	$\pi/2$ BPSK	23.88	4.35	13.0	-8.65
		QPSK	21.47	7.59	13.0	-5.41
		256QAM	17.96	8.34	13.0	-4.66
10MHz	$\pi/2$ BPSK	23.91	4.20	13.0	-8.80	
	QPSK	21.48	7.48	13.0	-5.52	
	256QAM	17.91	8.08	13.0	-4.92	

**Table 7-22. PAR Test Results – Ant1**

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 97 of 136

## NR Band n77 (DoD Band) – Ant1



FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-116. PAR Plot (NR Band n77 (DoD) - 100MHz CP-OFDM 256-QAM - Full RB - Ant1)**

FCC ID: A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 99 of 136



## 7.7 Radiated Power (EIRP)

### Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

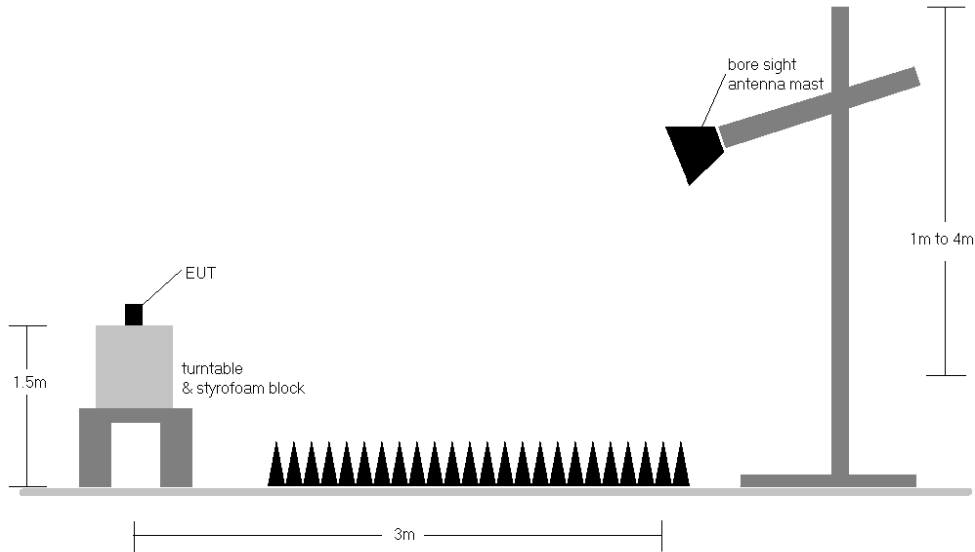
### Test Settings

1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer’s “time domain power” measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW  $\geq$  3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $\geq$  2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”. Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

FCC ID: A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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**Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-6. Radiated Test Setup >1GHz**

**Test Notes**

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	3750.00	H	223	323	7.01	1 / 136	17.10	24.11	0.258	30.00	-5.89
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 136	17.55	24.70	0.295	30.00	-5.30
	π/2 BPSK	3930.00	H	170	330	7.39	1 / 1	16.78	24.17	0.261	30.00	-5.83
	QPSK	3750.00	H	223	323	7.01	1 / 136	17.01	24.02	0.253	30.00	-5.98
	QPSK	3840.00	H	164	332	7.15	1 / 136	17.64	<b>24.79</b>	0.302	30.00	-5.21
	QPSK	3930.00	H	170	330	7.39	1 / 1	16.62	24.01	0.252	30.00	-5.99
90 MHz	16-QAM	3840.00	H	164	332	7.15	1 / 136	16.74	23.89	0.245	30.00	-6.11
	π/2 BPSK	3745.02	H	223	323	7.00	1 / 1	17.09	24.09	0.257	30.00	-5.91
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 1	17.65	24.80	0.302	30.00	-5.20
	π/2 BPSK	3934.98	H	170	330	7.40	1 / 122	16.92	24.32	0.270	30.00	-5.68
	QPSK	3745.02	H	223	323	7.00	1 / 1	17.06	24.06	0.255	30.00	-5.94
	QPSK	3840.00	H	164	332	7.15	1 / 1	17.76	<b>24.91</b>	0.310	30.00	-5.09
80 MHz	QPSK	3934.98	H	170	330	7.40	1 / 122	16.75	24.15	0.260	30.00	-5.85
	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.56	23.71	0.235	30.00	-6.29
	π/2 BPSK	3740.01	H	223	323	6.99	1 / 1	17.04	24.02	0.253	30.00	-5.98
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 1	17.48	24.63	0.291	30.00	-5.37
	π/2 BPSK	3939.99	H	170	330	7.41	1 / 1	16.83	24.24	0.266	30.00	-5.76
	QPSK	3740.01	H	223	323	6.99	1 / 215	17.02	24.00	0.251	30.00	-6.00
70 MHz	QPSK	3840.00	H	164	332	7.15	1 / 1	17.64	<b>24.79</b>	0.302	30.00	-5.21
	QPSK	3939.99	H	170	330	7.41	1 / 1	16.73	24.14	0.259	30.00	-5.86
	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.47	23.62	0.230	30.00	-6.38
	π/2 BPSK	3735.00	H	223	323	6.97	1 / 1	16.85	23.82	0.241	30.00	-6.18
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 94	17.44	24.59	0.288	30.00	-5.41
	π/2 BPSK	3945.00	H	170	330	7.42	1 / 1	16.74	24.16	0.261	30.00	-5.84
60 MHz	QPSK	3735.00	H	223	323	6.97	1 / 1	16.84	23.81	0.241	30.00	-6.19
	QPSK	3840.00	H	164	332	7.15	1 / 1	17.58	<b>24.73</b>	0.297	30.00	-5.27
	QPSK	3945.00	H	170	330	7.42	1 / 1	16.61	24.03	0.253	30.00	-5.97
	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.58	23.73	0.236	30.00	-6.27
	π/2 BPSK	3730.02	H	223	323	6.96	1 / 1	16.94	23.89	0.245	30.00	-6.11
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 1	17.45	24.60	0.289	30.00	-5.40
50 MHz	π/2 BPSK	3949.98	H	170	330	7.43	1 / 1	16.66	24.08	0.256	30.00	-5.92
	QPSK	3730.02	H	223	323	6.96	1 / 1	16.95	23.90	0.246	30.00	-6.10
	QPSK	3840.00	H	164	332	7.15	1 / 1	17.67	<b>24.82</b>	0.304	30.00	-5.18
	QPSK	3949.98	H	170	330	7.43	1 / 1	16.54	23.96	0.249	30.00	-6.04
	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.43	23.58	0.228	30.00	-6.42
	π/2 BPSK	3725.01	H	223	323	6.94	1 / 1	17.10	24.04	0.254	30.00	-5.96
40 MHz	π/2 BPSK	3840.00	H	164	332	7.15	1 / 1	17.52	24.67	0.293	30.00	-5.33
	π/2 BPSK	3954.99	H	170	330	7.43	1 / 131	17.10	24.53	0.284	30.00	-5.47
	QPSK	3725.01	H	223	323	6.94	1 / 1	17.10	24.04	0.254	30.00	-5.96
	QPSK	3840.00	H	164	332	7.15	1 / 1	17.67	<b>24.82</b>	0.304	30.00	-5.18
	QPSK	3954.99	H	170	330	7.43	1 / 131	16.96	24.39	0.275	30.00	-5.61
	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.62	23.77	0.238	30.00	-6.23
30 MHz	π/2 BPSK	3720.00	H	223	323	6.93	1 / 1	17.05	23.97	0.250	30.00	-6.03
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 1	17.39	24.54	0.285	30.00	-5.46
	π/2 BPSK	3960.00	H	170	330	7.44	1 / 104	16.90	24.34	0.272	30.00	-5.66
	QPSK	3720.00	H	223	323	6.93	1 / 1	17.00	23.92	0.247	30.00	-6.08
	QPSK	3840.00	H	164	332	7.15	1 / 1	17.51	<b>24.66</b>	0.293	30.00	-5.34
	QPSK	3960.00	H	170	330	7.44	1 / 104	16.79	24.23	0.265	30.00	-5.77
20 MHz	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.35	23.50	0.224	30.00	-6.50
	π/2 BPSK	3715.02	H	223	323	6.91	1 / 39	17.01	23.92	0.247	30.00	-6.08
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 1	17.56	24.71	0.296	30.00	-5.29
	π/2 BPSK	3964.98	H	170	330	7.45	1 / 76	17.08	24.53	0.284	30.00	-5.47
	QPSK	3715.02	H	223	323	6.91	1 / 1	17.01	23.92	0.247	30.00	-6.08
	QPSK	3840.00	H	164	332	7.15	1 / 1	17.64	<b>24.79</b>	0.302	30.00	-5.21
15 MHz	QPSK	3964.98	H	170	330	7.45	1 / 76	16.93	24.38	0.274	30.00	-5.62
	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.59	23.74	0.237	30.00	-6.26
	π/2 BPSK	3710.01	H	223	323	6.90	1 / 1	16.98	23.88	0.245	30.00	-6.12
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 1	17.37	24.52	0.283	30.00	-5.48
	π/2 BPSK	3969.99	H	170	330	7.46	1 / 49	16.83	24.29	0.269	30.00	-5.71
	QPSK	3710.01	H	223	323	6.90	1 / 1	16.91	23.81	0.241	30.00	-6.19
10 MHz	QPSK	3840.00	H	164	332	7.15	1 / 1	17.50	<b>24.65</b>	0.292	30.00	-5.35
	QPSK	3969.99	H	170	330	7.46	1 / 49	16.76	24.22	0.264	30.00	-5.78
	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.33	23.48	0.223	30.00	-6.52
	π/2 BPSK	3707.52	H	223	323	6.89	1 / 1	16.96	23.85	0.243	30.00	-6.15
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 1	17.39	24.54	0.285	30.00	-5.46
	π/2 BPSK	3972.48	H	170	330	7.46	1 / 36	16.93	24.39	0.275	30.00	-5.61
100 MHz	QPSK	3707.52	H	223	323	6.89	1 / 1	16.96	23.85	0.243	30.00	-6.15
	QPSK	3840.00	H	164	332	7.15	1 / 1	17.55	<b>24.70</b>	0.295	30.00	-5.30
	QPSK	3972.48	H	170	330	7.46	1 / 36	16.87	24.33	0.271	30.00	-5.67
	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.35	23.50	0.224	30.00	-6.50
	π/2 BPSK	3705.00	H	223	323	6.89	1 / 12	17.00	23.88	0.245	30.00	-6.12
	π/2 BPSK	3840.00	H	164	332	7.15	1 / 12	17.43	24.58	0.287	30.00	-5.42
100 MHz	π/2 BPSK	3975.00	H	170	330	7.47	1 / 22	16.90	24.37	0.274	30.00	-5.63
	QPSK	3705.00	H	223	323	6.89	1 / 12	16.96	23.84	0.242	30.00	-6.16
	QPSK	3840.00	H	164	332	7.15	1 / 12	17.57	<b>24.72</b>	0.297	30.00	-5.28
	QPSK	3975.00	H	170	330	7.47	1 / 22	16.78	24.25	0.266	30.00	-5.75
100 MHz	16-QAM	3840.00	H	164	332	7.15	1 / 1	16.34	23.49	0.224	30.00	-6.51
	QPSK (CP-OFDM)	3840.00	H	164	332	7.15	1 / 1	15.76	22.91	0.196	30.00	-7.09
100 MHz	QPSK (WCP)	3840.00	H	161	347	7.15	1 / 1	17.35	24.50	0.282	30.00	-5.50

