



pectrum Analyzer 1	+						Frequency	12
L + Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 20 dB Preamp: Off	Trig: Free Run Center Freq: 1.745000000 GHz Gate: Off Avg Hold: 500/500 #IF Gain: Low Radio Std: None		Center Frequency 1.745000000 GHz		Settings	
Graph v		Ref LvI Offset 27				Span 60.000	) MHz	
cale/Div 10.0 dB		Ref Value 40.00				CF Ste 6.0000	p )00 MHz	
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0.0 0.0 0.0				- Ar	PE/	Freq O 0 Hz	ffset	
0.0					and the second of the second			
nter 1.74500 GHz es BW 620.00 kHz		Video BW 2.400	00 MHz	 Sw	Span 60 Mi reep 1.00 ms (1001 pt			
Metrics v								
Occupied Bandwidth 28.7	15 MHz		Total Power		28.4 dBm			
Transmit Freq Error x dB Bandwidth	-4.241 kl 31.94 Mi		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loc
500	May 20, 2024 2:41:37 PM	$\square$		ļ.		1		

## 30 M\_OBW\_Mid\_256QAM\_FullRB





YSIGHT Input: RF Coupling: DC Align: Auto PASS	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 Freq: 1.74 Avg Hold: 500/50 Radio Std: None		Construction and the owner of the	Frequency 00000 GHz	Settings
raph ▼ Ile/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00				70.000	MHz	
		Ref Value 40.00	JBM			CF Step	) 00 MHz	
0	Junanument	mannam	and a start of the second s	~~~		Aut Ma	0	
	rent and a second se			had been as	PEAK	Freq Of 0 Hz	fset	
0								
ter 1.74500 GHz s BW 680.00 kHz		#Video BW 2.700	0 MHz	Sweep	Span 70 MHz 1.00 ms (1001 pts			
etrics	68 MHz		Total Power		32.3 dBm			
Transmit Freq Error	-737.41 k 35.66 M		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Lo

## 35 M\_OBW\_Mid\_BPSK\_FullRB





Graph     Ref Lv1 Offset 27.14 dB     70.000 MHz       CF Step     7.00000 MHz       00     000     000       00     000     000       00     000     000       00     000     000       00     000     000       00     000     000       000     000 <th>Settings</th> <th>Center Frequency 1.745000000 GHz Span</th> <th>one</th> <th>Center Freq: 1. Avg[Hold: 500/ Radio Std: Non</th> <th>g: Free Run te: Off Gain: Low</th> <th>np: Off</th> <th></th> <th>Corr Co Freq R</th> <th>Coupling: DC Align: Auto</th> <th>EYSIGHT</th>	Settings	Center Frequency 1.745000000 GHz Span	one	Center Freq: 1. Avg[Hold: 500/ Radio Std: Non	g: Free Run te: Off Gain: Low	np: Off		Corr Co Freq R	Coupling: DC Align: Auto	EYSIGHT
7.00000 MHz Auto Man Freq Offset 0 Hz BW 680.00 kHz Auto Man Freq Offset 0 Hz Sweep 1.00 ms (1001 pts) T		70.000 MHz			3					
Allo Man Freq Offset 0 0 0 0 0 0 0 0 0 0 0 0 0										g
Freq Offset 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	natura ann a Airmanaile a	7~~		
ter 1.74500 GHz #Video BW 2.7000 MHz Span 70 MHz s BW 680.00 kHz trics v			PEAK	Howin				d d	مارور مرجور برای ارز	0
nter 1.74500 GHz Span 70 MHz s BW 680.00 kHz Sweep 1.00 ms (1001 pts) letrics Y										.0
letrics v				Swee	z	BW 2.7000 N	#Video			nter 1.7450
										letrics
Occupied Bandwidth 32.376 MHz Total Power 31.9 dBm			21.0 dBm		stal Bowar			76 MH-		Occup
Transmit Freq Error -724.80 kHz % of OBW Power 99.00 %				ver			-724.80 kHz			Trans
x dB Bandwidth 36.04 MHz x dB -26.00 dB	Loc		-26.00 dB	-	dB		36.04 MHz		Bandwidth	x dB

## 35 M\_OBW\_Mid\_QPSK\_FullRB





EYSIGHT Input: RF Coupling: DC Alian: Auto	Input Z: 50 Ω Corr CCorr Freg Ref. Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.745000000 GHz Avg Hold: 500/500 Radio Std: None	Center Frequency 1.74500000 GHz	Settings
Graph	NFE: Adaptive	Ref LvI Offset 27			Span 70.000 MHz	
ale/Div 10.0 dB		Ref Value 40.00	dBm		CF Step 7.000000 MHz	
0.0	Jannar				Auto Man	
0.0 0.0 1000000000000000000000000000000				PEA Man Manuary PEA	Freq Offset 0 Hz	
0.0						
nter 1.74500 GHz es BW 680.00 kHz		#Video BW 2.700	00 MHz	Span 70 MH Sweep 1.00 ms (1001 pt		
Netrics v						
Occupied Bandwidth 32.3	16 MHz		Total Power	31.1 dBm		
Transmit Freq Error x dB Bandwidth	-764.05 H 35.63 M		% of OBW Pow x dB	er 99.00 % -26.00 dB		Loc
		$\square$		والمحمول المالية المركزة المراجع والمحمولية المحمولية المحمولية الم		

## 35 M\_OBW\_Mid\_16QAM\_FullRB





Coupling DC Align: Auto       Corr CCorr Freq Ref: Int (S) NFE: Adaptive       Preamp. Off       Gate: Off #IF Gain: Low       Avg Hold: 500/500 Radio Std: None       Center FreqUency       Image: Center Fr		Frequency		Center Freg: 1.745000000 GHz	Trig: Free Run	Atten: 20 dB	Ζ: 50 Ω	+	nput RF	pied BW
Graph     Ref Lvi Offset 27.14 dB       ale/Div 10.0 dB     Ref Value 40.00 dBm       000     Auto       000     Auto </td <td>Settings</td> <td>presentation and an an an an an an an an and an an an and an an an and an an an and an and an an an and an an a</td> <td>Center</td> <td>Avg Hold: 500/500</td> <td>Gate: Off</td> <td></td> <td>CCorr Ref: Int (S)</td> <td>Corr C Freq F</td> <td>Coupling: DC</td> <td>++-</td>	Settings	presentation and an an an an an an an an and an an an and an an an and an an an and an and an an an and an an a	Center	Avg Hold: 500/500	Gate: Off		CCorr Ref: Int (S)	Corr C Freq F	Coupling: DC	++-
CF Step 7.000000 MHz Auto A					.14 dB	Ref LvI Offset 27	81 8098 8098 80	NFE:	•	Contract of the local division of the local
Image: Constraint of the second se		CE Sten	CE Ster		dBm	Ref Value 40.00	F		B	/Div 10.0
Opened of the second										
PEAK PEAK				1	monter		man	pon		
Operation     Second Production       Occupied Bandwidth				A MA				M		
Image: Constraint of the second se			Manathy	Mark and Marken and Andrews					where we are a	had not been the
ter 1.74500 GHz \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$										
Occupied Bandwidth					0 MHz	#Video BW 2.700	*			
									v	rics
			-							Occup
				30.5 dBm	Total Power			13 MHZ		
Transmit Freq Error     -704.14 kHz     % of OBW Power     99.00 %       x dB Bandwidth     35.54 MHz     x dB     -26.00 dB	Lo									
う C I ? May 20, 2024 2:48:28 PM の							20. 2024	May		

# 35 M\_OBW\_Mid\_64QAM\_FullRB





Spectrum Analyzer 1	+				\$	Frequency	1 1
EYSIGHT Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.745000000 ( Avg Hold: 500/500 Radio Std: None	1.7 <sup>4</sup>	ter Frequency 45000000 GHz	Settings
Graph v		Ref LvI Offset 27			Spa 70.	n 000 MHz	
cale/Div 10.0 dB og 0.0		Ref Value 40.00	dBm		CF : 7.0	Step 00000 MHz	1
0.0	James	mente your and the second	hanna	m		Auto Man	
0.0	/			Now we want	DEAK 0 H	i Offset z	
0.0				The strategy and the st	hormonycon		
enter 1.74500 GHz Res BW 680.00 kHz		#Video BW 2.700	00 MHz	Spa Sweep 1.00 ms	an 70 MHz (1001 pts)		
Metrics v							
Occupied Bandwidth	00 MU		T-1-1 D				
Transmit Freg Error	-736.87 kł	Hz	Total Power % of OBW Pow	28.5 dBn yer 99.00 %			
x dB Bandwidth	36.08 M		x dB	-26.00 dE			Loc
<b>1</b> 501	May 20, 2024 2:48:50 PM	$\square$			X		

## 35 M\_OBW\_Mid\_256QAM\_FullRB





EYSIGHT L ↔ Coupling DC Align: Auto PASS	H 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 Freq Avg Hold: 50 Radio Std: N		1.7450	Frequency Frequency 00000 GHz	Settings
Graph v cale/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00 (				Span 80.000	1000000 <u>1122</u>	
<b>og</b>						CF Step 8.0000	o 00 MHz	
0.0	Jamman	An many manual and	and a second	men		Au Ma		
0.0 0.0 0.0 0.0	/			× ×	PEA	Freq Of 0 Hz	fset	
10.0 50.0								
enter 1.74500 GHz Res BW 820.00 kHz		#Video BW 3.000	0 MHz	Sw	Span 80 MH eep 1.00 ms (1001 pt			
Metrics • Occupied Bandwidth 38.7	36 MHz		Total Power		32.5 dBm			
Transmit Freq Error x dB Bandwidth	-54.896 k 42.00 M		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Loca
	May 20, 2024 2:54:35 PM	$\odot$			: 🕃 🗄 🔀	7		

# 40 M\_OBW\_Mid\_BPSK\_FullRB





VSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Corr CCorr Freq Ref: Ir NFE: Adapt	Preamp: Off nt (S)	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: ' Avg Hold: 500 Radio Std: No			Frequency 00000 GHz	Settings
raph v ale/Div 10.0 dB		Ref LvI Offset 27 Ref Value 40.00				80.000 CF Ster		
<b>g</b>							, 00 MHz	
0	Janon	a of the second and the second second		ma		Au Ma		
0 0 0 0	1			a hr	PEA	Freq Of 0 Hz	fset	
0								
nter 1.74500 GHz es BW 820.00 kHz	•	#Video BW 3.000	00 MHz	Swe	Span 80 MH ep 1.00 ms (1001 pts			
Occupied Bandwidth	84 MHz		Total Power		32.1 dBm			
30.7	9.	654 kHz .36 MHz	% of OBW Pov x dB	ver	99.00 % -26.00 dB			Lo
Transmit Freq Error x dB Bandwidth	40							

# 40 M\_OBW\_Mid\_QPSK\_FullRB





YSIGHT Input: RF ↔ Coupling: DC Align: Auto PASS	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 Fro Avg Hold: Radio Std			Frequency 000000 GHz	Settings
raph v		Ref LvI Offset 27 Ref Value 40.00 d				80.000	00001/112/	
g 0						CF Step 8.0000	p 100 MHz	
0	generation		dyndar a ymer ddinger rae d'r yn ar oeder yddi			Au Ma		
0 0 mart de la construction de l	at a start of the			×,		Freq Of 0 Hz	ffset	
0								
nter 1.74500 GHz es BW 820.00 kHz		#Video BW 3.000	0 MHz	s	Span 80 Mi Sweep 1.00 ms (1001 pt			
etrics v	1 308 MHz		Total Power		30.9 dBm			
Transmit Freq Error x dB Bandwidth	-69.504 H 42.20 N		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loc

