

	ight Spectrun	n Analyzer - S	wept SA									
L <mark>XI</mark> RL	F	RF 50	Ω ΑC (	ORREC	SEI	NSE:INT	#Avg Typ			MAug 09, 2019 CE 1 2 3 4 5 6	F	requency
			NFE	PNO: Fast G	Trig: Free #Atten: 3				T			
10 dB/ Log 🗖	div Re	ef 10.00	dBm						Mkr1 6.95 -46	5 5 GHz .82 dBm		Auto Tune
											(	Center Freq
0.00											5.50	0000000 GHz
-10.0										DL1 -13.00 dBm		
-20.0											1.00	Start Freq 0000000 GHz
-20.0												
-30.0												Stop Freq
-40.0							1-				10.00	0000000 GHz
-50.0						اللار بين العام	↓ ••••••••••••••••••••••••••••••••••••	h a tao ka de	alilian ac	tat alah watada		CF Step
-50.0	ամինենտ	որգերորությ	al the party of the party of the		ndel en se si	an dia mandra da		a de la companya de La companya de la com	alanah ar <b>hara</b> k	n line en e	900 <u>Auto</u>	0.000000 MHz Man
-60.0	armenpaparangen Ali olio ar Lu	A DECEMBER OF STREET	and a static line of the line	<u>. طالف ميرة أألفه</u>	Later and the states				1			
-70.0												Freq Offset 0 Hz
												0 Hz
-80.0												Scale Type
Start	1.000 G	Hz							Stop 1	0.000 GHz	Log	Lin
	BW 1.0			#VB\	V 3.0 MHz		s	weep	15.60 ms (			
MSG								ST	ATUS			

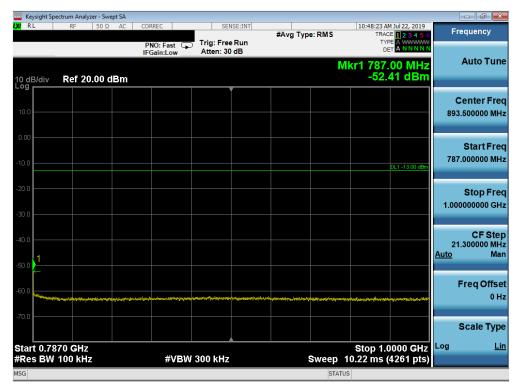
Plot 7-132. Conducted Spurious Plot (Band 12 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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RF	50 Ω		CORREC		SE	NSE:INT					Ere	quency
			PNO: IFGair	Fast 🕞			#Avg Typ	e: RMS	т	PE A WWWWW		
Ref 20	.00 di	Зm							Mkr1 777 -29	.00 MHz .35 dBm		Auto Tur
						Ĭ					Cr	enter Fre
											403.6	500000 MH
												Start Fre
												500000 M
										DL1 -13.00 dBm		
										1,		Stop Fre
											111.	500000 1411
											74	CF Ste 700000 MI
											Auto	Ma
											F	req Offs
under States	dana da Merca			and see as an and	n Relegend Afrikan	de stateter			Name of States o			01
												cale Typ
MHz 100 kHz	,			#VBV	/ 300 kHz		6	weep	Stop 35.86 ms (	777.0 MHz 14941 pts)	Log	L
	Ref 20	Ref 20.00 dl	Ref       50 Ω       AC         Ref       20.00 dBm         Image: Control of the second secon	RF 50 Ω AC CORREC PNO: IFGain Ref 20.00 dBm	RF       50 Ω       AC       CORREC         PNO: Fast       FileGain:Low         Ref 20.00 dBm       I       I         I       I	RF     50 Ω     AC     CORREC     SE       PNO: Fast     Trig: Fre       IFGain:Low     Trig: Atten: 3	PNO: Fast Free Run IFGain:Low Trig: Free Run Atten: 30 dB Ref 20.00 dBm Ref 20.00 dBm	RF         50 Ω         AC         CORREC         SENSE:INT         #Avg Typ           PNO: Fast         Trig: Free Run         Atten: 30 dB         #         #         Trig: Free Run           Ref 20.00 dBm         Image: Sense: Int         Image: Sen	RF         50 Ω         AC         CORREC         SENSE:INT         #Avg Type: RMS           PNO: Fast IFGain:Low         Trig: Free Run Atten: 30 dB         #Avg Type: RMS           Ref 20.00 dBm         Image: Sense:Int         Image: Sense:Int         Image: Sense:Int           Image: Sense:Int         Image: Sense:Int         Image: Sense:Int         Image: Sense:Int           Image: Sense:Int         Image: Sense:Int         Image: Sense:Int         Image: Sense:Int           Image: Sense: Sense:Int         Image: Sense:Int         Image: Sense: Sens	RF         50 Ω         AC         CORREC         SENSE.INT         #Avg Type: RMS         TRU           PNO: Fast         IFGain:Low         Trig: Free Run         Atten: 30 dB         Trig: Trig	RF         50 Ω         AC         CORREC         SENSE:INT         (10:48:17 AM Jul 22, 20:9)           PNO: Fast         Trig: Free Run         #Avg Type: RMS         Trace         22:3:5:6           Ref 20.00 dBm         Mkr1 777:00 MHz         -29:35 dBm           Coll         Coll         -29:35 dBm           Coll         -29:35	RF         50 Ω         AC         CORREC         SENSE:INT         #Avg Type: RMS         Trace         III: 23 4 50 DT ANNNNN         Free           PNO: Fast IFGein:Low         Trig: Free Run Atten: 30 dB         #Mkr1 777.00 MHz -29.35 dBm         C         C         403.           Ref 20.00 dBm         III: 430.0 dBm         III: 440.0 dBm

Plot 7-133. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)



Plot 7-134. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
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	pectrum Anal	yzer - Swep	t SA									- 6 ×
X/RL	RF	50 Ω		DRREC	Trig: Free		#Avg Typ	e: RMS	TRAC	M Jul 22, 2019 E 1 2 3 4 5 6 E A WWWWW A N N N N N	Fr	equency
10 dB/div Log	Ref 2	0.00 dE		FGain:Low	Atten: 30	) dB		N	lkr1 9.99 <sup>.</sup>			Auto Tune
10.0												enter Fred 0000000 GH
-10.0										DL1 -13.00 dBm	1.000	Start Free
-20.0											10.000	Stop Fre
-40.0			N. N. Market							1-	900 <u>Auto</u>	CF Stej .000000 MH Ma
60.0		,									ł	Freq Offse 0 H
-70.0											: Log	Scale Type
Start 1.0 #Res BW	00 GHZ / 1.0 MH	z		#VB	W 3.0 MHz		s	weep	Stop 10 15.60 ms (1			
ASG								STAT				

Plot 7-135. Conducted Spurious Plot (Band 13 - 10.0MHz QPSK - RB Size 1, RB Offset 0)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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RL	RF	lyzer - Swe 50 Ω		CORREC		SEI	NSE:INT			11.2	):15 AM Jul 22, 2019		
	Ĩ	20.35	AC		ast 🖵	Trig: Free	e Run	#Avg Ty	/pe: RMS	11.2	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Freq	luency
				IFGain	Low	Atten: 30	) dB				DETANNNN		
0 dB/div	Ref 2	0.00 d	Bm							Mkr1 8	22.75 MHz 50.99 dBm	A	uto Tun
.ºg							Ĭ						
10.0													nter Fre 00000 MH
10.0												420.5	
0.00													
												S	Start Fre
10.0											DL1 -13.00 dBm	30.0	00000 MH
											DET -13.00 GBM		
20.0												5	Stop Fre
													00000 MH
30.0													
													CF Ste
40.0												79.3	00000 MH
											1	<u>Auto</u>	Ма
50.0													
											1	Fr	eq Offse
60.0		Constant of the	a la participana	and any other			and a second						0 H
70.0 <b>hiked</b>	والمعادة فلأماره والمطو	الدعار (ويعطلة اريد	i Al A al Contral A	en altitelle policie de la coloca	andinala and	والمتليم والملية والمتحاصية							
/0.0												S	cale Typ
	.0 MHz								0	Sto	op 823.0 MHz	Log	<u> </u>
Res Bl	V 100 kH	Z			#VBW	300 kHz			sweep	38.06 m	is (15861 pts)		

Plot 7-136. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

	ctrum Analyzer - Swept SA	000050						11 100 0010		7 X
RL	RF 50 Ω AC	PNO: Fast			#Avg Type	e: RMS	TRAC	I Jul 22, 2019 E 1 2 3 4 5 6 E A WWWWW T A N N N N N	Frequen	су
0 dB/div	Ref 20.00 dBm	II Galil.Low				Μ	kr1 878. -61.	85 MHz 80 dBm	Auto	Tun
10.0									Center 924.50000	
0.0								DL1 -13.00 dBm	Start 849.00000	
0.0									Stop 1.00000000	
0.0									CF 15.10000 <u>Auto</u>	Ste 00 M M
0.0	1	ารจูสรีงระจารจุ้างรูกรูกเลยางไปประเท	nder verseter van de service de la constitue d	na an the second second	hay manager and the stand of the	rangaan segma-aalah	sag-risplagadasshakilingiy	<sup>1</sup> 6-15524	Freq C	Offs 0 I
tart 0.849	900 GHz						Stop 1.00	0000 GHz	Scale Log	e Typ L
	100 kHz	#VBV	V 300 kHz		9	sweep 7	7.248 ms (	3021 pts)		

Plot 7-137. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

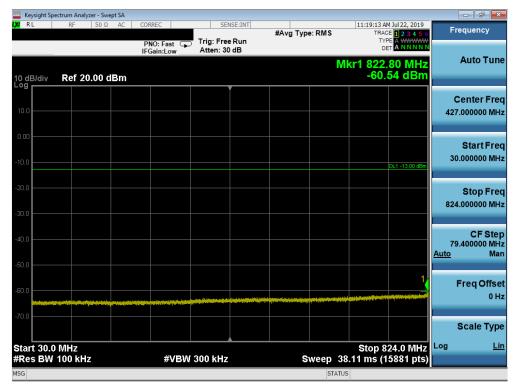
FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 99 of 277
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	ectrum Analy		ot SA											
L <mark>XI</mark> RL	RF	50 Ω	AC	CORREC		SI	ENSE:INT	#Ava	Type: RMS			1 2 3 4 5 6	F	requency
				PNO: IFGain	Fast 🖵 :Low	Trig: Fre Atten: 3					TYPE DET	A WWWWW A N N N N N		
10 dB/div Log	Ref 20	.00 di	Bm							Mkr1 §	9.974 -43.2	5 GHz 1 dBm		Auto Tune
- vy														Center Freq
10.0													5.50	0000000 GHz
0.00														Start Freq
-10.0											D	L1 -13.00 dBm	1.00	0000000 GHz
-20.0														Stop Freq
20.0													10.00	0000000 GHz
-30.0														05.044.0
-40.0									inter the state of the state of the state			<u> </u>	90 Auto	CF Step 0.000000 MHz Man
-50.0												La de Marcaldora	Auto	Mari
-60.0														Freq Offset
														0 Hz
-70.0														Scale Type
Start 1.00	0 GHz						<u> </u>			Sto	op 10.0	000 GHz	Log	Lin
#Res BW	1.0 MHz	4			#VBW	3.0 MH	z				ms (18	001 pts)		
MSG									S	TATUS				

Plot 7-138. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-139. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMBUND	Approved by: Quality Manager
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	n Analyzer - Swept SA									
LXI RL F	RF 50 Ω AC	CORREC		SE:INT	#Avg Typ	e: RMS	TRAC	1 Jul 22, 2019 E 1 2 3 4 5 6	Fr	equency
		PNO: Fast 🕞	Trig: Free Atten: 30				TYF			
						Ν	1kr1 849.	05 MHz		Auto Tune
10 dB/div R Log	ef 20.00 dBm				_		-60.	65 dBm		
									C	enter Freq
10.0									924	.500000 MHz
0.00										
0.00										Start Freq
-10.0								DL1 -13.00 dBm	849	.000000 MHz
-20.0										Stop Freq
-30.0									1.00	0000000 GHz
										CF Step
-40.0										.100000 MHz
-50.0									<u>Auto</u>	Man
1										
-60.0	60.6-15-05-06-05-07-99-06-06-06-0-0-0-0-0-0-0-0-0-0-0-0-0-0	el unadores do escolves associas oscile	و من	and the second second second		ale and a laterature				Freq Offset 0 Hz
					and the second	and a second second	han a maga para daga daga daga daga daga daga daga d			0112
-70.0										Scale Type
<b>0</b> 4							<b>0</b> 4			Lin
Start 0.84900 #Res BW 100		#VBW	300 kHz			Sweep	Stop 1.00 7.248 ms (	0000 GHz 3021 pts)	LUg	<u></u>
MSG						STAT				

Plot 7-140. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



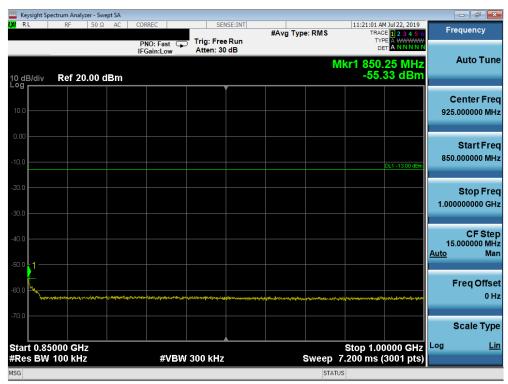
Plot 7-141. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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🔤 Keysight Spectrum Analyze									
KARL RF	50 Ω AC CO	RREC		SE:INT	#Avg Typ	e: RMS	TRAC	M Jul 22, 2019 E <b>1 2 3 4 5 6</b>	Frequency
		NO: Fast 😱 Gain:Low	Trig: Free Atten: 30				TYI Di		
10 dB/div Ref 20.	00 dBm						Mkr1 757. -61.	50 MHz 19 dBm	Auto Tune
				/					Center Freq
10.0									427.000000 MHz
0.00									
0.00									Start Freq
-10.0								DL1 -13.00 dBm	30.000000 MHz
-20.0									Stop Freq
-30.0									824.000000 MHz
-30.0									
-40.0									CF Step 79.400000 MHz
-50.0									<u>Auto</u> Man
								▲1	Freq Offset
-60.0									0 Hz
-70.0									Scale Type
Start 30.0 MHz #Res BW 100 kHz		#VBW	300 kHz		s	weep	8 Stop 38.11 ms (1	24.0 MHz 5881 pts)	Log <u>Lin</u>
MSG							TUS	p.co/	

Plot 7-142. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-143. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ctrum Analyzer - Swe										
LXI RL	RF 50 Ω	AC COI	RREC		VSE:INT	#Avg Typ	e: RMS	TRAC	M Jul 22, 2019 DE 1 2 3 4 5 6	F	requency
10 dB/div Log	Ref 20.00 d	IF	NO: Fast 🔾 Gain:Low	Trig: Free Atten: 30			М	⊳ kr1 9.99	9 5 GHz 65 dBm		Auto Tune
10.0											Center Freq 0000000 GHz
-10.0									DL1 -13.00 dBm	1.00	Start Freq 0000000 GHz
-20.0										10.00	Stop Freq 0000000 GHz
-40.0				-		a de la compania			1	90 <u>Auto</u>	CF Step 0.000000 MHz Man
-60.0											Freq Offset 0 Hz
-70.0 Start 1.00								Stop 10	.000 GHz	Log	Scale Type Lin
#Res BW			#VBW	/ 3.0 MHz		s	weep 1	5.60 ms (1	8001 pts)		<u></u>
MSG							STATU				

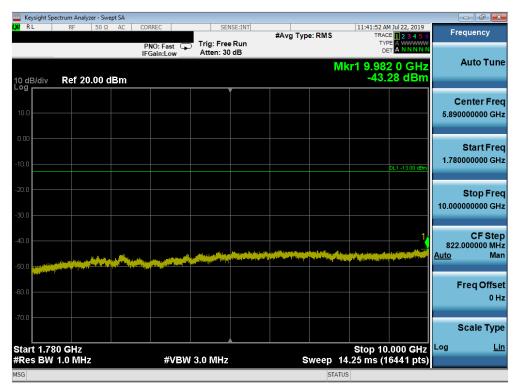
Plot 7-144. Conducted Spurious Plot (Band 26/5 - 1.4MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyz												
U RL	RF	50 Ω	AC	CORRE PNO:	:Fast G	Trig: F	SENSE:INT	#Avg T	ype: RMS	TR	AM Jul 22, 2019 ACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Freq	uency
0 dB/div	Ref 20	.00 dl	Bm	IFGai	n:Low	Atten:	30 dB			Mkr1 1.7	09 0 GHz 3.30 dBm	A	uto Tun
10.0													nter Fre 00000 MH
10.0											DL1 -13.00 d7		tart Fre
20.0 30.0											<u>`</u>		top Fre
40.0										a for an and a second as the second as a second as		167.90 <u>Auto</u>	CFSte 00000 MI Ma
60.0 <b></b>	**************************************		ungen gest and der fi		<del>مۇرە يەت</del> ەپچانچ <u>ە</u>							Fre	e <b>q Offs</b> 0 I
70.0 Start 0.03										Stop 1	.7090 GHz	Log	ale Typ
Res BW	1.0 MHz				#VBV	V 3.0 MH	IZ		Sweep	2.239 ms	(3359 pts)		

Plot 7-145. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



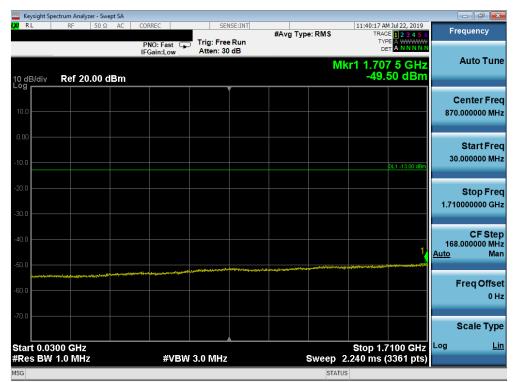
Plot 7-146. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-147. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



Plot 7-148. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 04 of 077
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	ectrum Analyzer - S										
LXVI RL	RF 50	Ω AC	CORREC	SEI	NSE:INT	#Avg Typ	e RMS		M Jul 22, 2019 CE 1 2 3 4 5 6	Fr	equency
			PNO: Fast IFGain:Low	Trig: Free Atten: 30				۳ ۵ 19.97 Mkr1			Auto Tune
10 dB/div	Ref 20.00	dBm						-43.	34 dBm		
10.0											Center Freq 0000000 GHz
-10.0									DL1 -13.00 dBm	1.78	Start Freq 0000000 GHz
-20.0										10.00	Stop Freq 0000000 GHz
-40.0				and the second					1. 	822 <u>Auto</u>	CF Step 2.000000 MHz Man
-60.0											Freq Offset 0 Hz
-70.0											Scale Type
Start 1.78 #Res BW			#3.0	3W 3.0 MHz		-	woon		.000 0112	Log	Lin
#Res DW	1.0 WINZ		#VL	5W 3.0 WIHZ		5	_	14.25 ms (*	1044 T pts)		
DCM							514	4103			

Plot 7-149. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



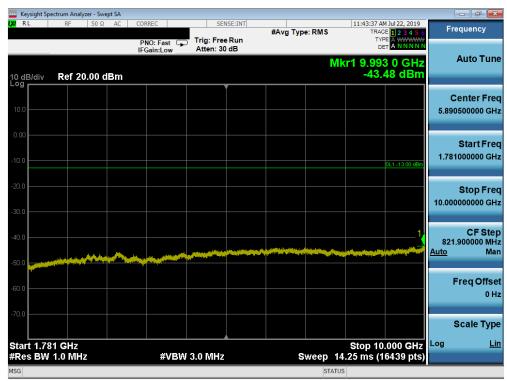
Plot 7-150. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
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	t Spectrum An											_	
LX/IRL	RF	<u>50 Ω</u>	AC	CORREC			NSE:INT	#Avg Typ	e: RMS		29 AM Jul 22, 2019 RACE 1 2 3 4 5 6	F	requency
				PNO: IFGain	Fast 🖵 :Low	Trig: Fre Atten: 30							
									Ν	/kr1 1.	705 0 GHz		Auto Tune
10 dB/div Log	Ref 2	20.00 d	Bm						1	-4	9.44 dBm		
							Ī					(	Center Freq
10.0												87	0.000000 MHz
0.00													
0.00													Start Freq
-10.0											DL1 -13.00 dBm	3	0.000000 MHz
-20.0													Stop Freq
-30.0												1.71	0000000 GHz
-40.0												16	CF Step 8.000000 MHz
											1	<u>Auto</u>	Man
-50.0			معيدور للصبيان				122-30-600 - 100-5-4 <sup>-6</sup> 00	H + 1992					
-60.0													Freq Offset
													0 Hz
-70.0													Seele Tree
													Scale Type
	0300 GH									Stop	1.7100 GHz	Log	<u>Lin</u>
	W 1.0 M	HZ			#VBW	3.0 MHz				_	s (3361 pts)		
MSG									STA	TUS			

Plot 7-151. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-152. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

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	ctrum Analyzer - Swe										
LXIRL	RF 50 Ω	AC CO	RREC	SEN	ISE:INT	#Avg Typ	e: RMS		M Jul 22, 2019	Fi	requency
10 dB/div	Ref 10.00 d	IF	NO: Fast ⊂ Gain:Low	Trig: Free Atten: 20		• 7.		۲۷۱ ID kr1 18.28			Auto Tune
0.00											Center Freq 0000000 GHz
-10.0									DL1 -13.00 dBm	10.00	Start Freq 0000000 GHz
-30.0								<b>1</b>		20.00	Stop Freq 0000000 GHz
-50.0										1.00 <u>Auto</u>	CF Step 0000000 GHz Man
-70.0											Freq Offset 0 Hz
-80.0 Start 10.0	00 CH7							Stop 20	.000 GHz	Log	Scale Type Lin
#Res BW			#VBW	3.0 MHz		S	weep	25.33 ms (2			
MSG								TUS			

Plot 7-153. Conducted Spurious Plot (Band 66/4 - 15.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

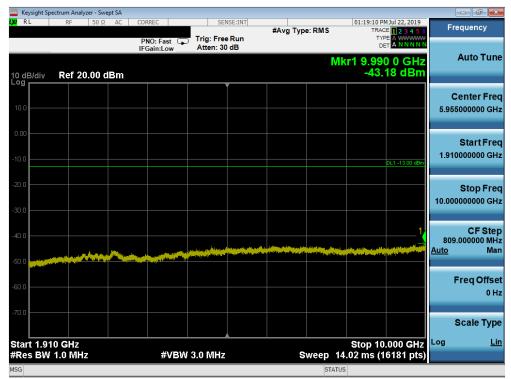
FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dege 07 of 077	
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Band 25/2

Keysight Spectrum Analyzer - Swept SA				
XIRL RF 50Ω AC	PNO: Fast Trig: Free R	#Avg Type: RMS	01:19:04 PM Jul 22, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWW	Frequency
10 dB/div Ref 20.00 dBm	IFGain:Low Atten: 30 dl	В	Mkr1 1.846 0 GHz -40.74 dBm	Auto Tun
10.0				Center Fre 939.000000 MH
-10.0			DL1 -13.00 dBm	Start Fre 30.000000 MH
-20.0				Stop Fre 1.848000000 GF
40.0			1 <u>-</u>	CF Ste 181.800000 Mi <u>Auto</u> Ma
				Freq Offs 0 I
70.0 Start 0.0300 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sween	Stop 1.8480 GHz 2.425 ms (3639 pts)	Scale Typ Log <u>L</u>
ISG			7.423 ms (3039 pts)	

Plot 7-154. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



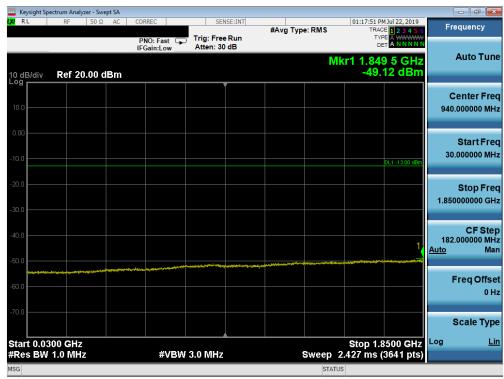
Plot 7-155. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	pe:		
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	ectrum Analyzer - Swe									- F ×
LXU RL	RF 50 Ω	AC CO	RREC		ISE:INT	#Avg Typ	e: RMS	TRAC	M Jul 22, 2019 DE <b>1 2 3 4 5 6</b>	Frequency
10 dB/div	Ref 10.00 d	, IF	NO: Fast 🕞 Gain:Low	Trig: Free Atten: 20			M	⊳ kr1 18.26	7 0 GHz 78 dBm	Auto Tune
0.00										Center Fred 15.000000000 GHz
-10.0									DL1 -13.00 dBm	Start Fred 10.000000000 GHz
-30.0								1		Stop Fred 20.000000000 GH2
-50.0 -60.0		a na sa na sa kata di kata sa k								CF Step 1.000000000 GHz <u>Auto</u> Mar
-70.0										Freq Offset 0 Hz
-80.0 Start 10.0	000 GHz							Stop 20	.000 GHz	Scale Type Log <u>Lir</u>
#Res BW			#VBW	3.0 MHz		S	weep	25.33 ms (2	0001 pts)	
MSG							STA	TUS		

Plot 7-156. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



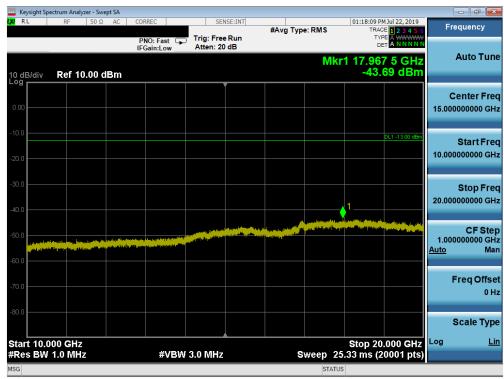
Plot 7-157. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	e:		
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	ectrum Analyzer - S										
LXU RL	RF 50	Ω AC	CORREC	SEN	SE:INT	#Avg Type	RMS		M Jul 22, 2019 E 1 2 3 4 5 6	Fr	equency
			PNO: Fast G	Trig: Free Atten: 30		"a)H		TY D			Auto Tune
10 dB/div Log	Ref 20.00	dBm					N	1kr1 9.98 -43.	7 0 GHZ 41 dBm		
										c	enter Freq
10.0										5.95	5000000 GHz
0.00											Start Freq
-10.0									DL1 -13.00 dBm	1.910	0000000 GHz
									DET TO SO MOIN		
-20.0											Stop Freq
-30.0										10.000	0000000 GHz
									1.		CF Step
-40.0						dina and the second second second				809 Auto	.000000 MHz Man
-50.0	and the second	<u> </u>	-							Auto	Wan
										F	Freq Offset
-60.0											0 Hz
-70.0											
											Scale Type
Start 1.91								Stop 10	.000 0112	Log	Lin
#Res BW	1.0 MHZ		#VBV	V 3.0 MHz		S		14.02 ms (1	6181 pts)		
MSG							STAT	rus			

Plot 7-158. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-159. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Т Туре:		
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	ght Spect	rum Analy													- 6 ×
LXU RL		RF	50 Ω	AC	CORRE	EC		SENSE:INT	#Avg Typ	e: RMS	01		Jul 22, 2019 1 2 3 4 5 6	F	requency
					PNC IFGa	):Fast G in:Low		Free Run : 30 dB	0 //		/lkr1	TYPE DET	0 GHz 1 dBm		Auto Tune
10 dB/c	div	Ref 2	).00 d	Bm						1		-49.3	тавт		
10.0															Center Freq 0.000000 MHz
-10.00												C	)L1 -13.00 dBm	3	Start Freq 0.000000 MHz
-20.0														1.85	Stop Freq 50000000 GHz
-40.0													1	18: <u>Auto</u>	CF Step 2.000000 MHz Man
-50.0			-	والماوجة وعادو مرتوع		الدغاج ويدبونجي		and the second second second	ala and a second se		where we had store		<del>«</del>		
-60.0															Freq Offset 0 Hz
-70.0															Scale Type
Start										_			000 0112	Log	<u>Lin</u>
#Res	BW 1	.0 MH	Z			#VB\	V 3.0 M	HZ			_	7 ms (3	641 pts)		
MSG										STA	TUS				

Plot 7-160. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-161. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analyzer - Swept S	SA				
LXI RL	RF 50Ω A	AC CORREC	SENSE:INT	#Avg Type: RMS	01:20:42 PM Jul 22, 2019 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref 10.00 dBi	PNO: Fast G	) Trig: Free Run Atten: 20 dB	М	kr1 18.309 0 GHz -43.95 dBm	Auto Tune
0.00						Center Freq 15.000000000 GHz
-10.0					DL1 -13.00 dBm	Start Freq 10.000000000 GHz
-30.0					1	Stop Freq 20.000000000 GHz
-50.0		generalizet alla sugar di sugar para da para di Maria. Mana da parta da para d				CF Step 1.000000000 GHz <u>Auto</u> Man
-70.0						Freq Offset 0 Hz
-80.0 Start 10.0	000 GHz				Stop 20.000 GHz	Scale Type Log <u>Lin</u>
#Res BW		#VBW	3.0 MHz	Sweep	25.33 ms (20001 pts)	
MSG					TUS	

Plot 7-162. Conducted Spurious Plot (Band 25/2 - 10.0MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

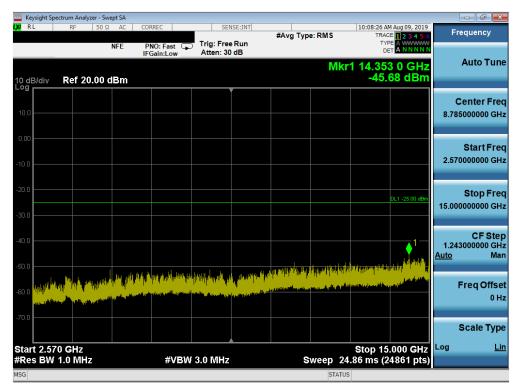
FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	: EUT Type:		Dage 102 of 277	
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### Band 7

	ctrum Analyze										d X
XU RL	RF	50 Ω AC	CORREC PNO: Fast			#Avg Typ	e: RMS	TRAC	Aug 09, 2019 E 1 2 3 4 5 6 A WWWWWW T A N N N N N	Frequ	ency
10 dB/div	Ref 20.	00 dBm					Μ	kr1 2.38 -55.	) 5 GHz 32 dBm	Au	to Tune
10.0											ter Freq 1000 GHz
-10.0											art Freq 1000 MHz
-20.0									DL1 -25.00 dBm	St 2.475000	op Frec 1000 GHz
-40.0											CFStep 1000 MH Mar
-60.0	المدارز وأولونا	k kun din din di kanda			T					Fre	q Offset 0 Hz
											ile Type
Start 0.03 #Res BW	0 GHz 1.0 MHz		#VBW	/ 3.0 MHz			Sweep	2 Stop 3.260 ms (	.475 GHz 4891 pts)	Log	<u>Lin</u>
MSG							STATU	JS			

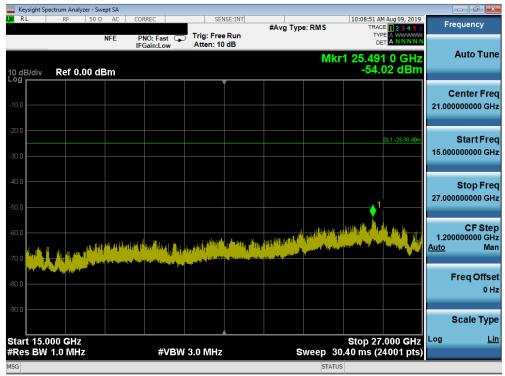
Plot 7-163. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



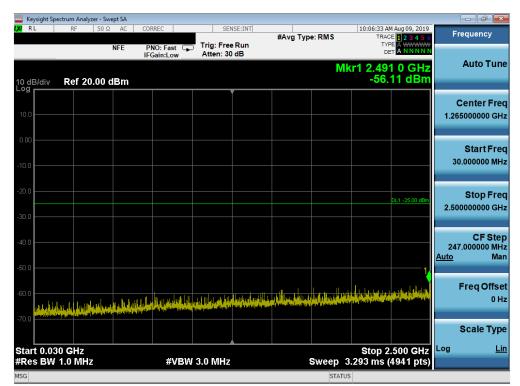
Plot 7-164. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
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Plot 7-165. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



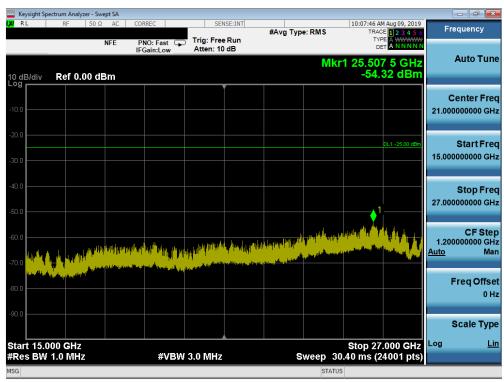
Plot 7-166. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	pectrum Analy.		t SA								
L <mark>XI</mark> RL	RF	50 Ω	AC CO	RREC	SEI	ISE:INT	#Avg Typ	e: RMS	TR	AM Aug 09, 2019 ACE 1 2 3 4 5 6	Frequency
	_	N		NO: Fast 🕞 Gain:Low	Trig: Free Atten: 30				т		
10 dB/div Log	Ref 20	0.00 dE	3m					Μ	lkr1 14.5 <sup>,</sup> -46	19 5 GHz .44 dBm	Auto Tune
10.0											Center Freq 8.785000000 GHz
-10.0											Start Freq 2.570000000 GHz
-20.0										DL1 -25.00 dBm	Stop Freq 15.000000000 GHz
-40.0							l ali , dia Jakota atti s		at not local the table state	1	CF Step 1.243000000 GHz <u>Auto</u> Man
-60.0	la hata			riaalg <sup>di</sup> lling Datum					an a		Freq Offset 0 Hz
-70.0											Scale Type
Start 2.5	70 GHz / 1.0 MHz			#\/P\	/ 3.0 MHz			woop	Stop 1	5.000 GHz 24861 pts)	Log <u>Lin</u>
				#VDV	2 J.U WHZ		5			2480 T pls)	
ISG								ST	ATUS		

Plot 7-167. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



Plot 7-168. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	sight Spec													- d ×
L <mark>XI</mark> RL		RF	50 Ω	AC	CORREC		SEN	ISE:INT	#Avg Typ	e: RMS		M Aug 09, 2019 CE 1 2 3 4 5 6	Fr	equency
				NFE	PNO: F IFGain:	ast 🖵	Trig: Free Atten: 30		•		TY			
					in Oam.	201	,			Ν	/kr1 2.29	4 0 GHz		Auto Tune
10 dE	3/div	Ref 2	0.00 d	Bm							-56.	63 dBm		
Log							· · · · ·							Contor From
10.0														Center Freq 5000000 GHz
													1.20	0000000000
0.00														
													20	Start Freq 0.000000 MHz
-10.0													30	
-20.0														
-20.0												DL1 -25.00 dBm		Stop Freq
-30.0													2.50	0000000 GHz
														CE Oton
-40.0													247	CF Step .000000 MHz
													<u>Auto</u>	Man
-50.0												<b>▲</b> 1		
-60.0							- <u>    .</u>		1					Freq Offset
	al had b	و و اواله ا		Adapter							u, and an	A STREET OF STREET		0 Hz
-70.0	والمتلكة سامه	at is lines	- Collins and											
														Scale Type
	t 0.030											2.500 GHz	Log	<u>Lin</u>
#Res	5 BW 1	.0 MH	z			#VBW	3.0 MHz			Sweep	3.293 ms	(4941 pts)		
MSG										STA	TUS			

Plot 7-169. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 24 - High Channel)



Plot 7-170. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 24 - High Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMBUND	Approved by: Quality Manager						
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	ctrum Analyzer - Sv	vept SA									d X
LXIRL	RF 50 \$	AC CC	ORREC		ISE:INT	#Avg Typ	e: RMS	TRA	M Aug 09, 2019 CE <b>1 2 3 4 5 6</b>	Frequen	псу
			PNO: Fast 🕞 Gain:Low	Trig: Free Atten: 10							
(0. IB) II	<b>D</b> -6000-	<b>D</b>					Mk	(r1 25.48	3 0 GHz 94 dBm	Auto	Tune
10 dB/div	Ref 0.00 d	BM		,				-02.			
										Cente	
-10.0										21.0000000	00 GHz
-20.0											
									DL1 -25.00 dBm		rt Freq
-30.0										15.0000000	00 GHz
-40.0											
-40.0										Sto 27.0000000	p Freq
-50.0								_ <b></b> ∳ <sup>1</sup>		27.0000000	00 GHZ
								n da, dahar kati da <mark>k</mark> ata	And the second	CI	F Step
-60.0	ەللىغان يىلى	a linea a linka a data	المرادي أرامانا والأرجاس		th state <sup>th</sup> you	hip <sup>aral</sup> ardarik. <sub>Na</sub>	allin, indi	n n n n n Maria		1.2000000	
-70.0	A SAMPAGE I	an an an an an Alla	and the second second	ا الاسترى م	i i ' National state and the second	المحمد والمتحمد المحا	المرافق المعلم		and the second	<u>Auto</u>	wan
salarith, die	and the second se	a de contra a contra a		and the particular						Frea	Offset
-80.0											0 Hz
-90.0											
										Scale	е Туре
Start 15.0	00 GHz							Stop 27	7.000 GHz	Log	Lin
#Res BW			#VBW	/ 3.0 MHz		S	weep 3	30.40 ms (2	24001 pts)		
MSG 횢 Point	s changed; all	traces clea	red				STAT	US			

Plot 7-171. Conducted Spurious Plot (Band 7 - 5.0MHz QPSK - RB Size 1, RB Offset 24 - High Channel)

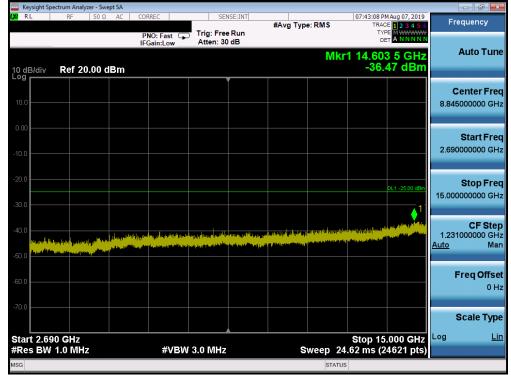
FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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## Band 41 PC2

	Spectrum Anal											
XU RL	RF	50 Ω	AC	PNO: Fast	Trig: Free		#Avg Typ	e: RMS	TRAC	M Aug 07, 2019 CE 1 2 3 4 5 6 PE M WWWWWW T A N N N N N	Fred	luency
10 dB/div	Ref 2	0.00 d	Bm	IFGain:Low _	Atten: 30	Jab		Mk	r1 2.26	5 0 GHz 31 dBm	A	uto Tur
10.0												nter Fre
0.00												Start Fre
20.0										DL1 -25.00 dBm		Stop Fre
40.0	in station in the second s			na statu alamata s	afeles Hansad ( <mark>Å</mark> ttelsene	فارد واستان والله و	handhal distairt an fail bailean	a ha bala ka		<mark>1</mark> بالارابية المراجع	244.5 <u>Auto</u>	CF Ste 00000 M M
60.0											Fr	e <b>q Off</b> s 0
70.0												cale Ty
	030 GHz N 1.0 MH	z		#VB	N 3.0 MHz			Sweep 3	Stop 2 .260 ms (	.475 GHz 4891 pts)	Log	Ĺ
ISG								STATUS	5			

Plot 7-172. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



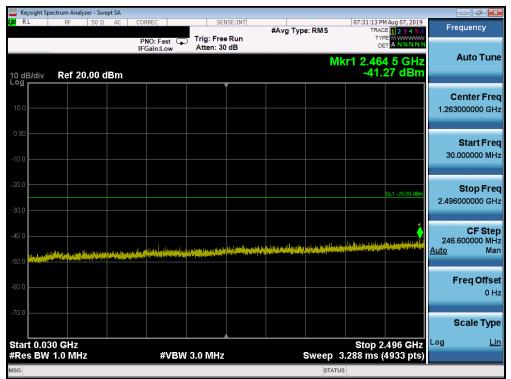
Plot 7-173. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
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	pectrum Analyz												
X/RL	RF	50 Ω	AC	CORREC			ISE:INT	#Avg Ty	e: RMS	TE	PM Aug 07, 2019 RACE 1 2 3 4 5 6	Fr	equency
	_			PNO: Fas IFGain:Lo		Trig: Free Atten: 10							
10 dB/div	Ref 0.0	)0 dBi	m						Μ	kr1 26.9 -4	86 0 GHz 6.32 dBm		Auto Tun
- <sup>0</sup> 9						,						(	Center Fre
-10.0												21.00	0000000 GH
-20.0													
											DL1 -25.00 dBm	45.00	Start Free 0000000 GH
-30.0												15.00	0000000 GH
-40.0											1		Stop Fre
										ملين فالغور	Los as that a last the	27.00	0000000 GH
-50.0		<u>.</u>				1 July Laborer	And Although and			and the second sec			
-60.0	<sup>an</sup> begelan ber <sup>o</sup> nserie <sup>An</sup> teresigen di		and the second se	anga katangan sa	an trainight		and the second	ALCOLOU				1.20	CF Ste 0000000 GH
-70.0												<u>Auto</u>	Ма
70.0													Freq Offse
-80.0													0 H
-90.0													
													Scale Typ
	000 GHz									Stop 2	27.000 GHZ	Log	Li
#Res B₩	/ 1.0 MHz			#	VBW	3.0 MHz		\$	Sweep	30.40 ms	(24001 pts)		

Plot 7-174. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



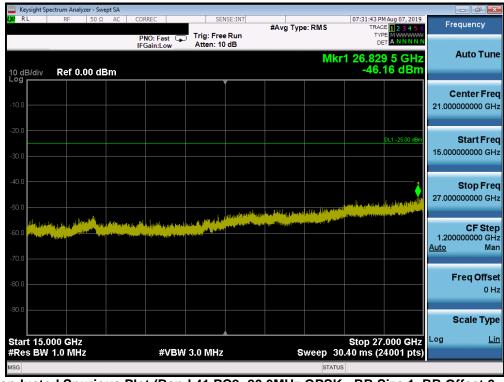
Plot 7-175. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager	
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	rum Analyzer - Swe	ept SA								- <b>6</b>
LX/IRL	RF 50 Ω	AC CO	RREC	SEN	ISE:INT	#Avg Typ	e: RMS		Aug 07, 2019	Frequency
			NO:Fast 🖵 Gain:Low	Trig: Free Atten: 30		• ,,		TYP		
		IF	Gain:Low	Atten. 30	ub		Mk	r1 14.85		Auto Tun
10 dB/div	Ref 20.00 d	lBm						-35.	61 dBm	
40.0										Center Fre
10.0										8.845000000 GH
0.00										
0.00										Start Fre
-10.0										2.69000000 GH
-20.0										Stop Fre
									DL1 -25.00 dBm	15.00000000 GH
-30.0									<u> </u>	
-40.0									La particular particular	CF Ste
-40.0	و بالغانية و مانانية مار مانيا	<sub>dedbase</sub> ttinger	a l <sup>ala</sup> na la seperatoria	and the second	Acabalan Alam In-	a tan manadi kanadi	a staat oo sa	en se an participation de la compaction de La compaction de la compact	and the sharehouse	1.231000000 GH Auto Ma
-50.0 10.00 10.00			ي من المركز من المركز من التي يركز الله المركز ا المركز من المركز الم		والمرياة الشلاف مادرة					<u>Auto</u> Ma
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Start 2.690								Stop 15	000 012	Log <u>L</u> i
#Res BW 1	0 MHz		#VBW	3.0 MHz		S	weep 2	4.62 ms (2	4621 pts)	
MSG							STATU	S		

Plot 7-176. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)



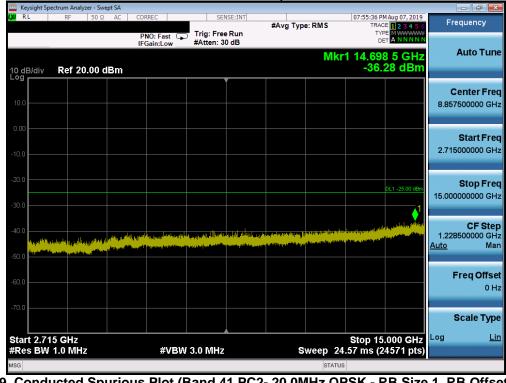
Plot 7-177. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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	ectrum Analy		ot SA										
XI RL	RF	50 Ω	AC	CORREC			ISE:INT	#Avg Typ	e: RMS	TRAC	MAug 07, 2019 DE 1 2 3 4 5 6	Fr	equency
				PNO: F IFGain:	ast ⊂ ∟ow	Trig: Free #Atten: 3				TYI Di			
									Μ	kr1 2.42	5 5 GHz 19 dBm		Auto Tune
10 dB/div _og	Ref 20	.00 dl	Bm							-37.	19 aBm		
												C	enter Free
10.0												1.263	8000000 GH:
0.00													
0.00													Start Free
10.0												30	.000000 MH;
20.0											DL1 -25.00 dBm		Stop Free
30.0												2.496	5000000 GH
											<b>≬</b> <sup>1</sup>		CF Ster
40.0	يعادي إل أأخاص	disandel	ula provinsi I	والمراد ومقال					<u>the second</u>			246	600000 MH:
50.0		a constant and a second	an stately									<u>Auto</u>	Mar
30.0												_	
60.0												ŀ	Freq Offse 0 Hi
													011
70.0													Scale Type
												Log	
Start 0.03	30 GHz 1.0 MHz	,			#VRM	3.0 MHz			Sween	Stop 2 3.288 ms (	.496 GHz	Log	Lir
ISG						- <b>3.0</b> Will 12			STAT		Hoos pts)		

Plot 7-178. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 99 - High Channel)



Plot 7-179. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 99 - High Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager	
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	pectrum Analy												
X/RL	RF	50 Ω	AC	CORREC		SEN		#Avg Typ	e: RMS		07 PM Aug 07, 2019 RACE 1 2 3 4 5 6 TYPE M WWWWW DET A N N N N N	F	requency
10 dB/div	Ref 0.	00 dBr		IFGain:Lo		#Atten: 16			Μ	lkr1 26.8 -3	B51 5 GHz 9.70 dBm		Auto Tune
-10.0													Center Fre 0000000 GH
30.0											DL1 -25.00 dBm	15.00	Start Fre 0000000 GH
-40.0	a and the second se			en beter en andere en	۰	d tree states	erat porte transit	a a particular a particul	And the second second	l parte de la competencia a parte de la competencia de la competencia de la competencia de la competencia de la a parte de la competencia de la		27.00	<b>Stop Fre</b> 0000000 GH
50.0 <b></b>				ut dit i senari di ca		andra and a dar and a dar						1.20 <u>Auto</u>	CF Ste 0000000 G⊦ Ma
30.0													Freq Offs 0 H
90.0												Log	Scale Typ
	.000 GHz V 1.0 MH;			#	VBW	3.0 MHz		s	weep	Stop 30.40 ms	27.000 GHz (24001 pts)	LUg	Li
ISG									ST	ATUS			

Plot 7-180. Conducted Spurious Plot (Band 41 PC2- 20.0MHz QPSK - RB Size 1, RB Offset 99 - High Channel)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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### 7.4 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.

# The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.

### 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  $\geq$  3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points  $\geq 2 \times \text{Span/RBW}$
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

#### Test Setup

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



Figure 7-3. Test Instrument & Measurement Setup

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#### Test Notes

Per 22.917(b) 24.238(a) 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.

Per 27.53(g) for operations in the 698-746 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.

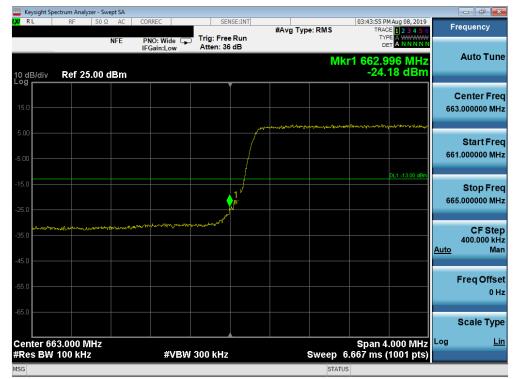
Per 27.53(c)(5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c)(4) is 65 + 10  $\log_{10}(P) = -35$ dBm in a 6.25kHz bandwidth.

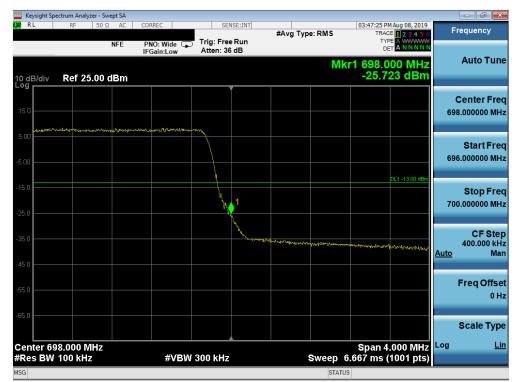
Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than  $40 + 10 \log (P) dB$  on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P) dB$  on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P) dB$  on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.

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Plot 7-181. Lower Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-182. Upper Band Edge Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)

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	pectrum Analyz											
U RL	RF	50Ω A		REC		Run	#Avg T	ype: RMS	TRA TY	PM Aug 08, 2019 CE 1 2 3 4 5 6 (PE A WWWWW	F	requency
0 dB/div	Ref 25.		IFC	Sain:Low	Atten: 36			N		000 MHz 24 dBm		Auto Tun
15.0												Center Fre 3.000000 M⊦
5.00							/wheeline wheeline of the	Jarra an	akonny Unakysy too an typy	เป็นของสุดภาณะ	65	Start Fre 9.000000 MH
25.0						1				DL1 -13.00 dBm	66	Stop Fr 7.000000 M
35.0 <b>****</b>	area a fara a	un nan	dependentation	rectory april a subsection	the approximation of the second se						<u>Auto</u>	CF Ste 800.000 k M
55.0												Freq Offs 0
enter 6	63.000 M	H7							Snan S	3.000 MHz		Scale Tyj L
	100 kHz			#VBW	/ 300 kHz			Sweep	13.33 ms	(1001 pts)		
SG								STA	TUS			

Plot 7-183. Lower Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-184. Upper Band Edge Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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🔤 Keysight Spectrum Ana							
LXURL RF	50 Ω AC	CORREC	SENSE:INT	#Avg Typ	e: RMS	05:20:43 PM Aug 08, 2019 TRACE 1 2 3 4 5	
10 dB/div Ref 2	NFE	PNO: Wide 🖵 IFGain:Low	Trig: Free Run Atten: 36 dB			TYPE A WWWW DET A NNNN TA NNNN TA NNNN TA NNNN TA NNNN TYPE A WWWW DET A NNNN TA NNNN	Auto Tune
15.0							Center Freq 663.000000 MHz
-5.00					han and the second s		Start Freq 657.000000 MHz
-15.0	an and the state of the state o	میں جس رہے اس				DL1 -13.00 dBm	Stop Freq 669.000000 MHz
-35.0							CF Step 1.200000 MHz <u>Auto</u> Man
-55.0							Freq Offset 0 Hz
-65.0 Center 663.000 I	MHz					Span 12.00 MHz	Scale Type Log <u>Lin</u>
#Res BW 150 kH		#VBW	470 kHz		Sweep	1.000 ms (1001 pts	
MSG					STATU		

Plot 7-185. Lower Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)



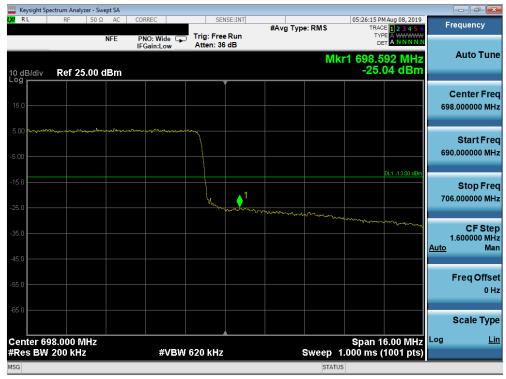
Plot 7-186. Upper Band Edge Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)		SAMSUNG		Approved by: Quality Manager
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🚾 Keysight Spectrum Analyzer - Swept SA					
XIRL RF 50Ω AC	CORREC SI	ENSE:INT #Avg Ty		MAug 08, 2019 CE 1 2 3 4 5 6	Frequency
NFE	PNO: Wide Trig: Fro IFGain:Low Atten: 3	ee Run	T) E		Auto Tune
10 dB/div Ref 25.00 dBm			Mkr1 662.9 -22	936 MHz .98 dBm	AutoTune
		Ť			Center Freq
15.0					663.000000 MHz
5.00		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		- margan	
-5.00					Start Freq 655.000000 MHz
-5.00				DL1 -13.00 dBm	
-15.0		1			Stop Freq
-25.0	and the second s	Sund			671.000000 MHz
mmmmmm					CF Step
-35.0				A	1.600000 MHz uto Man
					Freq Offset
-55.0					0 Hz
-65.0					Seale Turne
					Scale Type
Center 663.000 MHz #Res BW 200 kHz	#VBW 620 kH	7	Span ' Sweep 1.000 ms	0.00 10112	og <u>Lin</u>
MSG	#VBW 020 KH	2	Sweep 1.000 ms	(Toor pis)	

Plot 7-187. Lower Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)



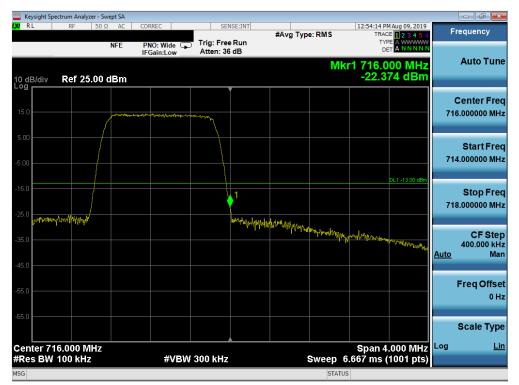
Plot 7-188. Upper Band Edge Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)		AMSUNG		Approved by: Quality Manager
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RL	RF	50 Ω	AC	CORREC		SENSE:INT		12:53:	06 PM Aug 09, 2019		
			NFE	PNO: Wide IFGain:Low		Free Run 1: 36 dB	#Avg Type: I		TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN		uency
0 dB/div	Ref	25.00 d	Bm					Mkr1 699	9.000 MHz 22.62 dBm	A	uto Tun
15.0							New Your President Martines Martines	a service and			nter Fre
5.00											tart Fre
25.0						<b>1</b>			DL1 -13.00 dBm		top Fre 0000 MH
35.0 	rectoristication	myyyddady	unteittij <sup>use</sup>	ny april a histor	unan unan un	аул <sup>и</sup>			WAY-UPANA WAYALAN		CF Ste 0.000 kł Ma
55.0										Fre	eq Offs 0 I
65.0											ale Typ
	699.000 W 100 k			#VI	BW 300 k	Hz	Sv	Spa veep 6.667 m	11 4.000 191112	Log	L

Plot 7-189. Lower Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)



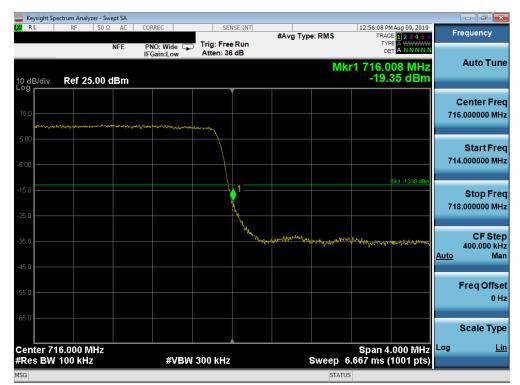
Plot 7-190. Upper Band Edge Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	pectrum Analy:										
XI RL	RF	50 Ω AC	CORREC	SEN	ISE:INT	#Avg Type	e: RMS		M Aug 09, 2019 CE 1 2 3 4 5 6	F	requency
10 dB/div	Ref 25	NFE	PNO: Wide 🖵 IFGain:Low	Trig: Free Atten: 36			М	۲۲ ۵ kr1 699.0			Auto Tune
15.0						ala ara ang ang ang ang ang ang ang ang ang an	har-allerature	ne for the second s	N colorthysterometholsee		Center Frec 9.000000 MH2
-5.00									DL1 -13.00 dBm	69	Start Fred 7.000000 MHz
-15.0					1				0C1 -13.00 (BHI	70 <sup>.</sup>	Stop Fred 1.000000 MH
-35.0	hen for das to the active	helder and more thank	non al and a second and a second	1940- <b>0</b> 447						<u>Auto</u>	CF Stej 400.000 kH Mar
-55.0											Freq Offse 0 H
-65.0	00.000-84										Scale Type Lir
Center 69 #Res BW			#VBW	300 kHz			Sweep	Span 4 6.667 ms	.000 MHz (1001 pts)	LUg	
MSG							STAT				

Plot 7-191. Lower Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-192. Upper Band Edge Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	rum Analyzer - Sw										
X/RL	RF 50 Ω		CORREC		Run	#Avg Typ	e: RMS	TRAC	Aug 09, 2019 E 1 2 3 4 5 6 E A WWWWW	F	requency
10 dB/div	Ref 25.00 c	NFE diBm	PNO: Wide IFGain:Low	Atten: 36			Mk	r1 699.0			Auto Tune
15.0						and the second of the second o	ኯኯጞ፟፟፟፟፟፟ኯኯጞኇዸዸኯኯኯ	anne to dilatan u	And Anne a st		Center Free 9.000000 MH
5.00										697	Start Free 7.000000 MH
-15.0					1.				DL1 -13.00 dBm	70'	Stop Fre 1.000000 MH
35.0 <b></b>	part product Newson Product	later the second	ing-calify-ingradianalianafian	hour to all the second second						<u>Auto</u>	CF Ste 400.000 kH Ma
55.0											Freq Offse 0 H
65.0 Center 699.	000 MHz							Snan /	.000 MHz		Scale Typ <u>Li</u>
#Res BW 1			#VBW	/ 300 kHz			Sweep (	5,667 ms (	1001 pts)		
ISG							STATU				

Plot 7-193. Lower Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)



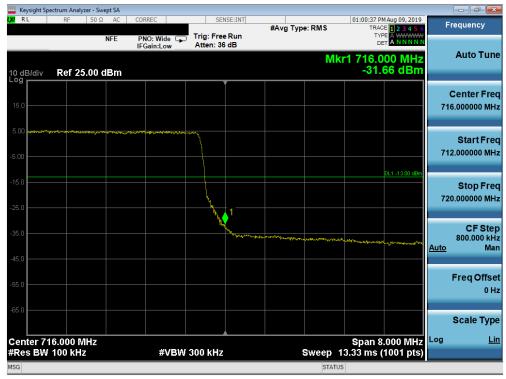
Plot 7-194. Upper Band Edge Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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🔤 Keysight Spectrum A						
KI RE RF	50 Ω AC	CORREC	SENSE:INT	#Avg Type: RM		Frequency
10 dB/div Ref	NFE 25.00 dBm	PNO: Wide IFGain:Low	Trig: Free Run Atten: 36 dB		Mkr1 698.976 MHz -29.29 dBm	Auto Tune
15.0						Center Freq 699.000000 MHz
-5.00				an und and an angel of the second	and a construction of the second s	Start Freq 695.000000 MHz
-15.0			1.00		DL1 -13.00 dBm	Stop Frec 703.000000 MHz
-35.0	an galanta ang ang ang ang ang ang ang ang ang an	manna				CFStep 800.000 kHz <u>Auto</u> Mar
-55.0						Freq Offse 0 Hz
-65.0 Center 699.000					Span 8.000 MHz	Scale Type Log <u>Lir</u>
#Res BW 100 k	HZ	#VBW	300 kHz		ep 13.33 ms (1001 pts)	
ISG					STATUS	

Plot 7-195. Lower Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-196. Upper Band Edge Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

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Plot 7-197. Lower Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-198. Lower Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

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	pectrum Ana												- 6 2
RL	RF	50 Ω	AC	CORREC	∷ ∣ Wide ⊂		e Run	#Avg Typ	e: RMS	TRA T)	AM Jul 22, 2019 CE 1 2 3 4 5 6 (PE A WWWW	Fre	equency
0 dB/div	Ref 2	5.00 d	Bm	IFGair	n:Low	Atten: 3	6 dB		Μ	kr1 787.	000 MHz 77 dBm		Auto Tur
15.0													enter Fre
5.00 <b></b>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ale a construction	and and a second									785.	Start Fr .000000 M
5.0						h h	1				DL1 -13.00 dBm	789.	Stop Fr .000000 M
5.0								~University of the second second	lpstrenge and		have a factor of the second	<u>Auto</u>	CF St 400.000 k N
5.0												F	Freq Offs 0
5.0	'87.000 I									Spor	4.000 MHz		Scale Ty
	87.000 I V 100 kH				#VBV	V 300 kH:	2		Sweep	span 4 6.667 ms	(1001 pts)	109	-
G									STA	TUS			

Plot 7-199. Upper Band Edge Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)



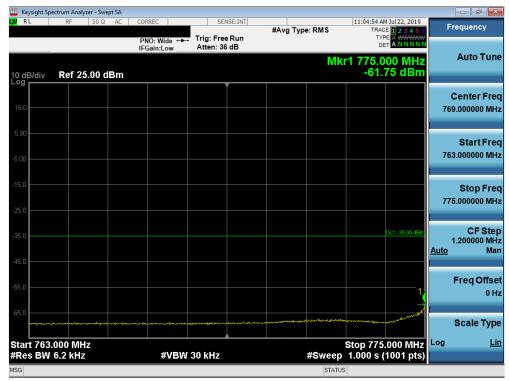
Plot 7-200. Upper Emission Mask Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyzer - S										
X/RL	RF 50	Ω AC	CORREC		SE:INT	#Avg Typ	e: RMS	TRAC	1 Jul 22, 2019 E 1 2 3 4 5 6	F	requency
10 dB/div	Ref 25.00	dBm	PNO: Wide IFGain:Low	Trig: Free Atten: 36			M	DE <b>kr1 776.9</b>	76 MHz 36 dBm		Auto Tune
15.0											Center Freq 7.000000 MHz
-5.00						aloutert Program	and a second and a second a s	den fanglengeneensensensensensensensensensensensense	DL1 -13.00 dBm	77:	Start Fred 3.000000 MH2
-15.0				and any any any any any	1					781	Stop Fred 1.000000 MH
-35.0		,	A Contraction of the second se							<u>Auto</u>	CF Step 800.000 kH Mar
	an a										Freq Offse 0 H
	7.000 MHz							Span 8	.000 MHz		Scale Type <u>Lir</u>
#Res BW	100 kHz		#VBW	300 kHz			Sweep	13.33 ms (	1001 pts)		
ISG							STAT	US			

Plot 7-201. Lower Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



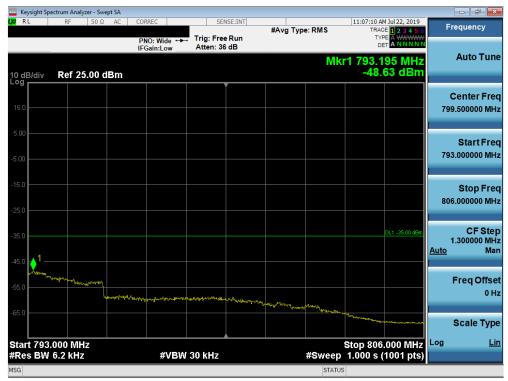
Plot 7-202. Lower Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	UND	Approved by: Quality Manager
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🔤 Keysight Spectrum Ana									_	
LXIRL RF	50 Ω AC	CORREC	SEN	SE:INT	#Avg Typ	e: RMS		4 Jul 22, 2019	Fr	equency
10 dB/div Ref 2	5.00 dBm	PNO: Wide 🖵 IFGain:Low	Trig: Free Atten: 36			Mk	r1 787.0	16 MHz 58 dBm		Auto Tune
15.0				,						Center Freq .000000 MHz
-5.00								DL1 -13.00 dBm	783	Start Freq 000000 MHz
-15.0			- La Ara	1				DET -13.00 dBm	791	Stop Freq .000000 MHz
-35.0					and and a second se	and and an of the state of the		And and a second se	<u>Auto</u>	CF Step 800.000 kHz Man
-55.0										Freq Offsel 0 Hz
-65.0 Center 787.000	MU-7						Snap 9	.000 MHz	Log	Scale Type Lin
#Res BW 100 kH		#VBW	300 kHz			Sweep_1	span 8 13.33 ms (	.000 191112		
MSG						STATU	_			

Plot 7-203. Upper Band Edge Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)



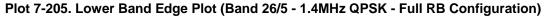
Plot 7-204. Upper Emission Mask Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

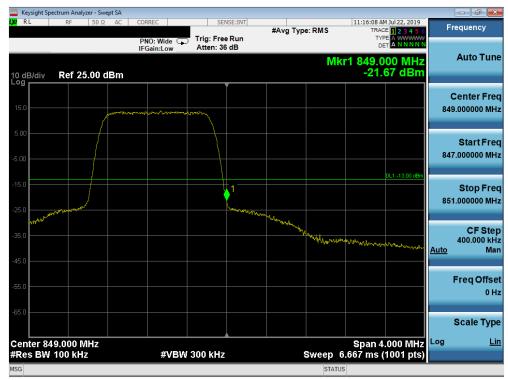
FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 100 of 077
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Band 26/5

RL RF 50 Ω AC	CORREC	SE	NSE:INT						
		Trig: Free		#Avg Type	e: RMS	TRAC	M Jul 22, 2019 DE <b>1 2 3 4 5 6</b> PE A WWWW	F	requency
0 dB/div Ref 25.00 dBm	PNO: Wide 🕞 IFGain:Low	Atten: 36	6 dB		Mkr	Di	00 MHz 23 dBm		Auto Tur
15.0				Jord Jane and a start for	gingly and so all	١			Center Fre 4.000000 Mi
5.00								82:	Start Fr 2.000000 M
25.0			(1				DL1 -13.00 dBm	82	Stop Fr 6.000000 M
35.0	und ge and generation	wormpolit Mused				- Contraction	AU VEL MANNAMENTE	<u>Auto</u>	CF St 400.000 k N
55.0									Freq Offs 0
enter 824.000 MHz						Span 4	.000 MHz	Log	Scale Ty <u>I</u>
Res BW 100 kHz	#VBW	300 kHz			Sweep 6.	.667 ms (	(1001 pts)		





Plot 7-206. Upper Band Edge Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager				
Test Report S/N:	Test Dates:	EUT Type:		Dege 107 of 077				
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Keysight Spectrum Analyzer - Swept SA									
X/RL RF 50Ω AC	CORREC		SE:INT	#Avg Typ	e: RMS	TRAC	1 Jul 22, 2019 E 1 2 3 4 5 6	F	requency
10 dB/div Ref 25.00 dBm	PNO: Wide 🖵 IFGain:Low	Trig: Free Atten: 36			Mki	<sup>DE</sup>	00 MHz 3 dBm		Auto Tune
15.0			and the second	an and the state of the state o	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and and the state of the state	A manager and the states		Center Freq 4.000000 MHz
-5.00								82:	Start Freq 2.000000 MHz
-15.0		, s	1				DL1 -13.00 dBm	820	Stop Free 5.000000 MHz
-35.0	to a construction of the second s	and N Vanadold						<u>Auto</u>	CF Step 400.000 kHz Mar
-55.0									Freq Offse 0 Ha
						Onon 4		Log	Scale Type <u>Lir</u>
Center 824.000 MHz #Res BW 100 kHz	#VBW	300 kHz			Sweep 6	span 4. (1667 ms	000 1911 12	209	<u></u>
MSG					STATUS				

Plot 7-207. Lower Band Edge Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)



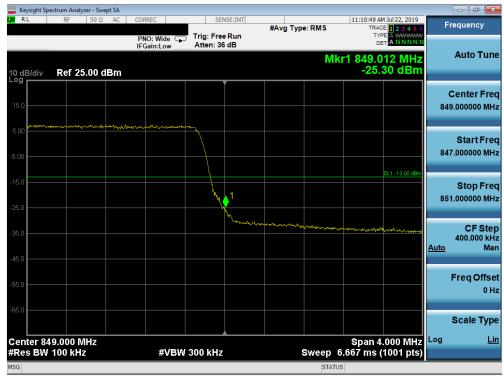
Plot 7-208. Upper Band Edge Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 100 of 077	
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Keysight Spectrum Analyzer - Swept SA				
X/RL RF 50Ω AC		#Avg Typ	e: RMS TRAC	4 Jul 22, 2019 E 1 2 3 4 5 6 E A WWWWW
10 dB/div <b>Ref 25.00 dBm</b>	PNO: Wide Trig: Free IFGain:Low Atten: 36		Mkr1 823.9	
15.0		not an and a second	mannan	Center Fre 824.000000 Mi
-5.00			La norda de la cola A Malena en activida.	Start Fre 822.000000 M
-15.0		1		DL1-1300 dBm Stop Fre 826.000000 MH
-35.0	man and a second and			CF Ste 400.000 ki <u>Auto</u> Ma
-45.0				Freq Offs 0 H
-65.0 Center 824.000 MHz			Snap 4	Scale Typ
#Res BW 100 kHz	#VBW 300 kHz		Sweep 6.667 ms (	1001 pts)
ISG			STATUS	

Plot 7-209. Lower Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-210. Upper Band Edge Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager				
Test Report S/N:	Test Dates:	EUT Type:		Dage 120 of 277				
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Keysight Spectrum A										_	
XI RL RF	50 Ω		REC		NSE:INT	#Avg Ty	e: RMS	TRAC	M Jul 22, 2019 E 1 2 3 4 5 6 E A WWWW	F	requency
10 dB/div Ref	25.00 dB	IFO	Ю: Wide ⊂ Gain:Low	Trig: Free Atten: 36			MI	or kr1 824.0			Auto Tune
15.0											Center Fred 4.000000 MH:
-5.00						h-aperty-toordange-at	trleftrationservices	and many of the state of the st	A. M. C.	82	Start Free 0.000000 MH
-15.0									DL1 -13.00 dBm	82	Stop Free 3.000000 MH
-35.0	la the same the same	Brogholycinger	All freezowakterson of the	www.www.www.	<u>,</u>					Auto	CF Ste 800.000 kH Ma
-55.0											Freq Offse 0 H
-65.0 Center 824.000	0 MHz							Span 8	.000 MHz	Log	Scale Type <u>Lii</u>
#Res BW 100 I			#VBV	V 300 kHz			Sweep	13.33 ms (	1001 pts)		
MSG							STAT	US			

Plot 7-211. Lower Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-212. Upper Band Edge Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dage 120 of 277	
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	trum Analyzer - Swej										
L <mark>XI</mark> RL	RF 50 Ω	AC	CORREC		ISE:INT	#Avg Typ	e: RMS	TRAC	Aug 09, 2019	F	requency
10 dB/div	Ref 25.00 d	NFE Bm	PNO: Wide IFGain:Low	Trig: Free Atten: 36			MI	DE <b>(r1 824.0</b>	00 MHz 71 dBm		Auto Tune
15.0											Center Freq 4.000000 MHz
-5.00								o the contraction of the contrac		81	Start Freq 8.000000 MHz
-15.0					1				DL1 -13.00 dBm	83	Stop Freq 0.000000 MHz
-35.0		~~~~~	~~~~~	mm						<u>Auto</u>	CF Step 1.200000 MH Mar
-55.0											Freq Offse 0 H:
-65.0 Center 824	.000 MHz							Span 1	2.00 MHz	Log	Scale Type <u>Lir</u>
#Res BW 1			#VBW	i 470 kHz			Sweep	1.000 ms (	1001 pts)		
MSG							STATU	JS			

Plot 7-213. Lower Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)



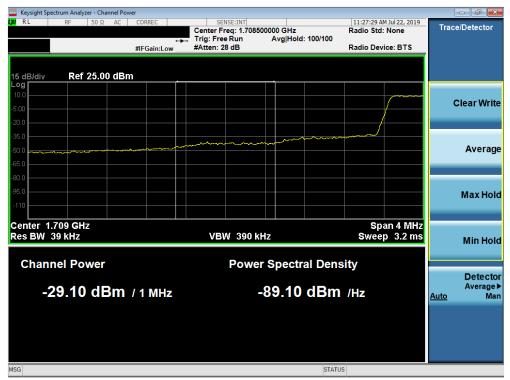
Plot 7-214. Upper Band Edge Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
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Plot 7-215. Lower Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)



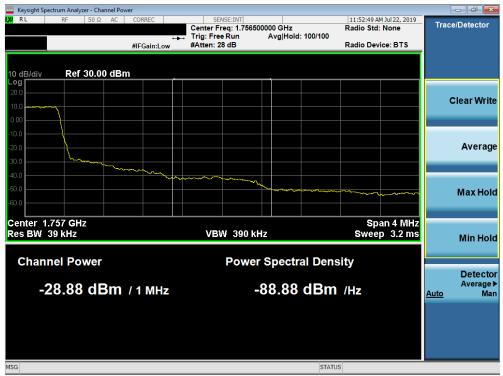
Plot 7-216. Lower Extended Band Edge Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyze												
X/RL	RF	50 Ω	AC	CORRE			ENSE:INT	#Avg Ty	pe: RMS	TR	AM Jul 22, 2019 ACE 1 2 3 4 5 6 YPE A WWWWW	F	requency
				PNO: IFGai	Wide ⊂ n:Low	Trig: Fr Atten: 3				1			
10 dB/div	Ref 25.	00 d	lBm						Mk	r1 1.755 -32	060 GHz .11 dBm		Auto Tune
- <sup>og</sup>							Ĭ						Center Free
15.0												1.7	55000000 GH
5.00		f	$\sim \sim \sim$	~~~~~	~ <u>~</u> ~~~,	m							
												1.7	Start Fre 3000000 GH
-5.00											DL1 -13.00 dBm		
-15.0		1									DET -13.00 GBM		Stop Fre
-25.0							<b>↓</b> ,					1.7	57000000 GH
	m					1							CF Ste
<sup>.35.0</sup>							- marken	hing	A-0			Auto	400.000 kH Ma
-45.0										www.	mm		
-55.0											<u>کې</u>		Freq Offse
													0 H
65.0													Scale Typ
Center 1.7	755000 G	Hz								Span	4.000 MHz	Log	Li
≉Res BW					#VBV	V 56 kHz			Sweep		(1001 pts)		
ISG									STA	TUS			

Plot 7-217. Upper Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)



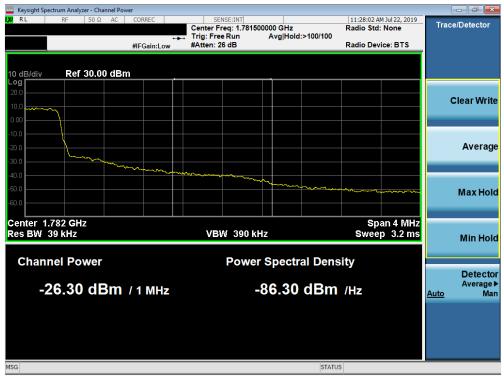
Plot 7-218. Upper Extended Band Edge Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SUNG	Approved by: Quality Manager	
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	ectrum Analyze		t SA										
X/RL	RF	50 Ω	AC	CORREC			SENSE:INT	#Avg '	Type: RMS	TR	AM Jul 22, 2019 ACE 1 2 3 4 5 6	F	requency
				PNO: IFGain	Wide 🕞 :Low	Trig: F Atten:	ree Run 36 dB						
									Mk	r1 1.780	096 GHz .23 dBm		Auto Tune
10 dB/div Log	Ref 25.	00 dE	3m				<b>.</b>			-30	.23 aBm		
													Center Free
15.0												1.78	30000000 GH:
5.00			· Martin		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	MAN .							
		ſ											Start Free
-5.00												1.7	78000000 GH:
-15.0											DL1 -13.00 dBm		
												1 78	Stop Free 3200000 GH
-25.0		$\left  \right $					1-						
-35.0	www						my	m					CF Step
-35.0								www	ma	m www.		Auto	400.000 kH Mai
-45.0										$\sim$	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
													Freq Offse
-55.0													0 H:
-65.0													
													Scale Type
	780000 G	Hz								Span	4.000 MHz	Log	<u>Lir</u>
#Res BW	15 kHz				#VBV	V 51 kH:	z		Sweep	6.667 ms	(1001 pts)		
ISG									STA	TUS			

Plot 7-219. Upper Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)



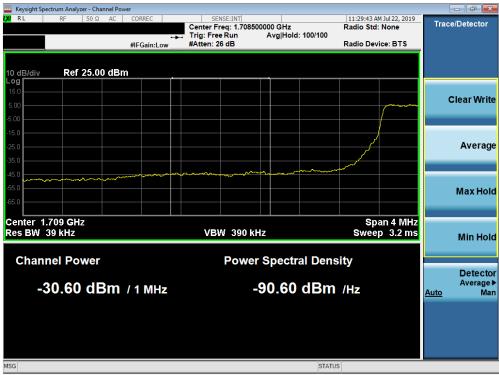
Plot 7-220. Upper Extended Band Edge Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analy												
U RL	RF	50 Ω	AC	CORREC				#Avg Ty	pe: RMS	TRA	M Jul 22, 2019 CE 1 2 3 4 5 6 PE A WWWW	F	requency
0 dB/div	Ref 2	5.00 di	Bm	IFGain	Vide 🖵 Low	Atten: 36			Mki	□ r1 1.709 9	ET A N N N N N		Auto Tun
15.0													Center Fre 10000000 GH
5.00								er getter and	∿*\$&~~,~~,3g85~M	yan fill and the second se		1.70	Start Fre
25.0							1				DL1 -13.00 dBm	1.7	Stop Fre
35.0	p. Deta Charles	o Advert	× Norther	-	Mr m	- Marana A						<u>Auto</u>	CF Ste 400.000 kl M
i5.0													Freq Offs 0
enter 1.	710000	GHz								Span 4	.000 MHz	Log	Scale Tyj <u>L</u>
Res BW					#VBW	130 kHz			Sweep	6.667 ms	(1001 pts)		
SG									STA				

Plot 7-221. Lower Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-222. Lower Extended Band Edge Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analy															
RL	RF	50 Ω	AC	CORRI		• •	Trig	SENS		#Avg Ty	pe: RMS		TRA TY	M Jul 22, 2019 CE 1 2 3 4 5 6 PE A WWWW	F	requency
					in:Lov			n: 36 d					-			A
0 dB/div	Ref 2	5.00 d	Bm								Mk	<b>(r1</b>	1.755 ( -25.	004 GHz .04 dBm		Auto Tun
								T								Center Fre
5.0															1.7	55000000 GI
.00 <b>Andra</b>	etquar manage		Mr. Jank	and the second	~~~~	m.	pression									
								۱ I							47	Start Fre 53000000 GI
5.00															1.73	53000000 GI
5.0														DL1 -13.00 dBm		Stop Fr
								٦ <u>.</u>	1						1.7	57000000 G
5.0								ľ								
5.0									Ing hours							CF Ste 400.000 k
5.0										and who was	mont	w	M		<u>Auto</u>	м
.0.0													- Marthan	y many with		<b>E</b>
5.0																Freq Offs 0
5.0																
																Scale Ty
enter 1.	755000	GHz											Span 4	1.000 MHz	Log	L
Res BW					#V	/BW	130 k	Hz			Sweep	6.	.667 ms	(1001 pts)		

Plot 7-223. Upper Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)



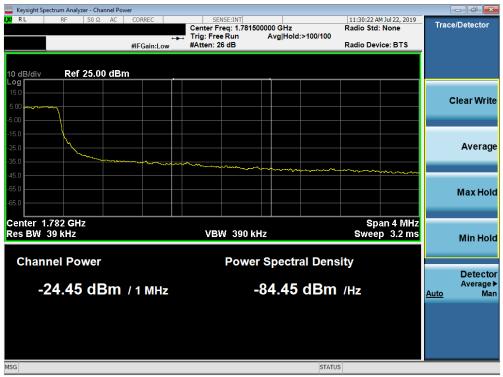
Plot 7-224. Upper Extended Band Edge Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager
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	ectrum Analy		SA										
X/RL	RF	50 Ω	AC	CORREC			ENSE:INT	#Avg Typ	e: RMS	TRAC	M Jul 22, 2019 DE <b>1 2 3 4 5 6</b>	F	requency
				PNO: W IFGain:L		Trig: Fr Atten:				TY			
				. Guine					Mkr	1 1.780 (	00 GHz		Auto Tune
10 dB/div Log	Ref 2	5.00 dB	sm							-25.	51 dBm		
-0g													Center Freq
15.0													80000000 GHz
5.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	᠕᠕᠕᠕᠕	and the second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mm							Start Freq
-5.00												1.77	78000000 GHz
											DL1 -13.00 dBm		
-15.0						[							Stop Freq
							1					1.78	32000000 GHz
-25.0							No.						
-35.0							man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2 00	1 marson			CF Step 400.000 kHz
									- control	mann	+ Ummm	<u>Auto</u>	400.000 KHZ Man
-45.0													
-55.0													Freq Offset
-33.0													0 Hz
-65.0													
													Scale Type
Center 1.		GHz								Span 4	.000 MHz	Log	<u>Lin</u>
#Res BW	36 kHz			\$	¢VB₩	130 kH	z		Sweep	6.667 ms (	(1001 pts)		
ASG									STAT	US			

Plot 7-225. Upper Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)



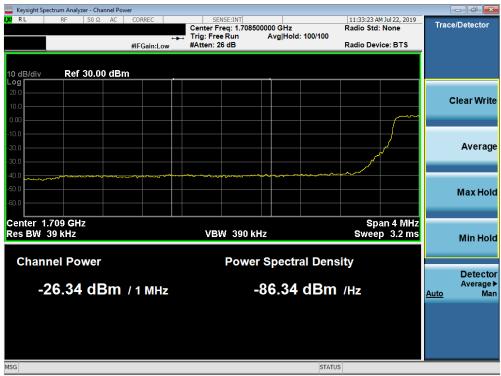
Plot 7-226. Upper Extended Band Edge Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ctrum Analy												
XI RL	RF	50 Ω	AC	CORREC		SEN	ISE:INT	#Avg Typ	e: RMS		M Jul 22, 2019 DE <b>1 2 3 4 5 6</b>	F	requency
				PNO: W IFGain:L	ide 😱 .ow	Trig: Free Atten: 36				TY			Auto Tune
10 dB/div	Ref 25	i.00 di	Bm							-29.	22 dBm		
						,							Center Freq
15.0													0000000 GHz
5.00									بر حاریا میں	A	mand the math of		
3.00							<u> </u>						Start Freq
-5.00												1.70	8000000 GHz
-15.0											DL1 -13.00 dBm		
							N					1.71	Stop Freq 2000000 GHz
-25.0							1'						
-35.0													CF Step
Mr. Maria	man m	, com and the second	ay and a second	- And and a start of the start	hanna	rv++-v/41**						<u>Auto</u>	400.000 kHz Mar
-45.0													
-55.0													Freq Offset
													0 Hz
-65.0													Scale Type
Center 1.7	740000	0.11-								- Chan		Log	Lin
#Res BW		GHZ		\$	≠vв₩	220 kHz			Sweep	span 4 6.667 ms (	.000 10112	209	
MSG									STATU				

Plot 7-227. Lower Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)



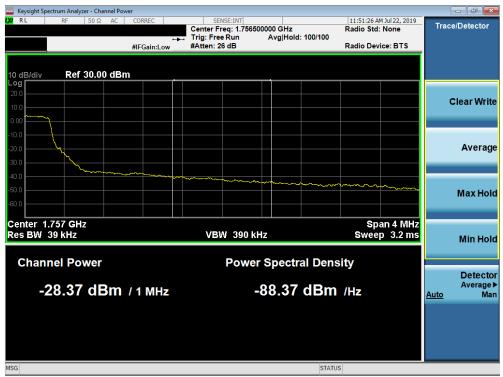
Plot 7-228. Lower Extended Band Edge Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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🚾 Keysight Spe			t SA											_	
LX/ RL	RF	50 Ω	AC	CORREC		Tria	SEN		#Avg T	ype: RMS		TRAC	M Jul 22, 2019 DE <b>1 2 3 4 5 6</b> PE A WWWW	F	requency
				PNO: IFGair	Wide ⊂ n:Low		en: 36					Di			Auto Tune
10 dB/div Log	Ref 2	5.00 dE	3m							Mk	<b>r1</b>	1.755 ( -27.	00 GHz 26 dBm		Auto Tune
															Center Fred
15.0														1.78	55000000 GH
5.00	(Lenning the second	man	Margar and	Maria Maria	Tegelyzena	my									O faunt Enro
-5.00														1.78	Start Free 3000000 GH
.3.00													DL1 -13.00 dBm		
-15.0							L A								Stop Free
-25.0							We	1						1.78	57000000 GH
-35.0								M. May armout							CF Ste
									**************************************	and all and a second	un	ᡊᢦᢧᢕᡃᢧᢉᡇᠬ᠕ᠰᠵ	manhar	<u>Auto</u>	400.000 kH Ma
-45.0															
-55.0															Freq Offse 0 H
-65.0															
															Scale Type
Center 1.7		GHz			#\/D\	11 220	kU-			Ouroen	0	Span 4	.000 MHz	Log	<u>Lii</u>
#Res BW	OZ KHZ				#VB	N 220	KHZ				ATUS	007 ms (	(1001 pts)		

Plot 7-229. Upper Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)



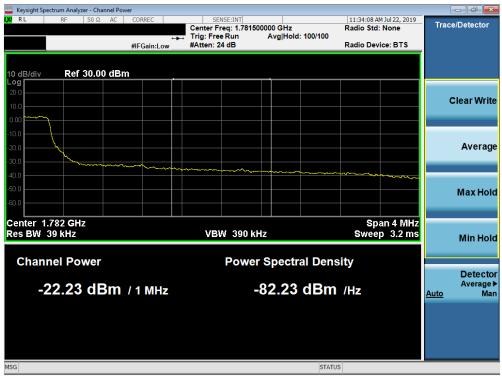
Plot 7-230. Upper Extended Band Edge Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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🔤 Keysight Spe			: SA									_	
X/RL	RF	50 Ω	AC	CORREC				#Avg Typ	e: RMS	TRAC	M Jul 22, 2019 DE 1 2 3 4 5 6 DE A WWWWW	F	requency
				PNO: W IFGain:L	ide 🖵 .ow	Atten: 36				Di			A
10 dB/div	Ref 25	i.00 dE	3m						Mkr	1 1.780 0 -26.	00 GHz 99 dBm		Auto Tune
													Center Freq
15.0												1.78	30000000 GHz
5.00	ana ana ang pang pang	Aarmon	anente de la constante de la const	2 Aurolanda	and the state of the	under 1							Start Fred
-5.00												1.77	78000000 GHz
-15.0											DL1 -13.00 dBm		
-15.0						L <sub>A</sub>	1					1.78	Stop Free 32000000 GH2
-25.0							-	manana					
-35.0								an a	www.ww		a constant and		CF Step 400.000 kH
-45.0												<u>Auto</u>	Mar
0													Freq Offse
-55.0													0 Ha
-65.0													Scale Type
Center 1.7	780000	GH7								Snan 4	.000 MHz	Log	Lin
#Res BW		GHZ		#	≠vвw	220 kHz			Sweep	6.667 ms (	(1001 pts)		
1SG									STAT	JS			

Plot 7-231. Upper Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)



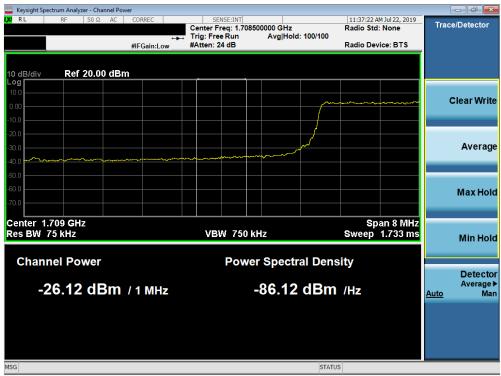
Plot 7-232. Upper Extended Band Edge Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spe													
KI RL	RF	50 Ω	AC	CORREC			NSE:INT	#Avg Typ	e: RMS	TRA	M Jul 22, 2019 CE <b>1 2 3 4 5 6</b>	F	requency
				PNO: IFGair	Wide 🖵 n:Low	Trig: Fre Atten: 30				TY D	PE A WWWWW ET A N N N N N		
									Mkr	1 1.710	000 GHz		Auto Tune
l0 dB/div	Ref 25	5.00 di	Зm							-30.	01 dBm		
							Ī						Center Fred
15.0												1.71	0000000 GHz
5.00													
5.00							- <i>(</i>	يويون مريون ويركر ويركر المريك	rel frankrei ver	and and the state of the state			Start Freq
5.00												1.70	6000000 GHz
											DL1 -13.00 dBm		
15.0													Stop Free
25.0							1					1.71	4000000 GH2
							1º						05.04
35.0	wanter	men Marine		-10.00 <sup>-100</sup> 00000	and the ball of	and a part of the second							CF Step 800.000 kHz
45.0												<u>Auto</u>	Mar
+3.0													
55.0													Freq Offset 0 Hz
													5112
65.0													Scale Type
												Log	
enter 1. Res BW					#VBIA	430 kHz			Sween	Span 8	8.000 MHz (1001 pts)	Log	Lin
SG	TZV KIT				# <b>V</b> D V V	-100 KHZ			STAT		(Toor pla)		

Plot 7-233. Lower Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)



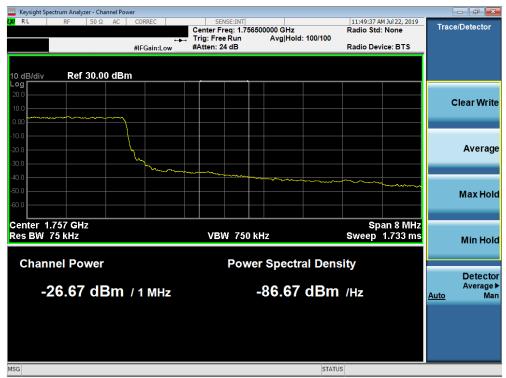
Plot 7-234. Lower Extended Band Edge Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spe						1		T		I			
<mark>0</mark> RL	RF	50 Ω	AC	CORREC		Trig: Free		#Avg Typ	e: RMS	TRAC TY	M Jul 22, 2019 CE 1 2 3 4 5 6 PE A WWWWWW FT A N N N N N	F	requency
0 dB/div	Ref 25	5.00 dB	3m	IFGain:L	.ow	Atten: 36	dB		Mkr	1 1.755 (	016 GHz 64 dBm		Auto Tun
15.0													Center Fre
5.00	uentellen-enna	ayimesedatire	mat (hern) (	Pristan Portang	2014-2014 10-10-10-10-10-10-10-10-10-10-10-10-10-1							1.75	Start Fre
25.0						N <sub>N</sub>	1				DL1 -13.00 dBm	1.78	Stop Fro 9000000 G
15.0							Mar Woodles	Pine And Call and Army	and a second descent	www.enewsensteinageneus	him yong ang ang ang ang ang ang ang ang ang a	<u>Auto</u>	CF Ste 800.000 k M
5.0													Freq Offs 0
5.0	755000-									Sport		Log	Scale Ty
enter 1.7 Res BW				#	¢vbw	430 kHz			Sweep	span a 13.33 ms	3.000 MHz (1001 pts)	-	
SG									STATI				_

Plot 7-235. Upper Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)



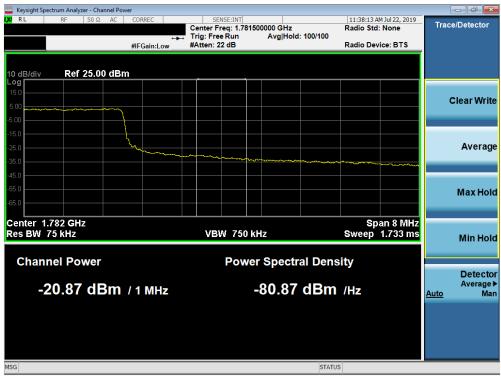
Plot 7-236. Upper Extended Band Edge Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	pectrum Anal												
RL	RF	<b>50</b> Ω	AC	CORREC	Vide 🖵			#Avg Typ	e:RMS	TRA	M Jul 22, 2019 CE 1 2 3 4 5 6 PE A WWWW ET A NNNN	F	requency
) dB/div	Ref 2	5.00 d	IBm	IFGain	Low	Atten: 36	dB		Mkr	1 1.780	016 GHz .02 dBm		Auto Tui
15.0													Center Fre
.00			*********	untragging un antra da	dag0226.00.091.454							1.77	<b>Start Fr</b> 76000000 G
5.0						- Viller	1				DL1 -13.00 dBm	1.78	Stop Fr 84000000 G
5.0							hoge da alla da angenera	der and think the same of	and the second sec	man and a start way and	an a	<u>Auto</u>	CF St 800.000 k M
5.0													Freq Offs 0
5.0	700000											Log	Scale Ty
	.780000 / 120 kH				#VRM	430 kHz			Sween	5pan 8	3.000 MHz (1001 pts)	LUg	<u>1</u>
1000 011	120 M	-			7 V C) V V	-100 MHZ			oweeh	13.33 1115	(roor pis)		

Plot 7-237. Upper Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)



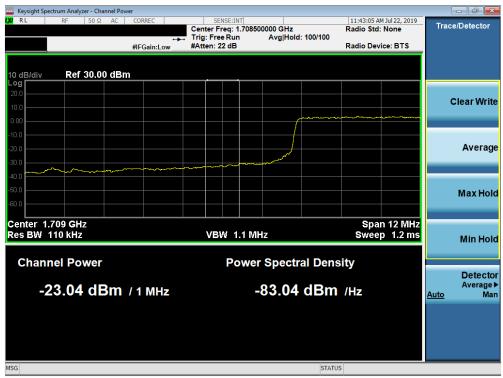
Plot 7-238. Upper Extended Band Edge Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analyz											_	
X/RL	RF	50 Ω	AC	CORREC			VSE:INT	#Avg Typ	e: RMS	TRA	M Jul 22, 2019 DE 1 2 3 4 5 6	F	requency
10 dB/div	Ref 25	.00 dE	3m	PNO: W IFGain:	/ide 😱 Low	Trig: Free Atten: 36			Mkr	□ 1 1.710 (	000 GHz 24 dBm		Auto Tune
15.0													Center Fred 0000000 GH
-5.00									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		ajetteren "einen en flyet	1.70	Start Free 4000000 GH:
-15.0							1				DL1 -13.00 dBm	1.71	Stop Free 6000000 GH
-35.0			~~~~	<u> </u>	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						Auto	CF Stej 1.200000 MH Ma
55.0													Freq Offse 0 H
-65.0 Center 1.7	710000.0	GH7								Spap 1	2.00 MHz	Log	Scale Type <u>Lir</u>
#Res BW					#VBW	620 kHz			Sweep	1.000 ms	(1001 pts)		
MSG									STATU				

Plot 7-239. Lower Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)



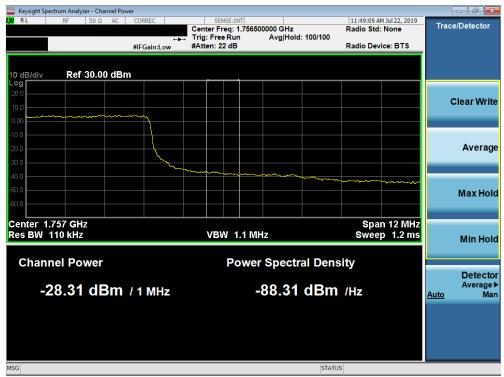
Plot 7-240. Lower Extended Band Edge Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Keysight Spe RL	ectrum Analy RF	/zer - Swep 50 Ω	AC AC	CORREC		SEI	SE:INT			11:49:02 /	AM Jul 22, 2019	_	
				PNO: V IFGain:	/ide 🖵 Low	Trig: Free Atten: 36		#Avg Ty	pe: RMS	T	CE 1 2 3 4 5 6 (PE A WWWWW A NNNNN	F	requency
I0 dB/div	Ref 2	5.00 di	Bm						Mkr	1 1.755 -30	000 GHz .25 dBm		Auto Tune
15.0													Center Free 5000000 GH
5.00			<u>~~∧∧,∧</u>		<u></u>							1.74	Start Fre 9000000 GH
25.0							·1				DL1 -13.00 dBm	1.76	Stop Fre
15.0							m				here and the	<u>Auto</u>	CF Ste 1.200000 MH Ma
5.0													Freq Offs 0 F
5.0	755000	<u></u>								- Snon (		Log	Scale Typ L
Center 1.7 Res BW					#VBW	620 kHz			Sweep	5pan ' 1.000 ms	12.00 MHz (1001 pts)	-	
ISG									STAT		( p.o/		-

Plot 7-241. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)



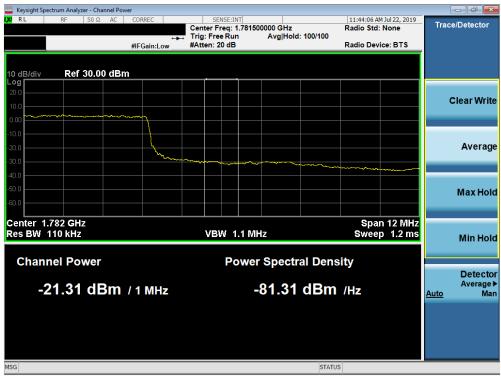
Plot 7-242. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	pectrum Ana												
RL	RF	50 Ω	AC	CORREC	/ide 😱	Trig: Fre		#Avg Typ	e: RMS	TRA	M Jul 22, 2019 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	F	requency
0 dB/div	Ref 2	5.00 d	Bm	IFGain:	Low	Atten: 36	dB		Mkr	1 1.780 2	252 GHz 99 dBm		Auto Tur
5.0													Center Fre
	<u> </u>			an	<u>~~~</u>							1.77	Start Fr 74000000 G
5.0							<b>▲</b> 1				DL1 -13.00 dBm	1.78	Stop Fr 36000000 G
i.0							har			s.		Auto	CF St 1.200000 M N
5.0													Freq Offs 0
.0													Scale Ty
	.780000				(1)	600 L.H.			-		2.00 191112	Log	L
Res BM	/ 180 kH	Z			#VBW	620 kHz			Sweep	1.000 ms	(1001 pts)		

Plot 7-243. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)



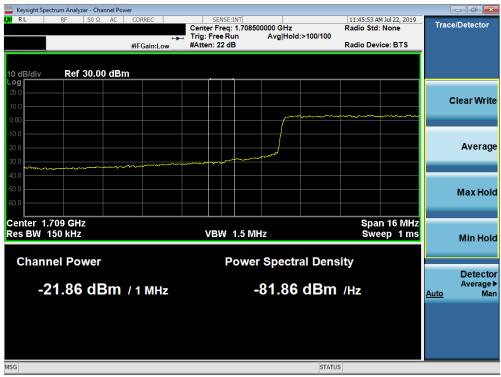
Plot 7-244. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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- 6									m Analyzer - Sv		
Frequency	5:48 AM Jul 22, 2019 TRACE 1 2 3 4 5 6 TYPE A WWWW	e: RMS	#Avg Typ	SE:INT			CORREC	Ω AC	RF 50 \$	_	RL
A 4 . <b>-</b>	DET A NNNNN				Trig: Free Atten: 36	/ide 🖵 Low	PNO: W IFGain:				
Auto Tur	09 920 GHz 24.90 dBm	Mkr1 <sup>·</sup>						dBm	ef 25.00	3/div R	0 dB
Center Fre											. <sup>0</sup> 9
1.710000000 GH											15.0
	~a_aaaa_~aaaaaaaaaaaaaaaaaaaaaaaaaaaaa		and - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1								5.00
Start Fre 1.702000000 GH											
	DL1 -13.00 dBm										5.00
Stop Fre	0E1 -13.00 0Bill										15.0
1.718000000 GH				1 							25.0
CF Ste					and a second	$\sim$	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	montow	ᡔᡄᢧᡢ᠇᠋ᡔᢛ᠕ᢢ᠆ᢦ	
1.600000 Mł Auto Ma											35.0
<u>Auto</u> Ma											45.0
Freq Offs											55.0 -
01											
Scale Typ											65.0
Log L	an 46.00 MHz								000 00-	or 4 740	
	an 16.00 MHz ms (1001 pts)				820 kHz				000 GHz	ter 1.710 s BW 240	

Plot 7-245. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)



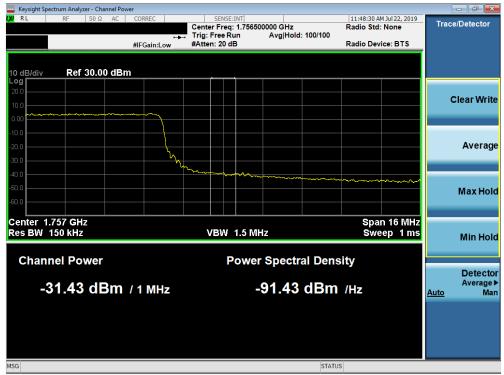
Plot 7-246. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	UNG	Approved by: Quality Manager
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Keysight Spe												_	
X/RL	RF	50 Ω	AC	CORREC			SE:INT	#Avg Typ	e: RMS	TRA	M Jul 22, 2019 CE <b>1 2 3 4 5 6</b>	F	requency
				PNO: W IFGain:L	ide 🖵 .ow	Trig: Free Atten: 36				TY D			
									Mkr	1 1.755 (	000 GHz		Auto Tune
10 dB/div _og	Ref 2	5.00 dl	Bm						_	-33.	13 dBm		
٦							Í						Center Free
15.0											<u> </u>	1.75	5000000 GH
				0.04.0000									
5.00													Start Free
-5.00												1.74	7000000 GH
											DL1 -13.00 dBm		
-15.0													Stop Free
-25.0						١.						1.76	3000000 GH
-25.0						wy	1						
-35.0						×.	howwww						CF Stej 1.600000 MH
								han and the second	mann	mmm	manhorm	<u>Auto</u>	Mai
-45.0													
-55.0													Freq Offse
													0 H
-65.0													
													Scale Type
Center 1.7										Span 1	6.00 MHz	Log	Li
#Res BW	240 kH	z		;	#VBW	820 kHz			Sweep	1.000 ms	(1001 pts)		
ISG									STAT	US			

Plot 7-247. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



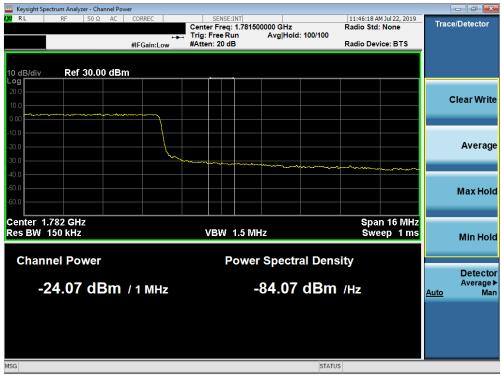
Plot 7-248. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	pectrum Anal												
RL	RF	50 Ω	AC	PNO: V	/ide 🖵			#Avg Ty	pe: RMS	TR	AM Jul 22, 2019 ACE 1 2 3 4 5 6 YPE A WWWWW DET A NNNNN	Fi	requency
dB/div	Ref 2	5.00 d	lBm	IFGall:	Low	Attent			Mkr	1 1.780 -27	096 GHz .69 dBm		Auto Tui
5.0													Center Fre
.00	<u>iomesAs</u>	<u>n/hy</u>	******	<u>^</u>	AC******E3_after.eA							1.77	Start Fr 2000000 G
5.0							1				DL1 -13.00 dBm	1.78	Stop Fr 8000000 G
5.0							the way to an	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	A. A. BANGER	and the stands	mm	<u>Auto</u>	CF St 1.600000 M N
5.0													Freq Offs 0
5.0	.780000	04								Spop	16 00 BALL-		Scale Ty
	.780000 / 240 kH				#VBW	820 kHz			Sween	1.000 ms	16.00 MHz (1001 pts)		-
									STAT		(1001 pt3)		

Plot 7-249. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-250. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Band 25/2

Keysight Spectrum Analyzer - S							-			
<mark>0 RL RF 50</mark>	Ω AC	CORREC			#Avg Typ	e: RMS		M Aug 09, 2019 CE 1 2 3 4 5 6 PE A WWWW	F	requency
10 dB/div Ref 25.00		IFGain:Low	Atten: 36	dB		Mkr	1 1.850 (	000 GHz 43 dBm		Auto Tur
15.0										Center Fre
5.00					Aco Maria Aco and Aco	<del>~~~~</del>		DL1 -13.00 dBm	1.84	Start Fr 8000000 G
25.0			(	1					1.85	Stop Fr 2000000 G
35.0	www	mann	mon					mm	<u>Auto</u>	CF St 400.000 k N
45.0 55.0										Freq Offs 0
65.0 Center 1.850000 GH	7						Span 4	.000 MHz	Log	Scale Ty
Res BW 15 kHz		#VBW	51 kHz			Sweep	6.667 ms	(1001 pts)		
SG						STAT	US			

Plot 7-251. Lower Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-252. Lower Extended Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U	HELMELATINE LATINATION. INC.	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager				
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www.www.com.com.com.com.com.com.com.com.com.com								- 6 ×
LXU RF 50Ω AC	CORREC S	ENSE:INT	#Avg Type	e: RMS		M Aug 09, 2019	F	requency
NFE	PNO: Wide Trig: Fr IFGain:Low Atten:				TYP			
	I Guilleon			Mkr1	1.910 0	64 GHz		Auto Tune
10 dB/div Ref 25.00 dBm					-32.	62 dBm		
Log		Ĭ.						Center Freq
15.0								0000000 GHz
5.00 Ann	man							Start Freq
-5.00							1.90	8000000 GHz
-0.00								
-15.0						DL1 -13.00 dBm		Stop Freq
							1.91	2000000 GHz
-25.0		<b>1</b>						
-35.0		Lung						CF Step
-35.0		- mult	m	~			Auto	400.000 kHz Man
-45.0				- marker	www.my~		Auto	Wall
						ىر		Freq Offset
-55.0								0 Hz
-65.0								
-03.0								Scale Type
0					0			Lin
Center 1.910000 GHz #Res BW 15 kHz	#VBW 51 kHz		5	Sweep_6	Span 4 .667 ms (	.000 MHz 1001 pts)	LUg	<u></u>
MSG				STATUS		,		

Plot 7-253. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)



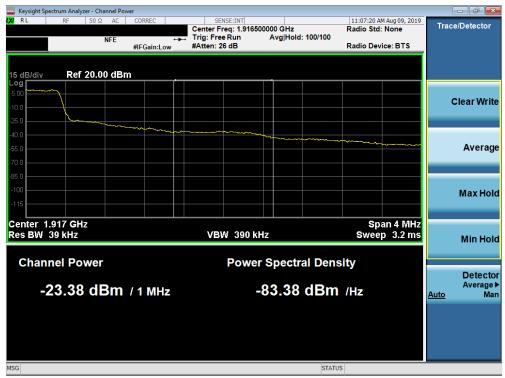
Plot 7-254. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analyz												
X/RL	RF	50 Ω	AC	CORREC			NSE:INT	#Avg Ty	e: RMS	TRA	AM Aug 09, 2019 CE 1 2 3 4 5 6	F	requency
		NF	E	PNO: V IFGain:	Vide 🖵 Low	Trig: Fre Atten: 3				T) [			
									Mkr	1 1.915	060 GHz		Auto Tune
10 dB/div Log	Ref 25	.00 dB	m							-28	.15 dBm		
							Ī						Center Fred
15.0												1.91	5000000 GH2
5.00				A (7)									
5.00		Ĩ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man 1							Start Fred
-5.00												1.91	3000000 GH
											DL1 -13.00 dBm		
-15.0													Stop Free
-25.0						\ 	<mark></mark> 1					1.91	7000000 GH:
	mm						mon man						CE Otor
-35.0	/							www.	N				CF Step 400.000 kH
-45.0									- March	$\sim \sim $	- M	<u>Auto</u>	Mar
43.0											<u>م</u>		
-55.0													Freq Offset 0 Hz
													311
65.0													Scale Type
												1.00	
Center 1.9 #Res BW		GHZ			#VRW	51 kHz			Sween		4.000 MHz (1001 pts)		Lir
ISG	13 112					JINIZ			SWEEP		(Toor pis)		

Plot 7-255. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)



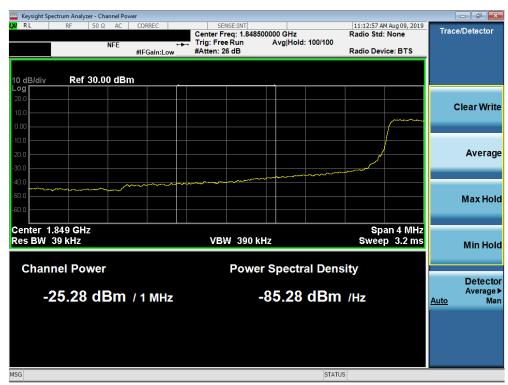
Plot 7-256. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analy	/zer - Swept SA	4									×
LX/RL	RF	50 Ω AC	C COR	REC	SEI	NSE:INT	#Avg Typ	e: RMS	TRAC	4 Aug 09, 2019	F	requency
		NFE	PN IFC	IO: Wide 🕞 Sain:Low	Trig: Free Atten: 36				DE			Auto Tune
10 dB/div Log	Ref 2	5.00 dBn	n					IVIKI	1 1.850 0 -25.0	28 dBm		
												Center Freq
15.0											1.85	50000000 GHz
5.00							and the second		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Start Freq
-5.00											1.84	8000000 GHz
-15.0						]				DL1 -13.00 dBm		Stop Freq
						1					1.85	52000000 GHz
-25.0												OE Oton
-35.0		www.ww	ma	- marine and the second							Auto	CF Step 400.000 kHz Man
-45.0											Auto	Wan
-55.0												Freq Offset
-65.0												0 Hz
-03.0												Scale Type
Center 1.	850000	GHz							Span 4	.000 MHz	Log	Lin
#Res BW				#VBW	/ 130 kHz			Sweep	6.667 ms (	1001 pts)		
MSG								STAT	JS			

Plot 7-257. Lower Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)



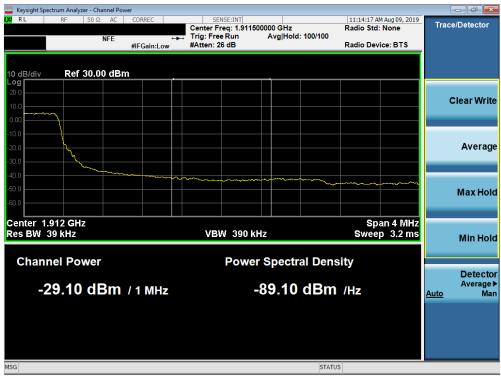
Plot 7-258. Lower Extended Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager					
Test Report S/N:	Test Dates:	EUT Type:	Dama 452 at 077					
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NFE       PNO: Wide miles       Trig: Free Run Atten: 36 dB       Mkr1 1.910 000 GHz       Generation of the second s		rum Analyzer - Sv										
Auto Tune Auto Tune Mkr1 1.910 000 GHz -24,933 dBm Auto Tune Auto Tune Auto Tune Auto Tune Auto Tune Auto Tune Auto Tune Center Freq 1.91000000 GHz Start Freq 1.91000000 GHz Center Step Auto Man Freq Offset OHZ Center I.91000 GHz Start Freq 1.91200000 GHz Freq Offset OHZ Start Preq 1.91200000 GHz Start Freq 1.91200000 GHz CF Step CF Step Center 1.91000 GHz Start Freq 1.91200000 GHz CF Step Log Ling Start Freq 1.91200000 GHz CF Step Log Ling Center Start Freq 1.91200000 GHz CF Step Log Ling Start Freq 1.91200000 GHz Start Freq 1.9120000 GHz Start Freq 1.9120000 GHz Start Freq 1.9120000 GHz Start Freq 1.9120000 GHz Start Freq Start Freq 1.9120000 GHz Start Freq Start Freq St	LX/IRL	RF 50 \$	AC AC	CORREC			#Avg Typ	e: RMS	TRAC	E 1 2 3 4 5 6	F	requency
Mkr1 1.910 000 GHz       Auto Tune         0 dB/div       Ref 25.00 dBm       -24.933 dBm         150       -24.933 dBm       -24.933 dBm         150       -25.00 dBm       -25.00 dBm       -26.00 dBm         150       -21.1300000 GHz       Start Freq         150       -21.1300000 GHz       Stop Freq         150       -21.1300000 GHz       -21.1300000 GHz         150       -21.1300000 GHz       Stop Freq         191000000 GHz       -25.00       -21.1300000 GHz         150       -21.1300000 GHz       -21.1300000 GHz         150       -21.130000 GHz       -21.1300000 GHz         150       -21.130000 GHz       -21.130000 GHz         150       -21.130000 GHz       -21.130000 GHz         150       -21.130000 GHz       -21.1300000 GHz         150       -21.1300000 GHz       -21.1300000 GHz         150       -21.1300000 GHz       -2			NFE						TYI Di			
0.0 gB/div       Ref 25.00 dBm       -24.933 dBm         150       Center Freq         150       Start Freq         150       Description				I Guilleow				Mkr	1 1.910 0	00 GHz		Auto Tune
Center Freq 1.91000000 GHz 500 500 500 500 500 500 500 50	10 dB/div	Ref 25.00	dBm						-24.9	33 dBm		
15.0 5.00					)							Contor From
500       0	15.0											•
500       0												
5.00 5.00	5.00 0000000	ann an an ann an an an an an an an an an	wayne og a	Martin and a start of the start	mon							Start Erec
3000       0t1.1300 dBn         150       1         250       1         350       1 <td>5.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.90</td> <td>•</td>	5.00										1.90	•
150       1	-5.00											
25.0 25.0	-15.0									DL1 -13.00 dBm		Stop From
25.0 25.0					7	1					1.91	
350       350       350       400.000 kHz         450       400.000 kHz       400.000 kHz         550       400       400.000 kHz         550       500       500         650       500       500         650       500       500         650       500       500         650       500       500         650       500       500         650       500       500         650       500       500         650       500       500         650       500       500         650       500       500         650       500       500         650       500       500	-25.0				/							
400.000 HHz 400.000 HHz 400.000 HHz 400.000 HHz 400.000 HHz 400.000 HHz 400.000 HHz 650 650 650 650 650 650 650 650	05.0					March and						CF Step
450 450 450 450 450 450 450 450 450 450	-35.0					Www	hume.				Auto	
550       Image: Constraint of the second seco	-45.0							women was and the	my	mon	Auto	wan
550       Image: Constraint of the second seco												Erog Offect
Center 1.910000 GHz Res BW 36 kHz #VBW 130 kHz Sweep 6.667 ms (1001 pts)	-55.0											-
Center 1.910000 GHz Res BW 36 kHz #VBW 130 kHz Sweep 6.667 ms (1001 pts)												
Center 1.910000 GHz Res BW 36 kHz #VBW 130 kHz Sweep 6.667 ms (1001 pts)	-69.0											Scale Type
Res BW 36 kHz #VBW 130 kHz Sweep 6.667 ms (1001 pts)											1.00	
				#VRM	130 kHz			Sween			LUg	Lin
	MSG	O KHZ		#VDVV	150 KHZ			STATU		roor pts)		

Plot 7-259. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)



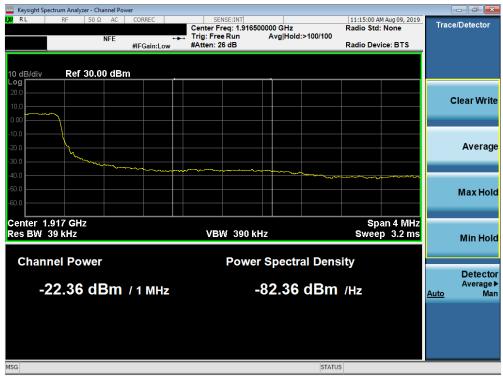
Plot 7-260. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	pectrum Ana												
RL	RF	50 Ω NF	AC E	CORREC	ide 🖵			#Avg Typ	e: RMS	TRAC	M Aug 09, 2019 DE 1 2 3 4 5 6 PE A WWWWWW ET A N N N N N	F	requency
) dB/div	Ref 2	5.00 dB	m	IFGain:L	_OW	Atten: 3	αB		Mkr	1 1.915 (			Auto Tur
5.0													Center Fr 15000000 G
	~~~~~	~ <sub>12</sub> ,		- Constant of Constant	പ്രംസംപ							1.91	Start Fr 13000000 G
5.0							1				DL1 -13.00 dBm	1.91	Stop Fr 17000000 G
5.0							Marad and way on	Mapl_ replaced	and	of March Marchen	Jan Marina San Barana S	<u>Auto</u>	CF St 400.000 F M
5.0													Freq Offs 0
5.0													Scale Ty
	.915000 V 36 kHz				≠vbw	130 kHz			Sweep	Span 4 6.667 ms (		Log	ļ
G									STAT			_	

Plot 7-261. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)



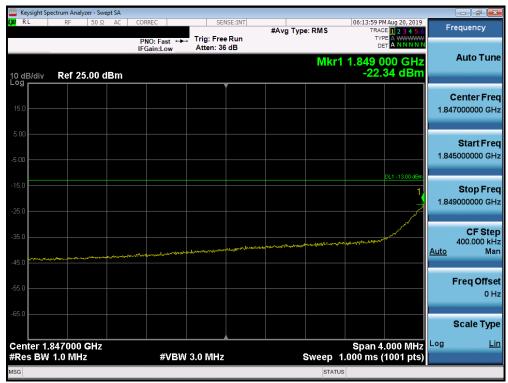
Plot 7-262. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUND	Approved by: Quality Manager
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	ectrum Analyzer										
LXI RL	RF 5	50Ω AC	CORREC		ISE:INT	#Avg Typ	e: RMS	TRAC	1 Aug 09, 2019 E 1 2 3 4 5 6	F	requency
		NFE	PNO: Wide 🖵 IFGain:Low	Trig: Free Atten: 36							
10 dB/div Log	Ref 25.0	0 dBm					Mkr1	1.850 0 -27.9	00 GHz 92 dBm		Auto Tune
209				) Y						(	Center Freq
15.0										1.85	0000000 GHz
5.00					man	and and a star of the starting of the starting of the start of the sta	har and the second states and the	an tan an a			
-5.00										1.84	Start Freq 8000000 GHz
-3.00									DL1 -13.00 dBm		
-15.0					1						Stop Freq
-25.0					1					1.85	2000000 GHz
			mar and a star and a star	Mary Mark Mark							CF Step
-35.0	and Maria Maria	an the way to	and the second							Auto	400.000 kHz Man
-45.0											
-55.0											Freq Offset
											0 Hz
-65.0											Scale Type
Center 1.3	850000 GI	Hz						Span 4	.000 MHz	Log	Lin
#Res BW			#VBW	220 kHz			Sweep 6	.667 ms (	1001 pts)		
MSG							STATUS				

Plot 7-263. Lower Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)



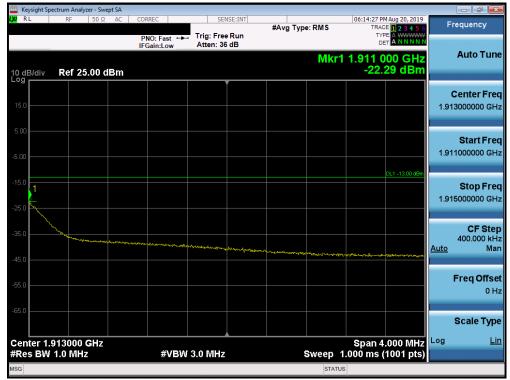
Plot 7-264. Lower Extended Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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🔤 Keysight Spectrum /		A									- • ×
LXIRL RF	50 Ω A	CORRE	C	SEN	ISE:INT	#Avg Typ	e: RMS		M Aug 09, 2019	F	requency
	NFE	E PNO IFGai	:Wide 😱 n:Low	Trig: Free Atten: 36				TYI Di			
10 dB/div Rel	f 25.00 dBr	m					Mkr1	1.910 ( -28.	00 GHz 55 dBm		Auto Tune
15.0											Center Freq 0000000 GHz
5.00 <b></b>										1.51	0000000 GHZ
										1.90	Start Freq 8000000 GHz
-5.00									DL1 -13.00 dBm		
-15.0				hu	1					1.91	Stop Freq 2000000 GHz
-25.0				1	,						CF Step
-35.0					- Andrew and	and the second second	Myrmatery	ward and the state of	monthermore	<u>Auto</u>	400.000 kHz Man
											Freq Offset
-55.0											0 Hz
-65.0											Scale Type
Center 1.9100									.000 MHz	Log	Lin
#Res BW 62 k	Hz		#VBW	220 kHz			Sweep 6	6.667 ms (	1001 pts)		
MSG							STATU	S			

Plot 7-265. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)



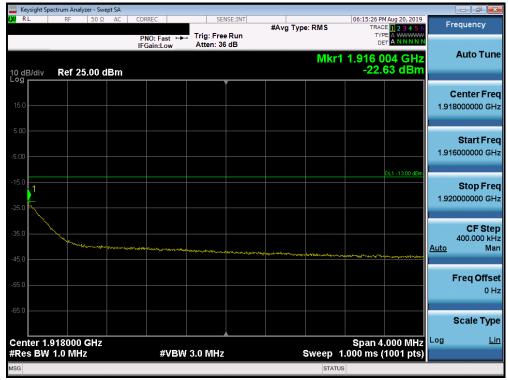
Plot 7-266. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

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	m Analyzer - Swe										
L <mark>XI</mark> RL	RF 50 Ω	AC	CORREC	SE	NSE:INT	#Avg Typ	e: RMS		M Aug 09, 2019	F	requency
		NFE	PNO: Wide IFGain:Low			•		TYI Di			Auto Tune
10 dB/div	lef 25.00 d	Bm					MKr	1 1.915 ( -27.	00 GHz 49 dBm		Auto Tune
					Ĭ						Center Freq
15.0										1.91	5000000 GHz
5.00	ten carrante to control de la control de	ymret ac		month							Start Freq
-5.00										1.91	3000000 GHz
-15.0									DL1 -13.00 dBm		Stop Freq
-25.0				J. J.	1					1.91	7000000 GHz
					a hanna						CF Step
-35.0							Manyanan	an way to be a set of the set of	hann	<u>Auto</u>	400.000 kHz Man
-45.0											Freq Offset
-55.0											0 Hz
-65.0											Scale Type
0								0		Log	Scale Type
Center 1.91 #Res BW 62			#V	BW 220 kHz			Sween	Span 4 6.667 ms (	.000 MHz	209	
MSG							STATU		(115)		

Plot 7-267. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-268. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMT867U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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	ectrum Analyzer - S										
LXI RL	RF 50	Ω AC	CORREC	SEI	ISE:INT	#Avg Typ	e: RMS		Aug 09, 2019	F	requency
		NFE	PNO: Wide IFGain:Low	Trig: Free Atten: 36				TYF De			A
10 dB/div Log	Ref 25.00	dBm					Mkr	1 1.850 0 -27.2	00 GHz 83 dBm		Auto Tune
				,							Center Freq
15.0										1.85	0000000 GHz
5.00					<i>f</i> <sup>m</sup>	1	Caral (19) Stature (1907, 1904	and the second	kpanal phalon and phalon		Start Freq
-5.00										1.84	6000000 GHz
-15.0									DL1 -13.00 dBm		Stop Freq
-25.0					1					1.85	4000000 GHz
	مەلەر يەتىرى بىرى بىرى بىرى بىرى بىرى بىرى بىرى	h - Server and a server and a	and a support the set	مەر بىر مەر بىر مەر بىر مەر مەر مەر مەر مەر مەر مەر مەر مەر مە	and the second se						CF Step
-35.0										Auto	800.000 kHz Man
-45.0											
-55.0											Freq Offset 0 Hz
-65.0											
											Scale Type
								Log	<u>Lin</u>		
#Res BW	120 KHZ		#VBW	430 kHz			sweep	13.33 ms (	1001 pts)		
MSG							STAT	US			

Plot 7-269. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-270. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

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