

EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 26 dB	Trig: Free Run Gate: LO IF Gain: Low	Center Freq: Radio Std: N	3.457500000 GHz Ione	Center Frequency 3.457500000 GHz	Settings
II Range Graph		Ref Value 30.00	dBm			CF Step 3.750000 MHz	
g						Man	
0		/		and the same of th		Freq Offset 0 Hz	
.0							
.0							
rt 3.431 GHz					Stop 3.469 GH	z	
ll Range Table 🛛 🔻							
			Measure Trac	æ	Trace 1		
			Trace Type		Trace Average (Active)		
	tart Freq Stop Freq	RBW	Frequency	Amplitude	∆Limit		
	4313 GHz 3.4450 GHz				-6.650 dB		
	4450 GHz 3.4490 GHz 4490 GHz 3.4500 GHz		.448860000 GHz .449776667 GHz		-15.96 dB -5.564 dB		
	4490 GHZ 3.4500 GHZ 4500 GHz 3.4688 GHz			-18.56 dBm 13.02 dBm	-5.564 dB -12.98 dB		

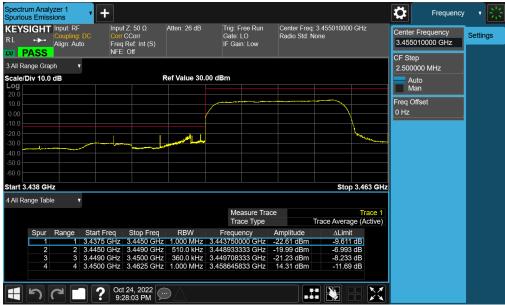
Plot 7-141. Lower ACP Plot (NR Band n77 - DoD Band – 15MHz DFT-s- π/2 BPSK – Full RB - SRS-1)



Plot 7-142. Upper ACP Plot (NR Band n77 - DoD Band – 15MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT			
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Plot 7-143. Lower ACP Plot (NR Band n77 - DoD Band – 10MHz CP-OFDM QPSK – Full RB - SRS-1)

Spectru Spuriou			•	+								\$	Frequency	- * 崇
RL	•••	Input: RF Coupling Align: Au		Corr Freq	CCorr Ref: Int (S)	Atten: 36 dB	Ga	g: Free Run te: LO Gain: Low	Center Fre Radio Std:	q: 3.545000000 None	GHz		Frequency 00000 GHz	Settings
3 All Rai				NFE:								CF Step 2.5000	0 00 MHz	
Scale/D	0iv 10.0	dB				ef Value 30.	00 dBm					Aut Ma		
20.0 10.0 0.00			~~~~									Freq Off 0 Hz	fset	
-10.0		/												
-30.0	****	)						L	1					
-40.0 -50.0														
-60.0														
Start 3. 4 All Rai										Stop	3.563 GHz			
4 Ali Rai	nge tabi	e v	l					Measure Tra Trace Type	ace	Trace Avera	Trace 1 ge (Active)			
	Spur 1	Range	Start		Stop Freq 3.5500 GHz	RBW		quency	Amplitude 15.60 dBm	∆Limi -10.40				
	2	2	3.5500	) GHz	3.5510 GHz 3.5550 GHz	360.0 kHz	3.5500	21667 GHz	-24.86 dBm -26.50 dBm	-11.86	dB			
	4				3.5625 GHz				-31.40 dBm					
	5			Oct 9:3	24, 2022 2:25 PM									

Plot 7-144. Upper ACP Plot (NR Band n77 - DoD Band – 10MHz CP-OFDM QPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT			
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RL ASS	RF	Analyzer - Spuri 50 Ω :: LO	DC C	CORREC	Trig:	SENSE:INT r Freq: 3.500010 Free Run	000 GHz	ALIGN AUTO	Radio St		Freque	ency
0 dB/div		Ref 30.00		IFGain:Lo	w #Atter	n: 32 dB			Radio D	evice: BTS		
. <b>og</b> 20.0 10.0											Cent 3.5000100	<b>er Fre</b> 000 G⊢
0.0												
10.0		<u></u>										
50.0 50.0	~~~~~~		••••	an an an a		<b>*^</b>						
tart 3.	325 G	Hz							Stop	3.575 GHz	25.000	F Ste
											A	
	ange	Start Freq	Stor	p Freq	RBW	Frequency	Amp	litude	∆ Limit		<u>Auto</u>	Ma
		Start Freq 3.3250 GHz		p Freq 50 GHz		Frequency 3.355000000 G			∆ Limit -26.83 (		Auto	M
pur   R			3.44	· ·	1.000 MHz 510.0 kHz	3.355000000 G	Hz -39.8 Hz -42.6	3 dBm 0 dBm	-26.83 c	<mark>IB</mark> IB		
i <b>pur   R</b> 1 2 3		3.3250 GHz 3.4450 GHz 3.4490 GHz	3.44 3.44 3.449	50 GHz 90 GHz 00 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.355000000 G 3.448893333 G 3.449956667 G	GHz -39.8 GHz -42.6 GHz -41.6	3 dBm 0 dBm 0 dBm	-26.83 c -29.60 c -28.60 c	IB IB		l Offs
5 <b>pur   R</b> 1 2		3.3250 GHz 3.4450 GHz	3.44 3.44 3.449	50 GHz 90 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.355000000 G	GHz -39.8 GHz -42.6 GHz -41.6	3 dBm 0 dBm 0 dBm	-26.83 c	IB IB		l Offs
i <b>pur   R</b> 1 2 3		3.3250 GHz 3.4450 GHz 3.4490 GHz	3.44 3.44 3.449	50 GHz 90 GHz 00 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.355000000 G 3.448893333 G 3.449956667 G	GHz -39.8 GHz -42.6 GHz -41.6	3 dBm 0 dBm 0 dBm	-26.83 c -29.60 c -28.60 c	IB IB		

