

Spectrum Analyzer 1 Occupied BW	+						Frequency	- 1 絵
RL 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: 3.5 Avg Hold: 200/2 Radio Std: None	00	provide and an other states	Frequency 10000 GHz	Settings
DI PASS 1 Graph v Scale/Div 10.0 dB		Ref LvI Offset 27				Span 20.000	MHz	
Log 30.0		Ref Value 40.00 (JBM			CF Step 2.0000	o 00 MHz	
20.0	Janam	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~		Au Ma		
-10.0 -20.0 -30.0	contra -			- Andrew	PEAK	Freq Of 0 Hz	fset	
-40.0 -50.0								
Center 3.50001 GHz #Res BW 200.00 kHz		#Video BW 820.0	00 kHz	#Swee	Span 20 MHz 50.0 ms (1001 pts)			
2 Metrics v								
Occupied Bandwidth 8.688	8 MHz		Total Power		26.9 dBm			
Transmit Freq Error x dB Bandwidth	5.101 ki 10.37 Mi		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
1 つ C 1 ?	Jul 08, 2024 10:35:26 AM							

n77(3450~3550 MHz)_10 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					🚺 Frequ	iency 🔻 🕌
KEYSIGHT Input: RF RL ↔ Align: Auto Image: 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: 3.500010000 Avg Hold: 200/200 Radio Std: None		Center Frequency 3.500010000 GH	Settings
1 Graph		Ref LvI Offset 27				Span 30.000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00				CF Step 3.000000 MHz	
20.0	Januar			7		Auto Man	
0.00				Jaka markan	THE ALL A	Freq Offset) Hz	
-40.0							
Center 3.50001 GHz #Res BW 300.00 kHz		Video BW 1.200	00 MHz	Sp #Sweep 50.0 ms	an 30 MHz (1001 pts)		
2 Metrics V							
Occupied Bandwidth 12.9	59 MHz		Total Power	31.3 dBr	n		
Transmit Freq Error x dB Bandwidth	-373.68 ki 14.81 Mi		% of OBW Pov x dB	ver 99.00 9 -26.00 d			Local
4 7 7 1 7	Jul 08, 2024 10:55:28 AM						

n77(3450~3550 MHz)_15 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1	+					*	Frequency	- 1 器
RL + Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.50001 Avg Hold: 200/200 Radio Std: None	0000 GHz	printer and a second second	Frequency 10000 GHz	Settings
I Graph		Ref LvI Offset 27				Span 30.000	MHz	
icale/Div 10.0 dB .og 30.0		Ref Value 40.00	dBm			CF Step 3.0000) 00 MHz	
20.0			๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	7		Aut Ma		
10.0 20.0	Man			- Anner	PEAK	Freq Of 0 Hz	fset	
30.0 40.0 50.0								
Center 3.50001 GHz Res BW 300.00 kHz	l i	#Video BW 1.200	00 MHz	 #Sweep 50.	Span 30 MHz 0 ms (1001 pts)			
? Metrics v								
Occupied Bandwidth			T-4-1 D	04	0 dB			
	74 MHz		Total Power		2 dBm			
Transmit Freq Error x dB Bandwidth	-389.97 kl 14.86 Ml		% of OBW Pow x dB		9.00 % 6.00 dB			Local
1 7 7 1	? Jul 08, 2024 10:56:00 AM							

n77(3450~3550 MHz)_15 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	- 影
KEYSIGHT Input: RF RL ↔ 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 Avg Hold: 2 Radio Std: 1		3.5000	Frequency 10000 GHz	Settings
1 Graph 🔻		ef LvI Offset 27				Span 30.000	MHz	
Scale/Div 10.0 dB Log 30.0	R	ef Value 40.00 o	dBm			CF Step 3.0000) 00 MHz	
20.0	permanen	mana	demonstration of the second	7		Au Ma		
20.0 Julian 20.0 J				how	PEAK	Freq Of 0 Hz	fset	
-40.0								
Center 3.50001 GHz #Res BW 300.00 kHz	#	Video BW 1.200	00 MHz	#Sw	Span 30 MHz (eep 50.0 ms (1001 pts)			
2 Metrics v								
Occupied Bandwidth 12.9	98 MHz		Total Power		30.1 dBm			
Transmit Freq Error x dB Bandwidth	-388.32 kH 14.79 MH		% of OBW Pow x dB	er	99.00 % -26.00 dB			Local
4 7 C 1	? Jul 08, 2024 10:56:30 AM				: 🔛 🔀			

n77(3450~3550 MHz)_15 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	▼ ³¹² / ₂₁₈
KEYSIGHT Input: RF RL ↔ Align: Auto T 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: 3.500 Avg Hold: 200/200 Radio Std: None)10000 GHz	3.5000	Frequency 10000 GHz	Settings
1 Graph 🔹		Ref LvI Offset 27				Span 30.000	MHz	
Scale/Div 10.0 dB Log 30.0		Ref Value 40.00	dBm			CF Step 3.0000	o 00 MHz	
20.0	-	manna	v	~		Au Ma		
0.00 -10.0 -20.0	~ _				PEAK	Freq Of 0 Hz	fset	
-30.0 -40.0 -50.0								
Center 3.50001 GHz #Res BW 300.00 kHz	f	#Video BW 1.200	00 MHz	#Sweep 50	Span 30 MHz 0.0 ms (1001 pts)			
2 Metrics Y								
Occupied Bandwidth	88 MHz		Total Power		9.4 dBm			
Transmit Freq Error	-354.45 kł		% of OBW Pov	ver	99.00 %			_
x dB Bandwidth	14.67 Mł	HZ	x dB	-2	26.00 dB			Local
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n77(3450~3550 MHz)_15 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+				Frequ	ency 🔻 🔡
KEYSIGHT Input: RF RL + 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: 3.500010000 GH Avg Hold: 200/200 Radio Std: None	3.500010000 GH	Settings
1 Graph 🔹		Ref LvI Offset 27			Span 30.000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm		CF Step 3.000000 MHz	
20.0			~~~~~~		Auto Man	
0.00 -10.0 -20.0 -30.0				- manuella	PEAK 0 Hz	
-30.0 -40.0 -50.0						
Center 3.50001 GHz #Res BW 300.00 kHz	ŧ	≇Video BW 1.200	00 MHz	⊥ Span #Sweep 50.0 ms (10	30 MHz 001 pts)	
2 Metrics v						
Occupied Bandwidth	04 1415		T-4-1 D	07.4 48-		
	31 MHz		Total Power	27.1 dBm		
Transmit Freq Error x dB Bandwidth	-362.47 kł 14.71 Mł		% of OBW Pow x dB	ver 99.00 % -26.00 dB		Local
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n77(3450~3550 MHz)_15 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					Frequency	- 湯
KEYSIGHT Input: RF RL + Coupling: DC Align: Auto		Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.500010000 GHz Avg Hold: 200/200 Radio Std: None	process and the second	Frequency 10000 GHz	Settings
1 Graph 🔻		f LvI Offset 27.			40.000	MHz	
Scale/Div 10.0 dB	Re	f Value 40.00 d	Bm		CF Step 4.0000) 00 MHz	
20.0	from an and the second	wa	-9096- ⁶ 0-46 ⁻ -96-4 ⁻ 0-46-		Aut Ma		
0.00 -10.0 -20.0				PEA PEA	Freq Of 0 Hz	fset	
-30.0							
Center 3.50001 GHz #Res BW 390.00 kHz	#V	deo BW 1.600	0 MHz	↓ Span 40 MH #Sweep 50.0 ms (1001 pt			
2 Metrics V							
Occupied Bandwidth	90 MHz		Total Power	31.7 dBm			
Transmit Freq Error	-174.41 kHz		% of OBW Pow				
x dB Bandwidth	20.10 MHz		x dB	-26.00 dB			Local
	? Jul 08, 2024 11:08:16 AM						

