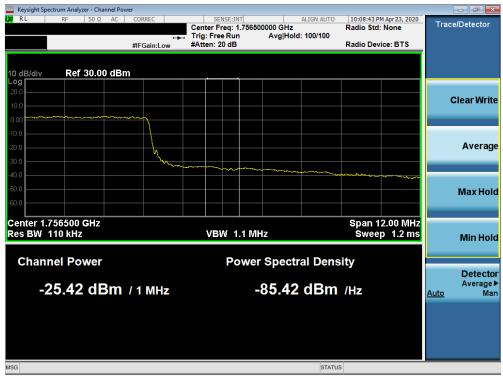


Keysight Spectrum Analyzer - Swept SA					
XIRL RF 50Ω AC	CORREC PNO: Wide Trig:	SENSE:INT	#Avg Type: RMS	TRACE TYPE	2 3 4 5 6 Frequency
10 dB/div Ref 25.00 dBm		n: 36 dB	Mk	₀ _{ET} 4 r1 1.755 00 -28.81	O GHZ Auto Tune
15.0					Center Fred 1.755000000 GH:
5.00				DI	Start Fred 1.749000000 GH:
25.0		h. 1			Stop Free 1.761000000 GH
45.0			·····	the second second	CF Step 1.200000 MH <u>Auto</u> Mar
55.0					Freq Offse 0 H
65.0					Scale Type
Center 1.755000 GHz #Res BW 240 kHz	#VBW 820 k	Hz	Sweep	Span 12.0 1.000 ms (10	00 MHz ^{Log Lir} 01 pts)
ISG				ATUS	

Plot 7-484. Upper Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)



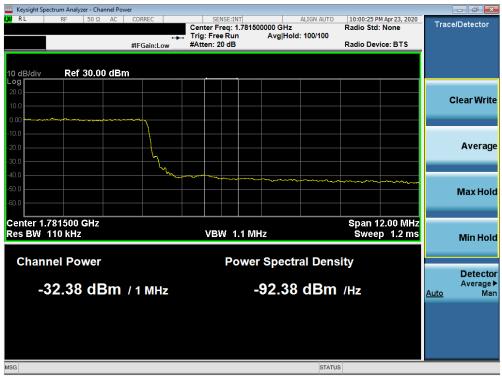
Plot 7-485. Upper Extended Band Edge Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					
CIRL RF 50Ω AC	PNO: Wide 🖵 Trig: Fre	ee Run	ALIGN AUTO	10:00:19 PM Apr 23, 2020 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N	Frequency
10 dB/div Ref 25.00 dBm	IFGain:Low Atten: 3	90 GB	Mkr1	1.780 000 GHz -36.92 dBm	Auto Tune
15.0					Center Fred 1.780000000 GHz
5.00				DL1 -13.00 dBm	Start Free 1.774000000 GH:
25.0					Stop Free 1.786000000 GH
45.0		1		man man	CF Stej 1.200000 MH <u>Auto</u> Ma
55.0					Freq Offse 0 H
65.0				Span 12.00 Min2	Scale Type
Res BW 180 kHz	#VBW 620 kH	z	Sweep 1.	000 ms (1001 pts)	
ISG			STATUS		

Plot 7-486. Upper Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)



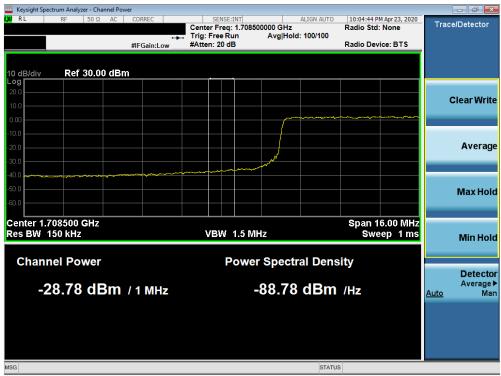
Plot 7-487. Upper Extended Band Edge Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyzer - Swept SA					- 6 ×
X/RL	RF 50 Ω AC	CORREC	SENSE:INT	ALIGN AUT #Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
10 dB/div Log	Ref 25.00 dBm	PNO: Wide 🖵 IFGain:Low	Trig: Free Run Atten: 36 dB	Mk	r1 1.709 936 GHz -32.03 dBm	Auto Tune
15.0						Center Freq 1.710000000 GHz
-5.00					DL1 -13 00 dBm	Start Freq 1.702000000 GHz
-15.0						Stop Fred 1.718000000 GHz
-35.0	hondream	and and a second se	an man that			CF Step 1.600000 MH: <u>Auto</u> Mar
55.0						Freq Offse 0 Hz
	710000 GHz				Span 16.00 MHz	Scale Type
#Res BW	240 kHz	#VBW	820 kHz		1.000 ms (1001 pts)	
ISG				SIA	ATUS	

Plot 7-488. Lower Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)



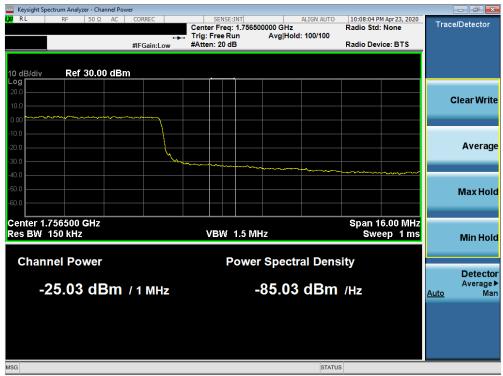
Plot 7-489. Lower Extended Band Edge Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENTREPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spectrum Analyzer									
XIRL RF 5	50 Ω AC	CORREC		ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Apr 23, 2020 E 1 2 3 4 5 6 E A WWWWW	Frequency
10 dB/div Ref 25.0	10 dBm	PNO: Wide 🕞 IFGain:Low	Atten: 36			Mkr1	1.755 0	16 GHz 40 dBm	Auto Tune
15.0									Center Freq 1.755000000 GHz
5.00	MIN47977777							DL1 -13.00 dBm	Start Freq 1.747000000 GHz
-15.0			- hor	1					Stop Freq 1.763000000 GHz
-35.0			ц.			m	Ayrong Whoyse	and a second	CF Step 1.600000 MH: <u>Auto</u> Mar
-55.0									Freq Offse 0 Hz
Center 1.755000 GI							Snan 1	6.00 MHz	Scale Type
#Res BW 240 kHz	12	#VBW	820 kHz			Sweep 1	.000 m <u>s (</u>	1001 pts)	
NSG						STATUS			

Plot 7-490. Upper Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



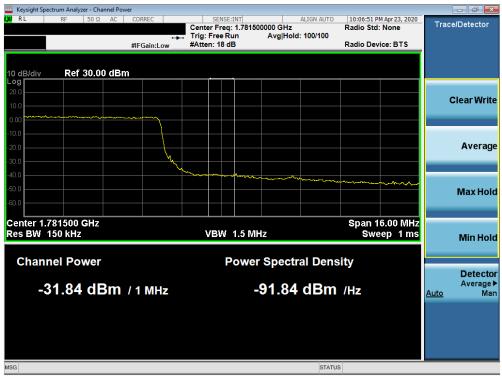
Plot 7-491. Upper Extended Band Edge Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	Analyzer - Swept SA								- ē ×
XIRL RF	50 Ω AC	CORREC			#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Apr 23, 2020 E 1 2 3 4 5 6 E A WWWWW	Frequency
10 dB/div Re	f 25.00 dBm	PNO: Wide IFGain:Low	Atten: 36			Mkr1	DE	16 GHz 64 dBm	Auto Tune
15.0									Center Freq 1.780000000 GHz
5.00 	And a second	MAC WARNING WARNE						DL1 -13.00 dBm	Start Free 1.772000000 GH:
-15.0									Stop Fred 1.788000000 GH;
-45.0			North	1 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	an way and the second sec	mar and the second second	ware recorded	mm	CF Stej 1.600000 MH <u>Auto</u> Ma
55.0									Freq Offse 0 H
65.0	000 GHz						Span 1	6.00 MHz	Scale Type
#Res BW 240	kHz	#VBW	820 kHz			Sweep 1	.000 ms (1001 pts)	
ISG						STATUS			

Plot 7-492. Upper Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-493. Upper Extended Band Edge Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)

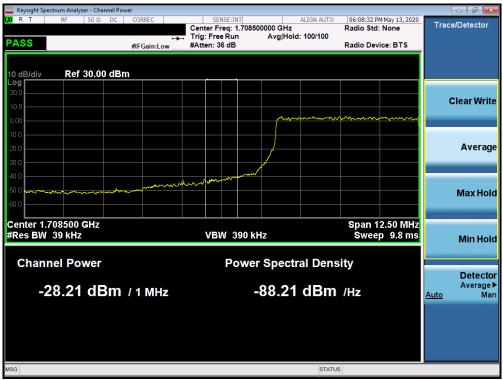
FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 276 of 494
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NR Band n66



Plot 7-494. Lower Band Edge Plot (n66 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-495. Lower Extended Band Edge Plot (n66 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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RT RF 50 Q DC		ig: Free Run Atten: 36 dB	ALIGN AUTO #Avg Type: RMS	06:09:26 PM May 13, 2020 TRACE 2 3 4 5 6 TYPE A WWWWW DET A P N N N N	Frequency
0 dB/div Ref 25.00 dBm			Mkr1 1	.780 037 5 GHz -27.76 dBm	Auto Tuno
15.0 Trace 1 Pass					Center Fre 1.780000000 GH
5.00	www.	vin			Start Fre 1.773750000 GH
25.0		1			Stop Fre 1.786250000 GH
15.0 wmm		- Andrew -	anna a		CF Ste 1.250000 MH <u>Auto</u> Ma
56,0				mmmm	Freq Offse 0 H
Senter 1.780000 GHz				Span 12.50 MHz	Scale Typ
Res BW 62 kHz	#VBW 22	0 kHz	Sweep 1	.400 ms (1001 pts)	

Plot 7-496. Upper Band Edge Plot (n66 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)



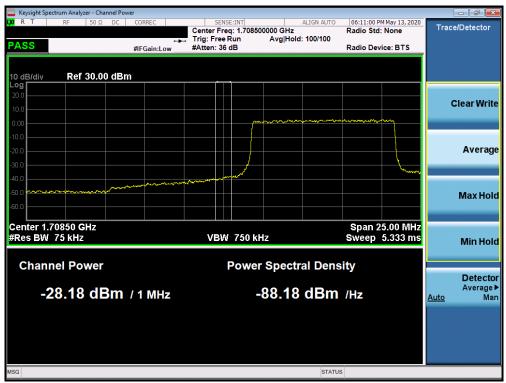
Plot 7-497. Upper Extended Band Edge Plot (n66 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA R T RF 50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO	06:10:45 PM May 13, 2020	- # ×
PASS	PNO: Wide ↔	Trig: Free Run Atten: 36 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A P N N N N	Frequency
10 dB/div Ref 25.00 dBm			Mkr1	1.709 925 GHz -28.70 dBm	Auto Tune
15.0 Trace 1 Pass					Center Free 1.710000000 GH
5.00			hannan	hand	Start Fre 1.697500000 GH
25.0					Stop Fre 1.722500000 GH
15.0	mannum	m		hunn	CF Ste 2.500000 MH Auto Ma
56.0					Freq Offso 0 H
65 0 Center 1.71000 GHz	#VBW 4:			Span 25.00 MHz	Scale Type Log <u>Li</u>
Res BW 120 kHz	#VBW 4.		Sweep	.000 ms (1001 pts)	

