

	Input_RF Coupling BC Align Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE Adaptive	#Alten 20 dB Preamp Off	PNO Best Wid Gate: Off IF Gain: Low Sig Track: Off	e #Avg Type: F Tng: Free Ri	Power (RMS 1 2 3 4 5)	3,4500	Frequency 00000 GHz	Settings
o Spectrum cale/Div 10 d	r B	1	Ref LvI Offset 3 Ref Level 34.91	4.91 dB	Mkr	1 3.449 988 GHz -29.120 dBm	Span 4.0000 Sw	0000 MHz ept Span ro Span	
24.9							F	ull Span	
14.9					juntanintanin	4	Start Fr 3.4480	eq 00000 GHz	
5.09					. sally at	Luyun .	Stop Fr 3.4520	eq 00000 GHz	
15.1					Mar	⁴⁴ 44444440000-000-000-000-000-000-000-0	AU	TO TUNE	
25.1			- mm	AN ADDRESS AND		(Allow	CF Step 400.00		
35.1		and the second second	anti-final-manage				Au Ma		
55.1 anthroppe	up that a man man man man man man man man man m	Helofuel Legender and a					Freq Of 0 Hz	lset	
enter 3.45000 Res BW 30 kH	00 GHz		#Video BW 10	0 kHz	#Sw	Span 4.000 MH: veep ~1.01 s (1001 pts		9	Lo
15	C* - ?	Mar 20, 2024 7:01:48 PM							

n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(1)



	Input_RF Coupling 'DC Align Auto	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	#Atten: 20 dB Preamp: Off	PNO Best Wide Gate Off IF Gain Low Sig Track Off	#Avg Type: Powe Tng: Free Run	A WW WW W	and the second second	requency 10000 GHz	Settings
2 Spectrum cale/Div 10 d	• B		Ref LvI Offset 34. Ref Level 34.91 d	.91 dB	Mkr1 3	.448 996 GHz -36.920 dBm	Swe	000 MHz ept Span o Span	
4.9							FI	III Span	
4,9 91							Start Fre 3.44500	9 0000 GHz	
.09						DL1 -13.00 dBm		0000 GHz	
51							1 100	TO TUNE	
	in the contraction of the sector	tina partasta puntumi	ويوفينا ورواي والمروا	ลงรู้ใสสิง ซึ่งร้อง ² ากปี ²⁰¹ 4สุร 25 ¹ 74สุร 26	palaataan jaraa garaa aha jara	R 1	CF Step 400.000 Auto Mar		
5.1							Freq Off 0 Hz	set	
art 3.445000 les BW 510 k			#Video BW 2.0	MHz		Stop 3.449000 GHz ~1.01 s (1001 pts)	X Axis S Log Lin		Loc
5		? Mar 20, 2024 7:00:45 PM	Ð						

n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(2)



EYSIGHT Input RF Couping BC Align Auto		ten: 20 dB amp: Off	PNO Best Wide Gate Off IF Gain Low Sig Track Off	#Avg Type: Power (RN Trig: Free Run	A WWWWW A A A A A A A	and the second second	requency 00000 GHz	Settings
Spectrum v ale/Div 10 dB	Ref L	vi Offset 34.9 evel 34.91 dB	l dB	Mkr1 3.44 -34		= Swe	0000 MHz ept Span o Span	
						FI	ull Span	
Q.						Start Fre 3.44500	eq 00000 GHz	
91					DL1 -13.00 dBm	Stop Fre 3.44900	eq 00000 GHz	
ž.1					GET -13.00 00m	AU	TO TUNE	
i i i					-1	CF Step 400.000 Auto Mar) kHz o	
), 1 		42:4:51464444 ⁶⁴⁴⁶⁶⁶⁴⁴	al franska na krister († 1949) 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 19 Na franska na krister († 1940)			Freq Off 0 Hz	set	
nrt 3.445000 GHz es BW 510 kHz	#Vi	deo BW 2.0 M	Hz		3.449000 GHz 1 s (1001 pts)	X Axis S Log Lin	1	Loc

n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(2)



Wept SA	Input_RF	Input Z: 50 Ω	#Atten: 20 dB	PNO Fast	#Avg Type: Power (RM	S12345	Center	Frequency	y 12
1L	Coupling BC Align Auto	Corr CCorr Freq Ref. Int (S) NFE Adaptive	Preamp Off	Gate Off IF Gain Low Sig Track Off	Trig: Free Run	AAAAAA	and the second second	00000 GHz	Settings
Spectrum cale/Div 10 d	B		Ref LvI Offset 34 Ref Level 34.91 c	.91 dB	Mkr1 3.44 -36		Sw	0000 MHz ept Span o Span	
4.9							F	ull Span	
4.9 91							Start Fre 3.2500	eq 00000 GHz	
.09 00							Stop Fre 3.4450	eq 00000 GHz	
5.1						DE1 -13.00 dBm	AU	TO TUNE	
5.1					والقرر	.1	Aut	000 MHz o	
5.1					And the second second from the second	Wary Auguery	Ma		
i5,1							Freq Off 0 Hz	SEL	
art 3.25000 C Res BW 1.0 N			#Video BW 3.0	MHz		o 3.44500 GHz 0 s (1001 pts)	X Axis S Loç Lin		Loc
15		Mar 20, 2024 7:01:14 PM						-	

n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(3)



	ul RF Ipling DG In Auto	Input Z 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	#Atten: 20 dB Preamp: Otf	PNO Fast Gate Off IF Gain Low Sig Track Off	#Avg Type: Po Trig: Free Rur	ower (RMS 1 2 3 4 5 A WW WW V A A A A A A	3.3475	Frequency 00000 GHz	Settings
Spectrum cale/Div 10 dB	*		Ref LvI Offset 34 Ref Level 34.91 c	.91 dB	Mkr1	3.407 170 GH -42.051 dBn	Sw	0000 MHz rept Span ro Span	
4.9								ull Span	
4.9							Start Fr 3.2500	eq 00000 GHz	
- 19							Concession of the	éq 00000 GHz	
5.1						DE1-13.00 dB		TO TUNE	
15.1						1	CF Step 19.500 Au	000 MHz	
5.1						RM	Ma	π	
5.1							Freq Of 0 Hz	ISEC	
art 3.25000 GHz Res BW 1.0 MHz			#Video BW 3.0	MHz	#Sw	Stop 3.44500 GH veep 1.00 s (1001 pts			Lo
50		Mar 20, 2024 7:02:48 PM	Ð			I formed and	And in case of the local division of the loc	-	

n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(3)



Spectrum Analyzer 1 Swept SA	• +					\$	Frequency	• 5
REYSIGHT Input RF Coupling D Align Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten 20 dB Preamp Ott	PNO Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (R Trig: Free Run	MS12345 AWWWWW AAAAAA	3.55000	Frequency 00000 GHz	Settings
Spectrum Cale/Div 10 dB	10400 0000	Ref LvI Offset 34. Ref Level 34.91 d	91 dB		552 86 GHz 33.196 dBm	Sw	0000 MHz ept Span o Span	
24.9						F	uli Span	
4 91						Start Fre 3.54500	eq 00000 GHz	
n na manatana atan a ata	unitititenunnitien _e				011-13.00 dBm	Stop Fre 3.55500	eq 00000 GHz	
15-1						AU	TOTUNE	
25.1	1	Return		1	RMS	CF Step 1.00000	and the second se	
15.1		THE REAL PROPERTY OF THE PARTY		transportation and the second s	and a state of the second	Aut Mai		
55.1						Freq Off 0 Hz	set	-
enter 3.550000 GHz Res BW 200 kHz		#Video BW 1.0	MHz		Span 10.00 MHz .01 s (1001 pts)	X Axis S Log Lin		Loca
1 う つ	? Mar 20, 2024 7:08:27 PM	0					ar.	

n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(1)



EYSIGHT Input RF Coupling BC Align Auto	Input Z 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten 20 dB Preamp Off	PNO Best Wide Gate Off IF Gain Low Sig Track Off	#Avg Type: Power Trig: Free Run	(RMS12345 AWWWWW AAAAAA	Center Frequency 3.550000000 GHz	Settings
Spectrum • cale/Div 10 dB		Ref Lvi Offset 34 Ref Level 34.91 d			.550 00 GHz -29.355 dBm	Span 10.0000000 MHz Swept Span Zero Span	
4.9						Full Span	
4.9		APra.				Start Freq 3.545000000 GHz	
.09	/				DL1 -13.00 dBm	Stop Freq 3.555000000 GHz	
5.1	and the	X			Q11-13 00 dBm	AUTO TUNE	
5.1	1 Martin Contraction of the cont	T And				CF Step 1.000000 MHz	
5.1	Store and		man			Auto Man	
5.1 grangener warang daring the			and a state of the	allow places in the second	RMS	Freq Offset 0 Hz	
enter 3.550000 GHz Res BW 30 kHz		#Video BW 100	kHz		Span 10.00 MHz 1.01 s (1001 pts)	X Axis Scale Log Lin	Loc

n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(1)



Spectrum Analy Swept SA	zer 1	+					Ö	Frequency	*
EYSIGHT	Input RF Coupling DC Align Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten 20 dB Preamp Otf	PNO Best Wide Gate Off IF Gain Low Sig Track Off	#Avg Type: F Trig: Free Ru	Nower (RMS 1 2 3 4 5 1 1 2 3 4 5 1 1 1 2 3 4 5 1 1 2 3 4 5 1 1 2 3 4 5 1 1 2 3 4 5 1 1 2 3 4 5 1 1 2 3 4 5 1 1 2 3 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,5530	Frequency 00000 GHz	Settings
Spectrum cale/Div 10 d	B		Ref LvI Offset 34 Ref Level 34.91 c	.91 dB	Mkr	3.551 704 GHz -28.452 dBm	= Sw	0000 MHz ept Span o Span	
4.9							F	ull Span	
4,9 91							Start Fre 3.5510	eq 00000 GHz	
.09						DL1 -13.00 dBm	Stop Fre 3.5550	eq 00000 GHz	
5.1						DE1-13.00 08m	AU	TO TUNE	
5.1	ungananan dari ya	allan an a	indina di Angelia (di seconda di s	99669472497644764949494949494949494949	and an a family made where	RMS	CF Step 400.00 Aut Ma	0 kHz o	
5.1							Freq Off 0 Hz	set	-
art 3.551000 Res BW 510 k			#Video BW 2.0	MHz	#Sw	Stop 3.555000 GHz eep ~1.01 s (1001 pts)			Loc
15		Mar 20, 2024 7:08:56 PM	9					ac.	

n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(2)



WEPT SA	Input RF Coupling DG	Input Z: 50 Q Corr CCorr	#Atten 20 dB Preamp Off	PNO: Best Wide Gate: Off	#Avg Type: Powe Trig: Free Run	ar (RMS <mark>1 2 3 4 5 6</mark>	Center I	Frequency	Settings
U ++	Align Auto	Freq Ref. Int (S)	Cleanth On	IF Gain: Low Sig Track: Off	ing. File Run	AAAAAA		00000 GHz	Centings
Spectrum cale/Div 10 d	B		Ref LvI Offset 34 Ref Level 34.91 d	.91 dB	Mkr1 3	3.551 000 GHz -33.216 dBm	Sw	0000 MHz ept Span o Span	
4.9								ull Span	
4.9 91							Start Fre 3.5510	eq 00000 GHz	
.09						DL1-13.00 dBm	Stop Fre 3.5550	eq 00000 GHz	
5.1						UL1-13.00 dBm	AU	TO TUNE	
51 1							CF Step 400.00		
15.1 MMMMMMM	Mahananananananan Mahananan Mahananan Mahananan Mahananan Mahananan Mahananan Mahananan Mahananan Mahanananan M	MURADARAMANANANANANANANANANANANANANANANANANAN	HIGO				Aut Ma		
5.1		NUMUNIALAA MANANANANANANA	andah shikili kaka halisi ka	Maittesi Mitilytäventeina Musia vana	n ten mentre anderse ager en a	RMS	Freq Off 0 Hz	'set	
art 3.551000 Res BW 510 k			#Video BW 2.0	MHz	#Sweep	Stop 3.555000 GHz >~1.01 s (1001 pts)	X Axis S Lo <u>i</u> Lin	1	Loc
5		Mar 20, 2024 7:10:33 PM						ac.	

n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(2)



Span Span Span 11 Spectrumi Ref Lvi Offset 34.91 dB -28.435 dBm -28.435 dBm 249 -28.435 dBm Swept Span Zero Span 249 -28.435 dBm Full Span Start Freq 3.55500000 GHz Start Freq 3.55500000 GHz Stop Freq 3.670000000 GHz Stop Freq 3.67000000 GHz Stop Freq 3.67000000 GHz -28.435 dBm -28.435 dBm Stop Freq 3.670000000 GHz -28.435 dBm Stop Freq 3.670000000 GHz 49		ng DG Corr CCorr		PNO Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Tng: Free Run	ver (RMS <mark>12345)</mark> A WWWWW A A A A A A A		Frequency 00000 GHz	Settings
14.9 Start Freq 191 3.555000000 GHz 195 DL1-13.00 dBm 195 AUTO TUNE 195 CF Step 11.500000 MHz	e/Div 10 dB		Ref LvI Offset 34.	.91 dB	Mkr1	3.557 19 GHz	115.00 Sw	ept Span	
91 91 92 93 94 95 94 95 95 95 95 95 95 95 95 95 95							F	ull Span	
Stop Freq 3.67000000 GHz 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1							the second second second		
CF Step 11.500000 MHz Auto Man Freq Offset						DL1 -13.00 dBm	and the second second		
25 1 11.50000 MHz Auto Man Freq Offset							AU	TOTUNE	
S 1 Freq Offset									
Freq Offset		nan ang kanang kana Kanang kanang	"Propagate Strangell	11110	hannannan	BMS			
5.1 0 Hz							Freq Of 0 Hz	lset	
art 3.55500 GHz #Video BW 3.0 MHz Stop 3.67000 GHz Res BW 1.0 MHz #Sweep 1.00 s (1001 pts)			#Video BW 3.0	MHz	#Swe		Lo	g	Loc

n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(3)



EYSIGHT Input. RF Coupling, BC Align Auto	Input Z 50 Ω #Atten 20 0 Corr CCorr Preamp Of Freq Ref. Int (S) NFE Adaptive		#Avg Type: Power (RMS 1 2 3 4 5 Trid: Free Run A WWWW	3.612500000 GHz	Settings
Spectrum • ale/Div 10 dB	Ref Lvi Offs Ref Level 34	et 34.91 dB	Mkr1 3.592 49 G -39.595 dE	Span 115.000000 MHz	
.9				Full Span	
9.9				Start Freq 3,555000000 GHz	
09			DE1-13.00 (Stop Freq 3.670000000 GHz	
5.1			DET -13:00 1	AUTO TUNE	
5.1 2 1	•1			CF Step 11.500000 MHz Auto Man	
51				Freq Offset 0 Hz	
art 3.55500 GHz es BW 1.0 MHz	#Video BV	V 3.0 MHz	Stop 3.67000 G #Sweep 1.00 s (1001 p		Loc

n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(3)



xi NPE Adaptive Sig Track: 1 Spectrum! * Ref Lvi Offset 34.91 dB Scale/Div 10 dB Ref Level 34.91 dBm -09 - 24.9 - 14.9 - 5.09 -	Mkr1 3.449 984 GHz Span 4.000000000 MHz -35.856 GBm Swept Span Swept Span Full Span Full Span Start Freq 3.448000000 GHz Stop Freq
(4.9) 1.91	Start Freq 3.448000000 GHz
91	3.448000000 GHz
	RMS Stop Freq
51	AUTO TUNE
5.1 5.1 5.1 ////////////////////////////////////	CF Step 400.000 kHz Auto Man
5.1	Freq Offset 0 Hz
enter 3.450000 GHz #Video BW 1.0 MHz Res BW 200 kHz	Span 4.000 MHz #Sweep ~1.01 s (1001 pts)

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(1)



Spectrum Analy Swept SA		+						¢	Frequenc	y • -
	Input RF Coupling BG Align Auto	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten 20 dB Preamp Off	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: F Trig: Free Ru	Power (RMS 1 2 3 4	WW.	and the second second	requency 10000 GHz	Settings
o Spectrum cale/Div 10 d	, B		Ref Lvi Offset 34 Ref Level 34.91 (4.91 dB	Mkr1	3.449 992 0 -26.379 d	GHz	Sw	0000 MHz ept Span o Span	
4.9							-	F	uli Span	
4.9					personality			Start Fre 3.4480	eq 00000 GHz	
.09				للمعقد	J	A A A A A A A A A A A A A A A A A A A		Stop Fre 3.4520	9 00000 GHz	
5.1				HANDLING BALLING		DL1-13.0		AU	TO TUNE	
5.1			Webbywee	- Helenter			unner	CF Step 400.000		
51		and the second se	U.M. MARKANC					Aut Ma		
5.1 Magnaraph	Matanaktintertertert	decored the method per set of the						Freq Off 0 Hz	set	
enter 3.45000 Res BW 30 kH	00 GHz		#Video BW 100	0 kHz	#Sw	Span 4.000 veep ~1.01 s (1001		X Axis S Log Lin		Loc
15	2	? Mar 20, 2024 7:14:33 PM					X		90- 1	

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(1)



L Coupling BC Co Align Auto Fri	but Z 50 Ω #Atten: 20 dB mr CCorr Preamp: Off eq Ref. Int (S) Έ Adaptive	PNO. Best Wide #Avg Type: Power Gate: Off Trig: Free Run IF Gain: Low Sig Track: Off		nter Frequency 147000000 GHz	Settings
Spectrum v cale/Div 10 dB	Ref Lvi Offset 34. Ref Level 34.91 d	1 dB Mkr1 3.	445 024 GHz 4.0 -36.472 dBm	an 00000000 MHz Swept Span Zero Span	
4.9			-	Full Span	
91			10.00	rt Freq 145000000 GHz	
09			3.4	p Freq 449000000 GHz	
5.1			DL1-13.00 dBm	AUTO TUNE	
1 Hintinganananananananananananananananananana	ncikaljantocamiljantintananistika. ⁴⁰ 14	พาแขนขางของสมเสราสถายการเกิดจาก	40	Step 0.000 kHz Auto Man	
5.1				q Offset Iz	
art 3.445000 GHz es BW 510 kHz	#Video BW 2.0		top 3.449000 GHz ~1.01 s (1001 pts)	xis Scale Log Lin	Loc

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(2)



Spectrum Analy Swept SA	zer 1 🔹	+					Ö	Frequency	y • 🛃
EYSIGHT	Input_RF Coupling BC Align Auto	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten 20 dB Preamp Ott	PNO Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Trig: Free Run	(RMS 1 2 3 4 5) A WWWWW A A A A A A A		Frequency 00000 GHz	Settings
Spectrum cale/Div 10 d	B		Ref Lvi Offset 34 Ref Level 34.91 d	.91 dB		.448 992 GHz -33.193 dBm	Sw	0000 MHz ept Span o Span	
4.9							F	ull Span	
(4.9 91							Start Fre 3.4450	eq 00000 GHz	
.09						DL1 -13.00 dBm	Stop Fre 3.4490	9 00000 GHz	
5.1						UCT - 13.07 UDM	AU	TO TUNE	
5.1						.1	CF Step 400.00) kHz	
45.1				and a Series with the set	ANT ALL MARTING AND	WEIGHERWAND	Aut Ma		
5.1	ungenskenisterer Vorter Vor	ing sharp server a post of south the	olen altreit and transition	Variation of the second se			Freq Of 0 Hz	set	
tart 3.445000 Res BW 510 k			#Video BW 2.0	MHz		stop 3.449000 GHz ~1.01 s (1001 pts)		1	Loca
15		Mar 20, 2024 7:15:02 PM	<u></u>					ac.	