Plot 7-145. Lower ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-2)

		n Analyzer - Spurio										
🗶 RL	R	RF 50 Ω	DC CO	RREC	Canto	SENSE:INT Freq: 3.50001	0000 011-	ALIGN AUTO	08:19:49 P Radio Std	M Oct 14, 2022	Frequ	encv
	C-4	te: I O				Free Run	0000 GHZ		Radio Sto	None		
PASS	Gat	ie: LO	IFO	Gain:Low		n: 26 dB			Radio Dev	ice: BTS		
		D-5 00 00	-ID									
10 dB// Log 🗖	aiv	Ref 30.00	авт									
20.0											Cen	ter Fre
10.0											3.500010	
											3.500010	000 GH
0.00		·										
10.0												
-20.0												
-30.0												
-40.0						and the second second						
-50.0												
-60.0												
0.0.0												
Start	3.425 C	GHz							Stop 3	.675 GHz		
												CF Stej 000 MH
Spur	Range	Start Freq	Stop	Freq	RBW	Frequency	Amp	litude	∆ Limit		<u>Auto</u>	Mai
Spur 1		Start Freq 3.4250 GHz	Stop 3.5500			Frequency 3.5266666667			∆ Limit -28.41 dB	3	<u>Auto</u>	Mai
1	1			) GHz	1.000 MHz		GHz -2.41	2 dBm				Mar n Offse
1 2	1 2	3.4250 GHz	3.5500	) GHz ) GHz	1.000 MHz 360.0 kHz	3.526666667	GHz -2.41 GHz -30.6	2 dBm 5 dBm	-28.41 dE	}		qOffse
<b>Spur</b> 1 2 3 4	1 2	3.4250 GHz 3.5500 GHz	3.5500 3.5510	) GHz ) GHz ) GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.526666667 3.550535000	GHz -2.41 GHz -30.6 GHz -42.9	2 dBm 5 dBm 1 dBm	-28.41 dE	3		Mar Citeration Offse 0 Hi
1 2 3	1 2 3	3.4250 GHz 3.5500 GHz 3.5510 GHz	3.5500 3.5510 3.5550	) GHz ) GHz ) GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.526666667 3.550535000 3.551746667	GHz -2.41 GHz -30.6 GHz -42.9	2 dBm 5 dBm 1 dBm	-28.41 dE -17.65 dE -29.91 dE	3		qOffse
1 2 3	1 2 3	3.4250 GHz 3.5500 GHz 3.5510 GHz	3.5500 3.5510 3.5550	) GHz ) GHz ) GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.526666667 3.550535000 3.551746667	GHz -2.41 GHz -30.6 GHz -42.9	2 dBm 5 dBm 1 dBm	-28.41 dE -17.65 dE -29.91 dE	3		qOffse
1 2 3	1 2 3	3.4250 GHz 3.5500 GHz 3.5510 GHz	3.5500 3.5510 3.5550	) GHz ) GHz ) GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.526666667 3.550535000 3.551746667	GHz -2.41 GHz -30.6 GHz -42.9	2 dBm 5 dBm 1 dBm	-28.41 dE -17.65 dE -29.91 dE	3		qOffse
1 2 3	1 2 3	3.4250 GHz 3.5500 GHz 3.5510 GHz	3.5500 3.5510 3.5550	) GHz ) GHz ) GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.526666667 3.550535000 3.551746667	GHz -2.41 GHz -30.6 GHz -42.9	2 dBm 5 dBm 1 dBm	-28.41 dE -17.65 dE -29.91 dE	3		qOffse
1 2 3	1 2 3	3.4250 GHz 3.5500 GHz 3.5510 GHz	3.5500 3.5510 3.5550	) GHz ) GHz ) GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.526666667 3.550535000 3.551746667	GHz -2.41 GHz -30.6 GHz -42.9	2 dBm 5 dBm 1 dBm	-28.41 dE -17.65 dE -29.91 dE	3		qOffse
1 2 3	1 2 3	3.4250 GHz 3.5500 GHz 3.5510 GHz	3.5500 3.5510 3.5550	) GHz ) GHz ) GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.526666667 3.550535000 3.551746667	GHz -2.41 GHz -30.6 GHz -42.9	2 dBm 5 dBm 1 dBm	-28.41 dE -17.65 dE -29.91 dE -28.68 dE	3		qOffse

Plot 7-146. Upper ACP Plot (NR Band n77 - DoD Band – 100MHz CP-OFDM QPSK – Full RB - SRS-2)

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Plot 7-147. Lower ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-3)

ASS	RF Gate: LO			ns DRREC Gain:Lo	Trig:	SENSE:INT er Freq: 3.5000 Free Run en: 26 dB	0000 GHz	ALIGN AUTO	Radio St	PM Oct 21, 2022 d: None evice: BTS	Frequency
0 dB/div .og	Ref	30.00	dBm								
20.0											Center Fre 3.500010000 GH
0.00 10.0											
20.0							~^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		man		
50.0											
0.0											
	25 GHz								Stop	3.675 GHz	CF Ste 25.000000 M
tart 3.4		rt Freq	Stop	Freq	RBW	Frequency	Am	olitude	Stop	3.675 GHz	
tart 3.4	nge Star	rt Freq 50 GHz	Stop			Frequency					25.000000 M
tart 3.4	inge Star 3.42			0 GHz	1.000 MHz		GHz 2.58	7 dBm	∆ Limit	B	25.000000 M <u>Auto</u> M
tart 3.4 Spur   Ra	inge Star 3.42 3.55	50 GHz	3.550	0 GHz 0 GHz	1.000 MHz 360.0 kHz	3.546458333	GHz 2.58 GHz -38.8	7 dBm 35 dBm	∆ Limit -23.41 d	B B	25.000000 M <u>Auto</u> M Freq Offs
tart 3.4 Spur Ra	inge Star 3.42 3.55 3.55	50 GHz 00 GHz 10 GHz	3.550 3.551 3.555	0 GHz 0 GHz 0 GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.546458333 3.550668333 3.551213333	GHz 2.58 GHz -38.8 GHz -38.2	7 dBm 35 dBm 28 dBm	∆ Limit -23.41 d -25.85 d -25.28 d	<mark>В</mark> В В	25.000000 M <u>Auto</u> M Freq Offs
tart 3.4	inge Star 3.42 3.55 3.55	50 GHz 00 GHz	3.550 3.551	0 GHz 0 GHz 0 GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.546458333 3.550668333	GHz 2.58 GHz -38.8 GHz -38.2	7 dBm 35 dBm 28 dBm	∆ Limit -23.41 d -25.85 d	<mark>В</mark> В В	25.00000 M

