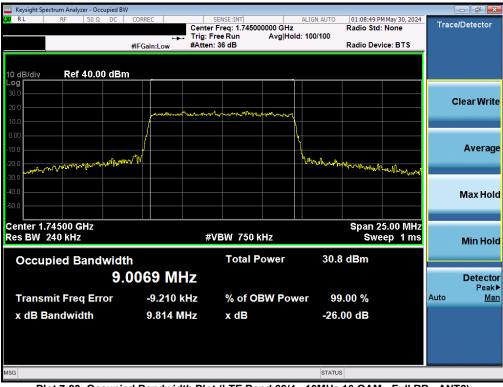


Keysight Spectrum Analyzer - Occupied BW						-	
LX/RL RF 50Ω DC	CORREC	SENSE:INT enter Freg: 1.7450000	ALIGN AUTO	01:08:42 PM Radio Std:	May 30, 2024	Trace	e/Detector
	-∍- Tr	ig: Free Run	Avg Hold: 100/100				
	#IFGain:Low #A	Atten: 36 dB		Radio Devi	ce: BTS		
10 dB/div Ref 40.00 dBm							
30.0							
20.0						C	Clear Write
10.0	pourson	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	may				
0.00							
-10.0							Average
and the second s	ma		Render Transalling				Average
Uphandel and the second				what white	Whiteman		
-30.0							
-40.0							Max Hold
-50.0							
Center 1.74500 GHz				Span 25	.00 MHz		
Res BW 240 kHz		#VBW 750 kH	IZ		ep 1 ms		Min Hold
							Wintflord
Occupied Bandwidth	n	Total Po	wer 31.8	3 dBm			
9.0	0118 MHz						Detector
							Peak▶
Transmit Freq Error	-1.772 kHz	% of OB	W Power 99	0.00 %		Auto	<u>Man</u>
x dB Bandwidth	9.789 MHz	x dB	-26.	00 dB			
MSG			STATUS	5			

Plot 7-92. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - ANT2)



Plot 7-93. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB - ANT2)

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Keysight Spectrum Analyzer - Occup							×
<mark>(X)</mark> RL RF 50 Ω	DC CORREC	SENSE:INT Center Freg: 1.74		N AUTO 01:13:21 PI Radio Std:	M May 30, 2024	Trace/Detect	or
		🛶 Trig: Free Run	Avg Hold: 100	0/100			
	#IFGain:Low	#Atten: 36 dB		Radio Dev	ice: BTS		
10 dB/div Ref 40.00	dBm						
Log 30.0							
20.0						Clear W	rite
10.0	p m	when a way and a way	aman when				
0.00						Aver	- 00
-10.0	manger			<u> </u>		Aver	age
-20.0 month and the second share				waren and the second second	Wyouwash		
-30.0							
-40.0						Max H	old
-50.0							
Center 1.745000 GHz				- Span 1	2.50 MHz		
Res BW 120 kHz		VBW 1.2	MHz		2.50 MHZ	Billion LL	
						Min H	oia
Occupied Bandw	vidth	Tota	Power	31.8 dBm			
	4.5108 N	/H7				Dete	ctor
							ak▶
Transmit Freq Erro	r -2.26	8 kHz % of	OBW Power	99.00 %		Auto	Man
x dB Bandwidth	5.005	MHz xdB		-26.00 dB			
MSG				STATUS			
MSG				STATUS			

Plot 7-94. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - ANT2)



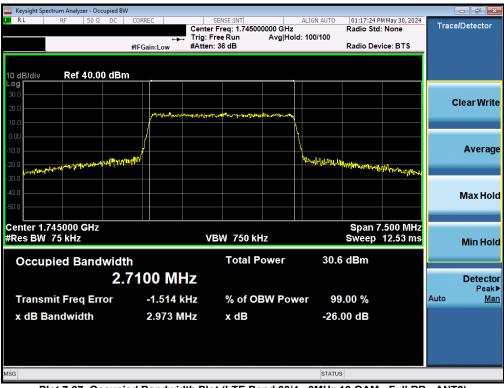
Plot 7-95. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB - ANT2)

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🔤 Keysight Spectrum Analyzer - Occupied BW							
IXI RL RF 50Ω DC	Trig:	SENSE:INT ter Freq: 1.745000000 : Free Run Av en: 36 dB	GHz g Hold: 100/100	01:17:16 P Radio Std Radio Dev		Trace/D	etector
10 dB/div Ref 40.00 dBm							
20.0	Jegennellyrtinettenterite	แหนายามากการการ	hann			Cle	ear Write
10.0 0.00 	M		han har	manne	amana ana ana ana ana ana ana ana ana an		Average
-30.0						N	lax Hol
Center 1.745000 GHz #Res BW 75 kHz		VBW 750 kHz		Sweep	.500 MHz 12.53 ms	I	Vin Hol
Occupied Bandwidth 2.6	986 MHz	Total Powe	er 31.4	l dBm			Detecto Peak
Transmit Freq Error	-2.500 kHz	% of OBW	Power 99	0.00 %		Auto	Ma
x dB Bandwidth	2.950 MHz	x dB	-26.	00 dB			
ISG			STATU	6			

Plot 7-96. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - ANT2)



Plot 7-97. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB - ANT2)

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Plot 7-98. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - ANT2)



Plot 7-99. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB - ANT2)

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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.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

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 18GHz (separated into at least two plots per channel)
- 2. RBW ≥ 100kHz
- 3. VBW \geq 3 x RBW
- 4. Detector = RMS
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

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 and RSS-139, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz.
- 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 [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 662.0	-58.47	-13	-45.47
		Low	698.0 - 1000.0	-62.23	-13	-49.23
		Low	1000.0 - 10000.0	-45.28	-13	-32.28
		Mid	30.0 - 663.0	-59.83	-13	-46.83
LTE Band 71	20 MHz	Mid	698.0 - 1000.0	-59.05	-13	-46.05
		Mid	1000.0 - 10000.0	-45.97	-13	-32.97
		High	30.0 - 663.0	-62.59	-13	-49.59
		High	699.0 - 1000.0	-57.84	-13	-44.84
		High	1000.0 - 10000.0	-47.15	-13	-34.15
		Low	30.0 - 697.9	-56.37	-13	-43.37
		Low	716.0 - 1000.0	-60.47	-13	-47.47
	10 MHz	Low	1000.0 - 10000.0	-45.23	-13	-32.23
		Mid	30.0 - 698.0	-58.06	-13	-45.06
LTE Band 12		Mid	716.0 - 1000.0	-57.36	-13	-44.36
		Mid	1000.0 - 10000.0	-45.47	-13	-32.47
		High	30.0 - 697.9	-60.03	-13	-47.03
		High	716.1 - 1000.0	-52.56	-13	-39.56
		High	1000.0 - 10000.0	-47.09	-13	-34.09
		Mid	30.0 - 777.0	-65.67	-35	-30.67
LTE Band 13	10 MHz	Mid	787.0 - 1000.0	-58.93	-13	-45.93
		Mid	1000.0 - 20000.0	-46.68	-13	-33.68

Table 7-15. Conducted Spurious Emissions Results – Ant1

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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 1705.0	-42.16	-13	-29.16
		Low	1755.0 - 10000.0	-46.72	-13	-33.72
		Low	10000.0 - 20000.0	-62.37	-13	-49.37
		Mid	30.0 - 1710.0	-53.44	-13	-40.44
WCDMA1700	N/A	Mid	1755.0 - 10000.0	-46.71	-13	-33.71
		Mid	10000.0 - 20000.0	-62.67	-13	-49.67
		High	30.0 - 1710.0	-53.65	-13	-40.65
		High	1760.0 - 10000.0	-45.74	-13	-32.74
		High	10000.0 - 20000.0	-62.23	-13	-49.23
		Low	30.0 - 663.0	-47.18	-13	-34.18
	20 MHz	Low	698.0 - 1000.0	-46.93	-13	-33.93
		Low	1000.0 - 10000.0	-42.23	-13	-29.23
		Mid	30.0 - 663.0	-53.53	-13	-40.53
LTE-B66-4		Mid	698.0 - 1000.0	-46.84	-13	-33.84
		Mid	1000.0 - 10000.0	-41.97	-13	-28.97
		High	30.0 - 663.0	-53.44	-13	-40.44
		High	698.0 - 1000.0	-45.89	-13	-32.89
		High	1000.0 - 10000.0	-42.31	-13	-29.31
		Low	30.0 - 1709.0	-44.74	-13	-31.74
		Low	1710.0 - 1780.0	12.24	-	-
		Low	1780.0 - 10000.0	-42.79	-13	-29.79
		Low	10000.0 - 20000.0	-57.97	-13	-44.97
		Mid	30.0 - 1710.0	-41.94	-13	-28.94
LTE Band		Mid	1710.0 - 1780.0	12.38	-	-
66B/C	40 MHz	Mid	1780.0 - 10000.0	-42.82	-13	-29.82
ULCA		Mid	10000.0 - 20000.0	-57.97	-13	-44.97
		High	30.0 - 1710.0	-42.92	-13	-29.92
		High	1710.0 - 1780.0	12.74	-	-
		High	1781.0 - 10000.0	-42.39	-13	-29.39
		High	10000.0 - 20000.0	-58.02	-13	-45.02

Table 7-16. Conducted Spurious Emissions Results – Ant1

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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 663.0	-54.92	-13	-41.92
		Low	698.0 - 1000.0	-63.53	-13	-50.53
		Low	1000.0 - 10000.0	-43.97	-13	-30.97
		Mid	30.0 - 663.0	-58.92	-13	-45.92
NR Band n71	20 MHz	Mid	698.0 - 1000.0	-57.28	-13	-44.28
		Mid	1000.0 - 10000.0	-44.39	-13	-31.39
		High	30.0 - 663.0	-63.40	-13	-50.40
		High	698.0 - 1000.0	-53.52	-13	-40.52
		High	1000.0 - 10000.0	-45.49	-13	-32.49
		Low	30.0 - 698.0	-56.43	-13	-43.43
		Low	716.0 - 1000.0	-56.95	-13	-43.95
		Low	1000.0 - 10000.0	-43.13	-13	-30.13
		Mid	30.0 - 698.0	-56.09	-13	-43.09
NR Band n12	15 MHz	Mid	716.0 - 1000.0	-57.01	-13	-44.01
		Mid	1000.0 - 10000.0	-43.81	-13	-30.81
		High	30.0 - 698.0	-55.94	-13	-42.94
		High	716.0 - 1000.0	-49.32	-13	-36.32
		High	1000.0 - 10000.0	-43.74	-13	-30.74
		Mid	30.0 - 1695.0	-45.69	-13	-32.69
NR Band n70	15 MHz	Mid	1710.0 - 10000.0	-43.52	-13	-30.52
		Mid	10000.0 - 20000.0	-59.22	-13	-46.22
		Low	30.0 - 1710.0	-46.91	-13	-33.91
		Low	1780.0 - 10000.0	-43.48	-13	-30.48
		Low	10000.0 - 20000.0	-59.54	-13	-46.54
		Mid	30.0 - 1710.0	-48.85	-13	-35.85
NR Band n66	40 MHz	Mid	1780.0 - 10000.0	-43.36	-13	-30.36
		Mid	10000.0 - 20000.0	-59.48	-13	-46.48
		High	30.0 - 1710.0	-49.69	-13	-36.69
		High	1780.0 - 10000.0	-43.78	-13	-30.78
		High	10000.0 - 20000.0	-59.75	-13	-46.75