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(2)



	out RF upung DC gri Auto	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp Off	PNO Fast Gate Off IF Gam Low Sig Track Off		1 2 3 4 5 1 A W W W W W A A A A A A A	Center Free 3.3475000		Settings
Spectrum cale/Div 10 dB	÷	1	Ref LvI Offset 34. Ref Level 34.91 d	.91 dB	Mkr1 3.442 -34.5	855 GHz 319 dBm	Span 195.00000 Swept Zero S	Span	
4.9							Full	Span	
4.9 91							Start Freq 3.2500000	00 GHz	
09							Stop Freq 3.4450000	00 GHz	
5.1						01-13.00 dBm	AUTO	TUNE	
5.1						R.	CF Step 19.500000 Auto	MHz	
5.1				A Maria Maria Ana Maria	Antonia manalana M	A.A.	Мап		
.i							Freq Offset 0 Hz		-
art 3.25000 GH es BW 1.0 MHz			#Video BW 3,0	MHz	Stop 3 #Sweep 1.00	.44500 GHz s (1001 pts)	X Axis Scal Log Lin	e	Loc

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(3)



Spectrum Ref Lvi Offset 34.91 dB Mkr1 3.402 100 GHz Span 195.000000 MHz Scale/Div 10 dB Ref Level 34.91 dBm -40.495 dBm Swept Span Zero Span 240 Image: Spectrum Full Span Start Freq 3.25000000 GHz Start Freq 3.25000000 GHz Start Freq 3.25000000 GHz Stop Freq 3.445000000 GHz Stop Freq		iput RF oupling BC lign Auto	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	#Atten: 20 dB Preamp: Off	PNO Fast Gate Off IF Gain Low Sig Track Off	#Avg Type: Po Thg: Free Run	wer (RMS 1 2 3 4 5 A WWWW A A A A A	A A	
14.9 Start Freq 9.91 3.25000000 GHz 3.05 0.05 15.1 0.01 15.1 0.02 15.1 0.03 15.1 0.05	Spectrum cale/Div 10 dB	•				Mkr1		HZ 195.000000 MHz	
191 191 191 191 191 191 191 191	24.9							Full Span	
5.09 15.1								the second se	z
AUTO TUNE CF Step 19.500000 MHz Auto Man Freq Offset							DE1 -13.00 d	3.445000000 GH	iz
25 1	15.1								
15.1 Auto Man Freq Offset									
Freq Offset						<u>, </u>		Man	
tart 3.25000 GHz #Video BW 3.0 MHz Stop 3.44500 GHz Log Res BW 1.0 MHz #Sweep 1.00 s (1001 pts)				#Video BW 3.0	MHz	#Sw	Stop 3.44500 G		La

n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(3)



	input RF Coupling DC Align Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE. Adaptive	#Atten: 20 dB Preamp: Off	PNO Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Trig: Free Run	er (RMS <mark>12345)</mark> A WWWWW A A A A A A		Frequency Frequency 00000 GHz	Settings
Spectrum cale/Div 10 d	B	1	Ref Lvi Offset 34 Ref Level 34.91 c	.91 dB	Mkr1	3.553 82 GHz -40.559 dBm	Sw	0000 MHz ept Span o Span	
4.9							F	ull Span	
4.9							Start Fr 3.5450	eq 00000 GHz	
	are Matrice an average data are the	41442000 1714 1910 1910 1910 1910 1910 1910 1910 19				011-13.00 dBm	Stop Fre 3.5550	eq 00000 GHz	
51		1				D2.1 - 13.00 dBm	AU	TOTUNE	
5.1		TWHINK	1991-1901-1991-1991-1991-1991-1991-1991			RMS	CF Step 1.0000 Aut Ma	00 MHz	
5.1				<u> </u>	1999-1999 1999 1999 1999 1999 1999 1999	PULL C	Freq Of 0 Hz		
enter 3.55000 Res BW 200 k			#Video BW 1.0	MHz	#Swee	Span 10.00 MHz p ~1.01 s (1001 pts)	X Axis S Lo Lin	91	Loc
5		Mar 20, 2024 7:19:48 PM							

n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(1)



	Input RF Coupling DC Align Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off	PNO Best Wide Gate Off IF Gain Low Sig Track Off	#Avg Type: Power (RN Tng: Free Run	15 <mark>12345</mark> Awwwww AAAAAA		Frequency D0000 GHz	Settings
Spectrum cale/Div 10 dl	¥ B		Ref LvI Offset 34 Ref Level 34.91 o	.91 dB		50 03 GHz 5.473 dBm	Sw	0000 MHz ept Span o Span	
24.9							F	ull Span	
4.9			perm.				Start Fre 3.5450	eq 00000 GHz	
.09						DL1-13.00 dBm	Stop Fre 3.5550	eq 00000 GHz	
5.1			North Contraction of the second secon			OL1-13.00 dBm	AU	TO TUNE	
5.1		1 Martin					CF Step 1.0000	00 MHz	
15.1		and a start where the start wh		New Menin			Aut Ma		
5.1 WAREAN	Were special with with	ulia.		ARRING COLOURS	httelightelighteligenet.comb	RIMS MM416-Josepherekgenerek	Freq Of 0 Hz		
enter 3.55000 Res BW 30 kH			#Video BW 100		S	pan 10.00 MHz 01 s (1001 pts)	X Axis S Lo: Lin		Loc
5		? Mar 20, 2024 7:21:24 PM	Ø						

n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(1)



EYSIGHT Input RF Coupling BC Align Auto		len 20 dB PNO Best Wi amp Off Gate Off IF Gain Low Sig Track Off	Thg: Free Run	3.553000000 GHz	Settings
Spectrum v cale/Div 10 dB	Ref L	vi Offset 34.91 dB evel 34.91 dBm	Mkr1 3.553 928 -36.222	GHZ 4.0000000 MHz	
4.9				Full Span	
91				Start Freq 3.551000000 GHz	
08				Stop Freq 3.555000000 GHz	
5.1			DL1-1	AUTO TUNE	
		UUUUUUU	1	CF Step 400.000 kHz Auto Man	
51				Freq Offset 0 Hz	_
art 3.551000 GHz es BW 510 kHz	#Vic	ieo BW 2.0 MHz	Stop 3.5550 #Sweep ~1.01 s (10		Loca

n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(2)



Wept SA	Inout DE	Input Z: 50 Ω	#Atten 20 dB	PNO Best Wide	#Avg Type: Power (RMS		ø	Frequenc	y 13
	Coupling DG Align Auto	Corr CCorr Freq Ret Int (S) NFE: Adaptive	Preamp Off	Gate: Off IF Gain: Low Sig Track: Off	Ting: Free Run		and the second second	Frequency 00000 GHz	Settings
Spectrum cale/Div 10 d	, B		Ref Lvi Offset 34 Ref Level 34.91 c	.91 dB	Mkr1 3.551 -32		= Sw	0000 MHz ept Span o Span	
24.9							F	ull Span	
(4.9 91							Start Fr 3.5510	eq 00000 GHz	
.09						DL1 -13.00 dBm	Stop Fr 3.5550	eq 00000 GHz	
15.1						ULT-13.00 0000	AU	TO TUNE	
51							CF Step 400.00		
15.1	YN ORAN I TRANSFORMATION		When And Street March 1997				Au Ma		
i5,1		and the sector sector (12)	nici den la financia de la	an managan ang ang ang ang ang ang ang ang a	nan manananan ang ang ang ang ang ang ang ang	slavourvenu evena	Freq Of 0 Hz	lset	
tart 3.551000 Res BW 510 k	GHz		#Video BW 2.0			.555000 GHz		9	Loc
15	201	? Mar 20, 2024 7:21:53 PM	0						

n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(2)



L Coupling DC Align Auto	Input Z 50 Ω #Atten 20 dl Corr CCorr Preamp Off Freq Ref. Int (S) NFE Adaptive	B PNO Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RI Trig: Free Run	MS12345 AWWWWW AAAAAA	Center Frequency 3.612500000 GHz	Settings
Spectrum v cale/Div 10 dB	Ref Lvi Offse Ref Level 34.	t 34.91 dB		56 04 GHz 0.040 dBm	Span 115.000000 MHz Swept Span Zero Span	
4.9					Full Span	
91					Start Freq 3.555000000 GHz	
09				DE1 -13.00 dBm	Stop Freq 3.670000000 GHz	
5.1				QL1 -13 00 dBm	AUTO TUNE	
and the state of the		Manadhamm	energing and the	RMS	CF Step 11.500000 MHz Auto Man	
				an a	Freq Offset 0 Hz	
art 3.55500 GHz es BW 1.0 MHz	#Video BW	3,0 MHz		op 3.67000 GHz 00 s (1001 pts)	X Axis Scale Log Lin	Loc

n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(3)



Align Auto	Input Z 50 Ω #Atten 20 dB Corr CCorr Preamp Off Freq Ref. Int (S) NFE Adaptive	PNO Fast Gate Off IF Gain Low Sig Track Off	#Avg Type: Power (RMS 1 2 3 4 5 Trig: Free Run AWW WW A A A A A	A	Settings
pectrum v ale/Div 10 dB	Ref Lvi Offset Ref Level 34.9	34.91 dB	Mkr1 3.597 55 GH -36.512 dB	Span 115.000000 MHz	
9				Full Span	
.9				Start Freq 3,555000000 GHz	
9			DL1 -13.00 dE	Stop Freq 3.670000000 GHz	
1				AUTO TUNE	
1	<u>1</u>			CF Step 11.500000 MHz	
MANA AND AND AND AND AND AND AND AND AND			RM	Auto Man	
1				Freq Offset 0 Hz	
rt 3.55500 GHz es BW 1.0 MHz	#Video BW 3	3.0 MHz	Stop 3.67000 GF #Sweep 1.00 s (1001 pt		Loc

n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(3)





11. TEST PLOTS(3700 MHz - 3980 MHz)

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	uplini DG Cor	ut Z:50 Ω Atten r CCorr Pream g Ret. Int (S)		Trig: RF Burst #IF Gain: Low	Center Freq: 3.840000000 Counts: 2.00 M/2.00 Mpt Radio Std: None	Q112	Center Frequency 3.840000000 GHz	Setting
etrics Average Por	*	2 Graph Gaussian					CF Step 100.000000 MHz Auto Man	
	22.34 dBm 47.21 % at 0 dB	10 5					Freq Offset 0 Hz	
10.0 % 1.0 % 0.1 %	1.98 dB 3.61 dB 4.19 dB							
0.01 % 0.001 %	4.42 dB 4.64 dB	0.) %						
0.0001 %	4.75 dB	0.07 %						
Peak	4.76 dB 27.10 dBm	0.061 %						
		0.0001 0.00 dB Info BW 10.000 I	MHz			20.00 dB		La

n77(3700~3980 MHz)_10 M_PAR_Mid_BPSK_FullRB



	uplina DG Cor	ut Z 50 Ω Atten 2 r CCorr Preamp g Ret Int (S)			Center Frequence 3.840000000 G	
etrics	*	2 Graph Gaussian			CF Step 10.000000 MHz Auto	
Average Po		100			Man	
	21.84 dBm 45.75 % at 0 dB	105			Freq Offset 0 Hz	
	40,10,10 10 10 10					_
10.0 %	2.47 dB					
1.0 %	4.42 dB					
0.1 %	5.44 dB					
0.01 %	5.77 dB	D 1 %				
0.001 %	5.97 dB					
0.0001 %	6.01 dB	0.01%				
	6.03 dB	0.001 %				
Peak	27.87 dBm					
		0.000 dB Info BW 10.000 M	Hz	2	20.00 dB	Lo

n77(3700~3980 MHz)_10 M_PAR_Mid_QPSK_FullRB



	uplina DG Con		n 20 dB imp Oli	Trig: RF Burst #IF Gain: Low		c; 3 840000000 GHz 00 M/2 00 Mpt None	Center Fr 3.840000	equency 1000 GHz	Settings
etrics	*	2 Graph Gaussian	•	_			CF Step 10.00000 Auto	0 MHz	
Average Por	wer 20.82 dBm						Man Freq Offs	at	
	43.74 % at 0 dB	10 5					0 Hz	-1	
10.0 %	2.94 dB								
1.0 %	5.10 dB								
0.1 %	6.31 dB			X = X					
0.01 %	6.67 dB	0.1 %							
0.001 %	6.89 dB								
0.0001 %	7.01 dB	0.01 %			X				
Directo	7.01 dB	0.001 %							
Peak	27.83 dBm								-
		0.000 dB 0.00 dB Info BW 10.000	MHz			20.00 d	в		Lo

n77(3700~3980 MHz)_10 M_PAR_Mid_16QAM_FullRB



	upuna DG Cor		n 20 dB mb Oli	Trig RF Burst #IF Gain Low	Center Freq 3.84 Counts 2.00 M/2 Radio Std. None		Center Frequence 3.840000000 Gi	
etrics	*	2 Graph Gaussian	•				CF Step 10.000000 MHz	
Average Por	wer 20.32 dBm						Man Erea Officet	
	43.37 % at 0 dB	10 5					Freq Offset 0 Hz	
10.0 %	3.02 dB							
1.0 %	5.24 dB	1						
0.1 %	6.58 dB							
0.01 %	7.19 dB	0.1%						
0.001 %	7.52 dB							
0.0001 %	7.59 dB	0.01 %						
	7.60 dB	0.001 %						
Peak	27.92 dBm							
		0.000 + s 0.00 dB Info BW 10.000	MHz			20.00 dB		Lo

n77(3700~3980 MHz)_10 M_PAR_Mid_64QAM_FullRB



	uplina DG Con		20 dB Trig RF np Off #IF Gain	eq: 3.840000000 GHz 00 M/2 00 Mpt 1 None	Center Frequence 3.840000000 GH	
etrics Average Pov	T	2 Graph Gaussian			CF Step 10.000000 MHz Auto Man	
	18,28 dBm 43,37 % at 0 dB	10 %			Freq Offset 0 Hz	
10.0 % 1.0 %	2.98 dB 5.29 dB	i n				
0.1 % 0.01 %	6.63 dB 7.53 dB	0)%				
0.001 % 0.0001 %	8.04 dB 8.14 dB	0.01 %				
Peak	8.16 dB 26.44 dBm	0.001 %				
		0.000 dB 0.00 dB Info BW 10.000	MHz	20.00 d	в	Lo

n77(3700~3980 MHz)_10 M_PAR_Mid_256QAM_FullRB



	upling DG Cor	ut Z 50 Ω Atten 2t r CCorr Preamb g Ret. Int (S)		Center Freq: 3.840000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None	Center Frequency 3.840000000 GHz	Setting
etrics Average Pov	*	2 Graph Gaussian			CF Step 10.000000 MHz Auto Man	
	22.38 dBm 47.56 % at 0 dB	10 %			Freq Offset 0 Hz	
10.0 % 1.0 % 0.1 %	2.01 dB 3.43 dB 4.33 dB	19				
0.01 %	4.61 dB	n.) %				
0.0001 %	4.88 dB	0.01 %				
Peak	4.89 dB 27.27 dBm	0.001 %				
		0.000 dB Info BW 15.000 MH	-tz	20.00	dB	La

n77(3700~3980 MHz)_15 M_PAR_Mid_BPSK_FullRB



	upling DG Cor	ut Z:50 Q Atten 1 r CCorr Preami g Ret. Int (S)			Center Frequency 3.840000000 GHz	Setting
etrics		2 Graph Gaussian			CF Step 15.000000 MHz Auto	
Average Pov	ver 21.87 dBm				Man	4
	45,56 % at 0 dB	10 5			Freq Offset 0 Hz	
10.0 %	0.40.40				1	
10.0 %	2.40 dB 4.52 dB	i s				
0.1 %	4.52 dB					
0.01 %	5.93 dB	0.1%				
0.001 %	6.13 dB					
0.0001 %	6.22 dB	0.01 %				
area.	6.23 dB	0.001 %				
Peak	28.10 dBm					-
		0.000 dB 0.00 dB Info BW 15.000 N	IHz	20.0	0 dB	Lo

n77(3700~3980 MHz)_15 M_PAR_Mid_QPSK_FullRB



	upuna DG Cor	ut Z:50 Ω Atten r CCorr Pream q Ref. Int (S)		rig: RF Burst IF Gain: Low	Center Freq: 3 84000000 Counts: 2 00 M/2 00 Mpt Radio Std: None		Center Freq 3.84000000		Settings
letrics		2 Graph			And a state of the	_	CF Step 15.0000001	MHZ	
		Gaussian					Auto	111 144	
Average Por		100 3					Man		
	20.85 dBm						Freq Offset		
	44.06 % at 0 dB	10 5					0 Hz		
10.0 %	2.86 dB								
1.0 %	5.07 dB	1-							
0.1 %	6.37 dB								
0.01 %	6.84 dB	D. (%							
0.001 %	7.10 dB								
0.0001 %	7.33 dB	0.07 %			X				
-	7.33 dB	0.001 2							
Peak	28.18 dBm								
		0.00015				20.00.10			Lo
		0.00 dB Info BW 15.000 l	MHz			20.00 dB			

n77(3700~3980 MHz)_15 M_PAR_Mid_16QAM_FullRB



	ipling DG Con		20 dB Trig RF Bun no Off #IF Gain Lo	Mpt	Inter Frequency 840000000 GHz	Setting
etrics Average Pov		2 Graph Gaussian			Step 5.000000 MHz Auto Man	
	20.38 dBm 13.63 % at 0 dB	10 %			eq Offset Hz	
10.0 % 1.0 %	2.90 dB 5.23 dB	Ì 9				
0.1 % 0.01 %	6.66 dB 7.31 dB	0.) %				
0.001 % 0.0001 %	7.52 dB 7.68 dB	0.01 %				
Peak	7.69 dB 28.07 dBm	0.061 %				
		0.000 dB Info BW 15.000 f	MHz	20.00 dB		Lo

n77(3700~3980 MHz)_15 M_PAR_Mid_64QAM_FullRB



	uplina DG Cor		1 20 dB mp Off	Trig RF Burst #IF Gain Low	Counts 2 00 1 Radio Std No		Center Freq 3.84000000		Setting
etrics		2 Graph Gaussian	•				CF Step 15.000000	MHz	
Average Por		100 %					Man		
	18.42 dBm						Freq Offset		
	43.06 % at 0 dB	10 %					0 Hz		
10.0 %	2.91 dB								
1.0 %	5.30 dB	1%							
0.1 %	6.88 dB								
0.01 %	7.93 dB	n] *							
0.001 %	9.09 dB								
0.0001 %	9.32 dB	0.01 %							
-	9.36 dB	0.001 %							
Peak	27.78 dBm								
		0.00 dB Info BW 15.000	MHz			20.00 dE	8		Lo

n77(3700~3980 MHz)_15 M_PAR_Mid_256QAM_FullRB



	uplini DG Cor		n 20 dB mp Off	Trig: RF Burst #IF Gain: Low	Center Freq: 3 84000 Counts: 2 00 M/2 00 M Radio Std: None		Center Frequency 3.840000000 GHz	Setting
etrics Average Por	*	2 Graph Gaussian		_			CF Step 15.000000 MHz Auto Man	
Average Por	22.44 dBm						Freq Offset	
	47.71 % at 0 dB	10					0 Hz	
10.0 %	1.93 dB							
1.0 %	3.65 dB	18						
0.1 %	4.19 dB			\rightarrow				
0.01 %	4.41 dB	n] **		$\langle \rangle$				
0.001 %	4.59 dB							
0.0001 %	4.68 dB	0.01 %		/				
-	4.70 dB	0.001 %						
Peak	27.14 dBm							
		0.0001 s 0.00 dB Info BW 20.000	MHz			20.00 dB		Lo

