

Plot 7-196. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel)



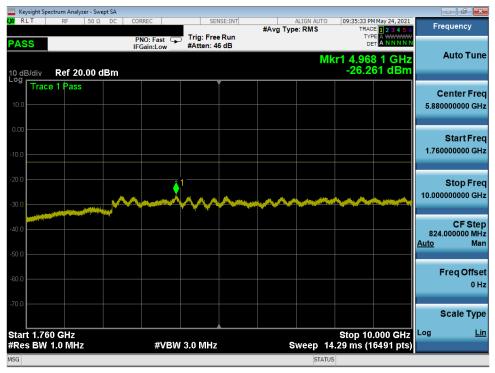
Plot 7-197. Conducted Spurious Plot (WCDMA Ch. 1413- Mid Channel)

FCC ID: BCGA2568		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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	ctrum Analyzer									_	
L <mark>XI</mark> RLT	RF 5	0Ω DC	CORREC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO		May 24, 2021	Fn	equency
PASS			PNO: Fast C IFGain:Low	Trig: Free Atten: 30		• /	M	TYF DE	2 5 GHz 35 dBm		Auto Tune
10 dB/div Log	Ref 20.0	0 dBm						-50.	35 dBm		
10.0 Trace	e 1 Pass										enter Freq .000000 MHz
0.00											
-10.0										30	Start Freq .000000 MHz
-20.0										1.710	Stop Freq
-30.0											CF Step .000000 MHz
-50.0							a sum ter statistickerstel	A. 647./01.001.01.001.01.00		<u>Auto</u>	Man
-60.0	**************************************		**###~#**#############################		**************************************	en ander for any findly with marrie				ŀ	Freq Offset 0 Hz
-70.0											Scale Type
Start 0.03 #Res BW			#VB	W 3.0 MHz			Sween_2	Stop 1.7	7100 GHz 3361 pts)	Log	<u>Lin</u>
MSG	110-11112						STATUS		oorr pro/		

Plot 7-198. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)



Plot 7-199. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)

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Keysight Spectrum Analyzer - Swept S	5A				- 5 💌
X/RLT RF 50ΩD	C CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:36:31 PM May 24, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast 😱 IFGain:Low	Trig: Free Run Atten: 10 dB	• //	TYPE A WWWW DET A NNNNN	
10 dB/div Ref 0.00 dBm	1		Mk	r1 19.547 5 GHz -60.060 dBm	Auto Tune
Trace 1 Pass		Ĭ			Center Freq
-10.0					15.00000000 GHz
-20.0					
-20.0					Start Freq
-30.0					10.00000000 GHz
-40.0					
-40.0					Stop Freq 20.00000000 GHz
-50.0					
-60.0				♦ ¹	CF Step
					1.000000000 GHz Auto Man
-70.0					
-80.0					Freq Offset
					0 Hz
-90.0					Scale Type
Start 10.000 GHz #Res BW 1.0 MHz	#VBW :	3.0 MHz	Sweep 1	Stop 20.000 GHz 7.33 ms (20001 pts)	Log <u>Lin</u>
MSG			STATU		

Plot 7-200. Conducted Spurious Plot (WCDMA Ch. 1513- High Channel)

FCC ID: BCGA2568	PCTEST Arout to ler part uf @ viewered	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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Uplink CA LTE Band 66B/C



Plot 7-201. Conducted Spurious Plot (ULCA LTE Band 66 – (20+20)MHz QPSK – Low Channel)



Plot 7-202. Conducted Spurious Plot (ULCA LTE Band 66 - (20+20)MHz QPSK - Low Channel)

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	ectrum Analyzer												_	- ē 💌
L <mark>XI</mark> RL	RF	50 Ω A	C CO	RREC		SEI	NSE:INT SO		ALIGN AU Type: RMS	то		1 Apr 27, 2021	Fred	uency
PASS				NO: Fa Gain:L	st 🖵 ow	Trig: Free Atten: 10		#Avg	iype: Rivis		TYF	E 1 2 3 4 5 6 E A WWWW T A N N N N N		
10 dB/div Log	Ref 0.00	dBm							N	lkr1	18.30 -60.2	9 0 GHz 79 dBm	A	uto Tune
-10.0	e 1 Pass													nter Freq 00000 GHz
-20.0														Start Freq 00000 GHz
-40.0														Stop Freq 00000 GHz
-60.0													1.0000 <u>Auto</u>	CF Step 00000 GHz Man
-80.0													Fr	e q Offset 0 Hz
-90.0														cale Type
Start 10.0 #Res BW				#	VBW	3.0 MHz			Sweep	25.	Stop 20 33 ms (2	.000 GHz 0001 pts)	Log	Lin
MSG									ST	ATUS				

Plot 7-203. Conducted Spurious Plot (ULCA LTE Band 66 – (20+20)MHz QPSK – Low Channel)

Keysight Spectrum Analyzer - Swept SA R L RF 50 Ω AC	CORREC SENSE:INT S		12:48:05 AM Apr 27, 2021	Frequency
ASS	PNO: Fast Trig: Free Run IFGain:Low Atten: 30 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N	Trequency
dB/div Ref 20.00 dBm		Mkr	1 1.709 5 GHz -29.40 dBm	Auto Tur
Deg Trace 1 Pass				Center Fre 870.000000 Mi
0.0				Start Fre 30.000000 Mi
0.0			1	Stop Fr 1.710000000 G
0.0				CF Ste 168.000000 Mi <u>Auto</u> Mi
0.0				Freq Offs 0
0.0				Scale Typ
tart 0.0300 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 2.2	Stop 1.7100 GHz 240 ms (3361 pts)	Log <u>L</u>

Plot 7-204. Conducted Spurious Plot (ULCA LTE Band 66 – (20+20)MHz QPSK – Mid Channel)

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	ectrum Analyze												ð 💌
LXI RL	RF	50 Ω	AC (CORREC		SEN	ISE:INT SOUR	CE OFF #Avg Ty	ALIGN AUTO		17 AM Apr 27, 2021 TRACE 1 2 3 4 5 6	Frequer	icy
PASS				PNO: Fast IFGain:Low		g: Free ten: 30							
				IFGam:Low	A	ten. oo	db		N	lkr1 1	780 5 GHz	Auto	Tune
10 dB/div Log	Ref 20.	00 dE	3m							-24	780 5 GHz 1.623 dBm		
Trac	e 1 Pass											Cente	r Freg
10.0												5.8900000	
0.00												Star	tFreq
-10.0												1.7800000	
-20.0 1												Sto	Freq
<u> </u>												10.0000000	
-30.0													
-40.0													Step
												822.0000 Auto	DO MHZ Man
-50.0	-	~~~~	~~~~	<u> </u>	~~~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		-			
												Freq	Offset
-60.0													0 Hz
-70.0													
												Scale	е Туре
Start 1.78	0 GHz									Stop	10.000 GHz	Log	Lin
#Res BW				#VI	BW 3.0	MHz			Sweep	14.25 m	s (16441 pts)		
MSG									STAT	rus			

Plot 7-205. Conducted Spurious Plot (ULCA LTE Band 66 – (20+20)MHz QPSK – Mid Channel)



Plot 7-206. Conducted Spurious Plot (ULCA LTE Band 66 – (20+20)MHz QPSK – Mid Channel)

FCC ID: BCGA2568	PCTEST. Predicible per di @ sierzed	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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Mkr1 1.701 5 GHz Auto Tune dB/div Ref 20.00 dBm -46.64 dBm Center Freq 00 Image: Start Freq 870.00000 MHz 870.00000 MHz 00 Image: Start Freq 30.00000 MHz 1.71000000 GHz 00 Image: Start Freq 30.00000 MHz 1.71000000 GHz 00 Image: Start Freq 1.71000000 GHz 1.71000000 GHz 10 Imag		ctrum Analyzer	- Swept SA						e e 💌
ASS PN: Fast Trig: Free Run Atten: 30 dB Mkr1 1.701 5 GHz 46.64 dBm Atten: 30 dB Center Freq S70.000000 MHz 46.64 dBm S70.000000 MHz 30.00000 MHz 30.0000 MHz 30.0000 MHz 30.0000 MHz 30.0000 MHz 30.00000 MHz 30.0000 MHZ 30.00000 MHZ 30.0000 MHZ 30.0000 MHZ 30.00000 MHZ 30.0000 MHZ 30.0	LXI RL	RF 5	OΩ AC	CORREC	SENS				
Ref 20.00 dBm Center Freq 30 Trace 1 Pass Center Freq 30 Start Freq 10 Start Freq 11 Start Freq 12 Start Freq 13 Start Freq 14 Start Freq 15 Start Freq 168 Start Freq 10 St	PASS			PNO: Fast 🖵 IFGain:Low		Run		TYPE A WWW DET A NNN	
Trace 1 Pass Center Freq Center Freq 870.00000 MHz Start Freq 30.00000 MHz Stop Freq 1.7100000 GHz CF Step 168.00000 MHz CF Step 1.7100000 GHz Freq Offset 0 Hz Stop 1.7100 GHz Stop 1.7100 GHz	10 dB/div Log	Ref 20.0	0 dBm				М	kr1 1.701 5 GH -46.64 dBi	z Auto Tune n
Image: start Freq Image: start Freq <t< td=""><td>10.0</td><td>e 1 Pass</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	10.0	e 1 Pass							
Stop Freq 1.71000000 GHz CF Step 168.000000 MHz Auto Man Freq Offset 0 Hz Scale Type Log Lin	-10.0								
158.000000 MHz Auto Man Freq Offset 0 Hz Stop 1.7100 GHz	-20.0								
art 0.0300 GHz Stop 1.7100 GHz Log Lin	-40.0								168.000000 MHz
tart 0.0300 GHz Stop 1.7100 GHz	-60.0	1999-1996-1996-1996-1996-1996-1996-1996	مغديله ومحمور واليوهي	nght an ann an Anna an Anna an Anna Anna An					
Stop 1.7 100 GHZ	-70.0								
				#VBW	3.0 MHz		Sweep	Stop 1.7100 GH 2.240 ms (3361 pt	2
G STATUS	MSG								

Plot 7-207. Conducted Spurious Plot (ULCA LTE Band 66 – (20+20)MHz QPSK – High Channel)



Plot 7-208. Conducted Spurious Plot (ULCA LTE Band 66 – (20+20)MHz QPSK – High Channel)

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	ectrum Analyze	er - Swept S	A											
L <mark>XI</mark> RL	RF	50 Ω A	C CC	RREC		SE	NSE:INT SO		ALIGN Type: RM			M Apr 27, 2021	Fr	equency
PASS				PNO: Fa Gain:L	ist 🖵 ow	Trig: Fre Atten: 10			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	TY D			
10 dB/div Log	Ref 0.0	0 dBm								Mkr	1 18.34 -60.	0 5 GHz 70 dBm		Auto Tune
-10.0	e 1 Pass													Center Freq 0000000 GHz
-20.0													10.00	Start Freq 0000000 GHz
-40.0													20.00	Stop Freq 0000000 GHz
-60.0						,		-			1 	~	1.00 <u>Auto</u>	CF Step 0000000 GHz Man
-80.0													1	F req Offset 0 Hz
-90.0														Scale Type
Start 10.0 #Res BW				#	VBW	3.0 MHz			Swee	p 25	Stop 20 .33 ms (2	0.000 GHz 20001 pts)	Log	Lin
MSG										STATUS				

Plot 7-209. Conducted Spurious Plot (ULCA LTE Band 66 – (20+20)MHz QPSK – High Channel)

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7.4 Band Edge Emissions at Antenna Terminal §2.1051, §27.53

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. All ports were tested and only the worst case data was reported.