## 40 M\_OBW\_Mid\_16QAM\_FullRB





L	+						Frequency	1
KEYSIGHT     Input: RF       RL     Imput: 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 Freq: 1 Avg Hold: 500 Radio Std: No		1.745	Frequency 000000 GHz	Settings
Graph v		Ref LvI Offset 27 Ref Value 40.00				Span 80.00	0 MHz	
<b>og</b> 0.0		Kel Value 40.00		$\square$		CF Ste 8.000	p 000 MHz	
0.0			man and and a second	m			uto an	
0.0				- Ang	PEAJ humituulauritespetitikuuti	Freq C 0 Hz	iffset	
40.0								
enter 1.74500 GHz Res BW 820.00 kHz		#Video BW 3.000	00 MHz	Swe	Span 80 MH 20 1.00 ms (1001 pts			
Metrics v								
Occupied Bandwidth	96 MHz		Total Power		30.6 dBm			
Transmit Freq Error x dB Bandwidth	-26.181 ki 42.50 M		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Loca
501	May 20, 2024 2:55:41 PM	$\square$						

## 40 M\_OBW\_Mid\_64QAM\_FullRB





pectrum Analyzer 1 Iccupied BW	• 🕂					Frequency	•
EYSIGHT Input: RF Coupling: D Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (\$ NFE: Adaptive		Trig: Free Run Gate: Off #IF Gain: Low	Center Freg: 1.745000000 GHz Avg Hold: 500/500 Radio Std: None	1.74500	requency 00000 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		
0.0	maama	methoda and a second	Mentering and Almonto and Alliana		Auto Mar		
					PEAK Freq Off	set	
0.0					**************************************		
enter 1.74500 GHz tes BW 820.00 kHz		#Video BW 3.000	00 MHz	Span 8 Sweep 1.00 ms (10	30 MHz 01 pts)		
Metrics <b>v</b>							
Occupied Bandwi	dth 88.801 MHz		Total Power	28.5 dBm			
Transmit Freq Err x dB Bandwidth			% of OBW Pow x dB				Loc
A do Dallowider	42.00		X db	-20.00 00			200
50	May 20, 202 2:56:04 PM	4			X		

## 40 M\_OBW\_Mid\_256QAM\_FullRB



pectrum Anal wept SA	yzer 1	•	+					0	Frequency	/ •
EYSIGHT ∟ -→- 1	Input F Couplin Align: A	ng: DC	Input Ζ: 50 Ω 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 Trig: Free Run	ower (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A A	5.01500	requency 00000 GHz	Settings
Spectrum						Mk	r1 9.431 2 GHz	Span 9 97000	0000 GHz	
cale/Div 10	зB			Ref Level 10.00	dBm		-70.303 dBm	And the Owner of the	ept Span	
og .00		<u>ئ</u>		T T					o Span	
0.0								E	ull Span	
0.0										
0.0								Start Fre 30.0000	eq 000 MHz	
0.0							1.000	Stop Fre	a	
0.0							<b>1</b>		000000 GHz	
0.0 termenter	A MARINE R		and the standard states	and the second second	الانتقال المسالم بالحوالة	بالمصانعة المسالمية	المرجلا للالم المالي والمناطق المطر			
art 30 MHz				#Video BW 3.0	MHz		Stop 10.000 GHz		TO TUNE	
Res BW 1.0	MHz			#VIGEO BW 5.0	MINZ	Sweep	~18.7 ms (20001 pts)			
Marker Table								997.000	0000 MHz	
								Aut		
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	Mar	n i	
1 N 2 N	1	f	9.431 2 GHz 1.710 4 GHz	-70.30 dBm -3.212 dBm				Freq Off	set	
3			1.71040112	-5.212 dbiii				0 Hz	alarni	_
4								X Axis S	cale	Loc
5								Loc		
								Lin		
15	2	7 2	May 20, 2024	$ \rightarrow $				Signal Ti	rack	
	•		2:02:25 PM					(Span Zo	om)	



YSIGH1	Input: R Couplin Align: A	g: DC	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS123456 A WW WW W A A A A A A A	Center Frequency 5.015000000 GHz	Setting
Spectrum cale/Div 10	dB	∙ ⊘2		Ref Level 10.00	dBm	Mk	r1 8.264 2 GHz -70.610 dBm	Span 9.97000000 GHz Swept Span Zero Span	
0.0 0.0								Full Span	
30.0 10.0 50.0								Start Freq 30.000000 MHz	
50.0 70.0 50.0	atta a second			and the second second	المالية المراجع المراجع	مان العزيدة الارماني. الم	PMS	Stop Freq 10.000000000 GHz	
tart 30 MHz Res BW 1.0	MHz			#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)	AUTO TUNE CF Step 997.000000 MHz	
Marker Table Mode	Trace	• Scale	x	Y	Function	Function Width	Function Value	Auto Man	
1 N 2 N 3	1	f f	8.264 2 GHz 1.742 8 GHz	-70.61 dBm -3.308 dBm				Freq Offset 0 Hz	
4 5 6								X Axis Scale Log Lin	Lo
0									



Spectrum       Mkr1 3.989 1 GHz       9.9700000 GHz         ale/Div 10 dB       Ref Level 10.00 dBm       -71.002 dBm         0       -2       -2         0       -2       -2         0       -2       -2         0       -2       -2         0       -2       -2         0       -2       -2         0       -2       -2         0       -2       -2         0       -2       -2         1       -2       -2         1       -2       -2         1       -2       -2         1       -2       -2         1       -2       -2         1       -2       -2         1       -2       -2         1       -2       -2       -2         1       -2       -2       -2       -2         1       -2       -3       -2       -2         1       -3       -3       -2       -2         1       -3       -2       -2       -2         1       -3       -2       -2       -2       -2         1	EYSIGH <sup>™</sup> +→-	Input: RF Coupling Align: Au	DC	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	Center Frequency 5.015000000 GHz	Setting
Image: Construction of the co	<b>bg</b> 00				Ref Level 10.00	dBm	Mk		Swept Span	
Mode         Trace         Scale         X         Y         Function         Function         Video         Man         Freq         Man           1         1         f         3.989 1 GHz         -71.00 dBm         Freq         0 dt         Man         Freq         0 dt         Man         Freq         0 dt         0 dt         Man         Freq         0 dt         0 dt <t< td=""><td>0.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Start Freq</td><td></td></t<>	0.0								Start Freq	
Marker Table         Sweep ~18.7 ms (20001 pts)         CF Step           Marker Table         Image: Comparison of the state of the stat	50.0 70.0 30.0	Japanete		الموديسة المقام والمنا تروين	1	which in which	بم <sub>ت</sub> در الم	BMS.	10.00000000 GHz	
1         N         1         f         3.989         1 GHz         -71.00 dBm           2         N         1         f         1.775         2 GHz         -3.821 dBm         Freq Offset         0 Hz           3					#Video BW 3.0	MHz	Sweep		CF Step 997.000000 MHz	
5 X Axis Scale Log	Marker Table		Scale f	3.989 1 GHz	-71.00 dBm	Function	Function Width	Function Value	Freq Offset	
	Mode 1 N 2 N	1	f	1.1102 0112					The second se	



pectrum       Mkr1       8.057       8 GHz 9.97000000 GHz         ale/Div 10 dB       Ref Level 10.00 dBm       -70.922 dBm         0       -70.922 dBm       -70.922 dBm         1       Full Span         2       -70.922 dBm         1       Full Span         5       Stop Freq         1.00000000 GHz       Stop Freq         1.00000000 GHz       Stop Freq         1.000000000 GHz       -70.922 dBm         1       Freq         1       1         1       1         1       1         1       Freq         1       70.922 dBm         1       1         1       1         1       1         2       1         1       1         2       1         1       1.710 4 GHz         3.925 dBm       -70.92 dBm         1       1.710 4 GHz         3.925 dBm       -70.92 dBm         1       1.710 4 GHz         2       1         1       1.710 4 GHz         3.925 dBm       -1.710 4 GHz         3.925 dBm       -1.710 4 GHz	YSIGHT -+-	Input F Couplin Align A	ig: DC	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS 1 2 3 4 5 6 A WW WW W A A A A A A A	5.01500	requency 10000 GHz	Setting
00       2       2       3       5       5       5       5       5       5       5       5       5       1       Function       Function       Function       Video       Main       Freq       00 <th>pectrum</th> <th>dB</th> <th></th> <th>a presidente a record de calendo</th> <th>Ref Level 10.00</th> <th>EAS CONTRACTOR</th> <th>Mk</th> <th></th> <th>Swe</th> <th>ept Span</th> <th></th>	pectrum	dB		a presidente a record de calendo	Ref Level 10.00	EAS CONTRACTOR	Mk		Swe	ept Span	
0.0       0	00 0.0 0.0		02								
0.0       1       Fireq       Stop Freq       1.000000000 GHz         1       #Video BW 3.0 MHz       Stop 10.000 GHz       1.000000000 GHz         art 30 MHz       #Video BW 3.0 MHz       Stop 10.000 GHz       1.000000000 GHz         Kes BW 1.0 MHz       Stop 10.000 GHz       97.00000 MHz       1.00000000 MHz         Marker Table       V       Function       Function Vidth       Function Value         1       N       1       f       8.057 8 GHz       -70.92 dBm       Freq Offset       0 Hz         2       N       1       f       1.710 4 GHz       -3.925 dBm       0 Hz       Xaxis Scale         4       -       -       -       -       -       -       -         3       -       -       -       -       -       -       -         6       -       -       -       -       -       -       -       -         0       -       -       -       -       -       -       -       -       -         2       N       1       f       1.710 4 GHz       -3.925 dBm       -       -       -       -       -       -       -       -       -       -	0.0										
Auto TUNE Auto TUNE Auto MHz Sweep ~18.7 ms (20001 pts) Marker Table Mode Trace Scale X Y Function Function Width Function Value 1 N 1 f 8.057 8 GHz -70.92 dBm 2 N 1 f 1.710 4 GHz -3.925 dBm 4 5 5 6 6 7 8 6 7 8 6 7 8 6 7 8 7 8 7 8 7 8 7	0.0			بالجميدن خالبانه فبول والمحمد والم		مر المراحية		1		Contraction of the second s	
Mode     Trace     Scale     X     Y     Function     Function Width     Function Value       1     N     1     f     8.057 8 GHz     -70.92 dBm       2     N     1     f     1.710 4 GHz     -3.925 dBm       3     4     -     -     -       5     -     -     -     -       6     -     -     -     -	tart 30 MHz	MHz	<u>الا التعقيم</u>		#Video BW 3.0	MHz	Sweep				
1         N         1         f         8.057 8 GHz         -70.92 dBm           2         N         1         f         1.710 4 GHz         -3.925 dBm           3         4         -         -         -         -           4         -         -         -         -         -           5         -         -         -         -         -           6         -         -         -         -         -	Marker Table		•								
2 N 1 f 1.710 4 GHz -3.925 dBm 3 4 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		Trace	Scale			Function	Function Width	Function Value	Mar	1	
5 X Axis Scale Log	2 N	1	f							set	
											Lo



KEYSIGHT	Input F Couplin Align: A	g: DC	Input Ζ: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	Center Fro 5.015000 Span		Settings
Spectrum cale/Div 10 c	B	•		Ref Level 10.00	dBm	Mk	r1 8.279 7 GHz -70.981 dBm	9.970000 Swep	00 GHz ot Span Span	
0.00		2							l Span	
30.0 40.0 50.0								Start Freq 30.00000		
60.0 70.0 80.0	يختبين تباد		مر و المان الم مسالم	مي المصنعة مسالية المسالية ال	in the second	والمتحر المترجع والمتحر والمتحر	A RMS	Stop Freq 10.00000	0000 GHz	
start 30 MHz Res BW 1.0 I	MHz			#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)		D TUNE	
5 Marker Table	_	•			_	_	_	997.0000 Auto	00 MHz	
Mode 1 N	Trace	Scale	X 8.279 7 GHz	Y -70.98 dBm	Function	Function Width	Function Value	Man		
2 N 3	1	f	1.740 4 GHz	-3.987 dBm				Freq Offse 0 Hz	et	
4 5 6								X Axis Sc Log Lin	ale	Loc
5	6	7?	May 20, 2024 2:13:35 PM	ÐA				Signal Tra (Span Zoor		