Table 7-17. Conducted Spurious Emissions Results – Ant1

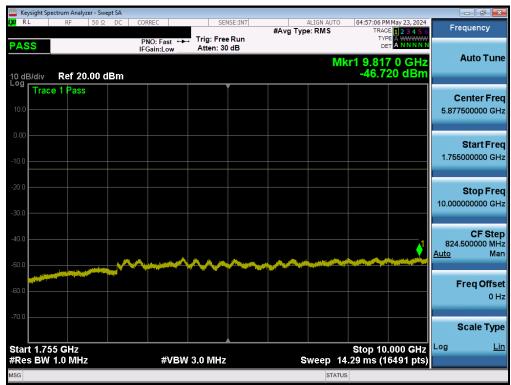
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT							
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WCDMA-AWS - ANT1

	ectrum Analyzer - S	wept SA						
XI RL	RF 50	Ω DC	CORREC	SENSE		ALIGN AUTO Type: RMS	04:56:52 PM May 23, 2024 TRACE 1 2 3 4 5	
PASS			PNO: Fast ↔ IFGain:Low	Trig: Free R Atten: 30 d	un	g Type. King		
10 dB/div	Ref 20.00	dBm				Μ	kr1 1.705 0 GHz -42.155 dBm	Auto Tune
Trac	e 1 Pass			Ĭ				Center Fred
10.0								867.500000 MHz
0.00								Start Fred
-10.0								30.000000 MH
20.0								Stop Free
-30.0								1.705000000 GH:
							1	CF Step
-40.0								167.500000 MH: <u>Auto</u> Mar
-50.0								
-60.0 נייןארייי י	neselan yang generatika		t forger er jonge verkliger han vider der forfer	and a star of the	neri de de la contra			Freq Offset 0 Ha
-70.0								Oucle T
								Scale Type
Start 0.00 #Res BM	300 GHz 1.0 MHz		#VBM	/ 3.0 MHz		Sween	Stop 1.7050 GHz 2.240 ms (3361 pts	Log <u>Lir</u>
ISG	15V 191112			A - MI 12		STATU		

Plot 7-100. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB - Low Channel)



Plot 7-101. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB - Low Channel)

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	pectrum Anal	yzer - Swep	pt SA										- # ×
L <mark>XI</mark> RL	RF	50 Ω	DC	CORREC		SEN	ISE:INT	#Avg Typ			M May 23, 2024	Fred	quency
PASS				PNO: Fas IFGain:Lo		Trig: Free Atten: 10		#10g 1)		TY D			
10 dB/div	Ref 0	.00 dB	m						Mł	(r1 19.49 -62.3	3 0 GHz 65 dBm	4	uto Tune
Log Tra	ce 1 Pas	s				, ,						Ce	enter Freq
-10.0													00000 GHz
-20.0												9	Start Fred
-30.0													00000 GHz
00.0													
-40.0												:	Stop Fred
													00000 GH
-50.0													
-60.0											1	4 0000	CF Step
	1. Sheet be a star	× -						(In the second party space of the second party second party second party second party second party second party				Auto	Mar
-70.0			Constanting of the		C. C	مردد رده کرو Children و د							
-80.0												Fr	eq Offse
-00.0													0 Hz
-90.0													
												S	cale Type
Start 10.										Stop 20	.000 GHZ	Log	Lin
#Res BV	V 1.0 MH	Z		#	VBW	3.0 MHz		8		17.33 ms (2	20001 pts)		
MSG									STAT	US			

Plot 7-102. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT							
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LTE Band 71 – ANT1

	pectrum Analy		SA										
L <mark>XI</mark> RL	RF	50 Ω	DC	CORREC		SEI	SE:INT	#Avg Typ	ALIGN AUTO		May 23, 2024	Fr	requency
PASS				PNO: Fas IFGain:Lo		Trig: Free Atten: 30		#7118 1 JP		TYF DE			
10 dB/div	Ref 20).00 dE	sm						М	kr1 662. -58.4	00 MHz 65 dBm		Auto Tune
Log Tra	ce 1 Pass	;				,						(Center Freq
10.0												346	5.000000 MHz
0.00													Start Free
-10.0												30).000000 MHz
-20.0													Stop Fred
-30.0												662	2.000000 MH:
-40.0													CF Step
												63 <u>Auto</u>	3.200000 MH: Mar
-50.0											1		
-60.0													Freq Offse 0 Hi
-70.0		a il di setta di set	l têstî binî, ne them	e la puerte									Scale Type
Start 30.	0 MHz									Ston 6	62.0 MHz		Scale Type
	V 100 kH:	z		#	VBW	300 kHz		s	weep 30	0.34 ms (1	2641 pts)		
MSG									STATU	5			

Plot 7-103. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - ANT1)

PASS PNO: Fast Trig: Free Run Atten: 30 dB #Avg Type: RMS Trace 1 28 450 Trace 1 28 450 Def View Prequency 10 dB/div Ref 20.00 dBm -62.231 dBm -62.231 dBm Center Free 849.000000 MH 000 Image: Start Free 698.000000 MH Image: Start Free 698.000000 MH Start Free 698.000000 MH Start Free 698.000000 MH 000 Image: Start 0.6980 GHz #Res BW 100 kHz Image: Start 0.6980 GHz #VBW 300 kHz Stop 1.0000 GHz Start 0.6980 GHz Image: Start 0.6980 GHz #VBW 300 kHz Stop 14.50 ms (6041 pts)	🔤 Keysight Spectrum Analyzer - Swe	pt SA				
PASS PRO Past Atten: 30 dB Det ANNNN Mkr1 698.45 MHz -62.231 dBm Mkr1 698.45 MHz -62.231 dBm Auto Tun 10 dB/div Ref 20.00 dBm Center Free 849.00000 MH Start Free 698.00000 MH 000 Image: Start Free 998.00000 MH Start Free 698.00000 MH Start Free 698.00000 MH 200 Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH Start Free 698.00000 MH 200 Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH Start Free 998.00000 MH 200 Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH 200 Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH 200 Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH 200 Image: Start Free 998.0000 MH Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH 200 Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH 200 Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH Image: Start Free 998.00000 MH <td>LX RL RF 50 Ω</td> <td>DC CORREC</td> <td></td> <td></td> <td>TRACE 1 2 3 4 5 6</td> <td>Frequency</td>	LX RL RF 50 Ω	DC CORREC			TRACE 1 2 3 4 5 6	Frequency
Log Trace 1 Pass Center Free 100 Start I	PASS	IFGain:Low		М	bet A NNNNN kr1 698.45 MHz	Auto Tune
100 Start Free 200 Stop Free 300 Stop Free 400 Stop Free 500 Stop Free <t< td=""><td>Log Trace 1 Pass</td><td></td><td></td><td></td><td></td><td>Center Freq 849.000000 MHz</td></t<>	Log Trace 1 Pass					Center Freq 849.000000 MHz
-300 -300 -40 -4	-10.0					Start Freq 698.000000 MHz
4400 560	-20.0					Stop Freq 1.000000000 GHz
600 6	-40.0					CF Step 30.200000 MH: <u>Auto</u> Mar
Start 0.6980 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 14.50 ms (6041 pts)	-60.0 1		ala na sangan sanga		genneysiaan saa ahiye aanaa daga baaraadig	Freq Offset 0 Hz
#Res BW 100 kHz #VBW 300 kHz Sweep 14.50 ms (6041 pts)	-70.0				Stop 1 0000 GHz	Scale Type
	#Res BW 100 kHz	#VBW	300 kHz	Sweep 1	4.50 ms (6041 pts)	

Plot 7-104. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - ANT1)

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	ectrum Analyz	er - Swep	ot SA										
XIRL	RF	50 Ω	DC	CORREC		SEN	NSE:INT	#Avg Typ	ALIGN AUTO		M May 23, 2024	Fr	equency
PASS				PNO: Fain:L	ast ↔ ₋ow	Trig: Free Atten: 30				TYI Di			
10 dB/div	Ref 20	.00 di	Bm						M	(r1 1.34 -45.2	6 0 GHz 81 dBm		Auto Tune
Log Trac	e 1 Pass												enter Freq 0000000 GHz
-10.0												1.000	Start Fred
-20.0												10.000	Stop Fred
-40.0						~~~	\sim	~~~				900 <u>Auto</u>	CF Step .000000 MH: Mar
-60.0												i	F req Offse 0 H:
-70.0												Log	Scale Type
Start 1.00 #Res BW	0 GHZ 1.0 MHZ			;	#VBW	3.0 MHz		s	weep 15	Stop 10 60 ms <u> (1</u>	.000 GHz 8001 pts)		
MSG									STATUS				

Plot 7-105. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT						
Test Report S/N:	Test Dates:	est Dates: EUT Type:						
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LTE Band 12 – ANT1

	ctrum Analyze	r - Swept SA								
LXI RL	RF	50Ω DC	CORREC		#Avg Typ	ALIGN AUTO e: RMS	TRAC	May 23, 2024 E 1 2 3 4 5 6 E A WWWWW	Fr	equency
PASS	Ref 20.0	00 dBm	PNO: Fast ↔ IFGain:Low	Atten: 30		М	DE kr1 697.	ANNNN		Auto Tune
10.0 Trace	e 1 Pass									Center Freq 9.950000 MHz
-10.0									30	Start Freq 0.000000 MHz
-20.0									697	Stop Freq .900000 MHz
-40.0								1	66 <u>Auto</u>	CF Step 5.790000 MHz Man
-60.0		dest-beet on the sure of	Prest for younge where I was been been and provide		na de la constante de la const	in an				Freq Offsel 0 Hz
-70.0		and climber of the large ar	y na kan ng danang di Cy yan dan sa Kalu (i dan ka							Scale Type Lin
Start 30.0 #Res BW			#VB\	N 300 kHz	s	weep 32	8 Stop 2.06 ms 1	97.9 MHz 3361 pts)	Log	
MSG						STATUS	5			

Plot 7-106. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

	ectrum Analyzer	- Swept SA									
LXI RL	RF 5	50 Ω DC	CORREC		ISE:INT	#Avg Typ	ALIGN AUTO	TRAC	May 23, 2024	Fre	equency
PASS			PNO: Fast ↔ IFGain:Low	. Trig: Free Atten: 30				TYP			Auto Tune
10 dB/div Log	Ref 20.0	0 dBm					M	kr1 716. -60.4	35 MHZ 68 dBm		Auto Tune
Trac	e 1 Pass									С	enter Freq
10.0										858.	000000 MHz
0.00											
-10.0										716.	Start Freq 000000 MHz
-10.0											
-20.0											Stop Freq
-30.0										1.000	000000 GHz
											CF Step
-40.0										28. Auto	400000 MHz Man
-50.0											
-60.0										F	req Offset
Lune	والمراجع والمحافظ وال	and the second second second	*****		n angenta setainte	هولي استنجو والارتباع	and an and the second	والدام والمتراجع والم	en jed strategie stategie		0 Hz
-70.0										:	Scale Type
Start 0.71	60 GHz							Stop 1.0	000 GHz	Log	Lin
#Res BW			#VBW	/ 300 kHz			Sweep 1	3.63 ms (5681 pts)		
MSG							STATU	6			