Plot 7-498. Lower Band Edge Plot (n66 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)



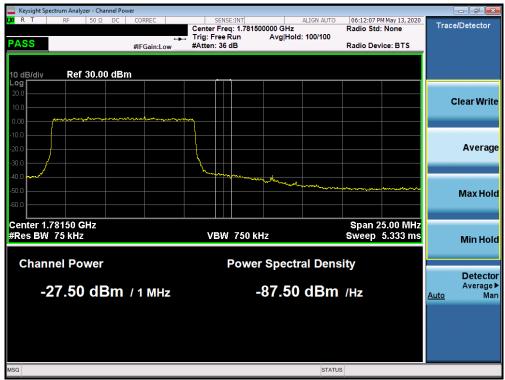
Plot 7-499. Lower Extended Band Edge Plot (n66 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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R T RF 50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO	06:11:49 PM May 13, 2020	Frequency
ASS	PNO: Wide ↔→ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A P N N N N	Frequency
dB/div Ref 25.00 dBm			Mkr1	1.780 025 GHz -28.14 dBm	Auto Tun
5.0					Center Fre 1.780000000 GH
.00	monte	m			Start Fre 1.767500000 G⊦
5.0		11			Stop Fre 1.792500000 GH
5.0		Lan	mont		CF Ste 2.500000 MH Auto Ma
5.0					Freq Offs 0 F
enter 1.78000 GHz	#) (D)))	430 kHz		Span 25.00 MHz	Scale Typ
Res BW 120 kHz	#VDVV	430 KHZ	Sweep	.000 ms (1001 pts)	

Plot 7-500. Upper Band Edge Plot (n66 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)



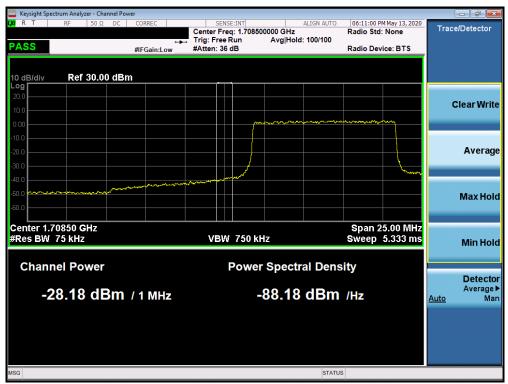
Plot 7-501. Upper Extended Band Edge Plot (n66 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager		
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Plot 7-502. Lower Band Edge Plot (n66 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)



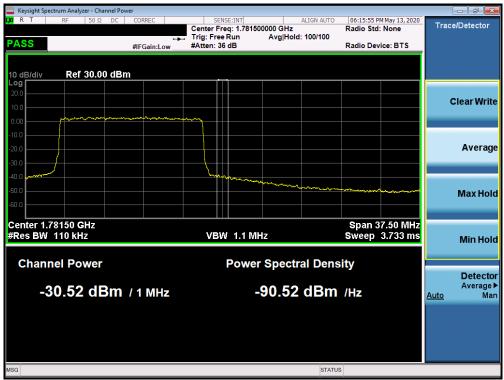
Plot 7-503. Lower Extended Band Edge Plot (n66 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	IFGain:Low	Trig: Free Run #Atten: 36 dB			
dB/div Ref 25.00 dBm			Mkr1 1	.780 037 5 GHz -30.35 dBm	Auto Tun
5.0 Trace 1 Pass					Center Fre 1.780000000 GH
00	, mar and a second s	monent			Start Fre 1.761250000 GH
5.0		1			Stop Fre 1.798750000 G⊢
5.0		m	munition		CF Ste 3.750000 MH Auto Ma
5.0				man	Freq Offse 0 F
enter 1.78000 GHz Res BW 180 kHz	#\/B\A	620 kHz	Swaan	Span 37.50 MHz I.000 ms (1001 pts)	Scale Typ Log <u>Li</u>

Plot 7-504. Upper Band Edge Plot (n66 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)



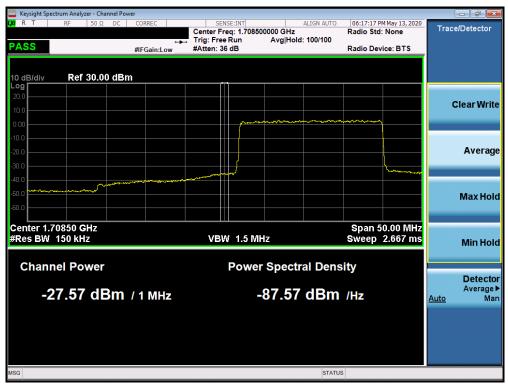
Plot 7-505. Upper Extended Band Edge Plot (n66 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager		
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Plot 7-506. Lower Band Edge Plot (n66 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-507. Lower Extended Band Edge Plot (n66 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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🔤 Keysight Spectrum Analyzer - Chanr	nel Power					
L <mark>X/</mark> RT RF 50Ω	DC CORREC	SENSE:INT Center Freg: 1.7801	ALIGN A	AUTO 06:18:18 PM N Radio Std: N		Trace/Detector
24.00	- -	Trig: Free Run	Avg Hold: 100/1	100		
PASS	#IFGain:Low	#Atten: 36 dB		Radio Devic	e: BTS	
10 dB/div Ref 30.00	dBm					
20.0						
						Clear Write
10.0						
0.00	www.www.www.www.www.www.www.	, manual in the second				
-10.0						
-20.0						Average
-30.0						
-40.0						
-50.0			- manun	mun many many		Max Hold
-60.0						Max Holu
Center 1.78010 GHz				Span 50.		
#Res BW 100 kHz		VBW 1 MH	2	Swee	p 6 ms	Min Hold
Channel Power		Powe	r Spectral D	ensity		
						Detector
-33.61 dB	m / 200 kHz		-86.62 dE	Sm /Hz		Average▶ Auto Man
						Auto
MSG				STATUS		

Plot 7-508. Upper Band Edge Plot (n66 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

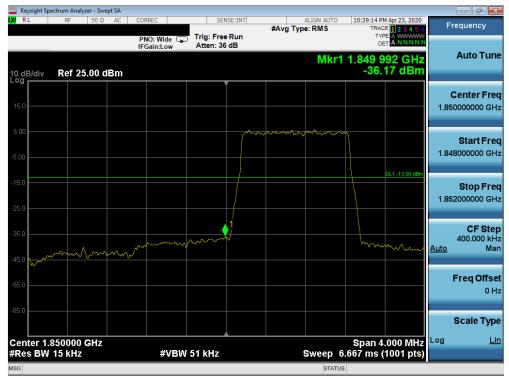


Plot 7-509. Upper Extended Band Edge Plot (n66 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

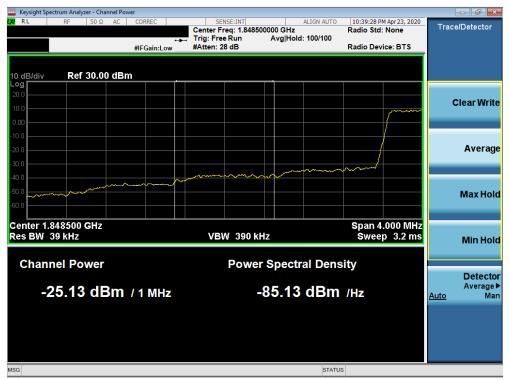
FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Band 25/2



Plot 7-510. Lower Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



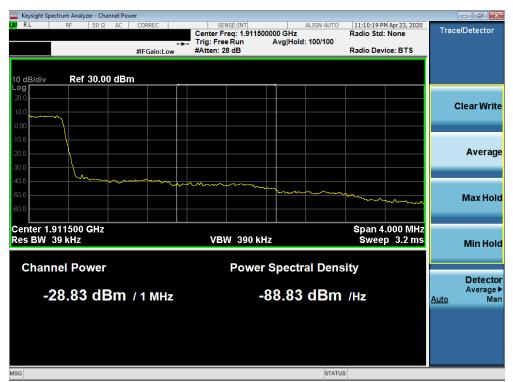
Plot 7-511. Lower Extended Band Edge Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	pectrum Analyze	er - Swep	t SA										
RL	RF	50 Ω	AC	PNO: W			sense:INT ree Run 36 dB	#Avg	ALIGN AUTO	TR	PM Apr 23, 2020 ACE 1 2 3 4 5 6 YPE A WWWWW DET A N N N N N	F	requency
0 dB/div	Ref 25.	00 dE	Зm						Mkı	1 1.910 -40	008 GHz .10 dBm		Auto Tun
15.0													Center Fre
.00		ſ	~~~{v	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	M							1.90	Start Fre 08000000 GF
5.0											DL1 -13.00 dBm	1.91	Stop Fre 12000000 GI
5.0 5.0	M						1-	Ann	mm	- And A		<u>Auto</u>	CF Ste 400.000 ki M
5.0											Mr Mong		Freq Offs 0
enter 1	.910000 G	Hz								Span	4.000 MHz	Log	Scale Typ
Res BM	/ 16 kHz			7	#VBW	56 kHz	2		Sweep	5.667 ms	(1001 pts)		
3									STAT	rus			

Plot 7-512. Upper Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)



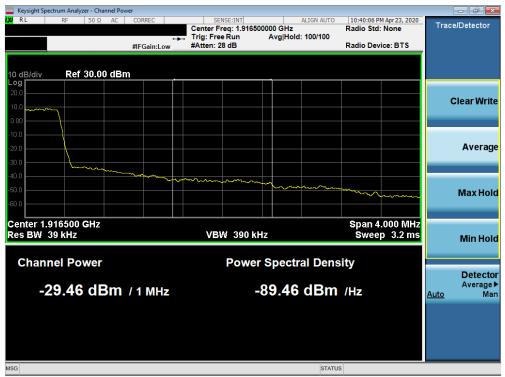
Plot 7-513. Upper Extended Band Edge Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SUNG	Approved by: Quality Manager		
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Keysight Spectrum Analyzer - Swept SA			1		
XI RL RF 50Ω AC	PNO: Wide 😱 Trig: Free	#Avg Type e Run	e: RMS TRAC TY	M Apr 23, 2020 DE 1 2 3 4 5 6 PE A WWWWW T A N N N N N	Frequency
10 dB/div Ref 25.00 dBm	IFGain:Low Atten: 36	S dB	Mkr1 1.915 (Auto Tune
15.0				1.	Center Fred 915000000 GH:
5.00				1.	Start Fre 913000000 GH
25.0					Stop Fre 917000000 GH
45.0		1	Manna	Aut	CF Ste 400.000 kH 2 Ma
56.0					Freq Offse 0 H
65.0					Scale Typ
Center 1.915000 GHz #Res BW 15 kHz	#VBW 51 kHz		Span 4 Sweep 6.667 ms (-000 10112	<u>Lir</u>
ISG			STATUS		

