

	ectrum Analyze									
LXI RL	RF	50 Ω DC	CORREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO e: RMS		MJun 10, 2022	Frequency
PASS	Ref 0.0	0 dBm	PNO: Fast IFGain:Low	Trig: Fre Atten: 10			Mkr	1 19.54		Auto Tune
10 dB/div Log Trac	e 1 Pass									Center Freq 15.00000000 GHz
-20.0										Start Freq 10.000000000 GHz
-40.0										Stop Freq 20.000000000 GHz
-60.0	~~~		**************************************						1	CF Step 1.00000000 GHz <u>Auto</u> Man
-80.0										Freq Offset 0 Hz
-90.0 Start 10.0								Stop 20	.000 GHZ	Scale Type
#Res BW	1.0 MHz		#VE	3W 3.0 MHz		S		'.33 ms (2	0001 pts)	
Mag							STATUS			

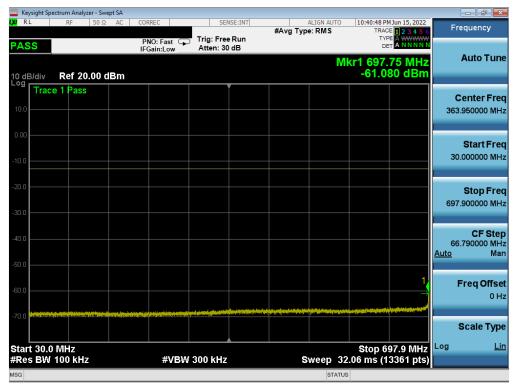
Plot 7-117. Conducted Spurious Plot (NR Band n66 - 20.0MHz - 1 RB - High Channel)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Daga 94 of 109	
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			V/3 0 1/5/2022	

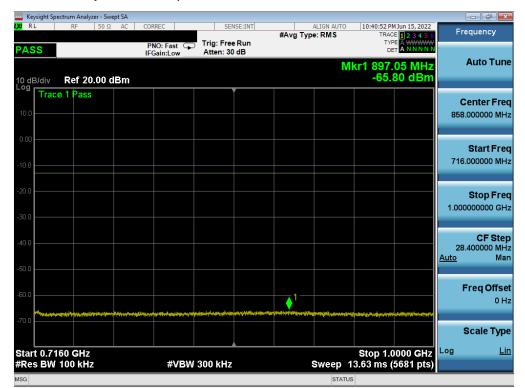
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LTE Band 12/17 – Sub ANT



Plot 7-118. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel - Sub ANT)



Plot 7-119. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel– Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager			
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Keysight Spectrum Analyzer - Swept SA					
LX RL RF 50Ω AC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	10:41:17 PM Jun 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		Trig: Free Run #Atten: 30 dB	0 ,1		
10 dB/div Ref 0.00 dBm			Μ	lkr1 1.408 0 GHz -45.728 dBm	Auto Tune
-10.0					Center Freq 5.50000000 GHz
-20.0					Start Freq 1.000000000 GHz
-40.0					Stop Freq 10.000000000 GHz
-60.0					CF Step 900.000000 MHz <u>Auto</u> Man
-80.0					Freq Offset 0 Hz
-90.0 Start 1.000 GHz				Stop 10.000 GHz	Scale Type
#Res BW 1.0 MHz	#VBW 3	.0 MHz	Sweep 1	5.60 ms (18001 pts)	
MSG			STAT	us	

Plot 7-120. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Low Channel – Sub ANT)

	ectrum Analy												
RL	RF	50 Ω	AC	CORREC		S	ENSE:INT	#A T	ALIGN AUTO		M Jun 15, 2022	Fr	equency
ASS				PNO: IFGain	Fast ⊂ ⊾ow	Trig: Fro Atten: 3		#Avg Ty	pe: RIVIS	TYP	CE 1 2 3 4 5 6 CE A WWWWW A NNNNN		
dB/div	Ref 20).00 d	Bm						М		55 MHz 41 dBm		Auto Tur
Trac	e 1 Pass						Ĭ					c	Center Fre
0.0												364	.000000 MI
.00													Start Fr
0.0												30	.000000 M
0.0													Stop Fr
0.0												698	.000000 N
0.0													CF St
												66 <u>Auto</u>	.800000 N N
3.0													Erog Off
0.0											1		F req Off s 0
0.0 *****													Scale Ty
										0 4		Log	Scale Ty
tart 30.0 Res BW	100 kH	7			#VRM	/ 300 kH:	7		Sweep 32	Stop 6 2.06 ms (1	30.0 101112	209	

Plot 7-121. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel - Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
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			\/3.0.1/5/2022



	ectrum Analyzer - Sv									
L <mark>XI</mark> RL	RF 50 S	2 AC	CORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		4 Jun 15, 2022	Frequency
PASS			PNO: Fast G	Trig: Free Atten: 30				TYF DE		
10 dB/div Log	Ref 20.00	dBm					Μ	kr1 716. -65.2	20 MHz 80 dBm	Auto Tur
10.0 Trace	e 1 Pass									Center Fre 858.000000 MH
-10.0										Start Fre 716.000000 MF
-20.0										Stop Fre 1.000000000 GF
-40.0										CF Ste 28.400000 MH <u>Auto</u> Ma
-60.0 - 1	attartalan di san di san di dana di dana di san	1017-51 ⁰⁴ /270-151-54-54-	itaira.q <mark>0</mark> 4a.jumuinstrijayjayira		and the second	her her star star star star star	graficansectory	alasaring withing any any	tipegeri despendigidet (d	Freq Offs ୦
-70.0										Scale Typ
Start 0.71 #Res BW			#VBV	/ 300 kHz			Sweep 1	Stop 1.0 3.63 ms (1000 GHz 5681 pts)	Log <u>L</u>
MSG							STATU	S		

Plot 7-122. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel – Sub ANT)



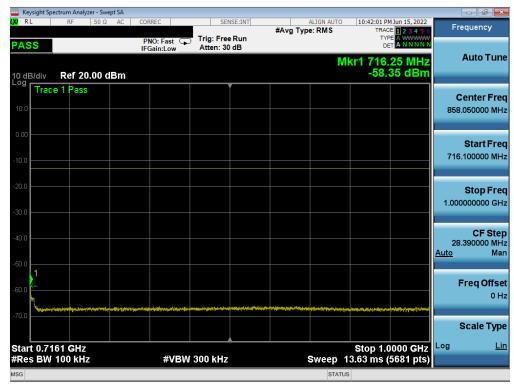
Plot 7-123. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - Mid Channel – Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 87 of 198		
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www.www.com analyzer - Swept SA						
LXI RL RF 50Ω AC	CORREC	SENSE:INT	ALI #Avg Type:		:56 PM Jun 15, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		Trig: Free Run Atten: 30 dB			TYPE A WWWWW DET A NNNNN	
10 dB/div Ref 20.00 dBm				Mkr1 6 -6	97.50 MHz 5.695 dBm	Auto Tune
10.0						Center Freq 364.000000 MHz
-10.0						Start Freq 30.000000 MHz
-20.0						Stop Freq 698.000000 MHz
-40.0						CF Step 66.800000 MHz <u>Auto</u> Man
-60.0			n fa falla ar bata an da affilia an	Terlehanden zum Deutschanden in den Anst		Freq Offset 0 Hz
-70.0	an dan serien Tanatur andar da tanàn di Badi and Ang					Scale Type
Start 30.0 MHz #Res BW 100 kHz	#VBW 3	00 kHz	Sw	Sto eep 32.06 m	p 698.0 MHz s (13361 pts)	Log <u>Lin</u>
MSG				STATUS		

Plot 7-124. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel – Sub ANT)



Plot 7-125. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel – Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT				
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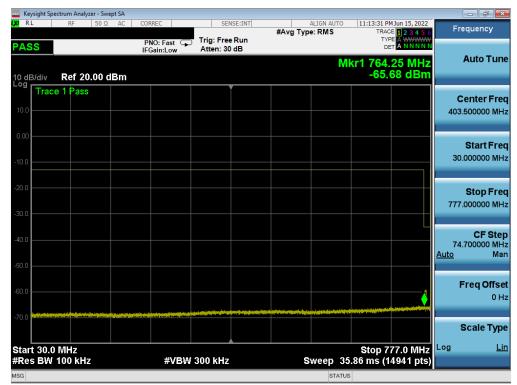
Plot 7-126. Conducted Spurious Plot (LTE Band 12/17 - 10MHz QPSK - 1 RB - High Channel – Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 89 of 198	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Faye 09 01 190	
	-	·	V3.0 1/5/2022	