Plot 7-107. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT				
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	ctrum Analyzei		SA										
LXU RL	RF	50 Ω	DC	CORREC		SEI	ISE:INT	#Avg Typ	ALIGN AUTO		M May 23, 2024	Fr	equency
PASS				PNO: Fa		Trig: Free #Atten: 3				TY D	PE A WWWWW ET A N N N N N		
10 dB/div	Ref 20.0	00 dB	m						М	kr1 1.40 -45.2	8 0 GHz 25 dBm		Auto Tune
10.0	e 1 Pass												Center Freq 0000000 GHz
-10.0												1.00	Start Freq 0000000 GHz
-20.0												10.00	Stop Freq 0000000 GHz
-40.0				<u>_</u> ~		~~~	~~	~~~~				900 <u>Auto</u>	CF Step 0.000000 MHz Man
-60.0													F req Offset 0 Hz
-70.0													Scale Type
Start 1.00 #Res BW				#	VBW	3.0 MHz		s	weep 1	Stop 10 5.60 ms (*	.000 GHz 8001 pts)	Log	<u>Lin</u>
MSG									STATU	s			

Plot 7-108. Conducted Spurious Plot (LTE Band 12 - 10MHz QPSK - 1 RB - Low Channel - ANT1)

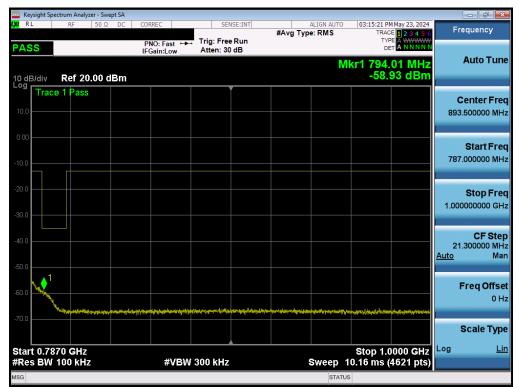
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:		Dere 95 of 196	
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LTE Band 13 – ANT1

	ectrum Analyze						
LXI RL	RF	50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	03:15:13 PM May 23, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Fast ↔ IFGain:Low	→ Trig: Free Run Atten: 30 dB	with the second		
10 dB/div Log	Ref 20.	00 dBm			Μ	kr1 766.10 MHz -65.67 dBm	Auto Tune
10.0	e 1 Pass						Center Freq 403.500000 MHz
-10.0							Start Freq 30.000000 MHz
-20.0							Stop Freq 777.000000 MH2
-40.0							CF Step 74.700000 MHz <u>Auto</u> Mar
-60.0					an y 17 andre and a distribution of the state of the stat		Freq Offse 0 Hz
-70.0	5 6						Scale Type
Start 30.0 #Res BW			#VBV	/ 300 kHz	Sweep 3	Stop 777.0 MHz 5.86 ms (14941 pts)	Log <u>Lin</u>
MSG					STATU	S	

Plot 7-109. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)



Plot 7-110. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dage 96 of 196			
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	ectrum Analyz		SA										
X/RL	RF	50 Ω	DC	CORREC		SEN	NSE:INT	#Avg Typ	ALIGN AUTO		M May 23, 2024	Fn	equency
PASS				PNO: Fa IFGain:L		Trig: Free Atten: 30		#Avg Typ		TY D			
10 dB/div	Ref 20	.00 dE	3m						Mł	(r1 1.56 -46.6	4 0 GHz 77 dBm		Auto Tune
Log Trace	e 1 Pass												enter Fred
10.0													0000000 GHz
0.00													Start Fred
-10.0												1.000	0000000 GHz
10.0													
-20.0													Stop Fred
												10.000	0000000 GHz
-30.0													
-40.0													CF Step
	`					_						Auto	.000000 MHz Mar
-50.0				.		\sim	www.		and the second data				
-60.0												i	Freq Offset
-60.0													0 Hz
-70.0													
												:	Scale Type
Start 1.00	0 GHz									Stop 10	.000 GHz	Log	Lin
#Res BW				#	VBW	3.0 MHz		s	weep 15	i.60 ms (′	8001 pts)		
ISG									STATUS	5			

Plot 7-111. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB)

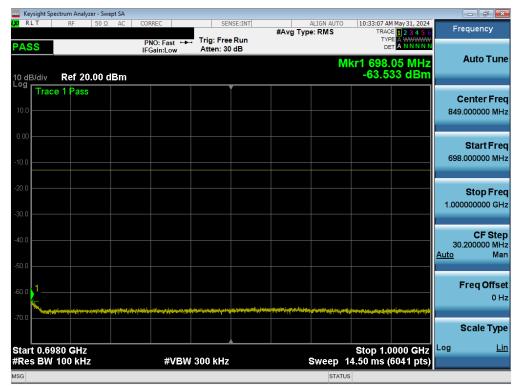
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:		Dege 97 of 196	
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NR Band n71 – ANT1

	ctrum Analyz												_	
RLT	RF	<u>50 Ω</u>	AC	CORREC		SEN	ISE:INT	#Avg Ty	ALIGN AUT pe: RMS	TO 10:		May 31, 2024	F	requency
PASS				PNO: F IFGain:	ast ↔ Low	Trig: Free Atten: 30					TYPE	A WWWWW A N N N N N		
0 dB/div	Ref 20	.00 dl	Зm							Mkr1 -{	661.(54.92	60 MHz 24 dBm		Auto Tun
og Trace	e 1 Pass													Center Fre
10.0														6.500000 MH
0.00														
10.0													3	Start Free 0.000000 MH
10.0														
20.0														Stop Fre
30.0													66	3.000000 MH
40.0														CF Ste
40.0													6 <u>Auto</u>	3.300000 MH Ma
50.0												1		
60.0														Freq Offse
70.0	den de la la de la della					had an a straight white parts		nin an ingeni i ji ya						UH
/0.0														Scale Typ
start 30.0										St	top 66	3.0 MHz	Log	Li
Res BW	100 kHz	-			#VBW	300 kHz			Sweep	30.38 r	ns (12	2661 pts)		
SG									ST/	ATUS				

Plot 7-112. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Low Channel - ANT1)



Plot 7-113. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dama 00 of 400			
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Keysight Spectrum Analyzer - Swept SA					
LXIRLT RF 50Ω AC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	D 10:33:27 AM May 31, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast +++ IFGain:Low	Trig: Free Run Atten: 30 dB		DET A NNNN	
10 dB/div Ref 20.00 dBm			Ν	/kr1 1.346 0 GHz -43.97 dBm	Auto Tune
Trace 1 Pass		Ĭ			Center Freq
10.0					5.50000000 GHz
0.00					
					Start Freq 1.00000000 GHz
-10.0					
-20.0					Stop Freq
-30.0					10.00000000 GHz
					CF Step
-40.0					900.000000 MHz Auto Man
-50.0					Auto Man
-60.0					Freq Offset
-60.0					0 Hz
-70.0					Scale Type
Start 1.000 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep	Stop 10.000 GHz 15.60 ms (18001 pts)	Log <u>Lin</u>
MSG			STA		

Plot 7-114. Conducted Spurious Plot (NR Band n71 - 20.0MHz - 1 RB - Low Channel - ANT1)

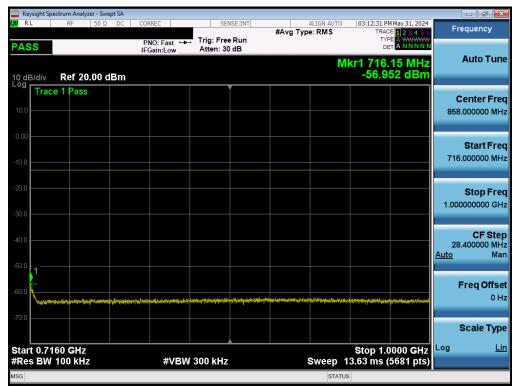
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dage 90 of 196		
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NR Band n12 – ANT1

	ectrum Analyzo	er - Swept SA										
LXI RL	RF	50 Ω DC	CORREC	ast 🔸	SEN	Run	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M May 31, 2024 DE 1 2 3 4 5 6 PE A WWWWW	Fr	equency
PASS	Ref 20.	00 dBm	IFGain:		Atten: 30			Μ	kr1 697	.80 MHz 43 dBm		Auto Tune
10.0	e 1 Pass											Center Freq 1.500000 MHz
-10.0											30	Start Fred
-20.0											699	Stop Fred 0.000000 MH:
-40.0											66 <u>Auto</u>	CF Step 900000 MH Mar
-60.0		tentiktingen teksing	Earth Manual and And Andrews	na mang pang pang bahar dar			a ya fa sa ing sa pangang ng babah da n					Freq Offse 0 H:
-70.0	MHz								Stop 6	99.0 MHz		Scale Type
#Res BW				#VBW	300 kHz		s	weep 32	2.11 ms (1	3380 pts)		
MSG								STATU	S			

Plot 7-115. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Low Channel - ANT1)



Plot 7-116. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Low Channel - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dage 00 of 196		
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	ectrum Analyze	r - Swept SA									d X
LXI RL	RF	50 Ω DC	CORREC		SE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M May 31, 2024	Freque	ncy
PASS			PNO: Fast IFGain:Low	Trig: Free Atten: 30				DE			_
10 dB/div	Ref 20.	00 dBm					Mł	r1 4.95 -43.1	0 0 GHz 27 dBm	Aut	o Tune
	e 1 Pass										er Freq
10.0										5.500000	000 GHz
0.00											rt Freq
-10.0										1.000000	000 GHz
-20.0											op Freq
-30.0										10.000000	000 GHz
-40.0				¹						900.000	F Step
-50.0			~~~		~~~	~~~	-			<u>Auto</u>	Man
-60.0										Fred	Offset
											0 Hz
-70.0										Sca	Іе Туре
Start 1.00 #Res BW			#\/F	3W 3.0 MHz			ween 15	Stop 10	.000 GHz 8001 pts)	Log	Lin
MSG							STATUS		ooon ptoj		

Plot 7-117. Conducted Spurious Plot (NR Band n12 - 15.0MHz - 1 RB - Low Channel - ANT1)