Plot 7-514. Upper Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)



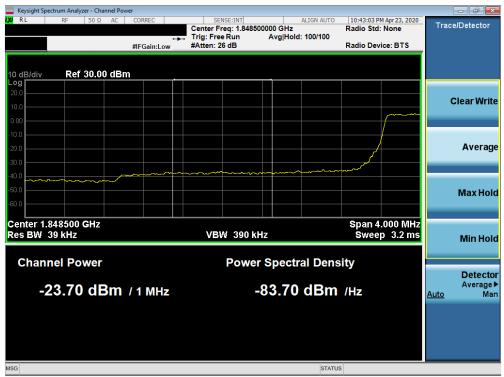
Plot 7-515. Upper Extended Band Edge Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spectrum A										
XIRL RF	50 Ω AC	CORREC		ISE:INT	#Avg Typ	ALIGN AUTO	TRAC	1 Apr 23, 2020 E 1 2 3 4 5 6	Fr	equency
10 dB/div Ref	25.00 dBm	PNO: Wide IFGain:Low	Trig: Free Atten: 36			Mkr1	DE 1.849 9	96 GHz 33 dBm		Auto Tune
15.0										Center Freq 0000000 GHz
-5.00								DL1 -13.00 dBm	1.84	Start Freq 8000000 GHz
-15.0				1					1.85	Stop Fred 2000000 GHz
-35.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~							<u>Auto</u>	CF Step 400.000 kH Mar
-55.0										Freq Offse 0 Ha
-65.0 Center 1.85000	00 GHz						Span 4	.000 MHz	Log	Scale Type <u>Lin</u>
#Res BW 36 kl		#VBW	130 kHz			Sweep 2	.000 ms (1001 pts)		
MSG						STATUS	3			

Plot 7-516. Lower Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)



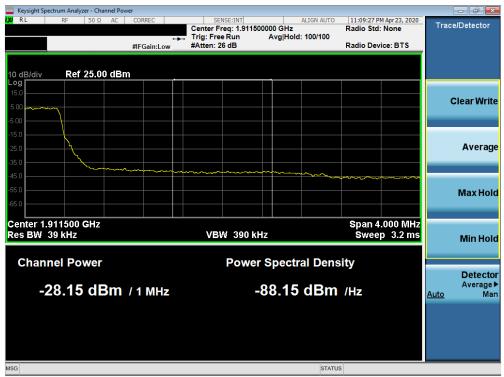
Plot 7-517. Lower Extended Band Edge Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

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Keysight Spectrum Analyzer - Swept SA					
🗶 RL RF 50Ω AC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	11:09:21 PM Apr 23, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 25.00 dBm		g: Free Run en: 36 dB	Mkr1	1.910 000 GHz -27.439 dBm	Auto Tune
15.0					Center Freq 1.910000000 GHz
5.00				DL1 -13 00 dBm	Start Freq 1.908000000 GHz
-25.0		1			Stop Freq 1.912000000 GHz
-35.0			······		CF Step 400.000 kHz <u>Auto</u> Man
-55.0					Freq Offset 0 Hz
-65.0 Center 1.910000 GHz				Span 4.000 MHz	Scale Type
#Res BW 36 kHz	#VBW 130	kHz	Sweep 2	2.000 ms (1001 pts)	
MSG			STATU		

Plot 7-518. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)



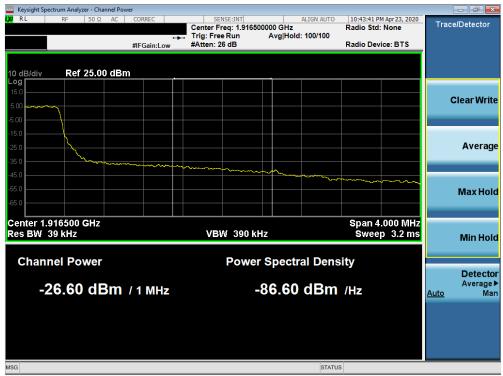
Plot 7-519. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager		
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	ectrum Analyzer - Swept SA									
X/RL	RF 50 Ω AC	PNO: Wide	Trig: Free		#Avg Typ	e: RMS	TRAC TYP	Apr 23, 2020 E 1 2 3 4 5 6 E A WWWW T A N N N N N	Fr	equency
10 dB/div	Ref 25.00 dBm	IFGain:Low	Atten: 36	dB		Mkr1	1.915 0			Auto Tune
15.0										Center Freq 5000000 GHz
-5.00 								DL1 -13.00 dBm	1.91	Start Freq 3000000 GHz
-15.0				1					1.91	Stop Fred 7000000 GHz
-35.0					·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>Auto</u>	CF Step 400.000 kH: Mar
55.0										Freq Offse 0 Ha
-65.0	915000 GHz						Span 4	.000 MHz	Log	Scale Type
#Res BW		#VBW	130 kHz			Sweep 2	span 4 2.000 ms (1001 pts)	-	
ISG						STATUS				

Plot 7-520. Upper Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)



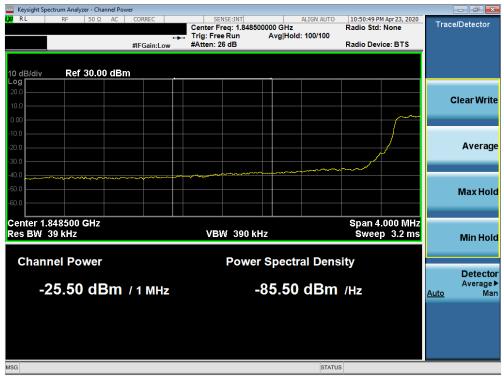
Plot 7-521. Upper Extended Band Edge Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager		
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Keysight Spectrum Analyzer - Swept SA					
RL RF 50Ω AC		SENSE:INT	ALIGN AUTO #Avg Type: RMS	10:50:37 PM Apr 23, 2020 TRACE 1 2 3 4 5 6 TYPE A WWWW	Frequency
0 dB/div Ref 25.00 dBm	IFGain:Low Atte	n: 36 dB	Mkr1	1.849 992 GHz -29.52 dBm	Auto Tune
15.0					Center Freq 1.850000000 GHz
5.00				DL1 -13.00 dBm	Start Freq 1.848000000 GHz
25.0		1 ¹			Stop Fred 1.852000000 GHz
35.0					CF Step 400.000 kH: <u>Auto</u> Mar
55.0					Freq Offse 0 H:
Center 1.850000 GHz	#VBW 220		Super-2	3pan 4.000 Minz	Scale Type
Res BW 62 kHz	#VBW 220	KHZ	Sweep 2	.000 ms (1001 pts)	

Plot 7-522. Lower Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)



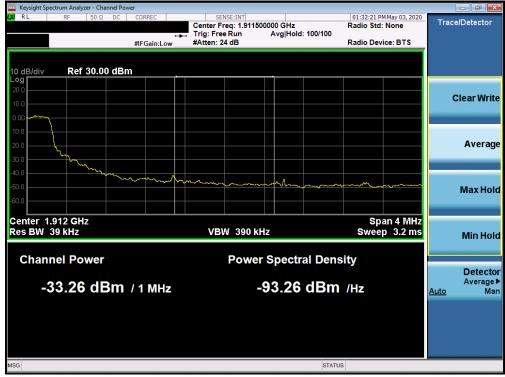
Plot 7-523. Lower Extended Band Edge Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager		
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Keysight Spectrum Analyzer - Swept SA				- • • •
ΙΧΊ RL RF 50 Ω DC		ISE:INT #Avg Type:		Frequency
10 dB/div Ref 25.00 dBm	PNO: Wide Trig: Free IFGain:Low Atten: 36	a Run ⊱dB	Mkr1 1.910 016 GHz -27.70 dBm	
15.0				Center Freq 1.910000000 GHz
5.00	men month in a start and by			Start Freq 1.908000000 GHz
-15.0		1	DL1 -13.00 dBm	Stop Freq 1.912000000 GHz
-35.0		Manganan	managenation	CF Step 400.000 kHz <u>Auto</u> Mar
-55.0				Freq Offsel 0 Hz
-65.0				Scale Type
Center 1.910000 GHz #Res BW 62 kHz	#VBW 220 kHz	S	Span 4.000 MHz weep 6.667 ms (1001 pts)	Log <u>Lin</u>
MSG			STATUS	

Plot 7-524. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)



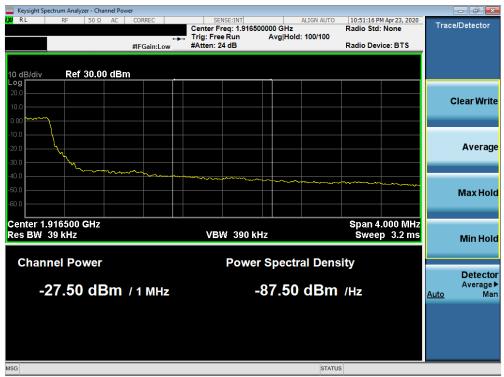
Plot 7-525. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ctrum Analyzer - Swept SA								_	
LX/RL	RF 50 Ω AC	CORREC		ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	M Apr 23, 2020 E 1 2 3 4 5 6 E A WWWWW	Fr	equency
10 dB/div Log r	Ref 25.00 dBm	PNO: Wide G	Atten: 36			Mkr1	DE 1.915 0	00 GHz 77 dBm		Auto Tune
15.0										Center Freq 5000000 GHz
-5.00								DL1 -13.00 dBm	1.91	Start Freq 3000000 GHz
-15.0			- la	1					1.91	Stop Freq 7000000 GHz
-35.0				h	~~~~	·····	······	·······	Auto	CF Step 400.000 kHz Mar
-55.0										Freq Offset 0 Hz
-65.0	915000 GHz						Snap 4	.000 MHz		Scale Type <u>Lir</u>
#Res BW		#VBW	220 kHz			Sweep 2	2.000 ms (1001 pts)		
MSG						STATU	5			

Plot 7-526. Upper Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)



