

	t Spectrum Analyzer - S									
IXI RLT	RF 50	Ω AC (	CORREC	SEN	ISE:INT	#Avg Typ	e: RMS		Mar 15, 2022	Frequency
PASS			PNO: Fast 🖵 IFGain:Low	Trig: Free Atten: 10		0 ,1		TYF DE		Auto Tune
10 dB/div Log	v Ref 0.00 c	lBm					Mkr	1 18.97 -64.7	4 0 GHz 55 dBm	Auto Tune
	ace 1 Pass									Center Freq
-10.0										15.00000000 GHz
-20.0										
										Start Freq 10.000000000 GHz
-30.0										10.0000000000000
-40.0										Stop Freq
-50.0										20.00000000 GHz
-38.8										05.04+**
-60.0									1	CF Step 1.00000000 GHz
-70.0					<u> </u>					<u>Auto</u> Man
										Freq Offset
-80.0										0 Hz
-90.0										Quelo Tranc
										Scale Type
	0.000 GHz W 1.0 MHz		#VBW	3.0 MHz		S	weep 25	Stop 20	.000 GHz 0001 pts)	Log <u>Lin</u>
MSG							STATUS			
	112 Condu				Devel 0	2/4 0014		K 4 DD		honnol Ant1)

Plot 7-113. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Low Channel - Ant1)



Plot 7-114. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel - Ant1)

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🔤 Keysight Spectrum Analyzer - Swept SA					
LXU RLT RF 50Ω AC	CORREC SE	NSE:INT #Avg Type		Mar 15, 2022	Frequency
	PNO: Fast Trig: Free IFGain:Low Atten: 30		Mkr1 3.490	5 GHz 90 dBm	Auto Tune
10 dB/div Ref 20.00 dBm			-44.0		Center Freq 5.89000000 GHz
-10.0					<b>Start Freq</b> 1.78000000 GHz
-20.0					<b>Stop Freq</b> 10.000000000 GHz
-40.0		Samupt Marine page and an and a second		A	<b>CF Step</b> 822.000000 MHz <u>uto</u> Man
-60.0					Freq Offset 0 Hz
Start 1.780 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	s	Stop 10 weep 14.25 ms (1	.000 GHz 4	Scale Type
MSG			STATUS		

Plot 7-115. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel - Ant1)



Plot 7-116. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - Mid Channel – Ant1)

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	ectrum Analyzer - Swe									
IX/ RLT	RF 50 Ω	AC (	CORREC	SENS	E:INT	#Avg Type	:RMS		Mar 15, 2022	Frequency
PASS			PNO: Fast 🕞 IFGain:Low	Trig: Free Atten: 30		•		TYP		
10 dB/div Log	Ref 20.00 c	iBm					Mk	r1 1.61 -51.	7 0 GHz 67 dBm	Auto Tune
10.0 Trac	e 1 Pass									Center Freq 870.000000 MHz
-10.0										Start Freq 30.000000 MHz
-20.0										<b>Stop Freq</b> 1.710000000 GHz
-40.0									<b>1</b>	CF Step 168.000000 MHz <u>Auto</u> Man
-60.0			al. al <del>enti ang <sub>al</sub>agan ang ang ang ang ang ang ang ang ang</del>			ingt aggrad ginnet Migher		nging gul gernef stillige hier roop	ng ging ang sang sang sang sang sang sang san	Freq Offset 0 Hz
-70.0										Scale Type
Start 0.03 #Res BW			#VBW	3.0 MHz		ç	Sweep <u>2</u> .	_Stop 1.7 240 m <u>s (</u>	'100 GHz 3361 pts)	
MSG							STATUS			
			· .	· // TE 5	1.00/					

Plot 7-117. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant1)

Keysight Spectrum Analyzer - Swep										
X RLT RF 50Ω		IO: Fast 😱	Trig: Free Atten: 30		#Avg Typ	e: RMS	TRAC TYP	Mar 15, 2022 E 1 2 3 4 5 6 E A WWWW T A N N N N N	Fr	equency
10 dB/div Ref 20.00 d		ain:Low	Atten: 30	dB		M	(r1 3.54) -46.1	0 3 GHz 54 dBm		Auto Tune
Log Trace 1 Pass										Center Frec 0500000 GHz
.10.0									1.78 <sup>,</sup>	Start Fred
30.0									10.000	<b>Stop Fred</b> 0000000 GH:
40.0	•1								821 <u>Auto</u>	<b>CF Stej</b> .900000 MH Mai
-60.0	*****								I	F <b>req Offse</b> 0 H
-70.0										Scale Type
Start 1.781 GHz #Res BW 1.0 MHz		#VBW	3.0 MHz		s		l.25 ms (1	.000 GHz 6441 pts)	Log	Lir
MSG						STATU	5			

Plot 7-118. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager		
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	trum Analyzer -							
LXI RLT	RF 50	Ω AC	CORREC	SENSE	#Avg	Type: RMS	11:07:21 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Fast 🖵	Trig: Free R Atten: 10 dl			DET A NNNN	
						Mk	r1 19.842 5 GHz	Auto Tune
10 dB/div Log	Ref 0.00	dBm					-64.690 dBm	
Trace	1 Pass			Ĭ				Center Freq
-10.0								15.000000000 GHz
-20.0								Start Freq
-30.0								10.00000000 GHz
-40.0								Stop Freq
-50.0								20.00000000 GHz
-60.0								CF Step 1.00000000 GHz
-70.0				and the second design of the s	the second se			<u>Auto</u> Man
-80.0								Freq Offset 0 Hz
-90.0								Scale Type
-								Log <u>Lin</u>
Start 10.00 #Res BW 1			#VBW	3.0 MHz		Sweep 2	Stop 20.000 GHz 5.33 ms (20001 pts)	
MSG						STATU		

Plot 7-119. Conducted Spurious Plot (LTE Band 66/4 - 20MHz QPSK - 1 RB - High Channel - Ant1)

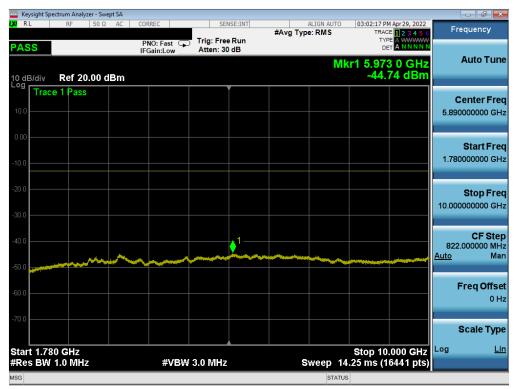
FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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### NR Band n66 – Ant1

	rum Analyzer - Sw										
XI RL	RF 50 S	2 AC	CORREC		SE:INT	#Avg Ty	ALIGN AUTO De: RMS	TRAC	Apr 29, 2022	Fre	quency
PASS			PNO: Fast 🕞 IFGain:Low	Trig: Free Atten: 30				TYF DE			
,							Μ	kr1 1.70	9 5 GHz		Auto Tune
Log	Ref 20.00	dBm		,				-48.	14 dBm		
Trace	1 Pass									С	enter Fred
10.0										870.	000000 MHz
0.00											
0.00											Start Fred
-10.0										30.	000000 MHz
-20.0											
-20.0											Stop Free 000000 GH;
-30.0										1.710	000000 GH2
											CF Step
-40.0									1/	168. <u>Auto</u>	000000 MH: Mar
-50.0										Auto	Wai
			and a safety and a s							F	req Offse
-60.0											0 H:
-70.0											
										S	Scale Type
Start 0.030	0 GHz			,				Stop 1.7	'100 GHz	Log	Lin
#Res BW 1	.0 MHz		#VBW	/ 3.0 MHz			Sweep	2.240 ms (	3361 pts)		
MSG							STATU	JS			

Plot 7-120. Conducted Spurious Plot (NR Band n66 -40.0MHz - 1 RB - Low Channel - Ant1)



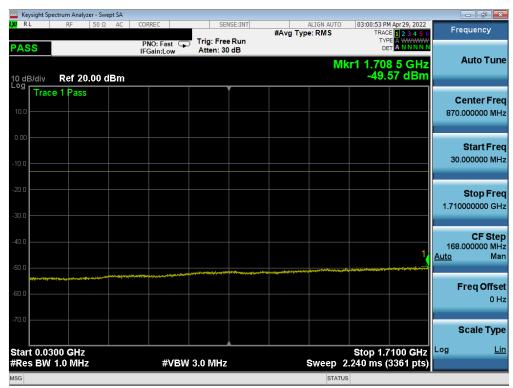
Plot 7-121. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Low Channel - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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	ctrum Analyzer - Sw										X
LXIRL	RF 50 Ω	AC CO	RREC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO		M Apr 29, 2022	Frequency	,
PASS			NO: Fast 🔾	Trig: Free				TYF			
FA55		IF	Gain:Low	Atten: 10	dB			-		Auto T	une
		_					MK	1 17.51	1 0 GHz 38 dBm	, allo i	ano
10 dB/div Log	Ref 0.00 dl	Зm						-57.0			
Trace	e 1 Pass				Í					Center F	rea
-10.0										15.000000000	
-20.0											
										Start F	
-30.0										10.000000000	GHz
-40.0										Stop F	rea
										20.000000000	
-50.0							. 1				
							∳'			CF S	ton
-60.0						the second second				1.000000000	
										<u>Auto</u>	Man
-70.0											
										Freq Of	fset
-80.0											0 Hz
-90.0										Scale T	vne
Start 10.0								Stop 20	.000 GHZ	Log	<u>Lin</u>
#Res BW	1.0 MHz		#VBV	V 3.0 MHz		s	weep 25	.33 ms (2	0001 pts)		
MSG							STATUS	;			

Plot 7-122. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Low Channel - Ant1)



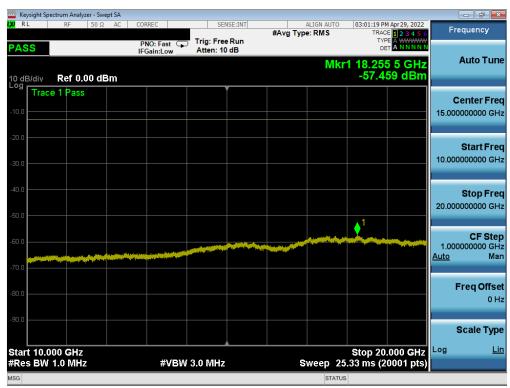
Plot 7-123. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT		
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	ectrum Analyzer - Swe										
LXU RL	RF 50 Ω	AC CO	RREC	SEN	NSE:INT	#Avg Typ	ALIGN AUTO		Apr 29, 2022	Freque	ncy
PASS			NO: Fast 🖵	Trig: Free Atten: 30				TYP			
1 400		IF	Gain:Low	Atten: 30	ав		8.41			Aut	o Tune
40 -10 -10	Dof 20.00 /	IB ma					IVI	(r1 5.95 -44	74 dBm		
10 dB/div	Ref 20.00 c	IBM									
Trac	e 1 Pass									Cent	er Freq
10.0										5.8900000	000 GHz
0.00										Sta	rt Frea
										1.7800000	
-10.0										1.7000000	00 0112
-20.0											p Freq
-30.0										10.000000	000 GHz
-30.0											
-40.0					. 1						F Step
		_				-				822.0000 Auto	00 MHz Man
-50.0	m	~~~~	-							Auto	Marr
										_	
-60.0										Freq	0 <b>ffset</b> 0 Hz
											0 H2
-70.0											
										Scal	е Туре
Start 1.78	0 GH7							Stop 10	.000 GHz	Log	Lin
#Res BW			#VBW	3.0 MHz		S	weep 14	.25 ms (1	6441 pts)		
MSG							STATUS				

