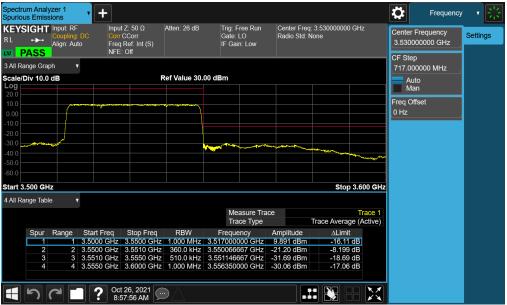


YSIGHT Input: RF ← ← Coupling: DC Align: Auto	Input Z: 50 Ω Atten: 26 dB Corr CCorr Freq Ref: Int (S) NFE: Off	Trig: Free Run Gate: LO IF Gain: Low	Center Freq: 3 470000000 GHz Radio Std: None	Center Frequency 3.47000000 GHz Settings
ll Range Graph 🔹 🔻				CF Step 717.000000 MHz
ale/Div 10.0 dB	Ref Value 30	.00 dBm		Auto
g				Man
.0				Freq Offset 0 Hz
.0	and a state of the		No and the second second	
.0	Kard and the second			
rt 3.400 GHz			Stop 3.500 GH	7
Il Range Table				
in range table v		Measure Trace	Trace 1	
		Trace Type	Trace Average (Active)	
Spur Range Star	t Freg Stop Freg RBW		Amplitude <u>ALimit</u>	
1 1 3.400	00 GHz 3.4450 GHz 1.000 MHz	3.433375000 GHz -	31.11 dBm -18.11 dB	
2 2 3.44		z 3.448946667 GHz -3		
	90 GHz 3.4500 GHz 360.0 kHz	3.449980000 GHz -3		
3 3 3.449	00 GHz 3.5000 GHz 1.000 MHz	A 15150000 OIL	10.49 dBm -15.51 dB	

Plot 7-127. Lower ACP Plot (NR Band n77 (DoD) - 40MHz CP-OFDM-QPSK - Full RB - ANT F)



Plot 7-128. Upper ACP Plot (NR Band n77 (DoD) - 40MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U		PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 00 of 191
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YSIGHT Input: RF Coupling: Align: Auto PASS Align: Auto	DC Corr C	Corr Ref: Int (S)	Atten: 26 dB	Trig: Fr Gate: L IF Gair		Center Freq: Radio Std: N	3.465000000 Ione) GHz	3.4650	Frequency 00000 GHz	Settings
II Range Graph 🛛 🔻									CF Step 717.00) 0000 MHz	
ale/Div 10.0 dB		6	Ref Value 30.0	00 dBm					Aut		
g									Ma	n	
				/		******			Freq Off 0 Hz	fset	
		with marine						141			
.0 .0	Handon Martin and	14-25-18-28-28-28-28-28-28-28-28-28-28-28-28-28						and the second			
1.0 .0 .0 .0	an a						Stop	0 3.488 GHz			
0 1 1 1 1 1 1 1 1 1 1 1 1 1	the second s						Stop				
0 1 1 1 1 1 1 1 1 1 1 1 1 1	Hand Handler				asure Trac			3.488 GHz Trace 1			
0 Juni 1 Tomoria				Trac	се Туре		Trace Avera	o 3.488 GHz Trace 1 ge (Active)			
0	Start Freq	Stop Freq	RBW	Trac Freque	ce Type ncy	Amplitude	Trace Avera ∆Limi	o 3.488 GHz Trace 1 ge (Active) t			
I Ange Table		Stop Freq 3.4450 GHz	RBW 1.000 MHz	Trac Freque 3.4378500	ce Type ncy 000 GHz	Amplitude	Trace Avera	o 3.488 GHz Trace 1 ge (Active) t			
0	Start Freq 3.4125 GHz 3	Stop Freq 3.4450 GHz 3.4490 GHz 3.4490 GHz	RBW 1.000 MHz 510.0 kHz 360.0 kHz	Trac Freque 3.4378500 3.4481400 3.4499316	ce Type ncy 000 GHz 000 GHz 667 GHz	Amplitude -30.50 dBm	Trace Avera ∆Limi -17.50	Trace 1 ge (Active) t dB dB dB dB			

Plot 7-129. Lower ACP Plot (NR Band n77 (DoD) - 30MHz CP-OFDM-QPSK - Full RB - ANT F)

Spectru Spuriou			• +								\$	Frequency	- * 崇
RL	••••	Input: RF Coupling: Align: Aut	DC Corr to Free	t Z: 50 Ω CCorr Ref: Int (S)	Atten: 26 dB	Gate	Free Run : LO ain: Low	Center Freq: Radio Std: N	3.535000000 Ione) GHz		requency 00000 GHz	Settings
3 All Ra	ASS inge Gra		NFE								CF Step 717.000	0000 MHz	
Scale/I	Div 10.0	dB		_	Ref Value 30.	00 dBm					Aut Ma		
20.0											Freq Off 0 Hz	set	
-10.0													
-20.0 -30.0	10	mar											
-40.0	and) and a							and the second second	all and a start of the start of	and a specific and a second			
-50.0													
Start 3	.513 GH	z							Stor	3.588 GHz			
	inge Tabl		,										
							easure Tra ace Type		Trace Avera	Trace 1 ge (Active)			
	Spur	Range	Start Freq	Stop Freq 3.5500 GHz	RBW	Frequ		Amplitude 11.94 dBm	∆Limi -14.06				
	2	2		3.5500 GHz 3.5510 GHz				-28.88 dBm	-14.00				
	3	3	3.5510 GHz	3.5550 GHz 3.5875 GHz	510.0 kHz	3.552060	0000 GHz	-30.51 dBm -30.72 dBm	-17.51 -17.72				
	5	2		t 26, 2021 02:18 AM									