n77(3450~3550 MHz)_20 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	- 1 袋
KEYSIGHT Input: RF R L Imput: RF 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 Fred Avg Hold: 2 Radio Std: I		3.5000	requency 10000 GHz	Settings
1 Graph		Ref LvI Offset 27				Span 40.000	MHz	
Scale/Div 10.0 dB		Ref Value 40.00 o	iBm			CF Step 4.00000	Concerne and the set	
20.0		the company of the second second	high a free from from from from the second second			Aut Mai		
0.00 -10.0 -20.0				have	PEAK	Freq Off 0 Hz	set	
-30.0 -40.0 -50.0								
Center 3.50001 GHz #Res BW 390.00 kHz		Video BW 1.600	0 MHz	 #Sv	Span 40 MH weep 50.0 ms (1001 pts			
2 Metrics ¥								
Occupied Bandwidth	02 MHz		Total Power		31.4 dBm			
Transmit Freq Error x dB Bandwidth	-190.98 kH 20.26 MH		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
		2						
1 7 C L	? Jul 08, 2024 11:08:47 AM							

n77(3450~3550 MHz)_20 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+					*	Frequency	- * 影
KEYSIGHT Input: RF R L +++ Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq Avg Hold: 20 Radio Std: M		procession in the local division of the	Frequency 10000 GHz	Settings
1 Graph		Ref LvI Offset 27				Span 40.000	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Ster 4.0000	o 00 MHz	
20.0	Jamanaou	~~~~~~	£8}+99+9-1885-74995-44-4-4-747	-		Au Ma		
-10.0 -20.0				mar mar mar	PEAK	Freq Of 0 Hz	fset	
-30.0 -40.0 -50.0								
Center 3.50001 GHz #Res BW 390.00 kHz		#Video BW 1.600	00 MHz	#Sw	Span 40 MHz veep 50.0 ms (1001 pts			
2 Metrics v								
Occupied Bandwidth	4 MHz		Total Power		30.2 dBm			
Transmit Freq Error x dB Bandwidth	-186.88 kł 20.11 Mł		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
	Jul 08, 2024 11:09:19 AM	\mathbb{D}						

n77(3450~3550 MHz)_20 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					*	Frequency	- v 🔆
KEYSIGHT Input: RF R L ↔ Coupling: DC Align: Auto 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: 2 Radio Std: 1		3.5000	Frequency 10000 GHz	Settings
1 Graph		Ref LvI Offset 27				Span 40.000	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 4.0000	o 00 MHz	
20.0	man					Au Ma		
-10.0 -20.0 -30.0				- Ander	PEAK	Freq Of 0 Hz	fset	
-30.0								
Center 3.50001 GHz #Res BW 390.00 kHz	*	Video BW 1.600	00 MHz	#Sv	Span 40 MHz weep 50.0 ms (1001 pts			
2 Metrics v Occupied Bandwidth 18.00	20 MHz		Total Power		29.5 dBm			
Transmit Freq Error x dB Bandwidth	-214.77 kł 20.33 Mł		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Local
1 500	Jul 08, 2024 11:09:49 AM				: 🕃 🔀			

n77(3450~3550 MHz)_20 M_OBW_Mid_64QAM_FullRB



CUPIED BW	F Input Z:	50 Ω Atten: 20 dB	Trig: Free Run	Center Freq: 3.500010000 GHz	Frequer	icy 🕇 🛃
Align: Al	g DC Corr CC uto Freq Re	orr Preamp: Off f: Int (S)	Gate: Off #IF Gain: Low	Avg Hold: 200/200 Radio Std: None	Center Frequency 3.500010000 GHz	Settings
PASS iraph	NFE: A	Ref LvI Offset			Span 40.000 MHz	
ale/Div 10.0 dB		Ref Value 40.0	0 dBm		CF Step 4.000000 MHz	
.0		man		~~	Auto Man	
.0	man			PE	Freq Offset 0 Hz	
.0						
nter 3.50001 GHz es BW 390.00 kHz		#Video BW 1.6	6000 MHz	Span 40 Mł #Sweep 50.0 ms (1001 pt		
letrics	•					
Occupied Ban						
	17.919 MHz		Total Power	27.4 dBm		
Transmit Freq x dB Bandwid		213.83 kHz 19.79 MHz	% of OBW Pow x dB	ver 99.00 % -26.00 dB		Loc

n77(3450~3550 MHz)_20 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1	+				Frequenc	y • 🔛
RL + Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.500010000 GHz Avg Hold: 200/200 Radio Std: None	Center Frequency 3.500010000 GHz	Settings
1 Graph	NFE: Adaptive	Ref LvI Offset 27	7.50 dB		Span 60.000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00 (dBm		CF Step 6.000000 MHz	1
20.0	Janana	San			Auto Man	
-10.0	1			Man management	PEAK 0 Hz	
-30.0 -40.0 -50.0						
Center 3.50001 GHz #Res BW 620.00 kHz		Video BW 2.400	00 MHz	Span 60 #Sweep 50.0 ms (1001		
2 Metrics V						
Occupied Bandwidth	29 MHz		Total Power	31.8 dBm		
Transmit Freq Error	-559.55 kł	łz	% of OBW Pov			
x dB Bandwidth	29.42 MH	łz	x dB	-26.00 dB		Local
1 501	Jul 08, 2024 11:40:06 AM	ÐA			X	