Plot 7-124. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant1)



Plot 7-125. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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🤤 Keysight Spectrum Analyzer - Swept SA							
LXI RL RF 50Ω AC	CORREC	SENSE:INT	#Avg Typ	ALIGN AUTO e: RMS	02:59:21 PM / TRACE	Apr 29, 2022	Frequency
PASS		Free Run 1: 30 dB	• ,,		TYPE	A WWWWW A NNNNN	
	IFGain:Low Atter	1. 30 UB		ML	r1 1.666	5 CHz	Auto Tune
10 dB/div Ref 20.00 dBm					-49.7	0 dBm	
Log Trace 1 Pass		Ĭ					
							Center Freq
10.0							870.000000 MHz
0.00							
0.00							Start Freq
-10.0							30.000000 MHz
-20.0							Stop Freq
							1.710000000 GHz
-30.0							
							CF Step
-40.0						4	168.000000 MHz
-50.0							<u>Auto</u> Man
-50.0		nanging ang panging ang panging		an a			
-60.0							Freq Offset
							0 Hz
-70.0							
							Scale Type
Start 0.0300 GHz					Stop 1.71	00 GHz	Log <u>Lin</u>
#Res BW 1.0 MHz	#VBW 3.0 M	Hz		Sweep 2	.240 ms (3	361 pts)	
MSG				STATUS			

Plot 7-126. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant1)



Plot 7-127. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant1)

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	ectrum Analyzer - Sw										7 ×
LXU RL	RF 50 Ω	AC CC	RREC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS		M Apr 29, 2022	Frequen	су
PASS			NO: Fast 🖵	Trig: Free Atten: 10				TY	PE A WWWWW ET A N N N N N		
1,400			Gain:Low	Atten: 10	ав		Mice			Auto	Tune
40 10/10	Ref 0.00 di	3 800					INIKI	-58.1	1 5 GHz 71 dBm		
10 dB/div	e 1 Pass	<u>&gt;111</u>		,							
Traci										Center	r Freq
-10.0										15.00000000	0 GHz
-20.0										Start	t Freq
-30.0										10.00000000	
-30.0											
-40.0											_
										Stop 20.00000000	Freq
-50.0										20.00000000	IU GHZ
								<b></b> ♦ <sup>1</sup>			
-60.0							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			CF 1.00000000	Step
										Auto	Man
-70.0											
										FreqC	Offset
-80.0											0 Hz
-90.0											
-50.0										Scale	Туре
Start 10.0			-43 (1934)					Stop 20		Log	<u>Lin</u>
#Res BW	1.0 MHZ		#VBW	3.0 MHz		S			20001 pts)		
MSG							STATUS				

Plot 7-128. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant1)

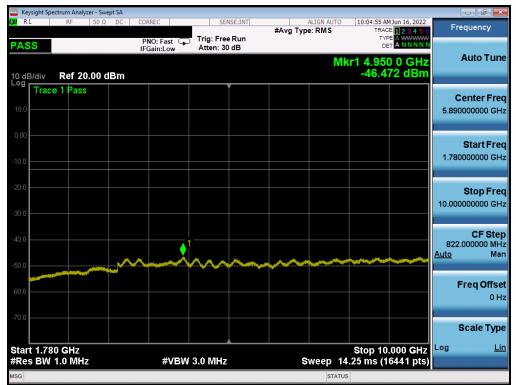
FCC ID: C3K1997		PART 27 MEASUREMENT REPORT		
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### Uplink CA LTE Band 66B/C - Ant1

	ectrum Analyzer - Swe										- 7 ×
LXI RL	RF 50 Ω		RREC		E:INT	#Avg Type	ALIGN AUTO E: RMS	TRAC	1 Jun 16, 2022 E 1 2 3 4 5 6 E A WWWWW	Fre	quency
PASS	Ref 20.00 d	IF	NO: Fast ↔ Gain:Low	Atten: 30			Mk	r1 1.70			Auto Tune
10.0 Trace	e 1 Pass										enter Freq 500000 MHz
-10.0											Start Fred 000000 MH2
-20.0									1		Stop Fred
-40.0										167.9 <u>Auto</u>	CF Step 900000 MH Mar
-60.0	anth-airt dhaanaartad fathaaf ahaa		in statement and a statement of	مىيۇر <mark>ىلەرىمەر</mark> ئەرەپىرىمەر يەكەر مىمەرىيە		hyakanan di kata kata kata kata kata kata kata kat	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ining and the second	F	r <b>eq Offse</b> 0 Hi
											cale Type
Start 0.03 #Res BW			#VBW	3.0 MHz		1	Sweep 2	Stop 1.7 .240 ms (	'090 GHz 3361 pts)	Log	Lin
MSG							STATUS				

Plot 7-129. Conducted Spurious Plot (ULCA LTE Band 66 Low Channel - Ant1)



Plot 7-130. Conducted Spurious Plot (ULCA LTE Band 66 Low Channel - Ant1)

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	ectrum Analyzer							- đ <mark>-</mark>
L <mark>XI</mark> RL	RF !	50 Ω DC	CORREC	SENSE:INT	ALI #Avg Type: I	IGN AUTO	10:05:36 AM Jun 16, 2022 TRACE 1 2 3 4 5	Frequency
PASS			PNO: Fast ↔ IFGain:Low	Trig: Free Run Atten: 10 dB				
						Mkr1	19.577 5 GHz	Auto Tune
10 dB/div Log	Ref 0.00	dBm					-62.408 dBm	
Trac	e 1 Pass							Center Freq
-10.0								15.00000000 GHz
-20.0								Start Freq
-30.0								10.000000000 GHz
-40.0								Stop Freq
-50.0								20.00000000 GHz
-30.0								
-60.0							<sup>1</sup>	CF Step 1.00000000 GHz
-							North Andrew Constanting of	Auto Man
-70.0								
-80.0								Freq Offset
00.0								0 Hz
-90.0								
								Scale Type
Start 10.0							Stop 20.000 GHz	Log <u>Lin</u>
#Res BW	1.0 MHz		#VBV	V 3.0 MHz	Sw		33 ms (20001 pts	
MSG						STATUS		

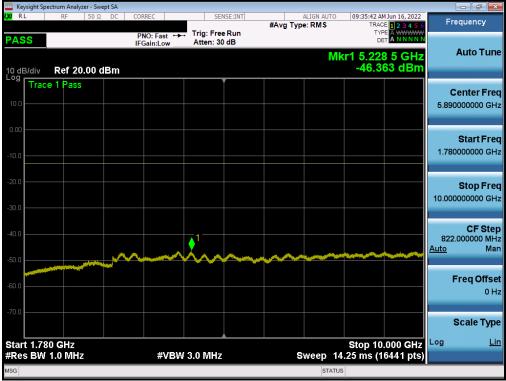
Plot 7-131. Conducted Spurious Plot (ULCA LTE Band 66 Low Channel - Ant1)

Keysight Spectrum Analyzer - Swept S					
X RL RF 50Ω D		SENSE:INT Trig: Free Run Atten: 30 dB	#Avg Type: RMS	0 09:34:35 AM Jun 16, 2022 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
10 dB/div Ref 20.00 dBr			I	/lkr1 1.705 5 GHz -53.054 dBm	Auto Tun
10.0 Trace 1 Pass					Center Fre 870.000000 MH
10.0					Start Fre 30.000000 Mi
30.0					<b>Stop Fre</b> 1.710000000 Gi
40.0				1	CF Ste 168.000000 M <u>Auto</u> M
50.0 <b>weiler diese von die en die</b>	an a	ana kani mang bila papa di kana majipadi sa sana ya Un			Freq Offs 0
70.0					Scale Ty
Start 0.0300 GHz ¢Res BW 1.0 MHz	#VBW 3	.0 MHz	Sweep	Stop 1.7100 GHz 2.240 ms (3361 pts)	Log <u>L</u>
ISG			STA	TUS	

Plot 7-132. Conducted Spurious Plot (ULCA LTE Band 66 Mid Channel - Ant1)

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Plot 7-133. Conducted Spurious Plot (ULCA LTE Band 66 Mid Channel - Ant1)



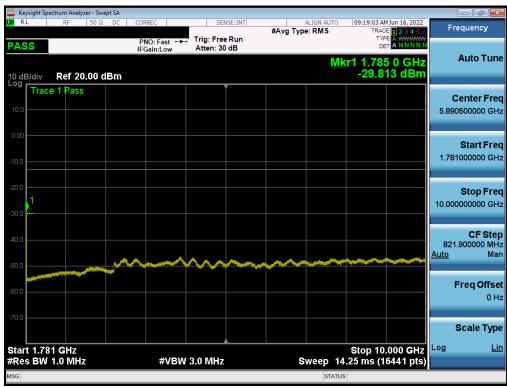
Plot 7-134. Conducted Spurious Plot (ULCA LTE Band 66 Mid Channel - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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	ght Spectrum												- 7 -
LXI RL	R	F 50 S	2 DC	CORREC		SEI	NSE:INT	#Avg Type	ALIGN AUTO e: RMS	TRAC	1 Jun 16, 2022 E 1 2 3 4 5 6	Fre	quency
PASS	5			PNO: Fa IFGain:Le	st ↔→ ow	Trig: Free Atten: 30				DE			Auto Tune
10 dB/	div Re	f 20.00	dBm						Mk	r1 1.68 -53.4	7 0 GHz 58 dBm		Auto Tune
	Trace 1	Pass				· · · · · · · · · · · · · · · · · · ·						с	enter Freq
10.0												870.	000000 MHz
0.00													
-10.0													Start Freq 000000 MHz
-10.0													
-20.0													Stop Freq
-30.0												1.710	000000 GHz
-40.0 —													CF Step
												168. <u>Auto</u>	000000 MHz Man
-50.0									Single and the second second				
-60.0		مىرىھارىسىرىنچىيىن			an na initian							F	req Offset 0 Hz
-70.0													
												S	cale Type
	0.0300					0.0.0411-				Stop 1.7	100 GHz	Log	<u>Lin</u>
#Res	#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 2.240 ms (3361 pts)												
		- 1 7 40			1.0							A (A)	

Plot 7-135. Conducted Spurious Plot (ULCA LTE Band 66 High Channel - Ant1)



Plot 7-136. Conducted Spurious Plot (ULCA LTE Band 66 High Channel - Ant1)

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— Keysight Spectrum Analyzer - :								
<b>LXI R.L RF 50</b>	Ω DC CO	RREC	SENSE:1	INT #Avg Typ	ALIGN AUTO e: RMS	09:20:38 AM J TRACE	un 16, 2022	Frequency
PASS		NO: Fast ↔ Gain:Low	Trig: Free Ru Atten: 10 dB	un e yr		TYPE DET	A WWWWW A N N N N N	Auto Tune
10 dB/div Ref 0.00	dBm				Mkr'	1 19.488 -62.39	0 GHz 8 dBm	Auto Tune
Trace 1 Pass								Center Freq
-10.0								15.000000000 GHz
-20.0								Start Freq
-30.0								10.00000000 GHz
-40.0								Stop Freq
-50.0								20.000000000 GHz
-60.0							<b>1</b>	CF Step
	-							1.000000000 GHz <u>Auto</u> Man
-70.0								Freq Offset
-80.0								0 Hz
-90.0								Scale Type
Start 10.000 GHz						Stop 20.0	IND GH7	Log <u>Lin</u>
#Res BW 1.0 MHz		#VBW	3.0 MHz	s	weep 17.	.33 ms (20	001 pts)	
MSG					STATUS			