n77(3700~3980 MHz)_20 M_PAR_Mid_BPSK_FullRB



	ipling DG Con	utZ 50 Ω Atten 20 α rCCorr Preamb C qRet Int (S)	Center Freq: 3.840000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None	Center Frequency 3.840000000 GHz	Setting
etrics Average Pov	T Upper	2 Graph Gaussian		CF Step 20.000000 MHz Auto Man	
	21.98 dBm 15.78 % at 0 dB	10 5		Freq Offset 0 Hz	
10.0 % 1.0 %	2.37 dB 4.45 dB	1			
0.1 % 0.01 %	5.68 dB 6.17 dB	0.1%			
0.001 % 0.0001 %	6.46 dB 6.58 dB	0.07 %			
Peak	6.61 dB 28.59 dBm	0.001 %			
		0.000 dB Info BW 20.000 MHz	20.00	dB	La

n77(3700~3980 MHz)_20 M_PAR_Mid_QPSK_FullRB



	uplini DG Cor			in Low Counts	Freq: 3 840000000 GHz : 2 00 M/2 00 Mpt Std: None	Center Frequence 3.840000000 GH	
atrics	*	2 Graph				CF Step 20.000000 MHz	
		Gaussian				Auto	
Average Pov		155 %				Man Man	
	20.88 dBm					Freq Offset	
*	44.33 % at 0 dB	10				0 Hz	
10.0 %	2.89 dB						
1.0 %	5.06 dB	ĩ -					
0.1 %	6.46 dB						
0.01 %	7.13 dB	n (%		$\mathbf{\lambda}$			
0.001 %	7.43 dB	0.07 %					
0.0001 %	7.58 dB	0.01 %		X			
	7.74 dB	A-444-00					
Peak.	28.62 dBm	0.001 >>					
	20.02 4011						
		0.000 dB 0.00 dB Info BW 20.000	MHZ		20.00 d	В	Lo

n77(3700~3980 MHz)_20 M_PAR_Mid_16QAM_FullRB



	Supling DG Cor		20 dB np Off	Trig RF Burst #IF Gain Low	Center Freq. 3 840000000 GHz Counts: 2 00 M/2 00 Mpt Radio Std: None	Cente	er Frequency 0000000 GHz	Setting
trics		2 Graph			- Internet	CF S	tep 00000 MHz	
		Gaussian					Auto	
Average Po		10.5					Man	
	20.39 dBm						Ollset	
	43.74 % at 0 dB	10 5				0 Hz	1.	
10.0 %	2.98 dB							
1.0 %	5.20 dB	is						
0.1 %	6,70 dB							
0.01 %	7.63 dB	0.1%		$\wedge \wedge$				
0.001 %	7.89 dB							
0.0001 %	8,05 dB	0.01 %						
	8.08 dB	0.001 34						
Peak	28.47 dBm							
		0.0001 %			20	0.00 dB		Lo
		Info BW 20.000	MHz					

n77(3700~3980 MHz)_20 M_PAR_Mid_64QAM_FullRB



	uplina DG Con		n 20 dB imp Off	Trig RF Burst #IF Gain: Low	Counts 2 00 M Radio Std None		Center Frequence 3.840000000 GH	
etrics Average Pov	*	2 Graph Gaussian					CF Step 20.000000 MHz Auto Man	
	18.34 dBm 43.41 % at 0 dB	10 %					Freq Offset 0 Hz	
10.0 % 1.0 %	2.96 dB 5.32 dB	ĩs						
0.1 % 0.01 %	6.85 dB 7.75 dB	01%						
0.001 % 0.0001 %	8.33 dB 8.45 dB	0.01 %			X III			
Peak	8.46 dB 26.80 dBm	0.001 %						
		0.000 dB Info BW 20.000	MHz			20.00 dB		Lo

n77(3700~3980 MHz)_20 M_PAR_Mid_256QAM_FullRB



	upling DG Con	ut Z:50 Ω Atten r CCorr Pream g Ret. Int (S)		an Low (Center Freq: 3 840000000 Counts: 2 00 M/2 00 Mpt Radio Std: None	C	enter Frequency 840000000 GHz	Setting
etrics		2 Graph				1000	F Step 0.000000 MHz	
Average Pov	une.	Gaussian					Auto Man	
Average Pov	22.40 dBm					E.	req Offset	4
	7.81 % at 0 dB	10 5					Hz	
10.0 %	1.92 dB	1-			عتر يحسر الحسر س			
1.0 %	3,42 dB							
0.1 %	4.29 dB			X				
0.01 %	4.59 dB	0.1%						
0.001 %	4.73 dB							
0.0001 %	4,84 dB	0.01 %						
and a	4.87 dB	0.001 2						
Peak	27.27 dBm							
		0.0001 0.00 dB Info BW 25.000 I	11/2			20.00 dB		Lo

n77(3700~3980 MHz)_25 M_PAR_Mid_BPSK_FullRB



	uplini DG Cor	ut Z:50 Ω Atten 20 r CCorr Preamp (g Ret. Int (S)		Center Freq: 3.840000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None	Center Frequency 3.840000000 GHz	Setting
etrics		2 Graph		a particular de la constitución de	CF Step 25.000000 MHz	1
Average Por	wer	Gaussian			Auto Man	
Arcitige 1 of	21.91 dBm				Freq Offset	1
	46,00 % at 0 dB	10 -			0 Hz	
10.0 %	2.36 dB					
1.0 %	4.47 dB	1-	$\langle \rangle$			
0.1 %	5.75 dB					
0.01 %	6.24 dB	n (%				
0.001 %	6.50 dB					
0.0001 %	6.71 dB	0.07 %				
	6.80 dB	់ បំពាំ %				
Peak	28.71 dBm					
		0.000 dB Info BW 25.000 MH:	z	20.00	dB	Lo

n77(3700~3980 MHz)_25 M_PAR_Mid_QPSK_FullRB



	uplina DG Cor		n 20 dB mp Off	Trig RF Burst #IF Gain Low	Center Freq: 3.84 Counts: 2.00 M/2 Radio Std: None		Center Frequency 3.840000000 GHz	Settings
etrics		2 Graph		-	Long and		CF Step 25.000000 MHz	
		Gaussian					Auto	
Average Po							Man	
	20.84 dBm						Freq Offset	
	44.39 % at 0 dB	10 5	1				0 Hz	
10.0 %	2.84 dB							
1.0 %	5.05 dB	1						
0.1 %	6.40 dB							
0.01 %	7.20 dB	0.1%						
0.001 %	7.47 dB							
0.0001 %	7.66 dB	0.01 %						
an (A)	7.67 dB	0.061 %						
Peak	28.51 dBm							
		0.0001				20.00.40		Lo
		0.00 dB Info BW 25.000	MHz			20.00 dB		

n77(3700~3980 MHz)_25 M_PAR_Mid_16QAM_FullRB



	supling DG Con		n 20 dB mb Olf	Trig RF Burst #IF Gain Low		g: 3 840000000 GHz 30 M/2 00 Mpt None	Center Frequ 3.84000000		ettings
etrics		2 Graph					CF Step 25.000000 N	AH7	
		Gaussian					Auto		
Average Po							Man		
	20.36 dBm						Freq Offset		
	43.84 % at 0 dB	10 5	1				0 Hz		
10.0 %	2.90 dB								
1.0 %	5.17 dB	1	_						
0.1 %	6.64 dB								
0.01 %	7.56 dB	0.1%							
0.001 %	7.95 dB								
0.0001 %	8,16 dB	0.01 %			χ				
	8.18 dB	ບໍ່ເບັດງ 😒							
Peak	28.54 dBm								
		0.0001 5							Lo
		0.00 dB Info BW 25.000	MHz			20.00 d	В		

n77(3700~3980 MHz)_25 M_PAR_Mid_64QAM_FullRB



	upling DG Con		n 20 dB Imp Oll	Trig: RF Burst #IF Gain: Low	Center Freq 3.8- Counts 2.00 M/2 Radio Std: None		Center Frequency 3.840000000 GHz	
etrics	*	2 Graph			Longer Mar		CF Step 25.000000 MHz	
		Gaussian					Auto	
Average Pov		100 %					Man	
	18.36 dBm						Freq Offset	
	43,56 % at 0 dB	10	1				0 Hz	
10.0 %	2.88 dB							
1.0 %	5.30 dB	1-						
0.1 %	6.84 dB							
0.01 %	7.63 dB	0.1%		$\rightarrow \wedge$				
0.001 %	8.29 dB							
		0.07 %						
0.0001 %	8.44 dB							
	8.52 dB	0.001 2						
Peak	26.88 dBm	0001						
		0.0001 5						Lo
		0.00 dB Info BW 25.000	MHZ			20.00 dB		10

n77(3700~3980 MHz)_25 M_PAR_Mid_256QAM_FullRB



	uplini DG Cor	ut Z:50 Q Atten: 20 r CCorr Preamp q Ref. Int (S)		Center Freq: 3.840000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None	Center Frequency 3.840000000 GHz	Setting
atrics	*	2 Graph Gaussian	.*		CF Step 25,000000 MHz Auto	
Average Pov	ver 22.47 dBm				Man Freq Offset	
	47.22 % at 0 dB	10 5			0 Hz	
10.0 %	1.91 dB					
1.0 %	3.47 dB	15				
0.1 %	4.12 dB		1×1	ي الله الجي الجي عن ا		
0.01 %	4.39 dB	0)*				
0.001 %	4.57 dB					
0.0001 %	4.72 dB	0.01 %				
1	4.76 dB	0.001 %				
Peak	27.23 dBm					
		0.000 dB 0.00 dB Info BW 30.000 MH	Iz III	20.00	dB	Lo

n77(3700~3980 MHz)_30 M_PAR_Mid_BPSK_FullRB



	upling DG Cor		20 dB np Off	Trig RF Burst #IF Gain Low	Center Freq: 3.840000000 GH Counts: 2.00 M/2.00 Mpt Radio Std: None		Center Frequency 3.840000000 GHz	Setting
etrics		2 Graph Gaussian	•		The second s		CF Step 30.000000 MHz Auto	
Average Pov		155 %					Man Man	
	21.98 dBm						Freq Offset	
	45,86 % at 0 dB	10 5					0 Hz	
10.0 %	2.33 dB							
1.0 %	4.45 dB							
0.1 %	5.58 dB							
0.01 %	5.99 dB	0.1%						
0.001 %	6.23 dB							
0.0001 %	6.40 dB	0.01 %						
-	6.41 dB	0.000 2						
Peak	28.39 dBm							
		0.00 dB Info BW 30.000	MHZ			20.00 dB		Lo

n77(3700~3980 MHz)_30 M_PAR_Mid_QPSK_FullRB



	Supling DG Cor		20 dB np Off	Trig: RF Burst #IF Gain: Low	Center Freq. 3 84000 Counts. 2 00 M/2 00 Radio Std. None		Center Fr 3.840000	equency 0000 GHz	Setting
etrics		2 Graph	•		Landon Martin	-	CF Step 30.00000	0 MHz	
		Gaussian					Auto		
Average Po		13.5					Man		
	21.01 dBm						Freq Offs	et	
	44.01 % at 0 dB	10 5					0 Hz		
10.0 %	2.85 dB								
1.0 %	5.06 dB	1							
0.1 %	6.42 dB								
0.01 %	7.00 dB	n (%							
0.001 %	7.32 dB								
0.0001 %	7.59 dB	0.01 %							
era.	7.60 dB	0.000 34							
Peak	28.61 dBm								
		0.0001 5				20.00 dB			Lo
		Info BW 30.000	MHz			20.00 dB	1		

n77(3700~3980 MHz)_30 M_PAR_Mid_16QAM_FullRB



	Suplina DG Con		n 20 dB mb Off	Trig: RF Burst #IF Gain: Low		eq. 3 840000000 GHz 00 M/2 00 Mpt None		Frequency 00000 GHz	Setting
etrics		2 Graph					CF Step	000 MHz	
		Gaussian					Aut	0	
Average Po							Mar		4
	20.50 dBm						Freq Off	set	
	43,36 % at 0 dB	10					0 Hz		
10.0 %	2.90 dB								
1.0 %	5.19 dB	1 5							
0.1 %	6.64 dB								
0.01 %	7.46 dB	n.) =							
0.001 %	7.84 dB								
0.0001 %	8,15 dB	0.01 %			X				
	8.19 dB	0.001 34							
Peak	28.69 dBm								
		0.0001 5							Lo
		0.00 dB Info BW 30.000	MHz			20.00	dB		

n77(3700~3980 MHz)_30 M_PAR_Mid_64QAM_FullRB





n77(3700~3980 MHz)_30 M_PAR_Mid_256QAM_FullRB



	uplini DG Cor	ut Z:50 Ω Atten: 20 r CCorr Preamp q Ref. Int (S)		Center Freq: 3 840000000 GHz Counts: 2 00 M/2 00 Mpt Radio Std: None	Center Frequency 3.840000000 GHz	Setting
etrics		2 Graph			CF Step 30.000000 MHz	
Conter mar Ma		Gaussian			Auto	
Average Pov	22.36 dBm				Man	
	46.60 % at 0 dB	10 5			Freq Offset 0 Hz	
	40,00 % at 0 ub					
10.0 %	2.13 dB					
1.0 %	3.87 dB	1%	$\langle \rangle$			
0.1 %	4.31 dB					
0.01 %	4.50 dB	0.) %				
0.001 %	4.62 dB					
0.0001 %	4,68 dB	0.01%				
	4.71 dB	0.000				
Peak	27.07 dBm					
		0.000 dB Info BW 40.000 MH	17	20.00	dB	Lo

n77(3700~3980 MHz)_40 M_PAR_Mid_BPSK_FullRB



	uplini DG Cor		n 20 dB mb Off	Trig RF Burst #IF Gain Low	Center Freq: 3.840000000 Counts: 2.00 M/2.00 Mpt Radio Std: None		Center Frequency 3.840000000 GHz	Setting
atrics	*	2 Graph Gaussian	•				CF Step 40.000000 MHz Auto	
Average Pov	ver 21.92 dBm						Man Freq Offset	
	44.04 % at 0 dB	10 5	1				0 Hz	
10.0 %	2.58 dB							
1.0 %	4.83 dB	1.5	/					
0.1 %	5.72 dB							
0.01 %	5.96 dB	0.1%						
0.001 %	6.13 dB			λ				
0.0001 %	6.22 dB	0.01 %						
-	6.26 dB	0.001						
Peak	28.18 dBm							-
		0.000 dB 0.00 dB Info BW 40.000	MHz			20.00 dB		Lo

n77(3700~3980 MHz)_40 M_PAR_Mid_QPSK_FullRB



	uplini DG Cor		n 20 dB mb Olf	Trig: RF Burst #IF Gain: Low	Counts 2 00 M/ Radio Std None		Center Frequency 3.840000000 GHz	Settings
etrics		2 Graph	*				CF Step 40.000000 MHz	
		Gaussian					Auto	
Average Pov	20.85 dBm						Man Erea Officet	-
	42.01 % at 0 dB	10 5					Freq Offset 0 Hz	
10.0 %	3.11 dB							
1.0 %	5.41 dB							
0.1 %	6.43 dB							
0.01 %	6.93 dB	0.1%						
0.001 %	7.22 dB							
0.0001 %	7.42 dB	0.01 %						
	7.42 dB	0.000						
Peak	28.27 dBm							
		0.000 dB Info BW 40.000	MHz			20.00 dB		Lo

n77(3700~3980 MHz)_40 M_PAR_Mid_16QAM_FullRB



	uplina DG Cor		1 20 dB mb Olf	Trig: RF Burst #IF Gain: Low	3 840000000 GHz) M/2 00 Mpt Ione	Center Fre 3.8400000		Setting
atrics		2 Graph Gaussian	•			CF Step 40.000000	MHz	
Average Por		100 %				Man		
	20.32 dBm					Freq Offset		
	41.21 % at 0 dB	10 5	Z			0 Hz		
10.0 %	3.19 dB							
1.0 %	5.53 dB	1		//				
0.1 %	6.62 dB							
0.01 %	7.34 dB	0.1%						
0.001 %	7.63 dB							
0.0001 %	7.85 dB	0.01 %						
and a	7.87 dB	0.001 %						
Peak	28.19 dBm							
		0.000 dB Info BW 40.000	MHz		20.00 df	5		Lo

n77(3700~3980 MHz)_40 M_PAR_Mid_64QAM_FullRB





n77(3700~3980 MHz)_40 M_PAR_Mid_256QAM_FullRB



	upuna DG Cor	it Z 50 Ω Atten r CCorr Pream g Ret. Int (S)			: 3 840000000 GHz 3 M/2 00 Mpt Ione	Center Frequency 3.840000000 GHz	Setting
etrics	*	2 Graph Gaussian				CF Step 40.000000 MHz Auto	
Average Por	22.70 dBm					Man Freq Offset	
	48,09 % at 0 dB	10 5	\mathbf{X}			0 Hz	
10.0 %	1.86 dB						
1.0 %	3.50 dB						
0.1 %	4.05 dB				_		
0.01 %	4.28 dB	n) :					
0.001 %	4.44 dB			\rightarrow			
0.0001 %	4.53 dB	0.01 %					
D	4.57 dB	0.001 %		$\langle \rangle$			
Peak	27.27 dBm						
		0.000 dB 0.00 dB Info BW 50.000 M	1Hz		20.00 dB		Lo

n77(3700~3980 MHz)_50 M_PAR_Mid_BPSK_FullRB



	upling DG Cor	ut Z:50 Q Atten 20 r CCorr Preamb g Ret. Int (S)		Center Freq: 3 840000000 GHz Counts: 2 00 M/2 00 Mpt Radio Std: None	Center Frequency 3.840000000 GHz	Setting
etrics		2 Graph			CF Step 50.000000 MHz	1
Average Pov	ver	Gaussian 100 %			Auto Man	
	22.21 dBm				Freq Offset	
	46.14 % at 0 dB	10 5			0 Hz	
10.0 %	2.31 dB					
1.0 %	4.44 dB	1-				
0.1 %	5.61 dB					
0.01 %	6.00 dB	0.1%				
0.001 %	6.24 dB					
0.0001 %	6.54 dB	0.01 %				
	6.68 dB	0.001 %				
Peak	28.89 dBm					-
		0.000 dB Info BW 50.000 MH	z	20.00	dB	Lo

n77(3700~3980 MHz)_50 M_PAR_Mid_QPSK_FullRB



All	uplina DG Cor		Bb 05 DD 01	Trig. RF Burst #IF Gain: Low	Center Freq. 3 84000 Counts: 2 00 M/2 00 Radio Std. None		Center Fre 3.840000		Settings
etrics		2 Graph			Longer and	-	CF Step 50.00000) MHz	
		Gaussian					Auto		
Average Por							Man		
	21.20 dBm						Freq Offse		
	44,37 % at 0 dB	10	11				0 Hz		
10.0 %	2.81 dB								
1.0 %	5.03 dB	1							
0.1 %	6.38 dB								
0.01 %	6.97 dB	n 1 %							
0.001 %	7.28 dB								
0.0001 %	7.40 dB	0.01 %							
	7.46 dB	0.001 34							
Peak	28.66 dBm	V.Vul							
		0.00015					4		Lo
		0.00 dB Info BW 50.000	MHz			20.00 dB			

n77(3700~3980 MHz)_50 M_PAR_Mid_16QAM_FullRB



YSIGHT In	oupling DG Con		n 20 dB mb Oll	Trig RF Burst #IF Gain Low		g: 3.840000000 GHz 00 M/2 00 Mpt None		requency 0000 GHz	Setting
atrics	*	2 Graph			A DECEMPTOR		CF Step 50 0000	00 MHz	1
		Gaussian					Auto	3	
Average Po							Man		4
	20.73 dBm						Freq Offs	set	
	43.83 % at 0 dB	10	X				0 Hz		
10.0 %	2.92 dB								
1.0 %	5.20 dB	1 %							
0.1 %	6.63 dB								
0.01 %	7.31 dB	D.1 %							
0.001 %	7.58 dB								
0.0001 %	7.80 dB	0.01 %							
ara.	7.92 dB	0.001 34							
Peak	28.65 dBm								
		0.0001 s				20.00 0	1B		Lo
		Info BW 50.000	MHz			20.00 0			