n77(3450~3550 MHz)_30 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1 Occupied BW	• +					Frequenc	y • 👫
RL ++ Align: Auto	Freq Re	Corr Preamp: (ef: Int (S)		Center Freq: 3.500 Avg Hold: 200/200 Radio Std: None	C	enter Frequency 500010000 GHz	Settings
1 Graph	NFE: A	Ref Lvi Off	set 27.50 dB			pan 60.000 MHz	
Scale/Div 10.0 dB _og 30.0		Ref Value 4	0.00 dBm			F Step 6.000000 MHz	1
20.0	- June	and the second	al and a second and			Auto Man	
10.0 20.0				termine	DE ALC	req Offset Hz	
30.0 40.0 50.0							
enter 3.50001 GHz Res BW 620.00 kHz		#Video BW	2.4000 MHz	#Sweep 5	Span 60 MHz 0.0 ms (1001 pts)		
Metrics v							
Occupied Bandw	idth 26.968 MHz		Total Power		1.5 dBm		
Transmit Freg Er		570.31 kHz	% of OBW Po		99.00 %		
x dB Bandwidth		29.62 MHz	x dB		26.00 dB		Local
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n77(3450~3550 MHz)_30 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Cccupied BW	+					*	Frequency	- 1 😤
KEYSIGHT Input: RF RL Imput: RF 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 Free Avg Hold: 2 Radio Std: 1		3.5000	Frequency 10000 GHz	Settings
1 Graph 🔹		Ref LvI Offset 27				Span 60.000	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Ste 6.0000	o 00 MHz	
20.0	for the second s	and the second	and the second second	~		Au Ma		
10.0 20.0 30.0				- L	PEAK	Freq Ot 0 Hz	fset	
-40.0								
Center 3.50001 GHz Res BW 620.00 kHz		Video BW 2.400	00 MHz	#Sv	Span 60 MHz veep 50.0 ms (1001 pts)			
2 Metrics v Occupied Bandwidth 27.00	02 MHz		Total Power		30.5 dBm			
Transmit Freq Error x dB Bandwidth	-599.02 kł 29.64 Mł		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
	Jul 08, 2024 11:41:08 AM							

n77(3450~3550 MHz)_30 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+				Frequenc	$y = \frac{s^{1}z}{z_{1}s}$
KEYSIGHT Input: RF R L ↔ 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: 3.500010000 GHz Avg Hold: 200/200 Radio Std: None	Center Frequency 3.500010000 GHz	Settings
1 Graph v		Ref LvI Offset 27			Span 60.000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm		CF Step 6.000000 MHz	1
20.0	Januar	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		*	Auto Man	
-10.0 -20.0 -30.0	~				PEAK 0 Hz	
-30.0 -40.0 -50.0						
Center 3.50001 GHz #Res BW 620.00 kHz	#	Video BW 2.400	00 MHz	Span 60 #Sweep 50.0 ms (1001		
2 Metrics T						
Occupied Bandwidth 26.93	30 MHz		Total Power	29.6 dBm		
Transmit Freq Error x dB Bandwidth	-584.05 kH 29.33 MH		% of OBW Pow x dB	ver 99.00 % -26.00 dB		Local
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n77(3450~3550 MHz)_30 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+				Frequen	cy 🔻 🕌
KEYSIGHT Input: RF RL Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3 500010000 GHz Avg Hold: 200/200 Radio Std: None	Center Frequency 3.500010000 GHz	Settings
PASS	NFE: Adaptive				Span	
1 Graph		Ref LvI Offset 27			60.000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm		CF Step 6.000000 MHz	
20.0		www.contro-cetical	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\sim	Auto Man	
10.0				- Anonemon - P	EAK 0 Hz	
-30.0 -40.0 -50.0						
Center 3.50001 GHz Res BW 620.00 kHz		Video BW 2.400	00 MHz	↓ Span 60 I #Sweep 50.0 ms (1001		
2 Metrics 🔹 🔻						
Occupied Bandwidth	4 MHz		Total Power	27.6 dBm		
Transmit Freq Error	4 MITIZ -487.06 kH		% of OBW Pov			
x dB Bandwidth	29.35 MF		x dB	-26.00 dB		Local
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n77(3450~3550 MHz)_30 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+				Freque	ncy 🔻 🔛
KEYSIGHT Input: RF R L ↔ 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: 3.500010000 GHz Avg Hold: 200/200 Radio Std: None	Center Frequency 3.500010000 GHz	Settings
1 Graph 🔻		Ref LvI Offset 27			Span 80.000 MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm		CF Step 8.000000 MHz	
20.0	Julian	and a second and a second a s	an a		Auto Man	
0.00	~			Pl	Freq Offset 0 Hz	
30.0 40.0 50.0						
enter 3.50001 GHz Res BW 820.00 kHz	#	Video BW 3.000	00 MHz	Span 80 M #Sweep 50.0 ms (1001 p		
Metrics v						
	31 MHz		Total Power	32.0 dBm		
Transmit Freq Error x dB Bandwidth	-1.0610 MH 38.71 MH		% of OBW Pov x dB	ver 99.00 % -26.00 dB		Local
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n77(3450~3550 MHz)_40 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	- 1 景
RL + Auto	Input Z: 50 Ω Corr CCorr Freq Ref. Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq. 3 Avg Hold: 200 Radio Std: No			requency 10000 GHz	Settings
1 Graph v		Ref LvI Offset 27				Span 80.000	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 8.0000	An example of the second second	
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10.0				1	PEAK	Freq Off 0 Hz	set	
30.0 40.0 50.0								
Center 3.50001 GHz Res BW 820.00 kHz		Video BW 3.000	00 MHz	#Swe	Span 80 MHz ep 50.0 ms (1001 pts)			
2 Metrics 🔹 🔻								
Occupied Bandwidth	33 MHz		Total Power		31.5 dBm			
Transmit Freq Error	-1.0887 MH		% of OBW Pov	ver	99.00 %			_
x dB Bandwidth	38.84 MH	z	x dB		-26.00 dB			Local
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n77(3450~3550 MHz)_40 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	2						Frequency	- * 影
KEYSIGHT Input: RF R L Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Free Avg Hold: 2 Radio Std: 1		and the second s	Frequency 10000 GHz	Settings
UT PASS		tef LvI Offset 27				Span 80.000	MHz	
Scale/Div 10.0 dB	R	tef Value 40.00 o	dBm			CF Step 8.0000	o 00 MHz	
20.0	formation		an an an an	~		Au Ma		
-10.0				June	PEAK	Freq Of 0 Hz	fset	
-30.0 -40.0 -50.0								
Center 3.50001 GHz #Res BW 820.00 kHz	. #	Video BW 3.000	00 MHz	#Sv	Span 80 MHz veep 50.0 ms (1001 pts			
2 Metrics Y								
Occupied Bandwidth 35.891	MHz		Total Power		30.4 dBm			
Transmit Freq Error x dB Bandwidth	-1.0857 MH 38.69 MH		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
	_							
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n77(3450~3550 MHz)_40 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					\$	Frequency	- 7 祭
KEYSIGHT Input: RF R L Imput: RF Align: Auto Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq Avg Hold: 2 Radio Std: 1		printer and an other	Frequency 10000 GHz	Settings
1 Graph	NFE: Adaptive	Ref LvI Offset 27	7.50 dB			Span 80.000	MHz	
Scale/Div 10.0 dB	F	Ref Value 40.00	dBm			CF Step 8.0000) 00 MHz	
20.0	June		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ren l		Au Ma		
-10.0	ned			trans	PEAU	Freq Of 0 Hz	fset	
-40.0								
Center 3.50001 GHz #Res BW 820.00 kHz		Video BW 3.000	00 MHz	#Sv	Span 80 MH veep 50.0 ms (1001 pts			
2 Metrics 🔹								
Occupied Bandwidth 35.87	9 MHz		Total Power		29.8 dBm			
Transmit Freq Error x dB Bandwidth	-1.1196 MH 38.69 MH		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Local
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n77(3450~3550 MHz)_40 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1	+					\$	Frequency	- 1 袋
RL + Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.500010000 Avg Hold: 200/200 Radio Std: None	GHz	processing and a second second	requency 0000 GHz	Settings
1 Graph		Ref LvI Offset 27				Span 80.000	MHz	
Scale/Div 10.0 dB		Ref Value 40.00 o	dBm			CF Step 8.00000	0 MHz	
20.0 10.0 0.00	prom	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\sim		Auto Mar		
-10.0	1			hummen	PEAK	Freq Offs 0 Hz	set	
-30.0 -40.0 -50.0								
Center 3.50001 GHz #Res BW 820.00 kHz	#	Video BW 3.000	00 MHz	Sp #Sweep 50.0 ms	oan 80 MHz (1001 pts)			
2 Metrics V								
Occupied Bandwidth	3 MHz		Total Power	27.5 dB	m			
Transmit Freq Error	-1.1492 MH		% of OBW Pow	ver 99.00	%			_
x dB Bandwidth	38.87 MH	iz	x dB	-26.00 c	18			Local
1 7 7 1 7	Jul 08, 2024 11:54:42 AM	ÐA						