Swept SA	Analy	zer 1	•	t					Ċ.	Frequency	1 2
EYSIG	HT	Input F Couplir Align: A	ig: DC	Input Ζ: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	5.0150	requency 00000 GHz	Settings
Spectrum	n		¥				Mk	r1 8.302 6 GHz	Span 9 9700	0000 GHz	
cale/Div	10 di	в			Ref Level 10.00	dBm		-71.149 dBm	0.0700	ept Span	
og .00			٥2							o Span	
0.0			V-						F	ull Span	
0.0									Start Fre 30.000	eq 000 MHz	
D.0								1 RMS	Stop Fre	eq 000000 GHz	
0.0		n a starter		المناهد الاحتمر ومخاولته	Mi viget on a	الاستخليا المريقي المريك	بالمورية والمرجعة والمرجعة والمرجع	المستكن بالمستخل المشرقات		TO TUNE	
art 30 M Res BW		LU7			#Video BW 3.0	MHz	Sween	Stop 10.000 GHz ~18.7 ms (20001 pts)			
Marker Ta		1112					Succh	10.7 113 (2000) pt3)		0000 MHz	
		_				_	_	_	Aut		
Mo 1 N		Trace	Scale	X 8.302 6 GHz	Y -71.15 dBm	Function	Function Width	Function Value	Ma	n	
2 N 3		1	f	1.770 8 GHz	-3.698 dBm				Freq Off 0 Hz	set	
4 5 6									X Axis S Loç Lin		Loc
-	) (	2	2	May 20, 2024 2:15:26 PM					Signal T (Span Zo		



	Input R Couplin Align: A	g: DC	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS 1 2 3 4 5 6 A WW WW W A A A A A A A	Center Frequency 5.015000000 GHz	Setting
ectrum le/Div 10 d	iB	∙ ∆2		Ref Level 10.00	dBm	Mk	r1 8.331 5 GHz -70.666 dBm	Span 9.97000000 GHz Swept Span Zero Span	
)								Full Span	
								Start Freq 30.000000 MHz	
			and a second specific desired	han	hapter and the second	بلي المريك المريك المريك	T RMS	Stop Freq 10.000000000 GH	z
t 30 MHz s BW 1.0 I	ИНz			#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)	CF Step	
arker Table		•						997.000000 MHz	
Mode 1 N	Trace	Scale	X 8.331 5 GHz	Y -70.67 dBm	Function	Function Width	Function Value	Auto Man	
2 N 3	1	f	1.710 4 GHz	-3.021 dBm				Freq Offset 0 Hz	
4 5 5								X Axis Scale Log Lin	La



KEYSIGHT RL ++-	Input F Couplin Align: A	g: DC	Input Ζ: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	Center Free 5.0150000 Span		Settings
Spectrum	1B	∙ ⊘2		Ref Level 10.00	dBm	Mk	r1 9.125 6 GHz -71.067 dBm	9.9700000	Span	
10.0 20.0 30.0 40.0								Full Start Freq 30.000000	Span MHz	
-50.0 -60.0 -70.0 -80.0	والمسترجع			-	~~~~	المرد المترد الترد التر المقدين	میں اور	Stop Freq 10.000000		
Start 30 MHz #Res BW 1.0 I 5 Marker Table	MHz	•		#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)	CF Step 997.00000	TUNE 0 MHz	
Mode 1 N 2 N 3 4 5	Trace 1 1	Scale f f	X 9.125 6 GHz 1.738 4 GHz	Y -71.07 dBm -3.855 dBm	Function	Function Width	Function Value	Auto Man Freq Offset 0 Hz X Axis Scal		Los
ໍ 4 ກ		72	May 20, 2024 2:20:41 PM					Log Lin Signal Trac	k	



spectrum ale/Div 10 dB	•		Ref Level 10.00	dBm	Mk	r1 4.014 5 GHz -70.990 dBm		
							Full Span Start Freq	
			1				30.000000 MHz Stop Freq	
art 30 MHz es BW 1.0 MHz		and before in the destroy of the second	#Video BW 3.0	MHz	Sweep	EMS Stop 10.000 GHz ~18.7 ms (20001 pts)		
Marker Table	T			_			997.000000 MHz	
Mode Trace	e Scale	X 4.014 5 GHz	Y -70.99 dBm	Function	Function Width	Function Value	Man	
2 N 1 3	f	1.765 8 GHz	-3.423 dBm				Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	La



ectrum Anal ept SA	**************************************	- L	+				<u></u>	\$	Frequency	
YSIGH1	Couplin Align: A	ig: DC	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WWWWW</del> AAAAAA	5.0150	Frequency 00000 GHz	Settings
pectrum		•	4 800 - COO AND COM 200 - CONSER			Mk	r1 9.741 8 GHz	Span 9.9700	0000 GHz	
le/Div 10	dB			Ref Level 10.00	dBm		-70.462 dBm		ept Span o Span	
								F	ull Span	
								Start Fre 30.000	eq DOO MHz	
0 0 0					and the state of	and survey where the	1	Stop Fre 10.000	eq 000000 GHz	
o t 30 MHz		angel havene		#Video BW 3.0	MHz		Stop 10.000 GHz	AU	TO TUNE	
s BW 1.0	MHz					Sweep	~18.7 ms (20001 pts)	CF Step 997.00	0000 MHz	
Mode	Trace	Scale	x	Y	Function	Function Width	Function Value	Aut Ma		
1 N 2 N 3	1	f f	9.741 8 GHz 1.710 4 GHz					Freq Off 0 Hz	'set	
4 5 6								X Axis S Log Lin	1	Lo
ょ	3		May 20, 2024 2:24:38 PM					Signal T	rack	



EYSIGHT L +>- I	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A WWWWW A A A A A A	Center Frequency 5.015000000 GHz	Settings
Spectrum cale/Div 10	dB	2	Ref Level 10.00	dBm	Mk	r1 4.036 4 GHz -70.803 dBm	Span 9.97000000 GHz Swept Span Zero Span	
10.0 20.0 30.0 40.0							Full Span Start Freq 30.000000 MHz	
60.0 70.0 80.0		a ja kirken andre andre andre andre andre andre andre andre andre and	1	البيقور بالبرية ويقترينهم	بەلىرىلەر بالارغان بالار	RMS الاستأثرية البينية والله والله	Stop Freq 10.00000000 GHz AUTO TUNE	
tart 30 MHz Res BW 1.0	MHz T		#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)		
Mode	Trace Sca 1 f	le X 4.036 4 GH 1.735 9 GH		Function F	Function Width	Function Value	Man Freq Offset 0 Hz	
1 N 2 N 3 4								Lo



Spectrum A Swept SA	nalyze	er 1	•	F					\$	Frequency	- Y 20
KEYSIG RL ↔	C	iput: RF oupling Jign: Au	DC	Input Ζ: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A A		requency 00000 GHz	Settings
1 Spectrum							Mk	r1 9.105 2 GHz	and a second second	000 GHz	
cale/Div	10 dB				Ref Level 10.00	dBm		-70.351 dBm		ept Span	
.og			02		T T					o Span	
10.0									F	ull Span	
30.0 40.0									Start Fre 30.000	eq 100 MHz	
50.0 60.0 70.0								1 RMS	Stop Fre 10.0000	9 000000 GHz	
80.0		-	un lunan	A sign with the second s	and the second second	and the second she was	المواجع والازالي المراجع	المصاحبية فبالم والمفاحية فالمراقع			
tart 30 MI Res BW 1		z			#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ∼18.7 ms (20001 pts)	CF Step	TO TUNE	
Marker Ta	ble								997.000	0000 MHz	
Mod	de Tr	race :	Scale	x	Y	Function	Function Width	Function Value	Aut Mai		
1 N		1	f	9.105 2 GHz	-70.35 dBm				Freq Off	tas	
2 N 3		1	f	1.760 8 GHz	-2.665 dBm				0 Hz		1.0
4 5									X Axis S		Loca
6									Log Lin		
15	) (	3	2	May 20, 2024 2:29:40 PM	ÐA				Signal T (Span Zo		



+-	Input RF Coupling I Align: Auto		Input Z: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WWWWW</del> AAAAAA	Center Frequency 5.015000000 GHz	Setting
ectrum le/Div 10 ( ]		2		Ref Level 10.00	dBm	Mk	r1 8.002 5 GHz -70.397 dBm	Span 9.97000000 GHz Swept Span Zero Span	
)								Full Span	
0 0								Start Freq 30.000000 MHz	
0 0 0	الاسترياب المرا	ميلمنيين	والمراجعة والمتحافظ والمحافظ والمحافظ والمحافظ	مير ميرينين المرينية الم	manu	والمعادية والمعادية	1 مىلغوناتورىتى مارىكى	Stop Freq 10.000000000 GHz	
t 30 MHz s BW 1.0	MHz			#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ∼18.7 ms (20001 pts)	CF Step	
arker Table	V							997.000000 MHz	
	Trace S	cale	X 8.002 5 GHz	Y -70.40 dBm	Function	Function Width	Function Value	Man	
Mode		f	1.710 9 GHz	-3.755 dBm				Freq Offset 0 Hz	
Mode 1 N 2 N 3 4	1	<u>'</u>							



Spectrum		Ref Level 10.00	dBm		r1 9.115 2 GHz -70.371 dBm	Swept Span Zero Span Full Span Start Freq 30.000000 MHz Stop Freq	
20.0 30.0 50.0 70.0 30.0 50.0					1	Start Freq 30.00000 MHz Stop Freq	
50.0 70.0 30.0 ar times a sharibitarity					<u>1</u>		1
tart 30 MHz			ماننىنىلىرىلىرىكى تارىيەسىيە	and the second second	HMS	10.000000000 GHz	
Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep 4	Stop 10.000 GHz ~18.7 ms (20001 pts)		
Mode         Trace         S           1         N         1           2         N         1           3         3	Scale X f 9.115 2 f 1.733 4		Function F	Function Width	Function Value	Man Freq Offset 0 Hz	
4 5 6						X Axis Scale Log Lin	La



	nput: RF Coupling: DC Nign: Auto	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	Center Frequency 5.015000000 GHz	Setting
pectrum ale/Div 10 dB g	•	2	Ref Level 10.00	) dBm	Mk	r1 3.791 7 GHz -70.814 dBm	0.0100000000112	
).0 ).0 ).0 ).0							Full Span Start Freq 30.000000 MHz	
0.0 0.0 0.0 <b></b>	المتعانيتيه	ومروانا ومراجع والمتروم والمتحد والم			and a state of the s	RMS الىمانىرىلىلى الإيلام بىلام بىلام	Stop Freq 10.00000000 GHz AUTO TUNE	
art 30 MHz es BW 1.0 MH Marker Table	iz v		#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)		
1 N 2 N 3	race Sca 1 f 1 f	le X 3.791 7 GH 1.755 8 GH			Function Width	Function Value	Man Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	La