Plot 7-148. Upper ACP Plot (NR Band n77 - DoD Band - 100MHz DFT-s-OFDM π/2 BPSK - Full RB - SRS-3)

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RL ASS	RF Gate: LO	50 Ω [	00 00	ORREC	Trig:	SENSE:INT Freq: 3.5000 Free Run n: 32 dB	10000 G	ALIGN AUT	Radio St	PM Oct 21, 2022 d: None	Frequency
) dB/div	Ref	30.00 c		Gain:Lo	w #Atte	n. 32 dB			Radio Di	evice. B 13	
0.0											Center Fre 3.500010000 GF
0.0											
	and the second	Langen Barrier Marrier	~^~~~	ale U Vale and and	- Aller and a sub-	<b>~~</b>				an marger	
tart 3.3	25 GHz								Stop	3.575 GHz	CF Ste 25.00000 MH
Spur   Ra	nge   Start	Freq	Stop	Freq	RBW	Frequency		Amplitude	∆ Limit		<u>Auto</u> Ma
1	3.325	60 GHz	3.445	0 GHz	1.000 MHz	3.443000000	GHz -	35.07 dBm	-22.07 (	IB	
2	3.445	60 GHz	3.449	0 GHz	510.0 kHz	3.447973333	GHz -	36.65 dBm	-23.65 0	B	Freq Offs
3	3.449	0 GHz	3.450	0 GHz	360.0 kHz	3.449953333	GHz -	37.52 dBm	-24.52 (	В	· · · · · · · · · · · · · · · · · · ·
4	3.450	0 GHz	3.575	0 GHz	1.000 MHz	3.470208333	GHz 1	.137 dBm	-24.86 0	B	01

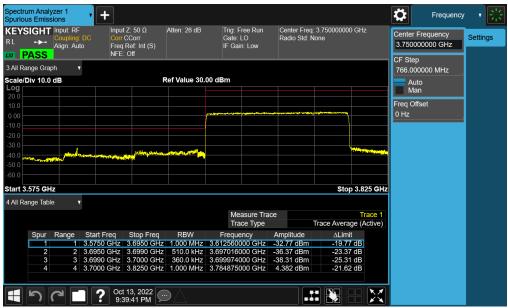
Plot 7-149. Lower ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-4)

ASS	Gate			DRREC	Trig:	SENSE:INT r Freq: 3.50001 Free Run n: 26 dB	0000 GHz	ALIGN AUTO	08:57:02 P Radio Std: Radio Dev		Frequency
0 dB/div	/	Ref 30.00									
20.0 10.0 0.00											Center Fre 3.500010000 GF
10.0 20.0											
10.0 10.0						V	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	مرواليا <sup>عر</sup> كوي <sup>ير ورور والرور ورور و</sup>	a	-	
50.0									<b>0</b> 4 0	.675 GHz	
	105 0								Ston 4	h/h GHZ	
tart 3.	.425 G	iHz							otop o		25.000000 M
		Hz Start Freq	Stop	Freq	RBW	Frequency		litude	∆ Limit		25.000000 M
	Range					Frequency 3.467083333					25.000000 M
spur   F	Range	Start Freq	3.550	0 GHz	1.000 MHz		GHz 1.128	dBm	∆ Limit	3	25.000000 M <u>Auto</u> M
Spur   F	Range	Start Freq 3.4250 GHz	3.550 3.551	0 GHz 0 GHz	1.000 MHz 360.0 kHz	3.467083333	GHz 1.128 GHz -38.7	8 dBm 8 dBm	∆ Limit -24.87 dB		25.000000 M <u>Auto</u> M Freq Offs
Spur F 1 2	Range	<b>Start Freq</b> 3.4250 GHz 3.5500 GHz	3.550 3.551	0 GHz 0 GHz 0 GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.467083333 3.550058333	GHz 1.128 GHz -38.7 GHz -39.4	8 dBm 8 dBm 8 dBm	Δ Limit -24.87 dB -25.78 dB	3 3 3	25.000000 M <u>Auto</u> M Freq Offs
1 2 3	Range	<b>Start Freq</b> 3.4250 GHz 3.5500 GHz 3.5510 GHz	3.550 3.551 3.555	0 GHz 0 GHz 0 GHz	1.000 MHz 360.0 kHz 510.0 kHz	3.467083333 3.550058333 3.551093333	GHz 1.128 GHz -38.7 GHz -39.4	8 dBm 8 dBm 8 dBm	Δ Limit -24.87 dB -25.78 dB -26.48 dB	3 3 3	CF Ste 25.00000 M Auto M Freq Offs 0

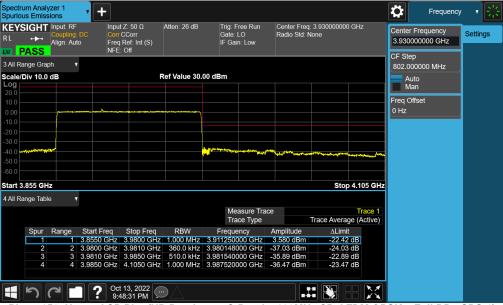
Plot 7-150. Upper ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-4)

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Plot 7-151. Lower ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