n77(3450~3550 MHz)_40 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	- * 影
KEYSIGHT Input: RF R L Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.500010 Avg Hold: 200/200 Radio Std: None	000 GHz	printing and the second	Frequency 10000 GHz	Settings
1 Graph		Ref LvI Offset 27				Span 100.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 10.000) 000 MHz	
20.0	Juniar	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Aut Ma		
-10.0				hanne and the second	PEAK	Freq Off 0 Hz	fset	
-30.0 -40.0 -50.0								
Center 3.50001 GHz #Res BW 1.0000 MHz	#	Video BW 4.000	00 MHz		Span 100 MHz ms (1001 pts)			
2 Metrics v								
Occupied Bandwidth	i4 MHz		Total Power	32.1	dBm			
Transmit Freq Error	-924.41 kH	Iz	% of OBW Pov	ver 99.	00 %			
x dB Bandwidth	50.14 MH	iz	x dB	-26.0	0 dB			Local
¶ n C ■ ?	Jul 08, 2024 12:05:09 PM							

n77(3450~3550 MHz)_50 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1	+						Frequency	- 帰
KEYSIGHT Input: RF RL +++ Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3 Avg Hold: 200 Radio Std: Nor			Frequency 10000 GHz	Settings
I Graph		Ref LvI Offset 27				Span 100.00	MHz	
cale/Div 10.0 dB		Ref Value 40.00	dBm	\square		CF Step 10.000) 000 MHz	
20.0	Janan		n mar an	~~~		Aut Ma		
10.0 20.0				Lame	PEAK	Freq Of 0 Hz	fset	
30.0 40.0 50.0								
enter 3.50001 GHz Res BW 1.0000 MHz		#Video BW 4.000	00 MHz	#Swee	Span 100 MHz ep 50.0 ms (1001 pts)			
Metrics v								
Occupied Bandwidth								
	961 MHz		Total Power		31.7 dBm			
Transmit Freq Error x dB Bandwidth	-874.31 k 50.62 M		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Loca
1 2 1	? Jul 08, 2024 12:05:41 PM	$\Theta \triangle$						

n77(3450~3550 MHz)_50 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	+						\$	Frequency	- 1 😤
KEYSIGHT 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: 2 Radio Std: 1		ЗНz	3.5000	Frequency 10000 GHz	Settings
1 Graph 🔻		Ref LvI Offset 27					Span 100.00	MHz	
Scale/Div 10.0 dB Log 30.0		Ref Value 40.00	dBm				CF Step 10.000) 000 MHz	
20.0	Jana	an and man	en an	~~~			Au Ma		
0.00 10.0 20.0				-		PEAK	Freq Of 0 Hz	fset	
40.0									
Center 3.50001 GHz Res BW 1.0000 MHz	;	∜Video BW 4.000	00 MHz	#Sv	Spar veep 50.0 ms	n 100 MHz (1001 pts)			
2 Metrics v									
45.93	4 MHz		Total Power		30.6 dBn	n			
Transmit Freq Error x dB Bandwidth	-898.07 kł 50.60 Mł		% of OBW Pow x dB	ver	99.00 % -26.00 dB				Local
1 つ つ つ 2	Jul 08, 2024 12:06:11 PM	ÐA				X			

n77(3450~3550 MHz)_50 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					₽	Frequency	一般
KEYSIGHT Input: RF RL Coupling: DC Align: Auto VI 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 Avg Hold: 20 Radio Std: N			Frequency 10000 GHz	Settings
1 Graph 🔹		Ref LvI Offset 27				100.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00 (iBm			CF Step 10.000) 000 MHz	
20.0	James			~		Aut Mai		
-10.0 -20.0					PE,		set	
-30.0								
Center 3.50001 GHz #Res BW 1.0000 MHz		Video BW 4.000	0 MHz	#Sw	Span 100 M veep 50.0 ms (1001 p			
2 Metrics Y								
Occupied Bandwidth	45 MHz		Total Power		29.9 dBm			
Transmit Freq Error x dB Bandwidth	-901.94 kł 50.05 Mł		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
A de Danowidar	50.05 Mil	12	XUD		-20.00 00			LOCAI
	Jul 08, 2024 12:06:42 PM			ļ		7		

n77(3450~3550 MHz)_50 M_OBW_Mid_64QAM_FullRB



pectrum Analyzer 1	+					\$	Frequency	- • S.
REYSIGHT 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: 3.5000100 Avg Hold: 200/200 Radio Std: None	00 GHz	3.5000	Frequency 10000 GHz	Settings
Graph v		Ref LvI Offset 27				Span 100.00	MHz	
cale/Div 10.0 dB		Ref Value 40.00 o	dBm			CF Step 10.000) 000 MHz	
0.0	man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	~		Aut Ma		
0.00					PEAK	Freq Of 0 Hz	fset	
80.0 10.0 50.0								
enter 3.50001 GHz Res BW 1.0000 MHz	i	#Video BW 4.000	00 MHz	S \$ \$\$weep 50.0 n	pan 100 MHz ns (1001 pts)			
Metrics ¥								
Occupied Bandwidth								
	97 MHz		Total Power	27.9 0				
Transmit Freq Error x dB Bandwidth	-946.36 k 50.46 M		% of OBW Pov x dB	ver 99.0 -26.00				Loca
501	? Jul 08, 2024 12:07:13 PM							