Independent of the second s	YSIGH1 ⊷	Input RF Coupling D Alian; Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low	#Avg Type: Po Trig: Free Run	wer (RMS123456	Center Fre 5.015000		Setting
mkr1       4.033       0       9.97000000       GHz         ale/Div 10 dB       Ref Level 10.00 dBm       -70.578 dBm       Swept Span         2       2       -       -       -       -       Swept Span       Zero Span         2       -       -       -       -       -       -       Start Freq       30.000000 GHz         3       -       -       -       -       -       -       Stop Freq       10.00000000 GHz         4       -       -       -       -       -       -       -       Stop Freq       10.000000000 GHz         4       -		Aligh. Auto					<b>A A A A A A</b>	-	000 0112	
9       2	pectrum					Mk	r1 4.033 0 GHz		00 GHz	
00       2		dB		Ref Level 10.00	dBm		-70.578 dBm	Swept	t Span	
1       1       Fund span         1       1       1       1         1       1       1       1         1       1       1       1         1       1       1       1       1         1       1       1       1       1       1         1       1       1       1       1       1       0.00000000000000000000000000000000000	<b>bg</b> 00	$\diamond$	2					Zero S	Span	
000       0000       0000       000       000 <td< td=""><td>0.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Full</td><td>Span</td><td></td></td<>	0.0							Full	Span	
Mode         Trace         Scale         X         Y         Function         Function         Video         Video         Marker         Table         CF         Stop         Freq         10.00000000         GHz         Auto         Marker         Man         Freq         Official         Auto         Marker         Man         Freq         Official         Man         Man         Freq         Official         Man         Man         Man         Man         Freq         Official         Man	0.0									
Mode         Trace         Scale         X         Y         Function         Function         Width         Function         Value           1								30.00000	) MHz	
000       marken Table       #Video BW 3.0 MHz       Stop 10.000 GHz       CF Step         Marker Table         Sweep ~18.7 ms (20001 pts)       GF Step         Marker Table         Auto       Man         1       N       1       f       4.033 0 GHz       -70.58 dBm       Freq Offset       Hz         2       N       1       f       1.710 9 GHz       -3.365 dBm       Freq Offset       Hz       Hz         3       4       -       -       -       -       -       -       -       Log	50.0			1						
Marker Table         Yideo BW 3.0 MHz         Stop 10.000 GHz Sweep ~18.7 ms (20001 pts)         CF Step 997.000000 MHz           Marker Table         Image: Comparison of the state of the stat	0.0									
Marker Table         Sweep ~18.7 ms (20001 pts)         CF Step         997.000000 MHz           Marker Table         Mode Trace Scale         X         Y         Function         Function Vidth         Function Value         Auto           1         N         1         f         4.033 0 GHz         -70.58 dBm         Freq Offset         Hz         Auto           3         -		Contraction of the	محسيدوه الافتياميين وتعاصلون وملسوليه	الاستنافيه المسلم والمسلم	when marine	بالباطر منيعوناني	RMS	10.000000	0000 GHz	
Maker labe     Auto       Mode Trace Scale     X     Y       1     N     1       4     1       5     1       6     1	80.0 mitaliate	No. of the second second				والمحلي والمتريد ومريا للمعن	فيرسلن بالموينان والتوينان المقاده	AUTO		
Mode         Trace         Scale         X         Y         Function         Function         Width         Function         Value           1         N         1         f         4.033.0 GHz         -70.58 dBm         Freq Offset         0 Hz         Freq Offset         0 Hz         VAxis Scale         Log         Log         Lin         Log         Lin         Log         Lin         Log         Lin         Lin         Log         Lin         Log         Lin         Lin <t< td=""><td>ant 30 MHz</td><td>MHz</td><td>an an a</td><td></td><td></td><td></td><td>Stop 10.000 GHz</td><td>AUTO</td><td></td><td></td></t<>	ant 30 MHz	MHz	an a				Stop 10.000 GHz	AUTO		
1         N         1         f         4.033 0 GHz         -70.58 dBm         Freq Offset         Freq Offset         0 Hz         1 <td>art 30 MHz Res BW 1.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Stop 10.000 GHz</td> <td>AUTO CF Step</td> <td>TUNE</td> <td></td>	art 30 MHz Res BW 1.0						Stop 10.000 GHz	AUTO CF Step	TUNE	
2 N I I I I I I I I I I I I I I I I I I	30.0 magaining tart 30 MHz Res BW 1.0 Marker Table	v		#Video BW 3.0	MHz	Sweep	ی اور	AUTC CF Step 997.00000	TUNE	
5 6 Log Lin	art 30 MHz Res BW 1.0 Marker Table Mode	v	ale X	#Video BW 3.0	MHz	Sweep	ی اور	AUTC CF Step 997.00000 Auto Man	DO MHZ	
6 Lin	0 0 myslede art 30 MHz Res BW 1.0 Marker Table Mode 1 N 2 N	Trace Sc	ale X 4.033 0 GH	#Video BW 3.0 Y z -70.58 dBm	MHz	Sweep	ی اور	AUTO CF Step 997.00000 Auto Man Freq Offset	DO MHZ	
	0 0 art 30 MHz Res BW 1.0 Marker Table Mode 1 N 2 N 3 4	Trace Sc	ale X 4.033 0 GH	#Video BW 3.0 Y z -70.58 dBm	MHz	Sweep	ی اور	AUTO CF Step 997.00000 Auto Man Freq Offset 0 Hz	DO MHZ	
	0 0 art 30 MHz art 30 MHz Res BW 1.0 Marker Table Mode 1 N 2 N 3 4 5	Trace Sc	ale X 4.033 0 GH	#Video BW 3.0 Y z -70.58 dBm	MHz	Sweep	ی اور	AUTC CF Step 997.00000 Auto Man Freq Offse 0 Hz X Axis Sca Log	DO MHZ	La



Mkr1       8.262 2 GHz       9.97000000 GHz         Scale/Div 10 dB       Ref Level 10.00 dBm       -70.964 dBm         C00       2       -70.964 dBm         100       -70.964 dBm       -70.964 dBm         500       -70.964 dBm       -70.964 dBm         100       -70.964 dBm       -70.964 dBm         500       -70.964 dBm       -70.964 dBm         100       -70.964 dBm       -70.964 dBm         100       -70.964 dBm       -70.964 dBm         100       -70.964 dBm       -70.964 dBm         1000       -70.964 dBm       -70.964 dBm	KEYSIGHT RL +++ M	Input: Rf Coupling Align: Au	r DC	Input Ζ: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WWWW</del> W A A A A A A	Center Frequency 5.015000000 GHz	Setting
200       2	cale/Div 10 c				Ref Level 10.00	dBm	Mk		Swept Span Zero Span	
Marker Table       Y       Function       Function       Function       Video       Function       Function       Video       Vi	20.0								Start Freq 30.000000 MHz	
Mode         Trace         Scale         X         Y         Function         Function         Width         Function         Value           1         1         1         8.262.2 GHz         -70.96 dBm         -70.96 dBm         -70.96 dBm         Freq Offset         0 Hz           3         1         1         1.730.9 GHz         -2.842 dBm         -70.96 dBm	-60.0 -70.0 -80.0	مەربىلىرىنى بىلىرىنى بىلىرىنى ئىلىرىنى بىلىرىنى بىلى	Jun	The second se			بالندوه وراخير والمراجل	Stop 10 000 GHz	10.000000000 GHz	
Mode         Trace         Scale         X         Y         Function         Function         Width         Function         Value           1         N         1         f         8.262.2 GHz         -70.96 dBm         Freq Offset         Freq Offset         Freq Offset         0 Hz         0 Hz         0 Hz         0 Hz         Freq Offset         0 Hz         0 Hz <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td>Sweep</td> <td></td> <td>CF Step 997.000000 MHz</td> <td></td>			•				Sweep		CF Step 997.000000 MHz	
X Axis Scale	1 N 2 N	1	f	8.262 2 GHz	-70.96 dBm	Function	Function Width	Function Value	Man Freq Offset 0 Hz	Lo



YSIGHT -≁-	Input: RF Coupling: I Align: Auto		Input Z: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	Center Frequency 5.015000000 GHz	Setting
pectrum ale/Div 10 dl g		<b>∂</b> 2		Ref Level 10.00	dBm	Mk	r1 8.856 9 GHz -70.266 dBm	0.0700000000112	
0.0 0.0 0.0 0.0								Full Span Start Freq 30.000000 MHz	
0.0 0.0 0.0	فحود ودراد أترزوه			متير أحتريناهم زمني المغ			BMS	Stop Freq 10.00000000 GH AUTO TUNE	2
art 30 MHz es BW 1.0 M Marker Table	Hz Y			#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)		
1 N 2 N 3	Trace S 1 1	cale f f	X 8.856 9 GHz 1.750 8 GHz	Y -70.27 dBm -3.323 dBm	Function	Function Width	Function Value	Man Freq Offset 0 Hz	
4 5 6								X Axis Scale Log Lin	La



D D D D D D D D			Ref Level 10.00	dBm	Mk	r1 4.019 0 GHz -70.701 dBm	Swept Span Zero Span Full Span Start Freq	
0							Start Freq	
0								
0							30.000000 MHz	
	N .		1			RMS	Stop Freq 10.000000000 GHz	
nrt 30 MHz es BW 1.0 MHz	فالمتعاولين المتناه		#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)		
Marker Table	•						997.000000 MHz	
Mode Trace	Scale	X	Y	Function	Function Width	Function Value	Man	
1 N 1 2 N 1 3	f	4.019 0 GHz 1.710 9 GHz	-70.70 dBm -3.444 dBm				Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	La



Spectrum       Mkr1 4.049 9 GHz         icale/Div 10 dB       Ref Level 10.00 dBm       -70.622 dBm         00       0       0       0         010       0       0       0         020       0       0       0         030       0       0       0         040       0       0       0         050       0       0       0         050       0       0       0         060       0       0       0         070       0       0       0         070       0       0       0         070       0       0       0         070       0       0       0         070       0       0       0         070       0       0       0         070       0       0       0       0         070       0       0       0       0       0         070       0       0       0       0       0       0         070       0       0       0       0       0       0       0         07000000 GHz       0       0	KEYSIGHT RL +++ M	Input R Couplin Align: A	g: DC	Input Ζ: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	Center Frequency 5.015000000 GHz Span	Setting
Image: Constraint of the second se	cale/Div 10 o	iB			Ref Level 10.00	dBm	Mk		9.97000000 GHz Swept Span Zero Span	
Mode         Trace         Scale         X         Y         Function         Function         Width         Function         Value           1         1         1         1         1         1         Auto         Marker           1         1         1         1         1         1         0.00000000 GHz         0.000000000 GHz         0.00000000 GHz         0.000000000 GHz         0.00000000 GHz         0.00000000 GHz         0.00000000 GHz         0.00000000 GHz         0.00000000 GHz         0.00000000 GHz         0.0000000 GHz         0.0000000 GHz         0.00000000 GHz         0.0000000	0.0								Start Freq	
Marker Table     Y     Function     Function     Width     Function     Value       1     N     1     f     4.049     GHz     -70.62     dBm	60.0 70.0	dina partes	lum	مر المراجع الم المراجع المراجع	1 	السامرية والمراحية		RMS	10.00000000 GHz	
Mode         Trace         Scale         X         Y         Function         Function Width         Function Value         Man           1         N         1         f         4.049.9 GHz         -70.62 dBm         Freq Offset         0 Hz         Freq Offset         0 Hz           3         -	tart 30 MHz Res BW 1.0 Marker Table	MHz	•		#Video BW 3.0	MHz	Sweep		CF Step 997.000000 MHz	
	1 N 2 N 3	1	f	4.049 9 GHz	-70.62 dBm	Function	Function Width	Function Value	Man Freq Offset	Lo



	put: RF pupling: DC ign: Auto	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS 1 2 3 4 5 6 A WW WW W A A A A A A A	Center Frequency 5.015000000 GHz	Setting
Spectrum ale/Div 10 dB	∙ ≬2		Ref Level 10.00	dBm	Mk	r1 8.556 3 GHz -70.513 dBm	Span 9.97000000 GHz Swept Span Zero Span	
0.0 0.0 0.0 0.0							Full Span Start Freq 30.000000 MHz	
0.0 0.0 0.0 <mark>14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 </mark>	diritan ing a second	الموازي ومن المراجع ومن المراجع	مر منبطق معرف ما المسلح		-	RMS میکنوند میکنوند. میکنوند میکنوند میکنوند میکنوند میکنوند	Stop Freq 10.000000000 GHz AUTO TUNE	
art 30 MHz tes BW 1.0 MH Marker Table	2 		#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ~18.7 ms (20001 pts)		
1 N	ace Scale 1 f 1 f	X 8.556 3 GHz 1.745 8 GHz	Y -70.51 dBm -3.410 dBm	Function I	Function Width	Function Value	Man Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	La