Plot 7-137. Conducted Spurious Plot (ULCA LTE Band 66 High Channel - Ant1)

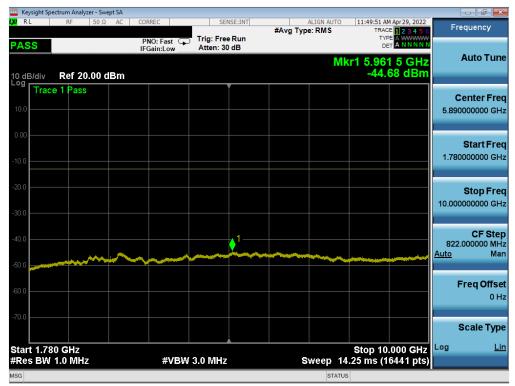
FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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### NR Band n66 – Ant4

Keysight Spectrum Analyzer - Swept					
<mark>X/</mark> R L RF 50 Ω	AC CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast 😱 IFGain:Low	Trig: Free Run Atten: 30 dB		DET A NNNN	
			М	kr1 1.709 5 GHz -48.75 dBm	Auto Tune
10 dB/div Ref 20.00 dB	sm	• • •		40.10 abii	
					Center Freq
10.0					870.000000 MHz
0.00					
0.00					Start Fred
-10.0					30.000000 MHz
-20.0					Stop Fred
-30.0					1.710000000 GH:
40.0					CF Step 168.000000 MH
				1	<u>Auto</u> Mar
50.0		مىرۇنىلىرىيە بېرىمىرىك <sup>ى ر</sup> ىدۇرىيە بار مەسىلىكە بىرى			
60.0					Freq Offse
					0 H:
70.0					
					Scale Type
Start 0.0300 GHz				Stop 1.7100 GHz	Log <u>Lir</u>
#Res BW 1.0 MHz	#VBW :	B.0 MHz	-	2.240 ms (3361 pts)	
MSG			STAT	JS	





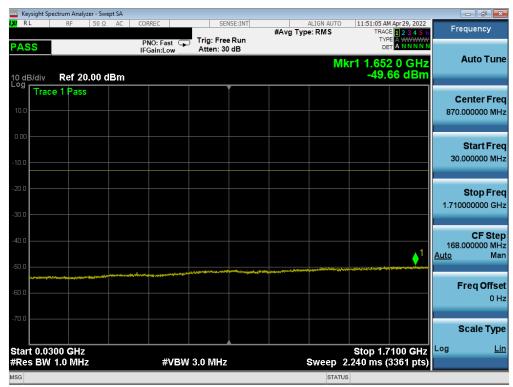
Plot 7-139. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Low Channel - Ant4)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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	ectrum Analyzer - Sw									
LXI RL	RF 50 Ω	AC CO	RREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO e: RMS		M Apr 29, 2022	Frequency
PASS			NO: Fast 🔾	Trig: Free Atten: 10		• //		TYF		
		11	Gain:Low	Atten. 10	ub		Mice	4 40 00	1 5 GHz	Auto Tune
10 dB/div	Ref 0.00 dl	Bm					INIKI	-57.	91 dBm	
Log	e 1 Pass			` `						
										Center Free
-10.0										15.00000000 GH:
-20.0										
20.0										Start Free
-30.0										10.00000000 GH:
-40.0										Stop Free
										20.000000000 GH
-50.0								<b>1</b>		
-60.0							de ser de se			CF Step
-60.0						and the second second				1.000000000 GH: Auto Mar
-70.0										Auto Mai
										<b>F O</b> ff <b>v</b>
-80.0										Freq Offse 0 Hi
-90.0										Scale Tree
										Scale Type
Start 10.0								Stop 20	.000 9112	Log <u>Lir</u>
#Res BW	1.0 MHz		#VBW	/ 3.0 MHz		S	weep 25	.33 ms (2	0001 pts)	
MSG							STATUS			

Plot 7-140. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Low Channel - Ant4)



Plot 7-141. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant4)

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🔤 Keysight Spectrum /						
LXIRL RF	50 Ω AC	CORREC	SENSE:INT	ALIGN AUT #Avg Type: RMS	0 11:51:22 AM Apr 29, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		PNO: Fast 😱	Trig: Free Run Atten: 30 dB		TYPE A WWWWW	
1400		IFGain:Low	Atten: 30 dB			Auto Tune
	f 20.00 dBm			I	Wkr1 6.463 0 GHz -44.609 dBm	
10 dB/div Rel			<b>*</b>			
Trace i P	ass					Center Freq
10.0						5.89000000 GHz
0.00						Start Freq
						1.780000000 GHz
-10.0						
-20.0						
-20.0						Stop Freq
-30.0						10.00000000 GHz
-40.0						CF Step 822.000000 MHz
						Auto Man
-50.0	~~~~~	<u> </u>				
						Freq Offset
-60.0						0 Hz
-70.0						Scale Type
						Scale Type
Start 1.780 GH	z				Stop 10.000 GHz	Log <u>Lin</u>
#Res BW 1.0	MHz	#VBW	3.0 MHz	Sweep	14.25 ms (16441 pts)	
MSG				STA	TUS	

Plot 7-142. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant4)



Plot 7-143. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - Mid Channel - Ant4)

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	ectrum Analyzer - Swept						
LXI RL	RF 50 Ω	AC CORREC	SENSE:INT	ALIGN #Avg Type: R		Apr 29, 2022	Frequency
PASS		PNO: Fast 😱	Trig: Free Run Atten: 30 dB	• ,,	TYP		
		IFGain:Low	Atten: 50 dB		Mkr1 1.66		Auto Tune
10 dB/div	Ref 20.00 dB	m			-49.	57 dBm	
Log Trac	e 1 Pass		Ĭ				<b>0</b>
10.0							Center Freq 870.000000 MHz
10.0							870.000000 MH2
0.00							
							Start Freq
-10.0							30.000000 MHz
-20.0							Stop Freq
-30.0							1.710000000 GHz
00.0							
-40.0							CF Step 168.000000 MHz
						_1	Auto Man
-50.0			والموادية ويتأور مواند ويؤو فالمراجع والمراجع والمراجع والمراجع	۲۰۰ بندان می مادیا (میراند تاریخ می موجود می موجود و مع			
<del>( کل ۳ کار س<sup>ر</sup> م</del> نید د							Freq Offset
-60.0							0 Hz
-70.0							
							Scale Type
							Log <u>Lin</u>
Start 0.03 #Res BW		#VBW	3.0 MHz	Swe	stop 1./ ep 2.240 ms (		
MSG		<i>"•</i>		0	STATUS	oor Phro/	

Plot 7-144. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant4)



Plot 7-145. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant4)

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RL         RF         50 Ω         AC         CORREC         SENSE:INT         ALIGN AUTO         11:52:58 AM Apr 29, 2022           #Avg Type: RMS         TRACE         2         2         45 are         Frequent           PNO: Fast         Trig: Free Run         TYPE R         TYPE R         TYPE R         TYPE R	cv
TYPE A WWWWW	~y
PASS IFGainLow Atten: 10 dB DET ANNNNN	
IFGall.LOW / Recht To de	Tune
10 dB/div Ref 0.00 dBm -57.826 dBm	
Trace 1 Pass	r Erog
10.0 <b>Center</b> 15.0000000 15.0000000	
20.0	
10.0000000	t Freq
-40.0	
Stop	Freq
.50.0	00 GHz
-60.0	Step
Auto	Man
80.0 Freq C	Offset
	0 Hz
90.0	
Scale	Туре
Start 10.000 GHz Stop 20.000 GHz	<u>Lin</u>
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 25.33 ms (20001 pts)	
ASG	

Plot 7-146. Conducted Spurious Plot (NR Band n66 - 40.0MHz - 1 RB - High Channel - Ant4)

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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  $\geq$  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 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 log<sub>10</sub>(P) = -35dBm in a 6.25kHz bandwidth.

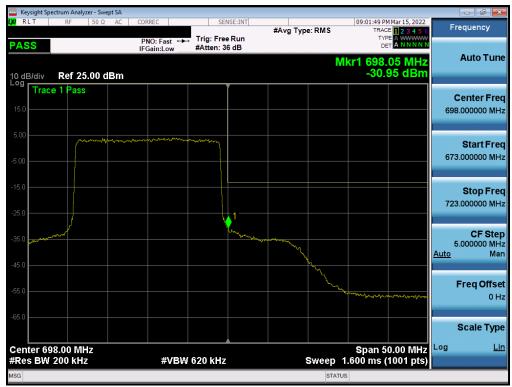
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# LTE Band 71 – Ant1

	pectrum Analy:			000050								_	
X/RLT	RF	50 Ω	AC	CORREC			NSE:INT	#Avg Typ	e: RMS	TRA	M Mar 15, 2022 CE 1 2 3 4 5 6	Fi	requency
PASS				PNO: F IFGain:	ast ↔ Low	Trig: Fre #Atten: 3				D	PE A WWWWW ET A N N N N N		
									N	lkr1 662	.95 MHz		Auto Tun
10 dB/div Log	Ref 25		m					_		-33.	32 dBm		
Tra	ce 1 Pass											(	Center Fre
15.0												663	8.000000 MH
5.00													
5.00							mm	mon	mon	manning			Start Fre
-5.00							ļ					638	8.000000 MH
-15.0													Stop Fre
-25.0												688	3.000000 MH
-20.0							1						
-35.0												F	CF Ste 5.000000 MH
					,	June					Service Source	Auto	Ma
-45.0					1								
-55.0													Freq Offs
m	monto	and and a start of the start of	weel and a start of the	~~~~~									0 H
-65.0													
													Scale Typ
	63.00 MH									Span 5	0.00 MHz	Log	Li
	/ 200 kHz	Z			#VBW	680 kHz					(1001 pts)		
ASG									STATU	JS			

Plot 7-147. Lower Band Edge Plot (LTE Band 71 - 20MHz QPSK - Full RB - Ant1)



Plot 7-148. Upper Band Edge Plot (LTE Band 71 - 20MHz QPSK - Full RB - Ant1)

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	ctrum Analyze											
X/RLT	RF	50 Ω /	AC	CORREC		S	ENSE:INT	#Avg Typ	e: RMS	TRA	CE 1 2 3 4 5 6	Frequency
PASS				PNO: F IFGain:I	ast ↔ ₋ow	Trig: Fro #Atten:		0 ,1		T) C		Auto Tur
I0 dB/div	Ref 25.	00 dBi	m						Mkr	1 663.00 -34	0 0 MHz .76 dBm	Auto Tun
.og Trace	e 1 Pass						Ĭ					Center Fre
15.0												663.000000 MH
5.00												
5.00							m	~~~~	www.	money		Start Fre
5.00												644.250000 MH
15.0												Oten En
												Stop Fre 681.750000 MH
25.0										¥		
35.0						and	<b>∮</b> ′				<u> </u>	CF Ste 3.750000 MH
					N	and and a						Auto Ma
45.0					p a de la companya de							
55.0				مر مسم کسر								Freq Offs 0 H
A Constraints	mary Arton	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~	~								U F
65.0												Scale Typ
enter 66	3 00 MH	,								Snap	37.50 MHz	Log L
Res BW					#VBW	510 kH:	z		Sweep	span . 1.800 ms	(1001 pts)	
SG									STATU			

Plot 7-149. Lower Band Edge Plot (LTE Band 71 - 15MHz QPSK - Full RB - Ant1)