n77(3450~3550 MHz)_50 M_OBW_Mid_256QAM_FullRB



EYSIGHT Input RF	H Input Z: 50 Ω Corr CCorr	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off	Center Freq: 3 500010000 Avg Hold: 200/200	GHz Cer	Frequency Iter Frequency	Settings
L Align: Auto	Freq Ref: Int (S)	Preamp. On	#IF Gain: Low	Radio Std: None	3.5	00010000 GHz	Settings
Graph 🔻	F	Ref LvI Offset 27			Spa 12	in 0.00 MHz	
cale/Div 10.0 dB		Ref Value 40.00	dBm			Step 000000 MHz	
0.0	permanen	us	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Auto Man	
0.0				- And -	PEAK 0 H	q Offset Iz	
0.0							
enter 3.50001 GHz tes BW 1.2000 MHz	#	Video BW 5.000	00 MHz	Spa #Sweep 50.0 ms	n 120 MHz (1001 pts)		
Metrics •					,,		
Occupied Bandwidth							
58.24	2 MHz		Total Power	32.2 dB	m		
Transmit Freq Error x dB Bandwidth	5.976 kH 64.97 MH		% of OBW Pov x dB	ver 99.00 -26.00 d			Loc
	Jul 08, 2024 12:17:43 PM						

n77(3450~3550 MHz)_60 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	一邊
KEYSIGHT Input: RF RL Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.50 Avg Hold: 200/20 Radio Std: None			requency 10000 GHz	Settings
1 Graph	NFE: Adaptive	Ref LvI Offset 27	7.50 dB			Span 120.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 12.000	000 MHz	
20.0	June	manhorman	and the second	mader		Aut Ma		
-10.0	APART .			- And -	PEAK	Freq Off 0 Hz	set	
-30.0 -40.0 -50.0								
Center 3.50001 GHz #Res BW 1.2000 MHz	#	Video BW 5.000	00 MHz	#Sweep	Span 120 MHz 50.0 ms (1001 pts)			
2 Metrics ¥								
Occupied Bandwidth	83 MHz		Total Power		31.7 dBm			
	-23.103 kł		% of OBW Pov		31.7 dBm 99.00 %			
Transmit Freq Error x dB Bandwidth	65.81 Mi		x dB	ver	-26.00 dB			Local
1 7 7 1 7	Jul 08, 2024 12:18:14 PM							

n77(3450~3550 MHz)_60 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+						₽	Frequency	- • 😤
KEYSIGHT Input: RF R L ↔ 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 Fre Avg Hold 2 Radio Std		Hz	Center Frequency 3.500010000 GHz		Settings
1 Graph V		Ref LvI Offset 27					Span 120.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00 (dBm				CF Step 12.000) 000 MHz	
20.0				mon			Aut Ma		
0.00 -10.0 -20.0 -30.0					manner	PEAK	Freq Of 0 Hz	fset	
-30.0 -40.0 -50.0									
Center 3.50001 GHz #Res BW 1.2000 MHz	+	Video BW 5.000	00 MHz	#S	Span weep 50.0 ms (1	120 MHz 1001 pts)			
2 Metrics v									
Occupied Bandwidth 58.09	98 MHz		Total Power		30.7 dBm	1.			
Transmit Freq Error x dB Bandwidth	37.432 kł 65.47 Mł		% of OBW Pow x dB	ver	99.00 % -26.00 dB				Local
	Jul 08, 2024 12:18:44 PM					X			

n77(3450~3550 MHz)_60 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	+						Frequency	- 1 蒜
KEYSIGHT Input: RF RL + 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: 2 Radio Std:		3.5000	Frequency 10000 GHz	Settings
1 Graph v Scale/Div 10.0 dB		Ref Lvi Offset 27				Span 120.00	MHz	
Log 30.0		Ref Value 40.00	dBm			CF Step 12.000	p 1000 MHz	
20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m		Au Ma		
10.0 20.0 30.0					PEAk		lfset	
-40.0								
Center 3.50001 GHz #Res BW 1.2000 MHz	÷	Video BW 5.000	00 MHz	#Sv	Span 120 MH veep 50.0 ms (1001 pts			
2 Metrics v								
Occupied Bandwidth 58.23	2 MHz		Total Power		30.1 dBm			
Transmit Freq Error x dB Bandwidth	-60.447 kł 65.04 Mł		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
1 つ つ こ 2	Jul 08, 2024 12:19:15 PM							

n77(3450~3550 MHz)_60 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					₽	Frequency	- 7 蒜
RL + 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: 3.500 Avg Hold: 200/200 Radio Std: None	010000 GHz	3.5000	Frequency 10000 GHz	Settings
1 Graph 🔹		Ref LvI Offset 27				Span 120.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00 (dBm			CF Step 12.000) 000 MHz	
20.0	Junear	non no	••••••			Aut Ma		
-10.0					PEAK	Freq Of 0 Hz	fset	
-30.0								
Center 3.50001 GHz #Res BW 1.2000 MHz		≠Video BW 5.000	0 MHz	#Sweep 5	Span 120 MHz 0.0 ms (1001 pts)			
2 Metrics ¥								
Occupied Bandwidth								
	09 MHz		Total Power		8.1 dBm			
Transmit Freq Error x dB Bandwidth	22.494 ki 65.15 Mi		% of OBW Pov x dB		99.00 % 26.00 dB			Local
1 571	? Jul 08, 2024 12:19:46 PM							

n77(3450~3550 MHz)_60 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+				\$	Frequency v
KEYSIGHT Input: RF RL +++ Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.500010000 GHz Avg Hold: 200/200 Radio Std: None	Center Free 3.5000100	Settings
Dor PASS		tef LvI Offset 27			Span 140.00 MH	z
Scale/Div 10.0 dB	R	tef Value 40.00 o	iBm		CF Step 14.000000	MHz
20.0	Januar		all and a second se		Auto Man	
-10.0				PI	Freq Offset 0 Hz	
-30.0 -40.0 -50.0						
Center 3.50001 GHz #Res BW 1.5000 MHz	#	Video BW 6.000	0 MHz	Span 140 M #Sweep 50.0 ms (1001 p		
2 Metrics v						
Occupied Bandwidth	85 MHz		Total Power	32.2 dBm		
Transmit Freq Error x dB Bandwidth	-1.5895 MH 72.07 MH		% of OBW Pow x dB	 Visitari kullakutkata 		Loca
まって	Jul 08, 2024 12:30:18 PM	∋∆				

n77(3450~3550 MHz)_70 M_OBW_Mid_BPSK_FullRB



Spectrum Analyzer 1 Occupied BW	• +						\$	Frequency	- 1 😤
RL +++ Align: Au	to Cor	ut Z: 50 Ω r CCorr q Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq Avg Hold: 2 Radio Std: 1			er Frequency 0010000 GHz	Settings
1 Graph	NFI •		ef Lvl Offset 27				Span 140	i .00 MHz	
Scale/Div 10.0 dB		R	ef Value 40.00 d	dBm			CF S 14.0	itep 100000 MHz	
20.0	ſ	nan an		ananan ananan dina karanan dina dina karanan dina dina dina dina dina dina dina	~~~			Auto Man	
-10.0					×.	anna an an anna	PEAK 0 Hz	Offset	
-30.0									
Center 3.50001 GHz Res BW 1.5000 MHz		#	video BW 6.000	0 MHz	#Sw	Span 140 veep 50.0 ms (100			
2 Metrics									
Occupied Band	dwidth 64.832 MHz			Total Power		31.7 dBm			
Transmit Freq	Error	-1.6403 MH		% of OBW Pov	ver	99.00 %			-
x dB Bandwidt	h	72.96 MH	Z	x dB		-26.00 dB			Local
1 7 7	? ^{Ju}	II 08, 2024 ::30:50 PM					X		