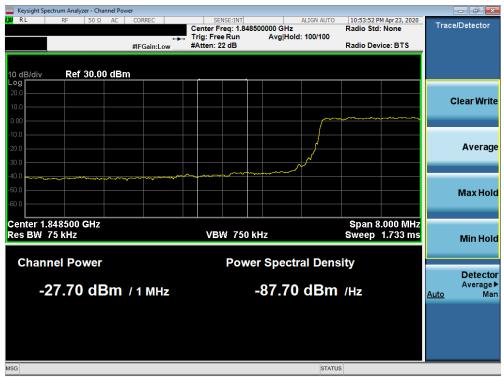
Plot 7-527. Upper Extended Band Edge Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					
X RL RF 50 Ω AC		#Avg Typ	e: RMS TRAC	M Apr 23, 2020 E 1 2 3 4 5 6 PE A WWWWW	uency
10 dB/div Ref 25.00 dBm	PNO: Wide P Irig: Free IFGain:Low Atten: 36		■ Mkr1 1.850 (uto Tune
15.0					nter Freq 00000 GHz
5.00			and the strate of the strate o		Start Fred 00000 GH2
-15.0					Stop Fred 00000 GHz
-35.0 	wanter at my almost and a set of the set of			Auto	CF Step 00.000 kH Mar
55.0				Fr	e q Offse 0 H
-65.0 Center 1.850000 GHz	#VBW 430 kHz		Span 8	.000 MHz Log	cale Type <u>Lir</u>
#Res BW 120 kHz	#VBW 450 KHZ		Sweep 4.000 ms (

Plot 7-528. Lower Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)



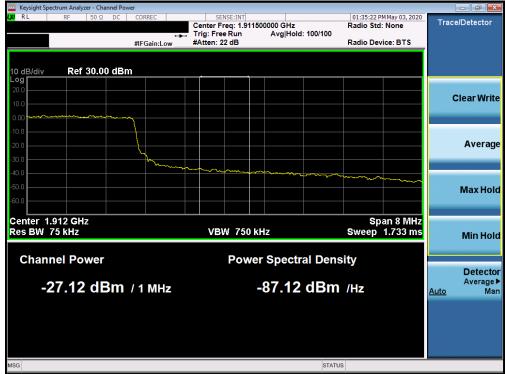
Plot 7-529. Lower Extended Band Edge Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					
KL RF 50Ω DC	CORREC	SENSE:INT	#Avg Type: RMS	01:35:15 PM May 03, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 25.00 dBm		rig: Free Run Atten: 36 dB	Mkr1	1.910 000 GHz -27.592 dBm	Auto Tune
15.0					Center Freq 1.910000000 GHz
5.00 				DL1 -13.00 dBm	Start Freq 1.906000000 GHz
-15.0					Stop Freq 1.914000000 GHz
-35.0		Thylonogenera	-	and a second	CF Step 800.000 kHz <u>Auto</u> Man
-55.0					Freq Offset 0 Hz
-65.0 Center 1.910000 GHz #Res BW 120 kHz	#VBW 43			Span 8.000 MHz	Scale Type
#Res BW 120 KHZ	#VBW 43		Sweep 1	3.33 ms (1001 pts)	

Plot 7-530. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



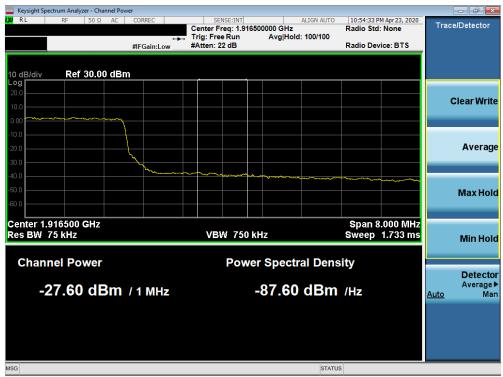
Plot 7-531. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					
XI RL RF 50Ω AC		#Avg Typ	e: RMS TRA	PM Apr 23, 2020 CE 1 2 3 4 5 6	Frequency
10 dB/div Ref 25.00 dBm	PNO: Wide Trig: Fre IFGain:Low Atten: 30		Mkr1 1.915 (-31.9	000 GHz 57 dBm	Auto Tune
15.0					Center Freq 1.915000000 GHz
5.00	Angenese Anny Angelsen (Anny Anny Anny Anny Anny Anny Anny An			DL1 -13.00 dBm	Start Fred 1.911000000 GHz
-15.0					Stop Fred 1.919000000 GH;
-35.0	N 		and the second	- Marton A	CF Step 800.000 kHz Auto Mar
55.0					Freq Offse 0 H:
-65.0					Scale Type
Center 1.915000 GHz #Res BW 120 kHz	#VBW 430 kHz	2	Span Syan Sweep 4.000 ms	0.000 111112	<u></u>
ISG			STATUS		

Plot 7-532. Upper Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)



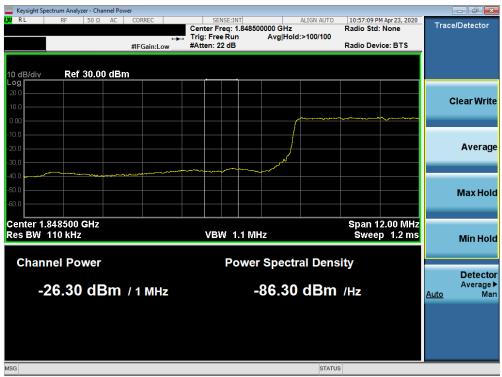
Plot 7-533. Upper Extended Band Edge Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager	
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Keysight Spectrum Analyzer - Swept SA					
🗶 RL RF 50Ω AC			ALIGN AUTO #Avg Type: RMS	10:57:02 PM Apr 23, 2020 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div Ref 25.00 dBm	PNO: Wide Frig: Fre IFGain:Low Atten: 3		Mkr1	1.850 000 GHz -31.739 dBm	Auto Tune
15.0					Center Freq 1.850000000 GHz
-5.00			www.www.www.www.	DL1 -13.00 dBm	Start Freq 1.844000000 GHz
-15.0		1			Stop Freq 1.856000000 GHz
45.0	monte and a second s				CF Step 1.200000 MH <u>Auto</u> Mar
-55 0					Freq Offset 0 Hz
-65.0 Center 1.850000 GHz			0	Span 12.00 Minz	Scale Type
#Res BW 180 kHz	#VBW 620 kHz		Sweep 1.	000 ms (1001 pts)	

Plot 7-534. Lower Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)



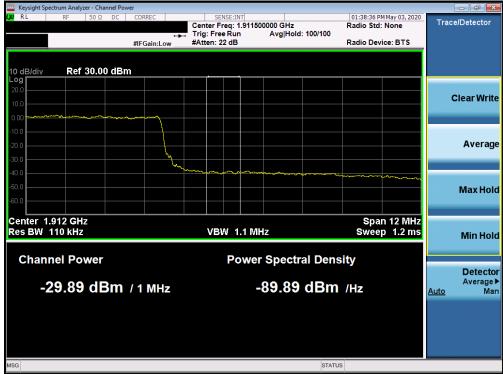
Plot 7-535. Lower Extended Band Edge Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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🔤 Keysight Spectrum Analyzer - Swept SA 👘					
ΙΧΙ RF 50 Ω DC	CORREC	SENSE:INT	#Avg Type: RMS	01:38:29 PM May 03, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 25.00 dBm		rig: Free Run tten: 36 dB	Mkr	1 1.910 000 GHz -30.34 dBm	Auto Tune
15.0					Center Freq 1.910000000 GHz
5.00	m			DL1 -13.00 dBm	Start Freq 1.904000000 GHz
-25.0		1			Stop Freq 1.916000000 GHz
-35.0		Jan Stranger		hour for the	CF Step 1.200000 MHz <u>Auto</u> Man
-55.0					Freq Offset 0 Hz
-65.0 Center 1.910000 GHz				Span 12.00 MHz	Scale Type
#Res BW 180 kHz	#VBW 62	0 kHz	Sweep	1.000 ms (1001 pts)	

Plot 7-536. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)



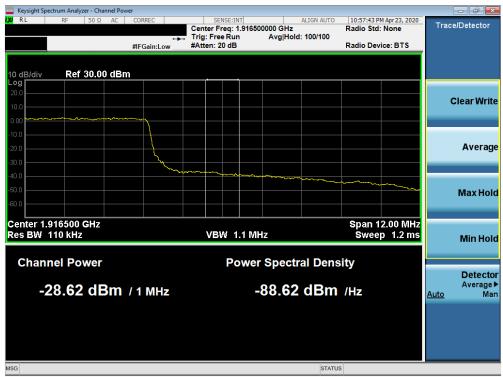
Plot 7-537. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ctrum Analyzer - Swept SA								- ē ×
X/RL	RF 50 Ω AC	CORREC	SENSE		#Avg Type	ALIGN AUTO E: RMS	TRAC	Apr 23, 2020 1 2 3 4 5 6 A WWWWW	Frequency
10 dB/div	Ref 25.00 dBm	PNO: Wide 🖵 IFGain:Low	Atten: 36 d			Mkr1	DE	00 GHz 66 dBm	Auto Tune
15.0									Center Freq 1.915000000 GHz
-5.00		mr.a.						DL1 -13.00 dBm	Start Fred 1.909000000 GH:
-15.0									Stop Free 1.921000000 GH:
-35.0				`~~~\brace	m m		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	CF Step 1.200000 MH <u>Auto</u> Mar
55.0									Freq Offse 0 H
-65.0	15000 GHz						Span 1	2.00 MHz	Scale Type
#Res BW		#VBW	620 kHz		ę	Sweep 1.	.000 ms (1001 pts)	
ISG						STATUS			

Plot 7-538. Upper Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)



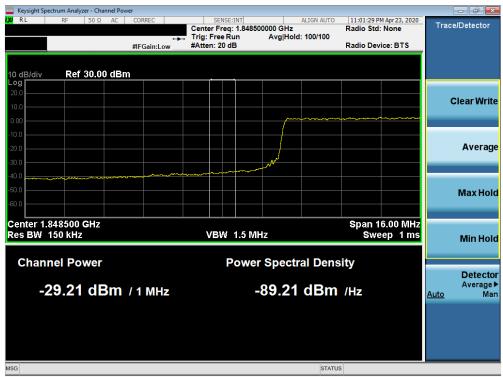
Plot 7-539. Upper Extended Band Edge Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENTREPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyzer - Swept SA					
X/RL	RF 50 Ω AC	CORREC	SENSE:INT	ALIGN A #Avg Type: RM		Frequency
10 dB/div Log r	Ref 25.00 dBm	PNO: Wide 🖵 IFGain:Low	Atten: 36 dB	M	kr1 1.849 968 GHz -31.94 dBm	Auto Tune
15.0						Center Freq 1.850000000 GHz
5.00					DL1 -13.00 dBm	Start Freq 1.842000000 GHz
-15.0			1,1			Stop Fred 1.858000000 GH;
-35.0	man and a second and	wheeling- wheeling	- A A A			CF Step 1.600000 MH: <u>Auto</u> Mar
-55.0						Freq Offse 0 H:
	850000 GHz				Span 16.00 MHz	Scale Type
#Res BW	240 kHz	#VBW	820 kHz		p 1.000 ms (1001 pts)	
ISG				\$	STATUS	

Plot 7-540. Lower Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)



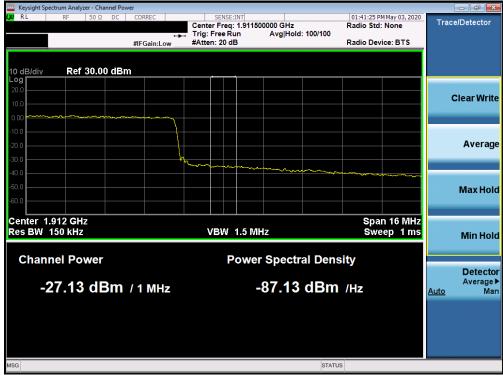
Plot 7-541. Lower Extended Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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RL RF 50 @ DC CORREC SERVECINT Initial Type: RMS Initial Type: RMS Trace of type	Keysight Spectrum Analyzer - Swept SA					
Incluing of Atten: 36 dB Det ANNANCE Mkr1 1.910 000 GHz Auto Tune 10 dB/dlv Ref 25.00 dBm -29.16 dBm 150 -29.16 dBm -29.16 dBm 150 -20.1100000 GHz -20.110000 GHz 150 -20.1100000 GHz -20.1100000 GHz 150 -20.1100000 GHz -20.100000 GHz 150 -20.1100000 GHz -20.100000 GHz 150.00000 GHz -20.100000 GHz -20.100000 GHz 150.00000 GHz -20.100000 GHz -20.100000 GHz 150.000000 GHz -20.100000 GHz -20.100000 GHz	LXX RL RF 50Ω DC			#Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
150 Image: Center Freq 150 Image: Center Freq <td< th=""><th>10 dB/div Ref 25.00 dBm</th><th></th><th></th><th>Mkr</th><th>1 1.910 000 GHz</th><th>Auto Tune</th></td<>	10 dB/div Ref 25.00 dBm			Mkr	1 1.910 000 GHz	Auto Tune
Start Freq Start Freq 1.90200000 GHz CL1 1900et Stop Freq 1.91800000 GHz CCF Step 1.91800000 GHz CF Step 1.91800000 GHz CF Step 1.91800000 GHz CF Step 1.91800000 GHz Start Freq 1.91800000 GHz CF Step 1.91800000 GHz CF Step 1.9180000 GHZ CF Step 1.91800000 GHZ CF Step 1.9180000 GHZ CF Step 1.91800000 GHZ CF Step 1.91800000 GHZ CF Step 1.91800000 G	15.0					
15.0 1	and the second and a second by the second	man and a second			Di 1.13.00 dBm	
330 1.600000 MHz 45.0 1.600000 MHz 45.0 1.60000 MHz 45.0 1.600 MHz 45.0 1.600 MHz 400 1.600 Mz			11			
550 0 Hz 650 0 Hz Center 1.910000 GHz #VBW 820 kHz Span 16.00 MHz Log Lin			horn	Margan and a start and a start and a start a st	monte	1.600000 MHz
Center 1.910000 GHz #Res BW 240 kHz #VBW 820 kHz Sweep 1.000 ms (1001 pts)						
	Center 1.910000 GHz				Span 16.00 MHz	Log <u>Lin</u>
		#VBW 820 ki	HZ			

Plot 7-542. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



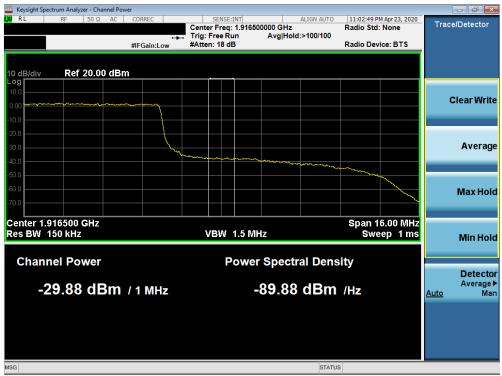
Plot 7-543. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA				
X RL RF 50 Ω AC		#Avg Type:	RMS TRAC	Apr23, 2020 E 1 2 3 4 5 6 E A WWWWW
10 dB/div Ref 25.00 dBm	PNO: Wide 🅌 Trig: Free IFGain:Low Atten: 36 d	dB	Mkr1 1.915 0 -33.2	
15.0				Center Fred 1.915000000 GH2
5.00				Start Fred 1.907000000 GH
-15.0				Stop Fred 1.923000000 GH
45.0		1	ware we are a second	CF Ste 1.600000 MH <u>Auto</u> Ma
55.0				Freq Offse
65.0 Center 1.915000 GHz			Snan 1	Scale Type 6.00 MHz
#Res BW 240 kHz	#VBW 820 kHz	S	weep 1.000 ms (*	1001 pts)
ISG			STATUS	

Plot 7-544. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-545. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

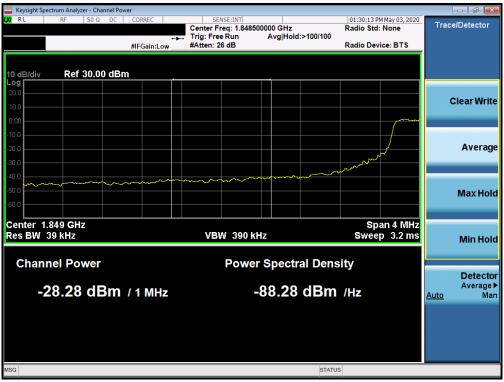
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NR Band n25/2

Keysight Spectrum Analyzer - Sv		SENSE:INT		01:29:51 PM May 03, 2020	
14 503	TE DC CONNEC		#Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide 🖵 IFGain:Low	Trig: Free Run Atten: 36 dB		DET A NNNN	
	IPGalli.Low	, and a set of a set	Mkr	1 1.849 996 GHz	Auto Tur
10 dB/div Ref 25.00	dBm		WIKI	-25.92 dBm	
		.			
					Center Fre
15.0					1.85000000 GI
5.00			and the second s	we want a want of the state of	
					Start Fre
-5.00					1.848000000 GI
				DL1 -13.00 dBm	
-15.0					Stop Fre
		11			1.852000000 GI
-25.0		A			
		and the second s			CF Ste
-35.0	man was well and the second	and the second s			400.000 ki
the second se					<u>Auto</u> Ma
-45.0					
					Freq Offs
-55.0					. 01
-65.0					Scale Ty
Center 1.850000 GHz	2			Span 4.000 MHz	Log <u>L</u>
#Res BW 62 kHz		220 kHz	Sweep	6.667 ms (1001 pts)	
ISG			STAT	US	

Plot 7-546. Lower Band Edge Plot (n25/2 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)



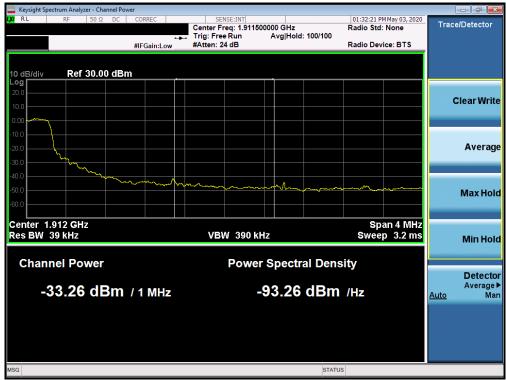
Plot 7-547. Lower Extended Band Edge Plot (n25/2 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyzer - Sw										
LXI RL	RF 50 Ω	2 DC	CORREC	SEI	ISE:INT	#Avg Typ	e: RMS	TRAC	M May 03, 2020	F	requency
10 dB/div	Ref 25.00	dBm	PNO: Wide IFGain:Low	Atten: 36			Mkr1	1.910 0)16 GHz 70 dBm		Auto Tune
15.0											Center Freq 0000000 GHz
-5.00	and a second and the		www.werenellind.com						DL1 -13.00 dBm	1.90	Start Freq 8000000 GHz
-15.0				H	1					1.91	Stop Freq 2000000 GHz
-35.0				~U	My Maria	manna	hand the second	mathan	ang Mu page	<u>Auto</u>	CF Step 400.000 kHz Man
-55.0									- • · ·		Freq Offsel 0 Hz
-65.0											Scale Type
Center 1. #Res BW	910000 GHz 62 kHz		#VBW	220 kHz			Sweep_6	Span 4 6.667 m <u>s (</u>	.000 MHz (1001 pts)	Log	<u>Lin</u>
MSG							STATUS				

Plot 7-548. Upper Band Edge Plot (n2 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)



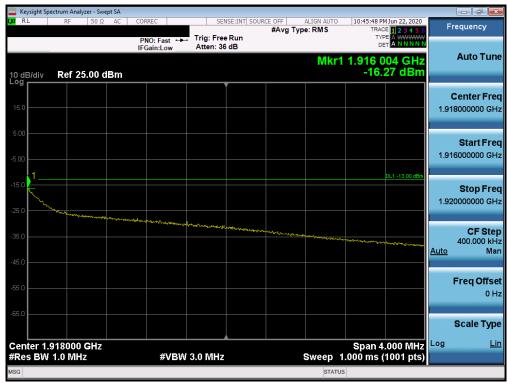
Plot 7-549. Upper Extended Band Edge Plot (n2 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyzer - Swep										
LXI RL	RF 50 Ω	AC COR	REC	SEN	ISE:INT SOUR	CE OFF	ALIGN AUTO		1 Jun 22, 2020 E 1 2 3 4 5 6	Fr	equency
10 dB/div	Ref 25.00 dl	IFC	IO: Wide 🖵 Sain:Low	Trig: Free Atten: 36		• 1	Mkr1	1.915 0	00 GHz 28 dBm		Auto Tune
15.0		2111									Center Freq 5000000 GHz
-5.00	<u>~~~</u>	~~~~	,,						DL1 -13.00 dBm	1.91	Start Freq 3000000 GHz
-15.0					1					1.91	Stop Freq 7000000 GHz
-35.0						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	·~~~~	<u>Auto</u>	CF Step 400.000 kHz Mar
-45.0											Freq Offse 0 Ha
-65.0											Scale Type
Center 1.9 #Res BW	915000 GHz 62 kHz		#VBW	220 kHz			Sweep_1	Span 4 .000 m <u>s (</u>	.000 MHz 1001 pts)	Log	Lin
MSG							STATUS				

Plot 7-550. Upper Band Edge Plot (n25 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)



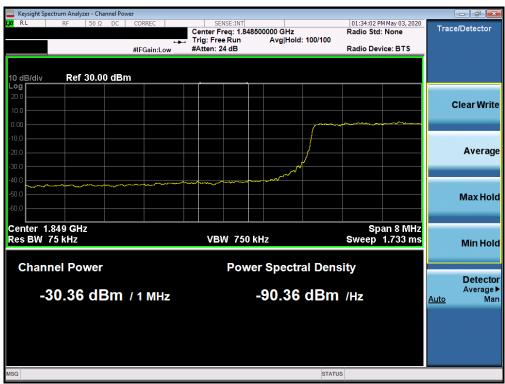
Plot 7-551. Upper Extended Band Edge Plot (n25 - 5MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
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	t Spectrum Analy										
l <mark>xi</mark> RL	RF	50 Ω DC	CORREC	SE	NSE:INT	#Avg Typ	e: RMS		May 03, 2020	F	requency
			PNO: Wid IFGain:Lo				Mkr1	TYP			Auto Tune
10 dB/di	v Ref 25	5.00 dBm	1					-27.1	15 dBm		
					Ĭ						Center Freq
15.0											0000000 GHz
5.00					James	- and and the second	mannational	******	when money		Start Freq
-5.00										1.84	6000000 GHz
0.00									DL1 -13.00 dBm		
-15.0											Stop Freq
					1					1.85	4000000 GHz
-25.0					/						
-35.0											CF Step
n~+11	wallow	mallenn	and a show and	worker						<u>Auto</u>	800.000 kHz Man
-45.0											
-55.0											Freq Offset
-55.0											0 Hz
-65.0											
											Scale Type
Center	1.850000	GHz						Span 8.	000 MHz	Log	<u>Lin</u>
#Res B	W 120 kHz	z	#\	/BW 430 kHz			Sweep 1	3.33 ms (1001 pts)		
MSG							STATUS	;			

Plot 7-552. Lower Band Edge Plot (n25/2 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)



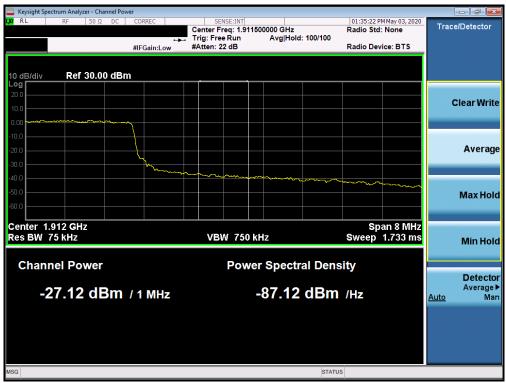
Plot 7-553. Lower Extended Band Edge Plot (n25/2 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyzer - Swep										
X/RL	RF 50 Ω	DC CC	ORREC	SEN	ISE:INT	#Avg Typ	e: RMS		May 03, 2020	F	equency
	Ref 25.00 dl	I	PNO: Wide 🖵 Gain:Low	Trig: Free Atten: 36				TYP DE 1.910 0	00 GHz 92 dBm		Auto Tune
10 dB/div Log 15.0	Rel 25.00 di	ыш									Center Freq 0000000 GHz
5.00	urvan an mouth an true	geet ^a t-aanta	and and the second second second	limber live by						1.90	Start Freq 6000000 GHz
-15.0					1				DL1 -13.00 dBm	1.91	Stop Freq 4000000 GHz
-35.0				14	M. M. Margaran	hall be and the special	hourn afrain	all man demanding of	and and all and	<u>Auto</u>	CF Step 800.000 kH: Mar
-45.0											Freq Offse 0 Ha
-65.0											Scale Type
Center 1.9 #Res BW	910000 GHz 120 kHz		#VBW	430 kHz			Sweep 1	Span 8. 3.33 ms (Log	Lin
MSG							STATUS				

Plot 7-554. Upper Band Edge Plot (n2 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-555. Upper Extended Band Edge Plot (n2 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyzer - Swe									_	
L <mark>XI</mark> RL	RF 50 Ω	AC	CORREC	SEN	SE:INT SOUR	#Avg Typ	ALIGN AUTO e: RMS		I Jun 22, 2020	Fr	equency
			PNO: Wide 😱 IFGain:Low	Trig: Free Atten: 36				TYP DE 1.915 0			Auto Tune
10 dB/div Log	Ref 25.00 c	lBm						-28.1	17 dBm		
15.0											enter Freq 6000000 GHz
-5.00		,	en e	~~~						1.911	Start Freq
-15.0					1				DL1 -13.00 dBm	1.919	Stop Freq
-35.0					Ly many	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	<u>Auto</u>	CF Step 800.000 kHz Man
-45.0										ŀ	F req Offset 0 Hz
-65.0										:	Scale Type
Center 1.9 #Res BW	915000 GHz 120 kHz		#VBW	430 kHz			Sweep 1	Span 8. .000 ms (000 1911 12	Log	<u>Lin</u>
MSG							STATUS				

Plot 7-556. Upper Band Edge Plot (n25 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)



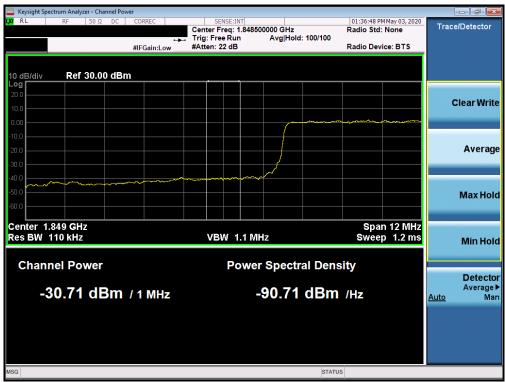
Plot 7-557. Upper Extended Band Edge Plot (n25 - 10MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager					
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	ectrum Analyzer - Swe										
L <mark>XI</mark> RL	RF 50 Ω	DC CC	ORREC	SEI	SE:INT	#Avg Typ	e: RMS		May 03, 2020	Freq	uency
		P IF	NO: Wide Gain:Low	Trig: Free Atten: 36				TYP DE		Δ	uto Tune
10 dB/div Log	Ref 25.00 c	IBm					MKr1	1.850 0 -30.2	00 GHZ 25 dBm		
				·						Ce	nter Freq
15.0										1.8500	00000 GHz
5.00											
					(mon	Mar		m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		tart Freq
-5.00										1.8440	00000 GHz
-15.0									DL1 -13.00 dBm		-
											Stop Freq
-25.0					1						
-35.0				س	1						CF Step
n	man	mannen	- www.	have a second						1.20 <u>Auto</u>	00000 MHz Man
-45.0											
-55.0										Fr	eq Offset
											0 Hz
-65.0										S	ale Type
Center 1. #Res BW	850000 GHz 180 kHz		#VBW	/ 620 kHz			Sweep 1	Span 1: .000 ms (2.00 MHz 1001 pts)	Log	Lin
MSG							STATUS				

Plot 7-558. Lower Band Edge Plot (n25/2 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)



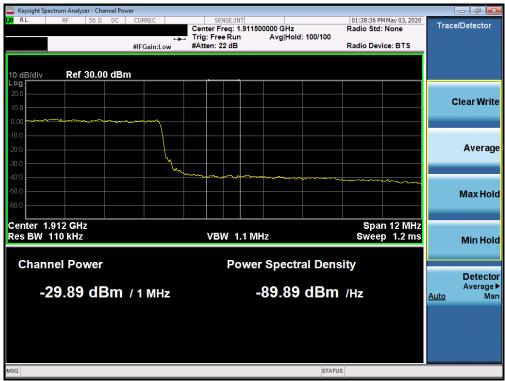
Plot 7-559. Lower Extended Band Edge Plot (n25/2 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SUNG	Approved by: Quality Manager					
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	ectrum Analyz										
XI RL	RF	50 Ω D	C COR	REC	SE	NSE:INT	#Avg Typ	e: RMS	TRAC	M May 03, 2020	Frequency
			PN	O:Wide ⊂ ain:Low	Trig: Fre Atten: 3				TYP	ET A NNNN	
			IFG		, titoni o			Mkr1	1.910 0	00 GHz	Auto Tune
10 dB/div	Ref 25.	.00 dBn	n						-30.	34 dBm	
						Ĭ					Center Fred
15.0											1.91000000 GH
5.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man	www.	mar	m						Start Free
5 00											1.904000000 GH
-5.00											
-15.0										DL1 -13.00 dBm	Stop Free
											1.916000000 GH
-25.0						1					
25.0					1	Uh.					CF Ster
-35.0						a free from	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	how	1.200000 MH Auto Ma
-45.0											Auto Ma
											Freq Offse
-55.0											0 H
-65.0											
-00:0											Scale Type
Center 1. #Res BW				#VB	V 620 kHz			Sweep_1	Span 1 .000 ms.(2.00 MHz (1001 pts)	_
ISG								STATUS		neer pro/	

Plot 7-560. Upper Band Edge Plot (n2 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-561. Upper Extended Band Edge Plot (n2- 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager			
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Auto Tune 8 dBm 1.915000000 GHz 1.909000000 GHz
1.915000000 GH2 Start Fred 1.909000000 GH2
1.909000000 GH
0L1 -13.00 dBm
Stop Fre 1.921000000 GH
CF Ste 1.200000 MH <u>Auto</u> Ma
Freq Offse 0 H
Scale Type
Span 12 #VBW 620 kHz Sweep 1.000 ms (1

Plot 7-562. Upper Band Edge Plot (n25 - 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)



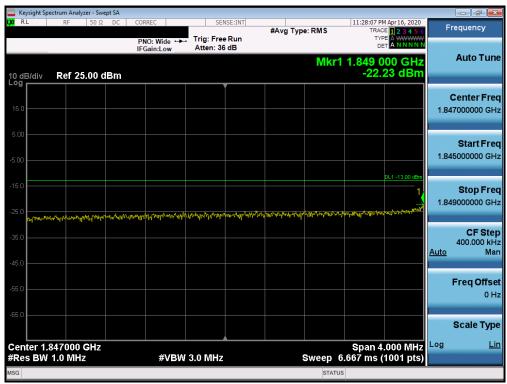
Plot 7-563. Upper Extended Band Edge Plot (n25- 15MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	Spectrum Analyzer - Swe									_	
L <mark>XI</mark> RL	RF 50 Ω	DC CO	RREC	SEI	ISE:INT	#Avg Typ	e: RMS		Apr16, 2020	F	requency
	B -6.05.00 -	IF	NO: Wide ↔ Gain:Low	→ Trig: Free Atten: 36			Mkr1	1.849 9	er A NN NN N 68 GHz 32 dBm		Auto Tune
10 dB/div Log	Ref 25.00 d	BM						-21.			Center Freq 0000000 GHz
-5.00					- Constant	and the second and the second	مەرىپى _{تى} تىمىمە	مىلىمكىمىرىمىمىلە	DI 4, 12:00 #Em	1.84	Start Freq 2000000 GHz
-15.0					1				DL1 -13.00 dBm	1.85	Stop Freq 8000000 GHz
-35,0 *****	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	n may Mager March	mmm	anound a						<u>Auto</u>	CF Step I.600000 MHz Man
-55.0											Freq Offset 0 Hz
-65.0											Scale Type
	l.850000 GHz V 240 kHz		#VBW	í 820 kHz			Sweep 1	Span 1 .000 ms (6.00 MHz 1001 pts)	Log	<u>Lin</u>
MSG							STATUS				

Plot 7-564. Lower Band Edge Plot (n25/2 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)



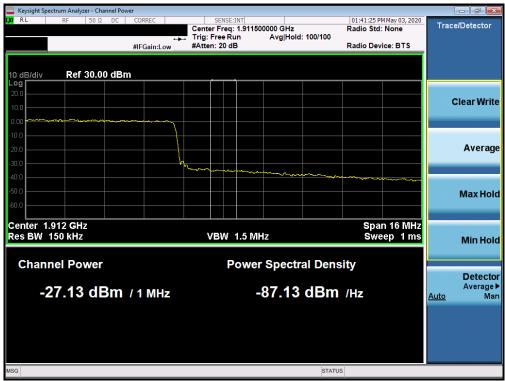
Plot 7-565. Lower Extended Band Edge Plot (n25/2 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager			
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	ectrum Analyz											- 6 -
X/RL	RF	50 Ω I	DC	CORREC			ENSE:INT	#Avg Ty	pe: RMS	TRA	M May 03, 2020	Frequency
				PNO: W	/ide 🖵 Low	Trig: Fr Atten:						
									Mkr	1 1.910 (00 GHz	Auto Tun
10 dB/div Log	Ref 25	.00 dB	m							-29.	16 dBm	
							Ť					Center Fre
15.0												1.91000000 GH
5.00												
J.00 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mum	ser and a series of the series	فكرينا كمعسمو	an - to - t	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m						Start Fre
-5.00												1.902000000 GH
											DL1 -13.00 dBm	
-15.0												Stop Fre
-25.0							1					1.918000000 GH
							handra					CF Ste
-35.0								and the second s	er and	man man	m	1.600000 MH
-45.0												<u>Auto</u> Ma
												Freq Offse
-55.0												
-65.0												
-60.0												Scale Typ
Center 1.9	040000	211-								- Chon (Log <u>Li</u>
Genter 1.9 #Res BW				1	#VBW	820 kH	Z		Sweep	Span 1 1.000 ms (6.00 MHz (1001 pts)	
MSG									STAT			

Plot 7-566. Upper Band Edge Plot (n2 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-567. Upper Extended Band Edge Plot (n2 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

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	ectrum Analyzer - Swept SA						
LXU RL	RF 50 Ω AC	CORREC	SENSE:INT	SOURCE OFF #Avg Tvp	ALIGN AUTO	10:40:20 PM Jun 22, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref 25.00 dBm	PNO: Wide 🖵 IFGain:Low	Trig: Free Run Atten: 36 dB	• //	Mkr1	1.915 000 GHz -28.43 dBm	Auto Tune
Log							Center Freq 1.915000000 GHz
-5.00		veren and an and a start of the				DL1 -13.00 dBm	Start Freq 1.907000000 GHz
-15.0			1_				Stop Freq 1.923000000 GHz
-35.0			horm	meres was made	And the second street	and	CF Step 1.600000 MHz <u>Auto</u> Man
-55.0							Freq Offset 0 Hz
-65.0							Scale Type
Center 1.9 #Res BW	915000 GHz 240 kHz	#VBW	820 kHz		Sweep 1.	Span 16.00 MHz 000 ms (1001 pts)	Log <u>Lin</u>
MSG					STATUS		

Plot 7-568. Upper Band Edge Plot (n2 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

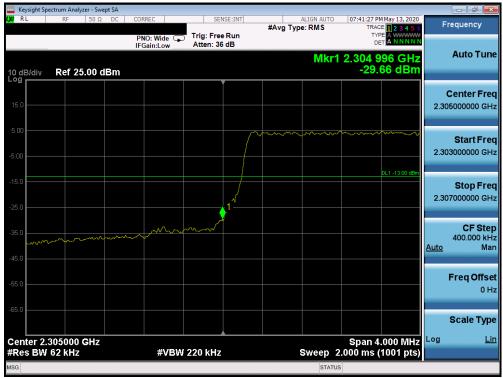


Plot 7-569. Upper Extended Band Edge Plot (n2 - 20MHz DFT-s-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
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Band 30



Plot 7-570. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-571. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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RL RF 50 Ω DC CORREC SENSE PNO: Wide Trig: Free R Trig: Free R Atten: 36 d 10 dB/div Ref 25.00 dBm Image: Correct of the sense Image: Correct of the sense Image: Correct of the sense 15.0 Image: Correct of the sense Image: Correct of th	
Atten: 36 d	ALIGN AUTO 07:43:04 PM May 13, 2020 #Avg Type: RMS TRACE 1 2 3 4 5 6 Frequency
15.0 5.00	Mkr1 2.315 03 GHz -28.48 dBm
-500 -500	Center Freq 2.315000000 GHz
-25.0 -35.0 -45.0 -65.0 -65.0 Center 2.315000 GHz	0.(1.13.00.050
-45.0 -55.0 -65.0 Center 2.315000 GHz	2.32000000 GHz
65.0	The second secon
Center 2.315000 GHz	Freq Offset
	Span 10.00 MHz
	Sweep 5.000 ms (1001 pts)

Plot 7-572. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-573. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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🔤 Keysight Spectrum Analyzer - Swept SA 👘					
LX/ RL RF 50Ω DC	CORREC SE	NSE:INT	#Avg Type: RMS	07:37:54 PM May 13, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 25.00 dBm	PNO: Wide Trig: Fre IFGain:Low Atten: 3	e Run 6 dB	Mkr1	2.304 992 GHz -29.73 dBm	Auto Tune
15.0					Center Freq 2.305000000 GHz
-5.00			waangayaa ahaadaha dhaya mahaa dhaada	DL1 -13.00 dBm	Start Freq 2.301000000 GHz
-15.0		1.0			Stop Freq 2.309000000 GHz
-35.0	and the second	1 ⁴			CF Step 800.000 kH: <u>Auto</u> Mar
-55.0					Freq Offse 0 H
-65.0 Center 2.305000 GHz				Span 8.000 MHz	Scale Type
#Res BW 120 kHz	#VBW 430 kHz	2	-	l.000 ms (1001 pts)	
MSG			STATU	S	

Plot 7-574. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-575. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA				
LX RL RF 50Ω DC	CORREC SEN	ISE:INT ALIGN A #Avg Type: RMS		Frequency
10 dB/div Ref 25.00 dBm	PNO: Wide Trig: Free IFGain:Low Atten: 36	Run dB	TYPE A WWWW DET A NNNNN Vikr1 2.315 00 GHz -30.01 dBm	Auto Tune
15.0				Center Freq 2.315000000 GHz
5.00 Japange Manager Province Section 1000	when we we wanted a start of the start of th			Start Freq 2.31000000 GHz
-25.0		(1	DL1 -13.00 dBm	Stop Freq 2.320000000 GHz
-35.0	^	and a second and a second and the se	an a an	CF Step 1.000000 MHz <u>Auto</u> Man
-45.0				Freq Offset 0 Hz
-65.0				Scale Type
Center 2.315000 GHz #Res BW 120 kHz	#VBW 430 kHz	Swee	Span 10.00 MHz p 5.000 ms (1001 pts)	Log <u>Lin</u>
MSG			TATUS	

Plot 7-576. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

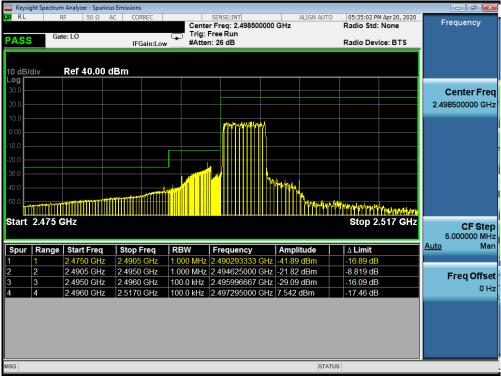


Plot 7-577. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

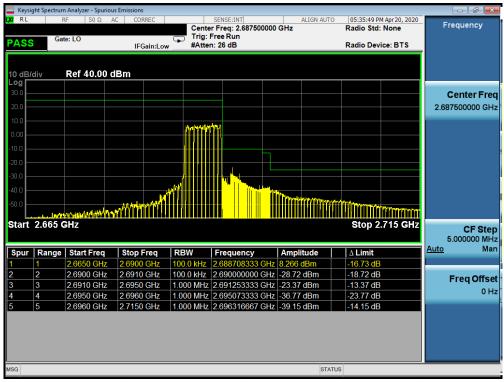
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Band 41 PC2



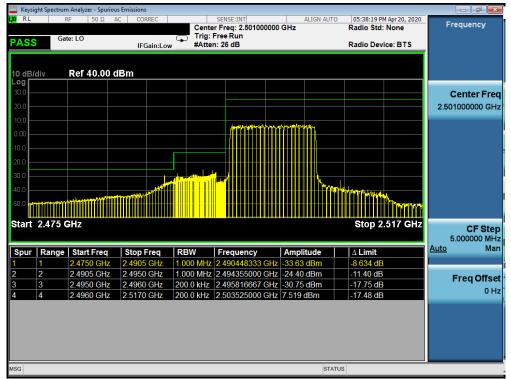
Plot 7-578. Lower ACP Plot at 2496 MHz (Band 41 PC2- 5.0MHz QPSK - Full RB Configuration)



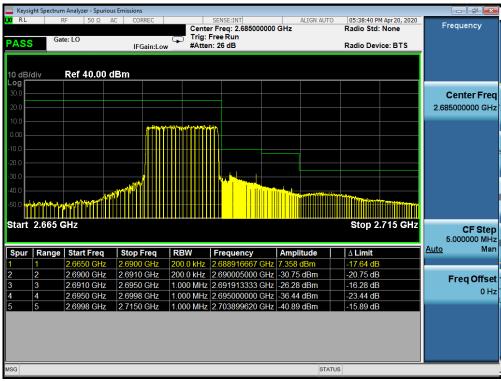
Plot 7-579. Upper ACP Plot (Band 41 PC2- 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U	PCTEST Mould biby part of @	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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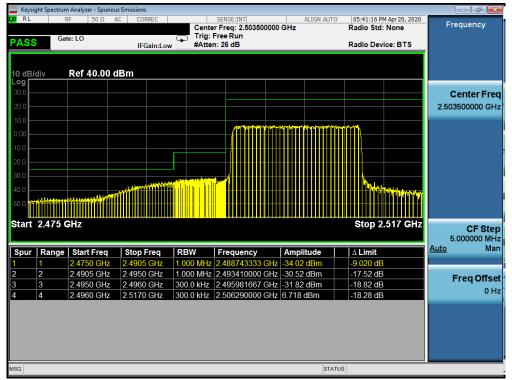
Plot 7-580. Lower ACP Plot at 2496 MHz (Band 41 PC2- 10.0MHz QPSK - Full RB Configuration)



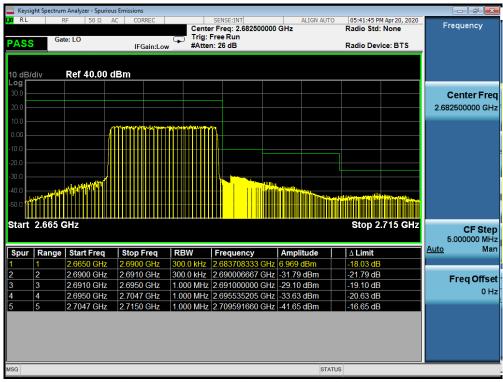
Plot 7-581. Upper ACP Plot (Band 41 PC2- 10.0MHz QPSK - Full RB Configuration)

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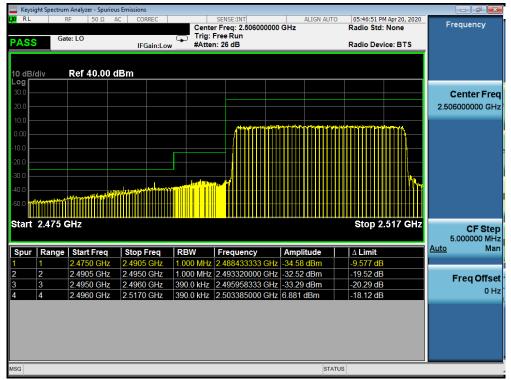
Plot 7-582. Lower ACP Plot at 2496 MHz (Band 41 PC2- 15.0MHz QPSK - Full RB Configuration)



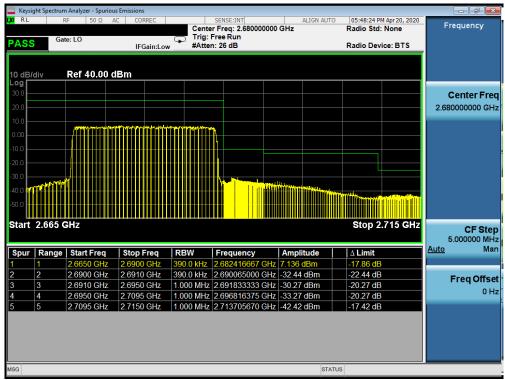
Plot 7-583. Upper ACP Plot (Band 41 PC2- 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Plot 7-584. Lower ACP Plot at 2496 MHz (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-585. Upper ACP Plot (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)

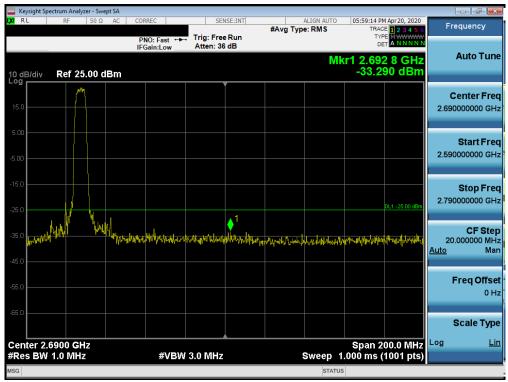
FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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Band 38

Keysight Spectrum Analyzer - Swep						
RL RF 50 Ω	AC CORREC	SENSE:INT	#Avg Type: F		6 PM Apr 20, 2020 RACE 1 2 3 4 5 6 TYPE M WWWWW DET A N N N N N	Frequency
0 dB/div Ref 25.00 dl	IFGain:Low	Atten: 36 dB		Mkr1 2.4 -35	93 8 GHz .639 dBm	Auto Tu
15.0					M	Center Fr 2.496000000 G
5.00						Start Fi 2.396000000 G
25.0					0.1 -25.00 dBm	Stop Fi 2.596000000 G
25.0 <mark>/4/////////////////////////////////</mark>	-Wildersia, Harvelander, I. and	1 111111111111111111111111111111111111	Anarador no particular da	eneroperation of the part	"Whatele and	CF S1 20.000000 M <u>Auto</u> M
.5.0						Freq Off 0
enter 2.4960 GHz				Spar	1 200.0 MHz	Scale Ty
Res BW 1.0 MHz	#VBW	3.0 MHz	Sv	veep 1.000 m	s (1001 pts)	

Plot 7-586. Lower Band Edge Plot (Band 38 - 5.0MHz QPSK - Full RB Configuration)



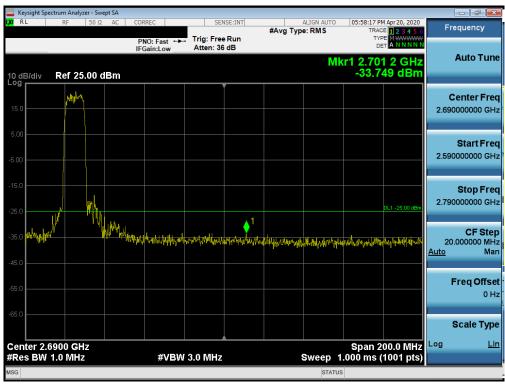
Plot 7-587. Upper Band Edge Plot (Band 38 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	AMSUNG	Approved by: Quality Manager
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Keysight Spectrum Analyzer - Swept SA					- P ×
XIRL RF 50Ω AC		SENSE:INT	ALIGN AUTO #Avg Type: RMS	06:01:47 PM Apr 20, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Frequency
10 dB/div Ref 25.00 dBm		n: 36 dB	MI	cr1 2.444 6 GHz -32.545 dBm	Auto Tune
15.0				jefniem 	Center Fred 2.496000000 GH;
-5.00					Start Fred 2.396000000 GH;
-15.0				DL1 -25.00 dBm	Stop Fred 2.596000000 GH;
-35.0	4./ครชาวที่ไม ^ะ ครูป-1.สาร _{าส} ไปสำห _{ารคร} ู	i,forgafarfarfiraille	Mylondyllowerpinorythellor	phan ^{ali} Talkat	CF Stej 20.000000 MH <u>Auto</u> Mar
55.0					Freq Offse 0 H
Center 2.4960 GHz #Res BW 1.0 MHz	#VBW 3.0 N	1Hz	Sweep 1	Span 200.0 MHz .000 ms (1001 pts)	Scale Type Log <u>Lir</u>
ISG			STATU		

Plot 7-588. Lower Band Edge Plot (Band 38 - 10.0MHz QPSK - Full RB Configuration)



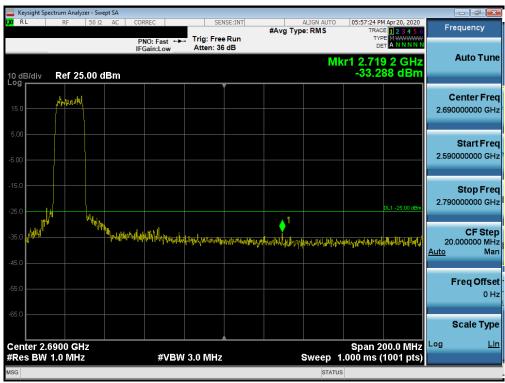
Plot 7-589. Upper Band Edge Plot (Band 38 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	ectrum Analyzer - Swept SA							
XU RL	RF 50 Ω AC	CORREC	SENSE:I	#Avg Ty	ALIGN AUTO	TRACI	Apr 20, 2020	Frequency
10 dB/div	Ref 25.00 dBm	PNO: Fast ↔ IFGain:Low	Trig: Free Ru Atten: 36 dB	n	Mk	^{D∈}	0 GHz 25 dBm	Auto Tune
15.0						ph _i e	lougy	Center Freq 2.496000000 GHz
-5.00								Start Freq 2.396000000 GHz
-15.0						M	DL1 -25 00 dBm	Stop Freq 2.596000000 GHz
-35.0	unnuhunnyhanhahanhah	ypyllogelogenolo-kanske	ndeillinder and a second	williphority. Arriver selection	dimente of out the first for		W. W.	CF Step 20.000000 MHz <u>Auto</u> Mar
-55.0								Freq Offset 0 Hz
-65.0	4960 GHz					Span 2	00.0 MHz	Scale Type
#Res BW		#VBW	3.0 MHz		Sweep 1.	000 ms ('	1001 pts)	
MSG					STATUS			

Plot 7-590. Lower Band Edge Plot (Band 38 - 15.0MHz QPSK - Full RB Configuration)



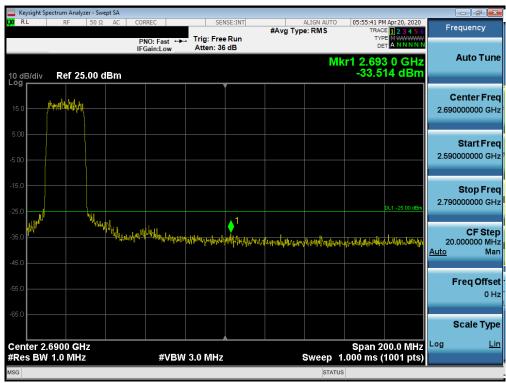
Plot 7-591. Upper Band Edge Plot (Band 38 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	n Analyzer - Swept SA						
LXV/RL F	RF 50 Ω AC	CORREC	SENSE:IN	T #Avg Tv	ALIGN AUTO	06:03:55 PM Apr 20, 2020 TRACE 1 2 3 4 5	6 Frequency
10 dB/div R	ef 25.00 dBm	PNO: Fast +>- IFGain:Low	Trig: Free Run Atten: 36 dB			TYPE MWWW DET A NNNN r1 2.490 0 GH -35.288 dBn	Z Auto Tune
15.0						ran an surper	Center Freq 2.496000000 GHz
-5.00							Start Freq 2.396000000 GHz
-15.0						DL1 -25.00 @B	Stop Freq 2.596000000 GHz
-35.0	Moteslavicenapolisiques	felterilmproducentert	hlpepedlinindersk	h _{er} arayyyabahillarbirnenher	der val dage av ett	workend M	CF Step 20.000000 MHz <u>Auto</u> Man
-55.0							Freq Offset 0 Hz
-65.0							Scale Type
Center 2.496 #Res BW 1.0		#VBW	3.0 MHz		Sweep 1.	Span 200.0 MH .000 ms (1001 pts	z Log <u>Lin</u> 5)
MSG					STATUS		

Plot 7-592. Lower Band Edge Plot (Band 38 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-593. Upper Band Edge Plot (Band 38 - 20.0MHz QPSK - Full RB Configuration)

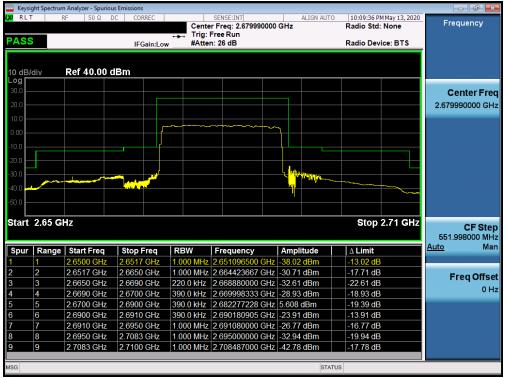
FCC ID: A3LSMN986U		MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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NR Band n41



Plot 7-594. Lower ACP Plot at 2496 MHz (n41 - 20.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)



Plot 7-595. Upper ACP Plot (Band 41 - 20.0MHz DFT-s-OFDM-QPSK - Full RB Configuration)

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