Plot 7-150. Upper Band Edge Plot (LTE Band 71 - 15MHz QPSK - Full RB - Ant1)

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	ectrum Analyzer -								
X/RLT	RF 5	0Ω AC	CORREC	SENSE		g Type: RMS	09:05:26 PM TRACE	Mar 15, 2022 1 2 3 4 5 6	Frequency
PASS			PNO: Fast ↔ IFGain:Low	, Trig: Free R #Atten: 36 d	un	•	TYPE DET	A WWWWW A N N N N N	
0 dB/div	Ref 25.0	0 dBm				MI	kr1 662.97 -35.8	75 MHz 9 dBm	Auto Tun
-og Trac	e 1 Pass								Center Fre 663.000000 M⊦
5.00					, mary and a second	and the second	manny		Start Fre 650.500000 M⊦
25.0									Stop Fre 675.500000 M⊦
45.0				1				han a factor	CF Ste 2.500000 MH <u>Auto</u> Ma
55.0 <u> </u>			~~~~~~						Freq Offs 0 ⊦
65.0									Scale Typ
enter 66 Res BW	3.00 MHz 100 kHz		#VBM	i 300 kHz		Sweep	Span 25 3.133 ms (1	.00 MHz 001 pts)	Log <u>L</u>
SG						STAT	us		

Plot 7-151. Lower Band Edge Plot (LTE Band 71 - 10MHz QPSK - Full RB - Ant1)



Plot 7-152. Upper Band Edge Plot (LTE Band 71 - 10MHz QPSK - Full RB - Ant1)

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Keysight Spectrum Analyzer - Swept SA					
LXX RLT RF 50Ω AC	CORREC	SENSE:INT	#Avg Type: RMS	09:06:31 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS 10 dB/div Ref 25.00 dBm	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 36 dB	Mkr	TYPE A WWWWW DET A NNNNN 1 662.987 5 MHz -27.26 dBm	Auto Tune
Log Trace 1 Pass					Center Freq 663.000000 MHz
-5.00					Start Freq 656.750000 MHz
-15.0		1			<b>Stop Freq</b> 669.250000 MHz
-35.0	unser M	marcana		hum	CF Step 1.250000 MHz <u>Auto</u> Man
-55.0					Freq Offset 0 Hz
-65.0					Scale Type
Center 663.000 MHz #Res BW 100 kHz	#VBW :	300 kHz	Sweep	Span 12.50 MHz 1.600 ms (1001 pts)	Log <u>Lin</u>
MSG			STAT		

Plot 7-153. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK - Full RB - Ant1)



Plot 7-154. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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# LTE Band 12 – Ant1

Keysight Spectrum Analyzer - Swept SA RLT RF 50 Ω AC	CORREC SENSI	E-INT	10:14:58 PM Mar 15, 2022	
	PNO: Fast ↔ Trig: Free F	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
ASS	IFGain:Low #Atten: 36	dB	DETANNNN	Auto Tu
dB/div Ref 25.00 dBm		M	lkr1 698.975 MHz -31.48 dBm	Adio Tu
Trace 1 Pass				Center Fr
5.0				699.000000 M
.00				
		marcant sur war the work	m	Start Fr
.00				686.500000 N
5.0				Stop Fi 711.500000 M
5.0				711.500000 1
	· · · · · · · · · · · · · · · · · · ·		1	CF St
5.0			hann	2.500000 N Auto
5.0	anna anna anna anna anna anna anna ann			Auto
and the second				Freq Off
5.0				0
5.0				
				Scale Ty
enter 699.00 MHz			Span 25.00 MHz	Log
Res BW 100 kHz	#VBW 300 kHz	Sweep	3.133 ms (1001 pts)	
G		STA	TUS	

Plot 7-155. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB - Ant1)



Plot 7-156. Upper Band Edge Plot (LTE Band 12 - 10MHz QPSK - Full RB - Ant1)

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Keysight Spectrum										_	
L <mark>XI</mark> RLT P	RF 50 Ω	AC CC	ORREC	SEI	ISE:INT	#Avg Type	e: RMS		Mar 15, 2022	Fi	requency
PASS			PNO: Wide ↔ Gain:Low	, Trig: Free #Atten: 3		0 ,1		TYP			Auto Tune
Log	ef 25.00 dl	Bm						-27.	61 dBm		
Trace 1	Pass										Center Freq
15.0						n				699	9.000000 MHz
5.00											Start Freq
-5.00										693	3.000000 MHz
-15.0					 						Stop Freq
-25.0				(	1				L L	705	5.000000 MHz
-35.0											CF Step
-45.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mm	~~~					han	Auto	I.200000 MHz Man
www	~~~~										Freq Offset
-55.0											0 Hz
-65.0											Scale Type
Center 699.00 #Res BW 100			#VBW	300 kHz		1	Sweep 1	Span 1 1.533 ms (	2.00 MHz 1001 pts)	Log	Lin
MSG							STATU				

Plot 7-157. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK - Full RB - Ant1)



Plot 7-158. Upper Band Edge Plot (LTE Band 12 - 5MHz QPSK - Full RB - Ant1)

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	ctrum Analyzer						
X/RLT	RF 5	OΩ AC	CORREC	SENSE:INT	#Avg Type: RMS	10:11:45 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB		TYPE A WWWW DET A NNNNN	A. (
10 dB/div	Ref 25.0	0 dBm			MI	kr1 699.000 MHz -20.05 dBm	Auto Tune
Trace	e 1 Pass			Ĭ			Center Fred
15.0							699.000000 MHz
5.00							
-5.00							Start Fred 695.000000 MH;
15.0							Stop Free 703.000000 MH;
25.0							
35.0							CF Step 800.000 kH;
45.0	<u></u>	, market and the second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				<u>Auto</u> Mar
55.0							Freq Offse
							0 H:
65.0							Scale Type
Center 69		z				Span 8.000 MHz	Log <u>Lir</u>
#Res BW	100 kHz		#VBW	300 kHz		1.000 ms (1001 pts)	
ISG					STAT	US	

Plot 7-159. Lower Band Edge Plot (LTE Band 12 - 3MHz QPSK - Full RB - Ant1)



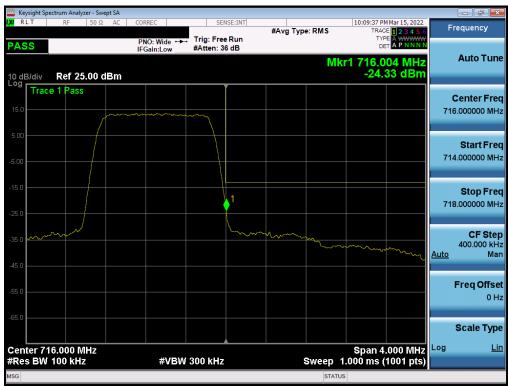
Plot 7-160. Upper Band Edge Plot (LTE Band 12 - 3MHz QPSK - Full RB - Ant1)

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	ectrum Analyzer										_	
X RLT	RF 5	50 Ω AC	CORREC		SEN	ISE:INT	#Avg Typ	e: RMS		M Mar 15, 2022	F	requency
PASS			PNO: Wid IFGain:Lo		Trig: Free #Atten: 30				TY D			
10 dB/div	Ref 25.0	0 dBm						Mk	r1 698.9 -25.	96 MHz 02 dBm		Auto Tune
Log Trac	e 1 Pass											<b>Center Freq</b> 9.000000 MHz
-5.00											69	Start Freq 7.000000 MHz
-15.0						1					70	Stop Freq 1.000000 MHz
-35.0		~~~~	~~~~	Sec.	m					~~~~	<u>Auto</u>	CF Step 400.000 kHz Man
-55.0												Freq Offset 0 Hz
-65.0												Scale Type
Center 69 #Res BW		Z	#\	VBW :	300 kHz			Sweep 1	Span 4 .000 ms	.000 MHz (1001 pts)	Log	<u>Lin</u>
MSG								STATUS				
	DI-17.4				- Dist							

Plot 7-161. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - Ant1)



Plot 7-162. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB - Ant1)

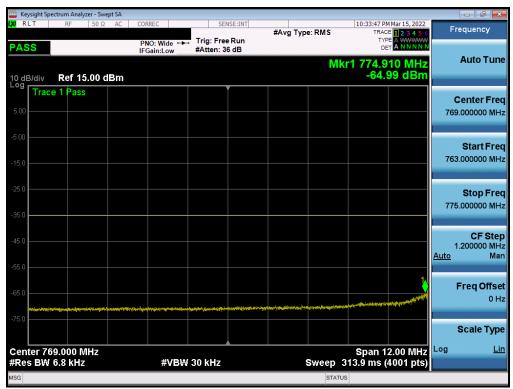
FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	
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# LTE Band 13 – Ant1

	trum Analyzer - Swept S	A				
RLT	RF 50 Ω A	C CORREC	SENSE:INT	#Avg Type: RMS	10:33:03 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		PNO: Fast ++ IFGain:Low	Trig: Free Run #Atten: 36 dB		TYPE A WWWW DET A NNNNN	
0 dB/div	Ref 25.00 dBr	n		Μ	kr1 776.98 MHz -23.61 dBm	Auto Tur
.og	1 Pass		Ť			Center Fre
15.0						777.000000 Mi
5.00				Marine Marin	mar	Start Fr
5.00						767.000000 MI
5.0						Stop Fr
25.0			<u></u>			787.000000 M
			mand			
15.0						CF St 2.000000 M
						<u>Auto</u> M
15.0						
i5.0			/			Freq Offs
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	munim	and the state of the second state of the				0
6.0						Scale Ty
enter 773 Res BW 1		#\/B\//	300 kHz	Sween	Span 20.00 MHz 2.533 ms (1001 pts)	Log <u>l</u>
SG DV	FOO KHZ	# V D V V	500 MHZ	SWEEP		

Plot 7-163. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK - Full RB - Ant1)



Plot 7-164. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-165. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK - Full RB - Ant1)