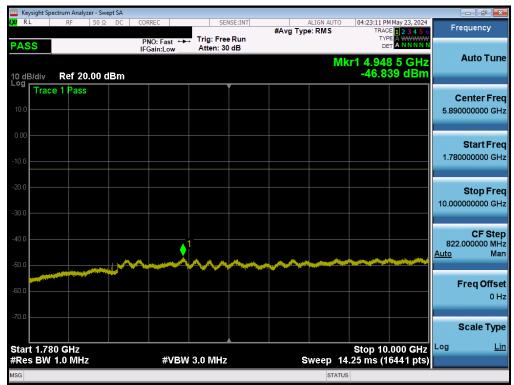
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	ort S/N: Test Dates: EUT Type:		Dega 01 of 196		
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LTE Band 66/4 - ANT1

Keysight Spectru	m Analyzer - Swept S RF 50 Ω	SA DC CORREC	CENCE INT	ALIGN AUTO	04-00-54 PMM00-0004	
	RF 50 Ω L	PNO: Fast +	SENSE:INT	#Avg Type: RMS	04:22:54 PM May 23, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div R	tef 20.00 dB	IFGain:Low	Atten: 30 dB	M	сг1 1.652 0 GHz -53.530 dBm	Auto Tune
10.0 Trace 1	Pass					Center Free 870.000000 MH
-10.0						Start Free 30.000000 MH
-20.0						Stop Fre 1.710000000 GH
-40.0					1.	CF Ste 168.000000 M⊢ <u>Auto</u> Ma
-00.0	اه روی وروند در به دو باده در به دو باده ا	ngalar ingkalipaganakan katalah mangan farakat	ŢŦĸĹŎŎŔġĸĸţŎŢĿĹĸĬĸŎĬŔ ^Ŧ ŢŶ ^Ċ ŔĸIJĬŔĹĬŔŎĬŔġĹĬġĿŔŖĿ	eten unen en	terner och försatoranden ander an	Freq Offse 0 H
-70.0						Scale Type
Start 0.0300 #Res BW 1.0		#VBW	3.0 MHz	Sweep 2	Stop 1.7100 GHz 240 ms (3361 pts)	Log <u>Li</u> i
MSG				STATUS	3	

Plot 7-118. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel)



Plot 7-119. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dega 02 of 196		
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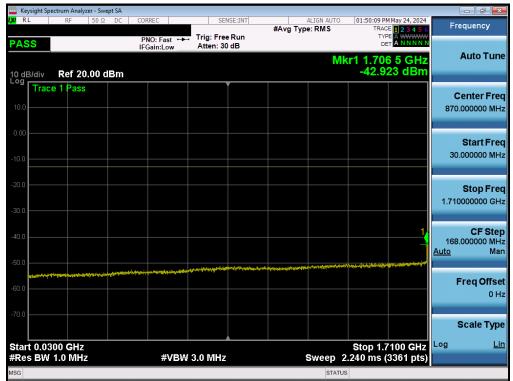
	ectrum Analyz												
XI RL	RF	50 Ω D0	C COR	REC	SEI	SE:INT	#Avg Typ	ALIGN AUTO		M May 23, 2024	Freq	Frequency	
PASS				IO: Fast ↔ ain:Low	Trig: Free Atten: 30		#/ 19 1 JP		TYF DE				
10 dB/div	Ref 20	.00 dBn	n					Mkr	1 19.53 -41.9	5 0 GHz 67 dBm	A	uto Tune	
Log Trac	e 1 Pass											n ter Frec 00000 GHz	
-10.0												tart Fred	
-20.0												t op Fre d	
-40.0											1.00000 <u>Auto</u>	CF Stej 00000 GH Mai	
-50.0											Fre	e q Offse 0 H	
-70.0												ale Type	
Start 10.0 #Res BW				#VBV	V 3.0 MHz		s	weep 17	Stop 20 33 ms (2	.000 GHz 0001 pts)	Log	Lir	
MSG								STATUS	3				

Plot 7-120. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB – High Channel)

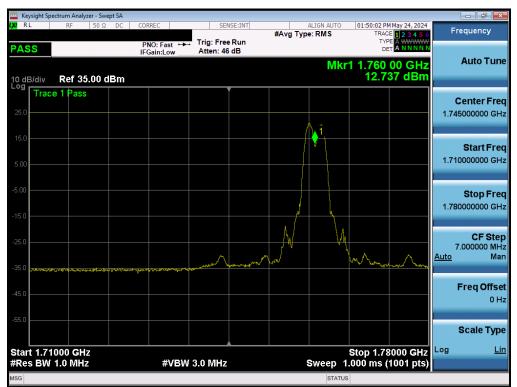
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dago 02 of 196			
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ULCA LTE Band 66 – Ant1



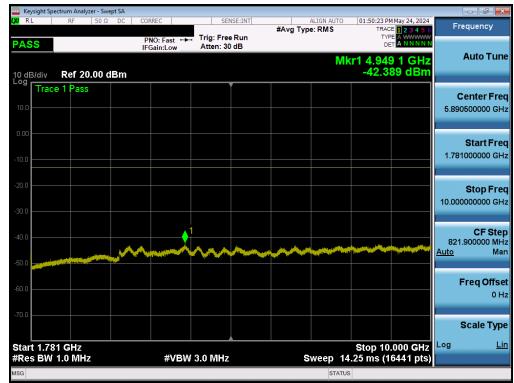
Plot 7-121. Conducted Spurious Plot (ULCA LTE Band 66 - 20+20MHz QPSK - PCC 1/0 SCC 1/99 - High Channel - Ant1)



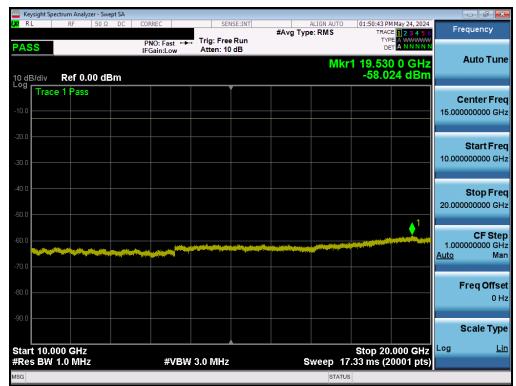
Plot 7-122. Conducted Spurious Plot (ULCA LTE Band 66 – 20+20MHz QPSK - PCC 1/0 SCC 1/0 - High Channel – Ant1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
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Plot 7-123. Conducted Spurious Plot (ULCA LTE Band 66 - 20+20MHz QPSK - PCC 1/0 SCC 1/0 - High Channel - Ant1)



Plot 7-124. Conducted Spurious Plot (ULCA LTE Band 66 – 20+20MHz QPSK - PCC 1/0 SCC 1/0 - High Channel – Ant1)

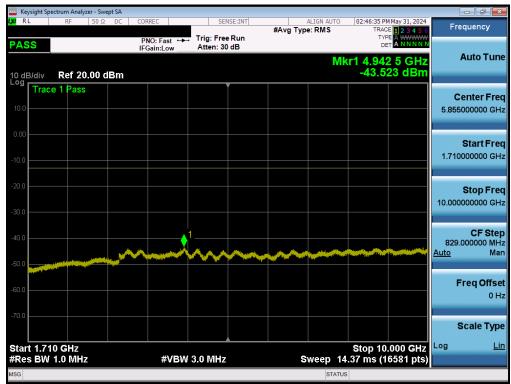
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dage OF of 196		
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NR Band n70 - ANT1

		Analyzer - Sv	wept SA									
XI RL	R	F 50 S	2 DC	CORREC	SEI	SE:INT	#Avg Typ	ALIGN AUTO		May 31, 2024	Fr	equency
PASS				PNO: Fast ↔ IFGain:Low	Trig: Free Atten: 30		#///g//jp		TYF DE			
10 dB/di	iv Re	f 20.00	dBm					M	r1 1.69 -45.6	4 5 GHz 88 dBm		Auto Tune
	race 1	Pass										Center Freq
10.0												2.500000 MHz
0.00												
10.0											30	Start Freq 0.000000 MHz
-10.0												
-20.0												Stop Freq
-30.0											1.69	5000000 GHz
												CF Step
-40.0										1	166 Auto	5.500000 MHz Man
-50.0				and the second secon	-	tertant. Marganeter	والمرود و	in the second second second	and the state of the	er til skjer som en de som som det skare		
-60.0		an a									I	Freq Offset
												0 Hz
-70.0												Scale Type
Start 0	.0300 0	GHz							Stop 1.6	6950 GHz	Log	Lin
#Res B				#VB\	V 3.0 MHz			Sweep 2	.220 ms (3331 pts)		
MSG								STATUS	5			

Plot 7-125. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT1)



Plot 7-126. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	est Report S/N: Test Dates: EUT Type:		Dage 06 of 1	06	
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it SA				
DC CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	02:46:53 PM May 31, 2024	Frequency
PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 10 dB	- //	TYPE A WWWW DET A NNNNN	
m		Mkr	1 19.538 5 GHz -59.221 dBm	Auto Tune
	Ť			Center Fred
				15.00000000 GHz
				Start Fred
				10.000000000 GHz
				Stop Free
				20.00000000 GHz
			1	
				CF Step 1.000000000 GHz
				<u>Auto</u> Mar
				Freq Offset
				0 Hz
				Scale Type
#\/R\M	3.0 MHz	Sween 17	Stop 20.000 GHZ	Log <u>Lin</u>
#VDVV	5.0 19112			
	DC CORREC PNO: Fast +++ IFGain:Low m	DC CORREC SENSE:INT PNO: Fast ++- IFGain:Low Trig: Free Run Atten: 10 dB	DC CORREC SENSE:INT ALIGN AUTO PNO: Fast Trig: Free Run Atten: 10 dB #Avg Type: RMS	DC CORREC SENSE:INT ALIGN AUTO 02:46:53 PMMay 31, 2024 PNO: Fast IFGain:Low Trig: Free Run Atten: 10 dB Mikr1 19.538 5 GHz -59.221 dBm -59.221 dBm -59.250

Plot 7-127. Conducted Spurious Plot (NR Band n70 - 15.0MHz - 1 RB - Mid Channel - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:		Dego 07 of 196	
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NR Band n66 – ANT1

	ectrum Analyzer - Swep	t SA				
🗶 RL	RF 50 Ω	DC CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	10:52:09 AM Jun 03, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS		PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 30 dB	#Avg Type. Rivis		
10 dB/div	Ref 20.00 dl	Зm		MI	kr1 1.707 0 GHz -48.854 dBm	Auto Tune
Log Trac	e 1 Pass		Ĭ			Center Fred
10.0						870.000000 MH
0.00						
						Start Free 30.000000 MH;
-10.0						30.00000 MHz
-20.0						Stop Free
-30.0						1.710000000 GH
						CF Step
-40.0					1,	168.000000 MH Auto Mar
-50.0		a sector first and a sector of as a side	יינגעע גער אין איין איין אין איין איין איין איין	with the state of		
-60.0	n fi inn falge janne, frins die hei partie					Freq Offse
						0 H:
-70.0						Scale Type
Start 0.03					Stop 1.7100 GHz	Log <u>Lir</u>
	1.0 MHz	#VBV	V 3.0 MHz	Sweep 2	2.240 ms (3361 pts)	
MSG				STATU	S	

Plot 7-128. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - ANT1)



Plot 7-129. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - ANT1)

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	ectrum Analyz											- F	
LXI RL	RF	50 Ω D	C CO	RREC		SEI	ISE:INT	#Avg Ty	ALIGN AUTO		AM Jun 03, 2024 ACE 1 2 3 4 5 6	Frequenc	y
PASS				NO: Fast Gain:Low		Trig: Free Atten: 10				Т			
10 dB/div	Ref 0.0	00 dBm							Mk	r1 19.39 -59.4	97 5 GHz 481 dBm	Auto 1	Tune
-10.0	e 1 Pass											Center 15.000000000	
-20.0												Start 10.000000000	
-40.0												Stop 20.000000000	
-60.0											1	CF 1.000000000 <u>Auto</u>	Step 0 GHz Mar
-80.0												Freq O	Offse 0 Ha
-90.0												Scale '	
Start 10.0 #Res BW				#V	BW :	3.0 MHz			Sweep 1	Stop 2 7.33 ms (0.000 GHz (20001 pts)	Log	Lin
MSG									STAT				

Plot 7-130. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	30.0 - 663.0	-46.77	-13	-33.77
		Low	698.0 - 1000.0	-48.25	-13	-35.25
		Low	1000.0 - 10000.0	-63.96	-13	-50.96
		Mid	30.0 - 663.0	-54.13	-13	-41.13
LTE-B66-4	20 MHz	Mid	698.0 - 1000.0	-48.35	-13	-35.35
		Mid	1000.0 - 10000.0	-63.92	-13	-50.92
		High	30.0 - 663.0	-54.38	-13	-41.38
		High	698.0 - 1000.0	-47.03	-13	-34.03
		High	1000.0 - 10000.0	-63.78	-13	-50.78

Table 7-18. Conducted Spurious Emissions Results – Ant2

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
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LTE Band 66/4 – ANT2

	ctrum Analyzer - Swep									×
LXI RL	RF 50 Ω			ENSE:INT	#Avg Typ	ALIGN AUTO e: RMS	12:52:16 PM M TRACE	ay 30, 2024 2 3 4 5 6 A WWWWWW	Frequency	У
PASS	Ref 20.00 dl	IFGain:	ast Trig: Fre			Mk	DET.	ANNNNN	Auto T	ſune
Log	a 1 Pass								Center 869.500000	
-10.0									Start I 30.000000	
-20.0									Stop I 1.709000000	
-40.0								1	CF \$ 167.900000 <u>Auto</u>	
-60.0	n fritten fan gesen ster of fan sjon fan ster	ale anno 1999 -	ing the angle of the state of the	ag da ⁿ ter of design data of	<u>hir rice with states of states</u>			and the second	Freq O	ffse 0 Hi
-70.0									Scale 1	
Start 0.030 #Res BW			#VBW 3.0 MH2	2		Sweep 2	Stop 1.70 .240 ms (3	90 GHz 361 pts)	Log	Lin
MSG						STATUS				

Plot 7-131. Conducted Spurious Plot (LTE Band 66/4 - 10MHz QPSK - 1 RB)



Plot 7-132. Conducted Spurious Plot (LTE Band 66/4 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Dana 404 af 400		
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Keysight Spectrum Analyzer - Swept SA					
RL RF 50Ω D0	C CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	12:53:14 PM May 30, 2024 TRACE 1 2 3 4 5 6	Frequency
ASS	PNO: Fast 😱	Trig: Free Run Atten: 10 dB	"g .)periode	TYPE A WWWWW DET A NNNNN	
0 dB/div Ref 0.00 dBm			Mkr	1 19.549 5 GHz -63.960 dBm	Auto Tun
og Trace 1 Pass		Ĭ			Center Fre
10.0					15.00000000 GH
0.0					Start Fre
30.0					10.00000000 GH
0.0					Stop Fre
0.0					20.00000000 GI
0.0					
0.0				1	CF Ste 1.000000000 G
					<u>Auto</u> Ma
0.0					Freq Offs
					01
0.0					Scale Typ
tart 10.000 GHz Res BW 1.0 MHz	#\(D)A(3.0 MHz	Swoon 47	Stop 20.000 GHz .33 ms (20001 pts)	Log <u>L</u>
	#VBW	3.0 MINZ	Sweep 17		

Plot 7-133. Conducted Spurious Plot (LTE Band 66/4 - 10MHz QPSK - 1 RB)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
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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 its maximum duty cycle, 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.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

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 > 1% of the emission bandwidth
- 4. VBW ≥ 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 27.53(h) for AWS band operation, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to demonstrate compliance with the out-of-band emissions limit. 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 emission are attenuated at least 26 dB below the transmitter power.
- 2. Per 27.53(g) for operations in the 663 698 MHz and 698 746MHz bands, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
- 3. Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.
- For all plots showing emissions in the 763 775MHz and 793 805MHz band, the FCC limit per 27.53(c)(4) is 65 + 10 log₁₀(P) = -35dBm in a 6.25kHz bandwidth.

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	Band Edge	-22.36	-13	-9.36
		Low	Extended	-14.86	-13	-1.86
		High	Band Edge	-23.61	-13	-10.61
		High	Extended	-19.06	-13	-6.06

Table 7-19. Conducted Band Edge Results – Ant1

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-18.46	-13	-5.46
LTE Band 66B/C	40 MHz	Low	Extended	-26.23	-13	-13.23
ULCA	40 1011 12	High	Band Edge	-18.19	-13	-5.19
		High	Extended	-30.23	-13	-17.23
	20 MHz	Low	Band Edge	-34.68	-13	-21.68
		High	Band Edge	-29.97	-13	-16.97
	15 MHz	Low	Band Edge	-34.28	-13	-21.28
LTE Band 71		High	Band Edge	-29.88	-13	-16.88
	10 MHz	Low	Band Edge	-34.36	-13	-21.36
		High	Band Edge	-31.82	-13	-18.82
		Low	Band Edge	-26.59	-13	-13.59
	5 MHz	High	Band Edge	-26.12	-13	-13.12
	10 MHz	Low	Band Edge	-34.69	-13	-21.69
		High	Band Edge	-33.53	-13	-20.53
	5 MHz	Low	Band Edge	-27.94	-13	-14.94
ITE Band 12		High	Band Edge	-29.07	-13	-16.07
LTE Band 12	3 MHz	Low	Band Edge	-24.93	-13	-11.93
		High	Band Edge	-23.35	-13	-10.35
	1.4 MHz	Low	Band Edge	-18.50	-13	-5.50
		High	Band Edge	-21.09	-13	-8.09
		Low	Band Edge	-35.65	-13	-22.65
	10 MHz	Low	Emission Mask	-65.19	-13	-52.19
LTE Band 13		High	Band Edge	-32.58	-13	-19.58
		High	Emission Mask	-48.79	-13	-35.79
		Low	Band Edge	-26.98	-13	-13.98
	5 MHz	Low	Emission Mask	-59.69	-13	-46.69
		High	Band Edge	-27.11	-13	-14.11
		High	EmMask	-57.49	-13	-44.49

Table 7-20. Conducted Band Edge Results – Ant1

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-27.88	-13	-14.88
		Low	Extended	-24.95	-13	-11.95
	20MHz	High (B4)	Band Edge	-29.99	-13	-16.99
		High (B4)	Extended	-27.58	-13	-14.58
		High (B66)	Band Edge	-29.89	-13	-16.89
		High (B66)	Extended	-27.26	-13	-14.26
		Low	Band Edge	-26.99	-13	-13.99
		Low	Extended	-23.81	-13	-10.81
	15MHz	High (B4)	Band Edge	-29.18	-13	-16.18
	TOIVINZ	High (B4)	Extended	-25.99	-13	-12.99
		High (B66)	Band Edge	-28.52	-13	-15.52
		High (B66)	Extended	-26.32	-13	-13.32
		Low	Band Edge	-26.03	-13	-13.03
		Low	Extended	-21.63	-13	-8.63
	10MHz	High (B4)	Band Edge	-27.05	-13	-14.05
		High (B4)	Extended	-22.50	-13	-9.50
		High (B66)	Band Edge	-28.78	-13	-15.78
LTE Band 66/4		High (B66)	Extended	-23.50	-13	-10.50
LIE Danu 00/4	5MHz	Low	Band Edge	-24.68	-13	-11.68
		Low	Extended	-22.83	-13	-9.83
		High (B4)	Band Edge	-26.10	-13	-13.10
		High (B4)	Extended	-23.66	-13	-10.66
		High (B66)	Band Edge	-27.51	-13	-14.51
		High (B66)	Extended	-26.45	-13	-13.45
	3MHz	Low	Band Edge	-26.58	-13	-13.58
		Low	Extended	-22.66	-13	-9.66
		High (B4)	Band Edge	-25.50	-13	-12.50
		High (B4)	Extended	-23.26	-13	-10.26
		High (B66)	Band Edge	-25.76	-13	-12.76
		High (B66)	Extended	-24.81	-13	-11.81
		Low	Band Edge	-25.41	-13	-12.41
	1.4MHz	Low	Extended	-31.38	-13	-18.38
		High (B4)	Band Edge	-25.41	-13	-12.41
		High (B4)	Extended	-31.75	-13	-18.75
		High (B66)	Band Edge	-27.50	-13	-14.50
		High (B66)	Extended	-28.71	-13	-15.71

 Table 7-21. Conducted Band Edge Results – Ant1

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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66B/C ULCA	40 MHz	Low	Band Edge	-18.46	-13	-5.46
		Low	Extended	-26.23	-13	-13.23
		High	Band Edge	-18.19	-13	-5.19
		High	Extended	-30.23	-13	-17.23

Table 7-22. Conducted Band Edge Results – Ant1

FCC ID: A3LSMX828U		Approved by: Technical Manager	
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WCDMA AWS – ANT1



Plot 7-134. Lower Band Edge Plot (WCDMA AWS - Ch. 1312 - ANT1)



Plot 7-135. Lower Extended Band Edge Plot (WCDMA AWS - Ch. 1312 - ANT1)

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Plot 7-136. Upper Band Edge Plot (WCDMA AWS - Ch. 1513 - ANT1)



Plot 7-137. Upper Extended Band Edge Plot (WCDMA AWS - Ch. 1513- ANT1)

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LTE Band 71 – ANT1



Plot 7-138. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK - Full RB - ANT1)

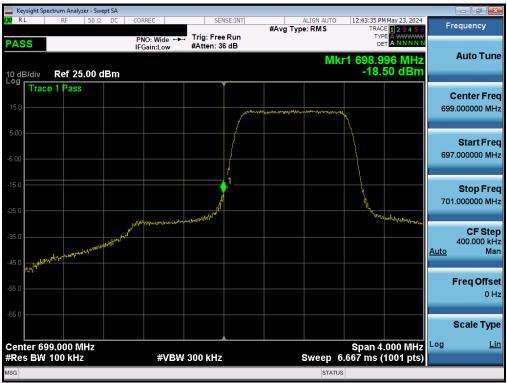


Plot 7-139. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK - Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT				
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LTE Band 12 – ANT1