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

KDB 971168 D01 v03r01 - Section 6.0

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 <u>></u> 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.

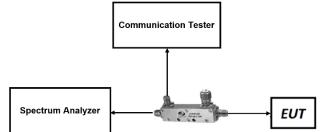


Figure 7-3. Test Instrument & Measurement Setup

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Test Notes

- Per 27.53(h) 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.
- 4. 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.

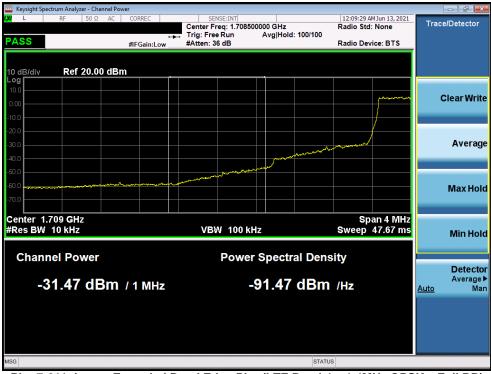
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LTE Band 4



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



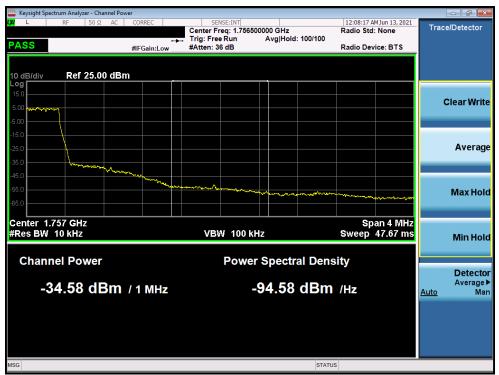
Plot 7-211. Lower Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)

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Keysight Spe	ectrum Analyzer - Swej										
PASS	RF 50 Ω		REC O:Wide ↔ Sain:Low			#Avg Typ	e: RMS	TRAC	M Jun 12, 2021 E 1 2 3 4 5 6 E A WWWWW A P N N N N	F	requency
10 dB/div	Ref 25.00 d		Jain.Low	with the second s			Mkr	1 1.755 0 -32.	00 GHz 36 dBm		Auto Tun
-og Trace	e 1 Pass	and the second	and and the state of the state	malun							Center Free 55000000 GH
5.00										1.78	Start Fre 53000000 G⊢
25.0					▲ 1					1.78	Stop Fre 57000000 GH
35.0	warm				www.	here for the f				<u>Auto</u>	CF Ste 400.000 kH Ma
55.0								mm	m		Freq Offse 0 ⊢
65.0	755000 GHz									Log	Scale Typ
Res BW			#VBW	110 kHz			Sweep	5pan 4 6.667 ms (.000 MHz 1001 pts)		
SG							STAT	US			

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



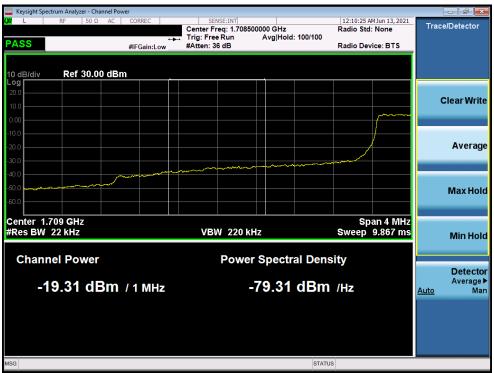
Plot 7-213. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB)

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Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC	CORREC	SENSE:INT S	DURCE OFF ALIGN AUTO	09:10:16 PM Apr 22, 2021	
ASS	PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A P N N N N	Frequency
O dB/div Ref 25.00 dBm			Mkr	1 1.709 996 GHz -19.62 dBm	Auto Tur
Trace 1 Pass					Center Fre
5.0					1.710000000 GI
5.00		$ \qquad \qquad$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
					Start Fr 1.708000000 G
.00					1.708000000 G
5.0		i			Stop Fr
5.0					1.712000000 G
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
5.0					CF St 400.000 k
5.0					<u>Auto</u> M
					Freq Offs
5.0					
5.0					
					Scale Ty
enter 1.710000 GHz Res BW 75 kHz	#VBW	240 kHz	Sweep	Span 4.000 MHz 1.000 ms (1001 pts)	Log <u>L</u>
G			STAT		

Plot 7-214. Lower Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)



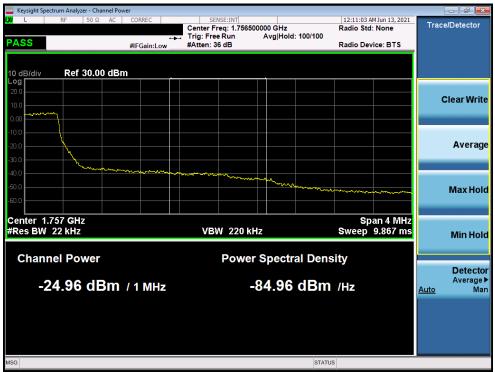
Plot 7-215. Lower Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)

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Res BW 75 kH	Z	#VBW	240 kHz		Sweep	1.000 ms (1001 j	ots)	_
enter 1.75500						Span 4.000 N	/Hz Log	L
								Scale Typ
65.0								
5.0								01
								Freq Offs
5.0							<u>Auto</u>	M
5.0							~	CF St 400.000 k
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
5.0			X				1.75	57000000 G
5.0			1					Stop Fr
.00							1.7	53000000 G
.00								Start Fr
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
5.0								Center Fr 55000000 G
Trace 1 Pa			Ť					
dB/div <b>Ref</b>	25.00 dBm				Mkr	1.755 020 G -22.01 dl		Auto Tu
ASS		IFGain:Low	#Atten: 36 dB			DET A P N		Auto Tu
		PNO: Wide 🔸			/pe: RMS	TRACE 1 2 3	156 F	requency
RL RF	alyzer - Swept SA 50 Ω AC	CORREC	SENSE:INT	SOURCE OFF	ALIGN AUTO	09:12:12 PM Apr 22, 2	021	

Plot 7-216. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)



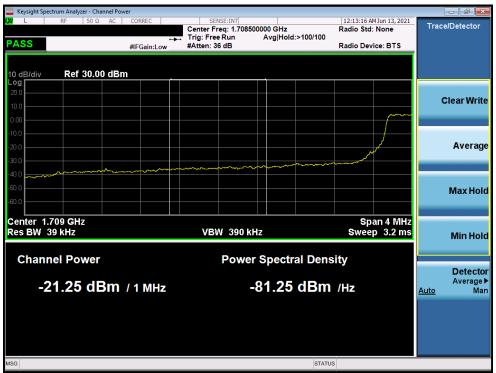
Plot 7-217. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB)

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Keysight Spectrum Analyzer - Swept SA					
<b>XI RL</b> RF 50 Ω AC	CORREC	SENSE:INT SOL	#Avg Type: RMS	09:01:07 PM Apr 22, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type: RWS		
10 dB/div Ref 25.00 dBm			Mkr	1 1.709 996 GHz -22.98 dBm	Auto Tune
Trace 1 Pass		Ĭ			Center Free
15.0					1.710000000 GH
					1.7 10000000 GH
5.00					
					Start Fre
5.00					1.708000000 GH
15.0					Stop Fre
					1.712000000 GH
25.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~			1.7 12000000 011
35.0					CF Ste 400.000 kH
(F.O.					Auto Ma
45.0					
55.0					Freq Offs
33.0					0+
65.0					01
					Scale Typ
Center 1.710000 GHz		000 1-11-		Span 4.000 MHz	Log <u>Li</u>
Res BW 120 kHz	#VBW	390 kHz		1.000 ms (100 r pts)	
SG			STATU	s	

Plot 7-218. Lower Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)



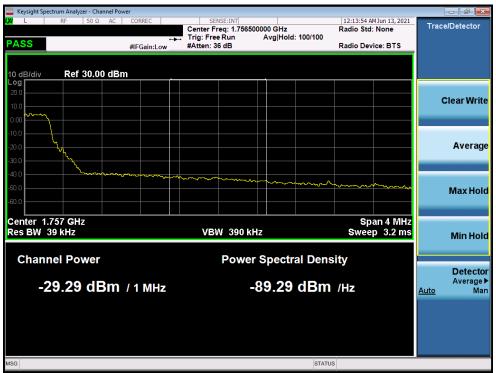
Plot 7-219. Lower Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)

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Keysight Spectrum Analyzer - Swept SA					- • •
RL RF 50Ω AC	CORREC	SENSE:INT SO	URCE OFF ALIGN AUTO #Avg Type: RMS	09:04:05 PM Apr 22, 2021 TRACE 1 2 3 4 5 6	Frequency
ASS	PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type. Kino	TYPE A WWWWW DET A P N N N N	
0 dB/div Ref 25.00 dBm			Mkr	1 1.755 024 GHz -24.89 dBm	Auto Tun
og Trace 1 Pass		Ĭ			Center Fre
15.0					1.755000000 GH
					1.70000000000
5.00					Start Fre
5.00					1.753000000 GH
15.0					Stop Fre
25.0		` <b>\</b>			1.757000000 GH
25.0		- Andrew -			
85.0			· · · · · · · · · · · · · · · · · · ·	man	CF Ste
					400.000 kł
15.0					<u>Auto</u> Ma
55.0					Freq Offs
					01
65.0					
					Scale Typ
enter 1.755000 GHz				Span 4.000 MHz	Log <u>L</u>
Res BW 120 kHz	#VBW	390 kHz	Sweep	1.000 ms (1001 pts)	
G			STAT	JS	