EYSIGH1	Input: RF Coupling: D Align: Auto	C Co Fre	out Z: 50 Ω nr CCorr eq Ref: Int (S) Έ: Adaptive	#Atten: 20 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A		requency 00000 GHz	Setting
Spectrum ale/Div 10 99		2		Ref Level 10.00	dBm	Mk	r1 8.275 7 GHz -69.979 dBm	9.97000 Swe	0000 GHz ept Span o Span	
.0								Fi	ull Span	
0.0								Start Fre 30.0000	eq 000 MHz	
0.0 0.0 0.0		مونستعيين	بالافر مدورة فالمنافق والمس	وزراله فدينه فريناه	-	والمنافعة والمتعادية	A RMS	Stop Fre 10.0000	eq 000000 GHz	
art 30 MHz es BW 1.0	MHz			#Video BW 3.0	MHz	Sweep	Stop 10.000 GHz ∼18.7 ms (20001 pts)	CF Step	Sense and the sense of the sense	
Marker Table	*				- 4			Auto		
	Trace Sc	ale f	X 8.275 7 GHz	Y -69.98 dBm	Function	Function Width	Function Value	Mar		
Mode	1	f	1.710 9 GHz	-3.347 dBm				Freq Off: 0 Hz	set	
	1									
Mode 1 N 2 N	1							X Axis S Log Lin		Lo



Spectrum Ana Swept SA	a martina a s	- 1 L	+					\$	Frequency	( <b>1</b> 🖓
KEYSIGHT RL ++- M	Coupling Align: Au	I DC	Input Z: 50 Ω 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 Trig: Free Run	wer (RMS <mark>1</mark> 23456 A WW WW W A A A A A A		Frequency 00000 GHz	Settings
Spectrum	3					Mk	r1 7.993 5 GHz	Res and	0000 GHz	
cale/Div 10	dB	()2		Ref Level 10.00	dBm		-70.731 dBm	Sw	ept Span ro Span	
0.0								F	ull Span	
0.0 0.0 0.0								Start Fr 30.000	eq 000 MHz	
50.0 70.0			t				1 RMS	Stop Fr 10.000	eq 000000 GHz	
tart 30 MHz Res BW 1.0	MHz	ad base	and a second sec	#Video BW 3.0	MHz	Sween	Stop 10.000 GHz ~18.7 ms (20001 pts)		TO TUNE	
Marker Table		•				Gildep	10.7 mb (20001 pto)		0000 MHz	
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	Au Ma		
1 N 2 N 3	1	f	7.993 5 GHz 1.725 9 GHz	-70.73 dBm -3.070 dBm				Freq Of 0 Hz	fset	
4 5 6								X Axis S Lo Lir	9	Loc
1	3		May 20, 2024 2:56:39 PM					Signal T	rack	



Spectru Swept S	im Analy SA	yzer 1	•	ł					0	Frequency	· · 2
EYS L	ight .≁-	Input F Couplir Align: A	ng: DC	Input Ζ: 50 Ω 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 Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	5.01500	requency 00000 GHz	Settings
Spect	rum						Mk	r1 8.324 5 GHz	Span	0000 GHz	
cale/[	Div 10 c	iB			Ref Level 10.00	dBm		-70.481 dBm	0.07000	ept Span	
og .00			()2		Ť					o Span	
0.0									F	ull Span	
0.0									Start Fre 30.000	eq 000 MHz	
0.0								1 RMS	Stop Fre	eq 000000 GHz	
30.0	0 MHz	in a local	مسالمب	ماليونيو بالمالية ويوني المالية ويوني المالية والمالية والمالية والمالية والمالية والمالية والمالية والمالية و المالية والمالية والم	#Video BW 3.0		الجنائص المساعي المصياعي	فينه ساني الرابي التي المراجع (مي المراجع) Stop 10.000 GHz		TO TUNE	
	W 1.0 M	ИHz					Sweep	~18.7 ms (20001 pts)			
Marke	er Table								997.000	0000 MHz	
	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value	Aut Mai		
1	N N	1	f f	8.324 5 GHz 1.740 9 GHz	-70.48 dBm -3.408 dBm				Freq Off	set	
2	N	.1	1	1.740 9 GHZ	-3.406 dBm				0 Hz		1.5
4 5 6									X Axis S Loç Lin		Loc
Ð	ょ	3	2	May 20, 2024 2:58:34 PM	$\mathbb{D}$				Signal T (Span Zo		



I Spectrum       Mkr1       19.414       74       GHz         Scale/Div 10 dB       Ref Level -20.00 dBm       -87.625 dBm       10.0000000 GHz         300       Swept Span       Zero Span         400       Start Freq       10.0000000 GHz         500       Start Freq       10.00000000 GHz         500       Start Freq       10.00000000 GHz         500       Start Freq       10.00000000 GHz         700       Autro TuNE       Stop Freq         700       Man       11         100       Stop Freq       20.00000000 GHz         400       Stop Freq       20.00000000 GHz         100       Stop Freq       20.00000000 GHz <tr< th=""><th></th><th>Input: RF Coupling: DC Align: Auto</th><th>Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive</th><th>#Atten: 0 dB Preamp: Off</th><th>PNO: Fast Gate: Off IF Gain: High Sig Track: Off</th><th colspan="2">#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WW W A A A A A A</th><th>A 15.00000</th><th>equency 10000 GHz</th><th>Settings</th></tr<>		Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WW W A A A A A A		A 15.00000	equency 10000 GHz	Settings
0.0       Image: Constraint of the second of t	ale/Div 10 dl	B		Ref Level -20.00	0 dBm	Mkr1		Z 10.00000	ot Span	
00       10.0000000000 GHz         00       10.000000000 GHz         10.000000000 GHz       10.00000000 GHz         10.000000000 GHz       10.00000000 GHz         10.000000000 GHz       10.00000000 GHz         10.00000000 GHz       10.000000000 GHz         10.00000000 GHz       10.000000000 GHz         10.00000000 GHz       10.00000000 GHz <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ful</td><td>Span</td><td></td></t<>								Ful	Span	
0.0       Stop Freq         0.0       Stop Freq <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
0.0     1     1     CF Step       0.0     1     1     1       0.0     1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Contractory of the second</td> <td></td>									Contractory of the second	
0       1.000000000 GHz         10       1.00000000 GHz         10       1.0000000 GHz         10       1.00000000 GHz         10								AUT	) TUNE	
The second secon				I THE THE PROPERTY OF	and a state state of the state state	n (M. C. Constants) da y Kiel ( M.		1.000000	000 GHz	
									et	
s BW 1.0 MHz Sweep ~20.4 ms (40000 pts)				#Video BW 3.0	MHz	Sweep	Stop 20.000 GF ~20.4 ms (40000 pt	z Log	ale	Loc

### 5 M\_Conducted Spurious(Above10 G)\_Low\_BPSK\_1RB



KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Rur	wer (RMS 1 2 3 4 5 6 A WW WW W A A A A A A	Center Free 15.000000		Settings
Spectrum cale/Div 10 c	T IB		Ref Level -20.00		Mkr1	19.964 25 GHz -87.070 dBm	10.000000	Span	
							Full	Span	
0.0							Start Freq 10.000000	0000 GHz	
0.0							Stop Freq 20.000000	0000 GHz	
0.0							AUTO	TUNE	
0.0 0.0 <mark>10,01,00<sup>11</sup> 10,00</mark>			t op faltingetore	a and a state of the	Anna ann an Siù a an an An	R	CF Step 1.0000000 Auto Man	00 GHz	
10							Freq Offset		
art 10.000 G Res BW 1.0 M			#Video BW 3.0	MHz	Sweep	Stop 20.000 GHz ∼20.4 ms (40000 pts)		e	Loca
1	2	May 20, 2024 2:06:45 PM	$\mathbb{D}$				Signal Trac (Span Zoom		



Span       Span       Span         11 Spectrum       Mkr1 19.597 24 GHz       10.000000 GHz         Scale/Div 10 dB       Ref Level -20.00 dBm       -87.483 dBm         00       -87.483 dBm       Swept Span         200       -87.483 dBm       Full Span         10.0000000 GHz       Start Freq       10.0000000 GHz         00       -10       -10       -10         00       -10       -10       -10         110       -10       -10       -10		Auto F	nput Z: 50 Ω Corr CCorr Treq Ref: Int (S) IFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: P Trig: Free Ru	ower (RMS <mark>12345</mark> n A <del>WWWW</del> A A A A A A	15.0000000 GH.	Settings
Constraint     Fourspan       Constraint     Start Freq       10.00000000 GHz       Start Freq       10.00000000 GHz       Stop Freq       20.00000000 GHz       AUTO TUNE       CF Step       1.000000000 GHz       Start freq       1.000000000 GHz       Start of the	ale/Div 10 dB	•		Ref Level -20.00	0 dBm	Mkr1		2 10.0000000 GHz 1 Swept Span	
00     Image: state of the stat								Full Span	
0.0       Stop Freq         0.0       AUTO TUNE         0.0       AUTO TUNE         0.0       CF Step         1.0       Stop Freq         0.0       AUTO TUNE         0.0       Freq Offset         0       Hz									z
0.0     Image: Constraint of the second									z
0.0       1.000000000 GHz         1.000000000 GHz         1.000000000 GHz         1.00000000 GHz         1.000000000 GHz         <								AUTO TUNE	
10 Freq Offset 0 Hz	0.0	B		an and an in the second by	landistaria na rayaniania	a a da a da far a da a da a da a da a da		1.00000000 GHz	
nt 10.000 GHz #Video BW 3.0 MHz Stop 20.000 GHz es BW 1.0 MHz Sweep ~20.4 ms (40000 pts) Lin				#Video BW 3.0	) MHz	Sweep			Loo



KEYSIGHT ≀L →→→ ⊠	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	13.00000000 GH	Settings
Spectrum cale/Div 10 d	T B		Ref Level -20.00	) dBm	Mkr1	19.033 98 GHz -87.009 dBm	10.000000000112	
							Full Span	
i0.0 i0.0							Start Freq 10.000000000 GH	Iz
							Stop Freq 20.000000000 GH	IZ
							AUTO TUNE	
0.0	and stars ( the subject states ) and	likaraharaké, dia aké alik	RAR (Play, 1 magan marks) à facto		under des ses ses se	RMS	CF Step 1.000000000 GHz Auto	
100	the still sittle still and as	and a set of the set of					Man Freq Offset	-
							0 Hz	
art 10.000 G Res BW 1.0 M			#Video BW 3.0	MHz	Sweep	Stop 20.000 GHz ~20.4 ms (40000 pts)		Loca
5	202	May 20, 2024 2:10:42 PM					Signal Track (Span Zoom)	



wept SA		+ Input Ζ: 50 Ω	#Atten: 0 dB	PNO: Fast	#Avg Type: Power (R			Frequency	
	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Preamp: Off	Gate: Off IF Gain: High Sig Track: Off	Trig: Free Run	A WW WW W A A A A A A A	Center Fr 15.00000	equency 00000 GHz	Settings
Spectrum ale/Div 10 c	т		Ref Level -20.00			513 49 GHz 7.062 dBm	10.00000	000 GHz ot Span	
<b>g</b>							Zero	Span	
								l Span	
0.0 0.0							Start Free 10.00000	1 )0000 GHz	
							Stop Fred 20.00000	00000 GHz	
0.0								O TUNE	
).0		and the second second		attal tar at 191. 1		11S		0000 GHz	
00				the first sector of the sector	and the startight of the starting of the start	in law of the Case of the Second Second Second	Auto Man		
							Freq Offs 0 Hz	et	
art 10.000 G es BW 1.0 M			#Video BW 3.0	MHz		top 20.000 GHz ms (40000 pts)		ale	Loca
5		May 20, 2024 2:13:59 PM	$\square$				Signal Tra		