Plot 7-140. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - ANT1)



Plot 7-141. Upper Band Edge Plot (LTE Band 12 - 1.4MHz QPSK - Full RB - ANT1)

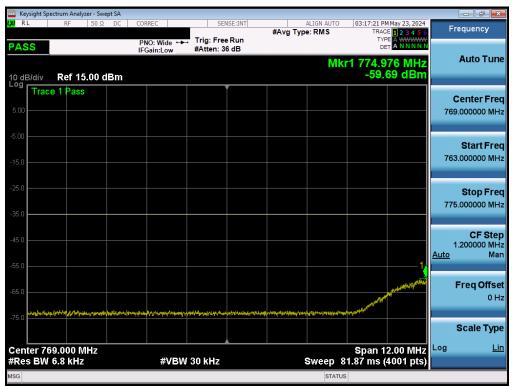
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Dega 111 of 196			
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LTE Band 13 – ANT1



Plot 7-142. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)



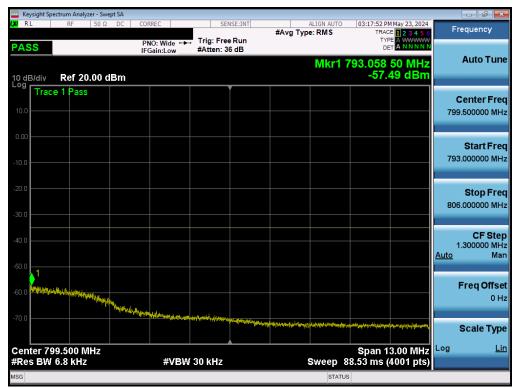
Plot 7-143. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT				
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	ectrum Analyzer -										
LXIRL	RF 51	Ω DC	CORREC		NSE:INT	#Avg Typ	ALIGN AUTO	TRAC	M May 23, 2024	F	requency
PASS			PNO: Wide ↔ IFGain:Low	. Trig: Free #Atten: 3			Mk	DI			Auto Tune
10 dB/div	Ref 25.00	0 dBm						-27.	11 dBm		
Log Trac	e 1 Pass										Center Fred 7.000000 MHz
	على المراجع ال	⊷ _₽ აჴქჭაქზე _ბ ელე ^{გე} გიუ	and and the second second	***						/8	
5.00										78	Start Free 5.000000 MH;
-5.00											
-15.0				N.	1					78	Stop Free 9.000000 MH
-25.0				III III III III III III III III III II	Ny Multon						CF Ster
-35.0					Contraction of the second	Ulbaran Mary Anna Mara	water where the server	and a start and a start and a start a s	grow gran and and	<u>Auto</u>	400.000 kH Ma
-45.0											Freq Offse
-55.0											он
-65.0											Scale Type
Center 78 #Res BW	7.000 MHz 100 kHz	2	#VBW	300 kHz			Sweep 6	Span 4 6.667 m <u>s (</u>	.000 MHz 1001 pts)	Log	<u>Lir</u>
MSG							STATU				

Plot 7-144. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)



Plot 7-145. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
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LTE Band 66/4 – ANT1

	ectrum Analyzer - S	wept SA									
LXU RL	RF 50	Ω DC (ORREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO		M May 23, 2024	Fr	requency
PASS			PNO: Wide ↔ IFGain:Low	. Trig: Free #Atten: 3		#/18 I JP		TY D			A
10 dB/div	Ref 25.00	dBm					Mkr1	1.709 9 -26.	975 GHz 03 dBm		Auto Tune
Log Trace	e 1 Pass				Mr. min		en an	And and a			Center Freq 0000000 GHz
-5.00										1.69	Start Freq 7500000 GHz
-15.0					1					1.72	Stop Freq 2500000 GHz
-35.0	. Anoral Mar	war war		MAN ANN						Auto ²	CF Step 2.500000 MHz Man
-55.0	ru. v										Freq Offset 0 Hz
-65.0											Scale Type
	71000 GHz		20 (200	750 144-				Span 2	25.00 MHz	Log	Lin
#Res BW	240 KHZ		#VBW	750 kHz					(1001 pts)		
MSG							STATUS				

Plot 7-146. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - ANT1)

	trum Analyzer - Swe	pt SA									
X/RL	RF 50 Ω	DC CC	DRREC		ISE:INT	#Avg Typ	ALIGN AUTO	TRACI	May 23, 2024	F	requency
PASS			PNO: Wide ↔ Gain:Low	 Trig: Free #Atten: 36 			Mkr1	DE			Auto Tune
10 dB/div Log	Ref 25.00 d	Bm						-21.63	32 dBm		
15.0 Trace	1 Pass										Center Free 7000000 GH
5.00										1.70	Start Fre 5000000 GH
-15.0									1	1.70	Stop Fre 9000000 GH
35.0		Angelan an a	an a							Auto	CF Ste 400.000 kH Ma
45.0 <u> </u>											Freq Offs 0 H
65.0											Scale Typ
Center 1.70 #Res BW 1	07000 GHz .0 MHz		#VBW	/ 3.0 MHz			Sweep 6	Span 4. .667 ms (′		Log	Li
MSG							STATUS	;			

Plot 7-147. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager		
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	RF 5	50Ω I										
DA 00				RREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO		M May 23, 2024	Fre	quency
PASS				NO: Wide ↔ Gain:Low	Trig: Fre #Atten: 3		#/(18.1)P		TYF DE			
10 dB/div Log	Ref 25.0	0 dB	m					Mkr1	1.755 0 -27.	025 GHz 05 dBm		Auto Tune
15.0 Trace	1 Pass	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mary	hallmoondurally	contractor a							enter Freq 000000 GHz
-5.00												Start Freq 500000 GHz
-15.0						1					1.767	Stop Freq 500000 GHz
-35.0						manne	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mark Mark	Warty Mar		2. <u>Auto</u>	CF Step 500000 MHz Man
-55.0										thorn the	F	r eq Offset 0 Hz
-65.0											5	Scale Type
Center 1.7 #Res BW 3		z		#VBM	750 kHz			Sween_1	Span 2	5.00 MHz 1001 pts)	Log	<u>Lin</u>
MSG					Tee MILZ			STATUS		ree r ptoj		

Plot 7-148. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - ANT1)



Plot 7-149. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:		Dage 115 of 196	
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	pectrum Analyzer - Sv									
KI RL	RF 50 \$	2 DC	CORREC	SENSE:		ALIGN AUTO		1 May 23, 2024	Freq	uency
PASS			PNO: Wide +++ IFGain:Low	Trig: Free Ru #Atten: 36 df	in	- //	TYP DE			
10 dB/div Log	Ref 25.00	dBm				Mkr1	1.780 0 -28.1	25 GHz 78 dBm	A	uto Tune
15.0 Tra	ce 1 Pass	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	www.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						n ter Freq 00000 GHz
-5.00										tart Fred
-15.0				1						top Fred
-35.0	ward				Mary Mary	arne Jahranak	www.holmanda		2.50 <u>Auto</u>	CF Step 00000 MH2 Mar
-55.0								VMU MU	Fre	e q Offse l 0 Hz
-65.0									Sc	ale Type
	.78000 GHz 240 kHz		#VBW			Sweep 1	Span 2: .000 ms (5.00 IVII 12	Log	<u>Lin</u>
MSG						STATU	5			

Plot 7-150. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB - ANT1)



Plot 7-151. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK - Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 116 of 186	
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Uplink CA LTE Band 66B/C – ANT1



Plot 7-152. Lower Band Edge Plot (ULCA LTE Band 66 - ANT1)



Plot 7-153. Lower Extended Band Edge Plot (ULCA LTE Band 66 - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dama 447 of 400	
1M2405140039-02.A3L	5/23/2024 - 6/13/2024	Portable Tablet	Page 117 of 186	
© 2024 ELEMENT		÷	V/11 1 08/28/2023	



LXI RL	RF 50 Ω									
		2 DC	CORREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO	TRACE	May 24, 2024	Frequency
PASS			PNO: Fast ++ IFGain:Low	Trig: Fre #Atten: 3				TYP! DE		
10 dB/div Log	Ref 25.00	dBm					MI	kr1 1.780 -18.1) 1 GHz I9 dBm	Auto Tune
15.0 Trace	1 Pass	angada a faran ang daga ta ga								Center Freq 1.780000000 GHz
-5.00										Start Freq 1.730000000 GHz
-15.0										Stop Freq 1.830000000 GHz
-35.0					ware	ann an	White the work was a former			CF Step 10.000000 MHz <u>Auto</u> Man
-55.0									and method and a	Freq Offset 0 Hz
-65.0										Scale Type
Center 1.7 #Res BW /			#\/P\A	3.0 MHz			Sween	Span 10 1.000 ms (1	00.0 MHz	Log <u>Lin</u>
#RES DW			#VDV	J.U 191112			Sweep		ioo r pis)	

Plot 7-154. Upper Band Edge Plot (ULCA LTE Band 66 - ANT1)



Plot 7-155. Upper Extended Band Edge Plot (ULCA LTE Band 66 - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 118 of 186	
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-29.17	-13	-16.17
	20 MHz	High	Extended	-29.96	-13	-16.96
		Low	Band Edge	-27.00	-13	-14.00
	15 MHz	High	Extended	-29.65	-13	-16.65
NR Band n71	10 MHz	Low	Band Edge	-27.41	-13	-14.41
		High	Extended	-30.77	-13	-17.77
	5 MHz	Low	Band Edge	-21.53	-13	-8.53
		High	Extended	-26.33	-13	-13.33
	15 MHz	Low	Band Edge	-32.18	-13	-19.18
		High	Extended	-31.72	-13	-18.72
NR Band n12	10 MHz	Low	Band Edge	-33.12	-13	-20.12
INIT Danu IIIZ		High	Extended	-32.00	-13	-19.00
	5 MHz	Low	Band Edge	-30.31	-13	-17.31
		High	Extended	-30.51	-13	-17.51
	15 MHz	Low	Band Edge	-34.41	-13	-21.41
		Low	Extended	-21.61	-13	-8.61
		High	Band Edge	-34.47	-13	-21.47
		High	Extended	-24.37	-13	-11.37
		Low	Band Edge	-32.35	-13	-19.35
NR Band n70	10 MHz	Low	Extended	-17.20	-13	-4.20
NIC Danu 1170		High	Band Edge	-34.91	-13	-21.91
		High	Extended	-20.87	-13	-7.87
		Low	Band Edge	-32.33	-13	-19.33
	5 MHz	Low	Extended	-26.48	-13	-13.48
		High	Band Edge	-32.66	-13	-19.66
		High	Extended	-27.25	-13	-14.25

Table 7-23. Conducted Band Edge Results – Ant1

FCC ID: A3LSMX828U		Approved by: Technical Manager					
Test Report S/N:	Test Dates:	EUT Type:	Page 119 of 186				
1M2405140039-02.A3L	5/23/2024 - 6/13/2024	Portable Tablet	Fage 119 01 100				
© 2024 ELEMENT V11.1 08/28/20							



Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
	40.041	Low	Band Edge	-26.98	-13	-13.98
		Low	Extended	-30.09	-13	-17.09
	40 MHz	High	Band Edge	-23.36	-13	-10.36
		High	Extended	-33.37	-13	-20.37
		Low	Band Edge	-30.27	-13	-17.27
	35 MHz	Low	Extended	-29.30	-13	-16.30
		High	Band Edge	-32.64	-13	-19.64
		High	Extended	-32.63	-13	-19.63
		Low	Band Edge	-27.16	-13	-14.16
	30 MHz	Low	Extended	-28.86	-13	-15.86
	30 1011 12	High	Band Edge	-29.03	-13	-16.03
		High	Extended	-32.82	-13	-19.82
		Low	Band Edge	-33.50	-13	-20.50
	25 MHz	Low	Extended	-33.50	-13	-20.50
		High	Band Edge	-35.77	-13	-22.77
NR Band n66		High	Extended	-35.77	-13	-22.77
ININ Dariu 1100		Low	Band Edge	-31.93	-13	-18.93
	20 MHz	Low	Extended	-24.23	-13	-11.23
		High	Band Edge	-34.89	-13	-21.89
		High	Extended	-27.72	-13	-14.72
		Low	Band Edge	-32.82	-13	-19.82
	15 MHz	Low	Extended	-21.14	-13	-8.14
		High	Band Edge	-34.09	-13	-21.09
		High	Extended	-23.73	-13	-10.73
		Low	Band Edge	-32.36	-13	-19.36
	10 MHz	Low	Extended	-16.86	-13	-3.86
		High	Band Edge	-34.23	-13	-21.23
		High	Extended	-20.12	-13	-7.12
		Low	Band Edge	-31.18	-13	-18.18
		Low	Extended	-25.92	-13	-12.92
	5 MHz	High	Band Edge	-31.54	-13	-18.54
		High	Extended	-26.03	-13	-13.03

Table 7-24. Conducted Band Edge Results – Ant1

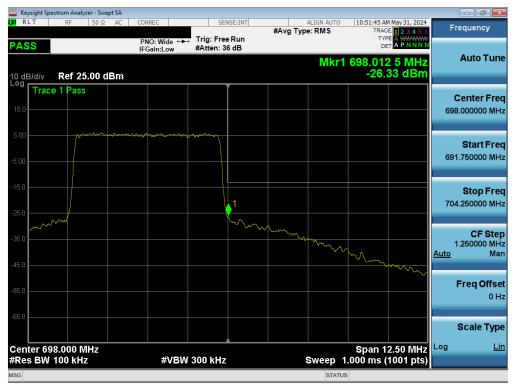
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 120 of 196	
1M2405140039-02.A3L	5/23/2024 - 6/13/2024	Portable Tablet	Page 120 of 186	
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NR Band n71 – ANT1



Plot 7-156. Lower Band Edge Plot (NR Band n71 - 5.0MHz - Full RB - ANT1)



Plot 7-157. Upper Band Edge Plot (NR Band n71 – 5.0MHz - Full RB - ANT1)

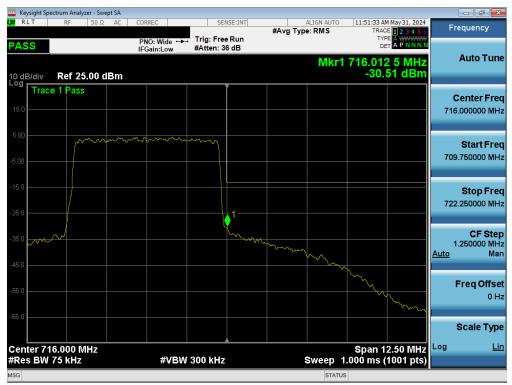
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 101 of 106	
1M2405140039-02.A3L	5/23/2024 - 6/13/2024	Portable Tablet	Page 121 of 186	
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NR Band n12 – ANT1



Plot 7-158. Lower Band Edge Plot (NR Band n12 - 5.0MHz - Full RB - ANT1)



Plot 7-159. Upper Band Edge Plot (NR Band n12 – 5.0MHz - Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 100	
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NR Band n70 – ANT1



Plot 7-160. Lower Band Edge Plot (NR Band n70 - 10.0MHz - Full RB - ANT1)



Plot 7-161. Lower Extended Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMX828U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 102 of 196
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RL RF 50 Ω DC ASS Contract Pass ContPas <thcontpas< th=""></thcontpas<>	CORREC SET	e Run	ype: RMS	02:56:47 PM May 31, 2024 TRACE 2 2 3 4 5 6 TYPE 2 3 4 5 6 DET & NNNNN .710 300 GHz -34.91 dBm	Frequency Auto Tune Center Free 1.71000000 GH2
B/div Ref 25.00 dBm	IFGain:Low #Atten: 3		Mkr1 1	.710 300 GHz	Center Fred
Trace 1 Pass	mm				
mm	mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm				
					Start Free 1.697500000 GH
5.0					Stop Free 1.722500000 GH
5.0		1 Munna	www.	-Vhumm	CF Ste 2.500000 MH <u>Auto</u> Ma
5.0				V Munnun	Freq Offse 0 H
5.0				Span 25.00 MHz	Scale Typ
Res BW 120 kHz	#VBW 430 kHz		Sweep 1.0	00 ms (1001 pts)	

Plot 7-162. Upper Band Edge Plot (NR Band n70 - 10.0MHz - Full RB - ANT1)

🚾 Keysight Spectrum Analyzer - Swept SA 👘				
🗶 RE RF 50Ω DC	CORREC SENS	SE:INT ALIGN AU #Avg Type: RMS	TO 02:56:54 PM May 31, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide Trig: Free IFGain:Low #Atten: 36	Run dB	rr1 1.711 004 GHz -20.87 dBm	Auto Tune
Log Trace 1 Pass			20.01 4011	
				Center Fred 1.713000000 GHz
5.00				Start Free 1.711000000 GH:
-15.0				Stop Fred 1.715000000 GHz
-35.0	Alexandra ann an Alexandra	mitslandarfallnaatslangenaatslangensigenis	หม่งไม่ได้ที่สุดมูลกับครุบสินที่สุดที่จากเราสมัดของหลุดกับเ	CF Step 400.000 kH <u>Auto</u> Mar
-65.0				Freq Offse 0 H:
-65.0				Scale Type
Center 1.713000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Swee	Span 4.000 MHz 5 6.667 ms (1001 pts)	Log <u>Lir</u>
MSG	« • E • • • • • • • • • • • • • •		ATUS	

Plot 7-163. Upper Extended Band Edge Plot (NR Band n70 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dama 124 of 196	
1M2405140039-02.A3L	5/23/2024 - 6/13/2024	Portable Tablet	Page 124 of 186	
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NR Band n66 - ANT1



Plot 7-164. Lower Band Edge Plot (NR Band n66 - 10.0MHz - Full RB - ANT1)

Keysight Spectrum Analyzer - Swept SA					
RL RF 50Ω DC		rig: Free Run Atten: 36 dB	ALIGN AUTO #Avg Type: RMS	02:01:09 PM Jun 03, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
IO dB/div Ref 25.00 dBm	in Gameen		Mkr1	1.708 988 GHz -16.86 dBm	Auto Tune
^{-og} Trace 1 Pass					Center Fred 1.707000000 GHz
5.00					Start Fred 1.705000000 GH:
25.0			And the second s		Stop Fred 1.709000000 GH
45.0					CF Step 400.000 kH Auto Mar
55.0					Freq Offse 0 H
65.0					Scale Type
Center 1.707000 GHz #Res BW 1.0 MHz	#VBW 3.	0 MHz	Sweep 6	Span 4.000 MHz 5.667 ms (1001 pts)	Log <u>Lir</u>
ISG			STATUS	5	

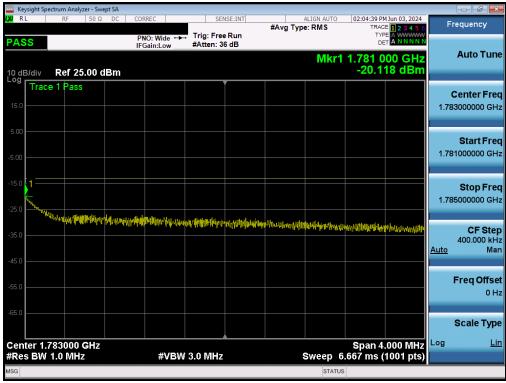
Plot 7-165. Lower Extended Band Edge Plot (NR Band n66 - 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMX828U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 125 of 196
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	ectrum Analyzer -						
XI RL	RF 50	Ω DC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	02:04:27 PM Jun 03, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB		DET A WWWWW	
10 dB/div	Ref 25.00) dBm			Mkr	1.780 425 GHz -34.23 dBm	Auto Tune
	e 1 Pass			Ĭ			Center Fred
15.0							1.780000000 GHz
5.00	m	~~~~	mmmm	unen			Start Fred
-5.00							1.767500000 GHz
-15.0							Stop Fred
-25.0							1.792500000 GH
				♦ ¹			CF Ster
-35.0	r In			MM	Munn		2.500000 MH Auto Mar
-45.0						Mr.	
-55.0							Freq Offset 0 Ha
-65.0							0
							Scale Type
Center 1.7 #Res BW	78000 GHz 120 kHz		#VBW	430 kHz	Sweep	Span 25.00 MHz 1.000 ms (1001 pts)	Log <u>Lir</u>
ISG					STATU		

Plot 7-166. Upper Band Edge Plot (NR Band n66 - 10.0MHz - Full RB - ANT1)



Plot 7-167. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT1)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 126 of 186		
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Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
		Low	Band Edge	-25.23	-13	-12.23
		Low	Extended	-23.37	-13	-10.37
	20MHz	High (B4)	Band Edge	-35.12	-13	-22.12
		High (B4)	Extended	-34.00	-13	-21.00
		High (B66)	Band Edge	-21.52	-13	-8.52
		High (B66)	Extended	-19.64	-13	-6.64
		Low	Band Edge	-25.83	-13	-12.83
		Low	Extended	-23.69	-13	-10.69
	15MHz	High (B4)	Band Edge	-34.01	-13	-21.01
		High (B4)	Extended	-33.79	-13	-20.79
		High (B66)	Band Edge	-21.82	-13	-8.82
		High (B66)	Extended	-18.54	-13	-5.54
		Low	Band Edge	-26.25	-13	-13.25
		Low	Extended	-21.45	-13	-8.45
	10MHz	High (B4)	Band Edge	-32.21	-13	-19.21
		High (B4)	Extended	-26.96	-13	-13.96
		High (B66)	Band Edge	-21.62	-13	-8.62
LTE Band 66/4		High (B66)	Extended	-16.38	-13	-3.38
LIE Dallu 00/4		Low	Band Edge	-25.16	-13	-12.16
		Low	Extended	-22.78	-13	-9.78
		High (B4)	Band Edge	-26.89	-13	-13.89
	5MHz	High (B4)	Extended	-14.32	-13	-1.32
		High (B66)	Band Edge	-19.78	-13	-6.78
		High (B66)	Extended	-20.08	-13	-7.08
		Low	Band Edge	-25.00	-13	-12.00
		Low	Extended	-21.18	-13	-8.18
	3MHz	High (B4)	Band Edge	-30.68	-13	-17.68
		High (B4)	Extended	-31.26	-13	-18.26
		High (B66)	Band Edge	-18.34	-13	-5.34
		High (B66)	Extended	-17.14	-13	-4.14
		Low	Band Edge	-26.80	-13	-13.80
		Low	Extended	-15.66	-13	-2.66
	1 /\\/□→	High (B4)	Band Edge	-31.01	-13	-18.01
	1.4MHz	High (B4)	Extended	-32.23	-13	-19.23
		High (B66)	Band Edge	-17.76	-13	-4.76
		High (B66)	Extended	-25.47	-13	-12.47