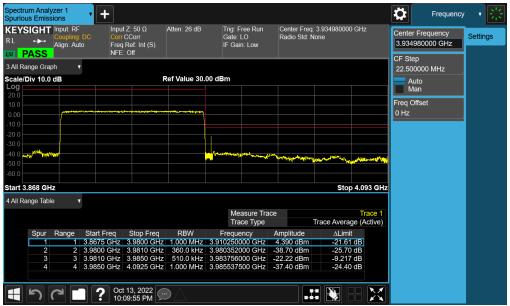
Plot 7-152. Upper ACP Plot (NR Band n77 - C-Band – 100MHz CP-OFDM QPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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PASS	Input: RF Coupling: I Align: Auto	DC Corr C	Corr Ref: Int (S)	Atten: 26 dB	Trig: F Gate: I IF Gair		Center Freq: Radio Std: N		GHz	Center Free 3.7450200		Settings
All Range Gra	iph 🔻		01	_		_		_		CF Step 22.500000	MHz	
ale/Div 10.0	dB		R	ef Value 30.0	00 dBm					Auto		
<b>bg</b>										Man		
0.0							***			Freq Offset 0 Hz		
	ň								the state of the s			
0.0	human		and the Martin and the second	the second second								
0.0												
art 3.588 GI	lz							Stop	3.813 GHz			
All Range Tab	le v											
					Mea	asure Trad	æ		Trace 1			
					Tra	се Туре		Trace Averaç	ge (Active)			
Spur	Range		Stop Freq	RBW	Freque		Amplitude	∆Limit				
1		3.5875 GHz						-21.35				
2		3.6950 GHz					-24.18 dBm	-11.18				
3		3.6990 GHz 3.7000 GHz					-36.72 dBm 4.863 dBm	-23.72 -21.14				

Plot 7-153. Lower ACP Plot (NR Band n77 - C-Band – 90MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



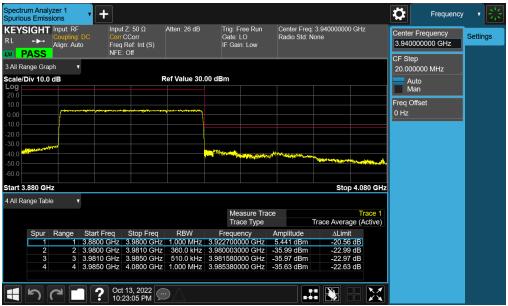
Plot 7-154. Upper ACP Plot (NR Band n77 - C-Band – 90MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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All Range Graph ale/Div 10.0 dE	٣		Off		IF Gair	LO n: Low	Radio Std: N	one			equency 0000 GHz	Settings
										20.00000	0 MHz	
og 👘	3		R	ef Value 30.0	00 dBm					Auto		
0.0										Man		
							والبدق الاستأسار الارد العيد المار			Freq Offse 0 Hz	et	
00										0112		
0.0												
0.0	. Arteriory and the	and the second second	the stand and the stand of the	and the second states					a second s			
0.0	<b>N</b>											
art 3.600 GHz								Stop	3.800 GHz			
All Range Table												
an tango tablo					Ma	asure Trac			Trace 1			
						ice Type		Trace Averac				
Spur R	ange Sta	art Freg	Stop Freq	RBW	Freque		Amplitude	∆Limit				
1				1.000 MHz				-20.45				
2				510.0 kHz			-36.13 dBm	-23.13				
3				360.0 kHz			-36.93 dBm	-23.93				
4	4 3.7	000 GHz 3	8.8000 GHz	1.000 MHz	3.7518000	000 GHz	5.217 dBm	-20.78	dB			

Plot 7-155. Lower ACP Plot (NR Band n77 - C-Band – 80MHz CP-OFDM π/2 BPSK – Full RB - SRS-1)



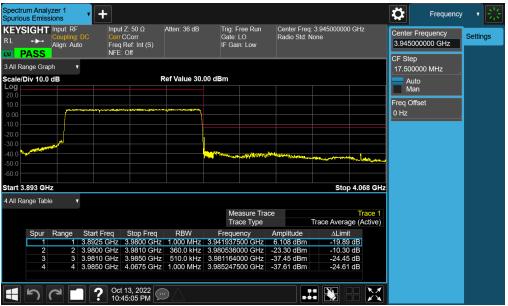
Plot 7-156. Upper ACP Plot (NR Band n77 - C-Band – 80MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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	Input: RF Coupling: D Align: Auto	C Corr C	Corr Ref: Int (S)	Atten: 26 dB	Trig: Fi Gate: L IF Gair		Center Freq Radio Std: N	: 3.735000000 None	GHz	3.73500	requency 00000 GHz	Settings
II Range Gra	ph 🔻									CF Step 17.5000	000 MHz	
ale/Div 10.0	dB		R	ef Value 30.	00 dBm					Auto		
<b>)</b> 0.0										Mar	i	
).0										Freq Offs	set	
					/					0 Hz		
0.0												
0.0								Ì				
).0				wayter water								
				A REAL PROPERTY AND A REAL					and the state of t			
0.0	Annal and a state of the second state of the s	and the second s							and the second se			
0.0	American and a second a								,,,,,			
	lz							Stop				
0.0 art 3.613 GH								Stop	3.788 GHz			
					Moo			Stop	3.788 GHz			
0.0 art 3.613 GH						asure Trac			3.788 GHz Trace 1			
0.0 art 3.613 GH	le v	Start Freq	Stop Freq	RBW		се Туре		Stop Trace Averag ∆Limit	3.788 GHz Trace 1 ge (Active)			
).0 art 3.613 GH MI Range Tabl Spur 1	le v Range 1	.6125 GHz	Stop Freq 3.6950 GHz	RBW 1.000 MHz	Trac Freque 3.6931025	ce Type ncy 00 GHz	Amplitude -34.97 dBm	Trace Averag ∆Limit -21.97	3.788 GHz Trace 1 ge (Active) dB			
0.0 art 3.613 GH NI Range Tabl Spur 1 2	Range 2 2 3	.6125 GHz .6950 GHz	Stop Freq 3.6950 GHz 3.6990 GHz	RBW 1.000 MHz 510.0 kHz	Trac Freque 3.6931025 3.6988080	ce Type ncy 00 GHz 00 GHz	Amplitude -34.97 dBm -37.64 dBm	Trace Averag ∆Limit -21.97 -24.64	3.788 GHz Trace 1 je (Active) dB dB			
0.0 art 3.613 GH NI Range Tabl Spur 1 2 3	le <b>Range</b>	.6125 GHz .6950 GHz .6990 GHz	Stop Freq 3.6950 GHz 3.6990 GHz 3.7000 GHz	RBW 1.000 MHz 510.0 kHz 360.0 kHz	Trac Freque 3.6931025 3.6988080 3.6990260	ce Type ncy 00 GHz 00 GHz 00 GHz	Amplitude -34.97 dBm -37.64 dBm -37.66 dBm	Trace Averag	3.788 GHz Trace 1 ge (Active) dB dB dB			
0.0 art 3.613 GH NI Range Tabl Spur 1 2	le <b>Range</b>	.6125 GHz .6950 GHz	Stop Freq 3.6950 GHz 3.6990 GHz 3.7000 GHz	RBW 1.000 MHz 510.0 kHz 360.0 kHz	Trac Freque 3.6931025 3.6988080 3.6990260	ce Type ncy 00 GHz 00 GHz 00 GHz	Amplitude -34.97 dBm -37.64 dBm	Trace Averag ∆Limit -21.97 -24.64	3.788 GHz Trace 1 ge (Active) dB dB dB			

Plot 7-157. Lower ACP Plot (NR Band n77 - C-Band – 70MHz CP-OFDM QPSK – Full RB - SRS-1)



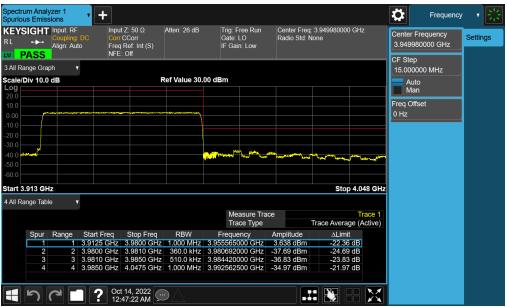
Plot 7-158. Upper ACP Plot (NR Band n77 - C-Band – 70MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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EYSIGHT Input: RF   Coupling: DC   Align: Auto	Input Z: 50 Ω A Corr CCorr Freq Ref: Int (S) NFE: Off	tten: 26 dB	Trig: Free Run Gate: LO IF Gain: Low	Center Freq: 3.730 Radio Std: None	020000 GHz	Frequency Center Frequency 3.730020000 GHz	Settings
Il Range Graph	Nii 2. Oli					CF Step 15.000000 MHz	
ale/Div 10.0 dB	Re	f Value 30.00 d	1Bm			Auto Man	
						Freq Offset 0 Hz	
0.0							
0.0		Jana Maria Maria			hy were and a star		
0.0					Stop 3.778 GHz		
Il Range Table 🔹 🔻							
I Range Table 🛛 🔻			Measure Trace Trace Type		Trace 1 Average (Active)		
Spur Range Star	Freq Stop Freq	RBW	Trace Type Frequency	Trace . Amplitude	Average (Active) ∆Limit		
Spur Range Star	25 GHz 3.6950 GHz	.000 MHz 3.0	Trace Type Frequency 690287500 GHz	Trace . Amplitude -34.12 dBm	Average (Active) ∆Limit -21.12 dB		
Spur Range Star 1 1 3.622 2 2 3.699 3 3 3.699		1.000 MHz 3.0 510.0 kHz 3.0 360.0 kHz 3.0	Trace Type     Frequency	Trace . Amplitude -34.12 dBm -36.13 dBm -37.04 dBm	Average (Active) ∆Limit		

Plot 7-159. Lower ACP Plot (NR Band n77 - C-Band – 60MHz CP-OFDM QPSK – Full RB - SRS-1)



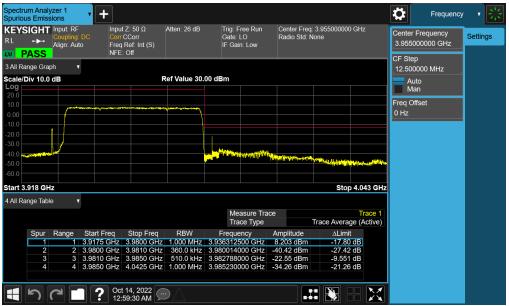
Plot 7-160. Upper ACP Plot (NR Band n77 - C-Band – 60MHz CP-OFDM QPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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	ut: RF upling: DC gn: Auto	Input Z: Corr CC Freq Re NFE: Of	orr f: Int (S)	Atten: 26 dB	Gate: I	ree Run LO n: Low	Center Freq Radio Std: N	: 3.725010000 None	) GHz	Center Fr 3.72501	equency 0000 GHz	Settings
II Range Graph	v									CF Step 12.5000	00 MHz	
ale/Div 10.0 dB			R	ef Value 30.0	00 dBm					Auto		
<b>g</b>										Man		
										Freq Offs	et	
00										0 Hz		
		Circles and the second	and a stand of the	assessment better					here west ward			
.0		Nue										
rt 3.638 GHz								Stor	3.763 GHz			
Il Range Table	•							0.01				
li Raliye Table	· ·					asure Trac						
						asure Trac ce Type	_	Trace Average	Trace 1			
Spur Ra	nge Star	Freg S	top Freg	RBW	Freque		Amplitude	ALimi				
				1.000 MHz				-24.58				
2				510.0 kHz			-35.41 dBm	-22.41	dB			
3				360.0 kHz			-36.77 dBm	-23.77				
	4 3 700	0 GHz 3.	7625 GHz	1.000 MHz	3.7385625	500 GHz	4.210 dBm	-21.79	dB			

Plot 7-161. Lower ACP Plot (NR Band n77 - C-Band – 50MHz CP-OFDM QPSK – Full RB - SRS-1)



Plot 7-162. Upper ACP Plot (NR Band n77 - C-Band – 50MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT	Approved by: Technical Manager
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EYSIGHT L ++ Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S)	Atten: 26 dB	Trig: Free Run Gate: LO IF Gain: Low	Center Freq: Radio Std: N	: 3.720000000 Ione	GHz	Frequen Center Frequency 3.72000000 GHz	cy v 🛃
All Range Graph	NFE: Off	tef Value 30.00	dBm				CF Step 10.000000 MHz	
og 0.0 0.0							Man Freq Offset	
.00 .0 .0							0 Hz	
0.0	an manager and the state of the					ang gang hall and a gang hall		
0.0 art 3.650 GHz					Stop	3.750 GHz		
All Range Table			Measure Tra			Trace 1		
	rt Freq Stop Freq	RBW	Trace Type Frequency	Amplitude	Trace Averag ∆Limit			
2 2 3.69 3 3 3.69	500 GHz   3.6950 GHz     550 GHz   3.6990 GHz     990 GHz   3.7000 GHz	510.0 kHz 3 360.0 kHz 3	3.695332000 GHz 3.699933000 GHz	-34.43 dBm -35.09 dBm	-18.82 -21.43 -22.09	dB dB		
4 4 3.70	000 GHz 3.7500 GHz	1.000 MHz 3	3.729300000 GHz	5.562 dBm	-20.44	dB		
ットー	? Oct 14, 2022 1:10:58 AM	$\supset \bigtriangleup$						