Table 7-23. EIRP Data (NR Band n77 – Ant1)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	100	324	7.01	1 / 1	18.54	<b>25.55</b>	0.359	30.00	-4.45
	$\pi/2$ BPSK	3840.00	H	100	320	7.15	1 / 1	17.69	24.84	0.305	30.00	-5.16
	$\pi/2$ BPSK	3930.00	H	100	324	7.39	1 / 1	14.90	22.29	0.169	30.00	-7.71
	QPSK	3750.00	H	100	324	7.01	1 / 1	18.44	25.45	0.351	30.00	-4.55
	QPSK	3840.00	H	100	320	7.15	1 / 1	16.99	24.14	0.260	30.00	-5.86
	QPSK	3930.00	H	100	324	7.39	1 / 1	14.11	21.50	0.141	30.00	-8.50
	16-QAM	3750.00	H	100	324	7.01	1 / 1	17.55	24.56	0.286	30.00	-5.44
100 MHz	QPSK (CP-OFDM)	3750.00	H	100	324	7.01	1 / 1	16.82	23.83	0.242	30.00	-6.17

Table 7-24. EIRP Data (NR Band n77 – Ant2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	H	104	311	7.01	1 / 271	16.65	23.66	0.233	30.00	-6.34
	$\pi/2$ BPSK	3840.00	H	101	309	7.15	1 / 1	17.28	24.43	0.278	30.00	-5.57
	$\pi/2$ BPSK	3930.00	H	109	319	7.39	1 / 1	16.65	24.04	0.254	30.00	-5.96
	QPSK	3750.00	H	104	311	7.01	1 / 271	16.67	23.68	0.234	30.00	-6.32
	QPSK	3840.00	H	101	309	7.15	1 / 1	17.33	<b>24.48</b>	0.281	30.00	-5.52
	QPSK	3930.00	H	109	319	7.39	1 / 1	16.71	24.10	0.257	30.00	-5.90
	16-QAM	3930.00	H	109	319	7.39	1 / 1	15.51	22.90	0.195	30.00	-7.10
100 MHz	QPSK (CP-OFDM)	3840.00	H	101	309	7.15	1 / 1	15.79	22.94	0.197	30.00	-7.06

Table 7-25. EIRP Data (NR Band n77 – Ant3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3750.00	V	112	352	7.03	1 / 1	14.78	<b>21.81</b>	0.152	30.00	-8.19
	$\pi/2$ BPSK	3840.00	V	100	356	7.13	1 / 1	13.26	20.39	0.109	30.00	-9.61
	$\pi/2$ BPSK	3930.00	V	100	357	7.39	1 / 1	11.14	18.53	0.071	30.00	-11.47
	QPSK	3750.00	V	112	352	7.03	1 / 1	14.64	21.67	0.147	30.00	-8.33
	QPSK	3840.00	V	100	356	7.13	1 / 1	12.34	19.47	0.088	30.00	-10.53
	QPSK	3930.00	V	100	357	7.39	1 / 1	10.39	17.78	0.060	30.00	-12.22
	16-QAM	3750.00	V	112	352	7.03	1 / 1	13.69	20.72	0.118	30.00	-9.28
100 MHz	QPSK (CP-OFDM)	3750.00	V	112	352	7.03	1 / 1	13.21	20.24	0.106	30.00	-9.76

Table 7-26. EIRP Data (NR Band n77 – Ant4)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 136	17.17	<b>23.63</b>	0.231	30.00	-6.37
	QPSK	3500.01	H	162	330	6.46	1 / 136	17.11	23.57	0.228	30.00	-6.43
	16-QAM	3500.01	H	162	330	6.46	1 / 136	16.16	22.62	0.183	30.00	-7.38
90 MHz	$\pi/2$ BPSK	3495.00	H	162	330	6.46	1 / 1	17.21	<b>23.66</b>	0.233	30.00	-6.34
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	17.17	23.63	0.231	30.00	-6.37
	$\pi/2$ BPSK	3504.99	H	162	330	6.47	1 / 1	17.16	23.62	0.230	30.00	-6.38
	QPSK	3495.00	H	162	330	6.46	1 / 1	17.07	23.52	0.225	30.00	-6.48
	QPSK	3500.01	H	162	330	6.46	1 / 1	17.02	23.48	0.223	30.00	-6.52
	QPSK	3504.99	H	162	330	6.47	1 / 1	17.05	23.51	0.225	30.00	-6.49
80 MHz	16-QAM	3495.00	H	162	330	6.46	1 / 1	16.17	22.62	0.183	30.00	-7.38
	$\pi/2$ BPSK	3490.02	H	162	330	6.45	1 / 1	17.23	<b>23.68</b>	0.234	30.00	-6.32
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	17.18	23.64	0.231	30.00	-6.36
	$\pi/2$ BPSK	3510.00	H	162	330	6.47	1 / 1	17.17	23.64	0.231	30.00	-6.36
	QPSK	3490.02	H	162	330	6.45	1 / 1	17.13	23.58	0.228	30.00	-6.42
	QPSK	3500.01	H	162	330	6.46	1 / 1	17.11	23.57	0.228	30.00	-6.43
70 MHz	QPSK	3510.00	H	162	330	6.47	1 / 1	17.14	23.61	0.230	30.00	-6.39
	16-QAM	3490.02	H	162	330	6.45	1 / 1	16.08	22.53	0.179	30.00	-7.47
	$\pi/2$ BPSK	3485.01	H	162	330	6.45	1 / 1	17.11	<b>23.55</b>	0.227	30.00	-6.45
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	17.05	23.51	0.225	30.00	-6.49
	$\pi/2$ BPSK	3514.98	H	162	330	6.47	1 / 1	16.93	23.40	0.219	30.00	-6.60
	QPSK	3485.01	H	162	330	6.45	1 / 1	16.97	23.41	0.220	30.00	-6.59
60 MHz	QPSK	3500.01	H	162	330	6.46	1 / 1	16.92	23.38	0.218	30.00	-6.62
	QPSK	3514.98	H	162	330	6.47	1 / 1	16.80	23.27	0.213	30.00	-6.73
	16-QAM	3485.01	H	162	330	6.45	1 / 1	16.04	22.48	0.177	30.00	-7.52
	$\pi/2$ BPSK	3480.00	H	162	330	6.44	1 / 1	17.11	<b>23.55</b>	0.227	30.00	-6.45
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	17.08	23.54	0.226	30.00	-6.46
	$\pi/2$ BPSK	3519.99	H	162	330	6.48	1 / 1	16.89	23.36	0.217	30.00	-6.64
50 MHz	QPSK	3480.00	H	162	330	6.44	1 / 1	17.02	23.46	0.222	30.00	-6.54
	QPSK	3500.01	H	162	330	6.46	1 / 1	16.91	23.37	0.218	30.00	-6.63
	QPSK	3519.99	H	162	330	6.48	1 / 1	16.77	23.24	0.211	30.00	-6.76
	16-QAM	3480.00	H	162	330	6.44	1 / 1	15.84	22.28	0.169	30.00	-7.72
	$\pi/2$ BPSK	3475.02	H	162	330	6.43	1 / 1	17.28	<b>23.71</b>	0.235	30.00	-6.29
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	17.21	23.67	0.233	30.00	-6.33
40 MHz	$\pi/2$ BPSK	3525.00	H	162	330	6.48	1 / 1	17.12	23.59	0.229	30.00	-6.41
	QPSK	3475.02	H	162	330	6.43	1 / 1	17.16	23.59	0.229	30.00	-6.41
	QPSK	3500.01	H	162	330	6.46	1 / 1	17.12	23.58	0.228	30.00	-6.42
	QPSK	3525.00	H	162	330	6.48	1 / 1	16.98	23.45	0.222	30.00	-6.55
	16-QAM	3475.02	H	162	330	6.43	1 / 1	15.92	22.35	0.172	30.00	-7.65
	$\pi/2$ BPSK	3470.01	H	162	330	6.43	1 / 1	17.20	<b>23.62</b>	0.230	30.00	-6.38
30 MHz	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	17.00	23.46	0.222	30.00	-6.54
	$\pi/2$ BPSK	3529.98	H	162	330	6.48	1 / 1	16.92	23.40	0.219	30.00	-6.60
	QPSK	3470.01	H	162	330	6.43	1 / 1	17.10	23.52	0.225	30.00	-6.48
	QPSK	3500.01	H	162	330	6.46	1 / 1	16.87	23.33	0.216	30.00	-6.67
	QPSK	3529.98	H	162	330	6.48	1 / 1	16.79	23.27	0.213	30.00	-6.73
	16-QAM	3470.01	H	162	330	6.43	1 / 1	15.93	22.35	0.172	30.00	-7.65
20 MHz	$\pi/2$ BPSK	3465.00	H	162	330	6.42	1 / 1	17.24	<b>23.66</b>	0.233	30.00	-6.34
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	17.14	23.60	0.229	30.00	-6.40
	$\pi/2$ BPSK	3534.99	H	162	330	6.48	1 / 1	16.91	23.39	0.219	30.00	-6.61
	QPSK	3465.00	H	162	330	6.42	1 / 1	17.12	23.54	0.226	30.00	-6.46
	QPSK	3500.01	H	162	330	6.46	1 / 1	17.02	23.48	0.223	30.00	-6.52
	QPSK	3534.99	H	162	330	6.48	1 / 1	16.78	23.26	0.212	30.00	-6.74
15 MHz	16-QAM	3465.00	H	162	330	6.42	1 / 1	16.00	22.42	0.175	30.00	-7.58
	$\pi/2$ BPSK	3460.02	H	162	330	6.42	1 / 1	17.13	<b>23.54</b>	0.226	30.00	-6.46
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	16.95	23.41	0.220	30.00	-6.59
	$\pi/2$ BPSK	3540.00	H	162	330	6.49	1 / 1	16.72	23.20	0.209	30.00	-6.80
	QPSK	3460.02	H	162	330	6.42	1 / 1	17.01	23.42	0.220	30.00	-6.58
	QPSK	3500.01	H	162	330	6.46	1 / 1	16.82	23.28	0.213	30.00	-6.72
10 MHz	QPSK	3540.00	H	162	330	6.49	1 / 1	16.55	23.03	0.201	30.00	-6.97
	16-QAM	3460.02	H	162	330	6.42	1 / 1	15.91	22.32	0.171	30.00	-7.68
	$\pi/2$ BPSK	3457.50	H	162	330	6.41	1 / 19	17.19	<b>23.60</b>	0.229	30.00	-6.40
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	16.95	23.41	0.220	30.00	-6.59
	$\pi/2$ BPSK	3542.49	H	162	330	6.49	1 / 1	16.77	23.25	0.212	30.00	-6.75
	QPSK	3457.50	H	162	330	6.41	1 / 19	17.07	23.48	0.223	30.00	-6.52
100 MHz	QPSK	3500.01	H	162	330	6.46	1 / 1	16.82	23.28	0.213	30.00	-6.72
	QPSK	3542.49	H	162	330	6.49	1 / 1	16.62	23.10	0.204	30.00	-6.90
	16-QAM	3457.50	H	162	330	6.41	1 / 1	15.95	22.36	0.172	30.00	-7.64
	$\pi/2$ BPSK	3455.01	H	162	330	6.41	1 / 1	17.29	<b>23.69</b>	0.234	30.00	-6.31
	$\pi/2$ BPSK	3500.01	H	162	330	6.46	1 / 1	17.06	23.52	0.225	30.00	-6.48
	$\pi/2$ BPSK	3544.98	H	162	330	6.49	1 / 1	16.78	23.26	0.212	30.00	-6.74
100 MHz	QPSK	3455.01	H	162	330	6.41	1 / 1	17.16	23.56	0.227	30.00	-6.44
	QPSK	3500.01	H	162	330	6.46	1 / 1	16.94	23.40	0.219	30.00	-6.60
100 MHz	QPSK	3544.98	H	162	330	6.49	1 / 1	16.65	23.13	0.206	30.00	-6.87
	16-QAM	3455.01	H	162	330	6.41	1 / 1	16.03	22.43	0.175	30.00	-7.57
100 MHz	QPSK (CP-OFDM)	3500.0	H	164	340	6.46	1 / 136	15.66	22.12	0.163	30.00	-7.88
	QPSK (WCP)	3500.0	H	178	337	6.46	1 / 136	16.48	22.94	0.197	30.00	-7.06

Table 7-27. EIRP Data (NR Band n77 (DoD) – Ant1)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	104	316	6.46	1 / 1	19.27	25.73	0.375	30.00	-4.27
	QPSK	3500.01	H	104	316	6.46	1 / 1	19.36	<b>25.82</b>	0.382	30.00	-4.18
	16-QAM	3500.01	H	104	316	6.46	1 / 1	18.53	24.99	0.316	30.00	-5.01
100 MHz	QPSK (CP-OFDM)	3500.01	H	104	316	6.46	1 / 1	17.95	24.41	0.276	30.00	-5.59

Table 7-28. EIRP Data (NR Band n77 (DoD) – Ant2)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	H	101	311	6.46	1 / 271	14.70	21.16	0.131	30.00	-8.84
	QPSK	3500.01	H	101	311	6.46	1 / 271	14.80	<b>21.26</b>	0.134	30.00	-8.74
	16-QAM	3500.01	H	101	311	6.46	1 / 271	13.87	20.33	0.108	30.00	-9.67
100 MHz	QPSK (CP-OFDM)	3500.01	H	101	311	6.46	1 / 271	13.51	19.97	0.099	30.00	-10.03

Table 7-29. EIRP Data (NR Band n77 (DoD) – Ant3)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	$\pi/2$ BPSK	3500.01	V	100	359	6.48	1 / 1	14.00	<b>20.48</b>	0.112	30.00	-9.52
	QPSK	3500.01	V	100	359	6.48	1 / 1	13.74	20.22	0.105	30.00	-9.78
	16-QAM	3500.01	V	100	359	6.48	1 / 1	12.85	19.33	0.086	30.00	-10.67
100 MHz	QPSK (CP-OFDM)	3500.01	V	100	359	6.48	1 / 1	12.18	18.66	0.073	30.00	-11.34

Table 7-30. EIRP Data (NR Band n77 (DoD) – Ant4)

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## 7.8 Radiated Spurious Emissions Measurements

### Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

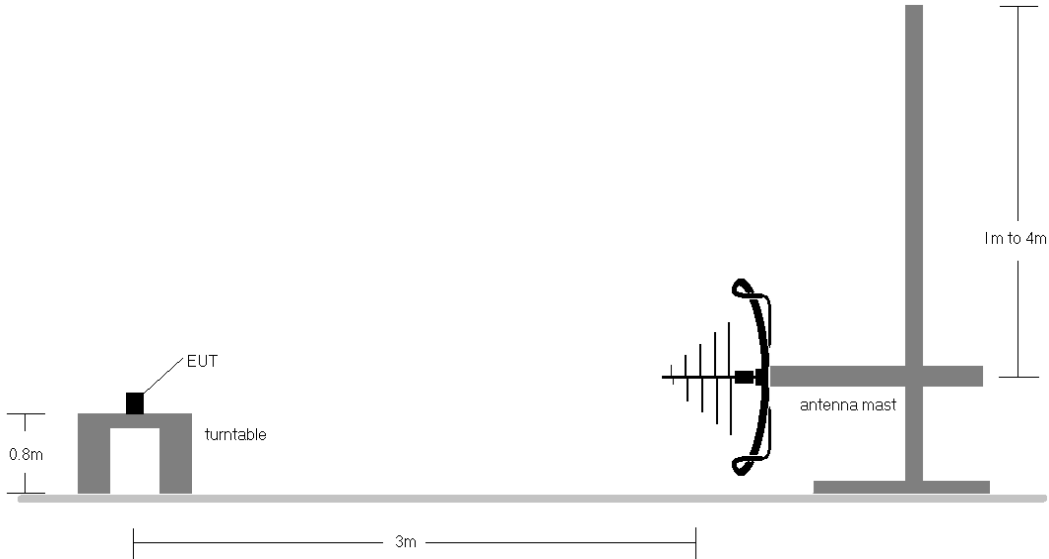
### Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq$  3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq$  2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

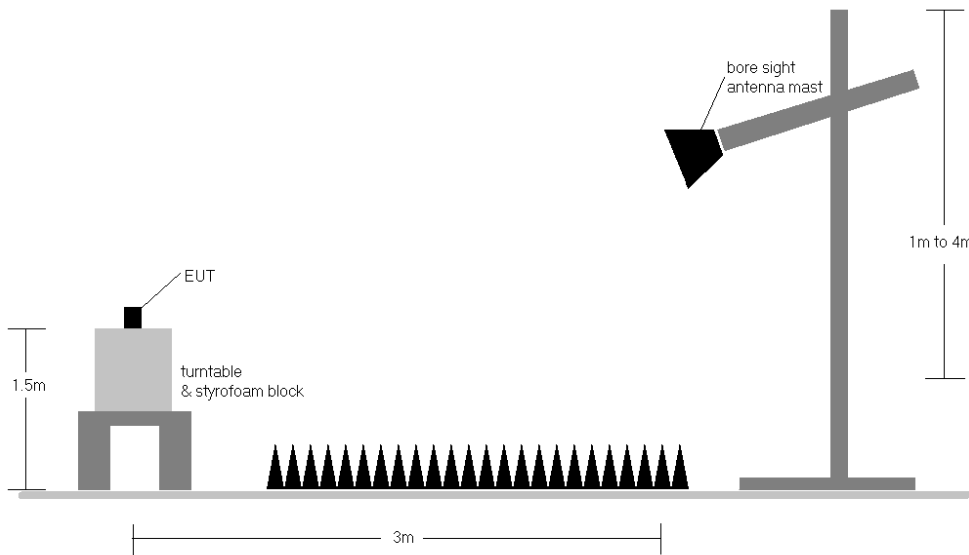
<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 106 of 136

**Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-7. Test Instrument & Measurement Setup < 1GHz**



**Figure 7-8. Test Instrument & Measurement Setup >1 GHz**

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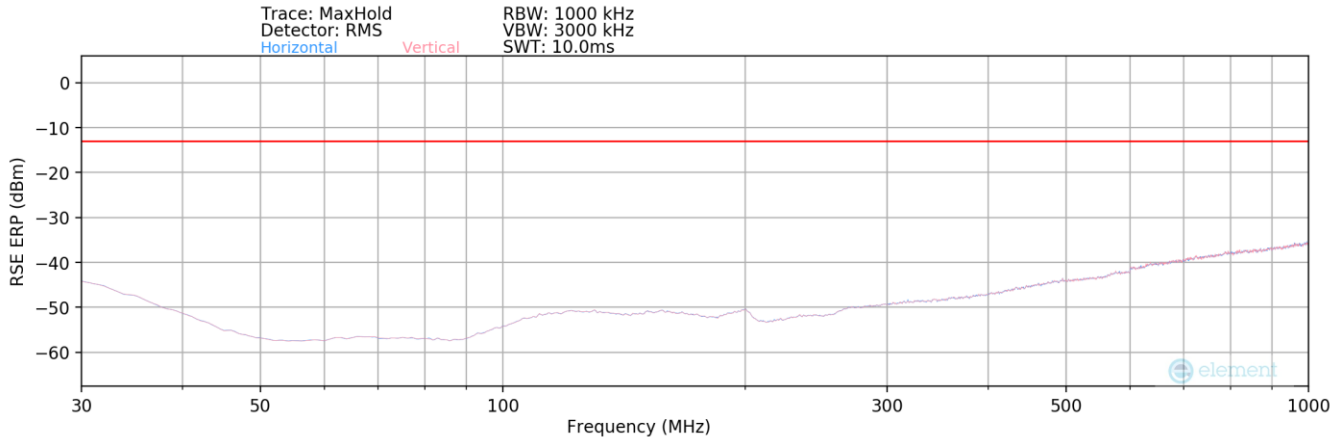
**Test Notes**

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - b)  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - d)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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## NR Band n77 – Ant1



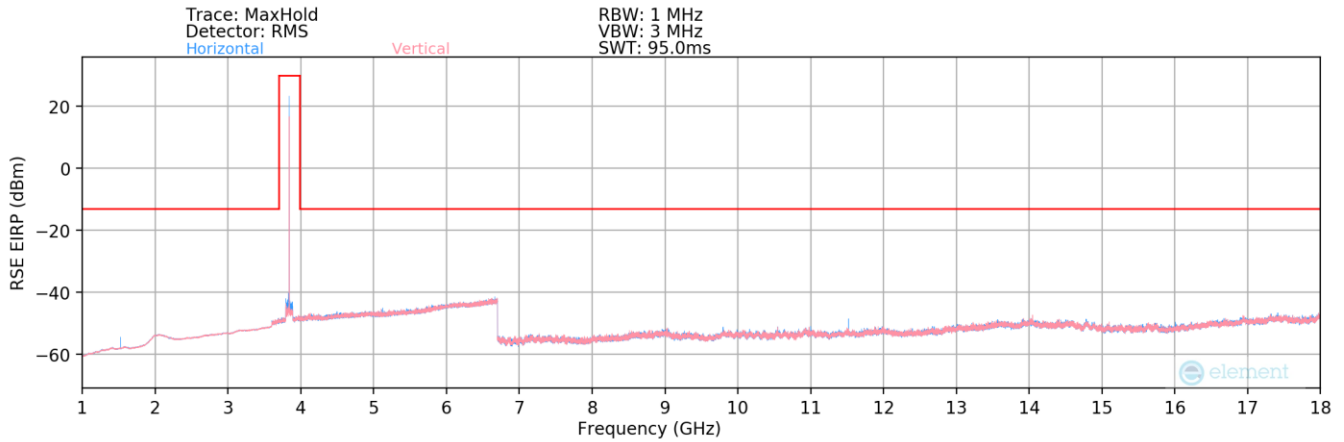
Plot 7-117. Radiated Spurious Plot – Below 1GHz (NR Band n77 – Ant1)

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

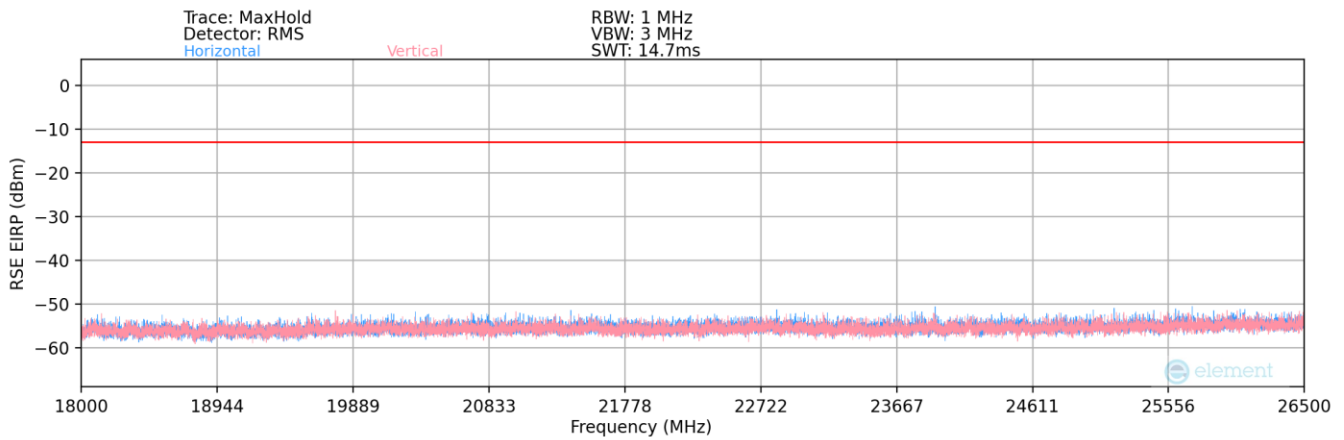
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
114.00	H	-	-	-80.89	20.21	46.32	-51.09	-13.00	-38.09
213.54	H	-	-	-81.05	17.61	43.56	-53.85	-13.00	-40.85
492.00	H	-	-	-80.76	25.93	52.17	-45.23	-13.00	-32.23

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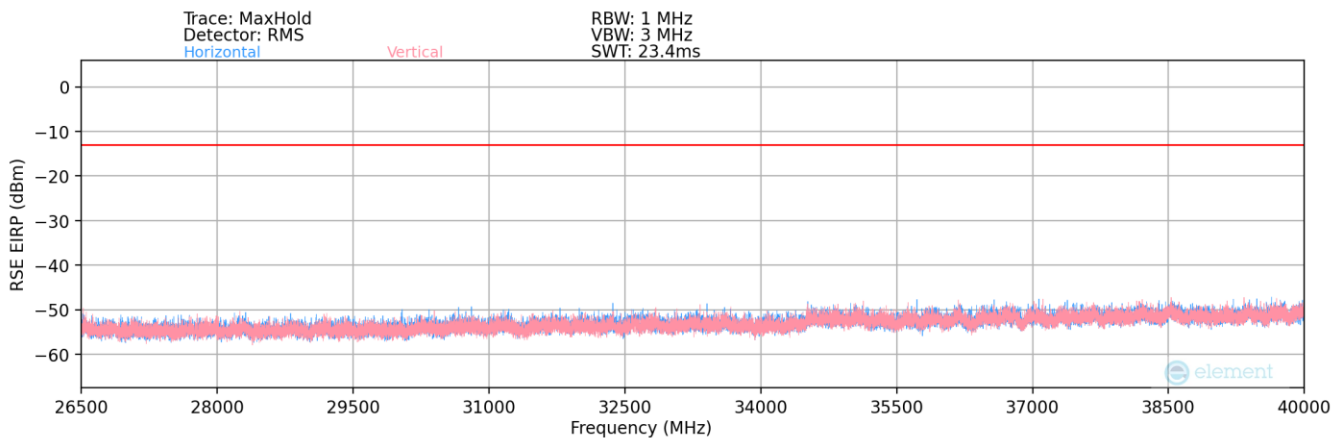




**Plot 7-118. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77 – Ant1)**



**Plot 7-119. Radiated Spurious Plot – 18GHz – 25.5GHz (NR Band n77 – Ant1)**



**Plot 7-120. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77 – Ant1)**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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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	143	337	-74.64	9.72	42.08	-53.18	-13.00	-40.18
11250.00	H	160	19	-72.92	12.07	46.15	-49.11	-13.00	-36.11
15000.00	H	-	-	-78.93	14.86	42.93	-52.32	-13.00	-39.32
18750.00	H	-	-	-57.35	1.87	51.52	-53.28	-13.00	-40.28
22500.00	H	-	-	-57.30	3.97	53.68	-51.12	-13.00	-38.12

Table 7-31. Radiated Spurious Data (NR Band n77 – Low Channel – Ant1)

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	192	21	-74.99	8.49	40.50	-54.76	-13.00	-41.76
11520.00	H	210	74	-71.72	12.59	47.87	-47.39	-13.00	-34.39
15360.00	H	-	-	-78.34	14.87	43.53	-51.73	-13.00	-38.73
19200.00	H	-	-	-57.82	2.25	51.43	-53.37	-13.00	-40.37
23040.00	H	-	-	-57.86	3.99	53.13	-51.67	-13.00	-38.67

Table 7-32. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant1)

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

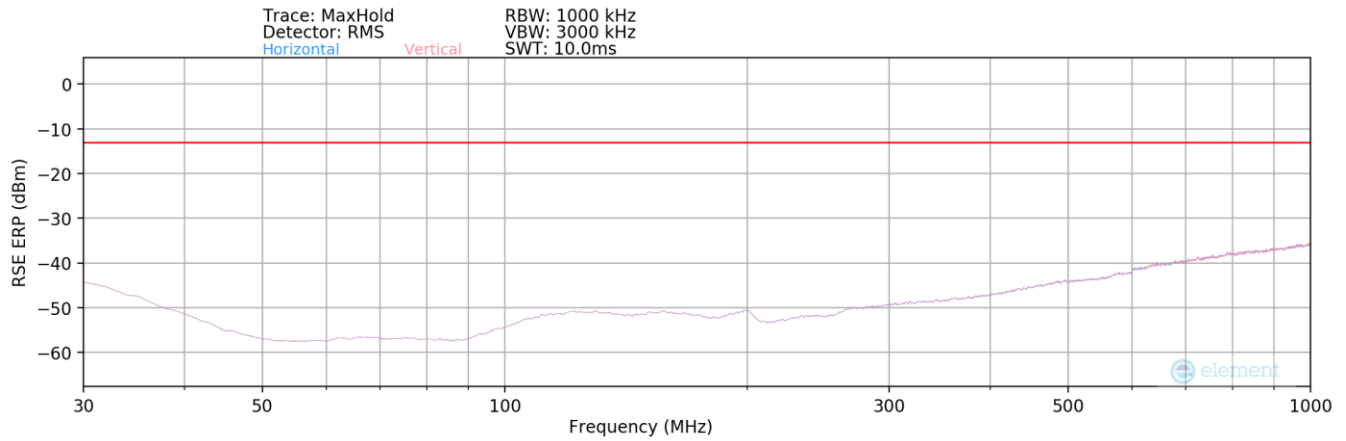
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	H	231	311	-76.20	8.96	39.76	-55.50	-13.00	-42.50
11790.00	H	151	64	-75.11	13.13	45.02	-50.24	-13.00	-37.24
15720.00	H	-	-	-79.07	15.19	43.12	-52.14	-13.00	-39.14
19650.00	H	-	-	-57.60	2.78	52.18	-52.62	-13.00	-39.62
23580.00	H	-	-	-56.94	4.00	54.07	-50.73	-13.00	-37.73

Table 7-33. Radiated Spurious Data (NR Band n77 – High Channel – Ant1)

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## NR Band n77 – Ant2



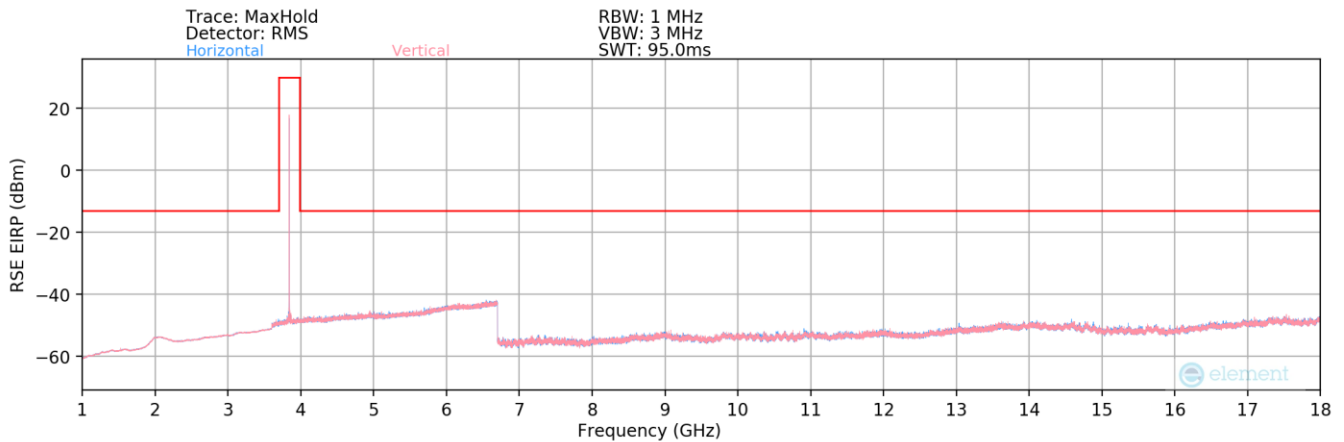
Plot 7-121. Radiated Spurious Plot – Below 1GHz (NR Band n77 – Ant2)

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

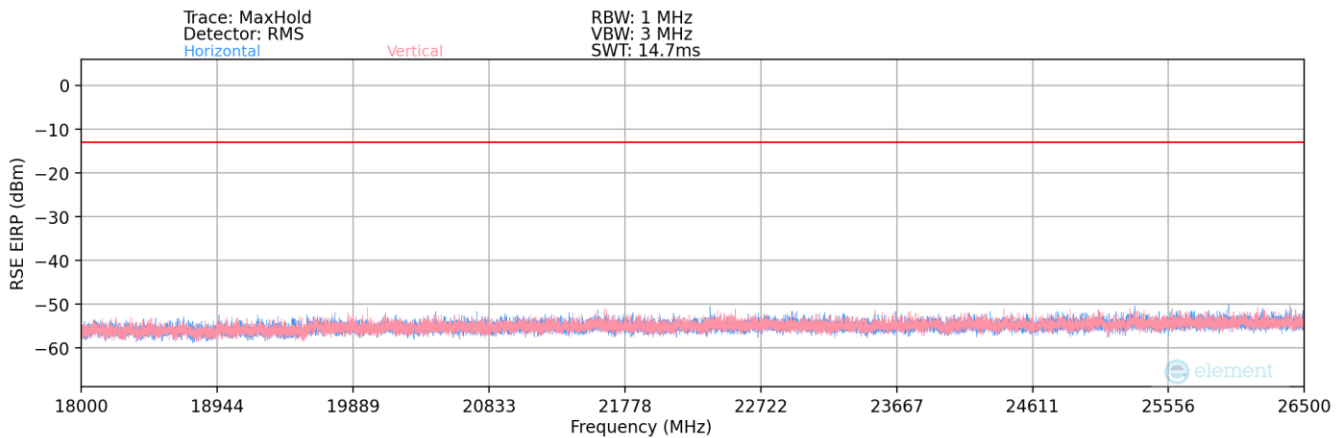
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74.00	V	-	-	-81.06	14.67	40.61	-56.80	-13.00	-43.80
124.00	V	-	-	-80.99	20.59	46.60	-50.81	-13.00	-37.81
193.00	V	-	-	-80.85	19.10	45.25	-52.16	-13.00	-39.16

Table 7-34. Radiated Spurious Data – Below 1GHz (NR Band n77 – Ant2)

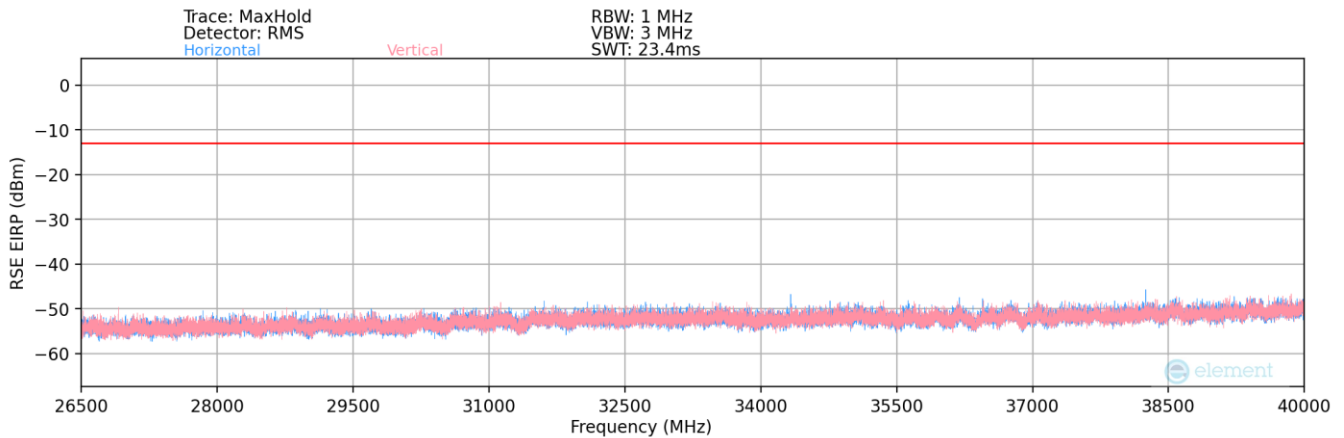
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-122. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77 – Ant2)**



**Plot 7-123. Radiated Spurious Plot – 18GHz – 25.5GHz (NR Band n77 – Ant2)**



**Plot 7-124. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77 – Ant2)**

FCC ID: A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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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	196	295	-76.86	9.72	39.86	-55.40	-13.00	-42.40
11250.00	V	233	7	-77.17	12.07	41.90	-53.36	-13.00	-40.36
15000.00	V	225	48	-68.91	14.86	52.95	-42.30	-13.00	-29.30
18750.00	V	150	264	-55.10	1.87	53.77	-51.03	-13.00	-38.03
22500.00	V	-	-	-58.26	3.97	52.71	-52.09	-13.00	-39.09
26250.00	V	-	-	-57.66	4.35	53.69	-51.11	-13.00	-38.11
30000.00	V	-	-	-58.23	6.18	54.95	-49.85	-13.00	-36.85

Table 7-35. Radiated Spurious Data (NR Band n77 – Low Channel – Ant2)

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	-	-	-76.59	8.49	38.90	-56.36	-13.00	-43.36
11520.00	V	242	346	-75.26	12.59	44.33	-50.93	-13.00	-37.93
15360.00	V	231	335	-65.79	14.87	56.08	-39.18	-13.00	-26.18
19200.00	V	150	233	-56.93	2.25	52.32	-52.48	-13.00	-39.48
23040.00	V	-	-	-58.27	3.99	52.72	-52.08	-13.00	-39.08
26880.00	V	-	-	-58.00	4.75	53.75	-51.05	-13.00	-38.05
30720.00	V	-	-	-58.38	6.80	55.42	-49.38	-13.00	-36.38

Table 7-36. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant2)

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

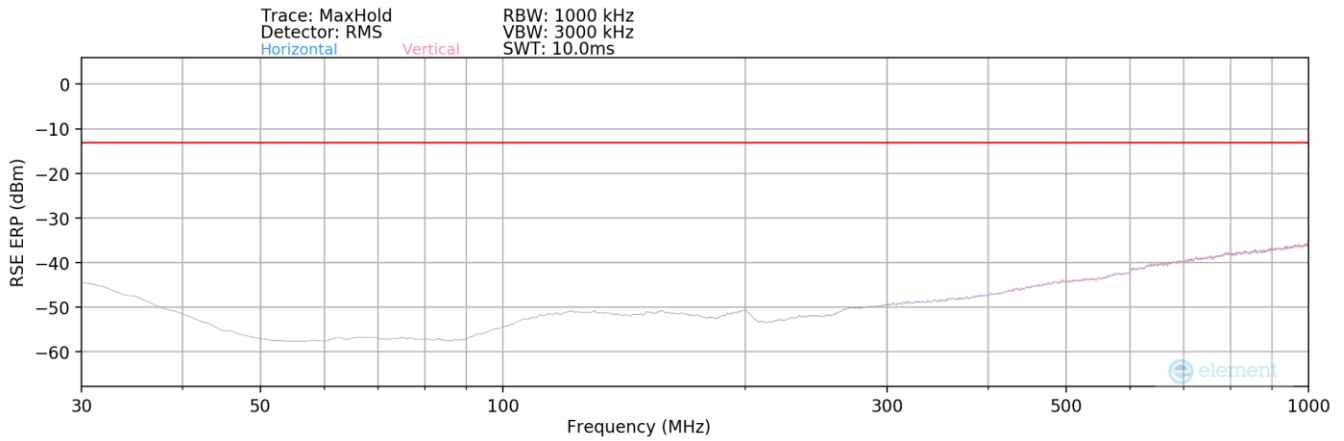
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	V	-	-	-77.02	8.96	38.94	-56.32	-13.00	-43.32
11790.00	V	262	19	-68.53	13.13	51.60	-43.66	-13.00	-30.66
15720.00	V	224	317	-67.82	15.19	54.37	-40.89	-13.00	-27.89
19650.00	V	150	204	-56.73	2.78	53.05	-51.75	-13.00	-38.75
23580.00	V	-	-	-58.34	4.00	52.66	-52.14	-13.00	-39.14
27510.00	V	-	-	-56.82	4.62	54.80	-50.00	-13.00	-37.00
31440.00	V	-	-	-58.15	6.99	55.84	-48.96	-13.00	-35.96

Table 7-37. Radiated Spurious Data (NR Band n77 – High Channel – Ant2)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 114 of 136



# NR Band n77 – Ant3



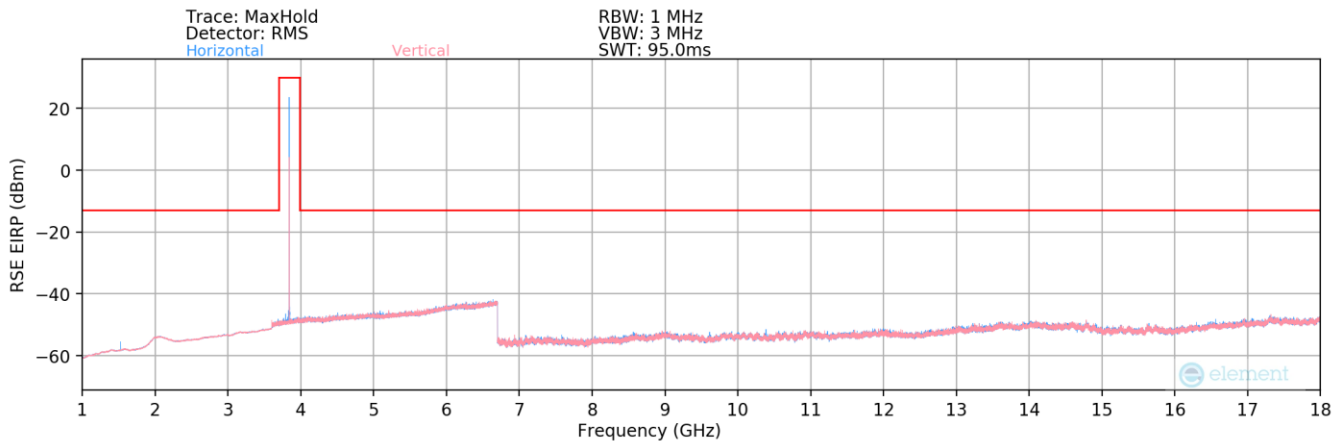
Plot 7-125. Radiated Spurious Plot – Below 1GHz (NR Band n77 – Ant3)

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

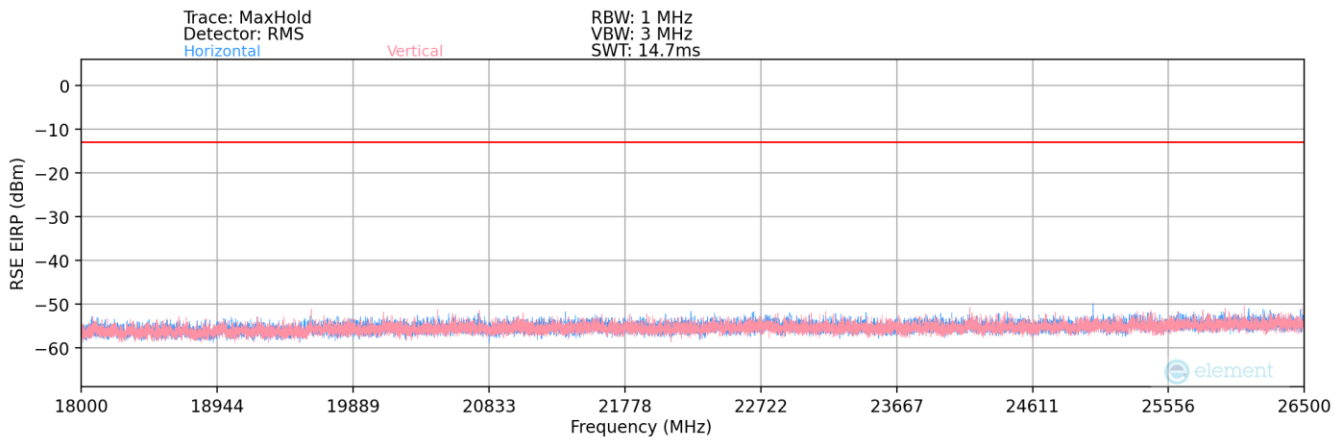
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
52.00	H	-	-	-80.76	14.18	40.42	-56.99	-13.00	-43.99
84.61	H	-	-	-81.15	14.30	40.15	-57.26	-13.00	-44.26
219.15	H	-	-	-81.10	18.15	44.05	-53.36	-13.00	-40.36

Table 7-38. Radiated Spurious Data – Below 1GHz (NR Band n77 – Ant3)

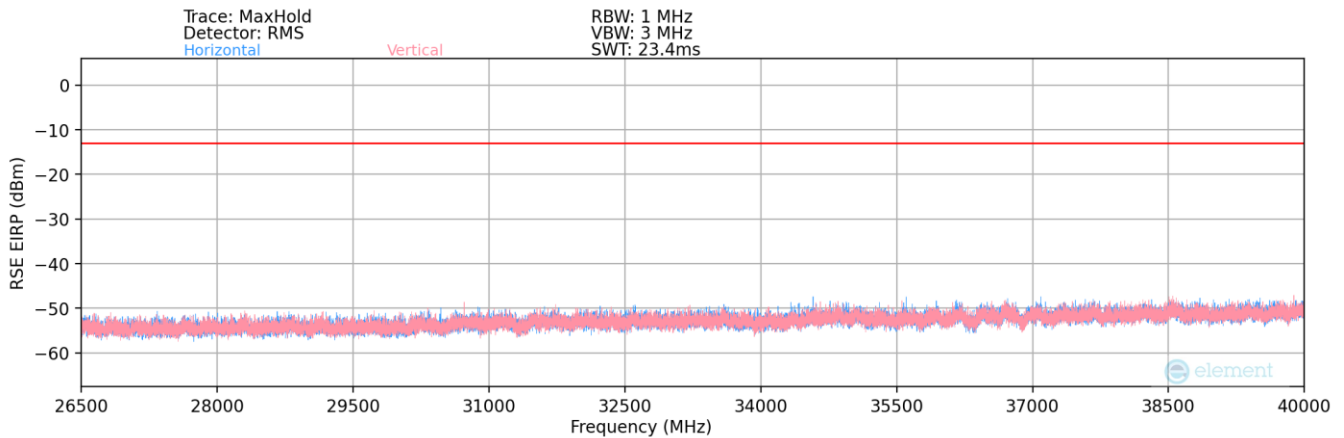
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 115 of 136



Plot 7-126. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77 – Ant3)



Plot 7-127. Radiated Spurious Plot – 18GHz – 25.5GHz (NR Band n77 – Ant3)



Plot 7-128. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77 – Ant3)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 116 of 136



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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.00	H	-	-	-77.36	9.72	39.36	-55.90	-13.00	-42.90
11250.00	H	170	105	-77.16	12.07	41.91	-53.35	-13.00	-40.35
15000.00	H	-	-	-79.38	14.86	42.48	-52.77	-13.00	-39.77
18750.00	H	-	-	-56.99	1.87	51.88	-52.92	-13.00	-39.92
22500.00	H	-	-	-57.34	3.97	53.63	-51.17	-13.00	-38.17

Table 7-39. Radiated Spurious Data (NR Band n77 – Low Channel – Ant3)

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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.00	H	-	-	-76.58	8.49	38.91	-56.35	-13.00	-43.35
11520.00	H	225	79	-78.10	12.59	41.49	-53.77	-13.00	-40.77
15360.00	H	-	-	-78.74	14.87	43.13	-52.13	-13.00	-39.13
19200.00	H	-	-	-57.35	2.25	51.90	-52.90	-13.00	-39.90
23040.00	H	-	-	-57.54	3.99	53.45	-51.35	-13.00	-38.35

Table 7-40. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant3)

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 [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	H	-	-	-77.20	8.96	38.76	-56.50	-13.00	-43.50
11790.00	H	-	-	-78.73	13.13	41.40	-53.86	-13.00	-40.86
15720.00	H	-	-	-78.34	15.19	43.85	-51.41	-13.00	-38.41
19650.00	H	-	-	-57.64	2.78	52.14	-52.66	-13.00	-39.66

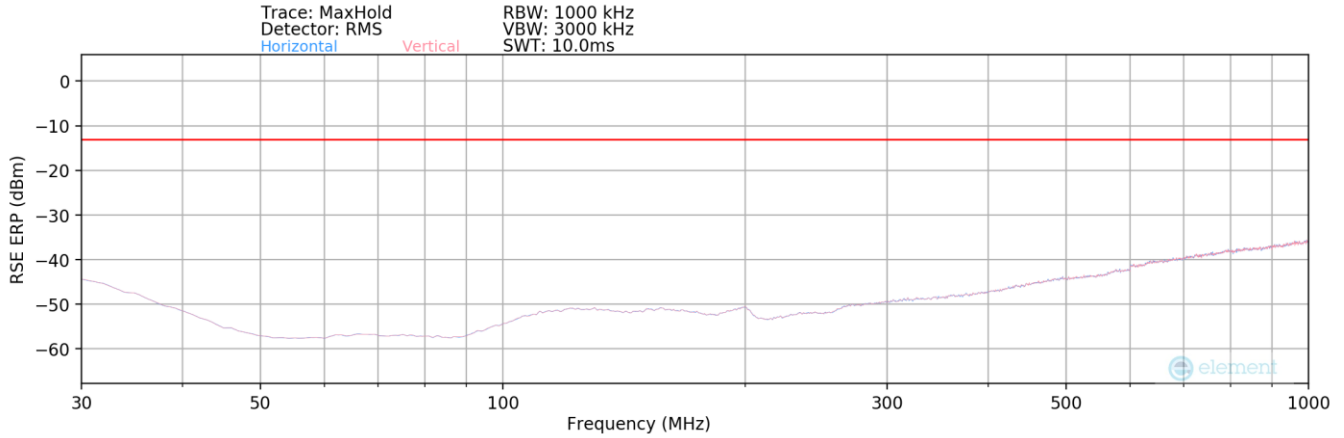
Table 7-41. Radiated Spurious Data (NR Band n77 – High Channel – Ant3)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 117 of 136





# NR Band n77 – Ant4



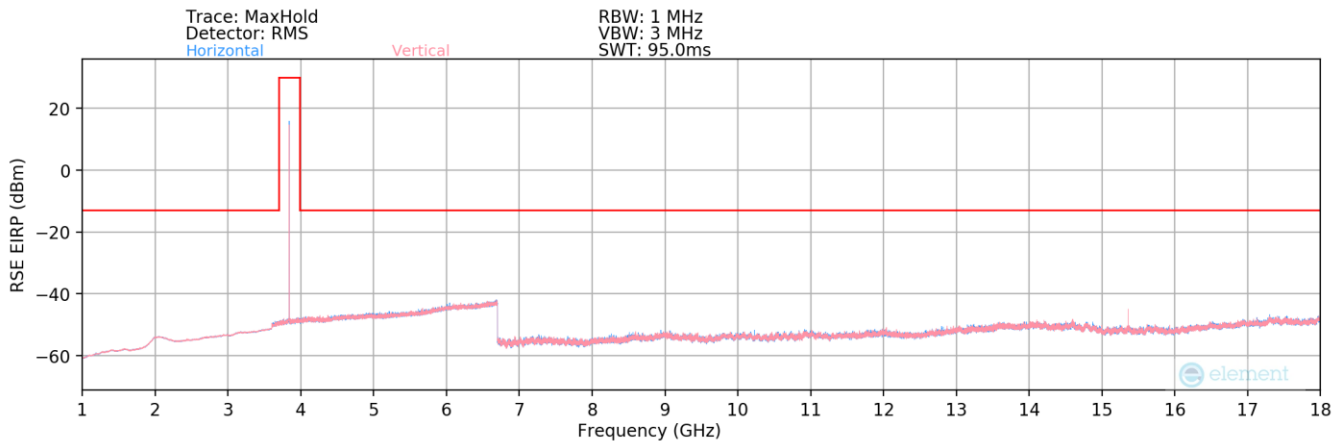
Plot 7-129. Radiated Spurious Plot – Below 1GHz (NR Band n77 – Ant4)

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

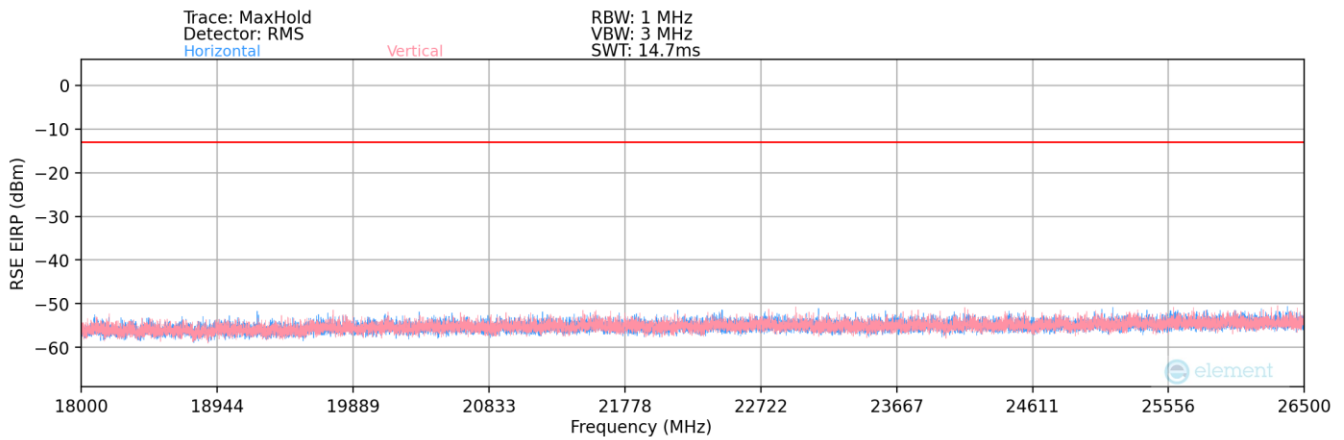
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
74.27	V	-	-	-80.68	14.74	41.06	-56.34	-13.00	-43.34
122.27	V	-	-	-80.39	20.63	47.24	-50.16	-13.00	-37.16
175.00	V	-	-	-81.03	18.97	44.94	-52.47	-13.00	-39.47

Table 7-42. Radiated Spurious Data – Below 1GHz (NR Band n77 – Ant4)

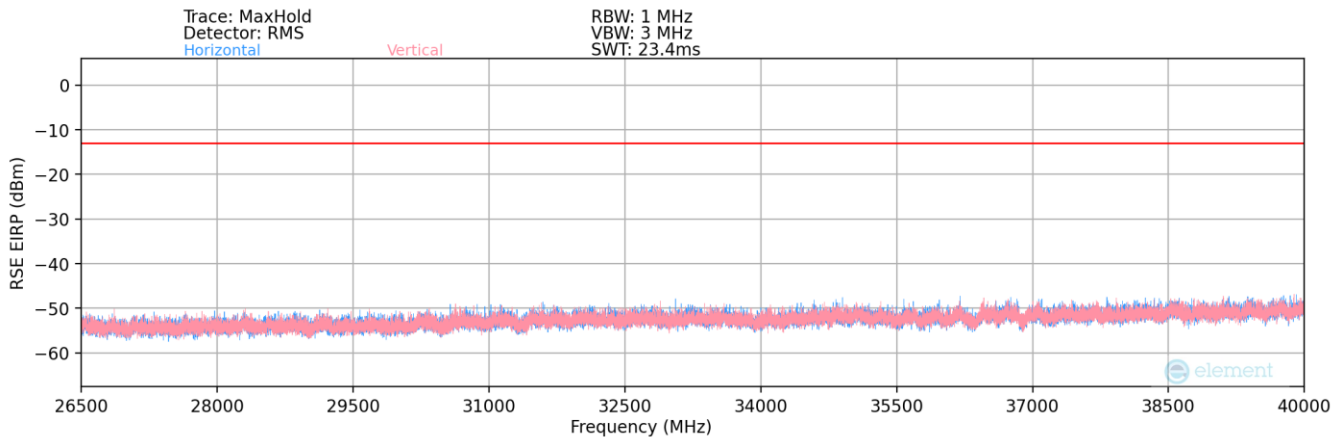
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 118 of 136



**Plot 7-130. Radiated Spurious Plot – 1GHz – 18GHz (NR Band n77 – Ant4)**



**Plot 7-131. Radiated Spurious Plot – 18GHz – 25.5GHz (NR Band n77 – Ant4)**



**Plot 7-132. Radiated Spurious Plot – 26.5GHz – 40GHz (NR Band n77 – Ant4)**

FCC ID: A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 119 of 136



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	-	-	-77.03	9.72	39.69	-55.57	-13.00	-42.57
11250.00	V	343	63	-73.92	12.07	45.15	-50.11	-13.00	-37.11
15000.00	V	126	358	-69.94	14.86	51.92	-43.33	-13.00	-30.33
18750.00	V	150	152	-53.38	1.87	55.49	-49.31	-13.00	-36.31
22500.00	V	-	-	-57.41	3.97	53.56	-51.24	-13.00	-38.24
26250.00	V	-	-	-57.38	4.35	53.97	-50.83	-13.00	-37.83
30000.00	V	-	-	-58.39	6.18	54.79	-50.01	-13.00	-37.01

Table 7-43. Radiated Spurious Data (NR Band n77 – Low Channel – Ant4)

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	-	-	-76.48	8.49	39.01	-56.25	-13.00	-43.25
11520.00	V	-	-	-79.28	12.59	40.31	-54.95	-13.00	-41.95
15360.00	V	172	343	-71.37	14.87	50.50	-44.76	-13.00	-31.76
19200.00	V	150	160	-54.97	2.25	54.28	-50.52	-13.00	-37.52
23040.00	V	-	-	-57.24	3.99	53.75	-51.05	-13.00	-38.05
26880.00	V	-	-	-57.72	4.75	54.03	-50.77	-13.00	-37.77
30720.00	V	-	-	-56.95	6.80	56.85	-47.95	-13.00	-34.95

Table 7-44. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant4)

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

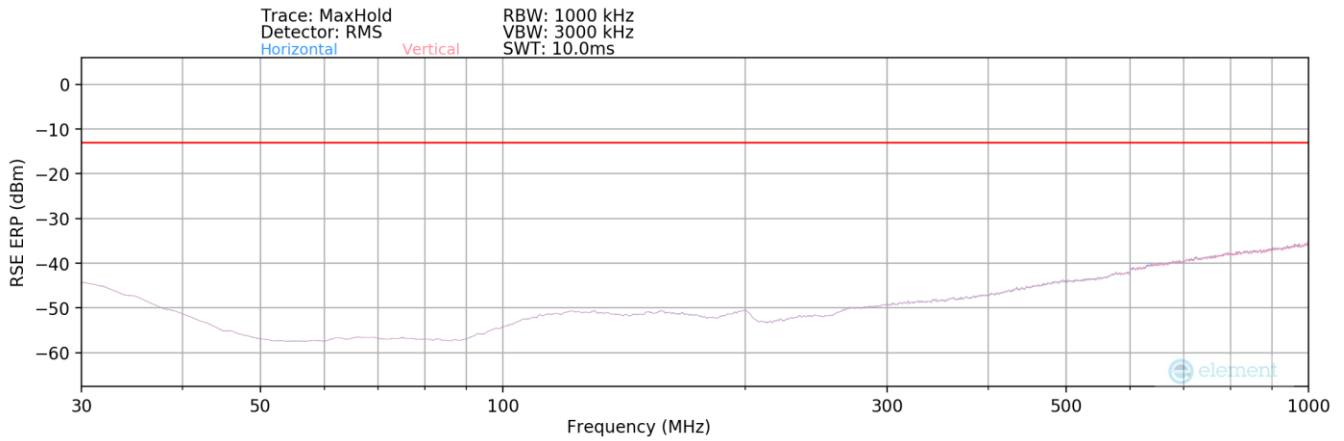
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	V	-	-	-76.76	8.96	39.20	-56.06	-13.00	-43.06
11790.00	V	165	347	-73.50	13.13	46.63	-48.63	-13.00	-35.63
15720.00	V	151	24	-67.12	15.19	55.07	-40.19	-13.00	-27.19
19650.00	V	150	176	-53.33	2.78	56.45	-48.35	-13.00	-35.35
23580.00	V	-	-	-57.85	4.00	53.15	-51.65	-13.00	-38.65
27510.00	V	-	-	-57.71	4.62	53.91	-50.89	-13.00	-37.89
31440.00	V	-	-	-56.94	6.99	57.05	-47.75	-13.00	-34.75

Table 7-45. Radiated Spurious Data (NR Band n77 – High Channel – Ant4)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n77 (DoD Band) – Ant1



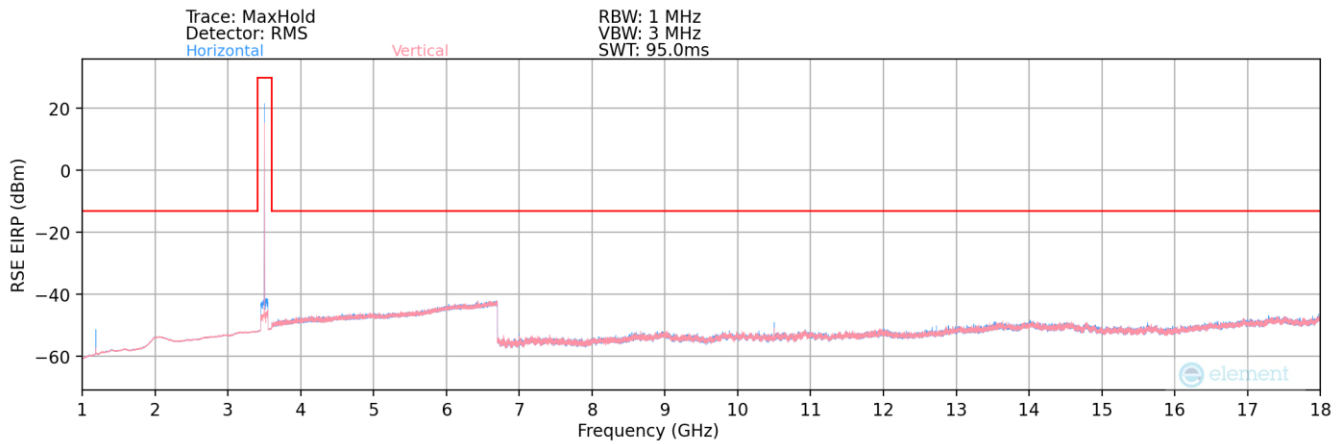
Plot 7-133. Radiated Spurious Plot – Below 1GHz (NR Band n77 (DoD) – Ant1)

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

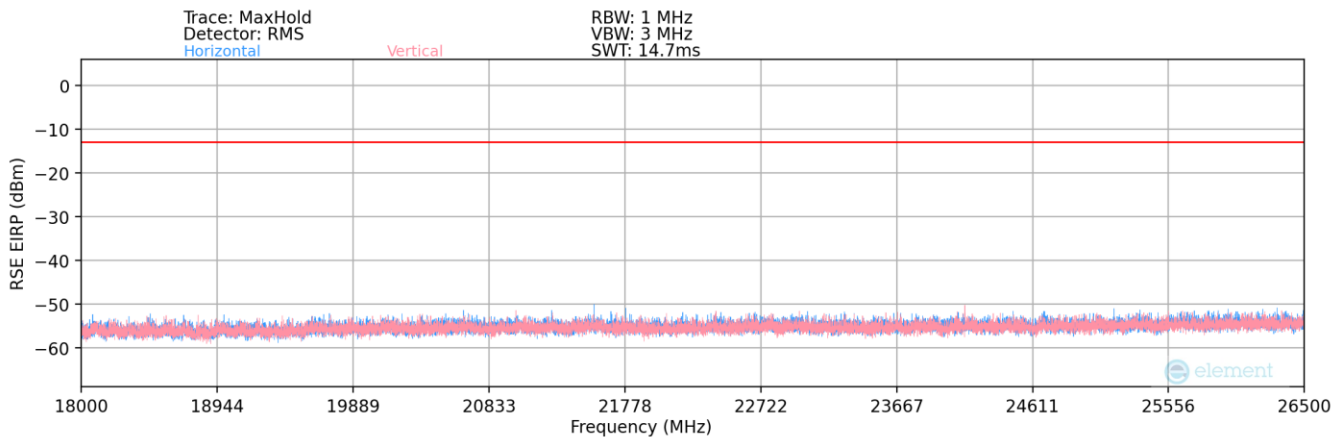
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
127.00	H	-	-	-79.69	20.42	47.73	-49.68	-13.00	-36.68
235.00	H	-	-	-80.73	18.55	44.82	-52.59	-13.00	-39.59
506.00	H	-	-	-80.89	25.81	51.92	-45.48	-13.00	-32.48

Table 7-46. Radiated Spurious Data with WCP (NR Band n77 (DoD) – Ant1)

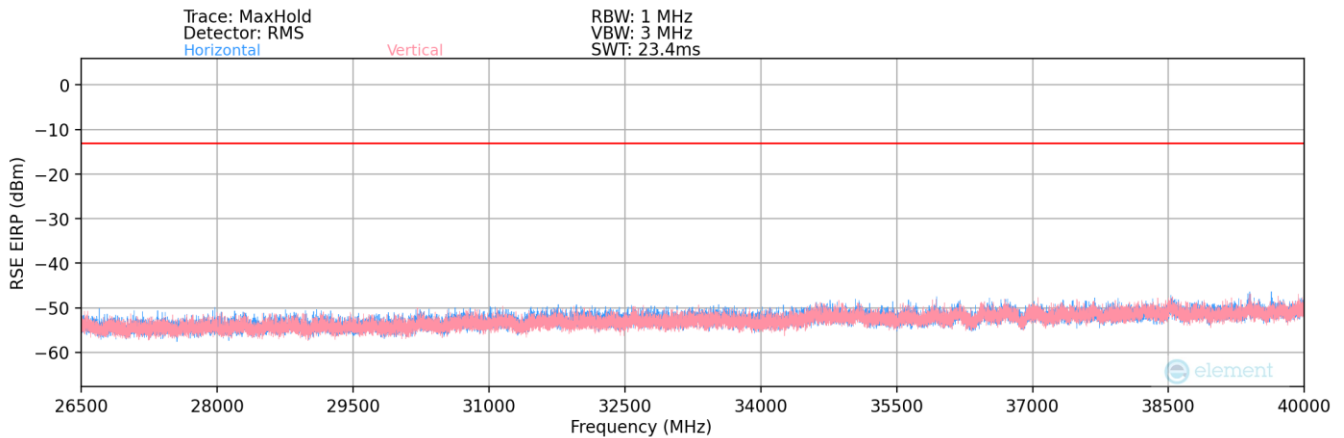
FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2308210093-05.A3L	Test Dates: 9/12/2023 - 10/13/2023	EUT Type: Portable Handset	Page 121 of 136



**Plot 7-134. Radiated Spurious Plot - 1GHz - 18GHz (NR Band n77 (DoD) - Ant1)**



**Plot 7-135. Radiated Spurious Plot - 18GHz - 25.5GHz (NR Band n77 (DoD) - Ant1)**



**Plot 7-136. Radiated Spurious Plot - 26.5GHz - 40GHz (NR Band n77 (DoD) - Ant1)**

<b>FCC ID:</b> A3LSMS928B	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2308210093-05.A3L	<b>Test Dates:</b> 9/12/2023 - 10/13/2023	<b>EUT Type:</b> Portable Handset	Page 122 of 136



Bandwidth (MHz):	100
Frequency (MHz):	3500.01
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]
7000.02	H	145	327	-71.06	8.71	44.65	-50.61	-13.00	-37.61
10500.03	H	144	219	-72.44	11.97	46.53	-48.73	-13.00	-35.73
14000.04	H	171	323	-75.76	15.96	47.20	-48.06	-13.00	-35.06
17500.05	H	-	-	-78.52	17.31	45.79	-49.47	-13.00	-36.47
21000.06	H	-	-	-58.01	3.66	52.65	-52.15	-13.00	-39.15
24500.07	H	-	-	-57.46	4.10	53.64	-51.16	-13.00	-38.16

Table 7-47. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant1)

FCC ID: A3LSMS928B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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