n77(3450~3550 MHz)_70 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	一袋
RL +++ 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: 3 Avg Hold: 200 Radio Std: No		printer and a second	Frequency 10000 GHz	Settings
Data PASS	F	Ref LvI Offset 27				Span 140.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm				000 MHz	
20.0 10.0 0.00	Junited		an a lanan di han an a			Au Ma		
-10.0 -20.0	/			- \	PEAk	Freq Ol 0 Hz	fset	
-30.0								
Center 3.50001 GHz #Res BW 1.5000 MHz	#	Video BW 6.000	00 MHz	#Swe	Span 140 MH ep 50.0 ms (1001 pts			
2 Metrics v								
Occupied Bandwidth	9 MHz		Total Power		30.7 dBm			
Transmit Freq Error x dB Bandwidth	-1.6261 MF 72.08 MF		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Land
X dB Bandwidth	72.08 MP		XUB		-20.00 0B			Local
1 5 C 7 2	Jul 08, 2024 12:31:20 PM	$\overline{\mathbb{O}}$						

n77(3450~3550 MHz)_70 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	 v s¹/₂₁
KEYSIGHT Input: RF RL ↔ Align: Auto VI PASS	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 Avg Hold: 20 Radio Std: N		3.5000	Frequency 10000 GHz	Settings
1 Graph 🔹		Ref LvI Offset 27				Span 140.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Ste 14.000	p 1000 MHz	
20.0	Junior	·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		Au Ma		
-10.0 -20.0				hun	PEAJ	Freq O 0 Hz	lfset	
-40.0								
Center 3.50001 GHz #Res BW 1.5000 MHz	1	Video BW 6.000	0 MHz	#Sw	Span 140 MH eep 50.0 ms (1001 pts			
2 Metrics								
Occupied Bandwidth 64.66	68 MHz		Total Power		30.2 dBm			
Transmit Freq Error x dB Bandwidth	-1.5782 Mi 71.74 Mi		% of OBW Pow x dB	ver	99.00 % -26.00 dB			Local
1 7 7 1	Jul 08, 2024 12:31:51 PM				: 🖹 🗙			

n77(3450~3550 MHz)_70 M_OBW_Mid_64QAM_FullRB



PASS Sraph v ale/Div 10.0 dB							
		Ref LvI Offset 2			Span 140.	00 MHz	
		Ref Value 40.00	dBm		CF St 14.0	tep 00000 MHz	
.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	******	~		Auto Man	
.0	~				PEAK 0 Hz	Offset	
0							
nter 3.50001 GHz es BW 1.5000 MHz		#Video BW 6.00	00 MHz	Spa #Sweep 50.0 ms	n 140 MHz (1001 pts)		
tetrics •							
Transmit Freq Er	64.966 MHz	89 MHz	Total Power % of OBW Pow	27.9 dB ver 99.00			
x dB Bandwidth		16 MHz	x dB	-26.00 d			Loc

n77(3450~3550 MHz)_70 M_OBW_Mid_256QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+					\$	Frequency	- 1 袋
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto 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: 3.50001000 Avg Hold: 200/200 Radio Std: None	00 GHz	3.5000	Frequency 10000 GHz	Settings
1 Graph 🔻		Ref LvI Offset 27				Span 160.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step 16.000) 000 MHz	
20.0	June	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Aut Ma		
0.00 -10.0 -20.0	/				PEAK	Freq Of 0 Hz	fset	
-30.0								
Center 3.50001 GHz #Res BW 1.6000 MHz	#	Video BW 6.000	00 MHz	Si Si Sweep 50.0 m	pan 160 MHz ns (1001 pts)			
2 Metrics V				· · · · ·	, , , ,			
Occupied Bandwidth								
	71 MHz		Total Power	32.4 d				
Transmit Freq Error x dB Bandwidth	-232.46 kH 85.07 MH		% of OBW Pow x dB	ver 99.0 -26.00				Local
4 7 7 1 1	Jul 08, 2024 12:43:03 PM							

n77(3450~3550 MHz)_80 M_OBW_Mid_BPSK_FullRB



KEYSIGHT Input RF Input Z: 50 0. Atten: 20 dB Coupling: DC Align: Auto Freq Ref: Int (S) Preamp: Off graph Ref Lvi Offset 2: Ref Value 40.00 Graph Ref Value 40.00 Ref Value 40.00 00 Ref Value 40.00 Ref Value 40.00 100 Ref Value 40.00 Ref Va	dBm	Avg Hold.; Radio Std	None	3.500 Span 160.00 CF Ste 16.00	0000 MHz uto lan	Settings
Graph Ref Lvi Offset 22 Ref Value 40.00 Ref Va	dBm	~~~~		160.00 CF Ste 16.000 At M Freq C	ep 0000 MHz uto Ian	
09 00 00 00 00 00 00 00 00 00 00 00 00 0				Freq C	0000 MHz uto lan	
All and a second	00 MHz			M Freq C	lan	
Metrics	00 MH7			The second se	Offset	
nter 3.50001 GHz #Video BW 6.000 es BW 1.6000 MHz #Video TH 4 A A A A A A A A A A A A A A A A A A	00 MHz					
es BW 1.6000 MHz Metrics V	00 MHz	•				
	00-11112	#S	Span 160 weep 50.0 ms (100			
Occupied Rendwidth						
77.646 MHz	Total Power		32.0 dBm			
Transmit Freq Error -176.29 kHz	% of OBW Pov	wer	99.00 %			-
x dB Bandwidth 85.53 MHz	x dB		-26.00 dB			Loc

n77(3450~3550 MHz)_80 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW	+						*	Frequency	- 影
KEYSIGHT Input: RF R L ↔ 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 Fre Avg Hold : Radio Std:) GHz	3.5000	Frequency 10000 GHz	Settings
1 Graph		Ref LvI Offset 27					Span 160.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm				CF Step 16.000) 000 MHz	
20.0	Juna		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m			Aut Ma		
-10.0				X	intra Mironwoody	PEAK	Freq Of 0 Hz	fset	
-30.0 -40.0 -50.0									
Center 3.50001 GHz #Res BW 1.6000 MHz		Video BW 6.000	00 MHz	#S	Spa weep 50.0 ms	an 160 MHz s (1001 pts)			
2 Metrics 🔹									
77.44	6 MHz		Total Power		30.9 dE	ßm			
Transmit Freq Error x dB Bandwidth	-202.66 kH 86.31 MH		% of OBW Pov x dB	ver	99.00 -26.00				Local
4 7 C 1 ?	Jul 08, 2024 12:44:06 PM				:: እ				