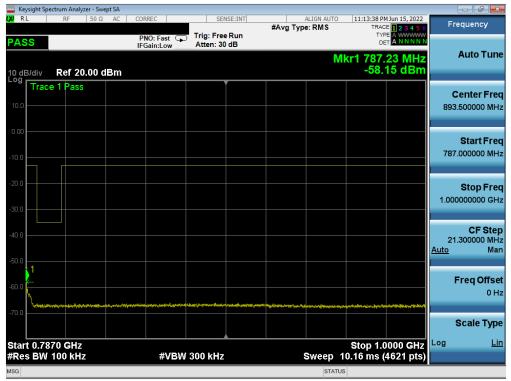
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LTE Band 13 – Sub ANT







Plot 7-128. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB - Sub ANT)

FCC ID: PY7-76056F		Approved by: Technical Manager	
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🔤 Keysight Spectrum A	nalyzer - Swej	pt SA									
X/RL RF	50 Ω	AC	CORREC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO	11:13:55 PM	Jun 15, 2022	Fn	equency
PASS			PNO: Fast IFGain:Low	Trig: Free #Atten: 3		#rrig iyp		TYPE	A WWWWW A NNNNN		
10 dB/div Ref	0.00 dB	m					M	(r1 1.564 -46.3	0 GHz 4 dBm		Auto Tune
-10.0	ass										Center Freq 0000000 GHz
-20.0										1.000	Start Freq
-40.0										10.000	Stop Freq
-60.0										900 <u>Auto</u>	CF Step .000000 MHz Man
-80.0										ľ	Freq Offset 0 Hz
-90.0											Scale Type
Start 1.000 GH #Res BW 1.0 N			#VBW	/ 3.0 MHz		s	weep 15	Stop 10. 6.60 ms (18	000 0112	Log	Lin
MSG							STATU	_			

Plot 7-129. Conducted Spurious Plot (LTE Band 13 - 10MHz QPSK - 1 RB - Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
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7.5 Band Edge Emissions at Antenna Terminal

Test Overview

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

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

Test Procedure Used

ANSI C63.26-2015 - Section 5.7.3

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW \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 7-4. Test Instrument & Measurement Setup

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			V/3 0 1/5/2022



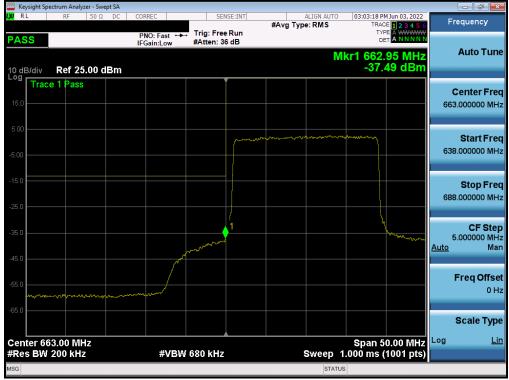
Test Notes

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

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LTE Band 71



Plot 7-130. Lower Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB Configuration)



Plot 7-131. Upper Band Edge Plot (LTE Band 71 - 20MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	F PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
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Plot 7-132. Lower Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB Configuration)



Plot 7-133. Upper Band Edge Plot (LTE Band 71 - 15MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT			
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Plot 7-134. Lower Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB Configuration)



Plot 7-135. Upper Band Edge Plot (LTE Band 71 - 10MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
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Plot 7-136. Lower Band Edge Plot (LTE Band 71 - 5MHz QPSK - Full RB Configuration)



Plot 7-137. Upper Band Edge Plot (LTE Band 71 - 5MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager			
Test Report S/N:	Test Dates:	EUT Type:	Dage 07 of 109			
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LTE Band 12/17 – Main ANT



Plot 7-138. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB Configuration – Main ANT)



Plot 7-139. Lower Band Edge Plot (LTE Band 17 - 10MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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RF 50 Ω DC CORREC SENSE:INT ALIGN AUTO 06:08:11 PM Jun 06, 2022 #Avg Type: RMS TRACE 12:3:4:5:6 Trig: Free Run Trig: Free Run Trig: Free Run S LEGain Juny #Atten: 36 dB DET APTININ N
PNO: Wide +++ Trig: Free Run TYPE
IFGall.LOW #/ ttell. 00 dB
Mkr1 716.025 MHz Auto Tur /div Ref 25.00 dBm -29.74 dBm
Trace 1 Pass Center Fre
Start Fre 703.500000 MH
1
CF Ste 2.500000 MH Auto
Freq Offs
Scale Typ
er 716.00 MHz Span 25.00 MHz Log BW 100 kHz #VBW 300 kHz Sweep 1.200 ms (1001 pts)
STATUS

Plot 7-140. Upper Band Edge Plot (LTE Band 12/17 - 10MHz QPSK – Full RB Configuration – Main ANT)



Plot 7-141. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB Configuration – Main ANT)

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🔤 Keysight Spectrum Analyzer - Swept SA									
LX/ R L RF 50 Ω AC	CORREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO e: RMS		HAug 10, 2022	Free	quency
PASS	PNO: Wide ↔ IFGain:Low	Trig: Free #Atten: 36				TYI Di			uto Tune
10 dB/div Ref 25.00 dBm					Mkr	704.00 -23.	0 0 MHz 75 dBm		
Trace 1 Pass									enter Freq
15.0								704.0	00000 MHz
5.00									Start Freq
-5.00									50000 MHz
-15.0			}						
			1				1		Stop Freq 50000 MHz
-25.0	D (10	~~~~					and and a second		CF Step
-35.0								1.2 <u>Auto</u>	50000 MHz Man
-45.0									
-55.0								Fi	eq Offset 0 Hz
-65.0									UHZ
-03.0								S	cale Type
Center 704.000 MHz #Res BW 100 kHz	#VBM	300 kHz			Sween		2.50 MHz	Log	<u>Lin</u>
MSG	<i></i>	000 1112			STATU	_	roor pts)		

Plot 7-142. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK – Full RB Configuration – Main ANT)



Plot 7-143. Upper Band Edge Plot (LTE Band 12/17 - 5MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
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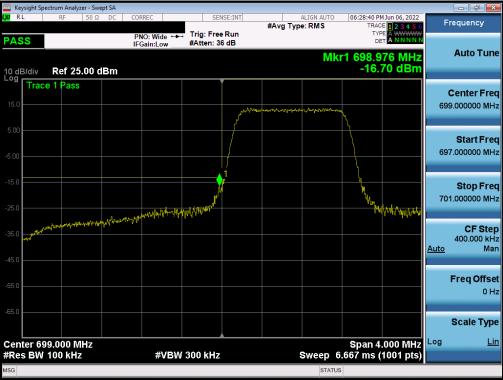
Plot 7-144. Lower Band Edge Plot (LTE Band 12/17 - 3MHz QPSK – Full RB Configuration – Main ANT)



Plot 7-145. Upper Band Edge Plot (LTE Band 12/17 - 3MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-146. Lower Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB Configuration – Main ANT)



Plot 7-147. Upper Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB Configuration – Main ANT)

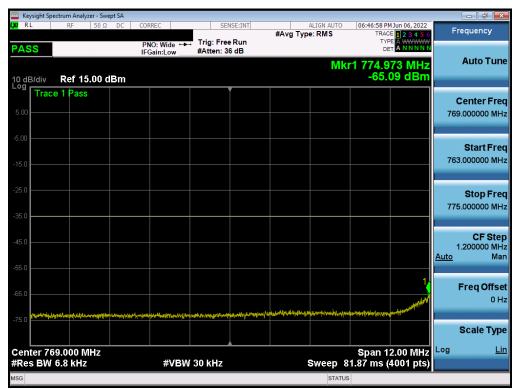
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 102 of 109
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LTE Band 13 – Main ANT



Plot 7-148. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Main ANT)



Plot 7-149. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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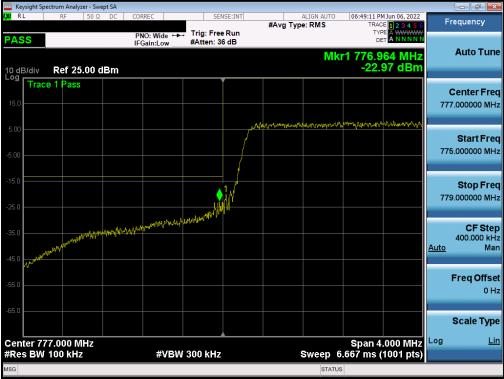
Plot 7-150. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Main ANT)



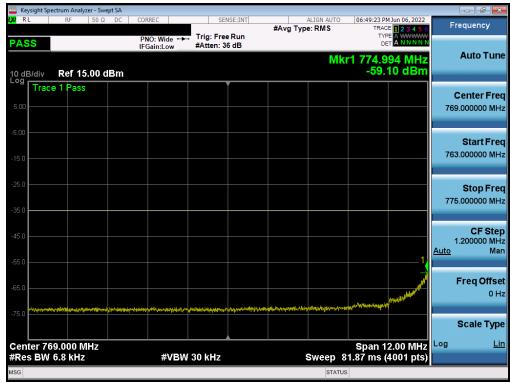
Plot 7-151. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
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Plot 7-152. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Main ANT)



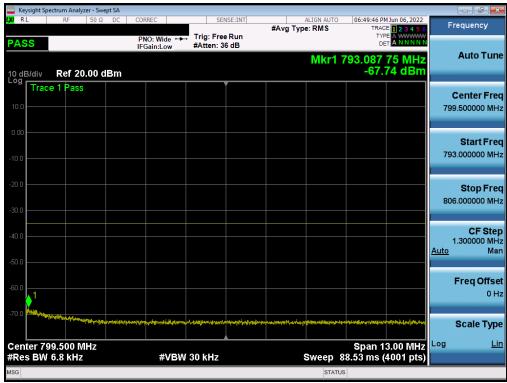
Plot 7-153. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Main ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-154. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Main ANT)

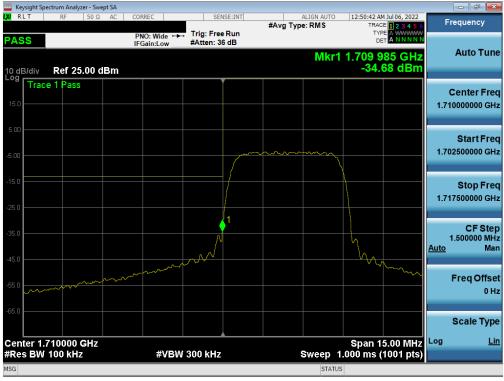


Plot 7-155. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Main ANT)

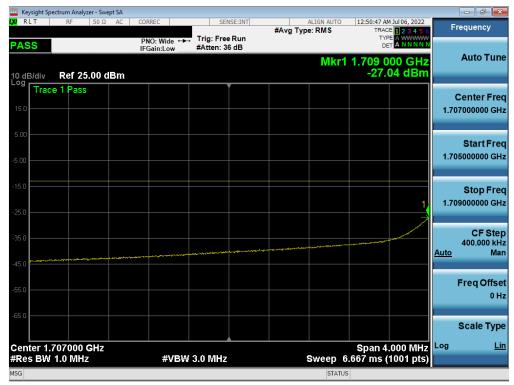
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS



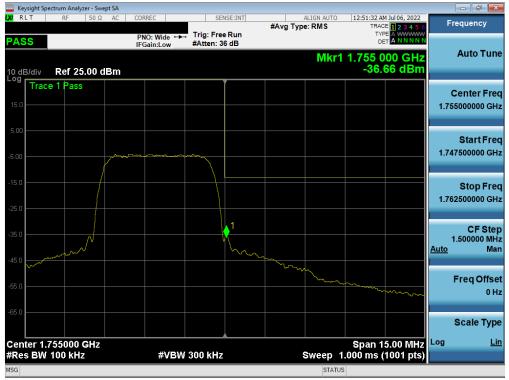




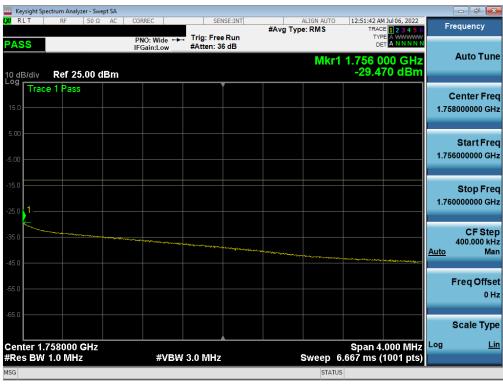
Plot 7-157. Lower Extended Band Edge Plot (WCDMA AWS - Ch. 1312)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-158. Upper Band Edge Plot (WCDMA AWS - Ch. 1513)



Plot 7-159. Upper Extended Band Edge Plot (WCDMA AWS – Ch. 1513)

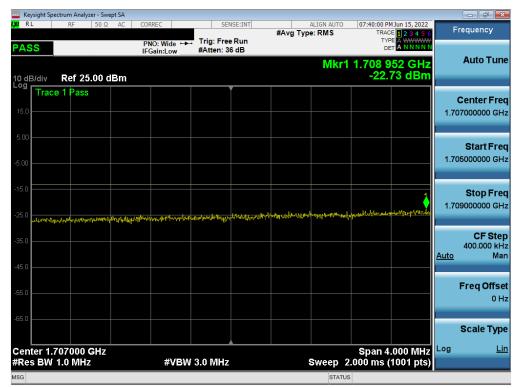
FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 100 of 100
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 108 of 198
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LTE Band 66/4



Plot 7-160. Lower Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)



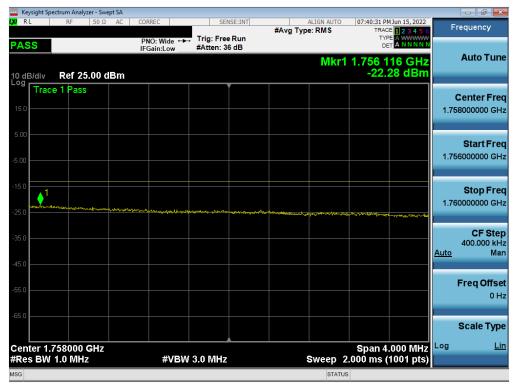
Plot 7-161. Lower Extended Band Edge Plot (LTE Band 66/4 - 20MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 109 of 198
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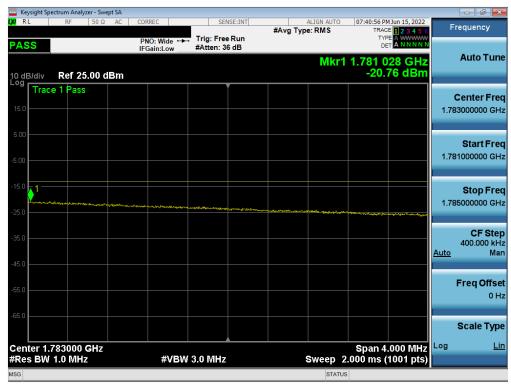
Plot 7-163. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 110 of 109
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 110 of 198
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Plot 7-164. Upper Band Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)



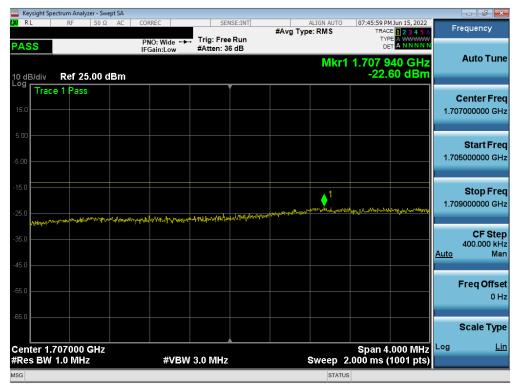
Plot 7-165. Channel Edge Plot (LTE Band 66 - 20MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 111 of 198
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			V3.0 1/5/2022





Plot 7-166. Lower Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)



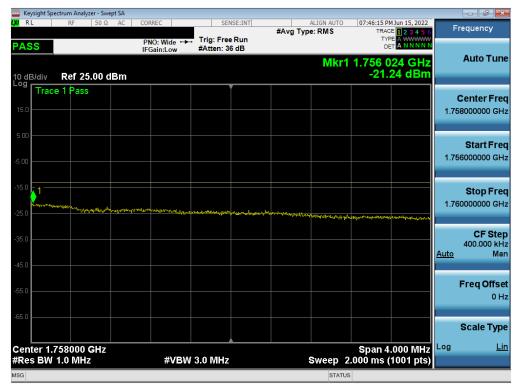
Plot 7-167. Lower Extended Band Edge Plot (LTE Band 66/4 - 15MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 112 of 109
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 112 of 198
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Plot 7-168. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB Configuration)



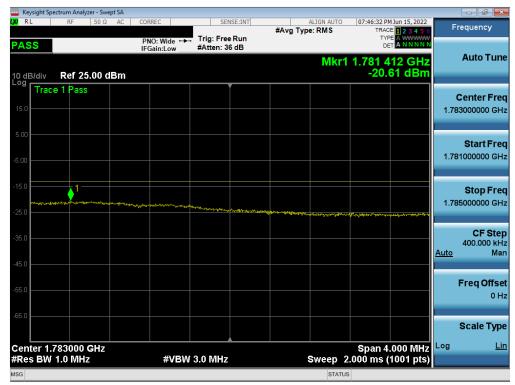
Plot 7-169. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Degs 112 of 109
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Plot 7-170. Upper Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)



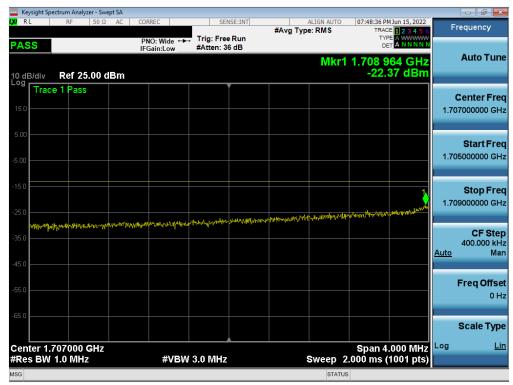
Plot 7-171. Upper Extended Band Edge Plot (LTE Band 66 - 15MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 114 of 109
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Plot 7-172. Lower Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB Configuration)



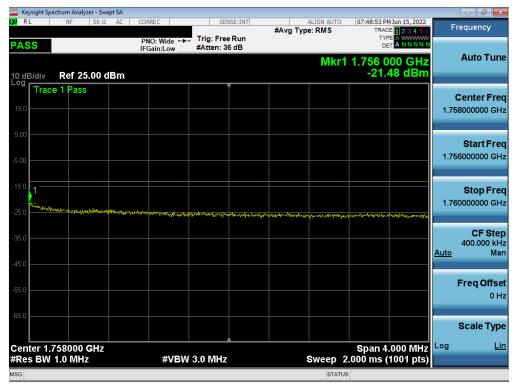
Plot 7-173. Lower Extended Band Edge Plot (LTE Band 66/4 - 10MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 115 of 109
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 115 of 198
<u> </u>		-	V3.0 1/5/2022









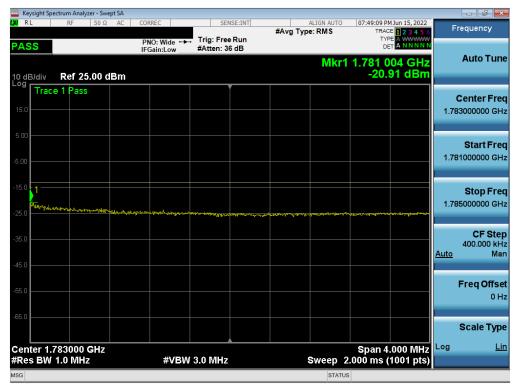
Plot 7-175. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 116 of 109
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 116 of 198
<u>-</u>			V3.0 1/5/2022





Plot 7-176. Upper Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB Configuration)



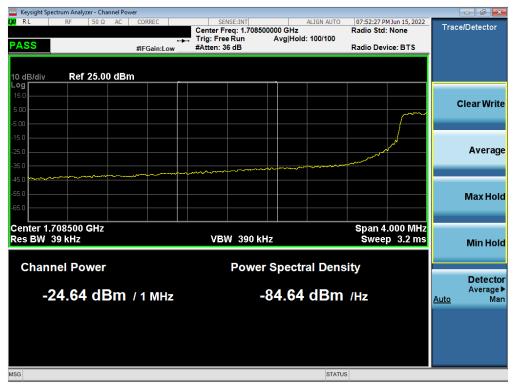
Plot 7-177. Upper Extended Band Edge Plot (LTE Band 66 - 10MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 117 of 109
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Plot 7-178. Lower Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB Configuration)



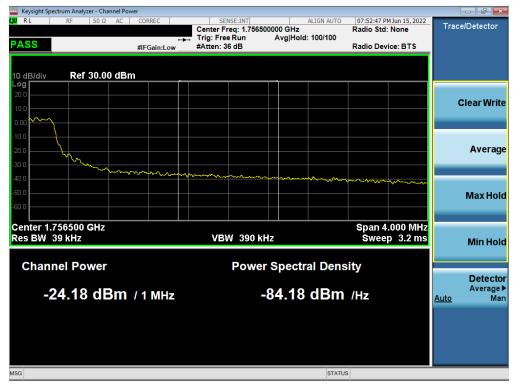
Plot 7-179. Lower Extended Band Edge Plot (LTE Band 66/4 - 5MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dama 440 af 400
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 118 of 198
	•	•	V3.0 1/5/2022





Plot 7-180. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB Configuration)



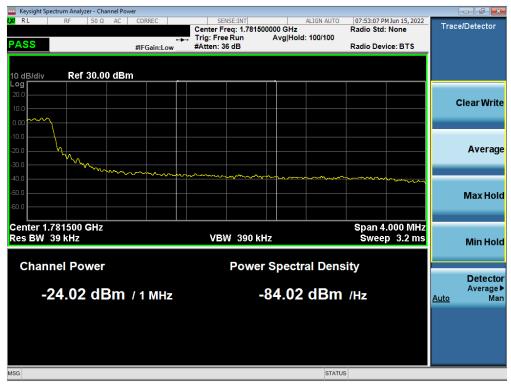
Plot 7-181. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dega 110 of 100
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 119 of 198
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Plot 7-182. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK - Full RB Configuration)



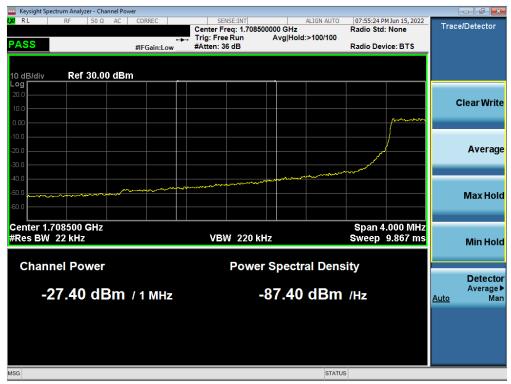
Plot 7-183. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 120 of 198
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	-	•	V3.0 1/5/2022





Plot 7-184. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB Configuration)



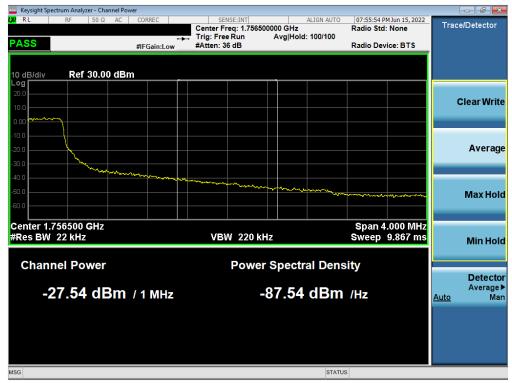
Plot 7-185. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Daga 121 of 109	
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Plot 7-186. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB Configuration)



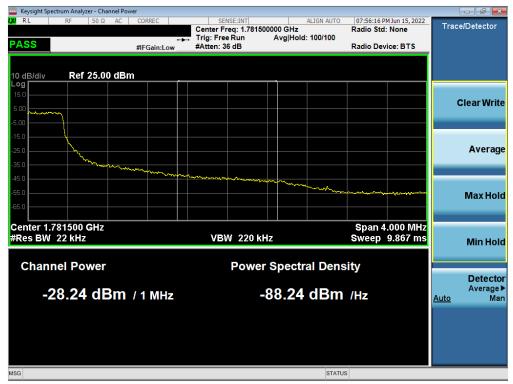
Plot 7-187. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dega 122 of 109	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 122 of 198	
			V3.0.1/5/2022	





Plot 7-188. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB Configuration)



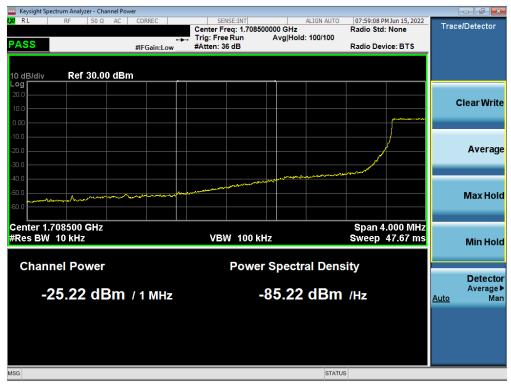
Plot 7-189. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 122 of 109	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 123 of 198	
	·	÷	V3.0.1/5/2022	





Plot 7-190. Lower Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB Configuration)



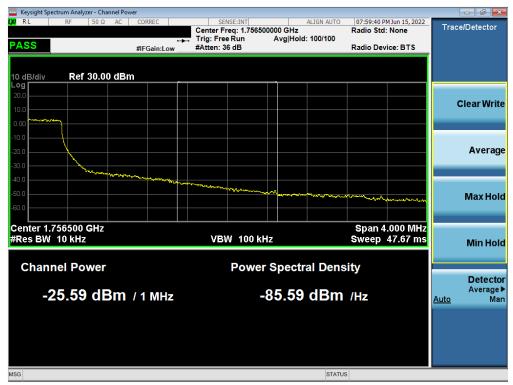
Plot 7-191. Lower Extended Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 104 of 100	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 124 of 198	
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Plot 7-192. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB Configuration)



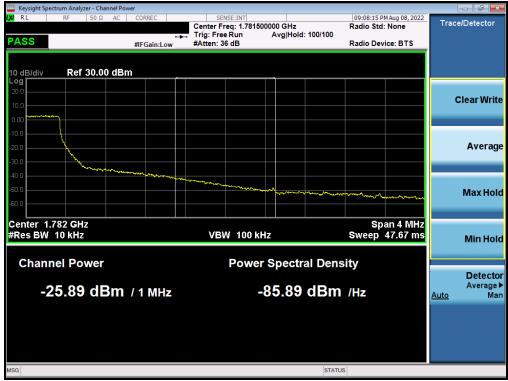
Plot 7-193. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 125 of 100	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 125 of 198	
	•	·	V3 0 1/5/2022	





Plot 7-194. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB Configuration)



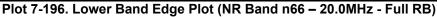
Plot 7-195. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB Configuration)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Dage 126 of 109	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 126 of 198	
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NR Band n66

	Spectrum Analy:											
L <mark>XI</mark> RL	RF	50 Ω	DC	CORREC	SE	NSE:INT	#Avg Typ	ALIGN AUTO		MJun 10, 2022	Fr	equency
PASS	,			PNO: Fast ↔ IFGain:Low	Trig: Free #Atten: 3				TYF DE			Auto Tune
10 dB/div	Ref 25	i.00 dE	Зm					Mkı	1 1.709- -33.	95 GHz 79 dBm		Auto Tune
Log	ice 1 Pass					Ĭ					C	enter Freq
15.0											1.71	000000 GH:
5.00						m	and the second		my			Start Free
-5.00											1.68	5000000 GH
-15.0											1 73	Stop Free
-25.0						1						
-35.0											5	CF Step
-45.0			M		mon					wow	<u>Auto</u>	Mai
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	un mangalan	hum	<u>᠕</u> ᡣᠬᢇᡗ	A-na								Freq Offse
-55.0												0 H
-65.0												Scale Type
Center	1.71000 G	H7							Snap 5	0.00 MHz		Lir
	N 240 kHz			#VBV	V 820 kHz			Sweep 1	.000 ms (	1001 pts)		
MSG								STATU	5			





Plot 7-197. Lower Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

FCC ID: PY7-76056F		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 127 of 109
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🔤 Keysight Spectrum Analyzer - Swept SA 👘					
X RL RF 50Ω DC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	07:14:33 PM Jun 10, 2022 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
PASS 10 dB/div Ref 25.00 dBm	PNO: Fast ↔ IFGain:Low	#Atten: 36 dB	Mkı	1 1.780 05 GHz -37.59 dBm	Auto Tune
^{og} Trace 1 Pass					Center Fre 1.780000000 GH
5.00	- Andrew - A Andrew - Andrew -				Start Fre 1.755000000 G⊦
-15.0					<b>Stop Fre</b> 1.805000000 GF
35.0		1	m		CF Ste 5.00000 MH <u>Auto</u> Ma
55.0				Mar and a start	Freq Offso 0 ⊦
65.0 Center 1.78000 GHz				Span 50.00 MHz	Scale Typ
Res BW 240 kHz	#VBW	820 kHz	Sweep 1	.000 ms (1001 pts)	
ISG			STATU	5	



Plot 7-199. Upper Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 128 of 198
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Plot 7-200. Lower Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)



Plot 7-201. Lower Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 af 400	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 129 of 198	
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Plot 7-202. Upper Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)



Plot 7-203. Upper Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 af 400	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	Portable Handset	Page 130 of 198	
L	•		V3.0 1/5/2022	



🌉 Keysight Spectrum Analyzer - Swept SA				
LX/RL RF 50Ω DC	CORREC SENSE:INT	ALIGN AUTO 0 #Avg Type: RMS	7:57:08 PM Jun 10, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Wide ↔ Trig: Free Run IFGain:Low #Atten: 36 dB		709 975 GHz	Auto Tune
10 dB/div Ref 25.00 dBm	<u> </u>		-27.86 dBm	
15.0 Trace 1 Pass				Center Freq 1.710000000 GHz
-5.00				<b>Start Freq</b> 1.697500000 GHz
-15.0				<b>Stop Freq</b> 1.722500000 GHz
-35.0			hand	<b>CF Step</b> 2.500000 MHz <u>Auto</u> Man
-55.0				<b>Freq Offset</b> 0 Hz
-65.0				Scale Type
Center 1.71000 GHz #Res BW 120 kHz	#VBW 430 kHz	Sweep 1.00	Span 25.00 MHz 0 ms (1001 pts)	Log <u>Lin</u>
MSG		STATUS		

Plot 7-204. Lower Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)



Plot 7-205. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 131 of 198	
1M2205240063-06.PY7	6/2/2022 - 8/10/2022	2/2022 - 8/10/2022 Portable Handset		
	-	•	V3.0 1/5/2022	





Plot 7-206. Upper Band Edge Plot (NR Band n66 - 10.0MHz - Full RB)



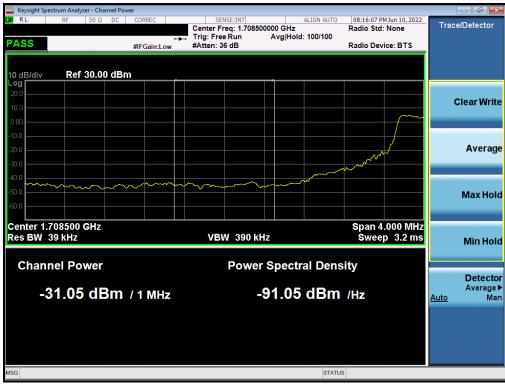
Plot 7-207. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 af 400	
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		•	V3.0 1/5/2022	





Plot 7-208. Lower Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)



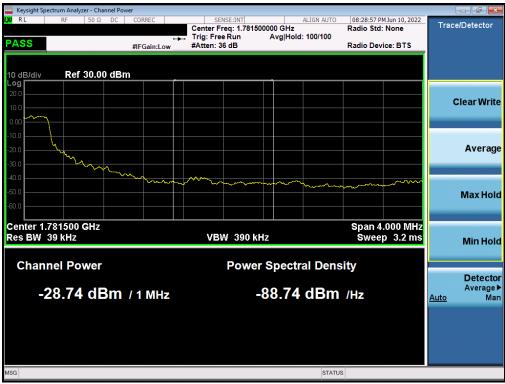
Plot 7-209. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 122 of 100
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Plot 7-210. Upper Band Edge Plot (NR Band n66 - 5.0MHz - Full RB)



Plot 7-211. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 124 of 109
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		-	\/3.0.1/5/2022



# LTE Band 12 – Sub ANT



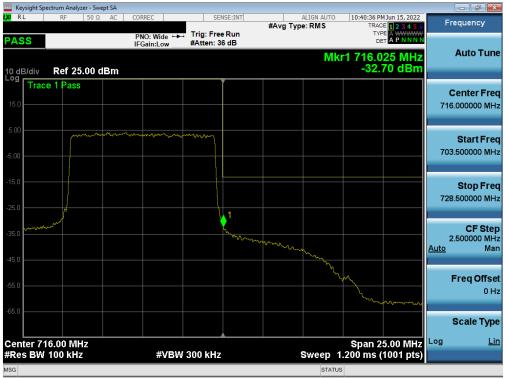
Plot 7-212. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK – Full RB Configuration – Sub ANT)



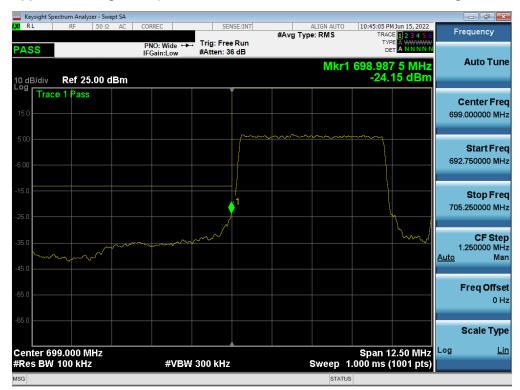
#### Plot 7-213. Lower Band Edge Plot (LTE Band 17 - 10MHz QPSK - Full RB Configuration - Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 125 of 109
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Plot 7-214. Upper Band Edge Plot (LTE Band 12/17 - 10MHz QPSK – Full RB Configuration – Sub ANT)



Plot 7-215. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dama 400 af 400	
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🔤 Keysight Spectrum Analyzer - Swept SA							
LXI RL RF 50Ω AC	CORREC	SENSE:INT	#Avg Type	BMS		Aug 10, 2022	Frequency
PASS		ig: Free Run tten: 36 dB	#/18 I JPC		TYPE DET	A WWWWW A N N N N N	Auto Tune
10 dB/div Ref 25.00 dBm				MKF1	704.000 -24.6	0 MHZ 3 dBm	
Trace 1 Pass							Center Freq
15.0							704.000000 MHz
5.00					my		
							Start Freq 697.750000 MHz
-5.00							697.750000 MHZ
-15.0							Stop Freq
		<b>1</b>			Į		710.250000 MHz
-25.0		Å					
-35.0		~~~				~~~~	CF Step 1.250000 MHz
							Auto Man
-45.0							
-55.0							Freq Offset 0 Hz
							0 H2
-65.0							Scale Type
Contex 704 000 MU					Om on Af		
Center 704.000 MHz #Res BW 100 kHz	#VBW 300	) kHz	s	Sweep 1.	- <del>Sp</del> an 1∡ 000 ms (1	2.50 MHz 1001 pts)	
MSG				STATUS			

Plot 7-216. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK - Full RB Configuration - Sub ANT)



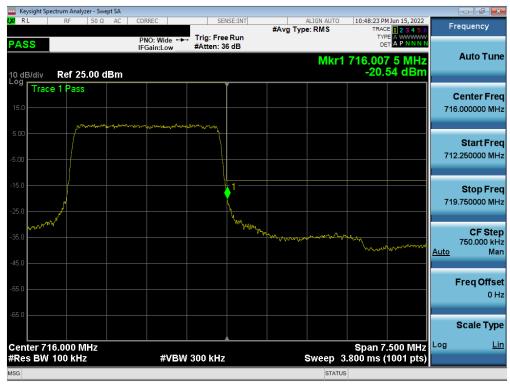
Plot 7-217. Upper Band Edge Plot (LTE Band 12/17 - 5MHz QPSK – Full RB Configuration – Sub ANT)

FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
Test Report S/N:	Test Dates:	EUT Type:	Dage 127 of 109
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	<u>.</u>		V3.0 1/5/2022





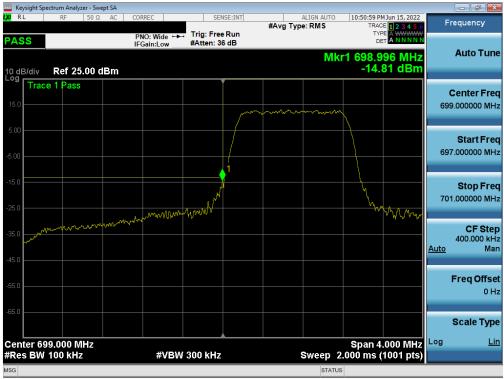
Plot 7-218. Lower Band Edge Plot (LTE Band 12/17 - 3MHz QPSK – Full RB Configuration – Sub ANT)



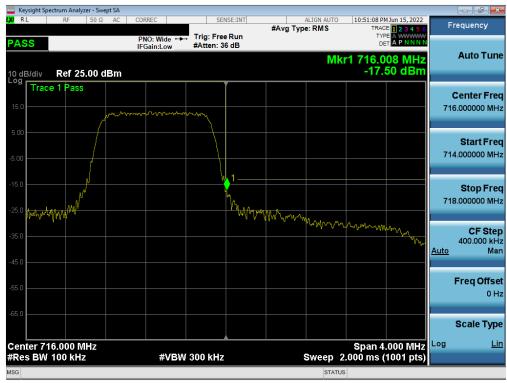
Plot 7-219. Upper Band Edge Plot (LTE Band 12/17 - 3MHz QPSK – Full RB Configuration – Sub ANT)

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Plot 7-220. Lower Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB Configuration – Sub ANT)



Plot 7-221. Upper Band Edge Plot (LTE Band 12/17 – 1.4MHz QPSK – Full RB Configuration – Sub ANT)

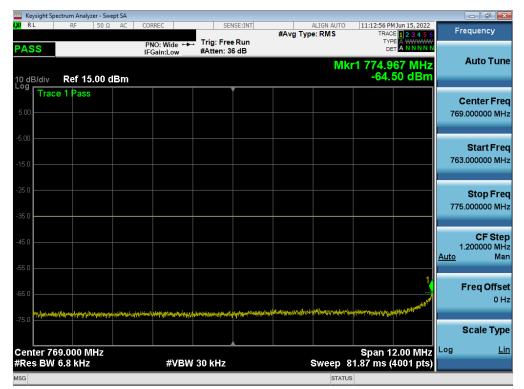
FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# LTE Band 13 – Sub ANT



Plot 7-222. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Sub ANT)



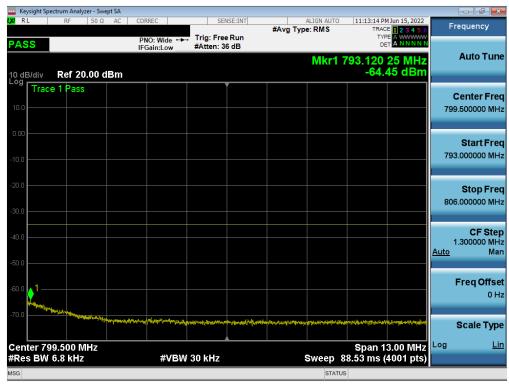
Plot 7-223. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Sub ANT)

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Plot 7-224. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Sub ANT)



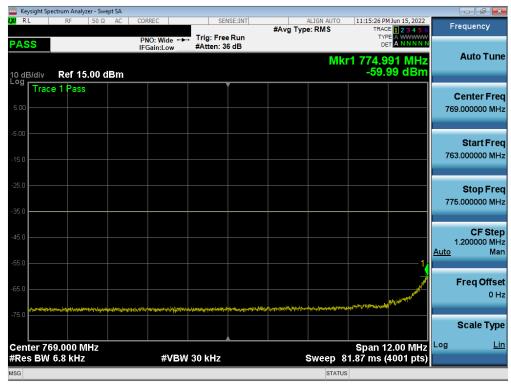
Plot 7-225. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB Configuration – Sub ANT)

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Plot 7-226. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB Configuration - Sub ANT)



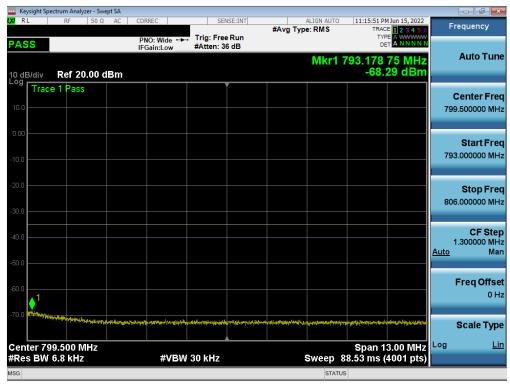
Plot 7-227. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Sub ANT)

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Plot 7-228. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Sub ANT)



Plot 7-229. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB Configuration – Sub ANT)

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# 7.6 Peak-Average Ratio

### **Test Overview**

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

### Test Procedure Used

ANSI C63.26-2015 - Section 5.2.3.4

### **Test Settings**

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

#### Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

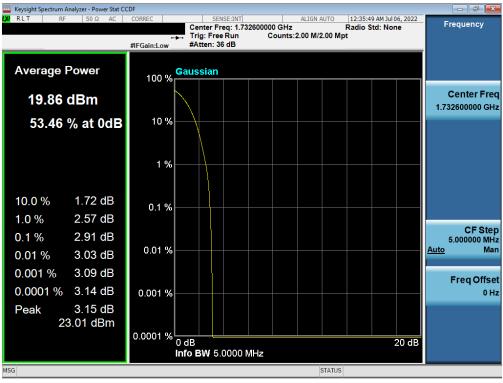
#### Test Notes

None.

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# WCDMA AWS

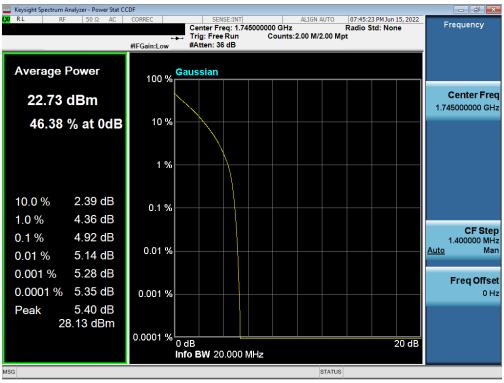


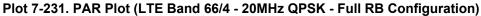
Plot 7-230. PAR Plot (WCDMA, Ch. 1413)

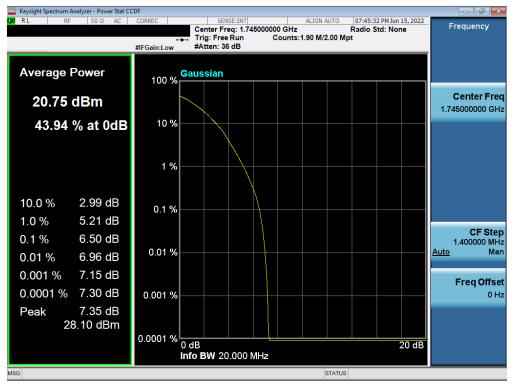
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# LTE Band 66/4

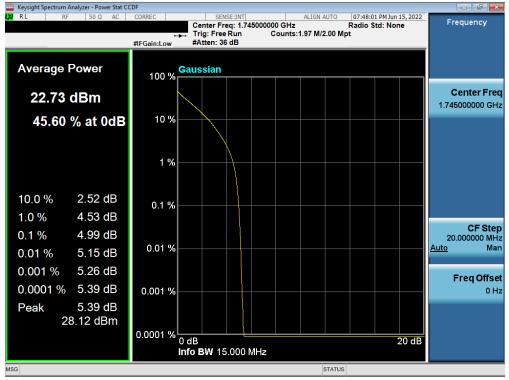


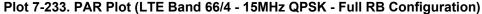


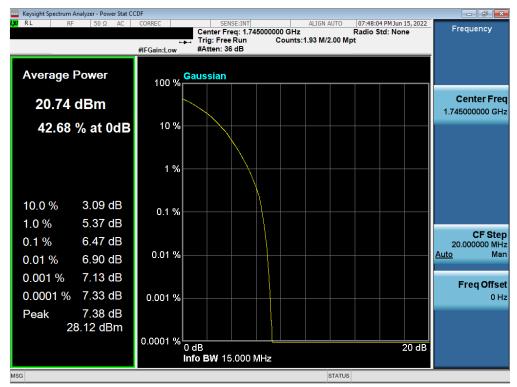


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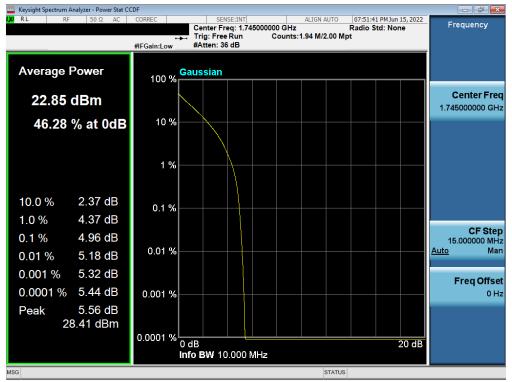


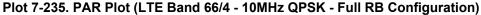


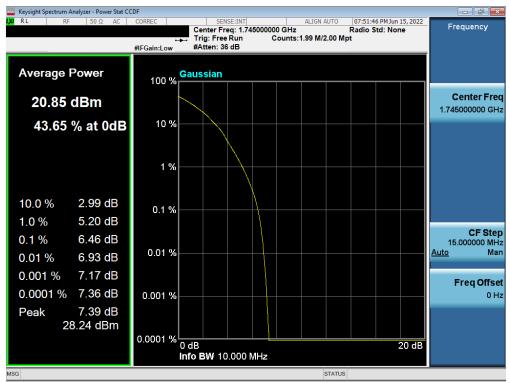
Plot 7-234. PAR Plot (LTE Band 66/4 - 15MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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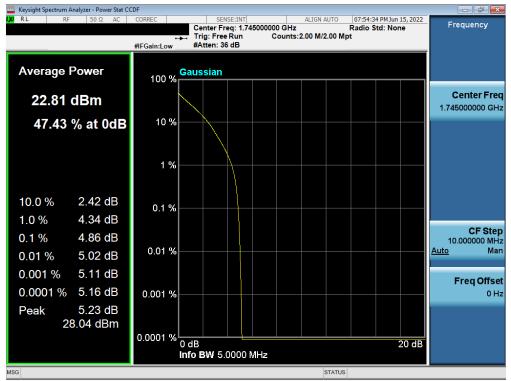


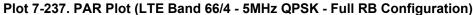


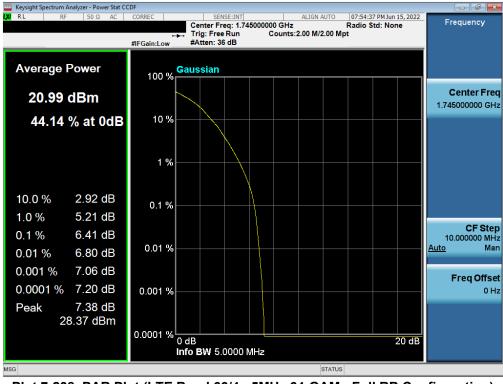
Plot 7-236. PAR Plot (LTE Band 66/4 - 10MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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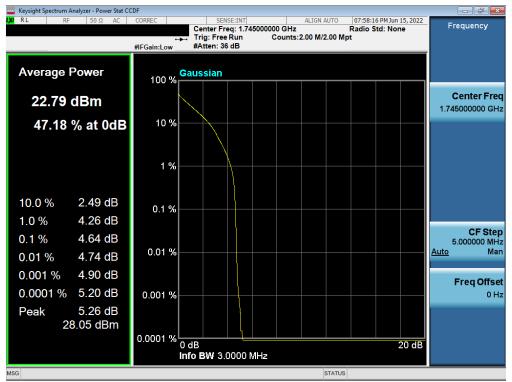


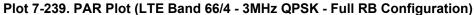


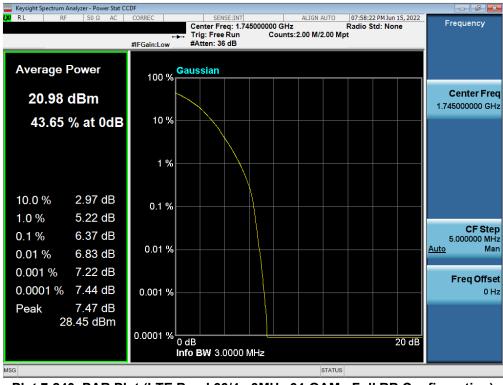
Plot 7-238. PAR Plot (LTE Band 66/4 - 5MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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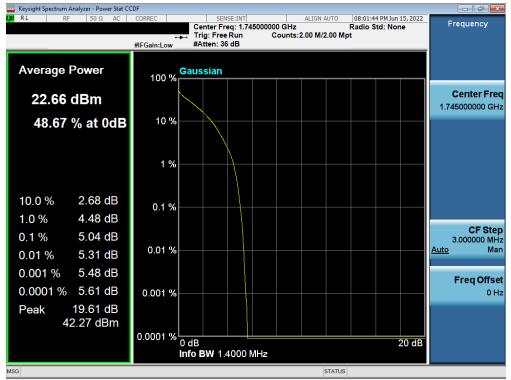


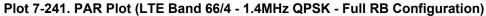


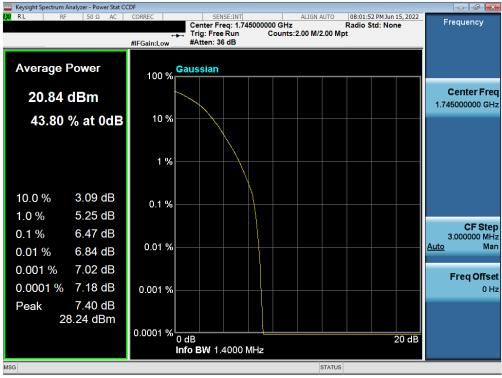
Plot 7-240. PAR Plot (LTE Band 66/4 - 3MHz 64-QAM - Full RB Configuration)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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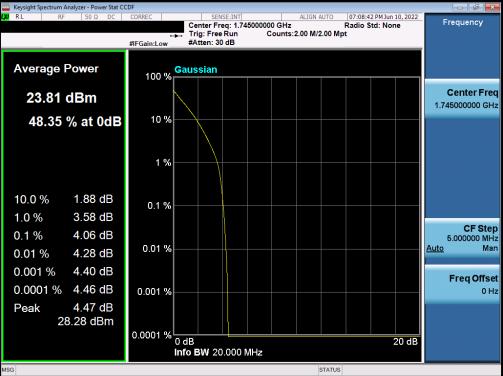


Plot 7-242. PAR Plot (LTE Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)

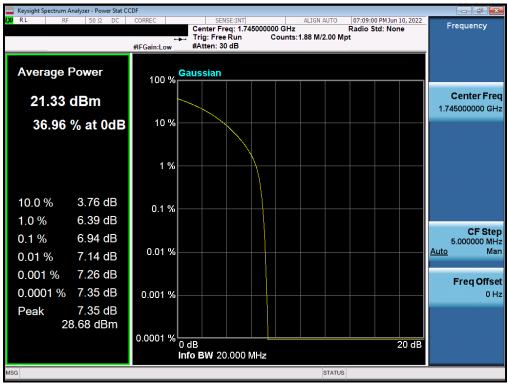
FCC ID: PY7-76056F		PART 27 MEASUREMENT REPORT	
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### NR Band n66



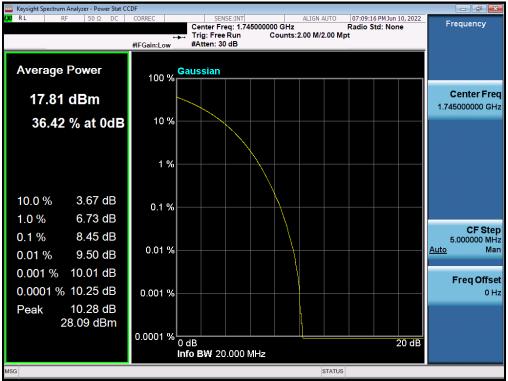




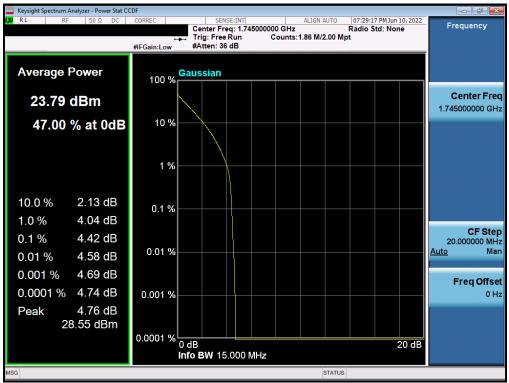
Plot 7-244. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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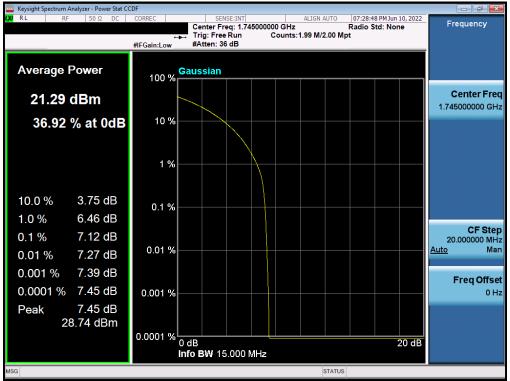


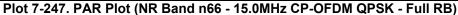


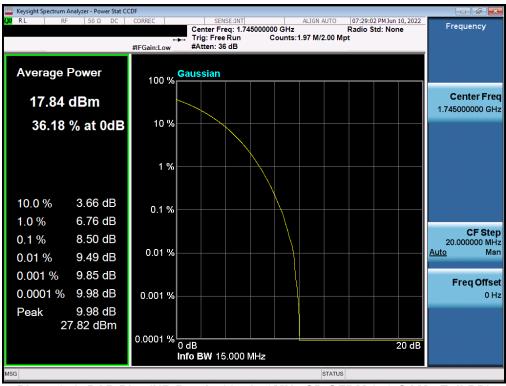
Plot 7-246. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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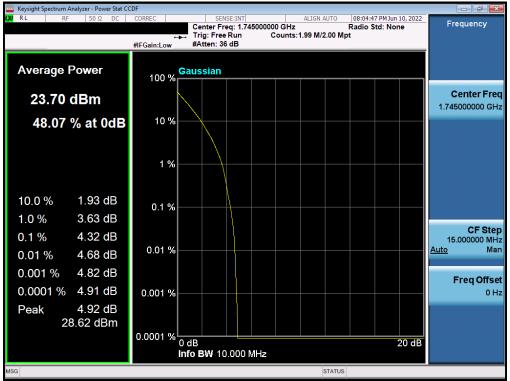




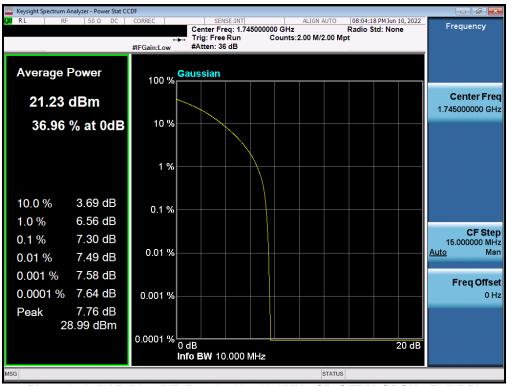
Plot 7-248. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: PY7-76056F	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-250. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB)

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