n77(3700~3980 MHz)_50 M_PAR_Mid_64QAM_FullRB



	upling DG Con		1 20 dB mb Off	Trig: RF Burst #IF Gain: Low	Counts 2 00 1 Radio Std No		Center Fr 3.84000	equency 0000 GHz	Settings
etrics		2 Graph	•				CF Step 50.0000	00 MHz	1
Average Pov	ver	Gaussian 100 %					Auto Man		
	18.66 dBm 43.59 % at 0 dB						Freq Offs 0 Hz	et	1
	43,59 % at 0 dB	10 5	1				UT IL		
10.0 %	2.90 dB								
1.0 %	5.26 dB			$\langle \rangle =$					
0.1 %	6.72 dB								
0.01 %	7.71 dB	0.1 %							
0.001 %	8,45 dB								
0.0001 %	8.72 dB	0.01 %							
Peak	8.84 dB	0.001 %							
reak	27.50 dBm								-
		0.00 dB Info BW 50.000	MHz			20.00 d	В		Loc

n77(3700~3980 MHz)_50 M_PAR_Mid_256QAM_FullRB



	uplina DG Con	ut Z:50 Ω Atten r CCorr Pream g Ret. Int (S)		an Low C	Center Freq: 3.840000000 GH Counts: 2.00 M/2.00 Mpt Ladio Std: None	Cente	er Frequency 0000000 GHz	Setting
atrics Average Pov	*	2 Graph Gaussian					tep 00000 MHz Auto Man	
	22.62 dBm 48,10 % at 0 dB	10 5					Offset	
10.0 % 1.0 % 0.1 % 0.01 %	1.80 dB 3.40 dB 4.06 dB 4.37 dB	1						
0.001 % 0.0001 %	4.56 dB 4,65 dB	0.01 %						
Peak	4.72 dB 27.34 dBm	0.001 %						
		0.000 dB 0.00 dB Info BW 60.000 f	инz		2	0.00 dB		Lo

n77(3700~3980 MHz)_60 M_PAR_Mid_BPSK_FullRB



	upling DG Cor	ut Z:50 Ω Atten r CCorr Pream α Ret. Int (S)		RF Burst iain: Low	Center Freq: 3 840000000 Counts: 2 00 M/2 00 Mpt Radio Std: None	Gi iz	Center Frequency 3.840000000 GHz	Setting
etrics		2 Graph					CF Step 60.000000 MHz	
Average Pov	var	Gaussian					Auto Man	
Average Por	22.15 dBm						Freq Offset	
	46.22 % at 0 dB	10 5					0 Hz	
10.0 %	2.23 dB							
1.0 %	4.42 dB	1 %						
0.1 %	5.55 dB							
0.01 %	5.95 dB	01%		\rightarrow				
0.001 %	6.14 dB							
0.0001 %	6.23 dB	0.01%						
	6.31 dB	0.001 34						
Peak	28.46 dBm	V/0612						
		0.00 dB Info BW 60.000 M	4Hz			20.00 dB		Lo

n77(3700~3980 MHz)_60 M_PAR_Mid_QPSK_FullRB



	iplina DG Cor	r CCorr Prear g Ret-Int (S)	np Off	Trig: RF Burst #IF Gain: Low	Center Freq: 3 8400 Counts: 2 00 M/2 00 Radio Std: None		Center Frequen 3.840000000 G	
etrics		2 Graph			Long Contraction		CF Step 60.000000 MH;	
		Gaussian					Auto	
Average Pow	20.97 dBm						Man	
							Freq Offset 0 Hz	
4	4,49 % at 0 dB	10	11				UHZ	
10.0 %	2.77 dB			\mathbf{X}				
1.0 %	5.05 dB	1						
0.1 %	6.41 dB							
0.01 %	6.99 dB	0 T %						
0.001 %	7.40 dB							
0.0001 %	7.57 dB	0.01 %						
	7.63 dB	0.001 %						
Peak	28.60 dBm							
		0.000 dB Info BW 60.000				20.00 dB		Lo

n77(3700~3980 MHz)_60 M_PAR_Mid_16QAM_FullRB



	upling DC Con		n 20 dB mp Off	Trig: RF Burst #IF Gain: Low		g: 3 840000000 GHz)0 M/2 00 Mpt None	Center Fr 3.840000	equency 0000 GHz	Setting
etrics		2 Graph					CF Step 60.00000	0 MHz	
		Gaussian					Auto		
Average Pov							Man		
	20.51 dBm						Freq Offs	et	
	43.85 % at 0 dB	10 5					0 Hz		
10.0 %	2.82 dB								
1.0 %	5.19 dB	1 =							
0.1 %	6.63 dB								
0.01 %	7.45 dB	n.1 %							
0.001 %	7.80 dB	1.62.50							
0.0001 %	7.89 dB	0.01 %			X				
	7.93 dB				A -				
Peak	28.44 dBm	0.001 55							
	20.44 0Dm								
		0.00 dB Info BW 60.000	MHZ			20.00	iB		Loc

n77(3700~3980 MHz)_60 M_PAR_Mid_64QAM_FullRB



	upling DG Con		n 20 dB Imp Oli	Trig: RF Burst #IF Gain: Low	Counts 2 00 Radio Std No		Center Fr 3.840000	equency 0000 GHz	Settings
etrics	*	2 Graph Gaussian	•				CF Step 60.00000 Auto		
Average Pov	ver 18.52 dBm						Man Freq Offs	pt.	
4	43,74 % at 0 dB	10 5					0 Hz		
10.0 %	2.82 dB								
1.0 %	5.22 dB								
0.1 %	6.78 dB								
0.01 %	7.78 dB	0.)*							
0.001 %	8.33 dB								
0.0001 %	8.65 dB	0.01 %							
D	8.76 dB	0.001 %							
Peak	27.28 dBm								
		0.0001 0.00 dB Info BW 60.000	MHz			20.00 d	в		Lo

n77(3700~3980 MHz)_60 M_PAR_Mid_256QAM_FullRB



A	oupling DG Co			ig: RF Burst F Gain: Low	Center Freq. 3 840000000 G Counts: 2 00 M/2 00 Mpt Radio Std: None	C	enter Frequency 3.840000000 GHz	Settings
/etrics		2 Graph			a harring of the County of		F Step 60.000000 MHz	1
		Gaussian					Auto	
Average Po		10.5		_			Man	
	22.53 dBm						req Offset	
	45,79 % at 0 dB	10					Hz	
10.0 %	2.06 dB							
1.0 %	4.06 dB	1%		/				
0.1 %	4.70 dB			\rightarrow				
0.01 %	5.00 dB	0.1%		\rightarrow				
0.001 %	5.19 dB							
0.0001 %	5,30 dB	0.01 %			X			
ara.	5.33 dB	0.001 %						
Peak	27.86 dBm							
		0.0001 5						Loc
		0.00 dB Info BW 70.000	MHz			20.00 dB		

n77(3700~3980 MHz)_70 M_PAR_Mid_BPSK_FullRB



	uplina DG Cor		20 dB nb Off	Trig: RF Burst #IF Gain: Low	Center Freq: 3 840000 Counts: 2 00 M/2 00 M Radio Std: None		Center Frequency 3.840000000 GHz	Setting
etrics		2 Graph Gaussian	•				CF Step 70.000000 MHz	
Average Po	22.04 dBm 44.51 % at 0 dB						Man Freq Offset 0 Hz	
	44,5 i % al 0 uB	10 5						
10.0 %	2.55 dB							
1.0 %	4.58 dB							
0.1 %	5.61 dB				أتحدين أتحدينا عديين			
0.01 %	6.03 dB	n 1 4		\backslash				
0.001 %	6.30 dB							
0.0001 %	6.49 dB	0.01 %						
Peak	6.55 dB	0.001 %						
r cak	28.59 dBm							
		0.000 dB Info BW 70.000	MHz			20.00 dB		Lo

n77(3700~3980 MHz)_70 M_PAR_Mid_QPSK_FullRB



	iplina DG Cor) 20 dB mb Olf	Trig RF Burst #IF Gain Low	Center Freq: 3 840 Counts: 2 00 M/2 0 Radio Std. None		Center Frequency 3.840000000 GHz	Settings
etrics		2 Graph		-			CF Step 70.000000 MHz	
		Gaussian					Auto	
Average Pov	21.08 dBm						Man	4
							Freq Offset 0 Hz	
4	2.74 % at 0 dB	10 5	1				UTIE	
10.0 %	2.97 dB							
1.0 %	5.04 dB	1		$\langle \rangle =$				
0.1 %	6.41 dB			//				
0.01 %	7.00 dB	0.1%						
0.001 %	7.30 dB							
0.0001 %	7.45 dB	0.01 %			X			
	7.48 dB	0.001 34						
Peak	28.56 dBm							
		0.000 dB Info BW 70.000				20.00 dB		Lo

n77(3700~3980 MHz)_70 M_PAR_Mid_16QAM_FullRB



YSIGHT	oupling DG Cor		n 20 dB mb Off	Trig: RF Burst #IF Gain: Low	Center Freq: 3.8 Counts: 2.00 M Radio Std: None	2 00 Mpt	Center Frequence 3.840000000 G	
etrics		2 Graph	*				CF Step 70.000000 MHz	
		Gaussian					Auto	
Average Po	20.64 dBm						Man	
	42.32 % at 0 dB						Freq Offset 0 Hz	
	42.52 % at 0 ub	10 5	1				- The	
10.0 %	3.11 dB							
1.0 %	5.18 dB							
0.1 %	6.59 dB							
0.01 %	7.33 dB	0.1%						
0.001 %	7.59 dB							
0.0001 %	7.84 dB	0.01 %						
	8.01 dB	0.001 34						
Peak	28.65 dBm							
		0.0001 S. 0.00 dB				20.00 dB		Lo
		Info BW 70.000	MHz					

n77(3700~3980 MHz)_70 M_PAR_Mid_64QAM_FullRB



	uplina DG Cor		mb Off	Trig RF Burst #IF Gain Low	Center Freq: 3.8 Counts: 2.00 M Radio Std: None	2 00 Mpt	Center Frequence 3.840000000 Gi	
etrics		2 Graph	•				CF Step 70.000000 MHz	
Average Por	wer	Gaussian					Auto Man	
Arenagerio	18.52 dBm						Freq Offset	
	42.03 % at 0 dB	10 5					0 Hz	
10.0 %	3.10 dB							
1.0 %	5.23 dB	1%						
0.1 %	6.70 dB							
0.01 %	7.80 dB	0.1%						
0.001 %	8.46 dB							
0.0001 %	8.72 dB	0.01 %						
	8.75 dB	ບໍ່ເບັດງ 😒						
Peak	27.27 dBm							
		0.00 dB Info BW 70.000	MHz			20.00 dB		Lo

n77(3700~3980 MHz)_70 M_PAR_Mid_256QAM_FullRB



	uplina DG Con	ut Z 50 Ω Atten 2t r CCorr Preamb g Ret. Int (S)		Center Freq: 3.84000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None	Center Frequency 3.840000000 GHz	Settings
atrics Average Pow	•	2 Graph Gaussian			CF Step 70.000000 MHz Auto Man	
	22.77 dBm 46.57 % at 0 dB				Freq Offset 0 Hz	
10.0 % 1.0 %	2.11 dB 3.92 dB					
0.1 % 0.01 %	4.63 dB 4.84 dB	0) %				
0.001 % 0.0001 %	5.01 dB 5.18 dB	0.01 %				
Peak	5.28 dB 28.05 dBm) ()(d) %				
		0.000 dB 0.00 dB Info BW 80.000 Mł	-tz	20.00	dB	La

n77(3700~3980 MHz)_80 M_PAR_Mid_BPSK_FullRB



	uplini DG Cor		20 dB nb Oli	Trig: RF Burst #IF Gain: Low	Center Freq: 3.840000000 Counts: 2.00 M/2.00 Mpt Radio Std: None	C C	Center Frequency 3.840000000 GHz	Setting
trics		2 Graph					CF Step 80.000000 MHz	
		Gaussian					Auto	
Average Po			_				Man	
	22.26 dBm						req Offset	
	44.99 % at 0 dB	10					0 Hz	
10.0 %	2.58 dB							
1.0 %	4.65 dB	1						
0.1 %	5.48 dB							
0.01 %	5.85 dB	0.1%						
0.001 %	6.11 dB							
0.0001 %	6.23 dB	0.01 %						
arrai	6.43 dB	0.001 %						
Peak	28.69 dBm							
		0.0001 %				20.00 dB		Lo
		Info BW 80.000	MHz					

n77(3700~3980 MHz)_80 M_PAR_Mid_QPSK_FullRB



	uplina DG Cor		n 20 dB mp Off	Trig: RF Burst #IF Gain: Low	Counts 2 00 1 Radio Std No		Center Frequency 3.840000000 GH	
etrics		2 Graph			Long of the		CF Step 80.000000 MHz	
		Gaussian					Auto	
Average Po							Man	
	21.14 dBm						Freq Offset	
	42.96 % at 0 dB	10	N				0 Hz	
10.0 %	3.05 dB							
1.0 %	5.11 dB	1 %						
0.1 %	6.37 dB							
0.01 %	6.91 dB	0.) *S						
0.001 %	7.17 dB							
0.0001 %	7.32 dB	0.01 %			X.			
	7.37 dB	0.061 34			\setminus			
Peak	28.51 dBm							
		0.0001						Lo
		0.00 dB Info BW 80.000	MHz			20.00 dE	8	

n77(3700~3980 MHz)_80 M_PAR_Mid_16QAM_FullRB



	upling DG Cor		n 20 dB mb Off	Trig: RF Burst #IF Gain: Low	Center Freq: 3 8400 Counts: 2 00 M/2 00 Radio Std: None		Center Frequency 3.840000000 GH	
etrics		2 Graph Gaussian	•	_			CF Step 80.000000 MHz	
Average Por	wer	100 %					Auto Man	
	20.69 dBm						Freq Offset	
	42.33 % at 0 dB	10 5					0 Hz	
10.0 %	3.16 dB							
1.0 %	5.22 dB	1 =						
0.1 %	6.58 dB							
0.01 %	7.27 dB	0.1%						
0.001 %	7.61 dB							
0.0001 %	7.77 dB	0.01 %						
-	7.91 dB	0.001 %						
Peak	28.60 dBm							
		0.000 dB Info BW 80.000	MHz			20.00 dB		Lo

n77(3700~3980 MHz)_80 M_PAR_Mid_64QAM_FullRB



YSIGHT In	Supling DG Cor		n 20 dB Imp Off	Trig: RF Burst #IF Gain: Low	Counts 2 00 M Radio Std Non		Center Freq 3.84000000		Setting
etrics		2 Graph	*		Lange Ma		CF Step 80.000000	MHz	
		Gaussian					Auto		
Average Po	18.57 dBm						Man		
	42.18 % at 0 dB	10 5					Freq Offset 0 Hz		
10.0 %	3.14 dB								
1.0 %	5.23 dB								
0.1 %	6.72 dB		_						
0.01 %	7.85 dB	01%							
0.001 %	8.55 dB								
0.0001 %	8,90 dB	0.01 %							
	9.07 dB	0.061 %							
Peak	27.64 dBm								
		0.0001 s				20.00 dE			Loc
		Info BW 80.000	MHz			20.00 00			

n77(3700~3980 MHz)_80 M_PAR_Mid_256QAM_FullRB



	upana DG Cor			Trig: RF Burst #IF Gain: Low	Center Freq: 3 8400 Counts: 2 00 M/2 00 Radio Std: None		Center Frequency 3.840000000 GHz	Setting
atrics		2 Graph Gaussian	•				CF Step 80.000000 MHz	
Average Por	wer	100 %					Auto Man	
	22.67 dBm 46,92 % at 0 dB	10 %					Freq Offset 0 Hz	
10.0 %	2.12 dB	1						
1.0 % 0.1 %	4.08 dB 4.63 dB							
0.01 %	4.91 dB	0 %		\sim				
0.001 %	5.10 dB			- \				
0.0001 %	5.28 dB	0.01%		-	X			
Peak	5.40 dB	0.001 %						
	28.07 dBm							
		0.000 dB 0.00 dB Info BW 90.000	MHz			20.00 dB		La

n77(3700~3980 MHz)_90 M_PAR_Mid_BPSK_FullRB



	upling DG Cor	it Z:50 Ω Atten r CCorr Pream g Ret. Int (S)		ain: Low	Center Freq: 3.840000000 GHz Counts: 2.00 M/2.00 Mpt Radio Std: None	Center Fre 3.8400000		etting
atrics		2 Graph				CF Step 90.000000) MHz	
		Gaussian				Auto		
Average Pov	22.20 dBm					Man		
	45.42 % at 0 dB	105				Freq Offse 0 Hz		
10.0 %	2.58 dB							
1.0 %	4.58 dB	19						
0.1 %	5.51 dB							
0.01 %	5.91 dB	0)%						
0.001 %	6.16 dB							
0.0001 %	6.29 dB	0.01 %		×.				
ara.	6.37 dB	0.001 %						
Peak	28.57 dBm							-
		0.000 dB 0.00 dB Info BW 90.000 N	1Hz		20	.00 dB		Lo

n77(3700~3980 MHz)_90 M_PAR_Mid_QPSK_FullRB



	upling DG Cor		20 dB Trig RF np Off #IF Gain		eg: 3 840000000 GHz 00 M/2 00 Mpt None	Center Frequency 3.840000000 GHz	Setting
etrics		2 Graph				CF Step 90.000000 MHz	
		Gaussian				Auto	
Average Pov		103 5				Man	
	21.13 dBm					Freq Offset	
	43.25 % at 0 dB	10 5				0 Hz	
10.0 %	3.03 dB						
1.0 %	5.05 dB	1 -					
0.1 %	6.35 dB						
0.01 %	6.85 dB	n) ::					
0.001 %	7.15 dB						
		0.07 %					
0.0001 %	7.25 dB	0.01 18		X			
	7.33 dB	0.001 %					
Peak	28.46 dBm	V.Wal Same					
1							
		0.00 dB Info BW 90.000	NAL Ja		20.00 dB		Lo

n77(3700~3980 MHz)_90 M_PAR_Mid_16QAM_FullRB



	supling DG Cor		20 dB np Oll	Trig: RF Burst #IF Gain: Low	Counts 2 00 N Radio Std Nor			requency 00000 GHz	Setting
atrics		2 Graph					CF Step	000 MHz	
		Gaussian					Aut	o	
Average Po							Mar		
	20.60 dBm						Freq Off	set	
	42.90 % at 0 dB	10 %	Z				0 Hz		
10.0 %	3.16 dB								
1.0 %	5.19 dB	14							
0.1 %	6.61 dB								
0.01 %	7.31 dB	n i 🖏							
0.001 %	7.62 dB								
0.0001 %	7.74 dB	0.07 %							
Peak	7.80 dB	0.001 34							
- Cen	28.40 dBm								-
		0.000 t =				20.00 dE			Lo
		Info BW 90.000	MHz			20.00 02			

n77(3700~3980 MHz)_90 M_PAR_Mid_64QAM_FullRB





n77(3700~3980 MHz)_90 M_PAR_Mid_256QAM_FullRB



	upina DG Cor		n 20 dB mb Off	Trig: RF Burst #IF Gain: Low	Center Freq: 3.8 Counts: 2.00 M/ Radio Std: None	2 00 Mpt	Center Freque 3.840000000		etting
atrics		2 Graph	•				CF Step 90.000000 N	IHz.	
Average Po	wer	Gaussian					Auto Man		
riteringer e	22.65 dBm						Freq Offset		
	47.68 % at 0 dB	10					0 Hz		
10.0 %	1.89 dB								
1.0 %	3.70 dB	1%							
0.1 %	4.63 dB								
0.01 %	5.14 dB	0.1%							
0.001 %	5.41 dB								
0.0001 %	5,50 dB	0.01 %			X.				
	5.54 dB	ບໍ່ ບໍ່ມີກ່າ 😒							
Peak	28.19 dBm								_
		0.000 dB Info BW 100.00	MHz			20.00 dB			Lo