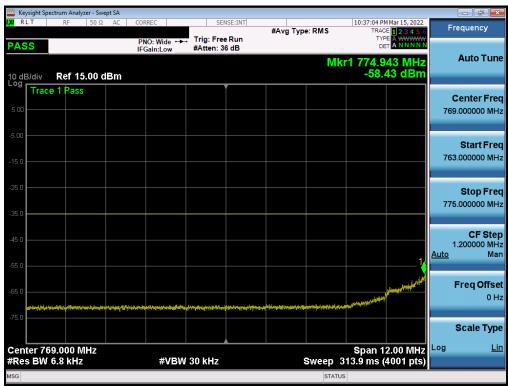
Plot 7-166. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Man	
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 2	22
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	rum Analyzer - Sw										
LXI RLT	RF 50 Ω	AC	CORREC	SENS	SE:INT	#Avg Type	e: RMS		Mar 15, 2022	Fi	requency
PASS			PNO: Wide	Trig: Free #Atten: 36				TYP DE			Auto Tune
Log	Ref 25.00 (	dBm					Mk	r1 774.9 -47.0	96 MHz 02 dBm		Auto Tune
Trace	1 Pass			Ĭ						(	Center Freq
15.0										777	7.000000 MHz
5.00					pm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	many			
-5.00										77	Start Freq 0.000000 MHz
-5.00											
-15.0					<u> </u>						Stop Freq
-25.0				/						783	3.000000 MHz
									Longer and the second s		CF Step
-35.0			.1 /							<u>Auto</u>	I.200000 MHz Man
-45.0			- Inder								
-55.0		~~~	~~~~								Freq Offset
~~~~~	m										0 Hz
-65.0											Scale Type
Center 777	000 MHz							Snan 1	2 00 MHz		Lin
#Res BW 1			#VBW	300 kHz			Sweep 1	.533 ms (	2.00 MHz 1001 pts)		
MSG							STATUS				

Plot 7-167. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - Ant1)



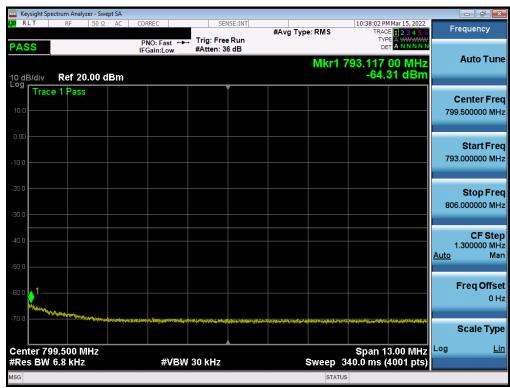
Plot 7-168. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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Keysight Sp	ectrum Analyze RF	r - Swept 50 Ω		CORREC			ENSE:INT			10,27,21 0	PM Mar 15, 2022		
	KF	20.25	AL		ide ↔			#Avg Ty	pe: RMS	TRA TY	CE 1 2 3 4 5 6 PE A WWWW	Fr	equency
PASS				IFGain:L		#Atten:					A N N N N N		Auto Tun
I0 dB/div	Ref 25.0	00 dB	m						M	(r1 787.) -25.	012 MHz 73 dBm		Auto Tun
og Trac	e 1 Pass						Ĭ					c	enter Fre
15.0												787	.000000 MH
5.00	~~~~	~~~~	<u>∕~~~~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<b>^~~~</b>								
5.00												781	Start Fre .000000 MH
3.00													
15.0													Stop Fre
25.0							¥1					793	.000000 MH
www	$\sim$						m	m					CF Ste
35.0									hour	my		1 <u>Auto</u>	.200000 MH Ma
45.0										- ~~	~~.		
55.0											~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	I	F <mark>reqOffs</mark> e ⊣0
05.0													UF
65.0													Scale Typ
Lenter 78	7.000 MH	lz								Span '	2.00 MHz	Log	Li
Res BW				#	¢VBW	300 kH	z		Sweep	1.533 ms	2.00 MHz (1001 pts)		
ISG									STATU	JS			

Plot 7-169. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - Ant1)



Plot 7-170. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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# NR Band n71 – Ant1

🚾 Keysight Spectrum Analyzer - Swept SA 🚽				
XIRL RF 50Ω DC	CORREC SENSE	INT ALIGN AUTO #Avg Type: RMS	12:47:34 PM Mar 20, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast +++ Trig: Free R IFGain:Low #Atten: 36 d	un		
10 dB/div Ref 25.00 dBm		N	lkr1 662.95 MHz -31.70 dBm	Auto Tun
Trace 1 Pass	Ĭ			Center Fre
15.0				663.000000 MH
5.00				
	C	- April and the second s	mmm	Start Fre 638.000000 MH
-5.00				638.00000 MH
-15.0				Stop Fre
-25.0				688.000000 MH
-25.0	<sup>1</sup>		<b>A</b> .	
-35.0			- mon	CF Ste 5.000000 M⊢
-45.0	Mand			<u>Auto</u> Ma
				FreqOffse
-55.0 •*****				0 H
-65.0				
				Scale Typ
Center 663.00 MHz #Res BW 200 kHz	#VBW 680 kHz	Sween	Span 50.00 MHz 1.000 ms (1001 pts)	Log <u>Li</u>
MSG		SMGCP		

Plot 7-171. Lower Band Edge Plot (NR Band n71 – 20.0MHz - Full RB - Ant1)



Plot 7-172. Upper Band Edge Plot (NR Band n71 - 20.0MHz - Full RB - Ant1)

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Plot 7-173. Lower Band Edge Plot (NR Band n71 - 15.0MHz - Full RB - Ant1)



Plot 7-174. Upper Band Edge Plot (NR Band n71 - 15.0MHz - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Plot 7-175. Lower Band Edge Plot (NR Band n71 - 10.0MHz - Full RB - Ant1)



Plot 7-176. Upper Band Edge Plot (NR Band n71 - 10.0MHz - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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Plot 7-177. Lower Band Edge Plot (NR Band n71 - 5.0MHz - Full RB - Ant1)



Plot 7-178. Upper Band Edge Plot (NR Band n71 - 5.0MHz - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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## LTE Band 66/4 – Ant1

Keysight Spectrum Analyzer - Swept SA				
RLT RF 50Ω AC		NSE:INT #Avg Type	11:13:55 PM Mar 15, 20 E: RMS TRACE 1 2 3 4	5 6 Frequency
ASS	PNO: Fast +++ Trig: Fre IFGain:Low #Atten: 3			
0 dB/div Ref 25.00 dBm			Mkr1 1.709 96 GF -26.35 dB	iz Auto Tun m
og Trace 1 Pass		Ť		Center Fre
15.0				1.710000000 GH
5.00			- mar mar and a second and a second a s	
5.00				Start Fre 1.690000000 G⊦
5.00				
15.0				Stop Fre
25.0		1		1.730000000 GH
	when any many and a second and a second			CF Ste
35.0 January and				4.000000 MH Auto Ma
45.0				
55.0				FreqOffse
25.0				0 H
65.0				Scale Typ
enter 1.71000 GHz			Span 40.00 M	IZ Log Li
Res BW 470 kHz	#VBW 1.6 MHz	S	Sweep 1.000 ms (1001 p	ts)

Plot 7-179. Lower Band Edge Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - Ant1)



Plot 7-180. Lower Extended Band Edge Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:		Daga 112 of 222			
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		ctrum Analyz												
<b>l,XI</b> RI	LT	RF	50 Ω	AC	CORRE	C		SENSE:INT	#Avg Typ	e: RMS		M Mar 15, 2022	F	requency
<b>PAS</b>		Ref 25	00 d	Bm		:Fast ↔ in:Low		Free Run 1: 36 dB			۲۷۱ ס 1.755 r1			Auto Tune
15.0		1 Pass		ملاحمه مرب	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ሴዮቃ <b>ዲዮኤ~ፈ</b> ላላ								<b>Center Freq</b> 5000000 GHz
5.00 -5.00													1.73	Start Freq 5000000 GHz
-15.0 -25.0								11					1.77	<b>Stop Freq</b> 5000000 GHz
-35.0 -45.0								har	and and a state of the second s	ely marine	www.grouteg	and the formation of the second	Auto	CF Step 4.000000 MHz Man
-55.0														Freq Offset 0 Hz
-65.0														Scale Type
		′5500 G 470 kHz				#VB\	N 1.6 MI	Hz		Sweep	Span 4 1.000 ms (	0.00 MHz (1001 pts)	Log	Lin
MSG										STAT	us			

Plot 7-181. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK - Full RB - Ant1)



Plot 7-182. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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Keysight Spectrum Ar						
XIRLT RF	50 Ω AC	CORREC	SENSE:INT	#Avg Type: RMS	11:14:57 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		PNO: Fast +++	Trig: Free Run #Atten: 36 dB	• 1		
10 dB/div Ref	25.00 dBn	1		Mk	r1 1.780 04 GHz -24.89 dBm	Auto Tune
Trace 1 Pa	SS		Ĭ			Center Fred
5.00	alternation and the second		www.			1.780000000 GH:
						Start Fred 1.760000000 GHz
5.00						
15.0			1			<b>Stop Free</b> 1.800000000 GH
.25.0 1			and many	and the source and the second		CF Ster
35.0					man man	4.000000 MH <u>Auto</u> Mar
45.0						Freq Offse
-55.0						он
65.0						Scale Type
Center 1.78000 #Res BW 470 k		#VBW	1.6 MHz	Sweep	Span 40.00 MHz 1.000 ms (1001 pts)	Log <u>Lir</u>
ASG				STAT		

Plot 7-183. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK - Full RB - Ant1)



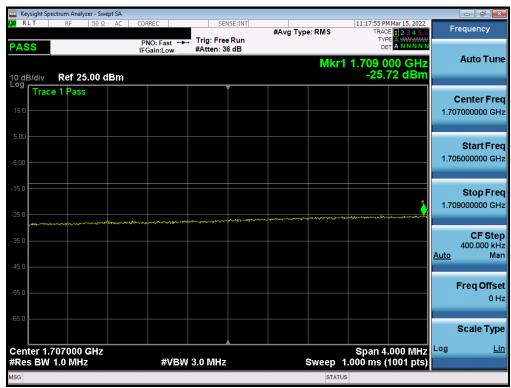
Plot 7-184. Channel Edge Plot (LTE Band 66 - 20MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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Keysight Spectrum Analyzer - Swept SA					
<mark>X/RLT</mark> RF 50Ω AC	CORREC	SENSE:INT	#Avg Type: RMS	11:17:50 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		Trig: Free Run Atten: 36 dB		TYPE A WWWWW DET A NNNN	Auto Tune
10 dB/div Ref 25.00 dBm			Mk	1 1.709 97 GHz -26.12 dBm	Auto Tune
Trace 1 Pass		Ĭ			Center Freq
15.0					1.710000000 GHz
5.00					Start Fred
-5.00					1.695000000 GHz
-15.0		1			Stop Fred 1.725000000 GHz
-25.0				\\	
-35.0	v	and the state of t			CF Step 3.000000 MH
45.0					<u>Auto</u> Mar
					Freq Offse
-55.0					0 Hz
-65.0					Scale Type
Center 1.71000 GHz #Res BW 360 kHz	#VBW 1.	2 MHz	Sweep	Span 30.00 MHz 1.000 ms (1001 pts)	Log <u>Lir</u>
ИSG			STATU		

Plot 7-185. Lower Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB - Ant1)



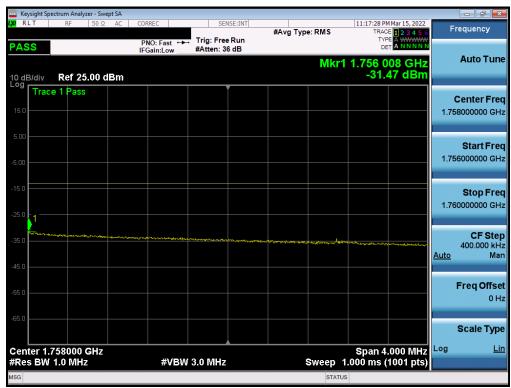
Plot 7-186. Lower Extended Band Edge Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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T RF 50 Ω AC CORREC SENSE:INT 11:17:12 PM Mar 15, 2022
#Avg Type: RMS TRACE 123456 Frequence
S PNO: Fast $\rightarrow \rightarrow$ Trig: Free Run TYPE A WANNER IFGain:Low #Atten: 36 dB DET ANNNN
/div Ref 25.00 dBm -29.40 dBm
Trace 1 Pass Center
1.75500000
Start
1.74000000
Stop
1.77000000
CF CF
Auto Auto
Freq O
Scale
er 1.75500 GHz Span 30.00 MHz
BW 360 kHz #VBW 1.2 MHz Sweep 1.000 ms (1001 pts)
STATUS

Plot 7-187. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK - Full RB - Ant1)



Plot 7-188. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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	ectrum Analyzer							
X/RLT	RF	50Ω AC	CORREC	SENSE:IN	#Avg Typ	e: RMS	11:16:41 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Fast ↔ IFGain:Low	<ul> <li>Trig: Free Run #Atten: 36 dB</li> </ul>				
10 dB/div	Ref 25.0	)0 dBm				Mk	r1 1.780 06 GHz -25.75 dBm	Auto Tune
Log Trac	e 1 Pass							Center Fred 1.780000000 GHz
5.00		M~~~~~	her forge over the sound for t	martenur				Start Free 1.765000000 GH:
25.0								Stop Free 1.795000000 GH
35.0					and the second and the second s		and and a second second	CF Step 3.000000 MH <u>Auto</u> Ma
45.0 <u></u> 55.0 <u></u>								Freq Offse 0 H
65.0								Scale Type
Center 1. #Res BW	78000 GH 360 kHz	z	#VB\	N 1.2 MHz		Sweep	Span 30.00 MHz 1.000 ms (1001 pts)	Log <u>Lir</u>
MSG						STAT		

Plot 7-189. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK - Full RB - Ant1)



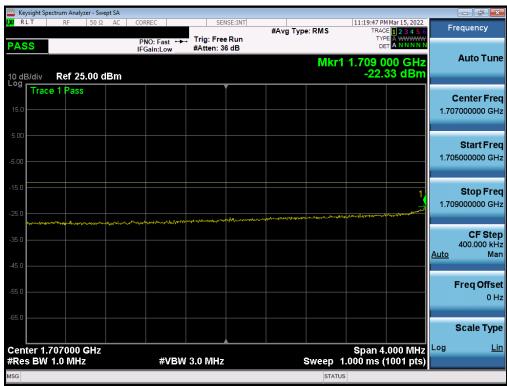
Plot 7-190. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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LXI RLT RF 50 Ω AC CORREC SENSE:INT 11:19:40 PM Mar 15, 2022	
<b>F AC COREC</b> SENSE.INT <b>#Avg Type: RMS</b> TRACE <b>12.345</b> 6	requency
PASS PNO: Fast Trig: Free Run TYPE ANNUM IFGain:Low #Atten: 36 dB DET ANNUM Mkr1 1.710 00 GHz	Auto Tune
10 dB/div Ref 25.00 dBm -27.27 dBm	
	Center Freq
5.00	
-5.00	Start Freq
-15.0	
1.72	Stop Freq 20000000 GHz
-25.0	CF Step
-45.0 Auto	2.000000 MHz Man
-55.0	Freq Offset
-65.0	0 Hz
	Scale Type
Center 1.71000 GHz         Span 20.00 MHz         Log           #Res BW 240 kHz         #VBW 750 kHz         Sweep 1.000 ms (1001 pts)	Lin
MSG	

Plot 7-191. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB - Ant1)



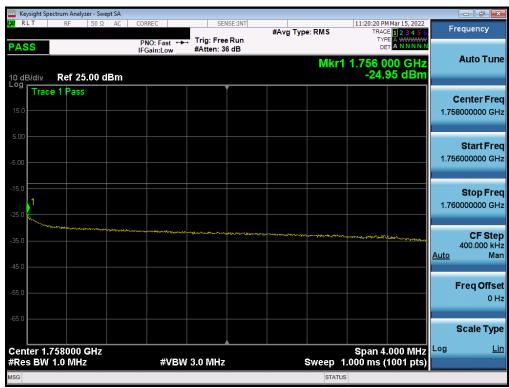
Plot 7-192. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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Keysight Spectrum Analyzer - Swept SA					
🗶 RLT RF 50Ω AC	CORREC	SENSE:INT	#Avg Type: RMS	11:20:14 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB	"		
10 dB/div Ref 25.00 dBm			Mk	r1 1.755 02 GHz -29.11 dBm	Auto Tune
15.0 Trace 1 Pass	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Freq 1.755000000 GHz
-5.00					<b>Start Freq</b> 1.745000000 GHz
-15.0		1			<b>Stop Freq</b> 1.765000000 GHz
-35.0			- marine and a m	mmmmmmmm	<b>CF Step</b> 2.000000 MHz <u>Auto</u> Man
-55.0					<b>Freq Offset</b> 0 Hz
-65.0					Scale Type
Center 1.75500 GHz #Res BW 240 kHz	#VBW	750 kHz	Sweep	Span 20.00 MHz 1.000 ms (1001 pts)	Log <u>Lin</u>
MSG			STATL	IS	

Plot 7-193. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK - Full RB - Ant1)



Plot 7-194. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK - Full RB - Ant1)

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	trum Analyzer									
(X/ RLT	RF	50 Ω AC	CORREC	SE	NSE:INT	#Avg Typ	e: RMS		Mar 15, 2022	Frequency
PASS			PNO: Fast ↔ IFGain:Low	Trig: Fre #Atten: 3		•		TYP		
			IPGalli.LOW	written. o	o ub		Mkr	1 1 780	00 GHz	Auto Tune
10 dB/div	Ref 25.0	0 dBm						-27.	71 dBm	
Log Trace	1 Pass				Ĭ					O
15.0										Center Freq 1.78000000 GHz
										1.78000000 8112
5.00										
										Start Freq 1.770000000 GHz
-5.00										1.770000000 GH2
-15.0										
-13.0										<b>Stop Freq</b> 1.79000000 GHz
-25.0					<u>1</u>					1.79000000 GH2
					Luna .					CF Step
-35.0					- And And	Stranger and	romm	m		2.000000 MHz
-45.0								-	m	<u>Auto</u> Man
-4010										
-55.0										Freq Offset 0 Hz
										0 Hz
-65.0										Scale Type
										Scale Type
Center 1.7		z						Span 2	0.00 1911 12	Log <u>Lin</u>
#Res BW 2	240 kHz		#VBV	/ 750 kHz					1001 pts)	
MSG							STATUS			

Plot 7-195. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB - Ant1)



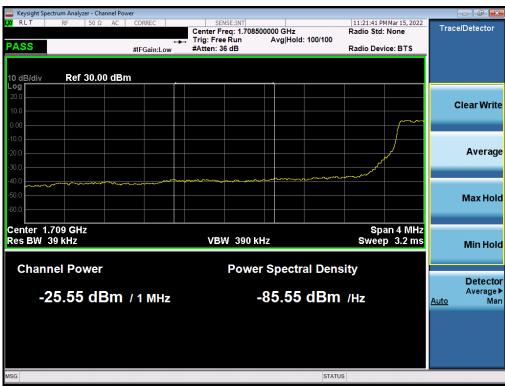
Plot 7-196. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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PAGO		SENS Trig: Free #Atten: 36		#Avg Type		TRAC TYP DE	1 Mar 15, 2022 E <b>1 2 3 4 5 6</b> E A WWWWW T A NNNNN	Fr	requency
PASS IF						TYP DE			
10 dB/dia Def 25.00 dBm					Milen				
					WIKE	1.709 -25.4	99 GHz 47 dBm		Auto Tune
15.0			~~~~	~~~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Center Freq 0000000 GHz
-5.00								1.70	Start Freq 5000000 GHz
-15.0			1					1.71	<b>Stop Freq</b> 5000000 GHz
-35.0		کر ۔۔۔ ک						1 <u>Auto</u>	CF Step I.000000 MHz Man
-56.0									Freq Offset 0 Hz
-65.0									Scale Type
Center 1.710000 GHz #Res BW 120 kHz	#VBW 3	00 647			Swoon 1	Span 1	0.00 MHz 1001 pts)	Log	Lin
#Res BW 120 KHZ	#VDW 3:	90 KHZ			sweep 1.	000 HIS (	roo r pis)		

Plot 7-197. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - Ant1)



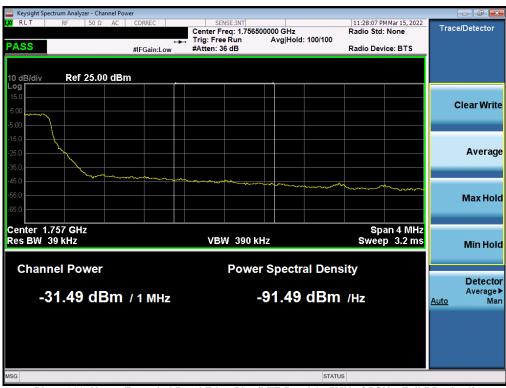
Plot 7-198. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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	ectrum Analyzer										x
(XI) RLT	RF	50Ω AC	CORREC	SEN	ISE:INT	#Avg Typ	e: RMS	11:22:01 PM TRACE	Mar 15, 2022	Frequency	
PASS			PNO: Wide ↔ IFGain:Low	, Trig: Free #Atten: 3				TYPE DET	A WWWWW A N N N N N	A	
10 dB/div Log	Ref 25.0	0 dBm					Mkr	1 1.755 ( -26.4	01 GHz 8 dBm	Auto Tu	une
Trac	e 1 Pass									Center F	req
15.0										1.755000000	GHz
5.00										Start F	req
-5.00										1.750000000	GHz
-15.0										0t F	
					1					<b>Stop F</b> 1.760000000	
-25.0											
-35.0					for	- maria				CF S 1.000000 M	MHz
-45.0						" + mm	my		مستحسر	<u>Auto</u> I	Man
-55.0										Freq Off	
05.0										l	0 Hz
-65.0										Scale Ty	уре
Center 1.		Hz						Span 10	.00 19112	Log	Lin
#Res BW	120 kHz		#VBW	/ 390 kHz				.000 ms (1	001 pts)		
MSG							STATUS				

Plot 7-199. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK - Full RB - Ant1)



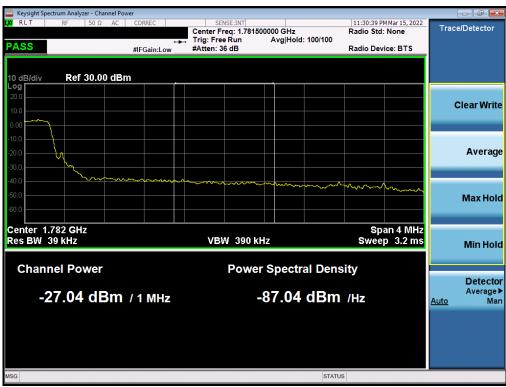
Plot 7-200. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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🔤 Keysight Spectrum Analyzer - Swe					
LXIRLT RF 50Ω	AC CORREC	SENSE:INT	#Avg Type: RMS	11:28:40 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB		TYPE A WWWWW DET A NNNNN	
10 dB/div Ref 25.00 d	Bm		Mkı	1 1.780 00 GHz -24.49 dBm	Auto Tune
15.0 Trace 1 Pass		~~~~			Center Freq 1.780000000 GHz
-5.00					Start Freq 1.775000000 GHz
-15.0					<b>Stop Freq</b> 1.785000000 GHz
-35.0				- And and a second second	CF Step 1.000000 MHz <u>Auto</u> Mar
-55.0					Freq Offse 0 H:
-65.0					Scale Type
Center 1.780000 GHz #Res BW 120 kHz	#VBW	390 kHz	Sweep 1	Span 10.00 MHz .000 ms (1001 pts)	Log <u>Lin</u>
MSG			STATU		

Plot 7-201. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK - Full RB - Ant1)



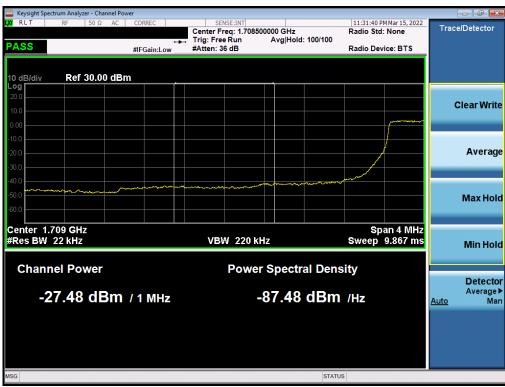