n77(3450~3550 MHz)_80 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	2							Frequency	- 7 絵
RL + Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low		Freq: 3.500010 d: 200/200 td: None	0000 GHz	printing and a second second	Frequency 10000 GHz	Settings
1 Graph	NFE: Adaptive	ef Lvl Offset 27	.50 dB				Span 160.00	MHz	
Scale/Div 10.0 dB	R	ef Value 40.00 d	dBm				CF Step 16.000) 000 MHz	
20.0			en den pagen en	-			Aut Ma		
-10.0					marian	PEAK	Freq Of 0 Hz	fset	
-50.0									
Center 3.50001 GHz #Res BW 1.6000 MHz	#	Video BW 6.000	0 MHz			Span 160 MHz ms (1001 pts)			
2 Metrics v									
Occupied Bandwidth 77.501	MHz		Total Power		30.2	2 dBm			
Transmit Freq Error x dB Bandwidth	-88.777 kH 84.57 MH		% of OBW Pow x dB	ver		.00 % 00 dB			Local
	101 08 2024								
	Jul 08, 2024 12:44:36 PM				.:: 🕃				

n77(3450~3550 MHz)_80 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+						Frequency	- 湯
KEYSIGHT Input: RF R L 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: 3 Avg Hold: 200 Radio Std: No		printer and an other state	Frequency 10000 GHz	Settings
1 Graph v Scale/Div 10.0 dB	F	tef LvI Offset 27. Ref Value 40.00 d				Span 160.00	MHz	
							000 MHz	
10.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~		Au Ma	in	
-10.0					PEAK	Freq Of 0 Hz	fset	
-30.0 -40.0 -50.0								
Center 3.50001 GHz #Res BW 1.6000 MHz	#	Video BW 6.000	0 MHz	#Swe	Span 160 MHz ep 50.0 ms (1001 pts)			
2 Metrics v								
Occupied Bandwidth	09 MHz		Total Power		28.2 dBm			
Transmit Freq Error	-173.97 kH		% of OBW Pov	ior	99.00 %			
x dB Bandwidth	85.58 MH		x dB		-26.00 dB			Local
	? Jul 08, 2024 12:45:07 PM							

n77(3450~3550 MHz)_80 M_OBW_Mid_256QAM_FullRB



TAUSS IN THE 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: 3.5 Avg Hold: 200/2 Radio Std: None		procession in the local division of the loca	requency 10000 GHz	Settings
Sraph 🔹		ef LvI Offset 27				180.00	MHz	
ale/Div 10.0 dB		tef Value 40.00	dBm			CF Step 18.0000	000 MHz	
0.0	Junear	****	and the second			Aut Mai		
00	/			- A	PEAK	Freq Off 0 Hz	set	
0.0 0.0 0.0								
nter 3.50001 GHz es BW 1.8000 MHz	\	/ideo BW 8.000	0 MHz	, #Swee	Span 180 MH p 50.0 ms (1001 pts			
Aetrics	97 MHz		Total Power		32.3 dBm			
Transmit Freq Error-424.61 kHzx dB Bandwidth96.06 MHz			% of OBW Power 99.00 % x dB -26.00 dB					Loc

n77(3450~3550 MHz)_90 M_OBW_Mid_BPSK_FullRB



	+						₽	Frequency	- 12
SYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low		d: 200/200	0010000 GHz	Center Frequency 3.500010000 GHz		Settings
PASS raph v	NFE: Adaptive	Ref LvI Offset 27	7.50 dB				Span 180.00	MHz	
ale/Div 10.0 dB		Ref Value 40.00					CF Step 18.000) 000 MHz	
0	Juni	hage and a second and	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Aut Ma		
0					Le marine	PEAK	Freq Of 0 Hz	fset	
0									
nter 3.50001 GHz es BW 1.8000 MHz		Video BW 8.000	0 MHz		Sweep 5	Span 180 MHz 50.0 ms (1001 pts)			
letrics v									
Occupied Bandwidth	96 MHz		Total Power			31.9 dBm			
Transmit Freq Error	-390.27 k		% of OBW Pov	ver		99.00 %			-
x dB Bandwidth	95.59 M	Hz	x dB			-26.00 dB			Loc

n77(3450~3550 MHz)_90 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1	+						\$	Frequency	· • 影
KEYSIGHT Input: RF R L Implication 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 Fre Avg Hold: 2 Radio Std:		00 GHz	3.5000	Frequency 10000 GHz	Settings
l Graph		Ref LvI Offset 27					Span 180.00	MHz	
cale/Div 10.0 dB		Ref Value 40.00	dBm				CF Step 18.000	o 000 MHz	
20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		meny			Au Ma		
0.00 10.0 20.0 30.0					- Any mar	PEAK	Freq Of 0 Hz	fset	
40.0									
enter 3.50001 GHz Res BW 1.8000 MHz		Video BW 8.000	0 MHz	#S		oan 180 MHz ns (1001 pts)			
Metrics V									
Occupied Bandwidth 87.32	1 MHz		Total Power		31.0 d	IBm			
Transmit Freq Error x dB Bandwidth	-235.94 kH 95.64 MH		% of OBW Pow x dB	ver	99.0 -26.00				Local
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n77(3450~3550 MHz)_90 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1	-							\$	Frequency	- 1 😤
KEYSIGHT 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	Avg Hol	Freq: 3.5 d: 200/2 itd: None		GHz	Center 3.5000	Settings	
Graph v		ef Lvi Offset 27						Span 180.00	MHz	
cog 30.0		ef Value 40.00 (dBm					CF Step 18.000	o 000 MHz	
20.0	france			~~~~				Au Ma		
10.0 20.0				À	Jun	~~~~~	PEAK	Freq Of 0 Hz	fset	
40.0 50.0										
enter 3.50001 GHz Res BW 1.8000 MHz	\	/ideo BW 8.000	0 MHz		#Sweep		n 180 MHz (1001 pts)			
Metrics V										
Occupied Bandwidth 87.15	4 MHz		Total Power			30.2 dB	m			
Transmit Freq Error x dB Bandwidth	-368.54 kH 94.52 MH		% of OBW Pow x dB	ver		99.00 9 -26.00 d				Loca
	Jul 08, 2024 12:57:20 PM									

n77(3450~3550 MHz)_90 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1	+						Frequency	- 影
KEYSIGHT Input: RF R L ↔ Coupling: DC Align: Auto 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: 3.5 Avg Hold: 200/20 Radio Std: None	0	3.5000	Frequency 10000 GHz	Settings
1 Graph 🔹		ef Lvl Offset 27				Span 180.00	MHz	
Scale/Div 10.0 dB	R	ef Value 40.00 o	1Bm			CF Step 18.000) 000 MHz	
20.0	forman		****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Au Ma		
0.00 10.0 20.0	/				PEAK	Freq Of 0 Hz	fset	
30.0								
50.0 Center 3.50001 GHz Res BW 1.8000 MHz	l I	/ideo BW 8.000	0 MHz	#Sweep	Span 180 MHz 50.0 ms (1001 pts)			
2 Metrics 🔻					, , , , , , , , , , , , , , , , , , ,			
Occupied Bandwidth								
87.35			Total Power		28.3 dBm			
Transmit Freq Error x dB Bandwidth	-131.21 kH 95.48 MH		% of OBW Pov x dB	ver	99.00 % -26.00 dB			Local
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n77(3450~3550 MHz)_90 M_OBW_Mid_256QAM_FullRB