n77(3700~3980 MHz)_100 M_PAR_Mid_BPSK_FullRB



	upina DG Con	ut Z:50 Ω Atten 1 r CCorr Preami g Ret. Int (S)		Center Freq: 3 840000000 GHz Counts: 2 00 M/2 00 Mpt Radio Std: None	Center Frequency 3.840000000 GHz	Setting
atrics		2 Graph Gaussian			CF Step 100.000000 MHz Auto	
Average Po	wer 22.10 dBm				Man Freq Offset	
	46,44 % at 0 dB	10 5			0 Hz	
10.0 %	2.32 dB					
1.0 %	4.48 dB					
0.1 %	5.69 dB					
0.01 %	6.31 dB	n i %				
0.001 %	6.61 dB					
0.0001 %	6.79 dB	0.01 %				
Deel	6.98 dB	0.001 34				
Peak	29.08 dBm					-
		0.00 dB Info BW 100.00 M	1Hz	20.00	dB	La

n77(3700~3980 MHz)_100 M_PAR_Mid_QPSK_FullRB





n77(3700~3980 MHz)_100 M_PAR_Mid_16QAM_FullRB



	uplini DG Cor		1 20 dB mb Off	Trig: RF Burst #IF Gain: Low	Counts 2 00 M Radio Std: Non		Center Fre 3.840000		Setting
atrics		2 Graph Gaussian	•	_	1		CF Step 100.0000 Auto	00 MHz	
Average Por		100 %					Man		
	20.59 dBm						Freq Offse	t	
	44.08 % at 0 dB	10 5	1				0 Hz		
10.0 %	2.91 dB								
1.0 %	5.18 dB								
0.1 %	6.63 dB								
0.01 %	7.52 dB	0.1%							
0.001 %	8.04 dB								
0.0001 %	8.27 dB	0.01 %							
	8.37 dB	0.001 %			X III				
Peak	28.96 dBm								-
		0.000 dB Info BW 100.00	MHz			20.00 dB			Lo

n77(3700~3980 MHz)_100 M_PAR_Mid_64QAM_FullRB





n77(3700~3980 MHz)_100 M_PAR_Mid_256QAM_FullRB



Spectrum Analyzer 1	+					Ö	Frequency	* 5,
	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3 840000 Avg Hold: 50/50 Radio Std: None	000 GHz	Contract of the local division of the local	requency 0000 GHz	Settings
Graph	R	ef Lvi Offset 27				Span 20.000	MHz	
cale/Div 10.0 dB og 30.0 20.0		ef Value 40.00	an .			CF Step 2.00000 Auto		
0.00				- And		Mar Freq Off	i	
0.0 0.0				1 mm	PEAK	0 Hz		
50.0 enter 3.84000 GHz Res BW 200.00 kHz	4	Video BW 820.	00 kHz		Span 20 MHz ms (1001 pts)			
Metrics T								
Occupied Bandwidth 8.580	07 MHz		Total Power	29.8	dBm			
Transmit Freq Error x dB Bandwidth	-16.687 kH 9.913 MH		% of OBW Pow x dB		00 % 00 dB			Loca
	Mar 21, 2024 8:32:44 AM							

n77(3700~3980 MHz)_10 M_OBW_Mid_BPSK_FullRB



occupied Div	+						Ö	Frequency	y • E
	Input Z: 50 Q Corr CCorr Freq Ret: Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	Center Free Avg/Hold 5 Radio Std) GHz		Frequency 00000 GHz	Settings
Graph	R	ef Lvi Offset 27					Span 20.000	MHz	
Cale/Div 10.0 dB		ef Value 40.00	dBm				CF Step 2.0000 Aut	00 MHz	
10.0 0.00 10.0 20.0				M	Mirriel weeks	PEAK	Ma Freq Off 0 Hz		
30 0 40.0 50.0 Center 3,84000 GHz		Video BW 820.				pan 20 MHz			
Res BW 200.00 kHz		VILLEO BVV 820.		#Sv	veep 50.0 ms				
Metrics Occupied Bandwidth 8.620	08 MHz		Total Power		29.4 dE	3m			
Transmit Freq Error x dB Bandwidth	-6.734 kH 9.972 MH		% of OBW Pov x dB	ver	99.00 -26.00				Lo
1501	Mar 21, 2024 8:33:18 AM								

n77(3700~3980 MHz)_10 M_OBW_Mid_QPSK_FullRB



EYSIGHT Input RE Company Dis- PASS Graph Cale/Div 10.0 dB	Input Z: 50 Ω Gorr CCorr Freq Ret: Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off	Center Freq: 3.84000000	0 GHz			
Graph 🔹	nin c Auapiwe		#IF Gain Low	AvgiHold 50/50 Radio Std None		Contract of the local division of the local	requency 0000 GHz	Settings
		Ref LvI Offset 27				Span 20.000 (MHz.	
		Ref Value 40.00 (CF Step 2.00000 Auto		
000000	Jan		n-toneway way allo	men -		Man Freq Offs	i i	
0.0 0-0 0.0 0.0				mond	PEAR	0 Hz		
enter 3.84000 GHz Res BW 200.00 kHz		#Video BW 820.	00 kHz	s #Sweep 50.0 m	ipan 20 MHz is (1001 pts)			
Metrics 1								
Occupied Bandwidth 8.672	23 MHz		Total Power	28.4 d	Bm			
Transmit Freq Error x dB Bandwidth	-7.510 k 10.05 M		% of OBW Pow x dB	ver 99.00 -26.00				Loca
15011	Mar 21, 2024 8:33:50 AM	0						

n77(3700~3980 MHz)_10 M_OBW_Mid_16QAM_FullRB



CL Augn Auto Freq Ref. Int (S) #IF Gain Low Radio Std: None 3.84000000 GHz V PASS NFE Adaptive Spain 20.000 MHz Spain 20.000 MHz Graph Ref Value 40.00 dBm Ref Value 40.00 dBm CF Step 2000000 MHz Auto 000000000000000000000000000000000000	pectrum Analy Occupied BW		+					Q	Frequenc	y 🔹 🗧
Graph Ref Lvi Offset 27.92 dB icale/Div 10.0 dB Ref Value 40.00 dBm 200 Ref Value 40.00 dBm	L ++-	Coupling Tres	Corr CCorr Freq Ref. Int (S)		Gale: Off	AvgiHold 50)/50			Settings
Og Of Step 2.000000 MHz 200 Of Step PEAR PEAR PEAR PEAR Preq Offset 0 Hz Span 20 MHz #Sweep 50.0 ms (1001 pts) Press Pear Occupied Bandwidth 8.6626 MHz Transmit Freq Error -31.382 kHz % of OBW Power 99.00 %	Graph							and the second se		
Auto Auto Auto Man Freq Offset 042 0 0 0 0 0 0 0 0 0 0 0 0 0	.0g 30.0	dB		Ref Value 40.00	dBm				000000 MHz	1
Pred Offset Hz Pred O	10.0		Jananen	-porsoner	sactes and company allow	non a				
40 0 50 0 Center 3.84000 GHz #Video BW 820.00 kHz Span 20 MHz #Res BW 200.00 kHz #Sweep 50.0 ms (1001 pts) 2 Metrics Occupied Bandwidth 8.6626 MHz Total Power 27.9 dBm Transmit Freq Error -31.382 kHz % of OBW Power 99.00 %	10.0	and a start and a start and a start a st					mangement when			
#Res BW 200.00 kHz #Sweep 50.0 ms (1001 pts) 2 Metrics * Occupied Bandwidth 8.6626 MHz Total Power 27.9 dBm Transmit Freq Error -31.382 kHz % of OBW Power 99.00 %	-50.0	GH7		#Video BW 820.	00 kHz		Span 20	MHz		
Occupied Bandwidth 8.6626 MHz Total Power 27.9 dBm Transmit Freq Error -31.382 kHz % of OBW Power 99.00 %				#VIGEO BVV 020.		#Sw				
			26 MHz		Total Power		27.9 dBm			
						ver				Loc

n77(3700~3980 MHz)_10 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					Frequenc	y + 👬
	input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Ott	Trig: Free Run Gate: Otf #IF Gain: Low	Center Freq: 3.840000000 AvgiHold: 50/50 Radio Std: None	C. C	Center Frequency 3.840000000 GHz	Settings
Graph	1	Ref LvI Offset 27				Span 20.000 MHz	
cole/Div 10.0 dB		Ref Value 40.00				CF Step 2.000000 MHz Auto]
0.00 10.0 20.0 30.0 30.0 40.0	naward .			his Two anents - chesting		Man Freq Offset 0 Hz	
50.0 Senter 3.84000 GHz Res BW 200.00 kHz		#Video BW 820.	00 kHz	Spa #Sweep 50.0 ms	an 20 MHz (1001 pts)		
Metrics Occupied Bandwidth 8.684	47 MHz		Total Power	26.0 dBr	n		
Transmit Freq Error x dB Bandwidth	-7.546 ki 9.925 Mi		% of OBW Pov x dB	wer 99.00 % -26.00 di			Loca
500	Mar 21, 2024 8:34:57 AM						

n77(3700~3980 MHz)_10 M_OBW_Mid_256QAM_FullRB



Data Source NFE Adaptive 1 Graph Ref Lvi Offset 27.92 dB Scale/Div 10.0 dB Ref Value 40.00 dBm Log Graph 100 Graph <th colspan="2"></th> <th colspan="2"></th> <th>Center Frequency 3.840000000 GHz</th> <th>Settings</th>					Center Frequency 3.840000000 GHz	Settings
09 200 200 200 200 200 200 200 200 200 2	Graph T	Ref Lvi Offset 2			and the second se	
PEAK PEAK PEAK PEAK PEAK PEAK PEAK PEAK	0g 30 0 20.0				3.000000 MHz	
50.0 Penter 3.84000 GHz #Video BW 1.2000 MHz Span 30 MHz Res BW 300.00 kHz #Sweep 50.0 ms (1001 pts)	10.0 20.0 30.0				Freq Offset	
Metrics •	enter 3,84000 GHz	#Video BW 1.2				
Occupied Bandwidth Total Power 30.3 dBm 12.960 MHz Total Power 39.00 % Transmit Freq Error -365.23 kHz % of OBW Power 99.00 % x dB Bandwidth 14.32 MHz x dB -26.00 dB	Occupied Bandwidt 12 Transmit Freq Erro	.960 MHz r -365.23 kHz	% of OBW Power	99.00 %		Loc

n77(3700~3980 MHz)_15 M_OBW_Mid_BPSK_FullRB



AvgiHold 50/50 Center Frequency Setting	Gate Off A	Atten 20 dB Preamp Off	Input Z 50 Q Corr CCorr Freq Ret Int (S) NFE Adaptive	Input_RF Coupling DC: Align Auto	KEYSIGHT	
Span 30,000 MHz	And and harden	Ref LvI Offset 27 Ref Value 40.00		T dB	Graph Scale/Div 10.0	
CF Step 3.000000 MHz				uв	20.0	
Auto		ware no file allow from	June		10.0	
PEAR 0 Hz						
					30-0 40.0 50.0	
Span 30 MHz #Sweep 50.0 ms (1001 pts)	00 MHz	#Video BW 1.200			Center 3,8400 Res BW 300.	
					2 Metrics	
ower 30.0 dBm	Total Power		1 980 MHz	ied Bandwidti 12.1	Occuj	
3W Power 99.00 % -26.00 dB	% of OBW Power x dB		-374.19 kl 14.55 M	nit Freq Error Sandwidth		

n77(3700~3980 MHz)_15 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	* +						Ö,	Frequency	· • 5,
	Corr CCorr	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Free Avg(Hold: 5 Radio Std: 1			Center Fi 3.84000	equency 0000 GHz	Settings
Graph		Ref Lvi Offset 27					Span 30.000 M	AHz.	
cale/Div 10.0 dB		Ref Value 40.00	JBM				CF Step 3.00000		
10.0	Januar	nan ann an an Airinn		rey			Auto Man		
10.0 20.0 30:0	non server all a			trans	manal meterses .		Freq Offs 0 Hz	et	
40 0 50 0						or nake for			
Center 3.84000 GHz Res BW 300.00 kHz		#Video BW 1.200	0 MHz	#Sv	Span : weep 50.0 ms (10	30 MHz 01 pts)			
2 Metrics									
Occupied Band	dwidth 12.988 MHz		Total Power		28.9 dBm				
Transmit Freq x dB Bandwidt			% of OBW Pow x dB	ver	99.00 % -26.00 dB				Loca
	Mar 21, 2024 8:47:16 AM	0				81			

n77(3700~3980 MHz)_15 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	+					Ø	Frequenc	y + 3
	Complete 100 Corr Corr Preamp Off Align Auto Freq Ref. Int (S) NFE Adaptive			Trig: Free Run Center Freg. 3.840000000 GHz Gate: Off Avg Hold: 50/50 #IF Gain: Low Radio Std: None			ter Frequency 40000000 GHz	Settings
Graph		Ref LvI Offset 27				Spa 30.	n 000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm				Step 00000 MHz	
10.0			unternetter aldres				Auto Man	
-10.0				Wellington and	PEAK 0 H	i Offset z		
-30-0 -40-0 -50.0					and the second second	- Alanta -		
Center 3,84000 GHz #Res BW 300.00 kHz		#Video BW 1.20	00 MHz	#Sw	Span 30 eep 50.0 ms (100			
2 Metrics T								
Occupied Bandwidth	54 MHz		Total Power		28.4 dBm			
Transmit Freq Error x dB Bandwidth	-371.93 ki 14.53 Mi		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loc
			XUD			521		

n77(3700~3980 MHz)_15 M_OBW_Mid_64QAM_FullRB



	Frequenc						zer 1 +	pectrum Analy occupied BW	
	Center Frequency 3.840000000 GHz	50	Trig: Free Run Center Freq. 3.840000000 GHz Gate: Ott Avg Hold: 50/50 #IF Gain: Low Radio Std: None			Coupling DC Corr Preamp Off C Align: Auto Freq Ref. Int (S) # NFE Adaptive			
	Span 30.000 MHz				Ref Lvi Offset 2		*	Graph	
	CF Step 3.000000 MHz			18m	Ref Value 40.00		dB	cale/Div 10.0	
	Auto Man		1		4.50			20.0	
	Freq Offset 0 Hz		1			usere			
		milestation and fight in the first of the second	Talifrapa				and the second	30-0	
		Span 30 MHz eep 50.0 ms (1001 pts)	! #Swee	0 MHz	#Video BW 1.20			enter 3,8400	
							*	Metrics	
		26.4 dBm		Total Power		142	oied Bandwidth 12.944	Occuj	
Lo		99,00 % -26,00 dB	ver	% of OBW Pov x dB		-377.35 kł 14.43 Mł	mit Freq Error Bandwidth		

n77(3700~3980 MHz)_15 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1	+					0	Frequency	* 57
Coupling DC-	Input Z: 50 Ω Corr CCorr Freq Ret. Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Otf #IF Gain, Low	Center Freq Avg/Hold 50 Radio Std N		and the second se	Frequency 000000 GHz	Settings
Graph	R	ef Lvi Offset 27				Span 40.00	0 MHz	
cale/Div 10.0 dB		ef Value 40.00					ep 000 MHz uto	
10.0	- And - Marine	**************************************	and a share and a share a share a			M	an	
10.0 20.0 30.0				how	When when the server of	EAK 0 Hz	Miset	
-40.0 -50.0								
Center 3,84000 GHz #Res BW 390.00 kHz	#	Video BW 1.600	00 MHz	#Sw	Span 40 1 eep 50.0 ms (1001			
2 Metrics	153 MHz		Total Power		30,3 dBm			
Transmit Freq Error x dB Bandwidth	-189.50 kH 19.59 MH		% of OBW Pov x dB	ver	99,00 % -26.00 dB			Loca
- - -	Mar 21, 2024 8:59:29 AM				: 🔛 🕻	₹		

n77(3700~3980 MHz)_20 M_OBW_Mid_BPSK_FullRB



Spectrum Analy Occupied BW		+					٥	Frequency	· · · ポ
	Input RF Coupling DC Align Auto	Input Z: 50 Ω Corr CCorr Freq Ret Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	Center Freq. 3 8400000 AvgiHold: 50/50 Radio Std: None	00 GHz		requency 10000 GHz	Settings
PASS Graph			Ref Lvi Offset 27				Span 40.000	MHz	
cale/Div 10.0	dB		Ref Value 40.00	dBm			GF Step 4.0000		
20.0		,	mbridge and an	n de grinse frankrigen en opened	-		Aut Ma		
10.0 20.0 30-0	ware Minina	A. C.			Manananan .	PEAK	Freq Off 0 Hz	set	
-10.0 -50.0 Center 3.84000 Res BW 390.0			#Video BW 1.60	DO MHZ	#Sweep 50.0 r	Span 40 MHz			
Metrics	*								
Occup	pied Bandwidth 17.9	73 MHz		Total Power	30.1	dBm			
	mit Freq Error Bandwidth	-199.24 k 19.63 M		% of OBW Pov x dB	ver 99,0 -26,0	00 % 0 dB			Local
		Mar 21, 2024 9:00:01 AM	Ø						

n77(3700~3980 MHz)_20 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	+			Frequency	* 5
	Input 2:50 Ω Atten 2/ Corr CCorr Preamp Freq Ref. Int (S) NFE Adaptive	Off Gate Off Avg/He	Freq: 3.840000000 GHz Id: 50/50 Std: None	Center Frequency 3.840000000 GHz	Settings
Dar PASS	Ref Lvi O	ffset 27.92 dB		Span 40.000 MHz	
Cale/Div 10.0 dB		40.00 dBm		CF Step 4.000000 MHz Auto	
0.00 10.0 20.0 30.0	where the second s		PEAK	Man Freq Offset 0 Hz	
40.0 -50.0 Center 3,84000 GHz	#Video Bi	N 1.6000 MHz	Span 40 MHz		
Res BW 390.00 kHz 2 Metrics			#Sweep 50.0 ms (1001 pts)		
Occupied Bandwidth 17.93	32 MHz	Total Power	28.9 dBm		
Transmit Freq Error x dB Bandwidth	-199.55 kHz 19.57 MHz	% of OBW Power x dB	99.00 % -26.00 dB		Loca
1 50	Mar 21, 2024 9:00:34 AM				

n77(3700~3980 MHz)_20 M_OBW_Mid_16QAM_FullRB



ectrum Analyze cupied BW		+						ø	Frequency	y • 5
A	iput RF Coupling DC: Vign Auto	Input Z 50 Ω Corr CCorr Freq Ret. Int (NFE: Adaptive	Atten 20 dB Preamp Off S)	Trig: Free Run Gate: Ott #IF Gain: Low	Center Fre AvgiHold 5 Radio Std) GHz		Frequency 00000 GHz	Settings
PASS Graph		NFE Adaptive	Ref LvI Offset 27					Span 40.000	MHz.	
ale/Div 10.0 d	3		Ref Value 40.00	dBm				CF Step 4.0000	0 00 MHz	
0.0		Jugun	namitent termene	-martine the second and a second s	mole-			Au Ma		
0.0	لايروسوس				type	- lad prove	PEAR	Freq Of 0 Hz	iset	
) 0) 0							and the second			
nter 3.84000 (es BW 390.00		+	#Video BW 1.600	00 MHz	#S	Sp weep 50.0 ms	pan 40 MHz s (1001 pts)			
Netrics										
Occupie	ed Bandwidth 17.97	76 MHz		Total Power		28.5 dE	3m			
	it Freq Error	-191.20	0 kHz ' MHz	% of OBW Pov x dB	wer	99.00				Loc

n77(3700~3980 MHz)_20 M_OBW_Mid_64QAM_FullRB



- Compiled Diff	+					¢	Frequenc	y • 15
	Input Z: 50 Q Corr CCorr Freq Ret: Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Fre Avg/Hold 5 Radio Std			er Frequency 0000000 GHz	Settings
Graph	F	ef Lvi Offset 27				Span 40.0	00 MHz	
Scale/Div 10.0 dB		ef Value 40.00 (dBm				tep 0000 MHz Auto	
10.0	100000	han an a	vînera-dertayî îrîn-îrinaîne			Freq	Man Offset	
20.0 30 ⁻⁰ μαμετομηλοτικούου 40.0 50.0	Num and a state of the state of			<u></u>	afterlann nyinterdrampinali	EAK MAR		
Center 3,84000 GHz #Res BW 390.00 kHz	#	Video BW 1.600	00 MHz	#Sv	Span 40 weep 50.0 ms (1001			
2 Metrics 🔹 🔹								
Occupied Bandwidth 17.99	97 MHz		Total Power		26.5 dBm			
Transmit Freq Error x dB Bandwidth	-177.16 kH 19.73 MH		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loc
	Mar 21, 2024 9:01:40 AM	Ð		10		A		

n77(3700~3980 MHz)_20 M_OBW_Mid_256QAM_FullRB



I Graph Ref Lvl Offset 27.92 dB Span 50.000 MHz Scale/Div 10.0 dB Ref Value 40.00 dBm CF Step 50.0000 MHz 200 Image: Comparison of the comparison of t		Center Frequency 3.840000000 GHz	000000 GH2	g Free Run Centér Freq 3.840000000 GHz la: Caf AvgiHold 50/50 - Gain Low Radio Std None			Gate: C	Atten 20 dB Preamp Off	ut Z 50 Ω rr CCorr og Ret. Int (S) E. Adaptive	Co Fre	Coupling DG Align Auto	KEYSIGHT
000000000000000000000000000000000000		Span 50.000 MHz										Graph
100 100 100 200 200 200 200 200					1							.og 30.0
PEAK 200 300 300 500 Souther and a state of the stat					*	inner	nage of the	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Marine and	_		10.0
400 50 5 Center 3.84000 GHz #Video BW 2.0000 MHz Span 50 MHz #Res BW 510.00 kHz #Sweep 50.0 ms (1001 pts)		and the second	PEAK		1					w	And the state of t	20.0
#Res BW 510.00 kHz #Sweep 50.0 ms (1001 pts) 2 Metrics •							00 MHz	#Video BW 2.00				-40.0
Occupied Bandwidth			0.0 ms (1001 pts)	weep 50.0 m	#5\				201	1	*	2 Metrics
22.954 MHz Total Power 30.6 dBm			30.6 dBm	30.6 d			0000		z	54 MH	22.9	
Transmit Freq Error -226.51 kHz % of OBW Power 99.00 % x dB Bandwidth 24.73 MHz x dB -26.00 dB	Loc					BW Powe						

n77(3700~3980 MHz)_25 M_OBW_Mid_BPSK_FullRB



KEYSIGHT	Input_RF Coupling_DC Align_Auto	Input Z: 50 Ω Corr CCorr Freq Ret. Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain Low	eq. 3.840000000 GHz 50/50 None	Center Frequency 3.840000000 GHz	Settings	
Graph	dB.		Ref LvI Offset 27 Ref Value 40.00	and the second			Span 50.000 MHz	
-0g 30.0							CF Step 5.000000 MHz	
20.0		purent	6H-1Aunitertyingh	and the second	mm		Auto Man	
on a la serie	verses and and	m/				handermannen	Freq Offset 0 Hz	
40.0 50.0 Center 3.84000 Res BW 510.0			#Video BW 2.000	00 MHz	#5	Span 50 M Sweep 50.0 ms (1001 p		
Metrics	•							
Occup	bied Bandwidth 22.9	986 MHz		Total Power		30.2 dBm		
	mit Freq Error 3andwidth	-195.18 25.08 M		% of OBW Pov x dB	ver	99,00 % -26.00 dB		Loc
		Mar 21, 2024 9:14:05 AM	Ø			# 💘 — ≽	7	

n77(3700~3980 MHz)_25 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	+						Ö.	Frequency	1 + 3
	Input Z 50 Ω Corr CCorr Freq Ret. Int (S) NFE_Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	Centér Freq. 3.840000000 GHz AvgiHold: 50/50 Radio Std: None			Center Frequency 3.840000000 GHz		Settings
I Graph	INFL MUAPHINE	Ref LvI Offset 27 Ref Value 40.00					Span 50.000 MH2		
.0g		Ref Value 40.00					CF Step 5.000000 M	Hz	
20.0		restan de come se concertan en					Auto Man		
10 0 20 0 30 0 	1						req Offset Hz		
50.0 Center 3.84000 GHz /Res BW 510.00 kHz		#Video BW 2.000	00 MHz	#	Span Sweep 50.0 ms (10	50 MHz 001 pts)			
Metrics	1 217 MHz		Total Power		29.3 dBm				
Transmit Freq Error x dB Bandwidth	-185.31 F 25.03 N		% of OBW Pov x dB	wer	99.00 % -26.00 dB				Loc
- - - - - - - - - - - - - -	Mar 21, 2024 9:14:36 AM	0				X			

n77(3700~3980 MHz)_25 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	* +							Frequenc	y 🔹 🕄
Coupling De Align Auto	Input Z: 50 Q Corr CCorr Freq Ret. Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Otf #IF Gain: Low					Center Frequency 3.840000000 GHz	
Graph	нес лиарние	Ref LvI Offset 27					Span 50.000	MHz	
cale/Div 10.0 dB		Ref Value 40.00						00 MHz	
10.0	from	and a stand of the stand of the	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	my			Au Ma		
20 0 20 0 30-0	und				makanon	РЕАК	Freq Of 0 Hz	fset	
40 0									
Center 3.84000 GHz Res BW 510.00 kHz		#Video BW 2.000	00 MHz		#Sweep 50.	Span 50 MHz 0 ms (1001 pts)			
Metrics T Occupied Bandwi 2	dth 2.965 MHz		Total Power		28	.7 dBm			
Transmit Freq Err x dB Bandwidth	or -214.81 24.98 M		% of OBW Pov x dB	wer		9,00 % 5.00 dB			Loc
150	Mar 21, 2024 9:15:08 AM	9							

n77(3700~3980 MHz)_25 M_OBW_Mid_64QAM_FullRB



KEYSIGHT Input RF Company OC Corr Coorr Prag Ref Int (S) NFE Adaptive Input 2: 50 Q Corr Coorr Prag Ref Int (S) NFE Adaptive Atten: 20 dB Prag Pot Trig: Free Run Gale: Off #IF Gain Low Center Freq: 3 84000000 GHz Avg Hold: 50/50 Radio Std: None Center Frequency 3.84000000 GHz 10 Graph Ref LvI Offset 27.92 dB Ref Value 40.00 dBm Ref Value 40.00 dBm Center Freq: 3 84000000 GHz Span 50.0000 MHz 20 100 100 100 100 100 100 100 100 100 1	ency 🔹 🗧
1 Graph Ref Lvi Offset 27.92 dB Span Scale/Div 10.0 dB Ref Value 40.00 dBm GF Step 200 Auto Man 200 PEAK PEAK 200 PEAK PEAK 200 PEAK Hz 200 PEAK PEAK 200 PEAK Hz	Settings
09 00<	
PEAK PEAK PEAK PEAK PEAK PEAK PEAK PEAK	
200 300 400 50 c Span 50 MHz Res BW 510.00 kHz Hz Hz Hz Hz Hz Hz Hz Hz Hz	
Center 3,84000 GHz #Video BW 2.0000 MHz Span 50 MHz Res BW 510.00 kHz #Sweep 50.0 ms (1001 pts)	
Occupied Bandwidth	
22.934 MHz Total Power 26.8 dBm Transmit Freq Error -201.17 kHz % of OBW Power 99.00 % x dB Bandwidth 24.92 MHz x dB -26.00 dB	Loc

n77(3700~3980 MHz)_25 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1	+			Frequency	* 5,
	Input Z: 50 Ω Atten Corr CCorr Pream Freq Ref. Int (S) NFE Adaptive			Center Frequency 3.840000000 GHz	Settings
or PASS	Ref Lvi	Offset 27.92 dB		Span 60.000 MHz	
Scale/Div 10.0 dB	Ref Val	e 40.00 dBm		CF Step 6.000000 MHz Auto Man	
0.00 10.0 20.0 30.0		\	PEAR Millinghonetrochanangurana	Freq Offset 0 Hz	
-50.0 Center 3.84000 GHz #Res BW 620.00 kHz	#Video	3W 2.4000 MHz	Span 60 MHz Sweep 50.0 ms (1001 pts)		
2 Metrics •					
26.938 MHz Transmit Freq Error -570.07 kHz x dB Bandwidth 29.00 MHz		Total Power % of OBW Power x dB	30.8 dBm 99.00 % -26.00 dB		Loca
500	Mar 21, 2024 9:27:36 AM		.:: 🔛 — 🔀		

n77(3700~3980 MHz)_30 M_OBW_Mid_BPSK_FullRB



ccupied BW	+ Input Z: 50 Ω	Atten 20 dB		O-other Proce	3 9 10 9 9 9 9 9	¢		
EYSIGHT Input RF Coupling Drs Align Auto	Corr CCorr Freq Ref. Int (S)	Preamp Off (Inter Frequency 840000000 GHz	Settings
7 PASS Graph 7		ef Lvi Offset 27.92				Sp 60	an).000 MHz	
cale/Div 10.0 dB	R	ef Value 40.00 dBm					Step 000000 MHz	
0.0	plannon	4048-00-00-000-00-00-00-00-00-00-00-00-00-0	and the second				Auto Man	
0.0 0.0 0.0				turon	-deared Sycamore for galangel of age	0.	eq Offset Hz	
0.0								
enter 3.84000 GHz Res BW 620.00 kHz	#	Video BW 2.4000 M	Hz	#Sw	Span 60 veep 50.0 ms (1001			
Metrics r								
Occupied Bandwidth 26.9	975 MHz		Total Power		30.4 dBm			
Transmit Freq Error x dB Bandwidth	-563.05 kH		% of OBW Pow x dB	er.	99.00 % -26.00 dB			Loc

n77(3700~3980 MHz)_30 M_OBW_Mid_QPSK_FullRB



pectrum Analyzer 1 Occupied BW	+							Frequenc	y • 🕄
CEYSIGHT Input RF	Input Z: 50 Q Corr CCorr Freq Ret. Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	Center Freq. 3.840000000 GHz AvgiHold: 50/50 Radio Std. None			Center Frequency 3.840000000 GHz		Settings
Graph T	мне моарлиа	Ref LvI Offset 27	and the second sec				Span 60.000	MHz	
-og 30.0		Ref Value 40.00	abm		· · · · · ·		CF Step 6.0000	o OO MHz	1
20.0	- provinsion	nown	monormon	~~~			Au Ma		
0 0 0 0 0 0				- Uma	WWW WWWWWWWWWWWWWWWWW		Freq Offset 0 Hz		
50.0 Center 3,84000 GHz Res BW 620.00 kHz		#Video BW 2.400	00 MHz	#5	Sp veep 50.0 ms	an 60 MHz (1001 pts)			
2 Metrics •									
Occupied Bandwidt 26	h 921 MHz		Total Power		29.3 dB	m			
Transmit Freq Error x dB Bandwidth	-569.07 29.22 N		% of OBW Pov x dB	wer	99.00 -26.00 d				Loc
	? Mar 21, 2024 9:28:42 AM	-							

n77(3700~3980 MHz)_30 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	+					¢	Frequenc	y + 3,
	Input Z: 50 Ω Corr CCorr Freq Ret: Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq 3 Avg(Hold 50/5 Radio Std No		and an other statements	Frequency 000000 GHz	Settings
Graph		Ref LvI Offset 27				Span 60.000) MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Ste 6.0000	р 000 MHz	
20.0	preservation	manne	nerden given wind the generation	~~		AL M		
10.0 20.0	1				P	Freq O EAK 0 Hz	ffset	
-30-0 -40.0 -50.0	0.0			Varhardenning var and vertrageners				
Center 3.84000 GHz #Res BW 620.00 kHz		#Video BW 2.400	00 MHz	#Swe	Span 60 M ep 50.0 ms (1001			
2 Metrics								
Occupied Bandwidth 26 94	41 MHz		Total Power	_	28.9 dBm			
Transmit Freq Error x dB Bandwidth	-540.26 k 29.03 M		% of OBW Pow x dB	wer	99.00 % -26.00 dB			Loca
1501	Mar 21, 2024 9:29:14 AM	0			N	7		

n77(3700~3980 MHz)_30 M_OBW_Mid_64QAM_FullRB



Coupled BW		+ Input Z:	50.0	ten 20 dB	Trig: Free Run	Contor From	3 840000000 GHz	0		/ * 3
1L ,	Soupling DCS Vign Auto	Corr CC Freq Re	orr Pr Fint (S)	eamp Off	Gate: Off #IF Gain: Low	AvgiHold 50 Radio Std N	(50	and the second sec	Center Frequency 3.840000000 GHz	
Graph	*	NFE Ad	Ref	LvI Offset 27				Span 60.000	MHz	
cale/Div 10.0 d	8		Ref	Value 40.00 (dBm			Concession of the local division of the loca	00 MHz	
10.0			Arian and a start of the start	www.min.	unther an an an article	~		Au Ma		
10.0	- walking and	m					PE	Freq Of 0 Hz	fset	
-30-0 -40.0							art communication of the particular			
Center 3.84000 (Res BW 620.00		1	#Vid	leo BW 2.400	00 MHz	#Sw	Span 60 M eep 50.0 ms (1001 p			
2 Metrics	•									
Occupie	ed Bandwidth	65 MHz			Total Power		27.0 dBm			
	it Freq Error andwidth	-	506.03 kHz 29.18 MHz		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loc
50		Mar 2 9:29:	1, 2024 46 AM							

n77(3700~3980 MHz)_30 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1	+						ø	Frequency	* *
	Input Z: 50 Q Corr CCorr Freq Ret. Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Fre Avg/Hold 5 Radio Std		0 GHz	Concession of the local division of the loca	Center Frequency 3.840000000 GHz	
Rraph	R	ef LvI Offset 27					Span 80.000	MHz	
cale/Div 10.0 dB	RI municipantes and the	ef Value 40.00					Au	00 MHz Io	
000 0.00 10.0 20.0 30:0 70:0	1			L	A second	PEAR	Ma Freq Off 0 Hz		
40.0 50.7 enter 3.84000 GHz Res BW 820.00 kHz	#\	/ideo BW 3.000	00 MHz		S	pan 80 MHz			
Metrics				#51	weep 50.0 m	s (1001 pts)			
Occupied Bandwidth 35.83	33 MHz		Total Power		30.9 d	Bm			
Transmit Freq Error x dB Bandwidth	-1.0664 MH 38.49 MH		% of OBW Pov x dB	wer	99.00 -26.00				Loca
500	Mar 21, 2024 9:40:59 AM								

n77(3700~3980 MHz)_40 M_OBW_Mid_BPSK_FullRB



EYSIGHT Input RF	Input Z: 50 Q						¢		y Y S
L Coupling DC Align Auto	Freq Ref- Int (S)	Atten 20 dB Preamp Off	Trig Free Run Gate: Otf #IF Gain: Low	Center Free Avg/Hold 5 Radio Std 1		3Hz	Center Frequency 3.840000000 GHz		Settings
Graph		Ref Lvi Offset 27					Span 80.000	MHz	
cale/Div 10.0 dB		Ref Value 40.00	dBm				CF Step 8.00000		1
20.0 10.0	farmona.	and the second second	A Simole and a france (Branch have	7			Aut Mar		
20.0 20.0 30-0	w			Linnerse	manahan	PEAK	Freq Off 0 Hz	set	
40.0 50.0									
enter 3.84000 GHz Res BW 820.00 kHz		#Video BW 3.000	00 MHz	#Sv	Spa veep 50.0 ms	an 80 MHz (1001 pts)			
Metrics T									
Occupied Bandwidth 35.8	86 MHz		Total Power		30.8 dBn	n			
Transmit Freq Error x dB Bandwidth	-1.0905 M 38.34 M		% of OBW Pow x dB	ver	99.00 % -26.00 di				Loc

n77(3700~3980 MHz)_40 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	* +					4	Frequenc	y + 5,
EYSIGHT Input RF	Input Z: 50 Q Corr CCorr Freq Ret. Int (NFE: Adaptive		Trig Free Run Gate: Ott #IF Gain Low	Center Freq Avg/Hold 50 Radio Std No			enter Frequency 840000000 GHz	Settings
Graph T	пне мааріт	Ref LvI Offset 27	and the second sec			100.0	an 0.000 MHz	
Log 30.0		Ref Value 40.00	abm				Step 000000 MHz	
20.0	an a		net-turnet-training	~~~			Auto Man	
100 200 300 marcal and the own	g-names and			Lineverting	With Maryhadinia h. mg.		eq Offset Hz	
40.0								
Center 3.84000 GHz Res BW 820.00 kHz		#Video BW 3.000	00 MHz	#Swe	Span 8 ep 50.0 ms (100			
2 Metrics 🔹 🔹								
Occupied Bandw	ldth 35.896 MHz		Total Power	_	29.6 dBm			
Transmit Freq Er x dB Bandwidth) MHz MHz	% of OBW Pov x dB	wer	99.00 % -26.00 dB			Loca
	Mar 21 202					2		
(a) (a	9:42:04 AN	* <u>©</u>						

n77(3700~3980 MHz)_40 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	+					Ø	Frequency	* 3
	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Otf	Trig: Free Run Gate: Ott #IF Gain: Low	Center Freg. 3.84 AvgiHold: 50/50 Radio Std: None	0000000 GHz	and the second s	Center Frequency 3.840000000 GHz	
Graph		Ref LvI Offset 27				Span 80.000	MHz	
cale/Div 10.0 dB		Ref Value 40.00				CF Step 8.00000 Aut	DO MHZ	
0.0 00 00 00 00					PEAK	Mai Freq Off 0 Hz		
0.0					*****			
enter 3.84000 GHz Res BW 820.00 kHz		Video BW 3.000	00 MHz	#Sweep	Span 80 MHz 50.0 ms (1001 pts)			
Metrics Occupied Bandwidth 35.87	79 MHz		Total Power		29.1 dBm			
Transmit Freq Error x dB Bandwidth	-1.1091 M 38.27 M		% of OBW Pov x dB		99.00 % -26.00 dB			Loca
500	Mar 21, 2024 9:42:39 AM	Đ						

n77(3700~3980 MHz)_40 M_OBW_Mid_64QAM_FullRB



ccupied BW	1					¢	Frequenc	y • 🗧
Alig	uLRF plina DC π Auto	Input Z 50 Ω Corr CCorr Freq Ret. Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	Center Freq. 3 840000000 GHz Avg Hold: 50/50 Radio Std: None		er Frequency 0000000 GHz	Settings
Graph	*	NFE Adaptive	Ref LvI Offset 27			Span 80.0	00 MHz	
cale/Div 10.0 dB			Ref Value 40.00	dBm		CF St 8.00	tep 0000 MHz	1
20.0		Junioran	and the second sec	uenion n.			Auto Man	
10.0	an a free for the last of the last of the					DEAK 0 Hz	Offset	
30-0 40.0 50.0					buet they with hime and water	~~~~\$A		
enter 3.84000 GH Res BW 820.00 kl			#Video BW 3.000	00 MHz	 			
Metrics								
Occupied	Bandwidth							
	35.906	MHz		Total Power	27.1 dBm			
Transmit P x dB Band		-1.1193 N 38.30 N		% of OBW Pov x dB	ver 99.00 % -26.00 dB			Loc
_		Mar 21, 2024 9:43:12 AM	0			N		