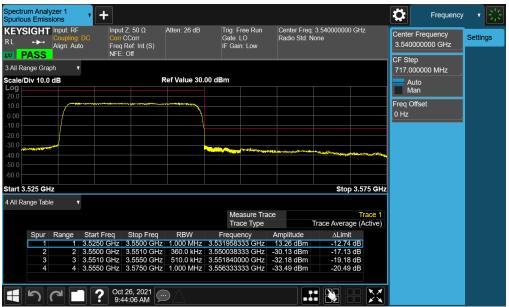
Plot 7-130. Upper ACP Plot (NR Band n77 (DoD) - 30MHz CP-OFDM-QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U		PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 01 of 191
1M2109090103-29.A3L	9/10/2021 - 11/10/2021	Portable Handset		Page 91 of 181
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CF Step 3 All Range Graph 3 All Range Graph 3 All Range Graph CG Step 2 All Cange Graph CF Step 7 7.000000 MHz Auto Man Freq Offset 0 Hz CF Step 7 Auto Man Freq Offset 0 Hz Start Step 7 Auto Man Freq Coffset 0 Hz Start Step 7 Auto Man Freq Offset 0 Hz Start Step 7 Auto Nan Freq Offset 0 Hz Start Freq 1 3.4250 GHz 3.4450 GHz 3.4450 GHz 3.44300000 GHz 3.44300000 GHz - 3.111 dBm - 18.11 dB - 18.11 dB		Input: RF Coupling: Align: Aut	DC Cor to Free	ut Z: 50 Ω r CCorr q Ref: Int (S) Off	Atten: 26 dB	Ga	g: Free Run te: LO Gain: Low		nter Freq: idio Std: N	3.460000000 ione) GHz		requency 00000 GHz	Settings
Org Man Preq Offset Hz Man Freq Offset Org Org Man Org Man Freq Offset Org Org Man Org	ll Range Gra				Ref Value 30.	00 dBm						717.000	0000 MHz	J
0.0 0	g													
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							• • • • • • • • • • • • • • • • • • •						set	
Measure Trace Trace 1 All Range Table Image Start Freq Stop 7:45 GHz Stop 3.475 GHz Image Start Freq Stop 3.475 GHz Spur Range Start Freq Stop Freq 1 1:34250 GHz 3:4450 GHz 3:4430 GHz 2 2:34450 GHz 3:400 GHz 5:400 Hz 3 3:4450 GHz 5:000 Hz 3:40990333 GHz -31:12 dBm 3 3:4450 GHz 3:000 Hz 3:404990333 GHz -31:11 dBm -18:11 dB 3 3:3:4450 GHz 5:000 Hz 5:000 Hz -3:05 dBm -1:05 dB														
Spur Range Start Freq Stop Freq RBW Frequency Amplitude ALlinit 1 1 3.4250 GHz 3.4450 GHz -31.12 dBm -18.12 dB 2 2 3.4450 GHz 3.4450 GHz -31.000 MHz -31.43766667 GHz -31.12 dBm -18.10 dB 3 3.4490 GHz 3.600 GHz 3.600 GHz 3.600 Hz -30.00 Hz -31.05 dBm -18.05 dB	.0													
Mil Range Table Measure Trace Trace 1 Measure Trace Trace 1 Trace Average (Active) Spur Range Start Freq Stop Freq RBW Frequency Amplitude ΔLimit 1 1 3.4250 GHz 3.4450 GHz 1.000 MHz 3.443766667 GHz -31.12 dBm -18.12 dB 2 2 3.4450 GHz 3.4490 GHz 510.0 kHz 3.44396000 GHz -31.11 dBm -18.11 dB 3 3 3.4490 GHz 3.400 GHz 3.449993333 GHz -31.05 dBm -18.05 dB														
Measure Trace Trace 1 Trace Type Trace Average (Active) Spur Range Start Freq Stop Freq RBW Frequency Amplitude ΔLimit 1 1 3.4250 GHz 3.4450 GHz 1.000 MHz 3.443766667 GHz -31.12 dBm -18.12 dB 2 2 3.4450 GHz 3.4400 GHz 510.0 KHz 3.449960333 GHz -31.11 dBm -18.10 dB 3 3.4490 GHz 3.4490 GHz 560.0 KHz 3.449993333 GHz -31.0 5 dBm -18.05 dB	rt 3.425 GI	lz								Stop	3.475 GHz			
Trace Type Trace Average (Active) Spur Range Start Freq Stop Freq RBW Frequency Amplitude ΔLimit 1 1 3.4250 GHz 3.4450 GHz 1.000 MHz 3.443766667 GHz -31.12 dBm -18.12 dB 2 2 3.4450 GHz 3.4400 GHz 510.0 kHz 3.449993333 GHz -31.11 dBm -18.10 dB 3 3 3.4490 GHz 3.400 GHz 360.0 kHz 3.449993333 GHz -31.0 dBm -18.05 dB	ll Range Tab	le 🔻												
Spur Range Start Freq Stop Freq RBW Frequency Amplitude ΔLimit 1 1 3.4250 GHz 3.4450 GHz 1.000 MHz 3.443766667 GHz -3.12 dBm -18.12 dB 2 2 3.4450 GHz 3.4490 GHz 510.0 kHz 3.448960000 GHz -3.11 dBm -18.11 dB 3 3 3.4490 GHz 3.4400 GHz 560.0 kHz 3.4499993333 GHz -31.05 dB							Measure Tra	ace			Trace 1			
1 1 3.4250 GHz 3.4450 GHz 1.000 MHz 3.443766667 GHz -31.12 dBm -18.12 dB 2 2 3.4450 GHz 3.4490 GHz 510.0 kHz 3.448360000 GHz -3111 dBm -18.11 dB 3 3 3.4490 GHz 3.4500 GHz 3.600 kHz 3.448999333 GHz -31.05 dBm -18.05 dB							Тгасе Туре			Trace Avera	ge (Active)			
2 2 3.4450 GHz 3.4490 GHz 510.0 kHz 3.448360000 GHz -31.11 dBm -18.11 dB 3 3 3.4490 GHz 3.4500 GHz 360.0 kHz 3.44993333 GHz -31.05 dBm -18.05 dB	Spur													
3 3 3.4490 GHz 3.4500 GHz 360.0 kHz 3.449993333 GHz -31.05 dBm -18.05 dB														
4 4 3.4500 GHz 3.4750 GHz 1.000 MHz 3.455125000 GHz 10.35 dBm -15.65 dB	4													

Plot 7-131. Lower ACP Plot (NR Band n77 (DoD) - 20MHz CP-OFDM-QPSK - Full RB - ANT F)