Plot 7-220. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)



Plot 7-221. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB)

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Keysight Spec											
L <mark>XI</mark> RL	RF 5	50 Ω AC	CORREC	SEN	SE:INT SOUR	CE OFF	ALIGN AUTO		Apr 22, 2021	F	requency
PASS			PNO: Wide +++ IFGain:Low	Trig: Free #Atten: 36				TYP			
10 dB/div	Ref 25.0	0 dBm					Mkr	1 1.709 9 -25.(	28 GHz )3 dBm		Auto Tune
Log Trace	e 1 Pass										Center Freq
15.0											0000000 GHz
5.00					مسم	······································	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	um		
											Start Freq
-5.00										1.70	6000000 GHz
-15.0											
					1					1 71	Stop Freq 4000000 GHz
-25.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Manana	mound	harring the second s	N*					1.71	4000000 GH2
-35.0											CF Step
										Auto	800.000 kHz Man
-45.0											
-55.0											Freq Offset
~~~~											0 Hz
-65.0											Ocolo Tranc
Center 1.7	10000 C	H7						Snan 8	.000 MHz		Scale Type
#Res BW			#VBW	750 kHz			Sweep	1.000 ms (1001 pts)	Log	<u>Lin</u>
MSG							STATU	JS			

Plot 7-222. Lower Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB)

Keysight Spe													
RL	RF	50 Ω	AC	CORREC		SEM	ISE:INT SO		ALIGN AUTO		M Apr 22, 2021	F	requency
PASS				PNO: F IFGain:l	ast ↔ .ow	Trig: Free #Atten: 3		#Avg	Гуре: RMS	TYI D	CE 1 2 3 4 5 6 PE A WWWWW A P N N N N		
0 dB/div	Ref 2	5.00 d	Bm						Mkr	1 1.708 9 -18.	80 GHz 86 dBm		Auto Tun
.og	e 1 Pass												Center Fre
15.0													7000000 GH
5.00													Start Fre
5.00											1.	1.70	5000000 GH
5.0	مربقه موعوب	,	وي و محمد الم	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Linesseere and a second of the	\$1~~~~~		1.70	Stop Fre
5.0													CF Ste
5.0												<u>Auto</u>	400.000 ki
5.0													Freq Offs
5.0													01
													Scale Typ
enter 1. Res BW					≠vbw	3.0 MHz			Sweep	Span 4 1.000 ms (.000 MHz (1001 pts)	Log	L
G									STATU	IS			

Plot 7-223. Lower Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB)

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Keysight Spectrum Analyzer - Swept SA					
KI RF 50Ω AC		SENSE:INT SOU Trig: Free Run #Atten: 36 dB	JRCE OFF ALIGN AUTO #Avg Type: RMS	08:59:40 PM Apr 22, 2021 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A P N N N N	Frequency
10 dB/div Ref 25.00 dBm	IFGam.Low		Mkr	1.755 016 GHz -25.07 dBm	Auto Tune
-og Trace 1 Pass 15.0	horan and and	<u>م</u>			Center Fred 1.755000000 GH;
5.00					Start Free 1.751000000 GH:
25.0		1	marmon and the second		Stop Free 1.759000000 GH
45.0					CF Ste 800.000 k⊢ <u>Auto</u> Ma
65.0					Freq Offse 0 H
Center 1.755000 GHz #Res BW 240 kHz	#VBW 7	/50 kHz	Sweep	Span 8.000 MHz 1.000 ms (1001 pts)	Scale Typ

Plot 7-224. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB)

Keysight Spe													
X/RL	RF	50 Ω	AC	CORREC		SEI	ISE:INT SO		ALIGN AUTO		M Apr 22, 2021	F	requency
PASS				PNO: F IFGain:l	ast ↔ .ow	Trig: Fre #Atten: 3			Jpernare	TYI DI			
10 dB/div Log	Ref 25	.00 di	Bm						Mkr1	1.756 0 -20.	00 GHz 91 dBm		Auto Tune
Trac	e 1 Pass						Ĭ						Center Free
15.0												1.75	8000000 GH
5.00													Start Fre
5.00												1.75	6000000 GH
15.0													Stop Fre
25.0			مەرىمەريە	-		~^ _♪ ſ~~ _₽ ₽ _₽ ₽₽	2-40.934-35-37999	<u></u>	ana ang ang ang ang ang ang ang ang ang	terror termination		1.76	0000000 GH
35.0													CF Ste 400.000 k⊢
45.0												<u>Auto</u>	400.000 KF Ma
55.0													Freq Offse
65.0													0 H
													Scale Typ
Center 1. Res BW					#VBW	3.0 MHz			Sweep	Span 4 1.000 ms (.000 MHz 1001 pts)	Log	Li
SG									STATU				

Plot 7-225. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST. Prodici la pat d 🎯 viennet	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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u Keysight Sp											- • ×
LXI RL	RF	50 Ω AC	CORREC	SEN	ISE:INT SOUR	CE OFF AVG TVP	ALIGN AUTO	08:53:31 PM	Apr 22, 2021	Fr	equency
PASS			PNO: Wide ↔ IFGain:Low	Trig: Free #Atten: 3				TYPE DE	A WWWWW A P N N N N		
10 dB/div	Ref 25	.00 dBm					Mkr1	1.709 9 -22.6	64 GHz 66 dBm		Auto Tune
Log Trac	e 1 Pass										Center Freq
15.0											0000000 GHz
5.00						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛		
5.00											Start Freq
-5.00										1.70	4000000 GHz
-15.0					1/						Stop Freq
-25.0		-shank have	and a second sec	cherror anno and	W					1.71	6000000 GHz
and the second	Near of the start										
-35.0										1	CF Step .200000 MHz
-45.0										<u>Auto</u>	Man
-55.0											Freq Offset 0 Hz
-65.0											0 H2
											Scale Type
Center 1.	710000	GHz						Span 12	2.00 MHz		
#Res BW	360 kHz		#VBW	1.2 MHz			Sweep 1	1.000 ms (1	001 pts)	Log	Lin
MSG							STATUS	S			

Plot 7-226. Lower Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

🚾 Keysight Sp													
<mark>X/</mark> RL	RF	50 Ω	AC	CORREC		SEM	ISE:INT SOU		ALIGN AUTO		M Apr 22, 2021	E	requency
PASS				PNO: I IFGain:	Fast ↔ Low	Trig: Free #Atten: 3		#Avg	Type: RMS	TY D	DE 1 2 3 4 5 6 PE A WWWWW ET A P N N N N		
10 dB/div Log	Ref 2	5.00 d	IBm						Mkr	1 1.708 9 -19.	980 GHz 25 dBm		Auto Tune
Tra	ce 1 Pas	S											Center Freq
15.0												1.70)7000000 GHz
5.00													Start Freq
-5.00												1.70)5000000 GHz
-15.0						and Second States (States (Sta	a		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	lan angu angu angu	1	4.70	Stop Freq
-25.0	1			a din industry	*********							1.70	9000000 GHz
-35.0													CF Step 400.000 kHz
-45.0												<u>Auto</u>	Mar
-55.0													Freq Offset
-65.0													
	707000									Onen			Scale Type
Center 1 #Res BW					#VBW	3.0 MHz			Sweep	Span 4 1.000 ms (.000 MHz (1001 pts)	Log	<u>Lin</u>
MSG									STAT	JS			

Plot 7-227. Lower Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

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Keysight Spectrun											- 0 💌
PASS	RF 50 Ω	P	RREC NO: Wide ↔→ Gain:Low			JRCE OFF #Avg Ty	ALIGN AUTO pe: RMS	TRAC	Apr 22, 2021 1 2 3 4 5 6 A WWWWW A P N N N N	Fr	equency
10 dB/div R	ef 25.00 d		ounicon.				Mkr1	1.755 0 -25.2	12 GHz 21 dBm		Auto Tun
-og Trace 1 15.0	Pass	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		erel .							enter Fre
5.00										1.749	Start Fre 9000000 GH
25.0				h	1	when the second	and the second second	-	Jourgeon	1.76′	Stop Fre 1000000 GH
45.0										1 <u>Auto</u>	CF Ste .200000 MH Ma
55.0 65.0										ľ	FreqOffso 0⊦
Center 1.755 Res BW 36			#VBW	1.2 MHz			Sweep 1	Span 1 .000 ms (2.00 MHz 1001 pts)	Log	Scale Typ <u>Li</u>
SG							STATUS	3			

Plot 7-228. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

Keysight Spe													
U RL	RF	50 Ω	AC	CORREC		SEN	ISE:INT SO		ALIGN AUTO		M Apr 22, 2021	F	requency
PASS				PNO: F IFGain:	ast ↔ ₋ow	Trig: Free #Atten: 3		#Avg	Type: RMS	TYI D	DE 1 2 3 4 5 6 PE A WWWWW ET A P N N N N		
0 dB/div	Ref 2	5.00 d	Bm						Mkr	1 1.756 (-21.)96 GHz 77 dBm		Auto Tun
Trac	e 1 Pas	;											Center Fre
15.0												1.75	8000000 GH
5.00													Start Fre
5.00												1.75	6000000 GH
15.0	4 ¹² -14 ² -											1 76	Stop Fre
25.0							2.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4		and the property of the second	and and a second se	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	1.70	
5.0												Auto	CF Ste 400.000 kł Mi
5.0												Auto	IVI
5.0													Freq Offs
65.0													01
enter 1.	750000	<u></u>								Onen			Scale Typ
Res BW				:	#VBW	3.0 MHz			Sweep	Span 4 1.000 ms (.000 MHz (1001 pts)	Log	L
G									STATU	JS			

Plot 7-229. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB)

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E Keysight Spectrun		it SA									- • ×
LXVI RL	RF 50 Ω	AC CC	RREC	SEN	SE:INT SOU		ALIGN AUTO	08:48:41 PM A		En	equency
PASS		I	PNO: Fast ↔→ Gain:Low	Trig: Free #Atten: 3		#Avg Ty	•	TYPE DET	1 2 3 4 5 6 A WWWWW A P N N N N		
	ef 25.00 d	Bm					Mkr	1 1.709 98 23.18-	4 GHz 3 dBm		Auto Tune
Log Trace 1	Pass						purgunation and a feature		dan markaga gar		Center Freq 0000000 GHz
-5.00										1.702	Start Freq 2000000 GHz
-15.0	alananana ana ba	يەر دەر يەر يەر يەر يەر يەر يەر يەر يەر يەر ي	hand and the second of the		1					1.718	Stop Freq 3000000 GHz
-35.0										1 <u>Auto</u>	CF Step .600000 MHz Man
-55.0										I	Freq Offset 0 Hz
-65.0 Center 1.710								Span 16.	00 MHz		Scale Type Lin
#Res BW 47	0 KHŻ		#VBW	1.6 MHz			Sweep	1.000 ms (10	01 pts)		

Plot 7-230. Lower Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

LXI RL	RF	50 Ω AC	CORREC		SEN	SE:INT SOUR	CE OFF	ALIGN AUTO		M Apr 22, 2021	F	requency
PASS			PNO: Fas IFGain:Lo		rig: Free Atten: 36				TY D			
10 dB/div	Ref 25.	00 dBm						Mkr	1 1.708 9 -21.	20 GHz 19 dBm		Auto Tune
Log Trac	e 1 Pass											Center Fred
15.0												7000000 GHz
5.00												
												Start Freq
-5.00											1.70	5000000 GHz
-15.0										1		Stop Free
-25.0			a day and the flag to be age	an market	man	ang di Tang ang sina ming ni	and the second sec	- Contractor and	and the state of t		1.70	9000000 GHz
23.0												
-35.0												CF Step 400.000 kHz
-45.0											<u>Auto</u>	Man
												F
-55.0												Freq Offset 0 Hz
-65.0												
												Scale Type
Center 1. #Res BW		Hz	#	/BW 3.	0 MHz			Sweep	Span 4 1.000 ms (.000 MHz (1001 pts)	Log	Lin
ISG								STATU		(10,00 p.10)		

Plot 7-231. Lower Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST. Prodici la pat d 🎯 viennet	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Keysight Spec												
X/RL	RF	50 Ω A0	C COR	REC	SEI	SE:INT SOU	RCE OFF	ALIGN AUTO		M Apr 22, 2021	Fi	equency
PASS				IO: Fast Sain:Low	→ Trig: Fre #Atten: 3		#Avg iy	pe. Kivis	TY	PE A WWWWW ET A P N N N N		
10 dB/div	Ref 25	.00 dBn	n					Mkr	1 1.755 4 -22.	400 GHz 07 dBm		Auto Tune
Log Trace	e 1 Pass					Ĭ					(Center Fred
15.0												5000000 GHz
5.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	an a	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	many							
F 00											1 74	Start Free 7000000 GH;
-5.00											1.74	7000000 GH
-15.0					-							Stop Free
-25.0					5.	-	and the galants	Construction of the second second	Markey Adaptor	-	1.76	3000000 GH
-35.0												CF Ste .600000 MH
45.0											<u>Auto</u>	Ma
-55.0												Freq Offse
												он
-65.0												
Center 1.7	255000 (GHz							Span 1	16.00 MHz		Scale Type
#Res BW				#VE	SW 1.6 MHz			Sweep	1.000 ms	(1001 pts)	Log	Lir
ISG								STATU	JS			

Plot 7-232. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

Keysight Spe													
X/RL	RF	50 Ω	AC	CORREC		SEN	SE:INT SOU		ALIGN AUTO		M Apr 22, 2021	F	requency
PASS				PNO: Fa IFGain:L		Trig: Free #Atten: 3			ype. Rino	TY			
10 dB/div Log	Ref 25.	00 dE	3m						Mkr	1 1.756 1 -19.	l00 GHz 62 dBm		Auto Tune
15.0 Trac	e 1 Pass												Center Freq 8000000 GHz
5.00													
-5.00												1.75	Start Free 6000000 GH:
15.0													Stop Free
-25.0	*******	1.000 million (1.000)	Mate - The object	ann an thair an the second the second the second terms of t	**********	and a second	10-2-2-4804(+3-4 ₂ -42-4)	which these sources of the		ىچى يىدە ^{لى} مىرى قەمىرە مى	⁴ 6 ⁷ /m ² 16/m ² 16/m ² /m ²	1.76	0000000 GH
35.0												Auto	CF Stej 400.000 kH Ma
45.0												<u>Auto</u>	
65.0													Freq Offse 0 H
													Scale Type
Center 1.7 #Res BW				#	VBW	3.0 MHz			Sweep	Span 4 1.000 ms (l.000 MHz (1001 pts)	Log	Lir
ISG									STATU	s			

Plot 7-233. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB)

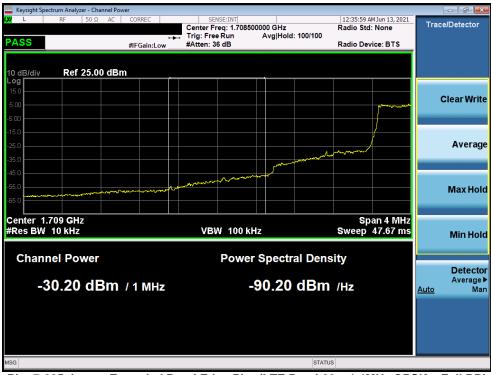
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LTE Band 66

	ctrum Analyzer - Swe	pt SA									
RL	RF 50 Ω	AC CO	ORREC	SEN	ISE:INT SOU		ALIGN AUTO		M Apr 23, 2021	E	requency
PASS			PNO: Wide ↔ FGain:Low	Trig: Free #Atten: 3		#Avg Typ	e:RMS	TY	E 1 2 3 4 5 6 E A WWWW A N N N N N		
0 dB/div	Ref 25.00 c	∄Bm					Mkr1	1.709 9 -22.	96 GHz 98 dBm		Auto Tur
Trace	e 1 Pass										Center Fre
15.0											0000000 GH
5.00					~~~~	~~~~~					
											Start Fre
5.00					L					1.70	8000000 GI
15.0					1						Stop Fre
					ļi —				~	1.71	2000000 GI
25.0				\sim							
5.0		Γ									CF Ste
	~~~	$\sim$									400.000 k
5.0	~~~~~									<u>Auto</u>	М
5.0											Freq Offs
											01
35.0											
											Scale Ty
enter 1.7 Res BW	710000 GHz		#\/B\M	110 kHz			Sween 1	Span 4	.000 MHz 1001 pts)	Log	L
G G	55 MHZ		# V D V V	TTO KI12					roor pts)		
í							STATUS				