Table 7-25. Conducted Band Edge Results – Ant2

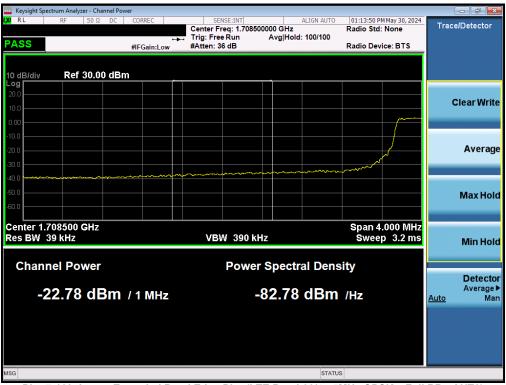
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	D 107	
1M2405140039-02.A3L	5/23/2024 - 6/13/2024	Portable Tablet	Page 127 of 186	
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LTE Band 66/4 – ANT2



Plot 7-168. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - ANT2)



Plot 7-169. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - ANT2)

FCC ID: A3LSMX828U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 100 of 100
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	ectrum Analyzer - Sv						
KN RL	RF 50 9	2 DC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	01:13:59 PM May 30, 2024 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type. Amo		
10 dB/div Log	Ref 25.00	dBm			Mkr1 1	.755 000 0 GHz -26.89 dBm	Auto Tune
- Trac	e 1 Pass	~~~~~~~					Center Fred 1.755000000 GHz
-5.00							Start Free 1.748750000 GH:
-15.0				1			Stop Fred 1.761250000 GH:
-35.0					······		CF Step 1.250000 MH <u>Auto</u> Mar
-55.0							Freq Offse 0 H
-65.0							Scale Type
Center 1.3 #Res BW	755000 GHz 120 kHz		#VBW	390 kHz	Sweep 1	Span 12.50 MHz .000 ms (1001 pts)	Log <u>Lir</u>
MSG					STATUS	3	

Plot 7-170. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK - Full RB - ANT2)



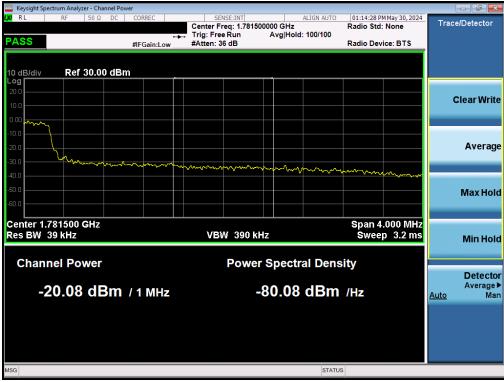
Plot 7-171. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dega 100 of 196	
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Plot 7-172. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK - Full RB - ANT2)



Plot 7-173. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB - ANT2)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 120 of 196
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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.

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

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.

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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
WCDMA-AWS	5MHz	GMSK	24.04	3.25	13	-9.75
	20MHz	QPSK	23.18	5.87	13	-7.13
		256QAM	19.57	6.95	13	-6.05
	15MHz	QPSK	23.19	5.94	13	-7.06
		256QAM	19.51	6.92	13	-6.08
	10MHz	QPSK	23.17	5.97	13	-7.03
LTE-B66-4		256QAM	19.48	6.81	13	-6.19
LIE-600-4	5MHz	QPSK	23.15	5.95	13	-7.05
		256QAM	19.51	6.83	13	-6.17
		QPSK	23.13	6.13	13	-6.87
	3MHz	256QAM	19.54	6.88	13	-6.12
	1.4MHz	QPSK	23.14	6.07	13	-6.93
	I.4IVI⊓Z	256QAM	19.49	7.03	13	-5.97

Table 7-26. Peak-Average Ratio Results – Ant1

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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
		π/2 BPSK	23.59	4.60	13	-8.40
	15MHz	QPSK	21.35	8.44	13	-4.56
		256QAM	17.80	8.62	13	-4.38
		π/2 BPSK	23.54	4.53	13	-8.47
NR-n70	10MHz	QPSK	21.33	8.26	13	-4.74
		256QAM	17.75	8.37	13	-4.63
		π/2 BPSK	23.62	4.77	13	-8.23
	5MHz	QPSK	21.40	8.30	13	-4.70
		256QAM	17.83	8.46	13	-4.54
		π/2 BPSK	23.34	4.93	13	-8.07
	40MHz	QPSK	20.91	8.52	13	-4.48
		256QAM	17.36	8.54	13	-4.46
		π/2 BPSK	23.61	4.59	13	-8.41
	35MHz	QPSK	21.37	8.45	13	-4.55
		256QAM	17.80	8.62	13	-4.38
		π/2 BPSK	23.36	4.43	13	-8.57
	30MHz	QPSK	20.98	8.41	13	-4.59
		256QAM	17.42	8.43	13	-4.57
	25MHz	π/2 BPSK	23.94	4.77	13	-8.23
		QPSK	21.62	8.39	13	-4.61
NR-n66		256QAM	18.01	8.63	13	-4.37
	20MHz	π/2 BPSK	24.11	4.59	13	-8.41
		QPSK	21.92	8.28	13	-4.72
		256QAM	18.32	8.50	13	-4.50
		π/2 BPSK	24.11	4.61	13	-8.39
	15MHz	QPSK	21.87	8.49	13	-4.51
		256QAM	18.40	8.55	13	-4.45
		π/2 BPSK	24.08	4.53	13	-8.47
	10MHz	QPSK	21.90	8.26	13	-4.74
		256QAM	18.31	8.33	13	-4.67
		π/2 BPSK	24.06	4.72	13	-8.28
	5MHz	QPSK	21.84	8.34	13	-4.66
		256QAM	17.89	8.38	13	-4.62

Table 7-27. Peak-Average Ratio Results – Ant1

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WCDMA AWS - ANT1

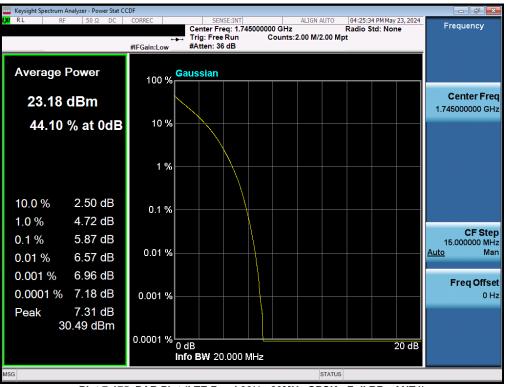
🔤 Keysight Spectrum Analyzer - Power Stat CCDF 💦 👘 💌				
IXIRL RF 50Ω DC	CORREC SENSE:INT ALIGN AUTO 04:55:30 PM May 23, 202 Center Freq: 1.732600000 GHz Radio Std: None → Trig: Free Run Counts:2.00 M/2.00 Mpt #IFGain:Low #Atten: 36 dB Counts:2.00 M/2.00 Mpt	Frequency		
Average Power	100 % Gaussian			
24.04 dBm		Center Freq 1.732600000 GHz		
52.55 % at 0dB	10 %			
	1 %	-		
10.0 % 1.73 dB 1.0 % 2.72 dB	0.1 %	-		
0.1 % 3.25 dB 0.01 % 3.50 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man		
0.001 % 3.62 dB 0.0001 % 3.68 dB	0.001 %	Freq Offset 0 Hz		
Peak 3.71 dB 27.75 dBm	0.0001 %			
	0.0001 % 0 dB 20 dE Info BW 5.0000 MHz			
ISG STATUS				

Plot 7-174. PAR Plot (WCDMA, Ch. 1413 - ANT1)

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LTE Band 66/4 – ANT1



Plot 7-175. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT1)

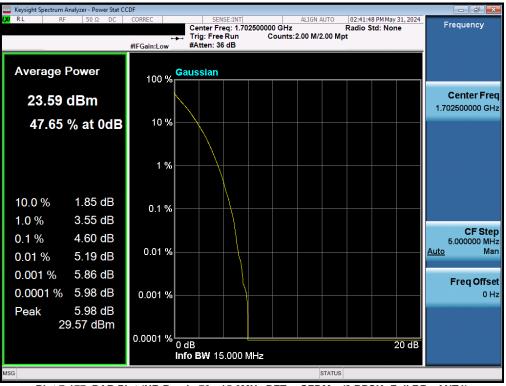


Plot 7-176. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT1)

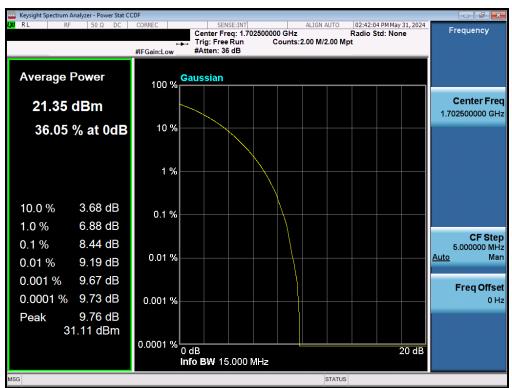
FCC ID: A3LSMX828U		PART 27 MEASUREMENT REPORT	
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NR Band n70 – ANT1



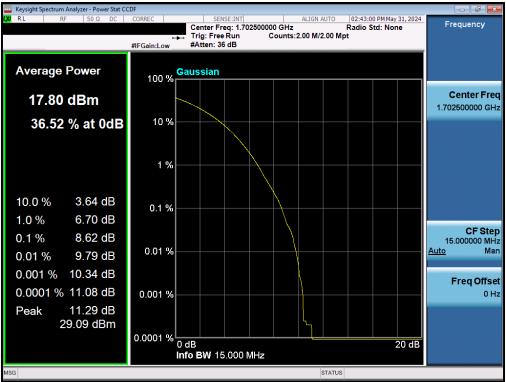
Plot 7-177. PAR Plot (NR Band n70 - 15.0MHz DFT-s-OFDM π/2 BPSK- Full RB - ANT1)



Plot 7-178. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM QPSK - Full RB - ANT1)

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Plot 7-179. PAR Plot (NR Band n70 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

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