n77(3700~3980 MHz)_40 M_OBW_Mid_256QAM_FullRB



	iput RF oupling DIC lign Auto	Input Z: 50 Ω Corr CCorr Freq Ret. Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	Center Freq. 3 AvgiHold: 50/50 Radio Std: Non			Frequency Center Frequency 3.840000000 GHz	
Graph			Ref LvI Offset 27				Span 100.00) MHz	
icale/Div 10.0 d	8	from and the second	Ref Value 40.00	dBm			CF Ste 10.000 Au	1000 MHz Ito	
40.0	Raylynthasterated				harmonthe	PE/	Freq O 0 Hz		
50.0 Center 3.84000 C Res BW 1.0000			#Video BW 4.000	00 MHz	#Swee	Span 100 M p 50.0 ms (1001 pi			
Metrics Occupie	t d Bandwidth 45.820) MHz		Total Power	_	31.2 dBm			
Transmi x dB Ba	t Freq Error	-953.14 48.55 M		% of OBW Pov x dB	wer	99.00 % -26.00 dB			Loc
		Mar 21, 2024 9:54:16 AM				N - X	7		

n77(3700~3980 MHz)_50 M_OBW_Mid_BPSK_FullRB



	Input RF Coupling DC Align Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Free Avg/Hold 5 Radio Std		z		Frequency 00000 GHz	Settings
Graph	*	THE Hupping	Ref LvI Offset 27					Span 100.00	MHz.	
icale/Div 10.0	dB		Ref Value 40.00	dBm	~~~			CF Step 10.000 Aut Ma	000 MHz to	
40.0	Nortuwa wakibi wand	4-B/			- want	Munimatorytosate	PEAK	Freq Oil 0 Hz		
50.0 Center 3,84000 Res BW 1.000			#Video BW 4.000	00 MHz	#Sv	Span 1 veep 50.0 ms (10	00 MHz 001 pts)			
Metrics Occup	pied Bandwidth 45.8	79 MHz		Total Power		30.8 dBm				
	mit Freq Error 3andwidth	-947.33 48.68 M		% of OBW Pov x dB	ver	99,00 % -26.00 dB				Loc
		Mar 21, 2024 9:54:41 AM	Ø				XX			

n77(3700~3980 MHz)_50 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	+					Q	Frequency	1 1 37
	Input Z 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Otf #IF Gain: Low	Center Fre AvgiHold 3 Radio Std		and the second se	Center Frequency 3.840000000 GHz	
Graph		Ref LvI Offset 27				Span 100.00	MHz	
cale/Div 10.0 dB		Ref Value 40.00				CF Ster 10.000	000 MHz	
10.0	M					Ma Freq Of	n	
20.0 30-0 marine here Albhard Frit 40.0 50.0	vad			MARTEN	PE Worker And Constanting and a second	AK 0 Hz		
Center 3.84000 GHz #Res BW 1.0000 MHz		#Video BW 4.000	00 MHz	#5	Span 100 M weep 50.0 ms (1001 p			
2 Metrics								
Occupied Bandwidth 45.84	5 MHz		Total Power		29.9 dBm			
Transmit Freq Error x dB Bandwidth	-918.11 ki 48.73 M		% of OBW Pov x dB	wer	99.00 % -26.00 dB			Loca
500	Mar 21, 2024 9:55:03 AM				# 🔡 🕻			

n77(3700~3980 MHz)_50 M_OBW_Mid_16QAM_FullRB



	÷		-				Ö	Frequenc	y Y
EYSIGHT Input RF Coupling DC Align Auto	Input Z: 50 Ω Corr CCorr Freq Ret: Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Otf #IF Gain: Low	Center Freq AvgiHold 5 Radio Std M		lz.	Center Frequency 3.840000000 GHz		Settings
Graph	F	Ref LvI Offset 27	and the second sec				Span 100.00	MHz	
cale/Div 10.0 dB		Ref Value 40.00	dBm				CF Step 10.000 Aut	000 MHz	1
0.00	\int	An					Ma Freq Off	n	
0.0 00-0 00-0	ww.			And and	Www.waterson.org	PEAR	0 Hz		
50.0 enter 3.84000 GHz Res BW 1.0000 MHz		Video BW 4.000	00 MHz	#Sw	Span * eep 50.0 ms (1	00 MHz			
Metrics T									
Occupied Bandwidth 45.87	4 MHz		Total Power		29.5 dBm				
Transmit Freq Error x dB Bandwidth	-924.91 kH 48.67 MH		% of OBW Pow x dB	ver	99.00 % -26.00 dB				Los
	Mar 21, 2024 9:55:26 AM					M			

n77(3700~3980 MHz)_50 M_OBW_Mid_64QAM_FullRB



Spectrum Analyze Occupied BW	rt v	+					¢	Frequenc	1 + 50
	put_RF oupling DG ign_Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (NFE: Adaptive		Trig: Free Run Gate: Otf #IF Gain: Low	Center Freq. 2 Avg(Hold: 50/5 Radio Std: No		and the second sec	Frequency 00000 GHz	Settings
Graph		NE Adapive	Ref LvI Offset 27				Span 100.00	MHz	
cale/Div 10.0 dl		manter	Ref Value 40.00	dBm			Au	000 MHz to	
00	angla alkaladhadha					PEA	Ma Freq Of 0 Hz		
enter 3,84000 G			#Video BW 4.000	00 MHz		Span 100 MH			
Res BW 1.0000 Metrics	MHz T				#Swe	ep 50.0 ms (1001 pts	<u>)</u>		
Occupie	d Bandwidth 45.86	3 MHz		Total Power		27.3 dBm			
Transmi x dB Bar	t Freq Error ndwidth	-929.42 48.81		% of OBW Po x dB	wer	99.00 % -26.00 dB			Loca
50		Mar 21, 202 9:55:50 AM	4						

n77(3700~3980 MHz)_50 M_OBW_Mid_256QAM_FullRB



CL Augn Auto Freq Ref Int (S) #IF Gain Low Radio Std None 3.840000000 GHz V PASS NFE Adaptive Spain 120.00 MHz 1 Graph Ref Value 40.00 dBm CF Step 120.00 MHz 200 Auto Man Freq Offset 0 201 Auto Man Man Freq Offset 0 200 Auto Man Man Freq Offset 0 200 Auto Man Man Freq Offset 0 200 Auto Man Man Freq Offset 0 Hz 200 Auto Man Man Freq Offset 0 Hz Man 200 Auto Man Man Freq Offset 0 Hz Man 200 Auto Man Man Man Freq Offset 0 Hz 200 Auto Man Man Man Man Freq Offset 0 Hz 200 Man Man Man Man Man Man Hz <t< th=""><th>• 5</th></t<>	• 5
Graph Gr	Settings
Og CF Step 000 CF Step 010 CF Step 020	
100 100 100 100 100 100 100 100	
PEAK PEAK	
400 50 0 Filler	
Res BW 1.2000 MHz #Sweep 50.0 ms (1001 pts)	
2 Metrics T	
Occupied Bandwidth 58.037 MHz Total Power 31.3 dBm	
Transmit Freq Error -6.218 kHz % of OBW Power 99.00 % x dB Bandwidth 61.08 MHz x dB -26.00 dB	Loc

n77(3700~3980 MHz)_60 M_OBW_Mid_BPSK_FullRB



	iput_RF oupling_DIS lign_Auto	Input Z 50 Q Corr CCorr Freq Ret Int (NFE Adaptive		Trig: Free Run Gate: Otf #IF Gain: Low	AvgiHo	Freq 3.84000 kd 50/50 Std None	0000 GHz	Center Frequency 3.840000000 GHz	Settings
Graph ale/Div 10.0 dl	*		Ref LvI Offset 27 Ref Value 40.00	and the party of the second				Span 120.00 MHz	
			Rei Value 40.00					CF Step 12.000000 MHz Auto	
00		Jun		aaantiin ahaan taraa ka ahaa ka	1			Man	
0.0 0.0 0.0	war with a					however	PEAR	Freq Offset 0 Hz	
0.0 0.0 enter 3,84000 G	SHz		#Video BW 5.000	DO MHZ			Span 120 MHz		
tes BW 1.2000 Metrics	MHz					#Sweep 50.0	0 ms (1001 pts)		
Occupie	d Bandwidth 58.02	24 MHz		Total Power		30.	9 dBm		
Transmi x dB Ba	t Freq Error ndwidth	-67.74 61.40		% of OBW Pov x dB	ver		9.00 % .00 dB		Loc

n77(3700~3980 MHz)_60 M_OBW_Mid_QPSK_FullRB



Spectrum Ana Occupied BW	yzer 1	+							0	Frequenc	y + 3
	input_RF Coupling Dis Align Auto	Input Z: 50 Ω Corr CCorr Freq Ret: Int (S) NFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Otf #IF Gain: Low	Cente AvgiH Radio	old 50		00 GHz		Frequency 00000 GHz	Settings
PASS I Graph	*	NPE Adaptive	Ref LvI Offset 27						Span 120.00	MHz	
cale/Div 10.0	0 dB		Ref Value 40.00	dBm				1	CF Step 12.000) 000 MHz	
20.0		American	and the second	-martinaria	min				Au Ma		
10.0	-	~/				Howard	Hunn	PEAK	Freq Of 0 Hz	fset	
40.0 -50.0 Center 3.8400			#Video BW 5.00	00 MHz				pan 120 MHz			
Res BW 1.20 2 Metrics	000 MHz					#5w	eep 50.0 m	ns (1001 pts)			
Occu	ipied Bandwidth 58.04	7 MHz		Total Power			29.8 c	iBm			
	smit Freq Error Bandwidth	-10.637 61.16 M		% of OBW Pov x dB	ver		99.0 -26.00				Loc
15	2	Mar 21, 2024 10:07:47 AM									

n77(3700~3980 MHz)_60 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	+						Ċ,	Frequenc	y + 3,
	Input Z: 50 Q Corr CCorr Freq Ret. Int (S) NFE Adaptive	Atten 20 dB Preamp Otf	Trig: Free Run Gate: Otf #IF Gain: Low	Center Fr Avg Hold Radio Std		00 GHz		Frequency 00000 GHz	Settings
or PASS	1	Ref LvI Offset 27					Span 120.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm				CF Step 12.000	0 000 MHz	
20.0	Journation	and and a second	WP3	minor			Au Ma		
10.0	, I				- المحاديد والمحاد	PEAK	Freq Of 0 Hz	lset	1
-30-0									
Center 3.84000 GHz #Res BW 1.2000 MHz		#Video BW 5.000	00 MHz	#		span 120 MHz ms (1001 pts)			
2 Metrics									
Occupied Bandwidth 57.96	60 MHz		Total Power		29.4	dBm			
Transmit Freq Error x dB Bandwidth	-75.376 ki 61.22 Mi		% of OBW Pov x dB	wer	99.0 -26.0	00 % 0 dB			Loca
15011	Mar 21, 2024 10:08:10 AM	Ø							

n77(3700~3980 MHz)_60 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1	+						Ö	Frequency	* 5
	Input Z 50 Q Corr CCorr Freq Ret Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	AvgiHol	Freq: 3.84000 d: 50/50 itd: None	0000 GHz	Contractory of Contra	Frequency 00000 GHz	Settings
Graph		Ref Lvi Offset 27					Span 120.00	MHz	
cale/Div 10.0 dB		Ref Value 40.00					CF Step 12.000 Aut	DOO MHz	
0.00			a de la francés de la presenta de			PEAK	Ma Freq Off 0 Hz		
30-0 									
Center 3.84000 GHz Res BW 1.2000 MHz		#Video BW 5.000	00 MHz			Span 120 MHz ms (1001 pts)			
2 Metrics Occupied Bandwidti 58.0	n 035 MHz		Total Power		27.3	3 dBm			
Transmit Freq Error x dB Bandwidth	513 61.28 M		% of OBW Pov x dB	ver		00 % 00 dB			Loc
50	Mar 21, 2024 10:08:34 AM	<u></u>							

n77(3700~3980 MHz)_60 M_OBW_Mid_256QAM_FullRB



	Ref. Int (S) Adaplive Ref Lvi Offset 27 Ref Value 40.00	and the second	Radio Sid: None	3.840000000 GHz Span 140.00 MHz	
-0g 30.0	Ref Value 40.00	dBm		and the second s	
				CF Step 14.000000 MHz	
10.0	and the second s	mentation		Auto Man	
20.0 20.0 30.0 Jackon stationers and second second			Lingender a river and	PEAK 0 Hz	
40.0					
Center 3,84000 GHz Res BW 1.5000 MHz	#Video BW 6.000	00 MHz	Span 14 #Sweep 50.0 ms (100		
2 Metrics					
Occupied Bandwidth 64.711 MHz		Total Power	31.5 dBm		
Transmit Freq Error x dB Bandwidth	-1.6412 MHz 68.00 MHz	% of OBW Pow x dB	er 99.00 % -26.00 dB		Loc
	r 21, 2024				

n77(3700~3980 MHz)_70 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1	+						ø	Frequency	y * 影
	Input Z: 50 Q Corr CCorr Freq Ret Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	Center Fre Avg/Hold 5 Radio Std		00 GHz		Frequency 00000 GHz	Settings
Graph		Ref LvI Offset 27	and the second sec				Span 140.00	MHz	
cale/Div 10.0 dB .0g 30 0 20.0		Ref Value 40.00	dBm					DOO MHZ	
10.0	- Annone	- All and a second s		and the second			Au Ma		
20.0 20.0 30-7 umallymenes/sa-replanes/ref 40.0 50.0	and the second			mutant	W. malandaya	PEAK Alanakan Ilaan	Freq Of 0 Hz	fset	
enter 3,84000 GHz Res BW 1.5000 MHz		#Video BW 6.000	DO MHz	#S		pan 140 MHz as (1001 pts)			
Metrics T									
Occupied Bandwidth 64.0	n 565 MHz		Total Power		31.2 d	Bm			
Transmit Freq Error x dB Bandwidth	-1.5985 M 68.29 M		% of OBW Pov x dB	ver	99.00 -26.00				Loca
	Mar 21, 2024 10:20:08 AM	Ø							

n77(3700~3980 MHz)_70 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	+					0	Frequency	• * 影
CEYSIGHT Input RF Coupling Dr. Align Auto	Input Z 50 Ω Corr CCorr Freq Ref. Int (S) NFE_Adaptive	Atten 20 dB Preamp Ott	Trig: Free Run Gate: Otf #IF Gain: Low	Center Free Avg/Hold 5 Radio Std		and the second s	Frequency 00000 GHz	Settings
Graph	1	Ref Lvi Offset 27				Span 140.00	MHz	
cale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 14.000 Au Ma	000 MHz to	
000 0.0 0.0 0.0 0.0 0.0 0 0.0	at			Artstyle	PEA	Freq Of		
40.0 50.0 Renter 3.84000 GHz Res BW 1.5000 MHz		#Video BW 6.000	D0 MHz	#Sv	Span 140 MH veep 50.0 ms (1001 pts			
Metrics Occupied Bandwidth								
64.490 Transmit Freq Error x dB Bandwidth	-1,6255 Mi 68.23 Mi		Total Power % of OBW Pov x dB	wer	30.2 dBm 99.00 % -26.00 dB			Loca
501?	Mar 21, 2024 10:20:31 AM	Ø			: 🔛 — 🗙			

n77(3700~3980 MHz)_70 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	+						Ö	Frequency	1 1 3
		Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Fre AvgiHold 5 Radio Std		GHz	Concession of the local division of the loca	Frequency 00000 GHz	Settings
or PASS	Re	f Lvi Offset 27					Span 140.00	MHz	
Scale/Div 10.0 dB	Re	f Value 40.00	dBm				CF Step 14.000) 000 MHz	
20.0	propriese		inerto a construction of the second	-			Aut Ma		
10.0 20.0 30.0 and and give marked				ewiths	وروالي مركز المستريك	PEAR	Freq Off 0 Hz	íset	
40.0 -50.0 Center 3,84000 GHz #Res BW 1,5000 MHz	#V	ideo BW 6.000	00 MHz	#9	Spa weep 50.0 ms	an 140 MHz			
2 Metrics T									
Occupied Bandwidth 64.45	98 MHz		Total Power		29.6 dB	m			
Transmit Freq Error x dB Bandwidth	-1.6636 MHz 68.18 MHz		% of OBW Pow x dB	er	99.00 -26.00 d				Loca
1501	Mar 21, 2024 10:20:54 AM	Ð				- 1			

n77(3700~3980 MHz)_70 M_OBW_Mid_64QAM_FullRB



Spectrum Analy Occupied BW	zer 1	+						¢	Frequenc	1 1 20
	Input RF Coupling DC Align Auto	Input Z 50 Ω Corr CCorr Freq Ref. Int (NFE Adaptive		Trig: Free Run Gate: Off #IF Gain: Low	Center Free Avg Hold 5 Radio Std		Hz	Contract of the local division of the local	Frequency 00000 GHz	Settings
Graph	*	пес моарние	Ref LvI Offset 27					Span 140.00	MHz	
cale/Div 10.0		Anter	Ref Value 40.00					Aut	000 MHz Io	
0.00 10.0 20.0 30-0	البنيا، محمد بالمساول الم				lam	Served and the second	PEAK	Ma Freq Off 0 Hz		
40.0 50.0 Center 3.84000) GHz		#Video BW 6.000	00 MHz			140 MHz			
Res BW 1.500 Metrics	JU MHZ				#5	weep 50.0 ms (1	001 pts)			
Occup	bied Bandwidth 64.4	75 MHz		Total Power		27.6 dBm				
	mit Freq Error 3andwidth	-1.6456 68.28		% of OBW Pov x dB	wer	99,00 % -26.00 dB				Loca
5		Mar 21, 202 10:21:19 AN					X			

n77(3700~3980 MHz)_70 M_OBW_Mid_256QAM_FullRB



Spectrum Anal Occupied BW		+								ø	Frequenc	Y * 3
	Input_RF Coupling_DC: Align_Auto	C F	put Z: 50 Ω orr CCorr req Ref. Int (S)	Atten 20 dB Preamp Off	Trig: Free Run Gale: Off #IF Gain: Low	Avgit	ar Freq Hold: 50 Std: N		00 GHz	Contractor of the local division of the loca	Frequency 00000 GHz	Settings
Graph	*	N		Ref LvI Offset 27						Span 160.00	MHz	
cale/Div 10.0) dB			Ref Value 40.00	dBm					Au	000 MHz to	
0.00 10.0 20.0 30:0	ىر	l					lan	-	PEAK	Ma Freq Of 0 Hz		
40.0 50.0 Center 3,8400	0 GHz			#Video BW 6.00	00 MHz				pan 160 MHz			
Res BW 1.60 Metrics	T T						#5W	eep 50.0 n	ns (1001 pts)			
Occu	pied Bandwidti 77.	h 290 Mi	Hz		Total Power			31.7 0	tBm			
	smit Freq Error Bandwidth		-191.57 k 81.25 M		% of OBW Pov x dB	wer		99.0 -26.00				Loc
10	all	2	Mar 21, 2024 10:32:43 AM	0								

n77(3700~3980 MHz)_80 M_OBW_Mid_BPSK_FullRB



NL -	nput RF Toupling DC: Vign Auto	Corr (Freq	Z 50 Ω CCorr Ref. Int (S) Adaptive	Atten 20 dB Preamp Otl	Trig Free Run Gate Off #IF Gain Low	Avg	tér Freq Hold: 50 Io Std: N		00 GHz		Frequency 600000 GHz	Settings
Graph Graph Scale/Div 10.0 d		here		Ref LvI Offset 27 Ref Value 40.00	a se					Span 160.00	MHz	
.0g 30.0 20.0 10.0		-	~~~~			1924-1-a				CF Step 16.000 Au Ma	000 MHz to	
0.00 10.0 20.0 30.0 -tuAset and 40.0	utewait/Mythells	Allow I					Jucoppi	J.M.Marmo	PEAK	Freq Of 0 Hz	fset	
Center 3,84000 (Res BW 1.6000				≠Video BW 6.000	00 MHz		#Sw		pan 160 MHz ns (1001 pts)			
Metrics Occupie	ed Bandwidti 77.	h 300 MHz			Total Power		_	31.3 c	18m			
	it Freq Error andwidth		-224.50 ki 81.34 Mi		% of OBW Por x dB	wer		99.0 -26.00				Loca
50	9	? Mar	21, 2024 33:06 AM	Ð					- X			