Plot 7-234. Lower Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)



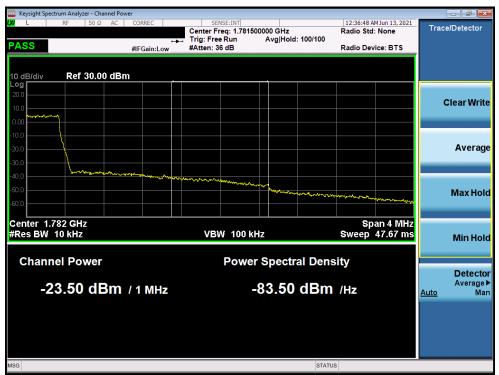
Plot 7-235. Lower Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)

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Keysight Spectrum Analyzer - Swep					
<mark>X/</mark> RL RF 50 Ω	AC CORREC	SENSE:INT SOU	RCE OFF ALIGN AUTO #Avg Type: RMS	12:33:23 AM Apr 23, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide ↔ IFGain:Low	<ul> <li>Trig: Free Run #Atten: 36 dB</li> </ul>	with the second	TYPE A WWWWW DET A NNNN	
10 dB/div Ref 25.00 d	IBm		Mkr1	1.780 004 GHz -35.24 dBm	Auto Tune
Trace 1 Pass		Ĭ			Center Fred
15.0					1.780000000 GHz
5.00		$\sim $			
					Start Free
-5.00					1.778000000 GH
15.0					Stop Fre
25.0					1.782000000 GH
23.0		1			
35.0					CF Ste 400.000 kH
45.0				- ~~~~	<u>Auto</u> Ma
.55.0					Freq Offse 0 H
65.0					
					Scale Type
Center 1.780000 GHz #Res BW 33 kHz	#VBW	/ 110 kHz	Sweep 1	Span 4.000 MHz .400 ms (1001 pts)	Log <u>Lir</u>
ISG	<i>"</i> <b>vo</b> v		STATUS		

Plot 7-236. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)



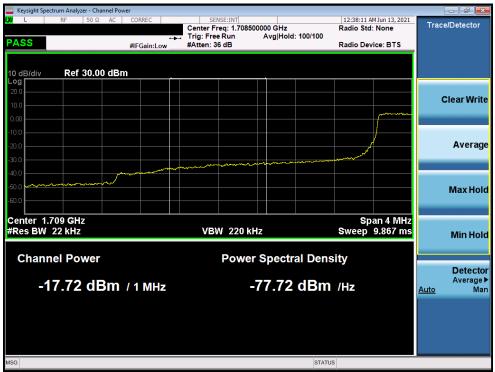
Plot 7-237. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB)

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	um Analyzer - Swept SA							
RL	RF 50 Ω AC	CORREC	SENSE:INT SO	URCE OFF AL #Avg Type	IGN AUTO	12:27:12 AM Apr 23, 2021 TRACE 1 2 3 4 5 6	Fr	equency
ASS		PNO: Wide ↔→ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type	RIVIS	TYPE A WWWWW DET A NNNN		
0 dB/div	Ref 25.00 dBn	n			Mkr1	1.709 992 GHz -19.23 dBm		Auto Tun
og Trace	1 Pass						-	Contor Ero
15.0								enter Fre
13.0							1.710	0000000 GH
5.00				~~~~				
5.00								Start Fre
5.00							1 70	B000000 GH
							1.70	00000000
			1					
15.0								Stop Fre
							1.71	2000000 GH
25.0								
$\sim$	$\sim$							
5.0								CF Ste 400.000 kl
							Auto	400.000 Ki
5.0								
								_
5.0								Freq Offs
								01
65.0								
								Scale Typ
enter 1 71	10000 GHz		A			Span 4.000 MHz		
Res BW 7		#VBW	240 kHz	S	weep 1	.000 ms (1001 pts)	Log	<u> </u>
G					STATUS			

Plot 7-238. Lower Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)