Plot 7-163. Lower ACP Plot (NR Band n77 - C-Band – 40MHz CP-OFDM QPSK – Full RB - SRS-1)

Spectru Spuriou	s Emiss	sions	+											Frequency	· • 😹
RL	IGHT ↔ ASS	Input: RF Coupling Align: Au	: DC to	Input Z: 50 Corr CCon Freq Ref: NFE: Off		Atten: 26 dB	Ga	ig: Free Run ate: LO Gain: Low		Center Freq: Radio Std: N	3.960000000 Ione	) GHz		Frequency 00000 GHz	Settings
3 All Rar	nge Grap					<u></u>							L	000 MHz	
Scale/D	IV 10.0	dB			Re	ef Value 30.	UU aBM						Aut Ma		
20.0 10.0 0.00				<b>1</b> 11111111111111111111111111111111111									Freq Of 0 Hz	fset	
-10.0															
-30.0	«بسا کسه»							مى مەرىپىيە يەرايۇلۇنۇرىيەل							
-50.0							a da la Urbi				,,	* Sincerestine forth			
-60.0 Start 3.9	20.01										Ctor	o 4.030 GHz			
4 All Rar											SIO	5 4.030 GHZ			
								Measure Ti Trace Type			Trace Avera	Trace 1 ge (Active)			
	Spur	Range	Start Fre		p Freq	RBW 1.000 MHz		quency		nplitude 928 dBm	∆Limi				
	1					1.000 MHZ 360.0 kHz				928 dBm I.91 dBm	-20.07 -21.91				
	3	3	3.9810 0	GHz 3.98	50 GHz	510.0 kHz	3.9812	96000 GHz	z -34		-21.07				
	4	4	3.9850 0	Hz 4.03	00 GHz	1.000 MHz	3.9908	50000 GHz	z -36	6.52 dBm	-23.52	2 dB			
	5	<b>C</b>	?	Oct 14, 2 1:11:43											

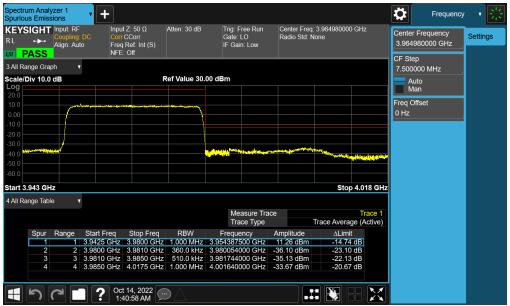
Plot 7-164. Upper ACP Plot (NR Band n77 - C-Band – 40MHz CP-OFDM QPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT			
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L +> PASS	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 26 dB	Trig: F Gate: I IF Gair		Center Freq: Radio Std: N	3.71502000 one	) GHz		requency 20000 GHz	Settings
All Range Gra	ph v				_				CF Step 7.50000		
ale/Div 10.0	dB		Ref Value 30.0	00 dBm					Aut		
<b>g</b>									Mai	n	
									Freq Off	set	
				<u> </u>					0 Hz	,	
			f								
							$\vdash$				
							<u>۲</u>	Within			
	Laborer 100 100 100 100 100 100 100 100 100 10	and the second designed in the second designed and the second designed and the second designed and the second d						a la constantina de la			
art 3.663 GH	Iz						Stop	3.738 GHz			
							Stop	3.738 GHz			
				Me	asure Trace	۰ ۲	Stop				
					asure Trace ce Type		<b>Stoj</b> Trace Avera	Trace 1			
II Range Tab	le <b>v</b>	Freg Stop Freg	RBW	Tra	се Туре			Trace 1 ge (Active)			
	Range Start	5 GHz 3.6950 GH	z 1.000 MHz	Tra Freque 3.6860950	ce Type ncy / 00 GHz -	Amplitude 36.47 dBm	Trace Avera ∆Limi -23.47	Trace 1 ge (Active) t			
1 2	Range Start 1 3.662 2 3.695	5 GHz 3.6950 GH 0 GHz 3.6990 GH	z 1.000 MHz z 510.0 kHz	Trac Freque 3.6860950 3.6988520	ce Type ncy / 00 GHz - 00 GHz -	Amplitude 36.47 dBm 35.23 dBm	Trace Avera ∆Limi -23.47 -22.23	Trace 1 ge (Active) t dB dB			
All Range Tab Spur 1	Range Start 1 3.662 2 3.695 3 3.699	5 GHz 3.6950 GH	z 1.000 MHz z 510.0 kHz z 360.0 kHz	Trae Freque 3.6860950 3.6988520 3.6993420	ce Type ncy / 00 GHz - 00 GHz - 00 GHz -	Amplitude 36.47 dBm 35.23 dBm	Trace Avera ∆Limi -23.47	Trace 1 ge (Active) t dB dB dB			

Plot 7-165. Lower ACP Plot (NR Band n77 - C-Band – 30MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



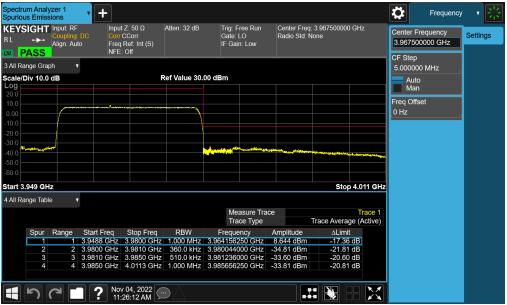
Plot 7-166. Upper ACP Plot (NR Band n77 - C-Band – 30MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT			
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EYSIGHT	sions		t Ζ: 50 Ω CCorr Ref: Int (S) : Off	Atten: 32 dB	Gate:	Free Run LO in: Low	Center Freq Radio Std: N	: 3.71250000 Ione	) GHz	Center Fi 3.71250 CF Step	Frequency requency 0000 GHz	Settings
All Range Gra	ph 🔻									5.00000	0 MHz	
ale/Div 10.0	dB		l	Ref Value 30.	00 dBm					Auto	)	
og										Man		
										Freq Offs 0 Hz	set	
0.0												
0.0	When the second second	Martin and Martin	and the second designed the second designed the second designed to t	www.welanling					Langer Hard Hilling and			
art 3.669 GH	z							Sto	o 3.731 GHz			
All Range Tabl	e v											
						asure Trad ace Type		Trace Avera	Trace 1			
Spur	Range	Start Freq	Stop Freq	RBW	Freque		Amplitude	nace Avera ∆Limi				
3pul				1.000 MHz				-19.99				
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.698420	000 GHz	-32.87 dBm	-19.87	′ dB			
3				360.0 kHz				-21.96				
4	4	3.7000 GHz	3.7313 GHz	1.000 MHz	3.714031	250 GHz	6.704 dBm	-19.30	) dB			
15			v 04, 2022 25:05 AM									

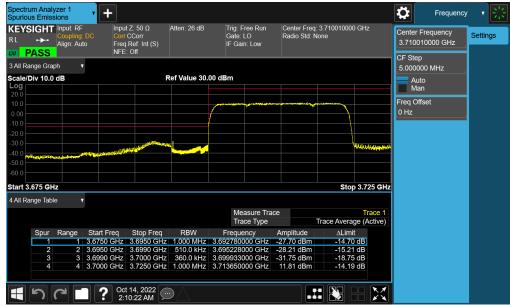
Plot 7-167. Lower ACP Plot (NR Band n77 - C-Band – 25MHz CP QPSK – Full RB - SRS-1)



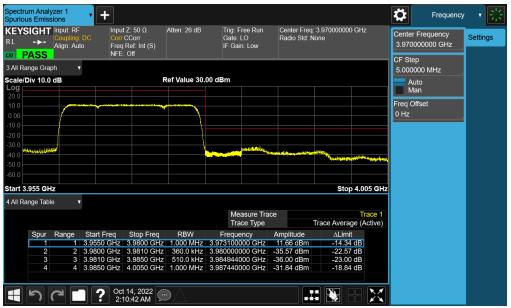
Plot 7-168. Upper ACP Plot (NR Band n77 - C-Band – 25MHz CP QPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		Approved by: Technical Manager		
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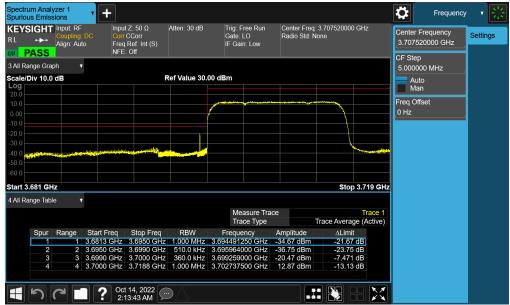
Plot 7-169. Lower ACP Plot (NR Band n77 - C-Band – 20MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB - SRS-1)



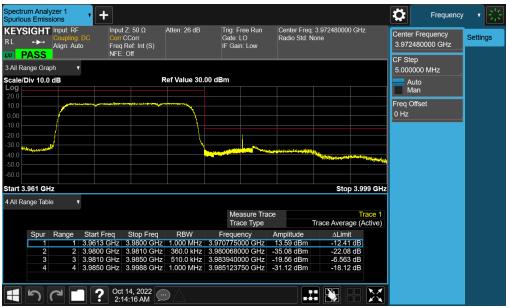
Plot 7-170. Upper ACP Plot (NR Band n77 - C-Band – 20MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT			
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Plot 7-171. Lower ACP Plot (NR Band n77 - C-Band – 15MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



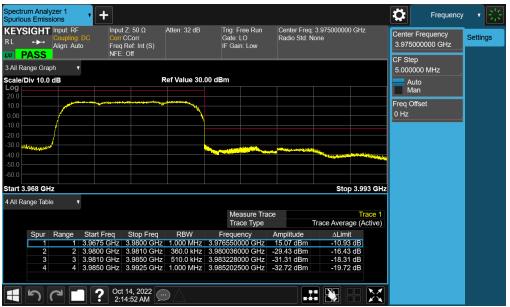
Plot 7-172. Upper ACP Plot (NR Band n77 - C-Band – 15MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT			
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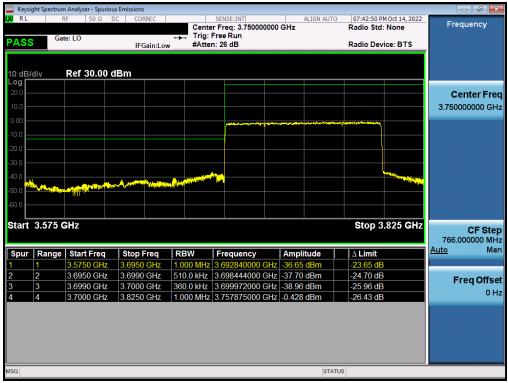
Plot 7-173. Lower ACP Plot (NR Band n77 - C-Band – 10MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB - SRS-1)



Plot 7-174. Upper ACP Plot (NR Band n77 - C-Band – 10MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

FCC ID: A3LSMS918U		PART 27 MEASUREMENT REPORT			
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Plot 7-175. Lower ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-2)



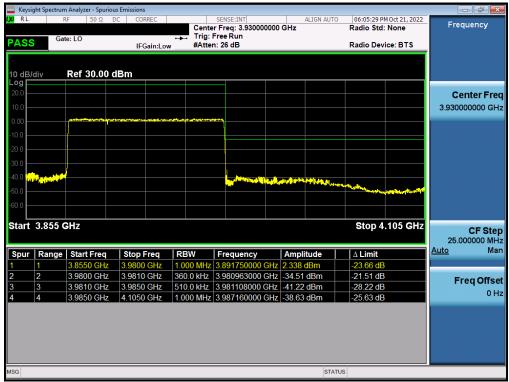
Plot 7-176. Upper ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-2)

FCC ID: A3LSMS918U		Approved by: Technical Manager	
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ASS	RF Gate: LO	50 Ω D0		REC	+++ Trig:	SENSE:INT Freq: 3.750 Free Run	000000	ALIGN GHz	AUTO	Radio Std		Frequ	lency
ASS			IFG	Gain:Low	#Atte	n: 26 dB				Radio Dev	vice: BTS		
0 dB/div .og	Ref	30.00 d	Bm										
20.0												Cer	nter Fre
0.0												3.75000	0000 GI
									-				
0.0													
0.0													
30.0													
40.0						4							
		الناجيه والمارد ومرجه	and the second second		- John Contraction	1					u u dite a di ga di la		
50.0 <b>14.</b>	AND ADDRESS OF												
60.0													
itart 3.	575 GHz									Stop 3	3.825 GHz		05.044
													CF Ste
						1	_	Amplitude		1.0.1.1.1.14		Auto	м
Spur   Ra	ange Star	Frea	Stop F	rea	RBW	Frequency		Amplitude		∆ Limit			
Spur   Ra		t Freq 50 GHz	Stop F 3.6950			Frequency 3.69344000				-24.19 dE	3		
1 2	3.575 3.695	60 GHz 60 GHz	3.6950 3.6990	GHz GHz	1.000 MHz 510.0 kHz	3.69344000 3.69877600	<mark>0 GHz</mark> 0 GHz	-37.19 dBm -38.83 dBm		-24.19 dE	3		og Offs
1	3.575 3.695 3.699	60 GHz	3.6950	GHz GHz GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.69344000	<mark>0 GHz</mark> 0 GHz 0 GHz	-37.19 dBm -38.83 dBm -39.60 dBm		-24.19 dE	3 3		e <b>q Offs</b> 0 I

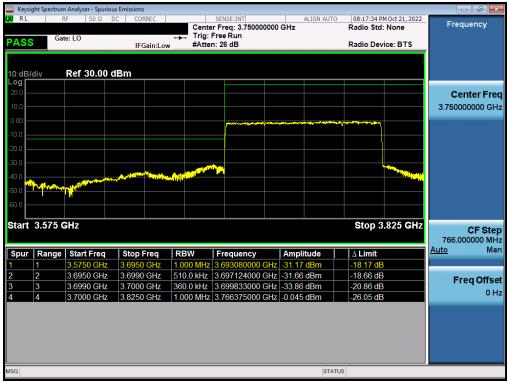
Plot 7-177. Lower ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-3)



Plot 7-178. Upper ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-3)

FCC ID: A3LSMS918U		Approved by: Technical Manager		
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Plot 7-179. Lower ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB - SRS-4)



Plot 7-180. Upper ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB - SRS-4)

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### 7.6 Peak-Average Ratio

#### **Test Overview**

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

#### The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

#### **Test Procedure Used**

ANSI C63.26-2015 - Section 5.2.3.4

#### Test Settings

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

### Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

#### Test Notes

The Peak to Average Ratio was only measured on the antenna (SRS-1) with the highest power for each band.

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## NR Band n77 (PC2) - DoD Band



Plot 7-181. PAR Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-182. PAR Plot (NR Band n77 - DoD Band – 100MHz CP-OFDM QPSK - Full RB)

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Plot 7-183. PAR Plot (NR Band n77 - DoD Band – 100MHz CP-OFDM 256-QAM - Full RB)



Plot 7-184. PAR Plot (NR Band n77 - DoD Band – 90MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-185. PAR Plot (NR Band n77 - DoD Band – 90MHz CP-OFDM QPSK - Full RB)



Plot 7-186. PAR Plot (NR Band n77 - DoD Band – 90MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-187. PAR Plot (NR Band n77 - DoD Band – 80MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-188. PAR Plot (NR Band n77 - DoD Band – 80MHz CP-OFDM QPSK - Full RB)

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Plot 7-189. PAR Plot (NR Band n77 - DoD Band – 80MHz CP-OFDM 256-QAM - Full RB)



Plot 7-190. PAR Plot (NR Band n77 - DoD Band – 70MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-191. PAR Plot (NR Band n77 - DoD Band – 70MHz CP-OFDM QPSK - Full RB)



Plot 7-192. PAR Plot (NR Band n77 - DoD Band – 70MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-193. PAR Plot (NR Band n77 - DoD Band – 60MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-194. PAR Plot (NR Band n77 - DoD Band – 60MHz CP-OFDM QPSK - Full RB)

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Plot 7-195. PAR Plot (NR Band n77 - DoD Band – 60MHz CP-OFDM 256-QAM - Full RB)



Plot 7-196. PAR Plot (NR Band n77 - DoD Band – 50MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-197. PAR Plot (NR Band n77 - DoD Band – 50MHz CP-OFDM QPSK - Full RB)



Plot 7-198. PAR Plot (NR Band n77 - DoD Band – 50MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-199. PAR Plot (NR Band n77 - DoD Band – 40MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-200. PAR Plot (NR Band n77 - DoD Band – 40MHz CP-OFDM QPSK - Full RB)

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Plot 7-201. PAR Plot (NR Band n77 - DoD Band – 40MHz CP-OFDM 256-QAM - Full RB)



Plot 7-202. PAR Plot (NR Band n77 - DoD Band – 30MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-203. PAR Plot (NR Band n77 - DoD Band – 30MHz CP-OFDM QPSK - Full RB)



Plot 7-204. PAR Plot (NR Band n77 - DoD Band – 30MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-205. PAR Plot (NR Band n77 - DoD Band – 25MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-206. PAR Plot (NR Band n77 - DoD Band – 25MHz CP-OFDM QPSK - Full RB)

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Plot 7-207. PAR Plot (NR Band n77 - DoD Band – 25MHz CP-OFDM 256-QAM - Full RB)



Plot 7-208. PAR Plot (NR Band n77 - DoD Band – 20MHz DFT-s-OFDM π/2 BPSK - Full RB)

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