Plot 7-202. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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🔤 Keysight Spectrum Ana										
KIT RF	50 Ω AC	CORREC	SEN	ISE:INT	#Avg Typ	e: RMS	TRAC	Mar 15, 2022	F	requency
PASS		PNO: Wide ↔ IFGain:Low	Trig: Free #Atten: 30				TYI Di			
10 dB/div Ref 2	25.00 dBm					Mkr1	1.710 0 -21.	00 GHz 44 dBm		Auto Tune
15.0 Trace 1 Pas	55									<b>Center Freq</b> 0000000 GHz
-5.00									1.70	Start Freq 7000000 GHz
-15.0				1					1.71	Stop Freq 3000000 GHz
-35.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							<u>Auto</u>	CF Step 600.000 kHz Man
-55.0										Freq Offset 0 Hz
-65.0										Scale Type
Center 1.71000		4) (B)(J)	0401.00-				Span 6	.000 191112	Log	<u>Lin</u>
#Res BW 75 kH	2	#VBW	240 kHz			Sweep 1		1001 pts)		
56						STATUS				

Plot 7-203. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - Ant1)



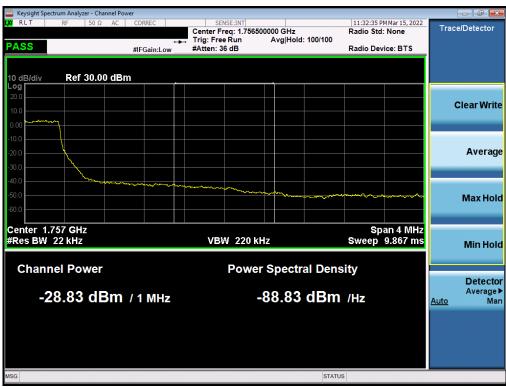
Plot 7-204. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Page 125 of 222			
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	ectrum Analyz							
IXI RLT	RF	50 Ω AC	CORREC	SENSE:INT	#Avg Type: RM	11:32:25 PM Ma	23456	Frequency
PASS			PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB				
10 dB/div Log	Ref 25	.00 dBm			N	00 1.755/00 23.60	6 GHz dBm	Auto Tune
15.0	e 1 Pass							Center Freq
5.00	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						1.755000000 GH2
-5.00								Start Freq 1.752000000 GHz
-15.0								
/				1				<b>Stop Freq</b> 1.758000000 GHz
-25.0								CF Step
-35.0						~~~~~	Au	600.000 kHz to Man
-45.0								Freq Offset
-55.0								- 0 Hz
-65.0								Scale Type
Center 1.7		GHz		· · · · · · · · · · · · · · · · · · ·		Span 6.00	00 MHz Lo	g <u>Lin</u>
#Res BW	75 kHz		#VBW	240 kHz		ep 1.333 ms (10 status	01 pts)	
Mou						STA105		

Plot 7-205. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - Ant1)



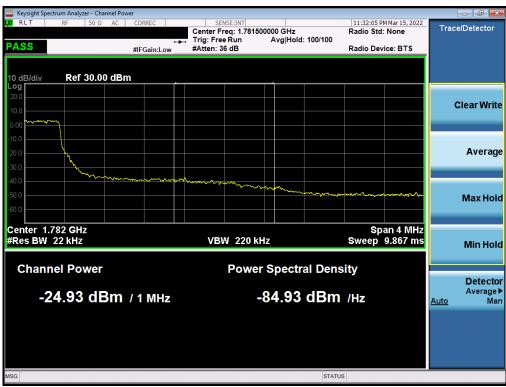
Plot 7-206. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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Even See Strate					
LXX RLT RF 50Ω AC	CORREC	SENSE:INT	#Avg Type: RMS	11:31:59 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide ↔ Trig: F IFGain:Low #Atten	ree Run : 36 dB		DET A NNNN	
10 dB/div Ref 25.00 dBm			Mk	r1 1.780 006 GHz -20.35 dBm	Auto Tune
15.0 Trace 1 Pass					Center Freq 1.780000000 GHz
-5.00					Start Freq 1.777000000 GHz
-15.0		1			<b>Stop Freq</b> 1.783000000 GHz
-35.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		CF Step 600.000 kHz <u>Auto</u> Mar
-55.0					Freq Offse 0 H:
-65.0					Scale Type
Center 1.780000 GHz #Res BW 75 kHz	#VBW 240 kH	lz	Sweep	Span 6.000 MHz 1.333 ms (1001 pts)	Log <u>Lin</u>
MSG				TUS	

Plot 7-207. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK - Full RB - Ant1)



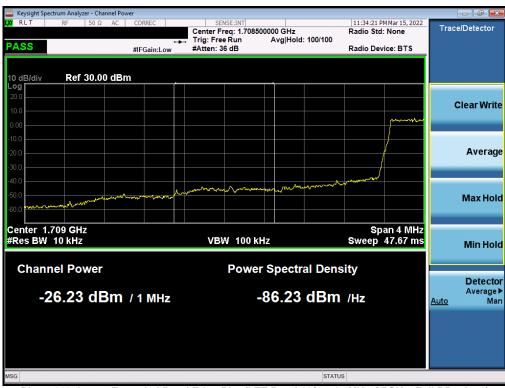
Plot 7-208. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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🔤 Keysight Spectrum A										
LXIRLT RF	50 Ω AC	CORREC	SENSE		#Avg Type	:RMS		1 Mar 15, 2022	F	requency
PASS		PNO: Wide ↔ IFGain:Low	Trig: Free R #Atten: 36 d	un			TYP			
10 dB/div Ref	25.00 dBm					Mkr1	1.709 9 -32.	72 GHz 16 dBm		Auto Tune
15.0 Trace 1 Pa	ass			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	)			<b>Center Freq</b> 0000000 GHz
-5.00									1.70	Start Freq 8000000 GHz
-15.0									1.71	<b>Stop Freq</b> 2000000 GHz
-35.0	Mann	man	mar and the second				hum	Mr.	<u>Auto</u>	<b>CF Step</b> 400.000 kHz Man
-55.0										Freq Offset 0 Hz
-65.0										Scale Type
Center 1.71000 #Res BW 33 kH		#VBW	110 kHz			Sweep 4.	Span 4 533 ms (	.000 MHz 1001 pts)	Log	<u>Lin</u>
MSG						STATUS				

Plot 7-209. Lower Band Edge Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - Ant1)



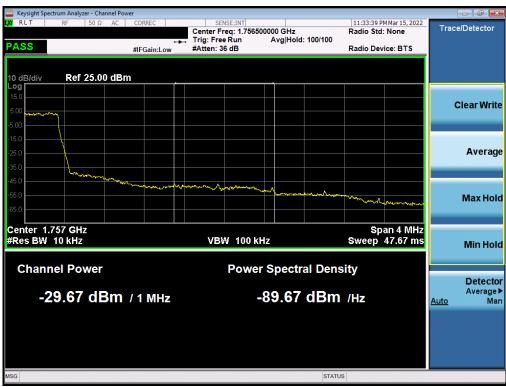
Plot 7-210. Lower Extended Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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Keysight Spectrum										_	
LXI RLT	RF 50 Ω	AC AC	CORREC	SE	NSE:INT	#Avg Typ	e: RMS	TRAC	M Mar 15, 2022	Fr	equency
PASS			PNO: Wide ++-	Trig: Fre #Atten: 3		• •		TYP			
			II Gam.cow				Mkr1	1.755 0	04 GHz		Auto Tune
10 dB/div R	ef 25.00	dBm						-33.	90 dBm		
Log Trace 1	Pass				í line a la companya de la companya						Center Freg
15.0											5000000 GHz
		m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
5.00											Start Freq
-5.00				ł						1.75	3000000 GHz
-3.00											
-15.0											Stop Freq
										1.75	7000000 GHz
-25.0					1						
-35.0				ł	2						CF Step
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					and	1 miles				Auto	400.000 kHz Man
-45.0						www	$\sim \sim $	www	m		
											Freq Offset
-55.0											0 Hz
-65.0											
											Scale Type
Center 1.755	000 GHz							Spap 4	.000 MHz	Log	Lin
#Res BW 33			#VBW	110 kHz			Sweep 4	.533 ms (	1001 pts)		
MSG							STATUS				

Plot 7-211. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB - Ant1)



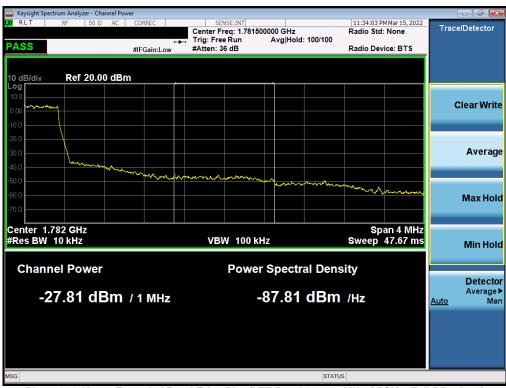
Plot 7-212. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT				
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🚾 Keysight Spectrum Analyzer - Swept					
<b>ΧΙ RLT</b> RF 50 Ω	AC CORREC	SENSE:INT	#Avg Type: RMS	11:33:54 PM Mar 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB		TYPE A WWWWW DET A NNNN	
			Mkr1	1.780 004 GHz	Auto Tune
10 dB/div Ref 25.00 dB	3m			-31.21 dBm	
Trace 1 Pass		Ĩ			Center Freq
15.0					1.780000000 GHz
5.00	······································	my			
5.00					Start Free
-5.00					1.778000000 GHz
-15.0					Stop Freq
					1.782000000 GHz
-25.0		<u></u> 1			
-35.0		handred			CF Step
m			munine	0.4	400.000 kHz <u>Auto</u> Mar
-45.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and more way	
					Freq Offset
-55.0					0 Hz
05.0					
-65.0					Scale Type
Center 1.780000 GHz	4) (B)(J)	446 1-11-	•	Span 4.000 MHz .533 ms (1001 pts)	Log <u>Lin</u>
#Res BW 33 kHz	#VBW	110 kHz			
MSG			STATU	5	

Plot 7-213. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB - Ant1)



Plot 7-214. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB - Ant1)

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## NR Band n66 – Ant1

Keysight Spectrum Analyzer - Swept SA							
XIRL RF 50Ω AC	CORREC	SENSE:INT	#Avg Typ	ALIGN AUTO e: RMS	02:56:48 PM Ap TRACE	or 29, 2022	Frequency
PASS		: Free Run en: 36 dB		Mk	DET		Auto Tune
10 dB/div Ref 25.00 dBm					r1 1.710 ( -20.56	dBm	
15.0							Center Fred 1.710000000 GHz
-5.00		Aragin by state	man marked and and and and and and and and and an	and and the second s			<b>Start Fred</b> 1.660000000 GH:
-15.0		1					<b>Stop Fred</b> 1.760000000 GH:
-35.0		mor			m	har	<b>CF Stej</b> 10.000000 MH <u>Auto</u> Ma
-45.0 							Freq Offse 0 H
-65.0							Scale Type
Center 1.71000 GHz #Res BW 470 kHz	#VBW 2.0 I	VIHz		Sweep_1	Span 100 000 ms (10.	.0 MHz 01 pts)	Log <u>Lir</u>
MSG				STATUS			

Plot 7-215. Lower Band Edge Plot (NR Band n66 - 40.0MHz - Full RB - Ant1)



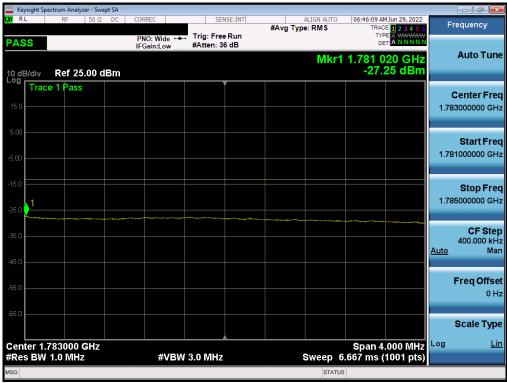
Plot 7-216. Lower Extended Band Edge Plot (NR Band n66 – 40.0MHz - Full RB - Ant1)

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PASS PPO: Fast + Trig: Free Run #Atten: 36 dB Mkr1 1.780 1 GHz -22.28 dBm Trace 1 Pass 150 150 150 150 150 150 150 150	🔤 Keysight Spectrum Analyzer - Swept SA 👘					
Auto Tune Mkr1 1.780 1 GHz -22.28 dBm 10 dB/div Ref 25.00 dBm 10 dB	LXX RL RF 50Ω AC				TRACE 1 2 3 4 5 6	Frequency
NRKT 1,780 1 GHz         Picture       Pass       -22.28 dBm         Center Freq       1,78000000 GHz         Cite       Start Freq         Stop Freq       1,78000000 GHz         Stop Freq       1,78000000 GHz         Cite       Stop Freq         100       1       1       1         100       1       1       1       1         100       1       1       1       1       1         100       1       1       1       1       1       1         100       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <th1< th="">       1       1</th1<>	PASS				DETANNNN	Auto Tune
Trace 1 Pass       Center Freq         150       Start Freq         150       Start Freq         150       Start Freq         150       Stop Freq         18000000 GHz       Stop Freq </td <td>10 dB/div Ref 25.00 dBm</td> <td></td> <td></td> <td>MI</td> <td>-22.28 dBm</td> <td>Auto Func</td>	10 dB/div Ref 25.00 dBm			MI	-22.28 dBm	Auto Func
500     Start Freq       500     1       500     1       500     1       500     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       150     1       160     1       17     1       18000000     1       1000000     1       1000000     1       1000000     1       1000000       1000000       10000	Trace 1 Pass		Ĭ			Center Freq
Start Freq Start Freq Start Freq 1.73000000 GHz Start Freq 1.73000000 GHz	15.0					1.780000000 GHz
5.00     1.73000000 GHz       15.0     1       15.0     1       15.0     1       25.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1       35.0     1	5.00	-terminen - exporter March	www			Start From
150     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1<	-5.00					
250 360 360 450 450 450 450 450 450 450 45						
250 250 250 250 250 250 250 250 250 250	-15.0		1			
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Atto Man Atto Man Freq Offset 0 Hz Center 1.78000 GHz Span 100.0 MHz Log Lin	-35.0		- hun-	4		
550 Freq Offset 650 Scale Type Center 1.78000 GHz Span 100.0 MHz Log Lin				my		
Center 1.78000 GHz Span 100.0 MHz Log Lin	-45.0			المحرم معارضه معارضه	-Augurean Augurean and and and and and and and and and a	
Center 1.78000 GHz Span 100.0 MHz	-55.0					-
Center 1.78000 GHz Span 100.0 MHz	-65.0					
Center 1.78000 GHz Span 100.0 MHz Log Lin #Res BW 510 kHz #VBW 2.0 MHz Sweep 1.000 ms (1001 pts)						Scale Type
<b>#Res BW 510 kHz #VBW 2.0 MHz</b> Sweep 1.000 ms (1001 pts)	Center 1.78000 GHz	#) (BW 0.0			Span 100.0 MHz	Log <u>Lin</u>
ISG STATUS	#Res BW 510 KHz	#VBW 2.0	WIRZ			

Plot 7-217. Upper Band Edge Plot (NR Band n66 - 40.0MHz - Full RB - Ant1)



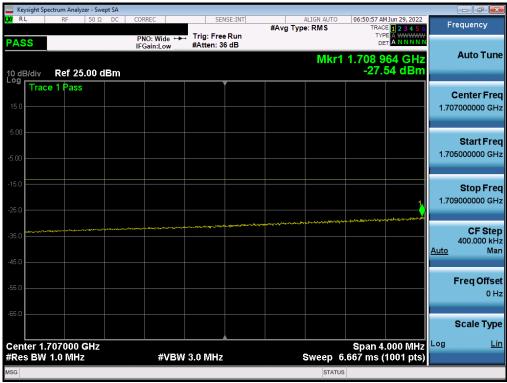
Plot 7-218. Upper Extended Band Edge Plot (NR Band n66 – 40.0MHz - Full RB - Ant1)

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	ectrum Analyzer - S										
L <mark>XI</mark> RL	RF 50 !	Ω AC	CORREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO		May 05, 2022	Fr	equency
PASS			PNO: Fast ↔ IFGain:Low	Trig: Fre #Atten: 3				DE			
10 dB/div Log	Ref 25.00	dBm					Mkr1	1.709 9 -27.	25 GHz 56 dBm		Auto Tune
15.0 Trac	e 1 Pass										<b>enter Freq</b>
-5.00										1.672	Start Freq 2500000 GHz
-15.0					1					1.747	Stop Freq 7500000 GHz
-35.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and a state of the					Municipality	7 <u>Auto</u>	<b>CF Step</b> .500000 MHz Man
-55.0	angelsen lange of and									ľ	F <b>req Offsel</b> 0 Hz
-65.0											Scale Type
Center 1. #Res BW	71000 GHz 470 kHz		#VBW	/ 1.8 MHz			Sweep 1	Span 7 .000 ms (	5.00 MHz 1001 pts)	LUg	
MSG							STATUS				

Plot 7-219. Lower Band Edge Plot (NR Band n66 - 30.0MHz - Full RB - Ant1)



Plot 7-220. Lower Extended Band Edge Plot (NR Band n66 – 30.0MHz - Full RB - Ant1)

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	pectrum Analy	zer - Swej	pt SA										
<mark>(</mark> RL	RF	50 Ω	AC	CORREC		SEI	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS		M May 05, 2022	Fr	equency
PASS				PNO: Fa	ast ↔ .ow	Trig: Free #Atten: 3		• //		TY			
0 dB/div	Ref 2	i.00 d	Bm						Mkr1	1.780 ( -26.	)75 GHz 54 dBm		Auto Tune
	ce 1 Pass												Center Free
15.0			-autoritory Jugita	-0.46. 500.05.								1.78	0000000 GH:
5.00													Start Free
5.00												1.74	2500000 GH:
15.0													Stop Free
25.0						(	1					1.81	7500000 GH
35.0 mar	mon						marmon	Alex.					CF Ste
45.0								mond	·~~			<u>Auto</u>	7.500000 MH Mai
45.0									- All and a second	and when	and the second second		Freq Offse
55.0													0 H
65.0													Scale Type
Center 1	.78000 G	Hz								Snan 7	5.00 MHz		Lir
	/ 470 kH			\$	ŧνΒ₩	1.8 MHz			Sweep 1	.000 ms (	1001 pts)		
ISG									STATUS	5			

Plot 7-221. Upper Band Edge Plot (NR Band n66 - 30.0MHz - Full RB - Ant1)



Plot 7-222. Upper Extended Band Edge Plot (NR Band n66 – 30.0MHz - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager	
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🔤 Keysight Spectrum Analyzer - Sw										
<b>LXI</b> RL RF 50 Ω	AC CO	ORREC	SEI	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS		4 May 05, 2022	Fr	equency
PASS		NO: Fast 🔸	Trig: Free #Atten: 3				TYP			
10 dB/div Ref 25.00 d	dBm					Mkr	1 1.709 -28.	80 GHz 50 dBm		Auto Tune
15.0										<b>enter Freq</b> 0000000 GHz
-5.00						years and an of an			1.68	Start Freq 5000000 GHz
-15.0				1					1.73	Stop Freq 5000000 GHz
-35.0	A - Oran Market	and the second	non and the second					Mary and	5 <u>Auto</u>	<b>CF Step</b> .000000 MHz Man
-55.0									F	F <b>req Offset</b> 0 Hz
-65.0							Span 5			Scale Type <sub>Lin</sub>
Center 1.71000 GHz #Res BW 240 kHz		#VBW	820 kHz			Sweep 1	<del>sp</del> an 5 .000 ms (	0.00 MHz 1001 pts)		
MSG						STATUS				

Plot 7-223. Lower Band Edge Plot (NR Band n66 - 20.0MHz - Full RB - Ant1)



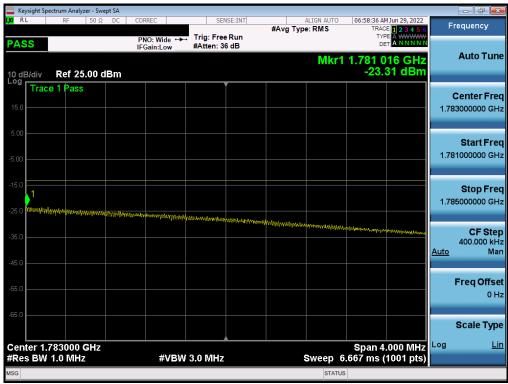
Plot 7-224. Lower Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB - Ant1)

FCC ID: C3K1997		PART 27 MEASUREMENT REPORT			
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Plot 7-225. Upper Band Edge Plot (NR Band n66 - 20.0MHz - Full RB - Ant1)



Plot 7-226. Upper Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB - Ant1)

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PASS PRO: Wide Trig: Free Run PASS Ref 25.00 dBm Center Freq 150 150 150 150 150 150 150 150	🔤 Keysight Spectrum Analyzer - Swept SA					
Auto Tune Auto Tune Mikr1 1.710 000 0 GHz 150 150 150 150 150 150 150 150	L <mark>X/</mark> R L RF 50 Ω AC	CORREC	SENSE:INT	ALIGN AUTO	10:57:25 AM May 05, 2022	Frequency
NKKT 1.7.000 O GHz       Center Freq         150       -27.50 dBm         150       -27.50 dBm         500       -27.50 dBm         150       -27.50 dBm         500       -27.50 dBm         150       -27.50 dBm         500       -27.50 dBm         500	PASS					
Trace 1 Pass       Center Freq         150       Start Freq         150       1.591250000 GHz         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1         150       1	Log			Mkr1 1	.710 000 0 GHz -27.50 dBm	Auto Tune
Start Freq Start Freq 150 250 350 450 560 560 560 560 560 560 560 5	Trace 1 Pass					
250 350 450 450 450 450 450 450 450 4	-5.00					•
3.750000 MHz 450 650 660 Center 1.71000 GHz Span 37.50 MHz Log Lin	-15.0		1			
55.0 Freq Offset 65.0 Scale Type Center 1.71000 GHz Span 37.50 MHz	-35.0	~~~~~	s		har	3.750000 MHz
Center 1.71000 GHz Span 37.50 MHz	-55.0					•
					0	
	#Res BW 180 kHz	#VBW	620 kHz	Sweep 1	Span 57.50 Will2	
	MSG					

Plot 7-227. Lower Band Edge Plot (NR Band n66 - 15.0MHz - Full RB - Ant1)



Plot 7-228. Lower Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB - Ant1)

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Plot 7-229. Upper Band Edge Plot (NR Band n66 - 15.0MHz - Full RB - Ant1)



Plot 7-230. Upper Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB - Ant1)

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