EYSIGHT	Input RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type. Po Trig: Free Run	wer (RMS <mark>123456</mark> A WW WW W A A A A A A	Center Freque		settings
Spectrum cale/Div 10 c	T IB		Ref Level -20.00		Mkr1	19.522 49 GHz -87.711 dBm	10.0000000	pan	
							Full Sp	an	
0.0							Start Freq 10.00000000	0 GHz	
							Stop Freq 20.00000000	0 GHz	
0.0							AUTO TU	JNE	
0.0 0.0	and a state with the second second	en light factory place they	The age of the later of the later of the later	( fan wê je bier die anter ster en tek	nin in a station of a state of		CF Step 1.000000000	GHz	
10		and the state of the					Man Freq Offset 0 Hz		
art 10.000 G Res BW 1.0 I			#Video BW 3.0	MHz	Sweep	Stop 20.000 GHz ~20.4 ms (40000 pts)	X Axis Scale		Loca
っ	C []	May 20, 2024 2:15:50 PM					Signal Track		



wept SA		+ Input Ζ: 50 Ω	#Atten: 0 dB	PNO: Fast	#Avg Type: Power	r (RMS 1 2 3 4 5 6	Center Free	Frequency	Ľ
L ->	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Preamp: Off	Gate: Off IF Gain: High Sig Track: Off	Trig: Free Run		15.000000		Settings
Spectrum	*					9.453 74 GHz	Span 10.000000	0 GHz	
ale/Div 10 c	iB		Ref Level -20.00	dBm		-87.322 dBm	Swept Zero S		
							Full	Span	
D.0 D.0							Start Freq 10.000000	000 GHz	
0.0							Stop Freq 20.000000	000 GHz	
							AUTO	TUNE	
).0		المراجعة المراجعة المراجعة	adi. madalaradan da	ter far tiller og fo bine als - o	en la superior and a superior and a superior and	1.MS	CF Step 1.0000000	00 GHz	
00		in to all the first of the second			And a statistic management	a se a sub atthoms dit a sa att	Auto Man		
							Freq Offset 0 Hz		
art 10.000 G tes BW 1.0 I			#Video BW 3.0	MHz	Sweep ~20	Stop 20.000 GHz 0.4 ms (40000 pts)	X Axis Scal Log Lin	e	Loca
っ	C 1	May 20, 2024 2:17:55 PM	$\square$				Signal Trac		



wept SA (EYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW</del> A A A A A A	15.000000000	Setunds
Spectrum cale/Div 10 c	т iB		Ref Level -20.00		Mkr1	19.269 48 GHz -87.290 dBm	Span 10.0000000 GH	
							Full Span	
0.0							Start Freq 10.000000000 0	GHz
							Stop Freq 20.000000000	ЭHz
0.0							AUTO TUNI	• · · · ·
0.0 0.0		a balla (teopering a diseria) and	ant pristinget pristinger	Hand Hat see . Formal come of Angels Comes	ANILL AND A CRAMMER OF	1 RMS	CF Step 1.000000000 Gł Auto Man	Hz
10							Freq Offset 0 Hz	
art 10.000 G les BW 1.0 I			#Video BW 3.0	MHz	Sweep	Stop 20.000 GHz ~20.4 ms (40000 pts)		Loca
5	C [] ?	May 20, 2024 2:21:06 PM	$\square$				Signal Track (Span Zoom)	



wept SA		+ Input Ζ: 50 Ω	#Atten: 0 dB	PNO: Fast	#Avg Type: Power (RMS	122456		Frequency	
	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Preamp: Off	Gate: Off IF Gain: High Sig Track: Off	Trig: Free Run	A W W W W A A A A A A A	Center Fr 15.0000	equency 00000 GHz	Settings
Spectrum ale/Div 10 c	iB		Ref Level -20.00		Mkr1 19.45 -87			ot Span	
).0								Span II Span	
0.0							Start Free 10.0000	1 00000 GHz	
							Stop Fred 20.0000	l 00000 GHz	
0.0 0.0							AUT CF Step	O TUNE	
			and the second state		ע פון איז איז אין איז אין איז אין איז איז אין איז	HI SHITE PRODUCT		0000 GHz	
10							Freq Offs 0 Hz	et	
art 10.000 G tes BW 1.0 I			#Video BW 3.0	MHz	Sto Sweep ~20.4 m	p 20.000 GHz s (40000 pts)	X Axis Sc Loa	ale	Loca
5	C 1	May 20, 2024 2:22:57 PM	$\square$				Signal Tra		



Spectrum Anal Swept SA		+					Freq	uency 🔻 🛃
EYSIGHT L +> 1	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Pow Trig: Free Run	er (RMS <mark>1</mark> 23456 A <del>WW WW W</del> A A A A A A A	Center Frequence 15.000000000 G	Setunds
Spectrum cale/Div 10 c	<b>v</b> iB		Ref Level -20.00		Mkr1	19.998 75 GHz -87.566 dBm	Span 10.0000000 GH; Swept Span Zero Span	
							Full Span	
0.0							Start Freq 10.000000000 G	SHz
).0 ).0							Stop Freq 20.000000000 G	9Hz
0.0								•
an and the		untitut water from the offic	Marine Robert State	ant click and a state of the state	HILL BERNELLING	R.L.	CF Step 1.000000000 GF Auto Man	Hz
10							Freq Offset 0 Hz	
art 10.000 G tes BW 1.0 I			#Video BW 3.0	MHz	Sweep ~	Stop 20.000 GHz 20.4 ms (40000 pts)	X Axis Scale Log Lin	Loca
1		May 20, 2024 2:25:03 PM	$\square$				Signal Track (Span Zoom)	



I Spectrum       Mikr1 19.984 25 GHz         Scale/Div 10 dB       Ref Level -20.00 dBm       -87.024 dBm         10.0000000 GHz       Swept Span         200       Start Freq         10.0000000 GHz       Start Freq         10.0000000 GHz       Start Freq         200       Start Freq         2000000000 GHz       Start Freq         20.000000000 GHz       Start Freq         20.000000000 GHz       Start Freq         20.00000000 GHz       Start Freq	KEYSIGHT Input: R Coupling Align: Ai	DC Corr CCorr	Preamp: Off (S)	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Rur	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	15.0000000 GHz	Settings
Image: Constraint of the second of the se	- Spectrum cale/Div 10 dB		Ref Level -20.00	dBm	Mkr1		10.0000000 GHz	
00     10.000000000 GHz       00     10.000000000 GHz       00     10.000000000 GHz       00     10.00000000 GHz       10     10.00000000 GHz  <							Full Span	
0       Stop Freq         10       Stop Freq         10       Stop Freq         10       Stop Freq         11       Stop Freq         12       Stop Freq         13       Stop Freq         14       Stop Freq         15       Stop Freq         16       Stop Freq         17       Stop Freq         18       Stop Freq         19       Stop Freq         10       Stop Freq         10       Stop Freq         11       Stop Freq         12       Auto         13       Stop Freq								
0.0     Ref     CF Step       0.0     Ref     CF Step       0.0     Ref     Ref								
0.0     Rest     1.000000000 GHz       0.0     Auto       0.0     Auto       10     Auto	0.0						AUTO TUNE	
10 Freq Offset 0 Hz			make on a book that is installed for a still a		under all and all the states and	Pirret Petro State Albert	1.000000000 GHz	
nt 10.000 GHz #Video BW 3.0 MHz Stop 20.000 GHz es BW 1.0 MHz Sweep ~20.4 ms (40000 pts) Lin			#Video BW 3.0	MHz	Sweep		LVg	Loc



1 Spectrum       Mkr1 19.512 74 GHz       Span         10 Social/Div 10 dB       Ref Level -20.00 dBm       -86.927 dBm         300       -86.927 dBm       Swept Span         300       -99       -99       -99         400       -99       -99       -99         500       -99       -99       -99         600       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99         700       -99       -99       -99       -99 <th>KEYSIGHT RL +→- ⊠</th> <th>Input: RF Coupling: DC Align: Auto</th> <th>Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive</th> <th>#Atten: 0 dB Preamp: Off</th> <th>PNO: Fast Gate: Off IF Gain: High Sig Track: Off</th> <th>#Avg Type: Po Trig: Free Rur</th> <th>ower (RMS<mark>123456</mark> A <del>WW WW W</del> A A A A A A</th> <th>15.0000000 GH</th> <th>Settings</th>	KEYSIGHT RL +→- ⊠	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Rur	ower (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	15.0000000 GH	Settings
00       Start Freq         01       Start Freq         02       Start Freq         03       Start Freq         04       Start Freq         05       Start Freq         06       Start Freq         07       Start Freq         18       Start Freq         19       Start Freq         100       Start Freq         101       Start Freq         102       Start Freq         103       Start Freq         104       Start Freq         105       Start Freq         106       Start Freq         107       Start Freq         108       Start Freq         109       Start Freq         110       Start Freq         111       Start Freq	cale/Div 10 d	B		Ref Level -20.00	) dBm	Mkr1		10.0000000 GHz	
0.0     10.000000000 GHz       0.0     10.00000000 GHz       0.0     10.000000000 GHz       0.0     10.000000000 GHz       0.0     10.000000000 GHz       0.0     10.000000000 GHz       0.0     10.00000000 GHz       0.0     10.00000000 GHz       0.0     10.00000000 GHz       0.00       0.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Full Span</td><td></td></t<>								Full Span	
Stop Freq 20.00000000 GHz AUTO TUNE CF Step 1.000000000 GHz Auto Man Freq Offset 0 Hz									
0.0     Image: Constraint of the second									
0.0 1.000000000 GHz 1.000000000 GHz 1.00000000 GHz 1.0000000 GHz 1.00000000 GHz 1.000000000 GHz 1.00000000 GHz 1.000000000 GHz 1.00000000 GHz 1.000000000 GHz 1.000000000 GHz 1.000000000 GHz 1.000000000 GHz 1.000000000 GHz 1.000000000 GHz 1.000000000 GHz 1.000000000 GHz 1.000000000 GH	0.0							AUTO TUNE	
110 Freq Offset 0 Hz	0.0			an a	and calls a firm and particular a	ing a second		1.00000000 GHz	
tart 10.000 GHz #Video BW 3.0 MHz Stop 20.000 GHz Res BW 1.0 MHz Sweep ~20.4 ms (40000 pts)				#Video BW 3.0	MHz	Sweep		LUY	Loc



wept SA (EYSIGHT		H Input Z: 50 Ω Corr CCorr	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off	#Avg Type: Po Trig: Free Rur	wer (RMS123456	Center Frequency	cy Settings
L +>-	Align: Auto	Freq Ref: Int (S) NFE: Adaptive		IF Gain: High Sig Track: Off		A <del>WW WW W</del> A A A A A A	13.00000000 GHz	
Spectrum	÷				Mkr1	18.491 71 GHz	10.00000000112	
ale/Div 10 c	iB		Ref Level -20.00	) dBm		-87.478 dBm	Swept Span Zero Span	
							Full Span	
0.0							Start Freq 10.00000000 GHz	
							Stop Freq 20.000000000 GHz	
							AUTO TUNE	
0.0			II. a. Marsher a			RMS	CF Step 1.000000000 GHz	
00		1946 Alberton, Alberton Ma		Planet and a state of the second second		and the second like second	Auto Man	
							Freq Offset 0 Hz	
art 10.000 G tes BW 1.0 I			#Video BW 3.0	MHz	Sweep	Stop 20.000 GHz ~20.4 ms (40000 pts)		Loca
5	C 1	May 20, 2024 2:32:09 PM	ÐA				Signal Track (Span Zoom)	



pectrum Anal wept SA		+					🗘 Fre	equency 🔻 🛃
EYSIGHT L +> 1	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (R Trig: Free Run	MS <mark>123456</mark> A <del>WWWWW</del> AAAAAA	Center Frequer 15.000000000	
Spectrum ale/Div 10 c	iB		Ref Level -20.00			162 98 GHz 37.297 dBm	Span 10.0000000 G Swept Spa Zero Span	an
							Full Spar	
D.0 D.0							Start Freq 10.000000000	GHz
							Stop Freq 20.000000000	GHz
								NE
the state of the				ana di singgi sang ang ang ang ang ang ang ang ang ang	i all blan far an	RMS Handloughter	CF Step 1.000000000 0 Auto Man	GHz
10							Freq Offset 0 Hz	
art 10.000 G tes BW 1.0 I			#Video BW 3.0	MHz		top 20.000 GHz ms (40000 pts)		Loca
1	C []	May 20, 2024 2:35:25 PM	$\square$				Signal Track (Span Zoom)	



wept SA		+ Input Ζ: 50 Ω	#Atten: 0 dB	PNO: Fast	#Ava Type: Po	wer (RMS 1 2 3 4 5 6		Frequency	/ • 🛃
	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Preamp: Off	Gate: Off IF Gain: High Sig Track: Off	Trig: Free Run		Provini Provini Sal	requency 00000 GHz	Settings
Spectrum					Mkr1	14.223 61 GHz	10.0000	000 GHz	
ale/Div 10 c			Ref Level -20.00	dBm		-87.594 dBm	300	pt Span Span	
							FL	ıll Span	
0.0							Start Fre 10.0000	q 00000 GHz	
							Stop Fre 20.0000	q 00000 GHz	
0.0							AUT	TO TUNE	
0.0				trebhanithireadh hans a theor		RMS		0000 GHz	
100				And a start of the start of the start	And a second	and the same little will be a little	Auto Man		
110							Freq Offs 0 Hz	set	
art 10.000 G Res BW 1.0 M			#Video BW 3.0	MHz	Sweep -	Stop 20.000 GHz ~20.4 ms (40000 pts)			Loca
っ	C 1	May 20, 2024 2:37:18 PM	$\square$				Signal Tr		



pectrum Anal wept SA		+						Frequency	/ 1
EYSIGHT ⊥ +→ 1	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (RMS Trig: Free Run	123456 A <del>WWWWW</del> AAAAAA	Center Fre 15.00000	equency 0000 GHz	Settings
Spectrum ale/Div 10 c	IB		Ref Level -20.00		Mkr1 18.43 -87		10.00000	t Span	
							Full	Span	
0.0 0.0							Start Freq 10.00000	0000 GHz	
							Stop Freq 20.00000	0000 GHz	
							AUTO	TUNE	
0.0 0.0	وموريقور بتلوريطوريقه	المرافع الفرار المردية المردية المردية	म्बार्ड म्बार्ड मेहर करने र स्वय प्रस्त	ar f <sup>a</sup> ben <sup>a b</sup> retter og stol a stor å retter	1	RMS	CF Step 1.000000 Auto	000 GHz	
00	An address of the second s	alarahira di salar di salar di salar					Man Freq Offse	t	
							0 Hz		
art 10.000 G es BW 1.0 I			#Video BW 3.0	MHz	Sto Sweep ~20.4 m	o 20.000 GHz s (40000 pts)		le	Loca
5	C []	May 20, 2024 2:39:25 PM					Signal Tra		



EYSIGHT	Input RF Coupling DC Alian Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High	#Avg Type: Power ( Trig: Free Run	RMS <mark>123456</mark> Awwwww	Center Frequ		Settings
<i>a</i>	Aigit. Auto	NFE: Adaptive		Sig Track: Off		<b>A A A A A</b>	The second second second second		
Spectrum	*				Mkr1 19	.991 75 GHz	Span 10.0000000	GHz	
cale/Div 10 d	B		Ref Level -20.00	) dBm		87.082 dBm	Swept S Zero Spa		
							Full Sp	an	
0.0							Start Freq 10.00000000	0 GHz	
							Stop Freq 20.00000000	10 GHz	
							AUTO T	JNE	
0.0	at the set of the set	. din side izan, 15 tet alter a		u seidemist e bran die reulie e	المنافق والمنافق والمنافع المنافع المنا	R.I.	CF Step 1.000000000	GHz	
00		and a state of the			and the second secon	and the lot of the local distance of the	Auto Man		
110							Freq Offset 0 Hz		
art 10.000 G Res BW 1.0 M			#Video BW 3.0	MHz		Stop 20.000 GHz 4 ms (40000 pts)			Loca
15	CIT	May 20, 2024 2:42:36 PM	$\square$				Signal Track		



EYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Rui	n A	23456 wwwww AAAAA	15.0000	requency 100000 GHz	Settings
Spectrum cale/Div 10 c	iB		Ref Level -20.00		Mkr1	19.918 -87.4	75 GHz 78 dBm	Swe	000 GHz ept Span o Span	
								FI	ıll Span	
0.0								Start Fre 10.0000	q 100000 GHz	
								Stop Fre 20.0000	9 100000 GHz	
								AU	TO TUNE	
the other stilles		Desidences and a second state		1987 (***1914) - 11 838 - 12 94 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-		R. Line (Receive	CF Step 1.00000 Auto Mar		
10								Freq Off 0 Hz	set	
art 10.000 G es BW 1.0 I			#Video BW 3.0	MHz	Sweep	Stop 2 ~20.4 ms(	0.000 GHz 40000 pts)	X Axis S Log Lin		Loca
15	C 1	May 20, 2024 2:44:30 PM	$\square$					Signal Ti (Span Zo		



wept SA		+ Input Ζ: 50 Ω	#Atten: 0 dB	PNO: Fast	#Ava Type Po	wer (RMS 1 2 3 4 5 6	\$	Frequency	
	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Preamp: Off	Gate: Off IF Gain: High Sig Track: Off	Trig: Free Run		Center Fr 15.00000	equency )0000 GHz	Settings
Spectrum			Beff avel 20.00		Mkr1	19.919 25 GHz -87.444 dBm	10.00000		
cale/Div 10 c	iB		Ref Level -20.00	asm		-07.444 UDIII		ot Span Span	
							Ful	l Span	
i0.0 50.0							Start Free 10.00000	1 )0000 GHz	
							Stop Free 20.0000	00000 GHz	
							AUT	O TUNE	
10.0	under ander ander ander	المراجعة والمراجعة والمراجعة	an and the second states of	VILLAND AND AND AND AND AND AND AND AND AND	and the state of the second	R R R	CF Step 1.000000 Auto	0000 GHz	
100		and the side of the second		and the other states of the state of the sta			Man Man		
							Freq Offs 0 Hz		_
tart 10.000 G Res BW 1.0 M			#Video BW 3.0	MHz	Sweep -	Stop 20.000 GHz ~20.4 ms (40000 pts)	X Axis Sc Log Lin	ale	Loca
1	C []	May 20, 2024 2:46:39 PM					Signal Tra		



EYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> AWWWWW AAAAAA	15.00000000	Setunds
Spectrum cale/Div 10 c	iB		Ref Level -20.00	) dBm	Mkr1	19.488 74 GHz -86.854 dBm	10.0000000 01	in
							Full Spar	
0.0							Start Freq 10.000000000	GHz
							Stop Freq 20.000000000	GHz
0.0								٩E
0.0 0.0	and state the state of the	D TATION NO. 17 HORE AD 11-1	प्रम (कृष्टि क्रास्त्रिक्रकी क्रास्	ערייאנע איז	And My alk algorithm of the	1.AS	CF Step 1.000000000 C	SHz
00	مين وي من المحمد الي و الأن من الله . الم	and a set of the set of		and a start of the second s			Man Freq Offset	
							0 Hz X Axis Scale	Loca
art 10.000 G les BW 1.0 I			#Video BW 3.0	MHz	Sweep	Stop 20.000 GHz ~20.4 ms (40000 pts)	Log	Loca
5	C 1 2	May 20, 2024 2:49:50 PM					Signal Track (Span Zoom)	



KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Rur	ower (RMS <mark>123456</mark> A <del>WW WW</del> A A A A A A	13.0000000 GH	Settings
Spectrum cale/Div 10 d	B		Ref Level -20.00	) dBm	Mkr1	18.959 72 GHz -86.421 dBm	10.000000000112	
							Full Span	
0.0							Start Freq 10.000000000 GH	z
							Stop Freq 20.000000000 GH	IZ
0.0 0.0 0.0				and any for your speech being a		T RMS	AUTO TUNE CF Step 1.000000000 GHz Auto Man	
10							Freq Offset 0 Hz	
art 10.000 G tes BW 1.0 M			#Video BW 3.0	MHz	Sweep	Stop 20.000 GH ~20.4 ms (40000 pts	X Axis Scale	Loca
15		May 20, 2024 2:51:44 PM					Signal Track (Span Zoom)	



wept SA	Input: RF	+ Input Ζ: 50 Ω	#Atten: 0 dB	PNO: Fast	#Avg Type: Power	(RMS123456	Center Frequence	quency v
L ↔→	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Preamp: Off	Gate: Off IF Gain: High Sig Track: Off	Trig: Free Run	A <del>WW WW W</del>	15.000000000	
Spectrum	*					3.658 72 GHz	Span 10.0000000 GH	z
cale/Div 10 c	iB		Ref Level -20.00	) dBm		-87.033 dBm	Swept Spar Zero Span	<b>1</b> )
							Full Span	
0.0							Start Freq 10.000000000	GHz
0.0							Stop Freq 20.000000000	GHz
0.0							AUTO TUN	E
0.0			n vəlic məllifər bəsəlmə səlində bir bəs	s dition with the first first first state	an e, sand ant likite maile bir bir	A RMS	CF Step 1.000000000 G	Hz
100							Auto Man	
							Freq Offset 0 Hz	
art 10.000 G Res BW 1.0 M			#Video BW 3.0	MHz	Sweep ~20	Stop 20.000 GHz .4 ms (40000 pts)	X Axis Scale Log Lin	Loca
15	C 1	May 20, 2024 2:53:52 PM	$\square$				Signal Track (Span Zoom)	



wept SA (EYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A	Center Frequencies		Settings
Spectrum cale/Div 10 c	т iB		Ref Level -20.00	a por de la construction de la	Mkr1	19.284 73 GHz -87.508 dBm		Span	
							Full S	pan	
0.0 0.0							Start Freq 10.0000000	00 GHz	
0.0							Stop Freq 20.0000000	00 GHz	
							AUTO	UNE	
		alian da milan anta da sete			and the second secon	1 RMS	CF Step 1.00000000 Auto Man	0 GHz	
10							Freq Offset 0 Hz		
art 10.000 G es BW 1.0 I			#Video BW 3.0	MHz	Sweep -	Stop 20.000 GHz ~20.4 ms (40000 pts)		•	Loc
1		May 20, 2024 2:57:04 PM	$\mathbb{D}$				Signal Track (Span Zoom)		



EYSIGHT	Input RF Coupling DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Rur	wer (RMS <mark>123456</mark> A WW WW W A A A A A A	13.0000000 GH	ency v 🕃 z Settings
Spectrum cale/Div 10 d	B		Ref Level -20.00	) dBm	Mkr1	18.483 21 GHz -86.497 dBm	10.0000000 0112	
							Full Span	
0.0 0.0							Start Freq 10.000000000 GH;	z
0.0							Stop Freq 20.000000000 GH	z
							AUTO TUNE	
).0 ).0	and the state of the second second	ubhatatha ind, dauk a ku a <b>id</b> h	क्या विद्याले क्या विद्यूली हत्या	and the mapping sold in party and		RMS	CF Step 1.000000000 GHz	
00	and the state of the	and and the same same same same same same same sam			a distanti a di se di		Man	
							Freq Offset 0 Hz	
art 10.000 G tes BW 1.0 M			#Video BW 3.0	MHz	Sweep	Stop 20.000 GHz ∼20.4 ms (40000 pts		Loca
5		May 20, 2024 2:58:58 PM	ÐA				Signal Track (Span Zoom)	



KEYSIGHT 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 (F Trig: Free Run	RMS <mark>123456</mark> A <del>WWWWW</del> AAAAAA	Center Frequency 1.710000000 GHz	Setting
Spectrum v cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.14 d			10 000 GHz 27.887 dBm	Span 4.00000000 MHz Swept Span Zero Span	
7.1			$\cap$			Full Span	
2.86						Start Freq 1.708000000 GHz	
12.9			$/   \rangle$		DL1 -13.00 dBm	Stop Freq 1.712000000 GHz	
22.9		•í	$\rightarrow$			AUTO TUNE	
02.9						CF Step 400.000 kHz	
52.9	- and an an or a star of a				at an	Auto Man	
52.9						Freq Offset 0 Hz	
enter 1.710000 GHz Res BW 30 kHz		#Video BW 1.0	MHz		Span 4.000 MHz 1.01 s (1001 pts)	X Axis Scale Log Lin	Lo
1501	? May 20, 2024 2:02:04 PM					Signal Track (Span Zoom)	

## 5 M\_Band Edge\_Low\_BPSK\_1RB



KEYSIGHT RL +++ 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 (RM Trig: Free Run	AS <mark>123456</mark> AWWWWW AAAAAA	Center Frequency 1.710000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.14 d		Mkr1 1.71 -23	0 000 GHz 3.596 dBm	4.00000000 MHz Swept Span Zero Span	
7.14						Full Span Start Freq	
2.86					DL1 -13.00 dBm	1.708000000 GHz Stop Freq 1.712000000 GHz	
22.9		1				AUTO TUNE	
42.9						400.000 kHz Auto Man	
52.9						Freq Offset 0 Hz	
enter 1.710000 GHz Res BW 51 kHz		#Video BW 160	kHz		pan 4.000 MHz 01 s (1001 pts)		Loc
- n C	? May 20, 2024 2:01:33 PM	$\Theta \triangle$				Signal Track (Span Zoom)	1

## 5 M\_Band Edge\_Low\_BPSK\_FullRB



Spectrum Analy Channel Power	/zer 1	+					\$	Frequency	• 🔛
KEYSIGHT RL ++-	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 20 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.70850 Avg Hold: 300/300 Radio Std: None	00000 GHz	provide a second second second	requency 0000 GHz	Settings
1 Graph	*		Ref LvI Offset 27				4.0000 I	MHz	
Scale/Div 10.0 Log 20.0 10.0 .000 .000 .000 .000 .000 .000			Ref Value 30.00 (				CF Step 400.000 Auto Mar Freq Offs 0 Hz	2 1	
Center 1.70850 Res BW 39.000			Video BW 390.0	0 kHz*	Sweep 3.2	Span 4 MHz 0 ms (1001 pts)			
2 Metrics	v		a ann an l						
Total Channe Total Power	el Power Spectral Density	-24.64 dBm / 1.0 y -84.64 d							Local
1 n		May 20, 2024 2:01:42 PM	$\odot$						

## 5 M\_Extended Band Edge\_Low\_BPSK\_FullRB



EYSIGHT Input: RF Coupling: DC Align: Auto	Input Ζ: 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	ver (RMS <mark>123456</mark> A WWWWW A A A A A A A	Center Frequency 1.780000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.14 c		Mkr1	1.780 000 GHz -30.518 dBm	4.00000000 MHz Swept Span Zero Span	
7.1						Full Span	
.14						Start Freq 1.778000000 GHz	
2.9	/				DL1 -13.00 dBm	Stop Freq 1.782000000 GHz	
2.9		1			RMS	AUTO TUNE	]
2.9			- Anno and a second		-	CF Step 400.000 kHz Auto	
2.9						Man Freq Offset	
2.9 enter 1.780000 GHz Res BW 30 kHz		#Video BW 1.0	MHz	#51400	Span 4.000 MHz	0 Hz X Axis Scale	Loc
	? May 20, 2024 2:07:51 PM	$\square$		#Swee	ep ~1.01 s (1001 pts)	Signal Track	

# 5 M\_Band Edge\_High\_BPSK\_1RB



KEYSIGHT     Input: RF       Coupling: DC       Align: Auto	Input Ζ: 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: Po Trig: Free Run	wer (RMS <mark>123456</mark> A WW WW W A A A A A A	Center Frequency 1.780000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.14 d		Mkr1	1.780 000 GHz -23.259 dBm	4.0000000 MHz Swept Span Zero Span	
.14	William and the second second second					Full Span Start Freq 1.778000000 GHz	
2.86		1			DL1 -13.00 dBm	Stop Freq 1.782000000 GHz	
22.9					RMS	AUTO TUNE CF Step 400.000 kHz	
42.9 52.9						Auto Man Freg Offset	
62.9 enter 1.780000 GHz Res BW 51 kHz		#Video BW 160	kHz	#Swe	Span 4.000 MHz ep ~1.01 s (1001 pts)	0 Hz X Axis Scale Log	Loc
1 n C .	May 20, 2024 2:07:20 PM					Signal Track (Span Zoom)	

## 5 M\_Band Edge\_High\_BPSK\_FullRB



Spectrum Analy Channel Power	/zer 1	÷					\$	Frequency	( * 😤
KEYSIGHT RL ++-	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 20 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.7815000 Avg Hold: 300/300 Radio Std: None	000 GHz	president and a second second second	requency 0000 GHz	Settings
1 Graph	*		Ref Lvi Offset 27				4.0000 1	MHz	
Scale/Div 10.0	dB		Ref Value 30.00 d	dBm			CF Step 400.000 Auto Mar	>	
0.00 -10.0 -20.0 -30.0	hore						Freq Offs 0 Hz	set	
-40.0 -50.0 -60.0						RMS AVG			
Center 1.7815 Res BW 39.00			Video BW 390.00	0 kHz*	Sweep 3.20	Span 4 MHz ms (1001 pts)			
2 Metrics	•								
Total Chann	el Power	-29.09 dBm / 1.00	) MHz						
Total Power	Spectral Density	-89.09 dE	3m/Hz						Local
<u>+</u> า	C 2 2	May 20, 2024 2:07:29 PM	$\square$						

## 5 M\_Extended Band Edge\_High\_BPSK\_FullRB



KEYSIGHT Input: RF RL +++ Coupling: DC Align: Auto	Input Ζ: 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: Powe Trig: Free Run	r (RMS <mark>1</mark> 23456 A <del>WWWWW</del> AAAAAA	Center Frequency 1.710000000 GHz Span	Setting
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.14 d		Mkr1 1	.710 000 GHz -37.616 dBm	4.00000000 MHz Swept Span Zero Span	
7.1			M			Full Span	
2.86						Start Freq 1.708000000 GHz	
12.9					DL1 -13.00 dBm	Stop Freq 1.712000000 GHz	
22.9						AUTO TUNE	
42.9						CF Step 400.000 kHz	
52.9	and agent and a first and a start of the sta				RMS	Auto Man	
62.9						Freq Offset 0 Hz	
enter 1.710000 GHz Res BW 30 kHz		#Video BW 1.0	MHz	#Sweep	Span 4.000 MHz ~1.01 s (1001 pts)	X Axis Scale Log Lin	Lo
- - - - - - - - - - - - - -	? May 20, 2024 2:09:56 PM	$\square$				Signal Track (Span Zoom)	

## 10 M\_Band Edge\_Low\_BPSK\_1RB



KEYSIGHT Input: RF Coupling: DC: Align: Auto	Input Ζ: 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 (RM Trig: Free Run	IS <mark>1</mark> 23456 AWWWWW AAAAAA	Center Frequency 1.710000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.14 c		Mkr1 1.71	0 000 GHz 5.116 dBm	4.00000000 MHz Swept Span Zero Span	
.14					RMS	Full Span Start Freq 1.708000000 GHz	
2.9		1			DL1 -13.00 dBm	Stop Freq 1.712000000 GHz	
2.9						AUTO TUNE CF Step 400.000 kHz	
52.9 52.9						Auto Man Freq Offset 0 Hz	
enter 1.710000 GHz Res BW 100 kHz		#Video BW 300	kHz		oan 4.000 MHz 1 s (1001 pts)		Loc
- n c	May 20, 2024 2:09:25 PM	$\square$				Signal Track (Span Zoom)	

## 10 M\_Band Edge\_Low\_BPSK\_FullRB



Spectrum Analy Channel Power	vzer 1	+					0	Frequency	/ - * 絵
KEYSIGHT RL ++-	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S) NFE: Adaptive	Atten: 20 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.70850 Avg Hold: 300/300 Radio Std: None	0000 GHz	president and a state of the st	Frequency 00000 GHz	Settings
1 Graph	*		Ref LvI Offset 27				4.0000	MHz	,
Scale/Div 10.0 Log 20.0 10.0 -10.0 -20.0 -20.0 -30.0 -40.0			Ref Value 30.00 (			RMS AVG	CF Step 400.000 Aut Ma Freq Off 0 Hz	0 kHz o n	
-50.0 -60.0 Center 1.70856 Res BW 39.000 2 Metrics			Video BW 390.0	0 kHz*	Sweep 3.20	Span 4 MHz 0 ms (1001 pts)			
Total Chann	el Power Spectral Density				.:: N				Local

## 10 M\_Extended Band Edge\_Low\_BPSK\_FullRB



CEYSIGHT 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		001	nter Frequency 780000000 GHz	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.14 d		Mkr1 1.780 00 -38.28		311 00000000 MHz Swept Span Zero Span	
7.1	1	~				Full Span	
2.86						rt Freq 778000000 GHz	
2.9				DL1	1 12 00 dBm	p Freq 782000000 GHz	
22.9						AUTO TUNE	
12.9		1			100000	Step 0.000 kHz	
52.9	anad .			margan and a main of the second second	RMS	Auto Man	
52.9					Fre 0 H	q Offset Iz	
enter 1.780000 GHz Res BW 30 kHz		#Video BW 1.0	MHz	Span 4 #Sweep ~1.01 s (	1.000 MHz	xis Scale Log Lin	Loc
1501	? May 20, 2024 2:15:05 PM	$\square$				nal Track an Zoom)	1

# 10 M\_Band Edge\_High\_BPSK\_1RB



KEYSIGHT Input: RF RL +++ Coupling: DC Align: Auto	Input Ζ: 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: Powe Trig: Free Run	er (RMS <mark>1</mark> 23456 A <del>WW WW W</del> A A A A A A	Center Frequency 1.780000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27 Ref Level 27.14 d		Mkr1 1	I.780 000 GHz -33.924 dBm	4.0000000 MHz Swept Span Zero Span	
.14						Full Span Start Freq 1.778000000 GHz	
2.9					DL1 -13.00 dBm	Stop Freq 1.782000000 GHz	
22.9 32.9 		1			RMS	AUTO TUNE CF Step 400.000 kHz Auto	
52.9						Man Freq Offset 0 Hz	
enter 1.780000 GHz Res BW 100 kHz		#Video BW 300	kHz	#Sweep	Span 4.000 MHz o ~1.01 s (1001 pts)		Loc
- n C	May 20, 2024 2:14:33 PM	$\square$				Signal Track (Span Zoom)	1

## 10 M\_Band Edge\_High\_BPSK\_FullRB



Spectrum Analy Channel Power	yzer 1	+					\$	Frequenc	y - <b>*</b> 尝
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) NFE: Adaptive	Atten: 20 dB Preamp: Off #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.7815000 Avg Hold: 300/300 Radio Std: None	000 GHz	1.78150	requency 10000 GHz	Settings
Graph	T		Ref LvI Offset 27				Span 4.0000	MHz	,
cale/Div 10.0			Ref Value 30.00				CF Step 400.000	kHz	]
0.0							Auto Mar		
10.0							Freq Off: 0 Hz	set	
0.0	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				RMS AVG			
50.0									
enter 1.7815 es BW 39.00			Video BW 390.0	0 kHz*	Sweep 3.20	Span 4 MHz ms (1001 pts)			
Metrics									
Total Chann	el Power	-32.36 dBm / 1.0	0 MHz						
Total Power	Spectral Density	y -92.36 di	Bm/Hz						Loca
15		May 20, 2024 2:14:43 PM	$\odot$						

## 10 M\_Extended Band Edge\_High\_BPSK\_FullRB



L + Auto	Input Ζ: 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 (F Trig: Free Run	RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A A	Center Frequency 1.710000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 27. Ref Level 27.14 d			10 000 GHz 39.626 dBm	4.00000000 MHz Swept Span Zero Span	
14			$\square$			Full Span Start Freq	
2.9					DL1 -13.00 dBm	1.708000000 GHz Stop Freq 1.712000000 GHz	
2.9						AUTO TUNE	
2.9					RMS	400.000 kHz Auto Man	
2.9						Freq Offset 0 Hz	
enter 1.710000 GHz tes BW 30 kHz		#Video BW 1.0	MHz		Span 4.000 MHz I.01 s (1001 pts)	X Axis Scale Log Lin	Lo
500	? May 20, 2024 2:17:09 PM	$\mathbb{P} \triangle$				Signal Track (Span Zoom)	

## 15 M\_Band Edge\_Low\_BPSK\_1RB