Plot 7-132. Upper ACP Plot (NR Band n77 (DoD) - 20MHz CP-OFDM-QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	PCTEST Prod to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 92 of 181
1M2109090103-29.A3L	9/10/2021 - 11/10/2021	Portable Handset		Fage 92 01 101
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EYSIGHT Coupling: DC Align: Auto	Input Ζ: 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 G Ione	Hz	Gate On Off	Trigger Gate
All Range Graph v ale/Div 10.0 dB		Ref Value 30.00	dBm				Gate View On Off	Source Gate Settings
0.0							Gate Delay 3.999 ms	Periodic Sync Sro
00							Gate Length 932.80 µs	Auto/ Holdoff
).0 0.0 0.0						^{ed} y-f-venue	Control Edge Level	
.0 Int 3.431 GHz					Stop 3	469 GHz	Gate Holdoff 208.6 µs	
Il Range Table V			Measure Trac	e		Trace 1	Auto Man	
	art Freq Stop Freq 313 GHz 3.4450 GHz	RBW 1.000 MHz 3.		Amplitude	Trace Average ∆Limit -17.34 dB		Gate Delay Compensation RBW Settled	
3 3.4	450 GHz 3.4490 GHz 490 GHz 3.4500 GHz 500 GHz 3.4688 GHz	360.0 kHz 3.	449930000 GHz		-18.48 dE -15.42 dE -11.63 dE	3	Gate View Sweep Time 7.6000 ms	
1901	Oct 26, 2021 9:50:57 AM	\mathbf{D}				X	Gate View Start Time 0.000 s	

Plot 7-133. Lower ACP Plot (NR Band n77 (DoD) - 15MHz CP-OFDM-QPSK – Full RB - ANT F)



Plot 7-134. Upper ACP Plot (NR Band n77 (DoD) - 15MHz CP-OFDM-QPSK – Full RB - ANT F)

FCC ID: A3LSMS906U	POINTEST Provid to be part of the element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 93 of 181
1M2109090103-29.A3L	9/10/2021 - 11/10/2021	Portable Handset		Fage 95 01 101
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	it: RF ipling: DC n: Auto	Corr C	Corr Ref: Int (S)	Atten: 26 dB	Gate:	ree Run LO n: Low	Center Freq: Radio Std: N	3.455000000 ione) GHz	Gate On Off	Trigger Gate
ul Range Graph ale/Div 10.0 dB	v			ef Value 30.0	00 d B m					Gate View On Off	Gate Source Gate Settings
g .0 .0										Gate Delay 3.999 ms	Periodic Sync Sr
0.0										Gate Length 932.80 µs	Auto/ Holdoff
0.0	gaarden of the second									Control Edge Level	
.0 rt 3.438 GHz								Stop	o 3.463 GHz	Gate Holdoff 208.6 μs	
ll Range Table	•					asure Trac			Trace 1	Auto Man Gate Delay	
Spur Rar			Stop Freq 3.4450 GHz	RBW 1.000 MHz	Freque		Amplitude	Trace Avera ∆Limi -16.33	t	Compensation RBW Settled	
2 3 4	3 3.4	4490 GHz	3.4500 GHz	510.0 kHz 360.0 kHz 1.000 MHz	3.4499866	667 GHz		-15.99 -13.12 -12.82	dB	Gate View Sweep Time 7.6000 ms	
って			26, 2021 5:03 AM							Gate View Start Til 0.000 s	me

Plot 7-135. Lower ACP Plot (NR Band n77 (DoD) - 10MHz CP-OFDM-QPSK – Full RB - ANT F)

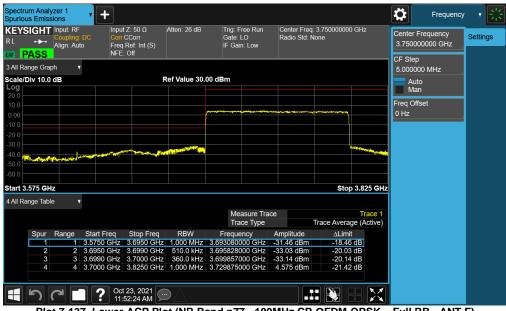
Spectrum Spurious	Emiss	ions	• +							‡	Trigger	• 影
RL RL	IGHT ·≁·	Input: RF Coupling: Align: Aut		t Ζ: 50 Ω ·CCorr • Ref: Int (S)	Atten: 26 dB	Gate:	ree Run LO in: Low	Center Freq: Radio Std: No	3.545000000 GHz one	Gate On		Trigger
LXI PA	ASS	gintia		Off						Off		Gate
3 All Ran	ge Grap	oh 🔻								Gate View On		Source
Scale/Di	iv 10.0	dB		F	Ref Value 30.	00 dBm				Off		Gate Settings
Log										Gate Delay		Periodic
10.0				and the second						3.999 ms		Sync Src
0.00		-								Gate Length	1	Auto/
-20.0		/								932.80 µs		Holdoff
-30.0						A COLORINA COLORINA	-	The conversion of the state of		Control		
-40.0										Edge Level		
-60.0										Gate Holdof	f	
Start 3.5	38 GH	7							Stop 3.563 GH		'	
4 All Ran										Auto Man		
							asure Trad		Trace 1			
	Spur	Range	Start Freg	Stop Freg	RBW	Freque		Amplitude	∆Limit	Compensati		
	0pui 1			3.5500 GHz				16.15 dBm	-9.849 dB	RBW Settle	:d ▼	
	2			3.5510 GHz				-22.06 dBm	-9.065 dB	Gate View S	Sweep	
	3			3.5550 GHz				-26.03 dBm	-13.03 dB	Time	·	
	4	4	3.5550 GHZ	3.5625 GHz	1.000 MHz	3.556725	JUU GHZ	-28.11 dBm	-15.11 dB	7.6000 ms		
	5	2		t 26, 2021 :06:56 AM						Gate View S 0.000 s	Start Time	

Plot 7-136. Upper ACP Plot (NR Band n77 (DoD) - 10MHz CP-OFDM-QPSK - Full RB - ANT F)

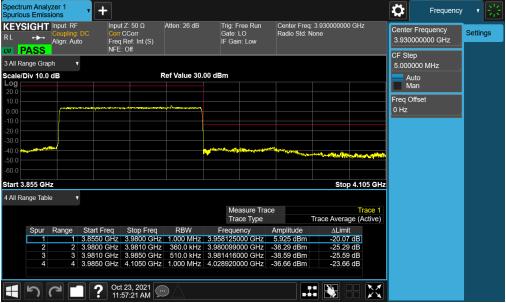
FCC ID: A3LSMS906U	Point to be part of the element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 94 of 181
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NR Band n77 (PC2) – C-Band – SRS-1 – ANT F



Plot 7-137. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - ANT F)



Plot 7-138. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	Poul to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 95 of 181
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SYSIGHT HIPUT: RF Coupling: DC Align: Auto	Input Z: 50 Ω Atten: 26 dB Corr CCorr Freq Ref: Int (S) NFE: Off		Center Freq: 3.745000000 Radio Std: None	C	enter Frequency .745000000 GHz	Settings
PASS Il Range Graph					F Step .000000 MHz	
ale/Div 10.0 dB g	Ref Value 30.	00 dBm			Auto Man	
0			······		eq Offset Hz	
.0						
.0						
rt 3.588 GHz Il Range Table 🔹 🔻			Stop	3.813 GHz		
		Measure Trace Trace Type	Trace Average	Trace 1 e (Active)		
1 1 3.587	t Freq Stop Freq RBW 75 GHz 3.6950 GHz 1.000 MHz	3.692850000 GHz -3				
	50 GHz 3.6990 GHz 510.0 kHz 90 GHz 3.7000 GHz 360.0 kHz 00 GHz 3.8125 GHz 1.000 MHz	3.699986000 GHz -3		зB		

Plot 7-139. Lower ACP Plot (NR Band n77 - 90MHz CP-OFDM-QPSK - Full RB - ANT F)

Spectrum Analyzer 1 Spurious Emissions	• +									Frequency	- * 影
KEYSIGHT Input: R L +++ Coup Align: IM PASS	ling: DC Co Auto Fre	ut Z: 50 Ω rr CCorr eq Ref: Int (S) E: Off	Atten: 26 dB	Gate:	Free Run LO in: Low	Center Freq: Radio Std: N) GHz	Center Fre 3.935000	· ·	Settings
3 All Range Graph	• •								CF Step 5.000000	MHz	
Scale/Div 10.0 dB		F	Ref Value 30.	00 dBm					Auto Man		
20.0									Freq Offse 0 Hz	ət	
-10.0											
-30.0											
Start 3.868 GHz							Stop	4.093 GHz			
All Range Table	•										
					easure Trae ace Type		Trace Avera	Trace 1 ge (Active)			
Spur Rang	e Start Freq	Stop Freq	RBW	Frequ		Amplitude 2.031 dBm	∆Limit				
2	1 3.8675 GH 2 3.9800 GH					-36.68 dBm	-23.97 -23.68				
3 4	3 3.9810 GH 4 3.9850 GH					-35.19 dBm -35.02 dBm	-22.19 -22.02				
50		ct 23, 2021 1:49:30 AM									

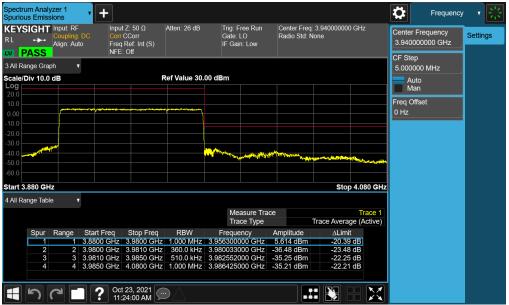
Plot 7-140. Upper ACP Plot (NR Band n77 - 90MHz CP-OFDM-QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	POTEST. Proud to be part of @ whereast	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 96 of 181
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	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NEF: Off	Atten: 26 dB	Trig: Fre Gate: Li IF Gain:	0	Center Freq: Radio Std: N	3.740000000 one	GHz	Center Fi 3.74000	requency 0000 GHz	Settings
PASS		NFL. UI	Ref Value 30.0	0 dBm					CF Step 5.00000		
g			Nel Vulue 50.0						Auto Man		
.0			/	*****	****	1).			Freq Offs 0 Hz	et	
.0		Approximentical States Property	ain and the second second					(Hernethelege			
.0											
rt 3.600 GH							Ctor	3.800 GHz			
							Stop	3.800 GHZ			
II Dongo Tobl	e v			Mea	sure Trac	2		Trace 1			
ll Range Tabi					e Type		Trace Average				
ll Range Tabl											
ll Range Tabl		t Freq Stop Freq		Frequer		Amplitude	∆Limit				
1	1 3.60	00 GHz 3.6950 GH	z 1.000 MHz	Frequer 3.69405000	00 GHz	35.80 dBm	∆Limit -22.80				
	1 3.60 2 3.69		z 1.000 MHz z 510.0 kHz	Frequer 3.69405000 3.69714800	00 GHz 00 GHz	-35.80 dBm -36.89 dBm	∆Limit	dB			

Plot 7-141. Lower ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - ANT F)



Plot 7-142. Upper ACP Plot (NR Band n77 - 80MHz CP-OFDM-QPSK - Full RB - ANT F)

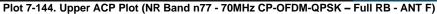
FCC ID: A3LSMS906U	Prode to be part of the element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 07 of 191
1M2109090103-29.A3L	9/10/2021 - 11/10/2021	Portable Handset		Page 97 of 181
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PASS	Input: RF Coupling: DC Align: Auto		Corr ef: Int (S)	Atten: 26 dB	Trig: F Gate: IF Gai		Center Freq: Radio Std: N	3.735000000 Ione) GHz		requency 00000 GHz	Settings
ll Range Gra										CF Step 5.00000		
le/Div 10.0	dB		R	ef Value 30.0	UU dBM					Auto Man		
.0 .0 00					f					Freq Offs 0 Hz	set	
.0 .0	with a state of the state of th	and the second	1 million					<u>ل</u> م	antercong an			
.0 rt 3.613 GI								Stop	o 3.788 GHz			
0 rt 3.613 GH	łz							Stop				
0 rt 3.613 GH	łz					asure Trac ce Type		Stop Trace Avera	Trace 1			
	lz le ▼ Range St		Stop Freq	RBW	Tra Freque	ce Type ency	Amplitude	Trace Avera ∆Limi	Trace 1 ge (Active) t			
0 rt 3.613 GH	Iz le v Range Sta 1 3.6 2 3.6	125 GHz 3 950 GHz 3	.6950 GHz .6990 GHz	RBW 1.000 MHz 510.0 kHz 360.0 kHz	Tra Freque 3.6693425 3.6970280	ce Type ency 500 GHz 500 GHz	-30.15 dBm -34.09 dBm	Trace Avera	Trace 1 ge (Active) t dB dB			