n77(3700~3980 MHz)_80 M_OBW_Mid_QPSK_FullRB



pectrum A Occupied B	BW 1	+								Ø	Frequenc	y • 5
L H	HT Input_RF Coupling DIG Align Auto	C F	iput Z: 50 Ω orr CCorr req Ret. Int (S) IFE: Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Avgi	er Freq Hold 50 5 Std N		-tz		Frequency 00000 GHz	Settings
Graph		N		Ref Lvi Offset 27						Span 160.00	MHz	
cale/Div	10.0 dB			Ref Value 40.00	dBm				-	CF Step 16.000	0 000 MHz	
20.0			Montriburneture	ar an	an a					Au Ma		
	dan man more and the set	mont					ling	Hallmann	PEAK	Freq Of 0 Hz	fset	
40.0												
Center 3.8 #Res BW 1	4000 GHz .6000 MHz			#Video BW 6.00	00 MHz		#Sw	Span eep 50.0 ms (1	160 MHz 001 pts)			
2 Metrics	ccupied Bandwidt	h										
		382 MI	Hz		Total Power			30.4 dBm				
	ransmit Freq Error dB Bandwidth		-235.07 k 81.34 M		% of OBW Pov x dB	wer		99.00 % -26.00 dB				Loc
-		?	Mar 21, 2024 10:33:29 AM	Ø					X			

n77(3700~3980 MHz)_80 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					Ö	Frequenc	y y 3,
EYSIGHT Input RF Coupling Drs Align Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE. Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Fr Avg/Hold Radio Std			r Frequency 0000000 GHz	Settings
Graph	R	ef Lvi Offset 27				Span 160.0	0 MHz	
Cale/Div 10.0 dB		ef Value 40.00	dBm				0000 MHz	
10.0	1 marine marine	letter to the second	antiger and particular and a second				uto Ian	
10.0 20.0 30.0 mm.com.com.com.com.com.com.com.com.com.c	www			- fr	With sprather water water	EAIC 0 Hz	Offset	
-30 0 -40 0 -50 0								
Center 3.84000 GHz #Res BW 1.6000 MHz	#	Video BW 6.000	00 MHz		Span 160 / weep 50.0 ms (1001			
2 Metrics								
Occupied Bandwidt	h 217 MHz		Total Power		29.8 dBm			
Transmit Freq Error x dB Bandwidth	-252.78 kH 81.46 MH		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loc
		Ð	XOB			<		Loca

n77(3700~3980 MHz)_80 M_OBW_Mid_64QAM_FullRB



Align Autor Freq Ref: Int (S) #IF Gain Low Radio Std None 9.840000000 GHz V PASS NFE Adaptive Span 160.00 MHz Span Scale/Div 10.0 dB Ref Lvi Offset 27.92 dB Gain Low Span 160.00 MHz Scale/Div 10.0 dB Ref Value 40.00 dBm Gain Low Ref Value 40.00 dBm Gain Low Span Scale/Div 10.0 dB Ref Value 40.00 dBm Gain Low Ref Value 40.00 dBm Gain Low Span Scale/Div 10.0 dB Ref Value 40.00 dBm Ref Value 40.00 dBm Gain Low Freq Offset Gain Low Statut Ref Value 40.00 dBm Ref Value 40.00 dBm Gain Low Freq Offset Gain Low Statut Hight Gain Aver Hight Gain Aver Span 160 MHz Auto Statut Hight Gain Aver Hight Gain Aver Span 160 MHz Hight Gain Aver Statut Hight Gain Aver Hight Gain Aver Span 160 MHz Hight Gain Aver Res BW 1.6000 MHz Hight Gain Aver Hight Gain Aver Hight Gain Aver Hight Gain Aver Occupied Bandwidth Transmit Freq Error -233.10 kHz Hight Gain Aver Hight Gain	Spectrum Analyzer 1 Occupied BW	+						Q	Frequency	1 1 5
Graph Ref Lvi Offset 27.92 dB Bandwidth Graph Ref Value 40.00 dBm Bandwidth CF Step 16.0000 MHz Auto Man PEAR Metrics Occupied Bandwidth Transmit Freq Error -223.10 kHz % of OBW Power 99.00 % x dB Bandwidth 81.47 MHz Y dB Bandwidth	L Coupling Do Align Auto	Corr CCorr Freq Ret. Int (S)		Gale: Off	AvgiHe	old 50/50	300000 GHz	Concession of the local division of the loca	and the second se	Settings
Og OG <td< td=""><td>Graph T</td><td>ŗ</td><td></td><td></td><td></td><td></td><td></td><td>The second second</td><td>MHz</td><td></td></td<>	Graph T	ŗ						The second second	MHz	
Auto Main Peak	0 g		Ref Value 40.00	dBm				and the second second		
Percent of the first of the fir	0.0	morianne	antime and the	and the state of the	any					
Model Span 160 MHz Enter 3.84000 GHz #Video BW 6.0000 MHz Span 160 MHz #Sweep 50.0 ms (1001 pts) Metrics Image: Complex and the state of	0.0	ampula				human	PEAK	and the second second	lset	
Occupied Bandwidth 77.318 MHz Total Power 27.9 dBm Transmit Freq Error -233.10 kHz % of OBW Power 99.00 % x dB Bandwidth 81.47 MHz x dB -26.00 dB	40.0	<u>سر مر انتار ا</u>								
Occupied Bandwidth Total Power 27.9 dBm Transmit Freq Error -233.10 kHz % of OBW Power 99.00 % x dB Bandwidth 81.47 MHz x dB -26.00 dB			Video BW 6.00	00 MHz		#Sweep 50				
77.318 MHz Total Power 27.9 dBm Transmit Freq Error -233.10 kHz % of OBW Power 99.00 % x dB Bandwidth 81.47 MHz x dB -26.00 dB	Metrics T									
Transmit Freq Error -233.10 kHz % of OBW Power 99.00 % x dB Bandwidth 81.47 MHz x dB -26.00 dB				Total Power		2	7.9 dBm			
	Transmit Freq Err	or -233.10 kH		% of OBW Pov	ver		99.00 %			Loc
■ っ c ■ ? Mar 21, 2024 💬 📫 🐘 🔣		Mar 21, 2024 10:34:17 AM				•• 5				

n77(3700~3980 MHz)_80 M_OBW_Mid_256QAM_FullRB



	Input RF Coupling DC Align Auto	Input Z 50 Ω Corr CCorr Freq Ret. Int (S)	Atten 20 dB Preamp Off	Trig Free Run Gate: Off #IF Gain Low	Avgil	er Freq. 3.8400 Hold: 50/50 5 Std: None	00000 GHz	Center Frequency 3.84000000 GHz	Settings
Graph	*		Ref LvI Offset 27	and the particular of the second s				Span 180.00 MHz	
cale/Div 10.0			Ref Value 40.00	abm	- inner			CF Step 18.000000 MHz Auto	
0.00	and and all and and	hand a second				her and a come	PEAK	Man Freq Offset 0 Hz	
40.0 50.0			Video BW 8.000	0 MHz			Span 180 MHz		
Res BW 1.800	JU MH2					#Sweep 50	.0 ms (1001 pts)		
Occup	oled Bandwidth 86.9) 923 MHz		Total Power		31	.8 dBm		
	mit Freq Error 3andwidth	-418.80 k 91.33 M		% of OBW Pow x dB	wer		99.00 % 6.00 dB		Loca
10		Mar 21, 2024 10:45:24 AM	$\overline{\Theta}$						

n77(3700~3980 MHz)_90 M_OBW_Mid_BPSK_FullRB



	put RF supling Di5 ign Auto	Cor Fre	ut Z 50 Ω mCCom iq Ref. Int (S) E. Adaptive	Atten 20 dB Preamp Off	Trig Free Run Gate: Off #IF Gain Low	Avg	ter Freq Hold 50 Io Std N		00 GHz		Frequency 100000 GHz	Settings
Graph				Ref LvI Offset 27						Span 180.00	MHz	
cale/Div 10.0 dE		ļ		Ref Value 40.00	0BM					CF Step 18.0000 Aut Mai	000 MHz	
00 0.0 0.0 0.0 0.0	une here all	aren (mithi	Winner	PEAK	Freq Off 0 Hz		
nter 3,84000 G es BW 1.8000				Video BW 8.000	0 MHz		#Sw		pan 180 MHz is (1001 pts)			
Metrics Occupied	t d Bandwidti 86.1	h 965 MHz	z		Total Power			31.4 d	iBm			
Transmit x dB Bar	Freq Error	4	-416.98 kl 91.46 M		% of OBW Por x dB	wer		99,0 -26.00				Lo

n77(3700~3980 MHz)_90 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+								Ö	Frequency	y + <u>3</u>
Align /	Auto P	nput Z: 50 Ω Corr CCorr Freq Ret. Int (S) NFE. Adaptive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Otf #IF Gain: Low	Avgil	er Freq Iold 50/ Std No		GHz		Frequency 00000 GHz	Settings
Graph	*		Ref LvI Offset 27						Span 180.00	MHz.	
cale/Div 10.0 dB			Ref Value 40.00	dBm					CF Step 18.000 Aut	DOO MHZ	
10.0		A second s		\$L\$\$78	Maral Horan				Ma Freq Off	n	
20.0 30.0 40.0	-NON ALMONT RAVE					milita)	Mphinalana	PEAK	0 Hz		
-50.0 Center 3.84000 GHz #Res BW 1.8000 MHz	4		Video BW 8.000	0 MHz		#Swe	Spa ep 50.0 ms	n 180 MHz (1001 pts)			
2 Metrics	*										
Occupied Ba	indwidth 87.155 M	IHz		Total Power			30.3 dB	m			
Transmit Fre x dB Bandwi		-406.61 ki 91.51 Mi		% of OBW Pov x dB	ver		99.00 -26.00 d				Loc
100	- 2	Mar 21, 2024 10:46:11 AM	Ø								

n77(3700~3980 MHz)_90 M_OBW_Mid_16QAM_FullRB



Spectrum Ana Occupied BW	lyzer 1	+							Ö	Frequenc	y + 5,
	Coupling DC: Align Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE_Adaptive	Atten: 20 dB Preamp: Ott	Trig: Free Run Gate: Otf #IF Gain: Low	Avgil	èr Freq Hold 50 5 Std N		0 GHz		Frequency 00000 GHz	Settings
1 Graph	*	1	Ref LvI Offset 27						Span 180.00	MHz	
Scale/Div 10. Log 30.0 20.0			Ref Value 40.00	dBm						000 MHz	
10.0		Lunnum	- Antonia - Tanana		min				Aut Ma		
-10.0 -20.0 -30-0	לייניאניייייייייייייייייייייי	ud				Julien		PEAK	Freq Off 0 Hz	fset	
-40.0 -50.0 Center 3,8400	00 GHz		Video BW 8.000	0 MHz			Sr	an 180 MHz			
#Res BW 1.80			1000 511 0.000	o mine		#Sw		s (1001 pts)			
2 Metrics Occu	upied Bandwidth 87.14(0 MHz		Total Power			29.9 d	Bm			
	smit Freq Error Bandwidth	-382.98 ki 91.36 Mi		% of OBW Pov x dB	wer		99.00 -26.00				Loca
= 5	C" 🗌 ?	Mar 21, 2024 10:46:34 AM	Ø								

n77(3700~3980 MHz)_90 M_OBW_Mid_64QAM_FullRB



KEYSIGHT	Input_RF Coupling_DC Align_Auto	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Off	Trig Free Run Gate: Otf #IF Gain Low	Avgi	er Freg. 3.840 Hold: 50/50 o Std: None	000000 GHz	Center Freque 3.84000000		Settings
Graph	1		Ref LvI Offset 27 Ref Value 40.00					Span 180,00 MHz		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	68			0000 2012-2017	_			CF Step 18.000000 M Auto Man	IHz	
0.00 10.0 20.0	an daria na secondo do redos					Longon	PEAK	Freq Offset 0 Hz		
40.0 50.0 enter 3.84000 Res BW 1.800			Video BW 8.000	0 MHz		#Swaap 6	Span 180 MHz 0.0 ms (1001 pts)			
Metrics	T					"otticp"				
Occup	bied Bandwidth 86.9	58 MHz		Total Power			7.9 dBm			
	mit Freq Error 3andwidth	-386.87 k 91.35 M		% of OBW Pow x dB	ver		99.00 % 26.00 dB			Loc
5		Mar 21, 2024 10:46:59 AM	Ø							

n77(3700~3980 MHz)_90 M_OBW_Mid_256QAM_FullRB



EYSIGHT	Input. RF Coupling DC Align Auto	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Ott	Trig: Free Run Gate: Off #IF Gain Low	Avai	er Freq Hold: 50 o Std: N		i GHz		Frequency 00000 GHz	Settings
Graph cale/Div 10.0	1		Ref LvI Offset 27 Ref Value 40.00						Span 200.00	MHz	
0.0	dB		Ker value 40.00						CF Step 20.000) 000 MHz	
0.0		former	minimi		in				Au Ma		
10.0 20.0 50-0 Handytanit		.				him	har of the gal of the	PEAK	Freq Of 0 Hz	fset	
50.0 enter 3,8400 (Res BW 2.000			≠Video BW 8.000	00 MHz		#Sw	Spa veep 50.0 ms	an 200 MHz (1001 pts)			
Metrics	*										
Occup	oied Bandwidth 96.68	5 MHz		Total Power			31.6 dE	lm			
	mit Freq Error 3andwidth	-545.81 ki 101.4 Mi		% of OBW Pov x dB	ver		99.00 -26.00				Loc
5		Mar 21, 2024 10:58:11 AM	Ð					- X			

n77(3700~3980 MHz)_100 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1	F						ø	Frequency	3
EYSIGHT Input. RF Coupling DC Align Auto	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE: Adaptive	Atten 20 dB Preamp Otf	Trig: Free Run Gate: Off #IF Gain: Low	Avgil	er Freg. 3.84000 Iold: 50/50 IStd: None	10000 GHz	Concession of the local division of the loca	Frequency 00000 GHz	Settings
or PASS		Ref LvI Offset 27					Span 200.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm				CF Step 20.000) 000 MHz	
20.0 10.0 0.00	from a second	1 marian and a second	- martiner				Au Ma		
10.0 20.0 30.0 www.sup.M. whereasthylocatings.mi					Impression	PEAK	Freq Of 0 Hz	fset	
40 0 50 0									
Center 3,8400 GHz #Res BW 2.0000 MHz		#Video BW 8.000	00 MHz		#Sweep 50.	Span 200 MHz 0 ms (1001 pts)			
2 Metrics									
Occupied Bandwidth 96.808	3 MHz		Total Power		31	3 dBm			
Transmit Freq Error x dB Bandwidth	-561.34 ki 101.7 Mi		% of OBW Pov x dB	wer		9.00 % 5.00 dB			Loca
	Mar 21, 2024								
	Mar 21, 2024 10:58:34 AM	<u></u>							

n77(3700~3980 MHz)_100 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	ŧ						Q.	Frequenc	y + 3
CEYSIGHT Input RF	Input Z: 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Otl	Trig: Free Run Gate: Otf #IF Gain: Low	Avgil	er Freg. 3 840000 Iold: 50/50 Std: None	000 GHz	Concession of the local division of the loca	Frequency 00000 GHz	Settings
or PASS	1	Ref LvI Offset 27					Span 200.00	MHz	
cog 30 0		Ref Value 40.00	dBm				CF Step 20.000) 000 MHz	
20.0 10.0 0.00	Januar	and a second	- Apple of the birth of the bir	animaria.			Aut Ma		
10.0 20.0 30.0 Marine Marine Marine Marine	~				homenende	PEAK	Freq Of 0 Hz	fset	
40 0 50 0									
Center 3.8400 GHz #Res BW 2.0000 MHz		#Video BW 8.000	00 MHz			Span 200 MHz ms (1001 pts)			
2 Metrics									
Occupied Bandwidth 96.638	3 MHz		Total Power		30.3	dBm			
Transmit Freq Error x dB Bandwidth	-646.61 kl 101.6 M		% of OBW Pov x dB	wer	99	.00 % 00 dB			Loc
16010	Mar 21, 2024 10:58:57 AM	A							
	10:58:57 AM	9							

n77(3700~3980 MHz)_100 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	ŧ							¢	Frequency	1 + 3
	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE_Adaplive	Atten 20 dB Preamp Off	Trig: Free Run Gate: Ott #IF Gain: Low	Avgil	er Freq 3 Iold 50/ Std No) GHz	Concession of the local division of the loca	Frequency 00000 GHz	Settings
PASS	1	Ref LvI Offset 27						Span 200,00	MHz	
Scale/Div 10.0 dB Log 30.0		Ref Value 40.00	dBm					CF Step 20.000) 000 MHz	
20.0	param	and all and a second second	موسعه الاسترابي مرجا وسادرت					Aut Ma		
10.0						وسروالعالي	PEAK	Freq Off 0 Hz	íset	
200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					10000		fernika (no. miljio da fong			
Center 3.8400 GHz #Res BW 2.0000 MHz		Video BW 8.00	00 MHz		#Swe		an 200 MHz s (1001 pts)			
2 Metrics										
Occupied Bandwidth 96.703	2 6/14-		Total Power			29.9 d	200			
Transmit Freq Error x dB Bandwidth	-564.05 kl 101.5 M		% of OBW Pov x dB	wer		99.00 -26.00	%			Loc
x dB Bandwidth		~	x dB							Lo
	Mar 21, 2024 10:59:20 AM	D				6.2				

n77(3700~3980 MHz)_100 M_OBW_Mid_64QAM_FullRB



Spectrum Anal Occupied BW	yzer 1	+							Ċ,	Frequenc	y v S
	Input_RF Coupling_DG Align_Auto	Input Z 50 Q Corr CCorr Freq Ref. Int (S) NFE Adaptive	Atten 20 dB Preamp Ott	Trig: Free Run Gate: Off #IF Gain: Low	Avgil	ar Freq Hold 50 Std N		0 GHz		Frequency 00000 GHz	Settings
Braph	*		Ref LvI Offset 27						Span 200.00	MHz	
Scale/Div 10.0	dB		Ref Value 40.00	dBm					CF Step 20.000) 000 MHz	
20.0		promo		mental and the	-m				Au Ma		
10.0						-		PEAR	Freq Of 0 Hz	fset	
-30°0							telle province and province	19-00-19-19-19-19-19-19-19-19-19-19-19-19-19-			
Center 3,8400 #Res BW 2.00			Video BW 8.000	00 MHz		#Sw		oan 200 MHz s (1001 pts)			
2 Metrics											
Occu	pied Bandwidth	3 MHz		Total Power			27.9 d	Bm			
	mit Freq Error Bandwidth	-700.69 kl 101.7 Mi		% of OBW Pov x dB	ver		99.00 -26.00)%			Loo
		Mar 21, 2024									
-)		Mar 21, 2024 10:59:44 AM	Ð								

n77(3700~3980 MHz)_100 M_OBW_Mid_256QAM_FullRB





n77(3700~3980 MHz)_10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_10 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_15 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_15 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_20 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_20 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_20 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_25 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_25 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_25 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_30 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_30 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_30 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_40 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_40 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_40 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_50 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_50 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_50 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_60 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_60 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_60 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_70 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_70 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_70 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3700~3980 MHz)_80 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3700~3980 MHz)_80 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB





n77(3700~3980 MHz)_80 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB