

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 10th 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(k) and Part 27.53(l), 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.

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Mode	Bandwidth	Channel	Range	Level	Limit	Margin
	Bullatia		[MHz]	[dBm]	[dBm]	[dB]
		Mid	30.0 - 3450.0	-32.39	-13	-19.39
NR-n77PC3-R1	100MHz	Mid	3550.0 - 20000.0	-27.70	-13	-14.70
		Mid	20000.0 - 40000.0	-24.46	-13	-11.46
NR-n77PC3	100MHz	Low	30.0 - 3700.0	-31.14	-13	-18.14
		Low	3930.0 - 20000.0	-30.46	-13	-17.46
		Low	20000.0 - 40000.0	-25.75	-13	-12.75
		Mid	30.0 - 3700.0	-27.98	-13	-14.98
		Mid	3930.0 - 20000.0	-30.17	-13	-17.17
		Mid	20000.0 - 40000.0	-24.94	-13	-11.94
		High	30.0 - 3700.0	-29.71	-13	-16.71
		High	3930.0 - 20000.0	-29.11	-13	-16.11
		High	20000.0 - 40000.0	-24.78	-13	-11.78

Figure 7-4. Conducted Emission Test Results – Ant F

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NR Band n77 – Ant F



Plot 7-67. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)



Plot 7-68. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel – Ant F)

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Plot 7-69. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant F)

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NR Band n77 (DoD Band) – Ant F



Plot 7-70. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)



Plot 7-71. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

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Plot 7-72. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant F)

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Modo	Bandwidth	Channel	Range	Level	Limit	Margin
MOGE	Banuwiutii	Channel	[MHz]	[dBm]	[dBm]	[dB]
		Mid	30.0 - 3450.0	-32.79	-13	-19.79
DoD Band	100MHz	Mid	3550.0 - 20000.0	-33.04	-13	-20.04
DOD Dand		Mid	20000.0 - 40000.0	-34.34	-13	-21.34
	100MHz	Low	30.0 - 3700.0	-31.64	-13	-18.64
		Low	3930.0 - 20000.0	-32.06	-13	-19.06
		Low	20000.0 - 40000.0	-35.06	-13	-22.06
		Mid	30.0 - 3700.0	-31.50	-13	-18.50
C-Band		Mid	3930.0 - 20000.0	-32.17	-13	-19.17
C-Danu		Mid	20000.0 - 40000.0	-34.88	-13	-21.88
		High	30.0 - 3700.0	-32.81	-13	-19.81
		High	3930.0 - 20000.0	-30.86	-13	-17.86
		High	20000.0 - 40000.0	-35.00	-13	-22.00

Figure 7-6. Conducted Emission Test Results – Ant C

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NR Band n77 – Ant C



Plot 7-73. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant C)



Plot 7-74. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant C)

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Plot 7-75. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant C)

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NR Band n77 (DoD Band) – Ant C



Plot 7-76. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant C)



Plot 7-77. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant C)

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Plot 7-78. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant C)

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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Mid	30.0 - 3450.0	-30.18	-13	-17.18
DoD Bond	100MHz	Mid	3550.0 - 20000.0	-30.35	-13	-17.35
DOD Bariu		Mid	20000.0 - 40000.0	-34.95	-13	-21.95
	100MHz	Low	30.0 - 3700.0	-30.39	-13	-17.39
		Low	3930.0 - 20000.0	-32.75	-13	-19.75
		Low	20000.0 - 40000.0	-34.81	-13	-21.81
		Mid	30.0 - 3700.0	-31.09	-13	-18.09
C-Band		Mid	3930.0 - 20000.0	-32.63	-13	-19.63
C-Danu		Mid	20000.0 - 40000.0	-35.08	-13	-22.08
		High	30.0 - 3700.0	-29.65	-13	-16.65
		High	3930.0 - 20000.0	-32.32	-13	-19.32
		High	20000.0 - 40000.0	-34.36	-13	-21.36

Figure 7-7. Conducted Emission Test Results – Ant I

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NR Band n77 – Ant I



Plot 7-79. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant I)



Plot 7-80. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel – Ant I)

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Plot 7-81. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant I)

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NR Band n77 (DoD Band) – Ant I



Plot 7-82. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant I)

Spect Swep	rum Analy t SA	zer 1	+					Frequency	/ * 影
KEY RL	'SIGHT ↔ PASS	Input: RF Coupling: DC Align: Auto	Input Z: 50 0 Corrections: Freq Ref: In NFE: Off	Ω Atten: 32 dB On t (S)	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Trig: Free Run	(RMS <mark>123456</mark> M WWWWW ANNNNN	Center Frequency 11.775000000 GHz	Settings
1 Spe	ctrum	۲		B-61	00 d a	Mkr1	6.354 5 GHz	16.4500000 GHz	
Log		1 Dace		Ref Level 20.	UU aBm		-30.35 UBIII	Swept Span Zero Span	
10.0	Thace	11233						Full Span	
0.00								Start Freq 3.55000000 GHz	
-10.0 -20.0								Stop Freq 20.000000000 GHz	
-30.0		1	1				The Local District State of Local District State of Local District State of Local District State of Local Distribution State of Local Distribu	AUTO TUNE	
-40.0	land and some states			Hanay Hopey, Handbergan Polle Received a second statement		and a second	an provide for a set of a second grant little for a little	CF Step 1.645000000 GHz	
-50.0 -60.0								Auto Man	
-70.0								Freq Offset 0 Hz	
Start #Res	3.550 GH: BW 1.0 M	z Hz		#Video BW 3	.0 MHz	Sweep ~23	Stop 20.000 GHz 3.2 ms (32901 pts)	X Axis Scale Log Lin	
	5		? Jul 06, 20 7:35:49 P	23 M				Signal Track (Span Zoom)	

Plot 7-83. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant I)

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Plot 7-84. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant I)

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Mode	Bandwidth	Channel	Range	Level	Limit	Margin
Balluwiutii		Onanner	[MHz]	[dBm]	[dBm]	[dB]
		Mid	30.0 - 3450.0	-37.91	-13	-24.91
DoD Bond	100MHz	Mid	3550.0 - 20000.0	-32.71	-13	-19.71
DOD Band		Mid	20000.0 - 40000.0	-42.65	-13	-29.65
	100MHz	Low	30.0 - 3700.0	-33.98	-13	-20.98
		Low	3930.0 - 20000.0	-31.24	-13	-18.24
		Low	20000.0 - 40000.0	-34.94	-13	-21.94
		Mid	30.0 - 3700.0	-34.00	-13	-21.00
C-Band		Mid	3930.0 - 20000.0	-32.48	-13	-19.48
C-Danu		Mid	20000.0 - 40000.0	-35.55	-13	-22.55
		High	30.0 - 3700.0	-35.37	-13	-22.37
		High	3930.0 - 20000.0	-31.52	-13	-18.52
		High	20000.0 - 40000.0	-34.85	-13	-21.85

Figure 7-8. Conducted Emission Test Results – Ant D

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NR Band n77 – Ant D

Spectrum Analyzer 1 Swept SA	+			Frequency	· ▼ 😤
KEYSIGHT Input: RF L ↔ Coupling: DC Align: Auto	Input Z: 50 Ω Atten: 32 d Corrections: On Freq Ref: Int (S) NFE: Off	IB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A N N N N N	Center Frequency 1.865000000 GHz	Settings
1 Spectrum v			Mkr1 3.519 5 GHz	3.67000000 GHz	
Scale/Div 10 dB	Ref Level 2	20.00 dBm	-33.98 dBm	Swept Span Zero Span	
10.0				Full Span	
0.00				Start Freq 30.000000 MHz	
-20.0				Stop Freq 3.700000000 GHz	
-30.0				AUTO TUNE	
-40.0	di mendelah atan dan dari bertekan bertekan bertekan bertekan bertekan bertekan bertekan bertekan bertekan ber Bertekan bertekan ber		for a first of the physical sector of the standard sector of the sector	CF Step 367.000000 MHz	
-60.0				Auto Man	
-70.0				Freq Offset 0 Hz	
Start 30 MHz #Res BW 1.0 MHz	#Video BV	N 3.0 MHz	Stop 3.700 GHz Sweep ~5.68 ms (7341 pts)	X Axis Scale Log Lin	
100	? Jul 06, 2023 8:31:48 PM			Signal Track (Span Zoom)	

Plot 7-85. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant D)



Plot 7-86. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant D)

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Plot 7-87. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - Low Channel - Ant D)

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NR Band n77 (DoD Band) – Ant D



Plot 7-88. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant D)



Plot 7-89. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant D)

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Plot 7-90. Conducted Spurious Plot (NR Band n77 (DoD) - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant D)

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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 $\geq 2 \times \text{Span/RBW}$
- 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

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Test Notes

- Per Part 27.53(I), 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.

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Mada	Bondwidth	Channel	Toot Cooo	Level	Limit	Margin
Mode	Bandwidth	Channer	Test Case	[dBm]	[dBm]	[dB]
		Low	Band Edge	-33.99	-13	-20.99
	TUUIVIEZ	High	Band Edge	-28.74	-13	-15.74
		Low	Band Edge	-34.26	-13	-21.26
	90MHz	High	Band Edge	-30.18	-13	-17.18
	001411-	Low	Band Edge	-33.66	-13	-20.66
	80MHz	High	Band Edge	-30.19	-13	-17.19
		Low	Band Edge	-33.64	-13	-20.64
		High	Band Edge	-30.85	-13	-17.85
	60MHz	Low	Band Edge	-33.40	-13	-20.40
		High	Band Edge	-28.84	-13	-15.84
NR-n77PC3		Low	Band Edge	-32.05	-13	-19.05
C Band	5010172	High	Band Edge	-28.16	-13	-15.16
		Low	Band Edge	-32.09	-13	-19.09
	4010172	High	Band Edge	-28.48	-13	-15.48
	2011-	Low	Band Edge	-31.66	-13	-18.66
		High	Band Edge	-27.90	-13	-14.90
	2014	Low	Band Edge	-30.84	-13	-17.84
	20101112	High	Band Edge	-27.58	-13	-14.58
		Low	Band Edge	-29.06	-13	-16.06
		High	Band Edge	-26.41	-13	-13.41
	10MH7	Low	Band Edge	-28.42	-13	-15.42
		High	Band Edge	-25.66	-13	-12.66

Table 7-11. Conducted Band Edge Test Results – Ant F – C Band

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NR Band n77 – Ant F



Plot 7-91. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK - Full RB - Ant F)



Plot 7-92. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK - Full RB - Ant F)

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-36.05	-13	-23.05
		High	Band Edge	-33.56	-13	-20.56
	90MHz	Low	Band Edge	-35.13	-13	-22.13
		High	Band Edge	-33.79	-13	-20.79
	80MHz	Low	Band Edge	-34.91	-13	-21.91
		High	Band Edge	-33.79	-13	-20.79
	70MHz	Low	Band Edge	-34.30	-13	-21.30
		High	Band Edge	-34.69	-13	-21.69
	60MHz	Low	Band Edge	-32.41	-13	-19.41
		High	Band Edge	-34.22	-13	-21.22
NR-n77PC3	50MH-7	Low	Band Edge	-31.97	-13	-18.97
DoD Band	5010112	High	Band Edge	-34.69	-13	-21.69
		Low	Band Edge	-30.59	-13	-17.59
	4010112	High	Band Edge	-33.37	-13	-20.37
	30MH-	Low	Band Edge	-30.03	-13	-17.03
	3010112	High	Band Edge	-37.60	-13	-24.60
	2014	Low	Band Edge	-29.33	-13	-16.33
	2010112	High	Band Edge	-32.48	-13	-19.48
	15MU-	Low	Band Edge	-28.05	-13	-15.05
		High	Band Edge	-33.47	-13	-20.47
	1011-	Low	Band Edge	-26.87	-13	-13.87
		High	Band Edge	-29.85	-13	-16.85

Table 7-12. Conducted Band Edge Test Results – Ant F – DoD Band

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Test Report S/N:	Test Dates:	EUT Type:	Page 70 of 120
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NR Band n77 (DoD Band) – Ant F



Plot 7-93. Lower ACP Plot (NR Band n77 (DoD) - 10MHz CP-OFDM-QPSK - Full RB - Ant F)



Plot 7-94. Upper ACP Plot (NR Band n77 (DoD) - 10MHz CP-OFDM-QPSK - Full RB - Ant F)

FCC ID: A3LSMS711B		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 90 of 100
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC3		Low	Band Edge	-35.96	-13	-22.96
DoD Band		High	Band Edge	-33.46	-13	-20.46
Modo	Bandwidth	Channol	Tost Caso	Level	Limit	Margin
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
Mode NR-n77PC3	Bandwidth	Channel Low	Test Case Band Edge	Level [dBm] -28.59	Limit [dBm] -13	Margin [dB] -15.59

Table 7-13. Conducted Band Edge Test Results – Ant C

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 91 of 120	
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NR Band n77 (DoD Band) – Ant C



Plot 7-96. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - Ant C)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 92 of 120	
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NR Band n77 – Ant C





Plot 7-98. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - Ant C)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 92 of 120	
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Modo	Bandwidth	Channol	Channel Test Case		Limit	Margin
NIOCE	Bandwidth	Channel	Test Case	[dBm]	[dBm]	[dB]
NR-n77PC3	100MHz	Low	Band Edge	-35.58	-13	-22.58
DoD Band		High	Band Edge	-36.50	-13	-23.50
		_				
Mada	Bandwidth	Channel	Tost Caso	Level	Limit	Margin
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
Mode NR-n77PC3	Bandwidth	Channel Low	Test Case Band Edge	Level [dBm] -35.08	Limit [dBm] -13	Margin [dB] -22.08

Table 7-14. Conducted Band Edge Test Results – Ant I

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 84 of 120	
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NR Band n77 (DoD Band) – Ant I



Start 3	.425 GH	z		Stop 3.675 GHz						
4 All R	ange Tab	le 🔻								
						Measure Tra	ice		TI	ace 1
						Trace Type		Tra	ice Average (A	ctive)
	Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amp	litude	∆Limit	
	1	- 1	3.4250 GHz	3.5500 GHz	1.000 MHz	3.504791667 GHz	3.88	6 dBm	-22.11 dB	
	2	2	3.5500 GHz	3.5510 GHz	360.0 kHz	3.550021667 GHz	-37.6	5 dBm	-24.65 dB	
	3	3	3.5510 GHz	3.5550 GHz	510.0 kHz	3.551960000 GHz	-37.7	0 dBm	-24.70 dB	
	4	4	3.5550 GHz	3.6750 GHz	1.000 MHz	3.556200000 GHz	-36.5	0 dBm	-23.50 dB	
1	5	2		06, 2023						X

Plot 7-100. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - Ant I)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 85 of 120	
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NR Band n77 – Ant I





Plot 7-102. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - Ant I)

FCC ID: A3LSMS711B		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Dogo 96 of 120	
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR-n77PC3	100MHz	Low	Band Edge	-33.69	-13	-20.69
DoD Band		High	Band Edge	-29.42	-13	-16.42
	lodo Bandwidth					
Mode	Bandwidth	Channel	Test Case	Level	Limit	Margin
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
Mode NR-n77PC3	Bandwidth	Channel Low	Test Case Band Edge	Level [dBm] -31.84	Limit [dBm] -13	Margin [dB] -18.84

Table 7-15. Conducted Band Edge Test Results – Ant D

FCC ID: A3LSMS711B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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NR Band n77 (DoD Band) – Ant D



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



Plot 7-104. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - Ant D)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 99 of 120
1M2304260063-08.A3L	5/30 - 8/4/2023	Portable Handset	Fage 66 01 129
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NR Band n77 – Ant D



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



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

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 90 of 120	
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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 ≥ 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

The Peak to Average Ratio was only measured on the main antenna SRS 0 (Ant F).

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 00 of 120
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
		π/2 BPSK	25.10	4.34	13	-8.66
	100MHz	QPSK	22.61	7.10	13	-5.90
		256QAM	19.14	7.88	13	-5.12
		π/2 BPSK	25.09	3.88	13	-9.12
	90MHz	QPSK	22.55	7.14	13	-5.86
		256QAM	19.09	7.85	13	-5.15
		π/2 BPSK	25.06	4.32	13	-8.68
	80MHz	QPSK	22.54	7.16	13	-5.84
		256QAM	19.07	7.91	13	-5.09
		π/2 BPSK	25.06	4.02	13	-8.98
	70MHz	QPSK	22.53	7.16	13	-5.84
		256QAM	19.05	7.92	13	-5.08
		π/2 BPSK	25.06	3.70	13	-9.30
60MH	60MHz	QPSK	22.55	7.16	13	-5.84
		256QAM	19.06	7.80	13	-5.20
		π/2 BPSK	25.03	4.05	13	-8.95
C Band	50MHz	QPSK	22.53	7.18	13	-5.82
O Dana		256QAM	19.06	7.84	13	-5.16
		π/2 BPSK	25.02	3.96	13	-9.04
40N	40MHz	QPSK	22.52	7.20	13	-5.80
		256QAM	19.05	7.81	13	-5.19
		π/2 BPSK	25.01	3.93	13	-9.07
	30MHz	QPSK	22.52	7.21	13	-5.79
		256QAM	19.03	7.81	13	-5.19
		π/2 BPSK	24.66	4.19	13	-8.81
20MH	20MHz	QPSK	22.33	7.30	13	-5.70
		256QAM	18.99	7.95	13	-5.05
		π/2 BPSK	24.56	4.22	13	-8.78
	15MHz	QPSK	22.42	7.18	13	-5.82
		256QAM	18.97	7.78	13	-5.22
		π/2 BPSK	24.75	4.12	13	-8.88
	10MHz	QPSK	22.44	7.15	13	-5.85
		256QAM	18.96	7.63	13	-5.37

Table 7-16. PAR Test Results – Ant F – C Band

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 01 of 120
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NR Band n77 – Ant F



Plot 7-107. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB – Ant F)



Plot 7-108. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant F)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 02 of 120
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Plot 7-109. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 02 of 120
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
		π/2 BPSK	25.47	4.78	13	-8.22
	100MHz	QPSK	23.01	7.66	13	-5.34
		256QAM	19.57	8.59	13	-4.41
		π/2 BPSK	25.42	4.18	13	-8.82
	90MHz	QPSK	22.99	7.67	13	-5.33
		256QAM	19.45	8.54	13	-4.46
		π/2 BPSK	25.39	4.75	13	-8.25
	80MHz	QPSK	22.89	7.69	13	-5.31
		256QAM	19.40	8.60	13	-4.40
		π/2 BPSK	25.40	4.33	13	-8.67
	70MHz	QPSK	22.88	7.67	13	-5.33
		256QAM	19.42	8.19	13	-4.81
		π/2 BPSK	25.35	4.22	13	-8.78
60MHz	60MHz	QPSK	22.83	7.65	13	-5.35
		256QAM	19.40	8.16	13	-4.84
		π/2 BPSK	25.34	4.53	13	-8.47
DoD Band	50MHz	QPSK	22.82	7.64	13	-5.36
		256QAM	19.39	8.16	13	-4.84
		π/2 BPSK	25.29	4.41	13	-8.59
40M	40MHz	QPSK	22.80	7.63	13	-5.37
		256QAM	19.36	8.56	13	-4.44
		π/2 BPSK	25.31	4.37	13	-8.63
	30MHz	QPSK	22.77	7.65	13	-5.35
		256QAM	19.34	8.50	13	-4.50
		π/2 BPSK	24.26	5.23	13	-7.77
20MHz	20MHz	QPSK	22.59	7.70	13	-5.30
		256QAM	19.20	8.83	13	-4.17
		π/2 BPSK	24.70	4.73	13	-8.27
	15MHz	QPSK	22.52	7.72	13	-5.28
		256QAM	19.21	8.57	13	-4.43
		π/2 BPSK	25.12	4.47	13	-8.53
	10MHz	QPSK	22.43	7.86	13	-5.14
		256QAM	19.16	8.55	13	-4.45

Table 7-17. PAR Test Results – AntF – DoD Band

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77 (DoD Band) – Ant F



Plot 7-110. PAR Plot (NR Band n77 (DoD) - 100MHz DFT-s-OFDM BPSK - Full RB – Ant F)



Plot 7-111. PAR Plot (NR Band n77 (DoD) - 100MHz CP-OFDM QPSK - Full RB - Ant F)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 05 of 120
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Plot 7-112. PAR Plot (NR Band n77 (DoD) - 100MHz CP-OFDM 256-QAM - Full RB – Ant F)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 06 of 120
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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

- 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 $\geq 2 \times \text{span} / \text{RBW}$
- 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: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
	π/2 BPSK	3750.00	н	103	303	7.03	1 / 136	15.87	22.90	0.195	33.01	-10.11
z	π/2 BPSK	3840.00	Н	102	303	7.13	1 / 136	15.56	22.69	0.186	33.01	-10.32
ни	π/2 BPSK	3930.00	н	111	298	7.39	1 / 136	15.88	23.27	0.213	33.01	-9.74
g	QPSK	3750.00	н	103	303	7.03	1/136	15.71	22.74	0.188	33.01	-10.27
¥	OPSK	3840.00		102	202	7.13	1/130	15.44	22.57	0.181	33.01	- 10.44
	16-0AM	3930.00	п	111	290	7.39	1 / 136	15.71	23.10	0.204	33.01	-9.91
	π/2 BPSK	3745.02	н	103	303	7.03	1/61	15.40	22.13	0.190	33.01	-10.22
	π/2 BPSK	3840.00	Н	102	303	7.13	1/122	15.66	22.79	0.190	33.01	-10.22
우	π/2 BPSK	3934.98	н	111	298	7.40	1 / 122	16.00	23.40	0.219	33.01	-9.61
WH	QPSK	3745.02	н	103	303	7.03	1 / 61	15.62	22.65	0.184	33.01	-10.36
06	QPSK	3840.00	Н	102	303	7.13	1 / 122	15.44	22.57	0.181	33.01	-10.44
	QPSK	3934.98	Н	111	298	7.40	1 / 122	15.77	23.17	0.208	33.01	-9.84
	16-QAM	3840.00	Н	102	303	7.13	1 / 122	15.76	22.89	0.194	33.01	-10.12
	π/2 BPSK	3740.01	Н	103	303	7.03	1 / 108	15.71	22.74	0.188	33.01	-10.27
N	π/2 BPSK	3840.00	н	102	303	7.13	1 / 108	15.64	22.77	0.189	33.01	-10.24
Η̈́́	TT/2 BPSK	3939.99	H	111	298	7.41	1/108	15.92	23.32	0.215	33.01	-9.69
0	OPSK	3840.00	п	103	303	7.03	1 / 108	15.00	22.00	0.101	33.01	-10.43
8	OPSK	3939.99	н	111	298	7.10	1 / 108	15.40	23.01	0.200	33.01	-10.00
	16-QAM	3939.99	н	111	298	7.41	1 / 108	15.37	22.77	0.189	33.01	-10.24
	π/2 BPSK	3735.00	н	103	303	7.03	1 / 47	16.40	23.43	0.220	33.01	-9.58
	π/2 BPSK	3840.00	Н	102	303	7.13	1 / 47	16.06	23.19	0.208	33.01	-9.82
보	π/2 BPSK	3945.00	Н	111	298	7.41	1 / 47	16.15	23.56	0.227	33.01	-9.45
Σ	QPSK	3735.00	н	103	303	7.03	1 / 47	16.20	23.23	0.211	33.01	-9.78
20	QPSK	3840.00	н	102	303	7.13	1 / 47	15.88	23.01	0.200	33.01	-10.00
	QPSK	3945.00	н	111	298	7.41	1 / 47	15.97	23.38	0.218	33.01	-9.63
	16-QAM	3840.00	н	102	303	7.13	1/47	16.14	23.27	0.212	33.01	-9.74
	π/2 BPSK	3730.02	н	103	303	7.03	1/40	16.29	23.32	0.215	33.01	-9.69
N	TI/2 BPSK	3640.00		102	303	7.13	1/40	16.08	23.21	0.209	33.01	-9.80
НИ	OPSK	3730.02	н	103	290	7.42	1/40	16.12	23.03	0.231	33.01	-9.30
00	OPSK	3840.00	н	103	303	7.13	1/40	15.86	22.99	0.199	33.01	-10.02
Ű	QPSK	3949.98	Н	111	298	7.42	1 / 40	16.06	23.47	0.223	33.01	-9.54
	16-QAM	3840.00	н	102	303	7.13	1 / 40	16.16	23.29	0.213	33.01	-9.72
	π/2 BPSK	3725.01	н	103	303	7.03	1 / 33	16.19	23.22	0.210	33.01	-9.79
	π/2 BPSK	3840.00	Н	102	303	7.13	1 / 33	15.93	23.06	0.202	33.01	-9.95
되	π/2 BPSK	3954.99	Н	111	298	7.43	1 / 33	16.07	23.49	0.224	33.01	-9.52
M	QPSK	3725.01	н	103	303	7.03	1 / 33	16.00	23.03	0.201	33.01	-9.98
20	QPSK	3840.00	н	102	303	7.13	1/33	15.77	22.90	0.195	33.01	-10.11
	QPSK 40 OAM	3954.99	н	111	298	7.43	1/33	15.92	23.34	0.216	33.01	-9.67
	π/2 BPSK	3954.99	п	103	298	7.43	1/33	15.69	23.11	0.205	33.01	-9.90
	π/2 BPSK	3840.00	н	103	303	7.03	1/20	15.94	23.10	0.200	33.01	-9.94
부	π/2 BPSK	3960.00	н	111	298	7.44	1/26	15.93	23.36	0.217	33.01	-9.65
MF MF	QPSK	3720.00	н	103	303	7.03	1/26	15.96	22.99	0.199	33.01	-10.02
40	QPSK	3840.00	н	102	303	7.13	1 / 26	15.76	22.89	0.194	33.01	-10.12
	QPSK	3960.00	Н	111	298	7.44	1 / 53	15.75	23.18	0.208	33.01	-9.83
	16-QAM	3840.00	Н	102	303	7.13	1 / 26	15.96	23.09	0.204	33.01	-9.92
	π/2 BPSK	3715.02	н	103	303	7.03	1 / 19	15.54	22.57	0.181	33.01	-10.44
N	π/2 BPSK	3840.00	н	102	303	7.13	1 / 19	15.83	22.96	0.198	33.01	-10.05
臣	π/2 BPSK	3964.98	н	111	298	7.45	1/19	16.06	23.50	0.224	33.01	-9.51
20	QPSK	3715.02	н	103	303	7.03	1/19	15.89	22.92	0.196	33.01	-10.09
с С	OPSK	3964.98	н	102	208	7.15	1/19	15.85	22.00	0.131	33.01	- 10.21
	16-QAM	3840.00	н	102	303	7.13	1/19	15.96	23.09	0.204	33.01	-9.92
	π/2 BPSK	3710.01	Н	103	303	7.03	1 / 25	16.02	23.05	0.202	33.01	-9.96
	π/2 BPSK	3840.00	н	102	303	7.13	1/37	15.82	22.95	0.197	33.01	-10.06
보	π/2 BPSK	3969.99	н	111	298	7.46	1 / 13	15.94	23.39	0.218	33.01	-9.62
×	QPSK	3710.01	Н	103	303	7.03	1 / 13	15.87	22.90	0.195	33.01	-10.11
50	QPSK	3840.00	Н	102	303	7.13	1 / 37	15.64	22.77	0.189	33.01	-10.24
	QPSK	3969.99	н	111	298	7.46	1 / 13	15.78	23.23	0.211	33.01	-9.78
	16-QAM	3840.00	н	102	303	7.13	1/37	15.86	22.99	0.199	33.01	-10.02
	TI/2 BPSK	3707.51		103	303	7.03	1/9	16.00	23.03	0.201	33.01	-9.98
N	π/2 BPSK	3972 50	н	102	208	7.13	1/19	15.79	22.92	0.190	33.01	- 10.09
W	OPSK	3707 51	н	103	303	7.40	1/9	15.84	22.87	0.194	33.01	-10.14
15	QPSK	3840.00	н	102	303	7.13	1/28	15.64	22.77	0.189	33.01	-10.24
	QPSK	3972.50	Н	111	298	7.46	1/9	15.73	23.19	0.209	33.01	-9.82
	16-QAM	3840.00	н	102	303	7.13	1 / 28	15.86	22.99	0.199	33.01	-10.02
	π/2 BPSK	3705.00	н	103	303	7.03	1 / 12	15.95	22.98	0.199	33.01	-10.03
	π/2 BPSK	3840.00	Н	102	303	7.13	1 / 17	15.72	22.85	0.193	33.01	-10.16
Ŧ	π/2 BPSK	3975.00	Н	111	298	7.47	1/6	15.77	23.23	0.211	33.01	-9.78
Σ	QPSK	3705.00	н	103	303	7.03	1 / 12	15.81	22.84	0.192	33.01	-10.17
Ę	QPSK	3840.00	н	102	303	7.13	1/6	15.51	22.64	0.184	33.01	-10.37
	QPSK	3975.00	н	111	298	7.47	1/6	15.44	22.90	0.195	33.01	-10.11
		3840.00	н	102	303	7.13	1/1/	15./1	22.84	0.192	33.01	-10.17
100 MHz	OPSK (UP-UFDIVI)	3030.0		160	290	7 30	1/126	14.60	16.72	0.100	33.01	-10.77
		3330.0		109	514	1.39	17130	3.33	10.72	0.047	33.01	-10.29

Table 7-12. EIRP Data (NR Band n77 – Ant F)

FCC ID: A3LSMS711B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 00 of 120
1M2304260063-08.A3L	5/30 - 8/4/2023	Portable Handset	Fage 99 01 129
			1/0 0 1/0/0000



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]
	π/2 BPSK	3750.00	Н	102	40	7.01	1 / 136	14.67	21.68	0.147	33.01	-11.33
	π/2 BPSK	3840.00	Н	101	40	7.15	1 / 136	12.01	19.16	0.082	33.01	-13.85
E E	π/2 BPSK	3930.00	Н	100	40	7.39	1 / 136	12.79	20.18	0.104	33.01	-12.83
≥	QPSK	3750.00	Н	102	40	7.01	1 / 136	14.55	21.56	0.143	33.01	-11.45
<u> </u>	QPSK	3840.00	Н	101	40	7.15	1 / 136	12.69	19.84	0.096	33.01	-13.17
	QPSK	3930.00	Н	100	40	7.39	1 / 136	12.64	20.03	0.101	33.01	-12.98
	16-QAM	3750.00	Н	102	40	7.01	1 / 136	12.48	19.49	0.089	33.01	-13.52
100 MHz	QPSK (CP-OFDM)	3750.0	Н	100	40	7.01	1/136	11.12	18.13	0.065	33.01	-14.88

Table 7-13. EIRP Data (NR Band n77 – Ant C)

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]
	π/2 BPSK	3750.00	Н	204	323	7.01	1/1	8.63	15.64	0.037	33.01	-17.37
	π/2 BPSK	3840.00	Н	202	315	7.15	1/1	8.50	15.65	0.037	33.01	-17.36
臣	π/2 BPSK	3930.00	Н	192	338	7.39	1/1	6.95	14.34	0.027	33.01	-18.67
2	QPSK	3750.00	Н	204	323	7.01	1/1	7.60	14.61	0.029	33.01	-18.40
100	QPSK	3840.00	Н	202	315	7.15	1/1	9.69	16.84	0.048	33.01	-16.17
	QPSK	3930.00	Н	192	338	7.39	1/1	7.23	14.62	0.029	33.01	-18.39
	16-QAM	3840.00	Н	202	315	7.15	1/1	5.54	12.69	0.019	33.01	-20.32
100 MHz	QPSK (CP-OFDM)	3840.0	Н	202	315	7.15	1/1	6.43	13.58	0.023	33.01	-19.43

Table 7-14. EIRP Data (NR Band n77 - Ant I)

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]
	π/2 BPSK	3750.00	Н	110	19	7.01	1 / 136	9.86	16.87	0.049	33.01	-16.14
	π/2 BPSK	3840.00	Н	112	17	7.15	1 / 136	9.44	16.59	0.046	33.01	-16.42
E E	π/2 BPSK	3930.00	Н	124	20	7.39	1 / 136	11.83	19.22	0.084	33.01	-13.79
2	QPSK	3750.00	Н	110	19	7.01	1 / 136	9.15	16.16	0.041	33.01	-16.85
1 0 1	QPSK	3840.00	Н	112	17	7.15	1 / 136	8.14	15.29	0.034	33.01	-17.72
	QPSK	3930.00	Н	124	20	7.39	1 / 136	11.48	18.87	0.077	33.01	-14.14
	16-QAM	3930.00	Н	124	20	7.39	1 / 136	10.46	17.85	0.061	33.01	-15.16
100 MHz	QPSK (CP-OFDM)	3930	Н	124	20	7.39	1 / 136	10.13	17.52	0.057	33.01	-15.49

Table 7-15. EIRP Data (NR Band n77 – Ant D)

FCC ID: A3LSMS711B		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 100 of 120
1M2304260063-08.A3L	5/30 - 8/4/2023	Portable Handset	Fage 100 01 129
© 2023 ELEMENT			V3.0 1/6/2022

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Image by the second s	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]
OPSK 3500.01 H 122 340 6.46 1/136 11.73 20.33 0.106 33. TEDEPSK 3000.01 H 122 340 6.46 1/122 15.16 21.46 0.146 33. TEDEPSK 3000.01 H 122 340 6.46 1/122 15.12 21.56 0.144 33. TEDEPSK 300.01 H 122 340 6.46 1/122 14.17 21.43 0.144 33. TEDEPSK 300.01 H 122 340 6.46 1/122 14.17 14.31 13.33 30.01 33.33 30.01 33.33 30.01 33.33 33.33 30.01 33.33 30.01 33.33 30.01 33.33 30.01 33.33 30.01 33.33 33.33 30.01 33.33 30.01 33.33 30.01 33.33 33.33 33.33 33.33 33.33 33.33 33.33 33.33 33.33 33.33 </th <th>MF</th> <th>π/2 BPSK</th> <th>3500.01</th> <th>Н</th> <th>122</th> <th>340</th> <th>6.46</th> <th>1 / 136</th> <th>15.06</th> <th>21.52</th> <th>0.142</th> <th>33.01</th> <th>-11.49</th>	MF	π/2 BPSK	3500.01	Н	122	340	6.46	1 / 136	15.06	21.52	0.142	33.01	-11.49
T 10-QAM 3800.01 H 122 340 6.46 1/132 151.02 2.1.68 0.1.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.68 33.77 2.2.2 0.0.64 1.7.22 1.6.7 1.7.7 0.1.63 33.7 7.7 0.1.63 33.7 7.7 0.1.63 33.7 0.7.6 33.7 7.7 0.1.63 33.7 2.7.7 0.1.63 33.7 0.7.7 0.1.63 33.7 0.7.7 0.1.63 33.7 0.7.7 0.1.63 33.7 0.7.7 0.7.7 0.7.7 0.7.7 0.7.7 0.7.7 0.7.7 <t< th=""><th>8</th><th>QPSK</th><th>3500.01</th><th>Н</th><th>122</th><th>340</th><th>6.46</th><th>1 / 136</th><th>14.88</th><th>21.34</th><th>0.136</th><th>33.01</th><th>-11.67</th></t<>	8	QPSK	3500.01	Н	122	340	6.46	1 / 136	14.88	21.34	0.136	33.01	-11.67
Photo Photo <th< th=""><td>-</td><td>16-QAM</td><td>3500.01</td><td>Н</td><td>122</td><td>340</td><td>6.46</td><td>1 / 136</td><td>13.77</td><td>20.23</td><td>0.106</td><td>33.01</td><td>-12.78</td></th<>	-	16-QAM	3500.01	Н	122	340	6.46	1 / 136	13.77	20.23	0.106	33.01	-12.78
Mile Biss Soute N Liz Liz <thliz< t<="" th=""><th></th><th>π/2 BPSK</th><th>3495.00</th><th>н</th><th>122</th><th>340</th><th>6.46</th><th>1 / 122</th><th>15.18</th><th>21.64</th><th>0.146</th><th>33.01</th><th>-11.37</th></thliz<>		π/2 BPSK	3495.00	н	122	340	6.46	1 / 122	15.18	21.64	0.146	33.01	-11.37
Horse Joseph (mode) Joseph (mode) <td>N</td> <td>TT/2 BPSK</td> <td>3500.01</td> <td>н</td> <td>122</td> <td>340</td> <td>6.46</td> <td>1/122</td> <td>15.12</td> <td>21.58</td> <td>0.144</td> <td>33.01</td> <td>-11.43</td>	N	TT/2 BPSK	3500.01	н	122	340	6.46	1/122	15.12	21.58	0.144	33.01	-11.43
Pres 390011 H 122 340 6.46 1/122 1466 21.41 0.139 53 TP-GAM 3904.99 H 122 340 6.46 1/161 1516 22.07 0.10H 33 TP-BPSK 3900.02 H 122 340 6.46 1/161 1510 2156 0.142 33 TP2 BPSK 3900.01 H 122 340 6.46 1/161 1510 2158 0.142 33 OPSK 3900.01 H 122 340 6.46 1/164 1459 21.07 0.109 133 OPSK 3900.01 H 122 340 6.46 1/174 15.38 21.07 0.130 33 0.33	HW	OPSK	3495.00	н	122	340	6.46	1/122	13.12	21.30	0.144	33.01	-11.43
OPERK S00.49 H 102 340 6.46 1/161 1561 22.07 0.161 33 T2 BPSK S00.09 H 122 340 6.46 1/102 1371 20.17 1014 33 T2 BPSK S00.01 H 122 340 6.46 1/108 15.07 21.56 0.142 33 T2 BPSK S00.00 H 122 340 6.46 1/108 15.07 21.53 0.142 33 OPSK S00.00 H 122 340 6.46 1/108 15.07 21.53 0.142 33 OPSK S00.00 H 122 340 6.46 1/147 15.38 22.14 0.153 33 16.0 0.173 33 OPSK S00.01 H 122 340 6.46 1/147 15.38 22.16 0.148 33 OPSK S00.01 H 122 340 6.46 1/	6	QPSK	3500.01	н	122	340	6.46	1/122	14.97	21.43	0.139	33.01	-11.60
16-0.ML 3604.02 H 102 340 6.46 1/102 13.71 20.17 0.141 33. 172 BPSK 3600.02 H 122 340 6.46 1/108 15.00 215.0 0.142 33. 172 BPSK 3600.02 H 122 340 6.46 1/108 15.00 215.0 0.142 33. 0°FSK 3600.01 H 122 340 6.46 1/102 15.00 215.0 0.127 33. 0.138 33. 0.138 33. 0.138 33. 0.138 33. 33. 0.138 33. 33. 0.138 33. 33. 33. 0.144 1.33. 33. 33. 33. 33. 1.52.2 21.84 0.15.1 33. 33. 33. 0.44 1.47 1.5.42 21.87 0.148 33. 33. 33. 35. 0.64.2 1.47 1.5.42 21.70 0.148 33. 35. 0.64.2		QPSK	3504.99	н	122	340	6.46	1 / 61	15.61	22.07	0.161	33.01	-10.94
Tay Besk 3400.02 H 122 340 6.46 1/108 15.07 21.55 0.142 33. Toy Besk 350.00 H 122 340 6.46 1/108 15.07 21.55 0.142 33. OPSK 350.00 H 122 340 6.46 1/108 15.31 21.77 10.19 33. OPSK 350.00 H 122 340 6.46 1/108 13.83 20.09 0.102 33. IFGAM 3400.02 H 122 340 6.46 1/47 15.38 21.48 0.154 33. IFGEMM 3400.01 H 122 340 6.46 1/47 15.41 21.79 0.148 33. OPSK 3450.01 H 122 340 6.46 1/47 15.24 21.70 0.148 33. OPSK 3450.01 H 122 340 6.46 1/47 15.24 21.70 <th></th> <th>16-QAM</th> <th>3504.99</th> <th>Н</th> <th>122</th> <th>340</th> <th>6.46</th> <th>1 / 122</th> <th>13.71</th> <th>20.17</th> <th>0.104</th> <th>33.01</th> <th>-12.84</th>		16-QAM	3504.99	Н	122	340	6.46	1 / 122	13.71	20.17	0.104	33.01	-12.84
T2 PERK 3000.01 H T22 340 6.46 1/108 15.05 21:53 0.142 33 OPSK 330.00 H 122 340 6.46 1/162 15.05 21:77 0.150 33 OPSK 330.00 H 122 340 6.46 1/162 15.05 21:33 0.162 33 OPSK 330.00 H 122 340 6.46 1/17 15.38 21:33 0.162 33 OPSK 330.001 H 122 340 6.46 1/147 15.32 21:64 0.153 33 T2 DPSK 336.001 H 122 340 6.46 1/147 15.23 21:64 0.153 33 OPSK 336.001 H 122 340 6.46 1/147 15.24 21:70 0.148 33 OPSK 3360.01 H 122 340 6.46 <th1 140<="" th=""> 15.24<th></th><th>π/2 BPSK</th><th>3490.02</th><th>Н</th><th>122</th><th>340</th><th>6.46</th><th>1 / 108</th><th>15.10</th><th>21.56</th><th>0.143</th><th>33.01</th><th>-11.45</th></th1>		π/2 BPSK	3490.02	Н	122	340	6.46	1 / 108	15.10	21.56	0.143	33.01	-11.45
TH2 TH2 State State <thstate< th=""> State Stat</thstate<>		π/2 BPSK	3500.01	Н	122	340	6.46	1 / 108	15.07	21.53	0.142	33.01	-11.48
Provide Orisik 3400.02 H 1122 340 6.46 1/162 11.32 11.177 0.150 13.3 OPSK 350.001 H 1122 340 6.46 1/164 14.59 21.13.3 0.156 13.3 OPSK 350.001 H 1122 340 6.46 1/166 14.67 11.53 33.2 11.44 11.33 33.2 11.44 11.33 33.3 11.56 33.3 11.56 33.3 11.52 340 6.46 1/147 11.54 32.148 0.1154 33.3 T/2 BPSK 3514.38 H 1122 340 6.46 1/147 115.42 21.70 0.148 33.3 116.34 32.47 11.42 340 11.42 340 11.42 340 11.42 340 11.42 340 11.42 340 11.42 340 11.42 340 11.42 340 11.43 341.33 11.42 340 11.44 31.34 <td>E E</td> <td>π/2 BPSK</td> <td>3510.00</td> <td>Н</td> <td>122</td> <td>340</td> <td>6.46</td> <td>1 / 108</td> <td>15.05</td> <td>21.51</td> <td>0.142</td> <td>33.01</td> <td>-11.50</td>	E E	π/2 BPSK	3510.00	Н	122	340	6.46	1 / 108	15.05	21.51	0.142	33.01	-11.50
Product Statu International International <thinternational< th=""> International</thinternational<>	2	QPSK	3490.02	н	122	340	6.46	1 / 162	15.31	21.77	0.150	33.01	-11.24
THOO The Califier	[®]	QPSK	3500.01	н	122	340	6.46	1/54	14.59	21.05	0.127	33.01	-11.96
THM 00 THZ BPSK 3500.01 H 1122 340 6.46 1/47 15.38 21.84 0.153 333 THZ BPSK 3500.01 H 122 340 6.46 1/47 15.42 21.88 0.154 333 OPSK 3986.01 H 122 340 6.46 1/47 15.24 21.87 0.148 333 OPSK 3960.01 H 122 340 6.46 1/47 15.24 21.70 0.148 333 OPSK 350.01 H 122 340 6.46 1/47 15.24 21.70 0.148 333 TZ BPSK 350.00 H 122 340 6.46 1/40 15.42 21.88 0.153 318 0.153 318 0.153 318 0.153 318 0.153 1.122 340 6.46 1/40 15.15 21.81 0.141 1.22 340 6.46 1/40 15.15 21.81 <	l t	16-QAM	3490.02	н	122	340	6.46	1 / 108	13.63	20.09	0.102	33.01	-12.92
THO DE THO EPSK 300 01 H 122 340 6.46 1/47 15.42 21.88 0.154 33. THZ EPSK 3314.88 H 1122 340 6.46 1/47 15.42 21.87 0.154 33. OPSK 300.01 H 122 340 6.46 1/47 15.24 21.70 0.148 33. OPSK 300.01 H 122 340 6.46 1/47 15.24 21.70 0.148 33. TZ BPSK 300.01 H 122 340 6.46 1/40 15.37 21.81 0.154 33. 33. TZ BPSK 300.01 H 122 340 6.46 1/40 15.37 21.88 0.151 33. 33. OPSK 350.01 H 122 340 6.46 1/40 151.27 21.88 0.114 33. OPSK 350.01 H 122 340 6.46		π/2 BPSK	3485.01	Н	122	340	6.46	1/47	15.38	21.84	0.153	33.01	-11.17
PHO 02 Int 2 PByK 351.496 H 122 340 6.46 1/47 151.41 21.87 0.154 33. OPSK 398.001 H 1122 340 6.46 1/47 152.31 21.69 0.148 33. OPSK 350.01 H 1122 340 6.46 1/47 152.41 21.70 0.148 33. OPSK 350.01 H 1122 340 6.46 1/47 152.41 21.70 0.148 33. TV2.BFSK 360.00 H 1122 340 6.46 1/40 15.52 21.81 0.118 33. OPSK 350.01 H 1122 340 6.46 1/40 15.15 21.61 0.147 33. OPSK 350.01 H 122 340 6.46 1/40 15.15 21.61 0.147 33. IV2.BFSK 350.01 H 122 340 6.46 1/33 155	i i	π/2 BPSK	3500.01	н	122	340	6.46	1 / 47	15.42	21.88	0.154	33.01	-11.13
PTM 00 OPSiX 3486.01 H 122 340 6.46 1/47 15.23 21.69 0.148 33. OPSiX 3500.01 H 122 340 6.46 1/47 15.24 21.70 0.148 33. DFSiX 3480.00 H 122 340 6.46 1/47 14.24 21.70 0.148 33. m72 BPSiX 3480.00 H 122 340 6.46 1/40 15.35 21.81 0.152 33. m72 BPSiX 3500.01 H 122 340 6.46 1/40 15.37 21.61 0.153 33. OPSiX 3500.01 H 122 340 6.46 1/40 15.37 21.61 0.163 33. OPSiX 3500.01 H 122 340 6.46 1/40 15.37 21.61 0.148 33. OPSiX 3500.01 H 122 340 6.46 1/33 15.6	Ł	π/2 BPSK	3514.98	Н	122	340	6.46	1 / 47	15.41	21.87	0.154	33.01	-11.14
PFSK 3500.01 H 122 340 6.46 1/47 15.24 21.70 0.148 33. OPSK 3514.98 H 122 340 6.46 1/47 15.24 21.70 0.148 33. T2 BPSK 3800.01 H 122 340 6.46 1/47 15.24 21.70 0.148 33. T2 BPSK 3800.01 H 122 340 6.46 1/40 15.42 21.88 0.154 33. T2 BPSK 390.99 H 122 340 6.46 1/40 15.12 21.68 0.147 33. OPSK 350.001 H 122 340 6.46 1/40 15.12 21.61 0.148 33. T2 BPSK 350.001 H 122 340 6.46 1/40 15.12 21.67 0.148 33. T2 BPSK 350.001 H 122 340 6.46 <th1 33<="" th=""> 15.61 21.81<td>Σ</td><td>QPSK</td><td>3485.01</td><td>Н</td><td>122</td><td>340</td><td>6.46</td><td>1 / 47</td><td>15.23</td><td>21.69</td><td>0.148</td><td>33.01</td><td>-11.32</td></th1>	Σ	QPSK	3485.01	Н	122	340	6.46	1 / 47	15.23	21.69	0.148	33.01	-11.32
PFK 3514.98 H 122 340 6.46 1/47 15.24 21.70 0.148 33. T6-CAM 3500.01 H 122 340 6.46 1/47 14.24 20.70 0.118 33. T2 BPSK 3600.01 H 122 340 6.46 1/40 15.35 21.81 0.152 33. T2 BPSK 3980.00 H 122 340 6.46 1/40 15.15 21.61 0.145 33. 33. OPSK 3980.00 H 122 340 6.46 1/40 15.15 21.61 0.146 33. T2 BPSK 3919.99 H 122 340 6.46 1/40 15.17 21.48 0.148 33. T2 BPSK 3955.00 H 122 340 6.46 1/33 15.41 21.87 0.148 33. T2 BPSK 3950.01 H 122 340 6.46 1/33 15.62 </th <td>22</td> <td>QPSK</td> <td>3500.01</td> <td>Н</td> <td>122</td> <td>340</td> <td>6.46</td> <td>1 / 47</td> <td>15.24</td> <td>21.70</td> <td>0.148</td> <td>33.01</td> <td>-11.31</td>	22	QPSK	3500.01	Н	122	340	6.46	1 / 47	15.24	21.70	0.148	33.01	-11.31
House House <th< th=""><td>i .</td><td>QPSK</td><td>3514.98</td><td>н</td><td>122</td><td>340</td><td>6.46</td><td>1/47</td><td>15.24</td><td>21.70</td><td>0.148</td><td>33.01</td><td>-11.31</td></th<>	i .	QPSK	3514.98	н	122	340	6.46	1/47	15.24	21.70	0.148	33.01	-11.31
HZ BPSK 360000 H 122 340 6.46 1/40 15.35 21.81 0.152 33. MZ BPSK 3500.01 H 122 340 6.46 1/40 15.37 21.83 0.153 33. OPSK 3900.01 H 122 340 6.46 1/40 15.52 21.81 0.1163 33. OPSK 3900.01 H 122 340 6.46 1/40 15.22 21.68 0.1147 33. OPSK 3519.99 H 122 340 6.46 1/40 15.22 21.61 0.146 33. OPSK 3500.01 H 122 340 6.46 1/33 15.25 21.71 0.147 33. T/2 BPSK 3525.00 H 122 340 6.46 1/33 15.21 21.67 0.147 33. OPSK 3525.00 H 122 340 6.46 1/38 <th< th=""><td>·</td><td>16-QAM</td><td>3500.01</td><td>н</td><td>122</td><td>340</td><td>6.46</td><td>1/4/</td><td>14.24</td><td>20.70</td><td>0.118</td><td>33.01</td><td>-12.31</td></th<>	·	16-QAM	3500.01	н	122	340	6.46	1/4/	14.24	20.70	0.118	33.01	-12.31
H Disc. Disc. <thdisc.< th=""> Disc. Disc</thdisc.<>	i -	π/2 BPSK	3500.01	н	122	340	6.46	1/40	15.35	21.01	0.152	33.01	-11.20
Product CPSK 3480.00 H 122 340 6.46 1/40 15.15 21.61 0.145 33. CPSK 3500.01 H 122 340 6.46 1/40 15.18 21.64 0.146 33. CPSK 3500.01 H 122 340 6.46 1/40 13.27 20.43 0.111 33. T/2 BPSK 3500.01 H 122 340 6.46 1/40 13.27 20.43 0.114 33. T/2 BPSK 3500.01 H 122 340 6.46 1/33 15.25 21.71 0.148 33. T/2 BPSK 3500.01 H 122 340 6.46 1/33 15.05 21.51 0.142 33. OPSK 3500.01 H 122 340 6.46 1/33 15.05 21.61 0.145 33. If-CAMM 3500.01 H 122 340 6.46 1/28 15.1	⊵	π/2 BPSK	3519.99	н	122	340	6.46	1/40	15.37	21.83	0.153	33.01	-11.18
B OPSK 3500.01 H 122 340 6.46 1/40 15.22 21.68 0.147 33. ME OPSK 3519.99 H 122 340 6.46 1/40 15.18 21.64 0.146 33. ME Set 3475.02 H 122 340 6.46 1/133 15.25 21.71 0.148 33. M2 BPSK 3525.00 H 122 340 6.46 1/133 15.35 21.81 0.152 33. OPSK 3525.00 H 122 340 6.46 1/133 15.15 21.61 0.142 33. OPSK 350.01 H 122 340 6.46 1/133 15.15 21.61 0.142 33. M2 BPSK 350.01 H 122 340 6.46 1/28 15.15 21.61 0.142 33. M2 BPSK 350.01 H 122 340 6.46 <t< th=""><td>. ₹</td><td>QPSK</td><td>3480.00</td><td>Н</td><td>122</td><td>340</td><td>6.46</td><td>1 / 40</td><td>15.15</td><td>21.61</td><td>0.145</td><td>33.01</td><td>-11.40</td></t<>	. ₹	QPSK	3480.00	Н	122	340	6.46	1 / 40	15.15	21.61	0.145	33.01	-11.40
PFK 3519.99 H 122 340 6.46 1/40 15.18 21.64 0.146 33. Incomment 3500.01 H 122 340 6.46 1/40 13.97 20.43 0.111 33. Incomment 3600.01 H 122 340 6.46 1/130 15.25 21.71 0.148 33. Incomment Mark BPSK 3500.01 H 122 340 6.46 1/133 15.35 21.81 0.152 33. OPSK 3500.01 H 122 340 6.46 1/133 15.55 21.61 0.142 33. OPSK 3500.01 H 122 340 6.46 1/133 15.55 21.61 0.144 33. In2 PSK 3500.01 H 122 340 6.46 1/26 15.16 21.62 0.145 33. In2 PSK 3500.01 H 122 340 6.46 1/26	60	QPSK	3500.01	н	122	340	6.46	1 / 40	15.22	21.68	0.147	33.01	-11.33
Here Here <th< th=""><td>l i</td><td>QPSK</td><td>3519.99</td><td>Н</td><td>122</td><td>340</td><td>6.46</td><td>1 / 40</td><td>15.18</td><td>21.64</td><td>0.146</td><td>33.01</td><td>-11.37</td></th<>	l i	QPSK	3519.99	Н	122	340	6.46	1 / 40	15.18	21.64	0.146	33.01	-11.37
PH m2 BPSK 3475.02 H 122 340 6.46 1/33 15.25 21.71 0.148 33. m2 BPSK 3500.01 H 122 340 6.46 1/33 15.45 21.87 0.154 33. m2 BPSK 3555.00 H 122 340 6.46 1/33 15.35 21.81 0.152 33. QPSK 3500.01 H 122 340 6.46 1/33 15.15 21.61 0.142 33. QPSK 3525.00 H 122 340 6.46 1/33 15.15 21.61 0.145 33. m2 BPSK 3500.01 H 122 340 6.46 1/33 15.15 21.64 0.146 33. m2 BPSK 3500.01 H 122 340 6.46 1/26 15.16 21.64 0.147 33. QPSK 3500.01 H 122 340 6.46 1/26 15.10 <td></td> <td>16-QAM</td> <td>3500.01</td> <td>Н</td> <td>122</td> <td>340</td> <td>6.46</td> <td>1 / 40</td> <td>13.97</td> <td>20.43</td> <td>0.111</td> <td>33.01</td> <td>-12.58</td>		16-QAM	3500.01	Н	122	340	6.46	1 / 40	13.97	20.43	0.111	33.01	-12.58
HO Tr2 BPSK 3300.01 H 122 340 6.46 1/33 15.41 21.87 0.154 333 CPSK 3475.02 H 122 340 6.46 1/33 15.55 21.81 0.152 333 OPSK 3375.02 H 122 340 6.46 1/33 15.61 21.67 0.147 333 OPSK 3350.01 H 122 340 6.46 1/33 15.21 21.67 0.147 333 OPSK 3350.01 H 122 340 6.46 1/33 13.86 20.42 0.110 333 m/2 BPSK 3470.01 H 122 340 6.46 1/26 15.16 21.62 0.145 333 m/2 BPSK 350.01 H 122 340 6.46 1/26 15.16 21.64 0.144 333 m/2 BPSK 350.01 H 122 340 6.46 1/53 1333		π/2 BPSK	3475.02	Н	122	340	6.46	1/33	15.25	21.71	0.148	33.01	-11.30
Here The Desk 3525.00 H 122 340 6.46 1/.33 15.35 21.81 0.182 333 OPSK 3475.02 H 122 340 6.46 1/.33 15.55 21.81 0.182 333 OPSK 3550.01 H 122 340 6.46 1/.33 15.52 21.67 0.147 333 IB-OAM 3500.01 H 122 340 6.46 1/.33 15.52 21.61 0.145 333 II-2BPSK 3520.00 H 122 340 6.46 1/.26 15.16 21.62 0.146 333 II-2BPSK 350.01 H 122 340 6.46 1/.26 15.16 21.62 0.146 333 OPSK 352.99.8 H 122 340 6.46 1/.26 15.10 21.46 0.143 333 OPSK 352.99.8 H 122 340 6.46 1/.25 <th< th=""><td>N</td><td>π/2 BPSK</td><td>3500.01</td><td>н</td><td>122</td><td>340</td><td>6.46</td><td>1/33</td><td>15.41</td><td>21.87</td><td>0.154</td><td>33.01</td><td>-11.14</td></th<>	N	π/2 BPSK	3500.01	н	122	340	6.46	1/33	15.41	21.87	0.154	33.01	-11.14
Product CarSk 3340.00 H 122 340 6.46 17.33 13.03 21.51 0.142 33. OPSK 3360.01 H 122 340 6.46 17.33 15.21 21.67 0.147 33. OPSK 3360.01 H 122 340 6.46 17.33 15.15 21.61 0.147 33. In2DPSK 3470.01 H 122 340 6.46 17.26 15.16 21.62 0.145 33. m72BPSK 3500.01 H 122 340 6.46 17.26 15.16 21.62 0.145 33. m72BPSK 3500.01 H 122 340 6.46 17.26 15.10 21.66 0.147 33. QPSK 3500.01 H 122 340 6.46 17.26 15.10 21.66 0.143 33. QPSK 3500.01 H 122 340 6.46 17.26 1	HP I	TT/2 BPSK	3525.00	н	122	340	6.46	1/33	15.35	21.81	0.152	33.01	-11.20
H D30 D40 D41 D41 <thd41< th=""> <thd31< th=""> <thd31< th=""></thd31<></thd31<></thd41<>	- E 02	OPSK	3500.01	н	122	340	6.46	1/33	15.05	21.01	0.142	33.01	-11.30
PI 16-QAM 3500.01 H 122 340 6.46 1/33 13.96 20.42 0.110 33. m/2 BPSK 3470.01 H 122 340 6.46 1/26 15.16 21.62 0.145 33. m/2 BPSK 3500.01 H 122 340 6.46 1/26 15.18 21.78 0.151 33. m/2 BPSK 3529.98 H 122 340 6.46 1/26 15.10 21.66 0.147 33. QPSK 3529.98 H 122 340 6.46 1/26 15.10 21.56 0.143 33. QPSK 3529.98 H 122 340 6.46 1/93 15.20 21.66 0.147 33. m/2 BPSK 3465.00 H 122 340 6.46 1/19 15.26 21.72 0.149 33. m/2 BPSK 350.01 H 122 340 6.46 1/19 15.	~	QPSK	3525.00	н	122	340	6.46	1/33	15.15	21.61	0.145	33.01	-11.40
PIO TT/2 BPSK 3470.01 H 122 340 6.46 1/26 15.16 21.62 0.145 33. TT/2 BPSK 3500.01 H 122 340 6.46 1/26 15.32 21.78 0.151 33. TT/2 BPSK 3529.98 H 122 340 6.46 1/26 15.18 21.66 0.147 33. QPSK 3400.01 H 122 340 6.46 1/26 15.10 21.66 0.147 33. QPSK 3529.98 H 122 340 6.46 1/26 15.05 21.51 0.142 33. GPSK 3500.01 H 122 340 6.46 1/19 15.26 21.72 0.149 33. TT/2 BPSK 3500.01 H 122 340 6.46 1/19 15.26 21.72 0.140 33. TT/2 BPSK 350.01 H 122 340 6.46 1/19 <td< th=""><td>i i</td><td>16-QAM</td><td>3500.01</td><td>Н</td><td>122</td><td>340</td><td>6.46</td><td>1/33</td><td>13.96</td><td>20.42</td><td>0.110</td><td>33.01</td><td>-12.59</td></td<>	i i	16-QAM	3500.01	Н	122	340	6.46	1/33	13.96	20.42	0.110	33.01	-12.59
PIO TT/2 BPSK 3500.01 H 122 340 6.46 1/26 15.32 21.78 0.151 33. TT/2 BPSK 3529.98 H 122 340 6.46 1/26 15.18 21.64 0.146 33. GPSK 3470.01 H 122 340 6.46 1/26 15.10 21.66 0.147 33. GPSK 3529.98 H 122 340 6.46 1/26 15.05 21.51 0.142 33. 16-QAM 3470.01 H 122 340 6.46 1/33 13.93 20.39 0.110 33. TT/2 BPSK 3560.01 H 122 340 6.46 1/19 15.26 21.72 0.149 33. TT/2 BPSK 3560.01 H 122 340 6.46 1/19 15.02 21.46 0.141 33. GPSK 3500.01 H 122 340 6.46 1/19 1		π/2 BPSK	3470.01	н	122	340	6.46	1 / 26	15.16	21.62	0.145	33.01	-11.39
Yi m²/2 BPSK 3529.98 H 122 340 6.46 1/26 15.18 21.64 0.146 33. QPSK 3470.01 H 122 340 6.46 1/53 15.20 21.66 0.147 33. QPSK 350.01 H 122 340 6.46 1/26 15.10 21.66 0.143 33. QPSK 3529.98 H 122 340 6.46 1/26 15.05 21.51 0.142 33. If-OAM 3470.01 H 122 340 6.46 1/39 15.26 21.72 0.149 33. m/2 BPSK 360.01 H 122 340 6.46 1/19 15.20 21.68 0.147 33. m/2 BPSK 363.00 H 122 340 6.46 1/19 15.22 21.68 0.144 33. m/2 BPSK 360.01 H 122 340 6.46 1/19 15.11 <td>i i</td> <td>π/2 BPSK</td> <td>3500.01</td> <td>Н</td> <td>122</td> <td>340</td> <td>6.46</td> <td>1 / 26</td> <td>15.32</td> <td>21.78</td> <td>0.151</td> <td>33.01</td> <td>-11.23</td>	i i	π/2 BPSK	3500.01	Н	122	340	6.46	1 / 26	15.32	21.78	0.151	33.01	-11.23
P QPSK 3470.01 H 122 340 6.46 1/53 15.20 21.66 0.147 33. QPSK 3500.01 H 122 340 6.46 1/26 15.10 21.56 0.143 33. QPSK 3529.98 H 122 340 6.46 1/26 15.05 21.51 0.142 33. If-OAM 3470.01 H 122 340 6.46 1/39 15.26 21.72 0.149 33. m/2 BPSK 3500.01 H 122 340 6.46 1/19 15.20 21.46 0.147 33. m/2 BPSK 3500.01 H 122 340 6.46 1/19 15.20 21.46 0.140 33. QPSK 3500.01 H 122 340 6.46 1/19 15.11 21.57 0.144 33. QPSK 3500.01 H 122 340 6.46 1/19 13.78	보	π/2 BPSK	3529.98	Н	122	340	6.46	1 / 26	15.18	21.64	0.146	33.01	-11.37
Press 3300.01 H 122 340 6.46 17.26 15.10 27.56 0.143 33. OPSK 3529.98 H 122 340 6.46 17.26 15.10 27.56 0.143 33. I6-QAM 3470.01 H 122 340 6.46 17.53 13.93 20.39 0.110 33. m/2 BPSK 3465.00 H 122 340 6.46 17.39 15.26 21.72 0.149 33. m/2 BPSK 350.01 H 122 340 6.46 17.19 15.00 21.46 0.140 33. OPSK 356.00.11 H 122 340 6.46 17.19 15.03 21.46 0.140 33. OPSK 360.01 H 122 340 6.46 17.19 15.03 21.44 0.141 33. OPSK 360.01 H 122 340 6.46 17.19 14.78 21.	20	QPSK	3470.01	н	122	340	6.46	1 / 53	15.20	21.66	0.147	33.01	-11.35
Product 322.38 H 122 340 6.43 17.20 13.03 21.31 0.142 33. 16-QAM 3470.01 H 122 340 6.46 1/53 13.93 20.39 0.110 33. m/2 BPSK 3465.00 H 122 340 6.46 1/139 15.26 21.72 0.149 33. m/2 BPSK 3534.99 H 122 340 6.46 1/19 15.00 21.46 0.140 33. QPSK 3560.01 H 122 340 6.46 1/19 15.00 21.46 0.140 33. QPSK 3500.01 H 122 340 6.46 1/19 15.03 21.49 0.141 33. QPSK 3530.01 H 122 340 6.46 1/19 13.78 20.24 0.106 33. 16-QAM 3500.01 H 122 340 6.46 1/137 15.27 21.7	4	QPSK	3500.01	н	122	340	6.46	1/26	15.10	21.56	0.143	33.01	-11.45
PY Disc Disc <thdisc< th=""> Disc Di</thdisc<>		16-QAM	3470.01	н	122	340	6.46	1/53	13.03	20.39	0.142	33.01	-12.62
YE m/2 BPSK 3500.01 H 122 340 6.46 1/19 15.22 21.68 0.147 33. m/2 BPSK 3534.99 H 122 340 6.46 1/19 15.22 21.68 0.147 33. QPSK 3465.00 H 122 340 6.46 1/19 15.00 21.46 0.140 33. QPSK 350.01 H 122 340 6.46 1/19 15.03 21.49 0.141 33. QPSK 3534.99 H 122 340 6.46 1/19 14.78 21.24 0.133 33. If-QAM 3500.01 H 122 340 6.46 1/19 13.78 20.24 0.106 33. m/2 BPSK 360.01 H 122 340 6.46 1/13 15.15 21.61 0.143 33. m/2 BPSK 3540.00 H 122 340 6.46 1/13 14.82 <th></th> <th>π/2 BPSK</th> <th>3465.00</th> <th>Н</th> <th>122</th> <th>340</th> <th>6.46</th> <th>1/39</th> <th>15.26</th> <th>21.72</th> <th>0.149</th> <th>33.01</th> <th>-11.29</th>		π/2 BPSK	3465.00	Н	122	340	6.46	1/39	15.26	21.72	0.149	33.01	-11.29
Υ π/2 BPSK 3534.99 H 122 340 6.46 1/19 15.00 21.46 0.140 33. QPSK 3465.00 H 122 340 6.46 1/19 15.00 21.46 0.144 33. QPSK 3500.01 H 122 340 6.46 1/19 15.11 21.57 0.144 33. QPSK 3500.01 H 122 340 6.46 1/19 14.78 21.24 0.133 33. 16-0AM 3500.01 H 122 340 6.46 1/19 13.78 20.24 0.106 33. π/2 BPSK 3460.02 H 122 340 6.46 1/13 15.15 21.61 0.149 33. π/2 BPSK 3500.01 H 122 340 6.46 1/13 14.82 21.28 0.134 33. QPSK 360.02 H 122 340 6.46 1/13 14.85		π/2 BPSK	3500.01	Н	122	340	6.46	1 / 19	15.22	21.68	0.147	33.01	-11.33
Provide QPSK 3465.00 H 122 340 6.46 1/39 15.11 21.57 0.144 33. QPSK 3500.01 H 122 340 6.46 1/19 15.03 21.49 0.141 33. QPSK 3500.01 H 122 340 6.46 1/19 14.78 21.24 0.133 33. 16-QAM 3500.01 H 122 340 6.46 1/19 13.78 20.24 0.106 33. m/2 BPSK 3460.02 H 122 340 6.46 1/13 15.57 21.73 0.149 33. m/2 BPSK 3460.02 H 122 340 6.46 1/13 14.82 21.28 0.134 33. QPSK 3540.00 H 122 340 6.46 1/13 14.82 21.28 0.134 33. QPSK 3500.01 H 122 340 6.46 1/13 14.99 <td>보</td> <td>π/2 BPSK</td> <td>3534.99</td> <td>н</td> <td>122</td> <td>340</td> <td>6.46</td> <td>1 / 19</td> <td>15.00</td> <td>21.46</td> <td>0.140</td> <td>33.01</td> <td>-11.55</td>	보	π/2 BPSK	3534.99	н	122	340	6.46	1 / 19	15.00	21.46	0.140	33.01	-11.55
Υ GPSK 3500.01 H 122 340 6.46 1/19 15.03 21.49 0.141 33. QPSK 3534.99 H 122 340 6.46 1/19 14.78 21.24 0.133 33. 16-QAM 3500.01 H 122 340 6.46 1/19 14.78 21.24 0.103 33. π/2 BPSK 3460.02 H 122 340 6.46 1/13 15.27 21.73 0.149 33. π/2 BPSK 360.01 H 122 340 6.46 1/13 15.57 21.73 0.149 33. 0/2 DPSK 3460.02 H 122 340 6.46 1/13 14.82 21.28 0.134 33. 0/2 DPSK 3460.02 H 122 340 6.46 1/13 14.89 21.45 0.140 33. 0/2 DPSK 350.01 H 122 340 6.46 1/13 14.5	Σ	QPSK	3465.00	Н	122	340	6.46	1 / 39	15.11	21.57	0.144	33.01	-11.44
VPSK 3534.99 H 122 340 6.46 1/19 14.78 21.24 0.133 33. 16-QAM 3500.01 H 122 340 6.46 1/19 13.78 20.24 0.106 33. π/2 BPSK 3460.02 H 122 340 6.46 1/137 15.27 21.73 0.149 33. π/2 BPSK 3500.01 H 122 340 6.46 1/137 15.15 21.61 0.145 33. QPSK 3500.01 H 122 340 6.46 1/13 15.15 21.61 0.145 33. QPSK 3460.02 H 122 340 6.46 1/13 14.82 21.28 0.134 33. QPSK 3540.00 H 122 340 6.46 1/13 14.89 21.45 0.140 33. QPSK 3540.00 H 122 340 6.46 1/13 14.65 21.11 <td>30</td> <td>QPSK</td> <td>3500.01</td> <td>Н</td> <td>122</td> <td>340</td> <td>6.46</td> <td>1 / 19</td> <td>15.03</td> <td>21.49</td> <td>0.141</td> <td>33.01</td> <td>-11.52</td>	30	QPSK	3500.01	Н	122	340	6.46	1 / 19	15.03	21.49	0.141	33.01	-11.52
Y Tic DAM 3300.01 H 122 340 6.46 1/19 13.78 20.24 0.106 33. m/2 BPSK 3460.02 H 122 340 6.46 1/37 15.27 21.73 0.149 33. m/2 BPSK 3500.01 H 122 340 6.46 1/37 15.27 21.73 0.149 33. m/2 BPSK 3500.01 H 122 340 6.46 1/13 15.15 21.61 0.145 33. QPSK 3540.00 H 122 340 6.46 1/13 14.82 21.28 0.143 33. QPSK 3500.01 H 122 340 6.46 1/13 14.99 21.45 0.140 33. QPSK 3540.00 H 122 340 6.46 1/13 14.65 21.11 0.129 33. m/2 BPSK 3460.02 H 122 340	l .	QPSK	3534.99	н	122	340	6.46	1 / 19	14.78	21.24	0.133	33.01	-11.77
PE III2 BFSK 3460.02 H 122 340 6.46 1/37 15.27 21.73 0.143 33. m/2 BPSK 3500.01 H 122 340 6.46 1/13 15.15 21.61 0.143 33. m/2 BPSK 3500.01 H 122 340 6.46 1/13 14.82 21.28 0.134 33. QPSK 3460.02 H 122 340 6.46 1/13 14.82 21.28 0.134 33. QPSK 3500.01 H 122 340 6.46 1/13 14.82 21.28 0.143 33. QPSK 3500.01 H 122 340 6.46 1/13 14.95 21.45 0.140 33. QPSK 3540.00 H 122 340 6.46 1/13 14.95 21.41 0.129 33. If6-QAM 3460.02 H 122 340 6.46 1/28 15.17 <td>·</td> <td>16-QAM</td> <td>3500.01</td> <td>н</td> <td>122</td> <td>340</td> <td>6.46</td> <td>1/19</td> <td>13.78</td> <td>20.24</td> <td>0.106</td> <td>33.01</td> <td>-12.77</td>	·	16-QAM	3500.01	н	122	340	6.46	1/19	13.78	20.24	0.106	33.01	-12.77
H Discovery Discovery <thdiscovery< th=""> <thdiscover< th=""><td></td><td>T/2 BPSK</td><td>3400.02</td><td>п</td><td>122</td><td>340</td><td>6.46</td><td>1/3/</td><td>15.27</td><td>21.73</td><td>0.149</td><td>33.01</td><td>-11.20</td></thdiscover<></thdiscovery<>		T/2 BPSK	3400.02	п	122	340	6.46	1/3/	15.27	21.73	0.149	33.01	-11.20
PSK 3460.02 H 122 340 6.46 1/37 15.09 21.55 0.143 33. QPSK 3500.01 H 122 340 6.46 1/13 14.99 21.45 0.140 33. QPSK 3500.01 H 122 340 6.46 1/13 14.99 21.45 0.140 33. QPSK 3500.01 H 122 340 6.46 1/13 14.99 21.45 0.140 33. 16-QAM 3460.02 H 122 340 6.46 1/13 14.99 21.45 0.140 33. 16-QAM 3460.02 H 122 340 6.46 1/37 13.75 20.21 0.105 33. 17/2 BPSK 3500.01 H 122 340 6.46 1/19 15.17 21.63 0.146 33. 0PSK 3500.01 H 122 340 6.46 1/19 14.81 21.27	보	π/2 BPSK	3540.00	н	122	340	6.46	1/13	14.82	21.28	0.134	33.01	-11.73
QPSK 3500.01 H 122 340 6.46 1/13 14.99 21.45 0.140 33. QPSK 3340.00 H 122 340 6.46 1/13 14.99 21.45 0.140 33. 16-QAM 346.002 H 122 340 6.46 1/13 14.99 21.45 0.140 33. 16-QAM 3460.02 H 122 340 6.46 1/137 13.75 20.21 0.105 33. m/2 BPSK 3457.50 H 122 340 6.46 1/19 15.17 21.63 0.146 33. m/2 BPSK 3502.01 H 122 340 6.46 1/19 15.17 21.63 0.146 33. m/2 BPSK 3562.49 H 122 340 6.46 1/19 14.81 21.27 0.134 33. QPSK 3500.01 H 122 340 6.46 1/19 14.85 21.4	Σ	QPSK	3460.02	Н	122	340	6.46	1/37	15.09	21.55	0.143	33.01	-11.46
YE OPSK 3360.00 H 122 340 6.46 1/13 14.65 21.11 0.129 33. 16-QAM 3460.02 H 122 340 6.46 1/37 13.75 20.21 0.105 33. π/2 BPSK 3467.50 H 122 340 6.46 1/28 15.17 21.63 0.146 33. π/2 BPSK 350.01 H 122 340 6.46 1/19 15.17 21.63 0.146 33. π/2 BPSK 350.01 H 122 340 6.46 1/19 14.81 21.27 0.134 33. QPSK 3542.49 H 122 340 6.46 1/19 14.81 21.27 0.134 33. QPSK 3457.50 H 122 340 6.46 1/19 14.95 21.41 0.139 33. QPSK 350.01 H 122 340 6.46 1/19 14.95	20	QPSK	3500.01	Н	122	340	6.46	1 / 13	14.99	21.45	0.140	33.01	-11.56
16-OAM 3460.02 H 122 340 6.46 1/37 13.75 20.21 0.105 33. π/2 BPSK 3457.50 H 122 340 6.46 1/28 15.17 21.63 0.146 33. π/2 BPSK 3500.01 H 122 340 6.46 1/19 15.17 21.63 0.146 33. π/2 BPSK 3542.49 H 122 340 6.46 1/19 14.81 21.27 0.134 33. QPSK 3457.50 H 122 340 6.46 1/28 14.95 21.41 0.139 33. QPSK 3457.50 H 122 340 6.46 1/18 14.95 21.41 0.139 33. QPSK 3500.01 H 122 340 6.46 1/19 14.95 21.41 0.139 33. QPSK 3542.49 H 122 340 6.46 1/19 14.63 21.09<	i l	QPSK	3540.00	Н	122	340	6.46	1 / 13	14.65	21.11	0.129	33.01	-11.90
M2 BPSK 3457.50 H 122 340 6.46 1/28 15.17 21.63 0.146 33. m/2 BPSK 3500.01 H 122 340 6.46 1/19 15.17 21.63 0.146 33. m/2 BPSK 350.01 H 122 340 6.46 1/19 14.81 21.27 0.134 33. m/2 BPSK 3542.49 H 122 340 6.46 1/19 14.81 21.27 0.134 33. QPSK 3547.50 H 122 340 6.46 1/128 14.95 21.41 0.139 33. QPSK 3500.01 H 122 340 6.46 1/19 14.63 21.09 0.129 33. QPSK 3542.49 H 122 340 6.46 1/19 14.63 21.09 0.129 33.		16-QAM	3460.02	н	122	340	6.46	1 / 37	13.75	20.21	0.105	33.01	-12.80
Tri2 BFsk 3300.01 H 122 340 6.46 1/19 15.17 21.63 0.146 33. Tri2 BFsk 3542.49 H 122 340 6.46 1/9 14.81 21.27 0.134 33. QPSK 3542.59 H 122 340 6.46 1/9 14.81 21.27 0.134 33. QPSK 3542.50 H 122 340 6.46 1/28 14.95 21.41 0.139 33. QPSK 3500.01 H 122 340 6.46 1/19 14.95 21.41 0.139 33. QPSK 3502.01 H 122 340 6.46 1/19 14.63 21.09 0.129 33. QPSK 3542.49 H 122 340 6.46 1/9 14.63 21.09 0.129 33.	l .	π/2 BPSK	3457.50	н	122	340	6.46	1/28	15.17	21.63	0.146	33.01	-11.38
E III2 BFSK 3342.49 H I22 340 6.46 I/19 I4.61 21.27 0.134 33. QPSK 3457.50 H 122 340 6.46 1/28 14.95 21.41 0.139 33. QPSK 3457.50 H 122 340 6.46 1/28 14.95 21.41 0.139 33. QPSK 3500.01 H 122 340 6.46 1/19 14.95 21.42 0.139 33. QPSK 3542.49 H 122 340 6.46 1/19 14.63 21.09 0.129 33.	N	π/2 BPSK	3500.01	н	122	340	6.46	1/19	15.17	21.63	0.146	33.01	-11.38
QPSK 350.01 H 122 340 6.46 1/19 14.65 21.42 0.139 33. QPSK 3542.49 H 122 340 6.46 1/19 14.63 21.09 0.129 33.	HW	OPSK	3457 50	н	122	340	6.46	1/9	14.81	21.27	0.134	33.01	-11.74
OPSK 3542.49 H 122 340 6.46 1 / 9 14.63 21.09 0.129 33.	15	OPSK	3500.01	н	122	340	6.46	1/19	14.96	21.42	0.139	33.01	-11.59
		QPSK	3542.49	Н	122	340	6.46	1/9	14.63	21.09	0.129	33.01	-11.92
16-QAM 3500.01 H 122 340 6.46 1/19 13.61 20.07 0.102 33.0		16-QAM	3500.01	н	122	340	6.46	1 / 19	13.61	20.07	0.102	33.01	-12.94
π/2 BPSK 3455.01 H 122 340 6.46 1 / 12 15.04 21.50 0.141 33.		π/2 BPSK	3455.01	Н	122	340	6.46	1 / 12	15.04	21.50	0.141	33.01	-11.51
π/2 BPSK 3500.01 H 122 340 6.46 1 / 12 15.15 21.61 0.145 33.0		π/2 BPSK	3500.01	Н	122	340	6.46	1 / 12	15.15	21.61	0.145	33.01	-11.40
T/2 BPSK 3544.98 H 122 340 6.46 1/6 14.83 21.29 0.135 33.	Ĩ	π/2 BPSK	3544.98	Н	122	340	6.46	1/6	14.83	21.29	0.135	33.01	-11.72
QPSK 3455.01 H 122 340 6.46 1/6 14.87 21.33 0.136 33.	2	QPSK	3455.01	Н	122	340	6.46	1/6	14.87	21.33	0.136	33.01	-11.68
GP-SK 3500.01 H 122 340 6.46 1/12 15.03 21.49 0.141 33.	Ť.	QPSK	3500.01	н	122	340	6.46	1/12	15.03	21.49	0.141	33.01	-11.52
ur or. 3044.90 m 122 340 6.46 1/6 14.67 21.13 0.130 333. 16.00M 3500.01 H 122 340 6.46 1/12 12.60 20.45 30 404 20.		16-DAM	3500.01	н	122	340	6.46	1/0	13.60	21.13	0.130	33.01	-11.88
QPSK (CP-0FDM) 3500.0 H 120 341 6.46 1/204 13.07 19.53 0.09 33		QPSK (CP-OFDM)	3500.01	н	120	340	6,46	1/204	13.07	19,53	0.090	33.01	-13.48
100 MHZ QPSK (WCP) 3500.0 H 176 340 6.46 1/136 15.00 21.46 0.140 33.	100 MHz	QPSK (WCP)	3500.0	н	176	340	6.46	1 / 136	15.00	21.46	0.140	33.01	-11.55

Table 7-16. EIRP Data (NR Band n77 (DoD) – Ant F)

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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]
MF	π/2 BPSK	3500.01	Н	101	44	6.46	1/1	14.12	20.58	0.114	33.01	-12.43
8	QPSK	3500.01	Н	101	44	6.46	1/1	13.63	20.09	0.102	33.01	-12.92
7	16-QAM	3500.01	Н	101	44	6.46	1/1	10.43	16.89	0.049	33.01	-16.12
100 MHz	QPSK (CP-OFDM)	3500.0	Н	101	44	6.46	1/1	8.83	15.29	0.034	33.01	-17.72

Table 7-17. EIRP Data (NR Band n77 (DoD) – Ant C)

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]
MF	π/2 BPSK	3500.01	Н	196	320	6.46	1 / 136	15.41	21.87	0.154	33.01	-11.14
8	QPSK	3500.01	Н	196	320	6.46	1 / 136	16.17	22.63	0.183	33.01	-10.38
7	16-QAM	3500.01	Н	196	320	6.46	1 / 136	13.15	19.61	0.092	33.01	-13.40
100 MHz	QPSK (CP-OFDM)	3500.0	Н	196	320	6.46	1/136	12.18	18.64	0.073	33.01	-14.37

Table 7-18. EIRP Data (NR Band n77 (DoD) - Ant I)

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]
Ψ	π/2 BPSK	3500.01	Н	110	8	6.46	1 / 136	10.64	17.10	0.051	33.01	-15.91
8	QPSK	3500.01	Н	110	8	6.46	1 / 136	11.40	17.86	0.061	33.01	-15.15
7	16-QAM	3500.01	Н	110	8	6.46	1 / 136	9.21	15.67	0.037	33.01	-17.34
100 MHz	QPSK (CP-OFDM)	3500.0	Н	110	8	6.46	1 / 136	7.61	14.07	0.026	33.01	-18.94

Table 7-19. EIRP Data (NR Band n77 (DoD) – Ant D)

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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 \ge 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

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



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:
 - a) $E(dB\mu V/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m) b) EIRP (dBm) = E(dB\mu V/m) + 20logD 104.8; where D is the measurement distance in meters.$
- 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.

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NR Band n77 – Ant F



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Plot 7-116. Radiated Spurious Plot (NR Band n77 – Ant F)

100
3930.00
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Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
783.00	Н	-	-	-96.96	29.78	39.82	-55.44	-13.00	-42.44

Table 7-20. Radiated Spurious Data (NR Band n77 - Below 1GHz - Ant F)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.00	Н	158	346	-73.98	9.72	42.74	-52.52	-13.00	-39.52
11250.00	Н	127	341	-70.77	12.07	48.30	-46.96	-13.00	-33.96
15000.00	Н	317	47	-72.22	14.86	49.64	-45.61	-13.00	-32.61
18750.00	Н	-	-	-65.15	1.87	43.72	-61.08	-13.00	-48.08
22500.00	Н	-	-	-66.78	3.97	44.19	-60.61	-13.00	-47.61
26250.00	Н	-	-	-66.48	4.35	44.86	-59.94	-13.00	-46.94
30000.00	Н	-	-	-67.43	6.18	45.75	-59.05	-13.00	-46.05
33750.00	Н	-	-	-67.48	7.89	47.41	-57.39	-13.00	-44.39

Table 7-21. Radiated Spurious Data (NR Band n77 – Low Channel – Ant F)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.00	Н	293	306	-71.39	8.49	44.10	-51.16	-13.00	-38.16
11520.00	Н	270	8	-68.62	12.59	50.97	-44.29	-13.00	-31.29
15360.00	Н	133	317	-71.72	14.87	50.15	-45.11	-13.00	-32.11
19200.00	Н	-	-	-66.14	2.25	43.12	-61.68	-13.00	-48.68
23040.00	Н	-	-	-66.77	3.99	44.21	-60.59	-13.00	-47.59
26880.00	Н	-	-	-67.27	4.75	44.48	-60.32	-13.00	-47.32
30720.00	Н	-	-	-67.08	6.80	46.72	-58.08	-13.00	-45.08
34560.00	Н	-	-	-66.48	7.79	48.31	-56.49	-13.00	-43.49

Table 7-22. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant F)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	Н	178	315	-69.13	8.96	46.83	-48.43	-13.00	-35.43
11790.00	Н	275	3	-66.96	13.13	53.17	-42.09	-13.00	-29.09
15720.00	Н	111	352	-64.60	15.19	57.59	-37.67	-13.00	-24.67
19650.00	Н	-	-	-66.33	2.78	43.45	-61.35	-13.00	-48.35
23580.00	Н	-	-	-66.73	4.00	44.27	-60.53	-13.00	-47.53
27510.00	Н	-	-	-66.71	4.62	44.91	-59.89	-13.00	-46.89
31440.00	Н	-	-	-67.26	6.99	46.73	-58.07	-13.00	-45.07
35370.00	Н	-	-	-67.03	8.89	48.87	-55.93	-13.00	-42.93

Table 7-23. Radiated Spurious Data (NR Band n77 – High Channel – Ant F)

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1 / 136
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	Н	259	96	-71.80	8.96	44.16	-51.10	-13.00	-38.10
11790.00	Н	110	81	-74.61	13.13	45.52	-49.74	-13.00	-36.74
15720.00	Н	121	347	-67.44	15.19	54.75	-40.51	-13.00	-27.51
19650.00	Н	-	-	-66.72	2.78	43.06	-61.74	-13.00	-48.74
23580.00	Н	-	-	-67.43	4.00	43.58	-61.22	-13.00	-48.22
27510.00	Н	-	-	-66.23	4.62	45.39	-59.41	-13.00	-46.41
31440.00	Н	-	-	-67.58	6.99	46.42	-58.38	-13.00	-45.38
35370.00	Н	-	-	-67.66	8.89	48.24	-56.56	-13.00	-43.56

Table 7-24. Radiated Spurious Data with WCP (NR Band n77 – Ant F)

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NR Band n77 – Ant C



Plot 7-119. Radiated Spurious Plot (NR Band n77 – Ant C)

FCC ID: A3LSMS711B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 120		
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Plot 7-120. Radiated Spurious Plot (NR Band n77 – Ant C)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
538.00	Н	-	-	-67.18	-3.49	36.33	-58.93	-13.00	-45.93

Table 7-25. Radiated Spurious Data (NR Band n77 – Below 1GHz – Ant C)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.00	Н	-	-	-74.74	15.93	48.19	-47.07	-13.00	-34.07
11250.00	Н	-	-	-76.17	21.35	52.18	-43.07	-13.00	-30.07
15000.00	Н	149.00	55.00	-69.45	26.20	63.75	-31.51	-13.00	-18.51
18750.00	Н	-	-	-58.67	1.87	50.20	-54.60	-13.00	-41.60
22500.00	Н	-	-	-58.47	3.97	52.50	-52.30	-13.00	-39.30
26250.00	Н	-	-	-59.09	4.35	52.26	-52.54	-13.00	-39.54

Table 7-26. Radiated Spurious Data (NR Band n77 – Low Channel – Ant C)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dogo 110 of 120
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Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1/136
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.00	Н	100.00	21.00	-73.16	15.91	49.75	-45.51	-13.00	-32.51
11520.00	Н	-	-	-76.28	22.28	53.00	-42.26	-13.00	-29.26
15360.00	Н	125.00	324.00	-65.57	27.28	68.71	-26.54	-13.00	-13.54
19200.00	Н	-	-	-58.77	2.25	50.49	-54.31	-13.00	-41.31
23040.00	Н	-	-	-57.54	3.99	53.45	-51.35	-13.00	-38.35
26880.00	Н	-	-	-59.77	4.75	51.98	-52.82	-13.00	-39.82

Table 7-27. Radiated Spurious Data (NR Band n77 – Mid Channel – Ant C)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	Н	-	-	-74.46	15.90	48.44	-46.82	-13.00	-33.82
11790.00	Н	-	-	-75.45	21.45	53.00	-42.26	-13.00	-29.26
15720.00	Н	340.00	13.00	-71.64	28.22	63.58	-31.67	-13.00	-18.67
19650.00	Н	-	-	-59.39	2.78	50.39	-54.41	-13.00	-41.41
23580.00	Н	-	-	-59.21	4.00	51.79	-53.01	-13.00	-40.01
27510.00	Н	-	-	-58.55	4.62	53.07	-51.73	-13.00	-38.73

Table 7-28. Radiated Spurious Data (NR Band n77 – High Channel – Ant C)

FCC ID: A3LSMS711B		Approved by: Technical Manager	
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NR Band n77 – Ant I



FCC ID: A3LSMS711B		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dogo 112 of 120		
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Plot 7-124. Radiated Spurious Plot (NR Band n77 – Ant I)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
312.00	V	-	-	-84.75	21.50	43.75	-51.51	-13.00	-38.51

Table 7-29. Radiated Spurious Data (NR Band n77 - Below 1GHz - Ant I)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7500.00	V	-	-	-78.04	9.72	38.68	-56.58	-13.00	-43.58
11250.00	V	-	-	-79.43	12.07	39.64	-55.62	-13.00	-42.62
15000.00	V	-	-	-80.18	14.86	41.68	-53.57	-13.00	-40.57

Table 7-30. Radiated Spurious Data (NR Band n77 - Low Channel - Ant I)

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

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	-	-	-77.38	8.49	38.11	-57.15	-13.00	-44.15
11520.00	V	-	-	-80.03	12.59	39.56	-55.70	-13.00	-42.70
15360.00	V	-	-	-79.84	14.87	42.03	-53.23	-13.00	-40.23

Table 7-31. Radiated Spurious Data (NR Band n77 - Mid Channel - Ant I)

FCC ID: A3LSMS711B		PART 27 MEASUREMENT REPORT		
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Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136
Mode:	Stand Alone
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7860.00	V	-	-	-77.70	8.96	38.26	-57.00	-13.00	-44.00
11790.00	V	-	-	-80.05	13.13	40.08	-55.18	-13.00	-42.18
15720.00	V	-	-	-79.77	15.19	42.42	-52.84	-13.00	-39.84

Table 7-32. Radiated Spurious Data (NR Band n77 - High Channel - Ant I)

FCC ID: A3LSMS711B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
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