Plot 7-143. Lower ACP Plot (NR Band n77 - 70MHz CP-OFDM-QPSK - Full RB - ANT F)



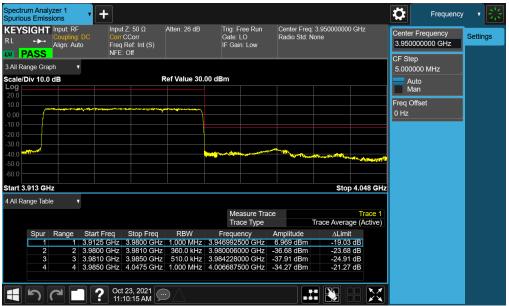


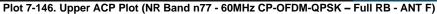
FCC ID: A3LSMS906U	PCTEST Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 98 of 181
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Align	GHT Input: RF Coupling: DC Align: Auto SS Input Z: 50 Ω Corr CCorr Freq Ref: Int (S NFE: Off		Atten: 26 dB	Trig: F Gate: I IF Gaii		Center Freq: Radio Std: N) GHz	Center Fr 3.73000	equency 0000 GHz	Setting
I Range Graph	• •		Ref Value 30.0	0 dBm					CF Step 5.00000		
			Ker value 30.0	UBIII					Auto Man		
0			/			ander of splitter and splitter by			Freq Offs 0 Hz	et	
								and the second			
.0 .0	A DESCRIPTION OF THE OWNER OF THE	and a state of the second	and the second se								
rt 3.623 GHz							Stop	o 3.778 GHz			
ll Range Table	▼										
					asure Trac ce Type		Trace Avera	Trace 1 de (Active)			
		Stop Freg	RBW	Freque		Amplitude	∆Limi	,			
Spur Ran						2444 d D m	-21.14	dB			
1	1 3.6225 GH	z 3.6950 GHz									
Spur Ran	1 3.6225 GH		510.0 kHz	3.6969200	00 GHz	-31.98 dBm	-18.98	3 dB			

Plot 7-145. Lower ACP Plot (NR Band n77 - 60MHz CP-OFDM-QPSK - Full RB - ANT F)





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PASS	Input: RF Coupling: DC Align: Auto		Corr Ref: Int (S)	Atten: 26 dB	Gate:	Free Run LO in: Low	Center Freq: Radio Std: N	3.725000000 Ione) GHz	Center F 3.7250	Setting	
Range Grap	h ▼					_				CF Step 5 0000) 00 MHz	
le/Div 10.0	dB		F	Ref Value 30.	00 dBm					Aut	0	
g 0										Ma	n	
0										Freq Off 0 Hz	fset	
0 0										L		-
			and the second					~~~	and the second second			
0	Mar and and a state of the stat	and the second	and the second designed and the second designed and the second designed and the second designed and the second	and the second				~	State of the second			
	the strength of the	and an										
								Stop	3.763 GHz			
o rt 3.638 GH	z							Stop	3.763 GHz			
0 t 3.638 GH	z				Me	easure Trac	De	Stop	3.763 GHz			
0 t 3.638 GH	z					easure Trac		Stop Trace Averag	Trace 1			
t 3.638 GH	Z e V		Stop Freq	RBW		асе Туре			Trace 1 ge (Active)			
t 3.638 GH Range Table Spur 1	z Range S 1 3.	tart Freq 6375 GHz 3	Stop Freq 3.6950 GHz	RBW 1.000 MHz	Tra Frequ 3.677290	ace Type ency 000 GHz	Amplitude -33.12 dBm	Trace Avera ∆Limi -20.12	Trace 1 ge (Active) t			
t 3.638 GH	z Range S 1 3. 2 3.	tart Freq 6375 GHz 3 6950 GHz 3	Stop Freq 3.6950 GHz 3.6990 GHz	RBW 1.000 MHz 510.0 kHz	Tra Frequ 3.677290 3.698712	ace Type ency 000 GHz 000 GHz	Amplitude -33.12 dBm -30.86 dBm	Trace Avera ∆Limi -20.12 -17.86	Trace 1 ge (Active) t dB dB			
t 3.638 GH I Range Table Spur 1	z Range S 1 3. 2 3 3. 3 3.	tart Freq 6375 GHz 3 6950 GHz 3 6990 GHz 3	Stop Freq 3.6950 GHz 3.6990 GHz 3.7000 GHz	RBW 1.000 MHz	Tra Frequ 3.677290 3.698712 3.699222	ace Type ency 000 GHz 000 GHz 000 GHz	Amplitude -33.12 dBm -30.86 dBm	Trace Avera ∆Limi -20.12	Trace 1 ge (Active) t dB dB dB			

Plot 7-147. Lower ACP Plot (NR Band n77 - 50MHz CP-OFDM-QPSK - Full RB - ANT F)

Spectru Spuriou				F										Ċ		Frequ	ency	- 米
RL	IGHT ·≁· ASS	Input: RF Coupling Align: Au		Corr	CCorr Ref: Int (S)	Atten: 26 dB		Trig: Fi Gate: L F Gair			ter Freq: io Std: N	3.9550000 one	00 GHz			equency 0000 GH	z	Settings
3 All Rar	nge Grap														Step) MHz		
Scale/D	iv 10.0	dB			-	Ref Value 30.	00 dB	m							Auto Man			
20.0						• • • • • • • • •								Fre 0 H	eq Offs ⊣z	et		
-10.0 -20.0																		
-30.0 -40.0 -50.0	a jante of t	~					,, ,		talet pramia tik opi				-					
-60.0																		
Start 3.												Sto	op 4.043 G	Hz				
4 All Rar	nge tabi	e 1							asure Tra ce Type	ice		Trace Aver	Trace age (Active					
	Spur	Range	Start F		Stop Freq	RBW		reque		Ampli		∆Lin						
	1				3.9800 GHz 3.9810 GHz					4.609	dBm dBm		89 dB 89 dB					
	3 4	2 3 4	3.9810	GHz	3.9850 GHz 4.0425 GHz	510.0 kHz	3.983	39360	00 GHz	-36.14 -34.92	dBm	-23.1	4 dB 2 dB					
	5	2]?		23, 2021 04:51 AM													

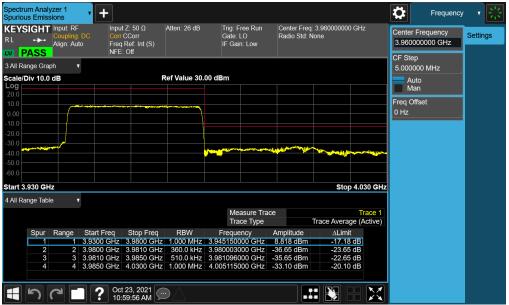
Plot 7-148. Upper ACP Plot (NR Band n77 - 50MHz CP-OFDM-QPSK - Full RB - ANT F)

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•••	Input: RF Coupling: Align: Aut	DC Corr to Free	t Z: 50 Ω CCorr Ref: Int (S)	Atten: 26 dB	Gate:	ree Run LO in: Low	Center Freq: Radio Std: N	: 3.720000000 Ione) GHz	Center Free 3.7200000		Settings
II Range Gr	aph 🔹			Ref Value 30.	00 dBm					CF Step 5.000000 I	MHz	
g										Auto Man		
.0						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Freq Offset 0 Hz		
.0		مور میرون میرون و اور میرون	with the second second						Mining and a start			
rt 3.650 G	Hz							Stop	3.750 GHz			
ll Range Ta	ole 🔻											
						asure Trad		Trace Avera	Trace 1 ge (Active)			
Spur	Range	Start Freq	Stop Freq	RBW	Freque		Amplitude	∆Limit				
2			3.6950 GHz 3.6990 GHz				-33.82 dBm -36.06 dBm	-20.82 -23.06				
3	3	3.6990 GHz	3.7000 GHz 3.7500 GHz	360.0 kHz	3.6999900	000 GHz	-36.20 dBm 9.159 dBm	-23.20	dB			
4												

Plot 7-149. Lower ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK - Full RB - ANT F)



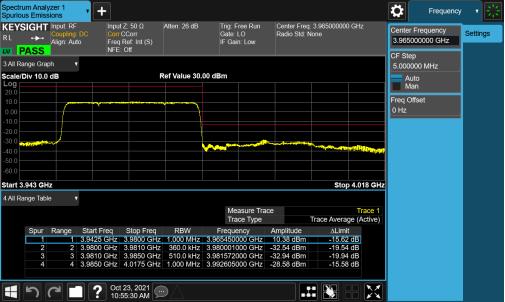
Plot 7-150. Upper ACP Plot (NR Band n77 - 40MHz CP-OFDM-QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	PCTEST Proud to be part of & element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager	
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Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Off	Atten: 26 dB	Trig: Free Run Gate: LO IF Gain: Low	Center Freq: 3 Radio Std: No	3.715000000 GHz ne	Center Frequency 3.715000000 GHz
II Range Graph		Ref Value 30.00	dDat.			CF Step 5.000000 MHz
9		ker value 30.00	авт			Auto Man
0		(Freq Offset 0 Hz
0.0						
	······································					
.0						
rt 3.663 GHz					Stop 3.738 GHz	
			Measure Trac Trace Type		Trace 1 race Average (Active)	
					,	
	rt Freq Stop Freq	RBW	Frequency	Amplitude	∆Limit	
1 <u>1 3.66</u> 2 2 3.69	rt Freq Stop Freq 25 GHz 3.6950 GHz 50 GHz 3.6990 GHz 90 GHz 3.7000 GHz	1.000 MHz 3 510.0 kHz 3	.687005000 GHz .698816000 GHz	-31.44 dBm -30.58 dBm	∆Limit <u>-18.44 dB</u> -17.58 dB -16.45 dB	

Plot 7-151. Lower ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK - Full RB - ANT F)



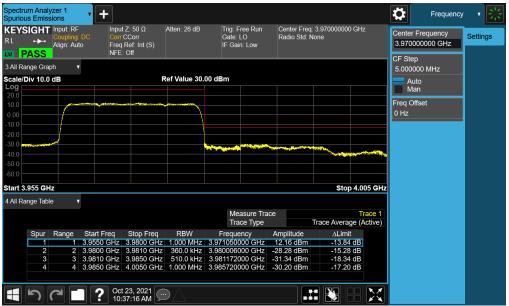
Plot 7-152. Upper ACP Plot (NR Band n77 - 30MHz CP-OFDM-QPSK - Full RB - ANT F)

FCC ID: A3LSMS906U	Prode to be part of the element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager	
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	nput: RF Coupling: D Align: Auto		Ref: Int (S)	Atten: 26 dB	Gate	Free Run e: LO ain: Low		Freq: 3 Std: Nor	.710000000 ne) GHz	3.7100	requency 00000 GHz	Setting
Range Graph	•			1							CF Step 5.00000		
le/Div 10.0 d	в			Ref Value 30.	00 dBm						Aut		
9											Ma	า	
								•			Freq Off 0 Hz	set	
					(
0				" <mark>numeron angel</mark>									
0													
t 3.675 GHz									Stop	3.725 GHz			
Range Table	v												
					Μ	leasure Tra	ce			Trace 1			
					Т	гасе Туре		Tr	ace Averaç	ge (Active)			
Spur I		Start Freq	Stop Freq	RBW		uency	Amplitu		∆Limit				
1				1.000 MHz 510.0 kHz					-19.83 -20.39				
3				360.0 kHz					-20.39				
4				1.000 MHz					-16.77				

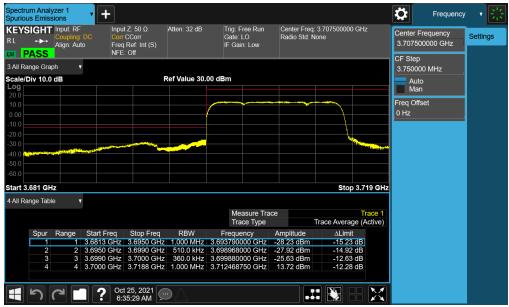
Plot 7-153. Lower ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK - Full RB - ANT F)



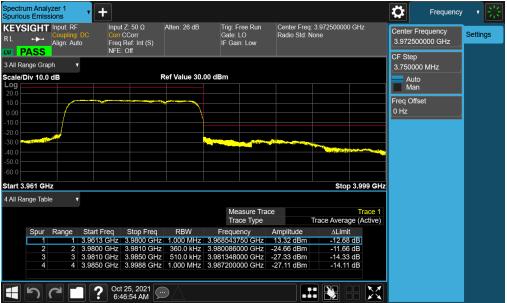
Plot 7-154. Upper ACP Plot (NR Band n77 - 20MHz CP-OFDM-QPSK - Full RB - ANT F)

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Plot 7-155. Lower ACP Plot (NR Band n77 - 15MHz CP-OFDM-QPSK - Full RB - ANT F)



Plot 7-156. Upper ACP Plot (NR Band n77 - 15MHz CP-OFDM-QPSK - Full RB - ANT F)

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EYSIGHT Input: RF - ++ Align: Auto	Input Z: 50 Ω Atten: Corr CCorr Freq Ref: Int (S) NFE: Off	: 32 dB Trig: Free Run Gate: LO IF Gain: Low	Center Freq: 3.705000000 GHz Radio Std: None	Center Frequency 3.70500000 GHz
All Range Graph				CF Step 3.750000 MHz
ale/Div 10.0 dB	Ref Va	alue 30.00 dBm		Auto Man
				Freq Offset 0 Hz
0.0				
0.0				
art 3.688 GHz			Stop 3.71	13 GHz
Il Range Table 🔹 🔻		Measure Trace	Tr	ace 1
		Тгасе Туре	Trace Average (A	ctive)
		BW Frequency A 0 MHz 3.694220000 GHz -	mplitude ∆Limit 31.72 dBm -18.72 dBl	
	950 GHz 3.6990 GHz 510	0.0 kHz 3.698952000 GHz -:	31.19 dBm -18.19 dB	
3 3.69	000 GHz 3.7125 GHz 1.00			

Plot 7-157. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK - Full RB - ANT F)

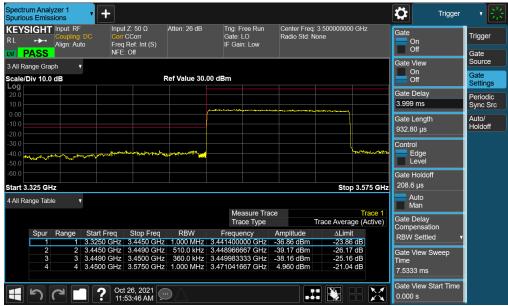


Plot 7-158. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK - Full RB - ANT F)

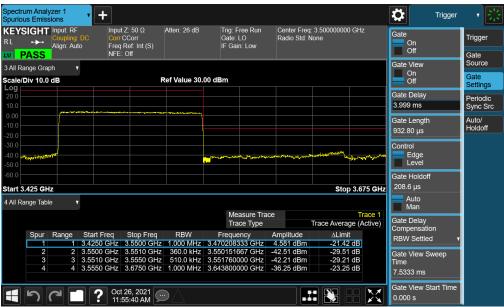
FCC ID: A3LSMS906U		PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager	
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NR Band n77 (PC2) - DoD-Band - SRS-2 - ANT C



Plot 7-159. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - ANT C)

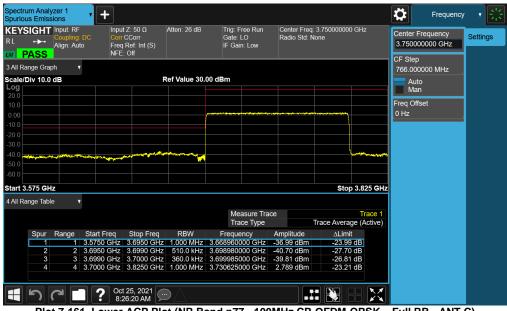


Plot 7-160. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT C)

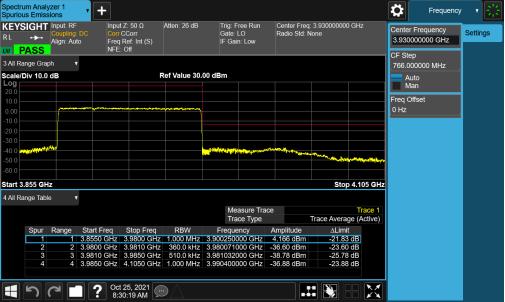
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NR Band n77 (PC2) – C-Band – SRS-2 – ANT C



Plot 7-161. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - ANT C)

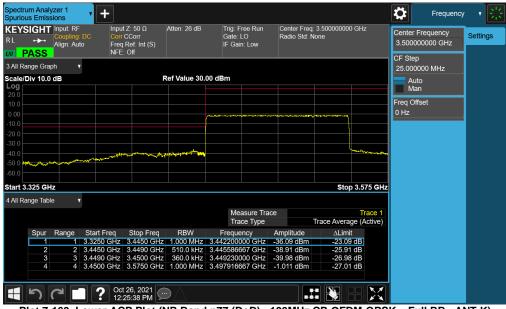


Plot 7-162. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - ANT C)

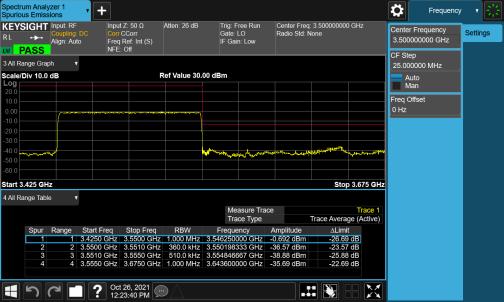
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NR Band n77 (PC2) – DoD-Band – SRS-3 – ANT K



Plot 7-163. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT K)

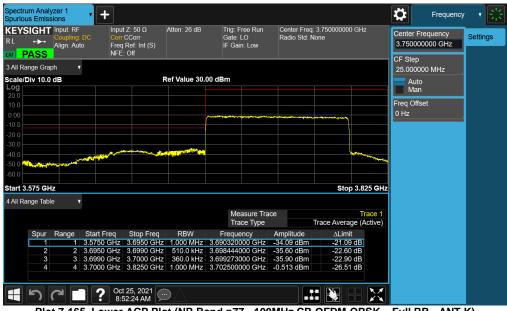


Plot 7-164. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - ANT K)

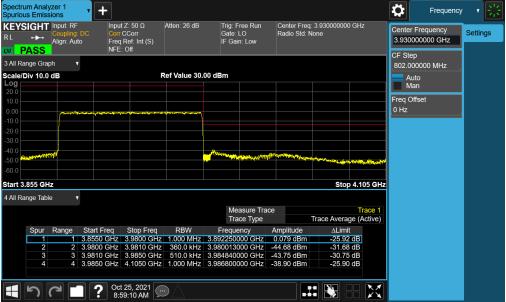
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NR Band n77 (PC2) – C-Band – SRS-3 – ANT K



Plot 7-165. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - ANT K)



Plot 7-166. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - ANT K)

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NR Band n77 (PC2) – DoD-Band – SRS-4 – ANT D



Plot 7-167. Lower ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK – Full RB - ANT D)

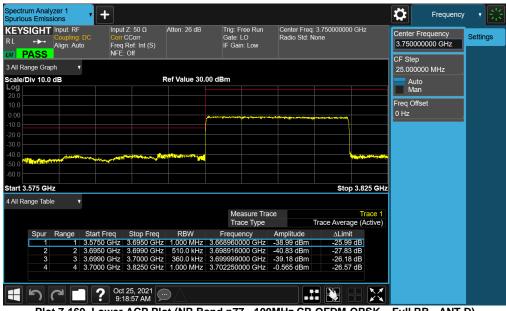


Plot 7-168. Upper ACP Plot (NR Band n77 (DoD) - 100MHz CP-OFDM-QPSK - Full RB - ANT D)

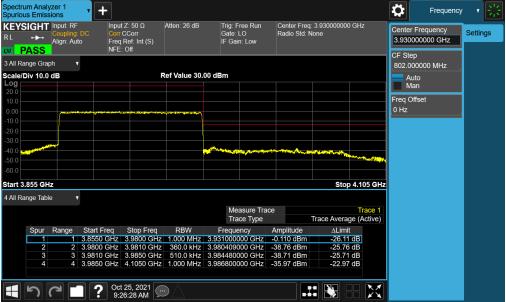
FCC ID: A3LSMS906U	PCTEST. Proud to be part of @ element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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NR Band n77 (PC2) – C-Band – SRS-4 – ANT D



Plot 7-169. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB - ANT D)



Plot 7-170. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK - Full RB - ANT D)

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7.6 Peak-Average Ratio

Test Overview

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

Test Procedure Used

KDB 971168 D01 v03r01 - Section 5.7.1

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 Note

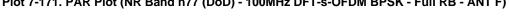
The Peak-Average Ratio was only measured on the antenna with the highest power for each band (SRS-1 / ANT F).

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NR Band n77 (DoD) - SRS-1 - Ant F







Plot 7-172. PAR Plot (NR Band n77 (DoD) - 100MHz CP-OFDM QPSK - Full RB - ANT F)

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Plot 7-174. PAR Plot (NR Band n77 (DoD) - 90MHz DFT-s-OFDM BPSK - Full RB - ANT F)

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pectrum Analyzer 1 Power Stat CCDF Ö + Frequency Center Freq: 3.500000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None Input Z: 50 Ω Trig: RF Burst #IF Gain: Low KEYSIGHT Input: RF Atten: 36 dB Center Frequency Settings Corr CCorr Freq Ref: Int (S) Align: Auto 3.500000000 GHz CF Step 1 Metrics v 2 Graph v 5.000000 MHz Gauss Auto Man Average Power 21.02 dBm Freq Offset 36.66 % at 0 dB 10.0 % 3.68 dB 1.0 % 6.57 dB 0.1 % 8.17 dB 0.01 % 9.20 dB 0.001 % 9.99 dB 0.0001 % 10.48 dB 10.54 dB Peak 31.56 dBm 20.00 dB 0.00 dB Info BW 90.000 MHz モ っ c I ? Oct 26, 2021 💬 \mathbb{X}

Plot 7-176. PAR Plot (NR Band n77 (DoD) - 90MHz CP-OFDM 256-QAM - Full RB - ANT F)

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Plot 7-178. PAR Plot (NR Band n77 (DoD) - 80MHz CP-OFDM QPSK - Full RB - ANT F)

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pectrum Analyzer 1 Power Stat CCDF Ö + Frequency Center Freq: 3.500000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None Input Z: 50 Ω Trig: RF Burst #IF Gain: Low KEYSIGHT Input: RF Atten: 36 dB Center Frequency Settings Corr CCorr Freq Ref: Int (S) Align: Auto 3.500000000 GHz CF Step 1 Metrics v 2 Graph v 5.000000 MHz Gau Auto Man Average Power 26.94 dBm Freq Offset 48.39 % at 0 dB 10.0 % 2.12 dB 1.0 % 3.84 dB 0.1 % 4.50 dB 0.01 % 4.69 dB 0.001 % 4.79 dB 0.0001 % 4.84 dB 4.87 dB Peak 31.81 dBm 20.00 dB 0.00 dB Info BW 70.000 MHz Ct 26, 2021 \mathbf{X}

Plot 7-180. PAR Plot (NR Band n77 (DoD) - 70MHz DFT-s-OFDM BPSK - Full RB - ANT F)

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pectrum Analyzer 1 Power Stat CCDF Ö + Frequency Center Freq: 3.500000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None Input Z: 50 Ω Trig: RF Burst #IF Gain: Low KEYSIGHT Input: RF Atten: 36 dB Center Frequency Settings Corr CCorr Freq Ref: Int (S) Align: Auto 3.500000000 GHz CF Step 1 Metrics v 2 Graph v 5.000000 MHz Gau Auto Man Average Power 20.97 dBm Freq Offset 36.59 % at 0 dB 10.0 % 3.68 dB 1.0 % 6.58 dB 0.1 % 8.08 dB 0.01 % 9.08 dB 0.001 % 9.75 dB 0.0001 % 10.12 dB 10.22 dB Peak 31.19 dBm 20.00 dB 0.00 dB Info BW 70.000 MHz Ct 26, 2021 \mathbb{X}

Plot 7-182. PAR Plot (NR Band n77 (DoD) - 70MHz CP-OFDM 256-QAM - Full RB - ANT F)

FCC ID: A3LSMS906U	Poor to be part of the element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 110 of 101
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Plot 7-184. PAR Plot (NR Band n77 (DoD) - 60MHz CP-OFDM QPSK - Full RB - ANT F)

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Test Report S/N:	Test Dates:	EUT Type:		Dogo 110 of 191
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