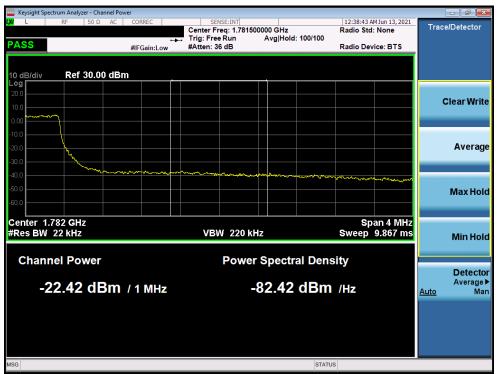
Plot 7-239. Lower Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST Proud to ler part of @ viewnest	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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RL         RF         50 Ω         AC           PASS         O         dB/div         Ref 25.00 dBm         G           0 dB/div         Trace 1 Pass         15.0         15.0         15.0         15.0	PNO: Wide ↔ IFGain:Low	SENSE:INT SOU Trig: Free Run #Atten: 36 dB	#Avg Typ		12:30:24 AM Apr 2 TRACE 12 TYPE A V DET A N 1.780 004 -21.03	GHz	requency Auto Tun
og Trace 1 Pass				Mkr1	1.780 004 -21.03	GHz dBm	Auto Tur
15.0 Trace 1 Pass	~~~~~						
5.00	~						Center Fre 80000000 GH
.00						1.7	<b>Start Fre</b> 78000000 GH
5.0						1.7	<b>Stop Fr</b> 82000000 GI
5.0			~~~~~		·····	Auto	CF Ste 400.000 ki M
5.0							Freq Offs 0
enter 1.780000 GHz Res BW 75 kHz	#VBW :	240 kHz		Sweep 1	Span 4.000 .000 ms (100	0 MHz 1 pts)	Scale Typ

Plot 7-240. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)



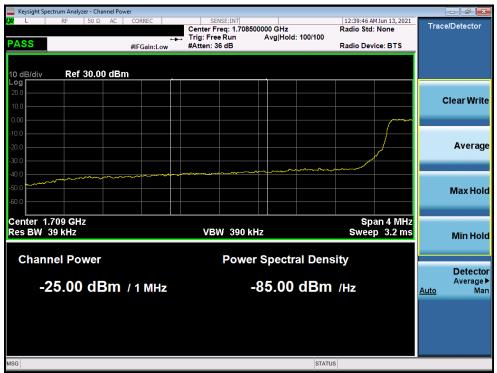
Plot 7-241. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB)

FCC ID: BCGA2568		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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Keysight Spectrum Analyzer -					
RL RF 50	Ω AC CORREC	SENSE:INT S		12:24:12 AM Apr 23, 2021	Frequency
ASS	PNO: Wide IFGain:Lov		#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNN	
0 dB/div Ref 25.00	) dBm		Mkr	1 1.709 964 GHz -22.06 dBm	Auto Tun
Trace 1 Pass					Center Fre
15.0					1.710000000 GH
				a	1.710000000 811
5.00					
					Start Fre
5.00					1.708000000 GH
15.0					
					Stop Fre
25.0					1.712000000 GH
······	~~~				
35.0					CF Ste
					400.000 kł Auto Ma
15.0					<u>Auto</u> Ma
55.0					Freq Offs
					0 H
65.0					
					Scale Typ
enter 1.710000 GH	z			Span 4.000 MHz	
Res BW 120 kHz		/BW 390 kHz	Sweep	1.000 ms (1001 pts)	Log <u>L</u>
SG			STATU	2	

Plot 7-242. Lower Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)



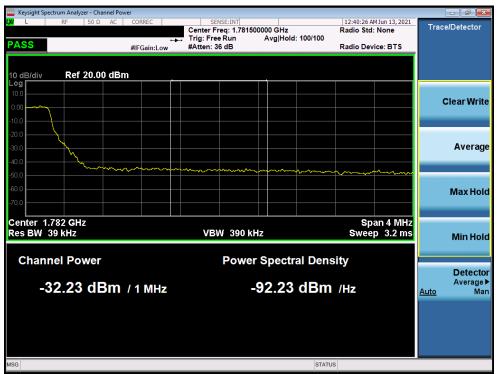
Plot 7-243. Lower Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK - Full RB)

FCC ID: BCGA2568		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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Keysight Spectrum Analyzer - Swept SA					- • •
RL RF 50Ω AC	CORREC	SENSE:INT SOU	JRCE OFF ALIGN AUTO #Avg Type: RMS	12:25:48 AM Apr 23, 2021 TRACE 1 2 3 4 5 6	Frequency
ASS	PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type. Rivis		
0 dB/div Ref 25.00 dBm			Mkr1	1.780 004 GHz -22.75 dBm	Auto Tur
Trace 1 Pass		Ĭ			Center Fre
15.0					1.780000000 GH
5.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~			
5.00					Start Fre
5.00					1.778000000 GH
5.0					Stop Er
		\ <b>\</b>			Stop Fre 1.782000000 GF
25.0		han			1.10200000000
			many		CF Ste
35.0					400.000 kl
5.0					<u>Auto</u> M
55.0					Freq Offs
					01
65.0					
					Scale Typ
enter 1.780000 GHz		A		Span 4.000 MHz	Log <u>L</u>
Res BW 120 kHz	#VBW	390 kHz	Sweep 7	.000 ms (1001 pts)	
G			STATU	3	

Plot 7-244. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)



Plot 7-245. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB)

FCC ID: BCGA2568	Road to be part of @-connect	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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E Keysight Spec		- Swept SA							
L <mark>XI</mark> RL	RF	50 Ω AC	CORREC	SENSE:INT SO		LIGN AUTO	12:20:56 AM Apr 23, 20		Frequency
PASS			PNO: Wide ↔→ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type	RMS	TRACE 1 2 3 4 TYPE A WWW DET A NNN	WW+	
10 dB/div Log	Ref 25.0	00 dBm				Mkr1	1.709 992 GI -23.34 dB	lz m	Auto Tune
15.0 <b>Trace</b>	e 1 Pass				man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	fra de mar a construction de la construcción de	1.7	<b>Center Freq</b> 710000000 GHz
-5.00								1.3	Start Freq 706000000 GHz
-15.0	mm	m	and the second					1.3	<b>Stop Freq</b> 714000000 GHz
-35.0								Auto	CF Step 800.000 kHz Man
-55.0									Freq Offset 0 Hz
Center 1.7 #Res BW		Hz	#VBW	750 kHz		Sween 1	Span 8.000 M .000 ms (1001 p	Hz Log	Scale Type Lin
MSG	210 1112					STATUS			

Plot 7-246. Lower Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)

E Keysight Spe													
LXI RL	RF	50 Ω	AC	CORREC		SEN	SE:INT SOL		ALIGN AUTO		M Apr 23, 2021	F	requency
PASS				PNO: Fa IFGain:L		Trig: Free #Atten: 3		mitg i	ype. Rino	TY			
10 dB/div Log	Ref 25.	00 dB	m						Mkr	1 1.708 9 -18.	96 GHz 28 dBm		Auto Tune
15.0	e 1 Pass												<b>Center Freq</b> 07000000 GHz
-5.00												1.70	Start Freq 5000000 GHz
-15.0	ng nangan mining di kang	**le=*e	******	Lart And Ampter	~	and a start and a start of the st		and an and a second second		and the second states of the s		1.70	Stop Freq 9000000 GHz
-35.0												<u>Auto</u>	<b>CF Step</b> 400.000 kHz Man
-55.0													Freq Offset 0 Hz
Center 1. #Res BW						3.0 MHz			Sweep	Span 4 1.000 ms (	1.000 MHz		Scale Type <u>Lin</u>
#Res DW ^{MSG}	T.O IMINZ			#		5.0-WINZ			Sweep		roor pis)		

Plot 7-247. Lower Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST. Produits for pert of Selectors	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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				- • ×
. Trig: Free Ru #Atten: 36 dB		ALIGN AUTO pe: RMS	12:22:48 AM Apr 23, 2021 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNN	Frequency
		Mkr1	1.780 040 GHz -22.48 dBm	Auto Tune
~~				Center Fred 1.780000000 GH2
				Start Free 1.776000000 GH:
1	man and a second	man man	hand and have a second	Stop Free 1.784000000 GH:
				CF Ste 800.000 k⊢ <u>Auto</u> Ma
				Freq Offse 0 H
750 kHz		Sweep 1	Span 8.000 MHz .000 ms (1001 pts)	Scale Type
17	′50 kHz	/50 kHz		Span 8.000 MHz 50 kHz Sweep 1.000 ms (1001 pts) status

Plot 7-248. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)

Keysight Spe													
X/RL	RF	50 Ω	AC	CORREC		SEN	ISE:INT SOU		ALIGN AUTO		M Apr 23, 2021	F	requency
PASS				PNO: Fa IFGain:L	ast ↔ ow	Trig: Free #Atten: 3		#0.481	ype. Kwo	TY D	PE A WWWWW ET A NNNNN		
10 dB/div Log	Ref 25.	00 dE	3m						Mkr	1 1.781 ( -18.	000 GHz 46 dBm		Auto Tune
15.0 Trace	e 1 Pass												Center Freq 33000000 GHz
-5.00												1.78	Start Fred 31000000 GH;
-15.0 1			بمريسي	an the face and the second	hana a	<mark>የቀይ</mark> ንናቀ _ለ በምራ ት _ግ ያት _{ግሥ}	ad you have been deal	front the manufactory	and physical states	here and the stand of the stand	del ano and	1.78	<b>Stop Fred</b> 35000000 GH
45.0												<u>Auto</u>	CF Stej 400.000 kH Mai
65.0													Freq Offse 0 H
Center 1.7	783000 <b>C</b>	Hz								Span 4	1.000 MHz	Log	Scale Type
#Res BW	1.0 MHz			#	¢VBW	3.0 MHz				1.000 ms	(1001 pts)	Log	
ISG									STATU	JS			

Plot 7-249. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST Predicible to the part of @wennert	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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	rum Analyzer - Swej										- • •
LXI RL	RF 50 Ω	AC	CORREC	SEN	SE:INT SOUR	CE OFF	ALIGN AUTO	12:18:31 AM Ap	r 23, 2021 2 3 4 5 6	Fre	quency
PASS			PNO: Wide ↔ IFGain:Low	Trig: Free #Atten: 30		#Avg typ	e: RIVIS	TYPE A	23456 WWWWW NNNNN		
10 dB/div	Ref 25.00 d	IBm					Mkr1	1.709 952   21.92-	2 GHz dBm		Auto Tune
15.0	1 Pass				سر		- when an an all the	han a second a second			<b>enter Freq</b> 000000 GHz
-5.00										1.704	Start Freq 000000 GHz
-15.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	www	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1 4					1.716	Stop Freq 000000 GHz
-35.0										1. <u>Auto</u>	<b>CF Step</b> 200000 MHz Man
-55.0										F	F <b>req Offset</b> 0 Hz
Center 1.7 #Res BW 3			#\/B\/	1.2 MHz			Sween_	Span 12.0 1.000 ms (10	00 MHz		Scale Type Lin
MSG				1.22 1011/2			STATU		o i pio)		

Plot 7-250. Lower Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)

L <mark>XI</mark> RL	RF	50 Ω	AC	CORREC		SEM	ISE:INT SOU		ALIGN AUTO	12:18:41 A	M Apr 23, 2021	F	requency
PASS				PNO: F IFGain:l	ast ↔ .ow	Trig: Free #Atten: 3		#Avg	Type: RMS	TYF	E 1 2 3 4 5 6 E A WWWW T A N N N N N		
10 dB/div Log	Ref 25	.00 dE	3m						Mkr1	1.708 8 -18.	44 GHz 60 dBm		Auto Tune
15.0	e 1 Pass												<b>Center Freq</b> 07000000 GHz
-5.00												1.70	Start Freq 05000000 GHz
-15.0		1 ⁴ 5000 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040 - 1040	بەر «ارزار» مىلەر «ار	alphanger of Marian	1. J. J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	an a she an a she a she a she a she a			,			1.70	Stop Freq 09000000 GHz
-35.0												<u>Auto</u>	<b>CF Step</b> 400.000 kHz Man
-55.0													Freq Offset 0 Hz
Center 1. #Res BW					#VBM	3.0 MHz			Sweep	Span 4 1.000 ms (	.000 MHz	Log	Scale Type Lin
MSG						0.0 101112			STATU		1001 (1003)		

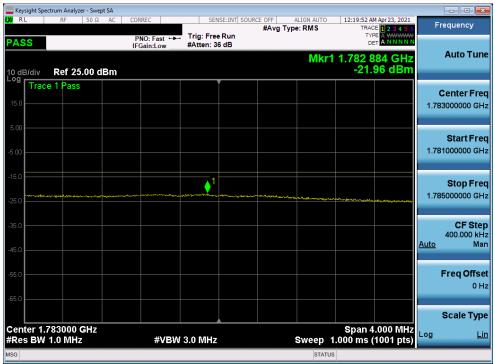
Plot 7-251. Lower Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)

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	ctrum Analyzer - S										
	RF 50	Ω AC	PNO: Wide	Trig: Free #Atten: 3		CE OFF	ALIGN AUTO e: RMS	TRA TY	M Apr 23, 2021 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	F	requency
10 dB/div	Ref 25.00	dBm	IFGain:Low	#Atten: 3	o dB		Mkr1	1.780	)36 GHz 94 dBm		Auto Tune
15.0	e 1 Pass	m	Maray warehouse and the	~~~,							Center Fre
5.00										1.77	<b>Start Fre</b> 4000000 G⊦
25.0					1	- hadron war	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	- Andrew and a state	1.78	<b>Stop Fre</b> 6000000 G⊦
35.0 <b></b> 45.0 <b></b>										<u>Auto</u>	CF Ste 1.200000 MH Ma
55.0 <u> </u>											Freq Offs 0 F
enter 1.7 Res BW	780000 GH 360 kHz	z	#VBW	1.2 MHz			Sweep 1	Span ′ .000 ms	12.00 MHz (1001 pts)	Log	Scale Typ
MSG	500 KH2		<i></i>	1.2 191112			STATUS		(Too Pita)		

Plot 7-252. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)



Plot 7-253. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST Prost is be part of @commert	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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	ctrum Analyzer - Sw										
XI RL	RF 50 9	AC (	CORREC	SEN	ISE:INT SOUF	CE OFF	ALIGN AUTO		4 Apr 23, 2021	Er	equency
PASS			PNO: Fast ↔→ IFGain:Low	Trig: Free #Atten: 3		#Avg Ty		TYF	E 1 2 3 4 5 6 E A WWWW T A NNNN		
10 dB/div	Ref 25.00	dBm					Mkr	1 1.709 7 _22.	'60 GHz 21 dBm		Auto Tun
Trac	e 1 Pass										Center Fre
15.0										1.71	0000000 GH
5.00						1	wanter and the second	and so we are the source of	~~,p,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
										1 70	Start Fre
5.00										1.70	2000000 GH
15.0					1						Stop Fre
25.0				and the second s	للمس					1.71	8000000 GH
	ر مریکم میں القریف القوں میں والایں	- and and the second	And the state of t								
35.0										1	CF Ste
45.0										<u>Auto</u>	Ma
55.0											e <b>Freq Offs</b> ۱۱
65.0											
											Scale Typ
enter 1. Res BW	710000 GHz		#\/B\M	1.6 MHz			Sween	Span 1 1.000 ms (	6.00 MHz	Log	L
SG	47 V KHZ		#0000	1.0 10112			Sweep	_	roor pts)		

Plot 7-254. Lower Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)

Keysight Spe													
XI RL	RF	50 Ω	AC	CORREC		SEN	ISE:INT SO		ALIGN AUTO	12:15:51 A	M Apr 23, 2021 CE 1 2 3 4 5 6	F	requency
PASS				PNO: I IFGain:	Fast ↔ Low	Trig: Free #Atten: 3		#Avg i	ype: RWS	TY			
10 dB/div	Ref 25	i.00 d	Bm						Mkr	1 1.708 9 -19.	984 GHz .92 dBm		Auto Tune
og Trac	e 1 Pass												Center Fre
15.0												1.70	7000000 GH
5.00												4.70	Start Fre
5.00												1.70	5000000 GF
25.0		₩~₽₽₽₩₽₽₩₽₽	las-ventoras	******		مل الله ميدود رومي ال	and and a start of the start of	nglan an anna an	Lion gran and and	and a lange of the state of the		1.70	<b>Stop Fre</b> 9000000 GH
35.0													CF Ste
5.0												<u>Auto</u>	400.000 kl Ma
5.0													Freq Offs
5.0													01
													Scale Typ
enter 1. Res BW					#VBW	3.0 MHz			Sweep	Span 4 1.000 ms	4.000 MHz (1001 pts)	Log	L
SG									STAT	US			

Plot 7-255. Lower Extended Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)

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C SET D: Fast →→ in:Low #Atten: 3	e Run	#Avg Type: RMS	S TRACE TYPE DE Ikr1 1.780 0	12:34:56 ANNINN 34 GHz 3 dBm 1.	Frequency Auto Tun Center Fre 78000000 GH Start Fre 772000000 GH Stop Fre 788000000 GH
	1	M	lkr1 1.780 0 -27.4	3 dBm 1.	<b>Center Fre</b> 78000000 GH <b>Start Fre</b> 772000000 GH <b>Stop Fre</b>
	1			1.	78000000 GH Start Fre 772000000 GH Stop Fre
	1				772000000 GH Stop Fre
	1			1.	
		a mentana fato ana da sera a	we want the second	and the second	1000000000
				Aut	CF Ste 1.600000 Mi 2 Mi
					Freq Offs 0 I
			Epop 4	001 ptc)	Scale Typ
				Span 16 #VBW 1.6 MHz Sweep 1.000 ms (1	Span 16.00 MHz

Plot 7-256. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)

LXI RL	RF	50 Ω AC	CORREC		SEN	SE:INT SOU		ALIGN AUTO	12:17:21 AM	Apr 23, 2021 1 2 3 4 5 6	Fi	requency
PASS			PNO: Fa IFGain:L		Trig: Free #Atten: 36		<i></i>	peritato	TYPE	A WWWWW A NNNNN		
10 dB/div	Ref 25.	00 dBm						Mkr1	1.783 99 -26.3	92 GHz 1 dBm		Auto Tune
15.0	e 1 Pass											<b>Center Freq</b> 3000000 GHz
-5.00											1.78	Start Fred 1000000 GHz
-15.0	9-33/ ⁻⁸ 04-871-14-2-14/		(Arana) (Arana) (Arana)	=operfection	thins in the second	hangalagenedike	elt and the manual the	<b>1</b>	the start of the same for the same	1966 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 - 1967 -	1.78	Stop Freq 5000000 GHz
-35.0											<u>Auto</u>	CF Step 400.000 kH Mar
-55.0												Freq Offse 0 H:
Center 1.7 #Res BW		Hz			.0 MHz			Sween 1	Span 4.0 .000 ms (1	000 MHz	Log	Scale Type <u>Lir</u>
MSG	1.0 10112		7					SWEEP		oor pis)		

Plot 7-257. Upper Extended Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST Trud lo le part d & dement	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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## LTE Band 71

Keysight Spectrum Analyzer - Swept SA					- F 💌
RL RF 50Ω AC		SENSE:INT SOU	RCE OFF ALIGN AUTO #Avg Type: RMS	09:44:41 PM Apr 25, 2021 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency
ASS 0 dB/div Ref 25.00 dBm	IFGain:Low #A	Atten: 36 dB	Mkr1	662.987 5 MHz -25.90 dBm	Auto Tun
15.0		~~~~		ung	Center Fre 663.000000 MH
5.00					Start Fre 656.750000 M⊦
25.0		1			Stop Fre 669.250000 MH
15.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				CF Ste 1.250000 MH Auto Ma
55.0					Freq Offs 0 F
				Onon 12 50 Mile	Scale Typ
enter 663.000 MHz Res BW 100 kHz	#VBW 30	0 kHz	Sweep 1	Span 12.50 MHz .000 ms (1001 pts)	

Plot 7-258. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB)



Plot 7-259. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST Prodit to be part of @verneer	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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	ectrum Analyzer	- Swept SA						- ē <mark>×</mark>
XI RL	RF	50 Ω AC	CORREC	SENSE:	INT SOURCE OFF	ALIGN AUTO Type: RMS	09:42:51 PM Apr 25, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Fast ↔ IFGain:Low	Trig: Free Ru #Atten: 36 dl	un C		TYPE A WWWWW DET A NNNN	A
10 dB/div Log	Ref 25.0	00 dBm				Mk	r1 662.975 MHz -31.18 dBm	Auto Tune
15.0 Trac	e 1 Pass							Center Fred 663.000000 MH
5.00								Start Free 650.500000 MH
-15.0								Stop Free 675.500000 MH
45.0				m				<b>CF St</b> ej 2.500000 MH <u>Auto</u> Ma
55.0	mmmm	m						Freq Offse 0 H
65.0								Scale Typ
Center 66 ≉Res BW	3.00 MHz 100 kHz		#VBW	300 kHz		Sweep	Span 25.00 MHz 1.200 ms (1001 pts)	Log <u>Li</u> ı
ISG						STATU	IS	

Plot 7-260. Lower Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB)



Plot 7-261. Upper Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST Proud to ler part uf @ viewered	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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	ctrum Analyzer	- Swept SA					
L <mark>XI</mark> RL	RF 5	OΩ AC	CORREC	SENSE:INT S	OURCE OFF ALIGN AUTO #Avg Type: RMS	09:38:42 PM Apr 25, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS			PNO: Fast ++- IFGain:Low	Trig: Free Run #Atten: 36 dB	• //		Auto Tune
10 dB/div Log	Ref 25.0	0 dBm			Mkr	1 662.962 5 MHz -30.23 dBm	Auto Tune
15.0 Trace	e 1 Pass						Center Freq 663.000000 MHz
-5.00							Start Free 644.250000 MH:
-15.0							Stop Free 681.750000 MH
35.0				and and		horn	<b>CF Stej</b> 3.750000 MH <u>Auto</u> Ma
55.0	<u></u>	<u>~~~</u> /~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~				Freq Offse 0 H
-65.0							Scale Type
Center 66 #Res BW			#VBW	510 kHz	Sweep	Span 37.50 MHz 1.000 ms (1001 pts)	Log <u>Lir</u>
MSG					STAT	US	

Plot 7-262. Lower Band Edge Plot (LTE Band 71 - 15MHz QPSK - Full RB)



Plot 7-263. Upper Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST Proud to ler part uf @ viewered	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager	
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	ectrum Analyz	zer - Swep	t SA									-	- 6 💌
LXI RL	RF	50 Ω	AC	CORREC		SEN	NSE:INT SO		ALIGN AUTO ype: RMS		M Apr 25, 2021 CE <b>1 2 3 4 5 6</b>	Fre	quency
PASS				PNO: Fa IFGain:L	ist ↔ ow	Trig: Free #Atten: 3				TY D			
10 dB/div	Ref 25	.00 dE	3m						N	1kr1 662 -31.	.95 MHz 83 dBm		Auto Tune
Log Trace	e 1 Pass												enter Freq 100000 MHz
-5.00								<u>, , , , , , , , , , , , , , , , , , , </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Start Fred 000000 MH2
-15.0													Stop Fred 100000 MH:
-35.0					سر	and the second sec					Jon man w	5.0 <u>Auto</u>	CF Step 100000 MH Mai
55.0	m	-n	nnum	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<i></i>							F	r <b>eq Offse</b> 0 H
-65.0													cale Type
Center 66 #Res BW				#	VBW	680 kHz			Sweep	Span : 1.000 ms	60.00 MHz (1001 pts)	Log	Lin
MSG									STATU	JS			

Plot 7-264. Lower Band Edge Plot (LTE Band 71 - 20MHz QPSK - Full RB)

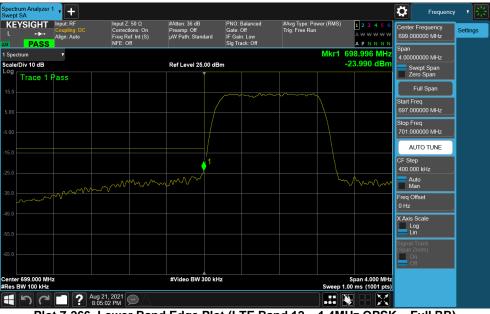


Plot 7-265. Upper Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB)

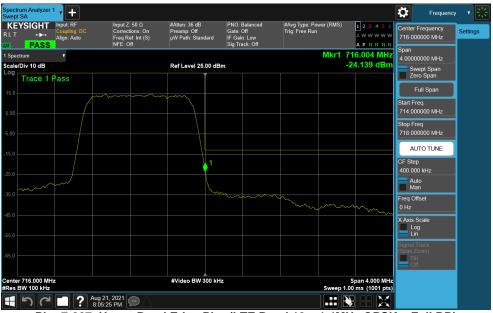
FCC ID: BCGA2568	PCTEST. Predicible part of @ dervert	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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## LTE Band 12



Plot 7-266. Lower Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB)



Plot 7-267. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST*	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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KEYSIGHT     Input: RF       L     Imput: RF       Align: Auto	Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Off	#Atten: 36 dB Preamp: Off μW Path: Standard	PNO: Balanced Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS) Trig: Free Run	1 2 3 4 5 6 A W W W W A N N N N N	Center Frequency 699.000000 MHz Span	Setting
Spectrum v ale/Div 10 dB		Ref Level 25.00 dB	im		698.996 MHz -20.013 dBm	4.00000000 MHz	
Trace 1 Pass						Zero Span Full Span	
				~~~~~		Start Freq 697.000000 MHz	
						Stop Freq 701.000000 MHz	
0		/1-				AUTO TUNE	
		M				400.000 kHz Auto Man	
0						Freq Offset 0 Hz	
0						X Axis Scale Log Lin	1
						Signal Track (Span Zoom) On	
nter 699.000 Mila		#Video BW 300 kH	-		Span 4.000 MHz	Off	
enter 699.000 MHz Res BW 100 kHz	21, 2021	#Video BW 300 kH	z		Span 4.000 MHz .00 ms (1001 pts)		

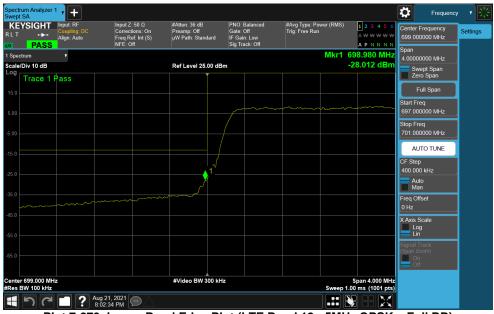
Plot 7-268. Lower Band Edge Plot (LTE Band 12 - 3MHz QPSK - Full RB)



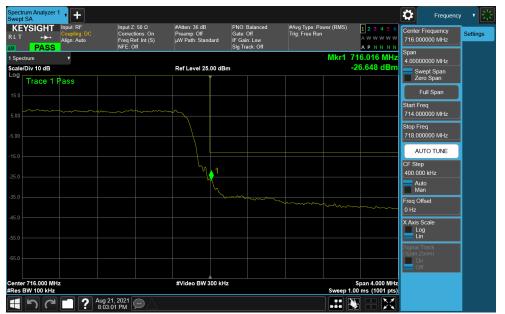
Plot 7-269. Upper Band Edge Plot (LTE Band 12 - 3MHz QPSK - Full RB)

FCC ID: BCGA2568	PCTEST. Predicible per di @ sierzed	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-270. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB)



Plot 7-271. Upper Band Edge Plot (LTE Band 12 - 5MHz QPSK - Full RB)

FCC ID: BCGA2568	PCTEST Proud to ler part of @ viewnest	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Plot 7-272. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB)

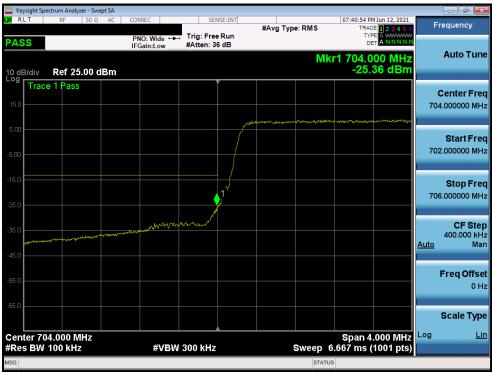




FCC ID: BCGA2568	PCTEST. Prode bie pet di @ enteret	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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LTE Band 17



Plot 7-274. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK - Full RB)



Plot 7-275. Upper Band Edge Plot (LTE Band 17 - 5MHz QPSK – Full RB)

FCC ID: BCGA2568	The set of	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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	ctrum Analyze												
X/RLT	RF	50 Ω /	AC CC	RREC		SEN	ISE:INT	#Avg Ty	e RMS	TRAC	MJun 12, 2021	F	requency
PASS				NO: Wi Gain:Lo	de ⊶⊶ ow	Trig: Free #Atten: 3				TYI DI			
10 dB/div Log 👝	Ref 25.	00 dBi	m						Μ	kr1 704.0 -31.	00 MHz 78 dBm		Auto Tune
15.0	e 1 Pass												Center Fred 4.000000 MH:
-5.00												70:	Start Fred 2.000000 MH
-15.0							1					70	Stop Free 5.000000 MH:
35.0	Non-extensionalisers)	war	وسريتيه مسريات			Aparenapurat	.					<u>Auto</u>	CF Stej 400.000 kH Ma
55.0													Freq Offse 0 H
65.0													Scale Typ
Center 70 #Res BW		z		#	VBW	300 kHz			Sweep	Span 4 6.667 ms (.000 MHz 1001 pts)	Log	Lii
ISG									STA	TUS			

Plot 7-276. Lower Band Edge Plot (LTE Band 17 - 10MHz QPSK - Full RB)



Plot 7-277. Upper Band Edge Plot (LTE Band 17 - 10MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST. Predicible part of @ dervert	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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LTE Band 13



Plot 7-278. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB)



Plot 7-279. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB)

FCC ID: BCGA2568	PCTEST Prod b be part of @removed	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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RL RF 50 Ω AC ASS	CORREC PNO: Wide ↔→ IFGain:Low			#Avg Typ	ALIGN AUTO	10:02:27 PM TRACE	123456	Fr	equency
)d						DET			
9					Mki	r1 787.00 -23.2	04 MHz 2 dBm		Auto Tur
Trace 1 Pass		~~~							Center Fre
00								785	Start Fr 6.000000 M
5.0			1					789	Stop Fr 0.000000 M
.0								<u>Auto</u>	CF Ste 400.000 k M
5.0									Freq Offs 0
enter 787.000 MHz Res BW 100 kHz	#VBW	300 kHz			Sweep_1	Span 4. .000 ms (1	000 MHz	Log	Scale Tyj

Plot 7-280. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB)

Keysight Spectrum Analyzer - Swept SA					- ¢ ×
LX/ R L RF 50 Ω AC	CORREC	SENSE:INT SOUR	CE OFF ALIGN AUTO #Avg Type: RMS	10:06:08 PM Apr 25, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS		Trig: Free Run #Atten: 36 dB			Auto Tune
10 dB/div Ref 20.00 dBm	1		Mkr1 7	793.445 25 MHz -52.08 dBm	Auto Tune
Trace 1 Pass		ľ			Center Freq
10.0					799.500000 MHz
0.00					Start Freq
-10.0					793.000000 MHz
-20.0					Stop Freq
-30.0					806.000000 MHz
					CF Step
-40.0					1.300000 MHz <u>Auto</u> Man
-50.0					
	manutility and and a second second				Freq Offset 0 Hz
-70.0		and the second	มาระวังหมายรู้ เป็นหมายรู้ และ เหมียาไปรักษณ์ เกมาะ	hyrennysenddraegnaetharanglyddyddiadaethadhyganaendd	October T
					Scale Type
Center 799.500 MHz #Res BW 6.8 kHz	#VBW 3	l0 kHz	Sweep 8	Span 13.00 MHz 8.53 ms (4001 pts)	Log <u>Lin</u>
MSG			STATUS	3	

Plot 7-281. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB)

FCC ID: BCGA2568	PCTEST. Prodice la part of @ dervert	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					
XIRL RF 50Ω AC	CORREC	SENSE:INT SOU	JRCE OFF ALIGN #Avg Type: RN		Frequency
PASS	PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type. Riv		
IO dB/div Ref 25.00 dBm				Mkr1 776.944 MHz -29.62 dBm	Auto Tune
Og Trace 1 Pass		Ĭ			Center Fred
15.0					777.000000 MHz
5.00				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Start Free
5.00					775.000000 MH
15.0					
					Stop Free 779.000000 MH
-25.0		<u>سلم م</u> ړا ∕			775.000000 1111
35.0	~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			CF Ste
	- man				400.000 kH
-45.0					<u>Auto</u> Ma
-55.0					Freq Offse
65.0					0 H
					Coolo Trav
Center 777.000 MHz				Spop 4 000 MHz	Scale Type
Res BW 100 kHz	#VBW	300 kHz	Swe	Span 4.000 MHz ep 1.000 ms (1001 pts)	Log <u>Lii</u>
ISG				STATUS	

Plot 7-282. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB)

🚾 Keysight Spectrum Analyzer - Swept					– ē 🔀
LX/ RL RF 50 Ω	AC CORREC	SENSE:INT SOU	JRCE OFF ALIGN AUTO #Avg Type: RMS	09:52:44 PM Apr 25, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide	Trig: Free Run #Atten: 36 dB			
10 dB/div Ref 15.00 dB	m		Mk	r1 772.921 MHz -64.82 dBm	Auto Tune
Trace 1 Pass					Center Freq
5.00					769.000000 MHz
-5.00					Start Freq
-15.0					763.000000 MHz
-25.0					Stop Freq
-35.0					775.000000 MHz
-45.0					CF Step 1.200000 MHz
-55.0					<u>Auto</u> Mar
-65.0				♦ ¹	Freq Offset
-75.0	ter (m) - m faithe faithe differ of the faither faither for the faither of the fa	toyan a tiya ana na pakataki sh	gited biogeth i through yet faiter for a third attention of the second second second second second second second	Aller (1997 - Constant of Antiple Service States)	0 Hz
-73.0					Scale Type
Center 769.000 MHz #Res BW 6.8 kHz	#VBW	30 kHz	Sweep 8	Span 12.00 MHz 1.87 ms (4001 pts)	Log <u>Lin</u>
MSG			STATU		

Plot 7-283. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB)

FCC ID: BCGA2568	PCTEST Proud to be part of & demend	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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www.www.com.com.com.com.com.com.com.com.com.com						
LX/RL RF 50	Ω AC CORREC	SEI	SE:INT SOURCE OF	F ALIGN AUTO	10:00:42 PM Apr 22, 2021 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wi IFGain:L		e Run	tvg Type: Rivis		
10 dB/div Ref 25.00	dBm			Mk	r1 787.012 MHz -28.48 dBm	Auto Tur
Log Trace 1 Pass	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					Center Fre 787.000000 MF
-5.00						Start Fre 785.000000 MH
-15.0		Long and	1			Stop Fre 789.000000 MH
-95.0					······································	CF Ste 400.000 kH <u>Auto</u> Ma
-55.0						Freq Offs 0 H
Center 787.000 MHz #Res BW 100 kHz		VBW 300 kHz		Swoon	Span 4.000 MHz .000 ms (1001 pts)	Scale Typ
	#	VBW 300 KH2		sweep	.000 ms (1001 pts)	
				314103	1	

Plot 7-284. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB)

🔤 Keysight Sp	ectrum Analyze	er - Swep	pt SA										- ē X
L <mark>XI</mark> RL	RF	50 Ω	AC	CORREC		SEI	NSE:INT SOU		ALIGN AUTO Type: RMS		M Apr 25, 2021	F	requency
PASS				PNO: V IFGain:	/ide ↔ Low	Trig: Fre #Atten: 3		#/119	Type. Kino	TYF			
10 dB/div Log	Ref 20.	00 d	Bm						Mkr1	793.230 -45.	75 MHz 40 dBm		Auto Tune
10.0 Trac	e 1 Pass												Center Freq 9.500000 MHz
-10.0												79	Start Freq 3.000000 MHz
-20.0												80	Stop Freq 6.000000 MHz
-40.0	111111 - ALBRICA	khinud.										<u>Auto</u>	CF Step 1.300000 MHz Man
-60.0		,	ut an	hepperter the state of the stat	tynn ed ad f a	with more sound by	harland had signal the way	Manual Manager	and the second second second	Mary Mary Construction of			Freq Offset 0 Hz
-70.0										and and and and and an			Scale Type
Center 79 #Res BW		Ηz			#VBW	30 kHz			Sweep	Span 1 88.53 ms (3.00 MHz 4001 pts)	Log	Lin
MSG									STAT	US			

Plot 7-285. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB)

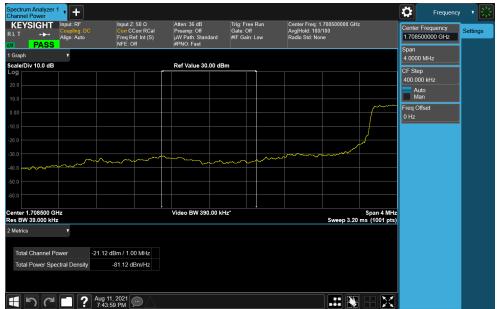
FCC ID: BCGA2568	Read to be part of @denset	PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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NR Band n66



Plot 7-286. Lower Band Edge Plot (NR Band n66 – 5.0MHz DFT-s-OFDM QPSK - Full RB)



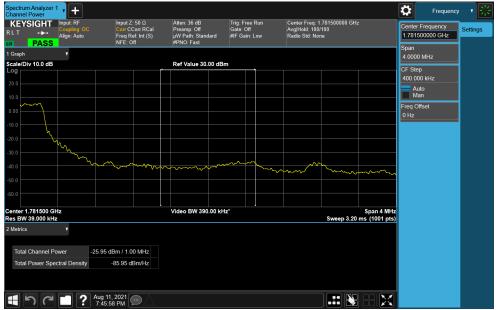
Plot 7-287. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz DFT-s-OFDM QPSK - Full RB)

FCC ID: BCGA2568		PART 27 MEASUREMENT REPORT	Approved by: Quality Manager
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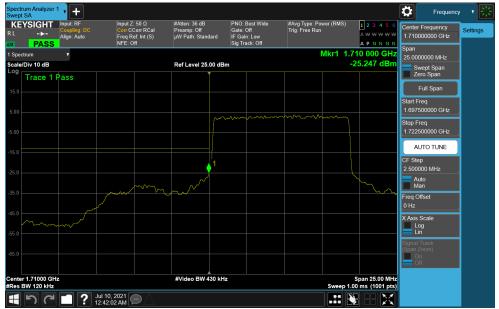
Plot 7-288. Upper Band Edge Plot (NR Band n66 – 5.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-289. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB)

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Plot 7-290. Lower Band Edge Plot (NR Band n66 – 10.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB)



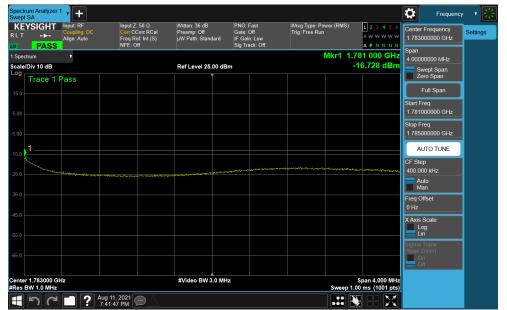
Plot 7-291. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

FCC ID: BCGA2568	PART 27 MEASUREMENT REPORT		Approved by: Quality Manager	
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Plot 7-292. Upper Band Edge Plot (NR Band n66 – 10.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-293. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-294. Lower Band Edge Plot (NR Band n66 – 15.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-295. Lower Extended Band Edge Plot (NR Band n66 – 15.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-296. Upper Band Edge Plot (NR Band n66 – 15.0MHz DFT-s-OFDM π/2 QPSK - Full RB)

EYSIGHT Input: RF T T Align: Auto PASS	Input Ζ: 50 Ω Corr CCorr RCal Freq Ref: Int (S) NFE: Off	#Atten: 36 dB Preamp: Off μW Path: Standard	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS) Trig: Free Run	1 2 3 4 5 6 A W W W W A P N N N N	Center Frequency 1.783000000 GHz Span	Settings
pectrum v ale/Div 10 dB		Ref Level 25.00 dE	m		781 000 GHz 20.219 dBm	4.00000000 MHz	
Trace 1 Pass		Í				Zero Span Full Span	
						Start Freq 1.781000000 GHz	
						Stop Freq 1.785000000 GHz	
0						AUTO TUNE CF Step	
0	and a state of the		and a second and a s			400.000 kHz Auto Man	
						Freq Offset 0 Hz	
0						X Axis Scale Log Lin	
						Signal Track (Span Zoom) On	
nter 1.783000 GHz		#Video BW 3.0 MH	z		Span 4.000 MHz 00 ms (1001 pts)	Off	

Plot 7-297. Upper Extended Band Edge Plot (NR Band n66 – 15.0MHz DFT-s-OFDM π/2 QPSK - Full RB)

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Plot 7-298. Lower Band Edge Plot (NR Band n66 – 20.0MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-299. Lower Extended Band Edge Plot (NR Band n66 – 20.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

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