Decupied BW Imput: RF KEYSIGHT Input: RF RL Coupling: DC Align: Auto Image: Auto	T Input Z: 50 Ω Atten: 20 Corr CCorr Preamp: 0 Freq Ref: Int (S) NFE: Adaptive	Off Gate Off Avg H	r Freq: 3.500010000 GHz old: 40/40 Std: None	Frequency Center Frequency 3.500010000 GHz	Settings
1 Graph v Scale/Div 10.0 dB	Ref Lvi Off Ref Value 4	set 27.50 dB 10.00 dBm		Span 200.00 MHz CF Step	
20.0 10.0 0.00		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		20.000000 MHz Auto Man	
10.0 20.0 L Constanting of the second sec			PEAK	Freq Offset 0 Hz	
-50.0 Center 3.5000 GHz #Res BW 2.0000 MHz	#Video BW	8.0000 MHz	Span 200 MHz #Sweep 50.0 ms (1001 pts)		
Metrics v		T-11 0	01.0 48-2		
96.67 Transmit Freq Error x dB Bandwidth	4 MHz -645.31 kHz 104.2 MHz	Total Power % of OBW Power x dB	31.8 dBm 99.00 % -26.00 dB		Local
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n77(3450~3550 MHz)_100 M_OBW_Mid_BPSK_FullRB



ccupied BW	+					\$	Frequency	- T - 21
EYSIGHT Input: RF L + Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Free Avg Hold: 4 Radio Std: 1		Center Frequency 3.500010000 GHz		Settings
PASS	NFE: Adaptive					Span		
Graph 🔻		Ref LvI Offset 27				200.00	MHz	
cale/Div 10.0 dB		Ref Value 40.00	dBm			CF Step)	
0.0						20.000	000 MHz	
0.0	June	ne - droman droma and	and the second	maning		Aut Ma		
0.0 0.0	s/				PEAK	Freq Of 0 Hz	fset	
.0								
0.0								
nter 3.5000 GHz		#Video BW 8.000			Span 200 MH			
tes BW 2.0000 MHz		#VIGeo BVV 8.000	JO MHZ	#Sv	veep 50.0 ms (1001 pts			
Metrics V								
Occupied Bandwidth	77 MHz		Total Power		31.3 dBm			
Transmit Freq Error	-743.14 ki	17	% of OBW Pov	Nor	99.00 %			-
x dB Bandwidth	105.1 M		x dB	WCI	-26.00 dB			Loc
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n77(3450~3550 MHz)_100 M_OBW_Mid_QPSK_FullRB



Spectrum Analyzer 1 Occupied BW								\$	Frequency	· • 晓
KEYSIGHT Input: RF R L + Align: Auto VT 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: 3 500010000 GHz Avg Hold: 40/40 Radio Std: None		Hz	Center F 3.50001 Span	Settings		
1 Graph 🔻		ef LvI Offset 27						200.00	MHz ,	
Scale/Div 10.0 dB	R	ef Value 40.00 d	BM					CF Step 20.0000	00 MHz	
20.0 10.0 0.00		-	per Marine and Marine	man				Auto Mar		
-10.0 -20.0	/				a bound	the manufacture and the last	PEAK	Freq Offs 0 Hz	set	
-30.0										
Center 3.5000 GHz #Res BW 2.0000 MHz	#\	/ideo BW 8.000	0 MHz		#Sw	Span eep 50.0 ms (1	200 MHz 1001 pts)			
2 Metrics v										
Occupied Bandwidth 96.675	MHz		Total Power			30.4 dBm				
Transmit Freq Error x dB Bandwidth	Transmit Freq Error -611.68 kHz		% of OBW Power 99.00 % x dB -26.00 dB						Local	
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n77(3450~3550 MHz)_100 M_OBW_Mid_16QAM_FullRB



Spectrum Analyzer 1 Occupied BW	+							Frequency	- 湯
KEYSIGHT Input: RF RL Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 20 dB Preamp: Off	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 3.500010000 GHz Avg Hold: 40/40 Radio Std: None		printing and a second second	Frequency 10000 GHz	Settings	
DI Graph	NFE: Adaptive	Ref LvI Offset 27	7.50 dB				Span 200.00	MHz	
Scale/Div 10.0 dB		Ref Value 40.00	dBm				CF Step 20.000) 000 MHz	
20.0	Januar	ð-vir _{st} afarstar af 1 ₈ 00 an a		m			Aut Ma		
-10.0 -20.0),	however	PEAK	Freq Of 0 Hz	fset	
-50.0									
Center 3.5000 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 96.5	1 599 MHz		Total Power		29.	9 dBm			
Transmit Freq Error x dB Bandwidth			% of OBW Power 99.00 % x dB -26.00 dB						Local
	a 1,4 02,0004	~ ^							
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n77(3450~3550 MHz)_100 M_OBW_Mid_64QAM_FullRB



Spectrum Analyzer 1	+							Frequency	- 後
KEYSIGHT Input: RF R L Imput: RF 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: 3.500010000 GHz Avg Hold: 40/40 Radio Std: None		z	Center Frequency 3.500010000 GHz		Settings
1 Graph 🔹	F	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) DOO MHz	
20.0	,	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~10-30-400-6-400				Aut Ma		
10.0 20.0					man water marilion	REAK	Freq Off 0 Hz	set	
-40.0									
Center 3.5000 GHz #Res BW 2.0000 MHz		Video BW 8.000	00 MHz	#	Span 2 Sweep 50.0 ms (10	200 MHz 001 pts)			
2 Metrics v									
96.79	0 MHz		Total Power		27.9 dBm				
Transmit Freq Error x dB Bandwidth			% of OBW Power 99.00 % x dB -26.00 dB						Local
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n77(3450~3550 MHz)_100 M_OBW_Mid_256QAM_FullRB





n77(3450~3550 MHz)_10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3450~3550 MHz)_10 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





n77(3450~3550 MHz)_10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3450~3550 MHz)_15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3450~3550 MHz)_15 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





n77(3450~3550 MHz)_15 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3450~3550 MHz)_20 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3450~3550 MHz)_20 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





n77(3450~3550 MHz)_20 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3450~3550 MHz)_30 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3450~3550 MHz)_30 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





n77(3450~3550 MHz)_30 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3450~3550 MHz)_40 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB





n77(3450~3550 MHz)_40 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_1RB





n77(3450~3550 MHz)_40 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB





n77(3450~3550 MHz)_50 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB