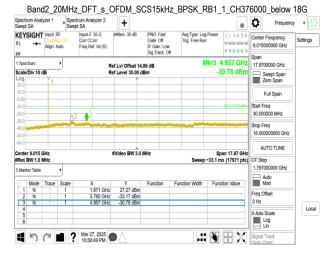
Report No.: TERF2410003183ER Page: 283 of 479



Band2 20MHz DET s OEDM SCS15kHz BPSK RB1 1 CH372000 below 18G

ectrum Ana vept SA	ilyzer 1	, Spe Swe	ctrum Analyzer 2 ept SA	+				•	Frequenc	, ,
EYSIGH			Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C			123456 MWWWWW PNNNNN	9.01000000 GHz	Settir
Spectrum		•		Ref Lvi Offset 14				1.902 GHz 25.73 dBm		
og	ав 1			Ref Level 30.00 c	15m		- 1	25.75 001	Swept Span Zero Span	
0.0	-								Full Span	
10.0	3	~	2					QL1 -13.00 dBm	Start Freq 30.000000 MHz	
10.0 10.0 10.0		ľ			i		Angi ling		Stop Freq 18.00000000 GHz	
0.0 enter 9.015	GHz			#Video BW 3.0	MHz		S	oan 17.97 GHz	AUTO TUNE	
Res BW 1.0 Marker Table						Swee		ns (17971 pts		
Mode) Scale	x	Y	Function	Function Width	- Euro	ction Value	Auto Man	1
1 N	1	f	1.851 GH		FUIGOUI	PUICOUT WIGH	Full	COULL VALUE		
2 N	1	f	3.720 GH						Freq Offset	
3 N	1	1	1.902 GH	z -25.73 dBm					0 Hz	
4							_		X Axis Scale	1
5 6									Log	
15	C	1 7	Mar 27, 2025 10:50:20 PM						Signal Track (Span Zoom)	í

Band2_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH372000upper 18G ctrum Analyzer 1 ept SA • 🌣 Frequency + · + KEYSIGHT Input: RF PNO: Fasi Gate: Off IF Gain: L nut 7: 50 0 #Atten: 30 dB Avg Type: Log-P Trig: Free Run Center Fr Settings Corr CCorr Freq Ref: Int (S) ↦ 19.00000000 GHz P N N N N Sig Track: Of Mkr1 19.342 GHz 2.000 1 Spectrum 00000 GHz Ref LvI Offset 4.86 dB Ref Level 24.86 dBm Scale/Div 10 dB .39 97 d Swept Span Zero Span Full Span Start Freq 18.0 10 GH . Stop Freq 20.0000 Span 2.000 GHz Sweep ~4.36 ms (2001 pts) CF Step 200.000000 MHz #Video BW 3.0 MHz Center 19.000 GHz Res BW 1.0 MHz Auto Man Mode Trace Scale Function Function Width Function Value 19.342 GHz -39.97 dBm Freq Offse 0 Hz Local X Axis Scale X 4 ら で ■ ? Mar 28, 2025
9:28:37 PM .# 🔖





Mode Trace Scale Function Function Width Function Value 19.299 GHz -39.63 dBm Freq Offse 0 Hz Local X Axis Scale Log Lin Mar 28, 2025 の 9:29:24 PM HX .# N

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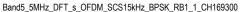
Report No.: TERF2410003183ER Page: 284 of 479

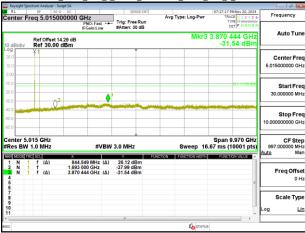


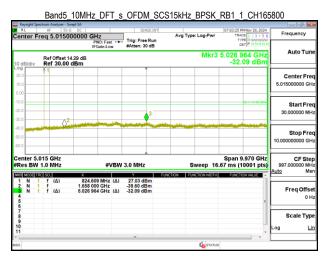
Band5 5MHz DFT s OFDM SCS15kHz BPSK RB1 1 CH165300

	ectrum Analyzer - Swep										
Center F	req 5.01500	PNO: Fas		SENSE:D	A	g Type:	Log-Pwr	TRA	M Nov 20, 2024	Fr	equency
10 dB/div	Ref Offset 14. Ref 30.00 d		w	#Atten: 30 dB			Mkr3	3.264 2	268 GHz 95 dBm		Auto Tun
20.0	×1										Center Fre
20.0	A2	∮ ³							0L1-19.09 dBm	30	Start Fre
40.0 	μ Ω								nagajas Ma	10.000	Stop Fr 0000000 G
Res BW	015 GHz 1.0 MHz	#1	/BW :	3.0 MHz				.67 ms (1	.970 GHz 0001 pts)	997 Auto	CF Ste .000000 M M
1 N 1 2 N 1 3 N 1 4 5	RC SCL f (Δ) f f (Δ)	824.609 MHz 1.653 000 GHz 3.264 268 GHz		27.08 dBm -38.74 dBm -31.95 dBm	FUNCTION	FUNC	TION WIDTH	RUNCT	ON WALUE	Ē	Freq Offs 0 I
7 8 9 10										Log	Scale Ty
50									_ · `		

			_s_OFDN	/L_SCS15k	Hz_BPSK	_RB1_1_CH167	
RL	RF 50 Ω RF 50 Ω req 5.01500	DC	Trig: Fre	e Run	vg Type: Log-Pwr	07:23:54 PM Nov 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N	
10 dB/div	Ref Offset 14. Ref 30.00 d				Mkr	3 3.719 897 GHz -31.37 dBm	Auto Tune
20.0 10.0	¥1						Center Fre 5.015000000 GH
-10.0	^2		♦ ³			DL1-13.09 dDm	Start Fre 30.000000 MH
40.0 50.0 60.0	Q ⁻						Stop Fre 10.00000000 GH
Center 5. #Res BW	1.0 MHz	X	/BW 3.0 MHz	FUNCTION	Sweep 1	Span 9.970 GHz 6.67 ms (10001 pts)	CF Ste 997.000000 MH Auto Ma
1 N 1 2 N 1 3 N 1 4 5	f (Δ) f f (Δ)	834.679 MHz 1.673 000 GHz 3.719 897 GHz	-39.52 d	Bm		=	Freq Offse
5 7 8							Scale Typ
10 11							Log Li
4 SG			m		Ko state	,	



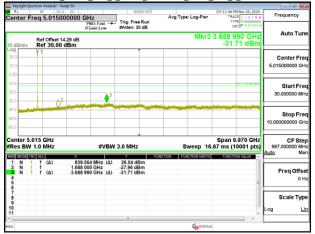




Band5_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH167300



Band5_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH168800



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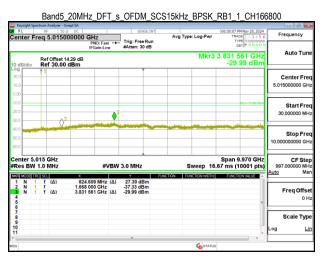


Band5 15MHz DFT s OFDM SCS15kHz BPSK RB1 1 CH166300

	sctrum Analyzer - Swe	ipt SA				
Center Fi	RF 50 Ω req 5.01500	0000 GHz	SENSE:INT	Avg Type: Log-Pwr	06:46:49 PM Nov 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWWW	Frequency
10 dB/div	Ref Offset 14. Ref 30.00 d	IFGain:Low	#Atten: 30 dB	Mkr3	3.703 945 GHz -31.84 dBm	Auto Tune
20.0 10.0	×1					Center Fre 5.015000000 GH
-10.0	\		3		0L1-13-03-dDm	Start Fre 30.000000 MH
-40.0						Stop Fre 10.000000000 GF
Center 5. Res BW	1.0 MHz	#VE	BW 3.0 MHz	Sweep 10	Span 9.970 GHz 5.67 ms (10001 pts)	CF Ste 997.000000 Mi Auto Mi
1 N 1 2 N 1 3 N 1 4 5	f (Δ) f f (Δ)	824.609 MHz (/ 1.663 000 GHz 3.703 945 GHz (/	-37.85 dBm		=	Freq Offse 0 ⊦
7 8 9 10						Scale Typ
11 <			-	STATU	· · ·	

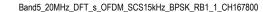
Keysight Sp RL	RF 50 Q		SENSE:INT		06:51:45 PM Nov 20, 2024	
	req 5.01500	00000 GHz		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
		PNO: Fast + IFGain:Low	#Atten: 30 dB		DET P NNNN	Auto Tun
10 dB/div	Ref Offset 14 Ref 30.00			Mkr3	3.104 748 GHz -31.62 dBm	AutoTun
.og	¥1					Center Fre
10.0						5.015000000 GH
10.0					0L1-13.03 dDm	Start Fre
20.0	A2	♦3				30.000000 MH
0.0	ala and	and a state of the second s	Contraction of the local division of the loc			Stop Fre
50.0						10.00000000 GF
	015 GHz 1.0 MHz	#VB	W 3.0 MHz	Sweep 16	Span 9.970 GHz .67 ms (10001 pts)	CF Ste 997.000000 Mi Auto Mi
200 MODE 11	C SCL f (Δ)	× 829,594 MHz (Δ) 26.11 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u> </u>
2 N 1 3 N 1 4 6	f f (Δ)	1.673 000 GHz 3.104 748 GHz (∆	-39.89 dBm) -31.62 dBm			Freq Offs 01
5 7 8 9						Scale Ty
10						Log L

	Band5_1	5MHz_DF	Γ_s	_OFDM_SCS	S15kHz_E	BPSK	_RB1_1	_CH16	8300
	ectrum Analyzer - Swep								- 6 -
Center F	RF 50 Q req 5.015000	DC 1000 GHz PNO: Fast		SENSE:INT	Avg Type:	Log-Pwr	TRA	M Nov 20, 2024	Frequency
		IFGain:Lo		#Atten: 30 dB			D	ET P NNNN	
10 dB/div	Ref Offset 14.2 Ref 30.00 di					Mkr	3 3.739 8 -32.	37 GHz 02 dBm	Auto Tune
20.0	¥1			Ť					
10.0									Center Freq 5.015000000 GHz
0.00									5.01500000 GHz
-10.0								0L1-19.09 dBm	Start Freq
-20.0			∆ ³						30.000000 MHz
-30.0	\wedge^2		Χ.	and the second second	A Distances			a lite to a state	
-40.0									Stop Fred
-50.0			-						10.00000000 GHz
-60.0									
Center 5. #Res BW		#\	вw	3.0 MHz	Sw	eep 1	Span 9 6.67 ms (1	.970 GHz 0001 pts)	CF Step 997.000000 MHz
MKR MODE T		х			ICTION FUNC	TION WIDTH	FUNCT	ON WALUE	Auto Man
1 N 2 N	f (Δ)	834.579 MHz 1.683 000 GHz	(Δ)	26.67 dBm -39.19 dBm					<u> </u>
3 N 4	f (Δ)	3.739 837 GHz	(Δ)	-32.02 dBm					Freq Offset
4 5 6								=	0 Hz
7 8 9									Scale Type
10									Log Lin
-	1 1						1	•	
MSG						🕼 STATI	15		-



Band5_20MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH167300







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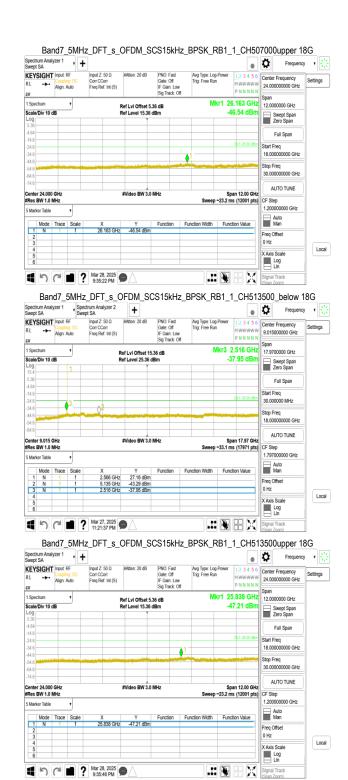
Band7 5MHz DFT s OFDM SCS15kHz BPSK RB1 1 CH500500 below 18G

pectru wept S	m Anal SA	yzer 1	, Spe Sw	ectrum Analyzer 2 ept SA	+				•	Frequenc	y ,
EYS L	ight •≠•	Input: R Couplin Align: A		Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: O			1 2 3 4 5 6 M WWWWW P N N N N N	Center Frequency 9.015000000 GHz Span	Setti
Spect		_	•		ef Lvi Offset 15.		M		.280 GHz	17.9700000 GHz	
og 5.4	0iv 10 c	18	1	R	ef Level 25.36 d	Bm		-4	0.05 dBm	Swept Span Zero Span	
.36										Full Span	
4.6									QL1-25.00 dBm	Start Freq 30,000000 MHz	
4.6			-	0 ²						Stop Freq	
i4.6 i4.6	~		-							18.00000000 GHz	
	9.015 (W 1.0 I				#Video BW 3.0	MHz	6		an 17.97 GHz s (17971 pts)	AUTO TUNE	
	r Table	WITZ .	•				aweep	-33.111	s (man pis)	1.797000000 GHz	
	Mode	Trace	Scale	х	Y	Function	Function Width	Fund	tion Value	Auto Man	
1	N		1	2.501 GHz	27.35 dBm					Freq Offset	1
2	Ν	1	f	5.005 GHz	-46.91 dBm					0 Hz	
3	Ν	1	1	14.280 GHz	-40.05 dBm					Unz	
4										X Axis Scale	10
6	_									Log	1 ⁻
9										Lin	1
	6			Mar 27, 2025 🖌	A				HX	Signal Track	il i
	- 1	(- I		11:20:37 PM	- / \					(Span Zoom)	

ectrum Anal lept SA	yzer 1	' +	·					•	Ç Freq	uency •
EYSIGHT			Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Lo Trig: Free Ru		123456 MWWWWW PNNNNN	24.000000000 G	
Spectrum		•		Ref Lvi Offset 5.3	86 dB	м		5.881 GHz	12.000000 GH	z
ale/Div 10 c g	jB			Ref Level 15.36 c	IBm		-4	6.23 dBm	Swept Spa Zero Span	
6	-								Full Span	_
6						1		DL1-25.00 dBm	Start Freq 18.000000000 G	3Hz
6 6 6		-					-		Stop Freq 30.000000000 G	GHz
6 ter 24.000				#Video BW 3.0				an 12.00 GH	AUTO TUN	E
s BW 1.0 I				#VIDEO BW 3.0	WHZ	Sweep		is (12001 pts)		H7
arker Table Mode	Trace	Scale	x	Y	Function	Function Width	Func	tion Value	Auto	
1 N 2 3	1	f	25.881 GHz	-46.23 dBm					Freq Offset 0 Hz	
4 5 6									X Axis Scale Log Lin	
5	0	2	Mar 28, 2025 9:34:59 PM					HM	Signal Track (Span Zoom)	

Band7 5MHz DET & OEDM SCS15kHz BPSK RB1 1 CH507000 below 18G

vectru vept S	im Anal SA	yzer 1	Spec Swe	ctrum Analyzer 2 pt SA	+			•	Frequency	· •[
EYS	ight •≠•	Input: RF Coupling Align: Aut		Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: C				Setting
Spectr		,			ef Lvi Offset 15			/kr3 2.585 GH	17.9700000 GHz	
og	Div 10 c	iB		R	ef Level 25.36 o	iBm		-35.30 dBn	Swept Span Zero Span	
5.4 — .36 —			-						Full Span	
.64 4.6 4.6								DL1-25.00 dB	Start Freq 30.000000 MHz	
4.6				Q2				والمحد والمراجع المراجع المراجع	Stop Freq	
4.6		-	-						AUTO TUNE	
tes B	9.015 (W 1.0	VIHz			#Video BW 3.0	MHz	Sweep	Span 17.97 GH ~33.1 ms (17971 pts	z	
Marke	r Table								Auto	
	Mode	Trace S	icale	X	Y	Function	Function Width	Function Value	Man	
1	N	1	1	2.533 GHz 5.070 GHz	27.09 dBm -44.72 dBm				Freq Offset	
3	N	1	i	2.585 GHz	-35.30 dBm				0 Hz	
4									X Axis Scale	L
5 6									Log	
	0		1 2	Mar 27, 2025 🖌	A				Signal Track	1



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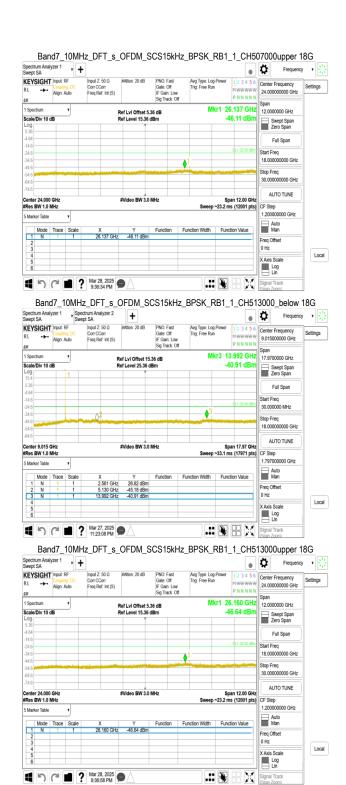


Band7 10MHz DET s OEDM SCS15kHz BPSK RB1 1 CH501000 below 18G

pectr wept	um Anal SA	yzer 1	Spe Swe	ctrum Analyzer 2 pt SA	+					Frequency	, ,
EYS L	Sight .+.			Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C			123456 MWWWWW PNNNNN	Center Frequency 9.015000000 GHz	Setting
Spec	trum		•	R	ef Lvi Offset 15.	36 dB	N		3.695 GHz	17.9700000 GHz	
	Div 10 c	iB	_	R	ef Level 25.36 d	Bm		-	40.50 dBm	- Swepi Span	
og 5.4			1							Zero Span	
36										Full Span	
4.6										Start Freg	
4.6									QL1-25.00 dBm	30.000000 MHz	
4.6		_									
4.6		a second	-	and the second	a sugar da la seconda da seconda s		in the second second	-		Stop Freq	
4.6		-	-							18.00000000 GHz	
4.6		-	-							AUTO TUNE	
nter	9.015 0	GHz			#Video BW 3.0	WHz		S	pan 17.97 GHz		
les E	BW 1.0 I	MHz					Swee	o ~33.1 r	ns (17971 pts		
Mark	er Table		•							1.797000000 GHz	
_		-					-	-		Auto	
1	Mode N	Trace	Scale	X 2.501 GHz	Y 27.41 dBm	Function	Function Width	Fun	ction Value	Man	
2	N	1	f	5.010 GHz	-42.84 dBm			-		Freq Offset	
3	N	1	1	13.695 GHz	-40.50 dBm					0 Hz	
4								_		X Axis Scale	Lo
5 6										Log	
-		_						_		l 🖂 Lin	
1	5	C	2	Mar 27, 2025 11:22:08 PM					H X	Signal Track	1
			•	11:22:08 PM >) LLI 🔼	(Span Zoom)	

ectrum An Iept SA	alyzer 1	· +	•					•	Frequency	•
EYSIGH			Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Lov Sig Track: C			1 2 3 4 5 0 M WW WW W P N N N N	24.00000000 GHz	Setting
Spectrum) dB	,		Ref Lvi Offset 5. Ref Level 15.36		N		9.432 GH 46.38 dBn	12.0000000 GHz	
0g 36				Ĭ				-	Swept Span Zero Span	
64	_	_						DL1-25.00 dBr	Full Span	
1.6	_							A1-	Start Freq 18.00000000 GHz	
1.6 1.6	1					and the subscript street			Stop Freq 30.000000000 GHz	
6 nter 24.00	00 GH7			#Video BW 3.0	MHz			ipan 12.00 GH	AUTO TUNE	
es BW 1.0	0 MHz	•		Princo Bir cio		Swee		ms (12001 pts		
Mode	-	Scale	x	Y	Function	Function Width	Eur	ction Value	Auto Man	
1 N	1	f	29.432 GHz		1 unouon	T GROOT THOSE	T UI	COOT TENC	Freq Offset	
2 3									0 Hz	
4 5 6									X Axis Scale Log Lin	
5	C	1	Mar 28, 2025 9:36:11 PM			.1	: 🔖		Signal Track (Span Zoom)	

Magn Auto Fing Ref. Int (S) IF Gam Low Provident State Provident State Spectrum • Ref Lvi Offset 15.36 dB Mkr3 2.582 GHz Span Spectrum • Ref Lvi Offset 15.36 dB -31.34 GBm Image State Spectrum • Ref Lvi Offset 15.36 dB -31.34 GBm Image State Spectrum • Ref Lvi Offset 15.36 dB -31.34 GBm Image State Spectrum • Ref Lviel 25.36 dBm -31.34 GBm Image State Spectrum • • - - - Spectrum • • - - - Spectrum • • - - - - Spectrum • • -	ectrum Ana vept SA	lyzer 1	, Spe Swe	ctrum Analyzer 2 pt SA	+				•	Ö	Frequency	,
Sectum	-+-	Coupling		Corr CCorr	#Atten: 20 dB	Gate: Off IF Gain: Low	Trig: Free Ru		MWWWW	9.01500		Settin
1 2 1 1 2 3 1 2 1 1 2 3 1 1 2 3 1 2 3 1 1 2 3 1 1 2 3 1 2 3 1 3 1 2 3 1 3 1 2 3 3 1 1 3 3 1 3 3 1 2 3 3 3 1 3 3 3 3	ale/Div 10		J							17.9700	vept Span	
0 0.1 c3 t6 cf 3 0.1 c3 t6 cf 3000 PFcc 4000 PFc 10000000 GHz 4000 PFc 10000000 GHz 4000 PFcc 10000000 GHz <	i.4 36		1							-		
0 500 Fire 100 Fire 100 Fire 100 Fire 6 5 5 5 100 Fire 100 Fire 100 Fire 6 5 5 5 5 5 100 Fire 100 Fire 100 Fire 6 5 5 5 5 5 5 100 Fire 100 Fire <td>.6</td> <td>•</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>QL1-25.00 dBm</td> <td></td> <td></td> <td></td>	.6	•	3						QL1-25.00 dBm			
Aurto Tunke Aurto Tunke se BW 1.0 MHz Sweep ~33.1 ms (1797 fpt) CF Step tarkor Table - - CF Step Mode Trace Scale X Y Function Function Width Function Width Mode Trace Scale X Y Function Function Width Function Vidte Main 1 1 1 2.531 GHz 27.06 dBm Findem Fine (Disect) Fine (Disect) 3 N 1 7 2.5070 GHz 3.31 AdBm Oftez 6.21 AdBm Oftez	6	-	-	Q								
ankorr Table + Mode Trace Scale X Y Function Function Width Function Main 1 N f 2.551 GHz 27.06 dBm Function Width Function Fee Offset 2 N f 5.070 GHz -15.14 dBm Fee Offset 0Hz		GHz			#Video BW 3.0) MHz		Sp	an 17.97 GHz	AU"	TO TUNE	
Mode Trace Scale X Y Function Function Weight Function Value 1 N 1 f 2.551.04 227.06 dbm Fileq Offset			,				Sweep	o ~33.1 m	s (17971 pts)		0000 GHz	
2 N 1 f 5.070 GHz 45.14 dBm Freq Offset 3 N 1 f 2.582 GHz -31.34 dBm 0 Hz		Trace	Scale				Function Width	Func	tion Value			
	2 N 3 N	1 1 1	f f	5.070 GHz	-45.14 dBm						set	
4 5 XAvis Scale										Lo	g	



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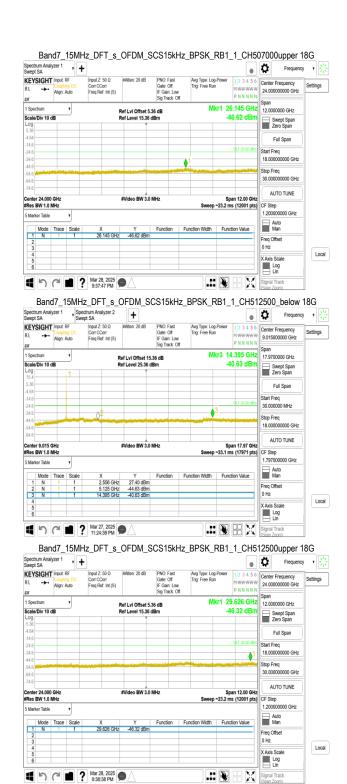
Band7 15MHz DET s OEDM SCS15kHz BPSK RB1 1 CH501500 below 18G

EYS	IGHT	lineut R				+					•	C Freq	uency •
	+	Couplin Align: A		Input Z: 50 C Corr CCorr Freq Ref: Int		an: 20 dB	PNO: Fast Gate: Off IF Gain: L Sig Track:	ow 1	Avg Type: L Trig: Free R		1 2 3 4 5 0 M WWWW P N N N N N	9.015000000 GF	
Spectr			•			I Offset 15					3.952 GH	11.0100000 011	
pg 5.4	0iv 10 c	β	1		Ref Le	vel 25.36 (dBm			-	10.09 dBn	Swept Spa	י
36												Full Span	
4.6											DL1-25.00 dBr	Start Freq 30.000000 MHz	
4.6		_							-			Stop Freq 18.00000000 G	4.
4.6												AUTO TUNE	
les Bl	9.015 (W 1.0 I				#Vid	eo BW 3.0	MHz		Swee		pan 17.97 GH ns (17971 pts		
Marker	r Table		•									Auto	2
	Mode	Trace	Scal			Y	Function	Fund	tion Width	Fun	ction Value	Man	
1	N	1	1	2.501		27.41 dBm 13.51 dBm						Freq Offset	
3	N	1	1	3.952		10.09 dBm		-		-		0 Hz	
4			- '	0.002		o.oo ubiii							= 1
5												X Axis Scale	19
6												Log	
	5	0		? Mar 27, 20 11:23:40 F	25	Λ				•		Signal Track	-

pectrum Analy wept SA		+				•	Frequency	' '
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Powe Trig: Free Run	f 123456 MWWWWW PNNNNN	24.0000000 GHz	Settings
Spectrum	•		Ref Lvl Offset 5.	36 dB		26.118 GHz	Span 12.0000000 GHz	
cale/Div 10 d	B		Ref Level 15.36	dBm		-46.86 dBm	Swept Span Zero Span	
1.64							Full Span	
24.6					1	DL1-25.00 dBm	Start Freq 18.00000000 GHz	
44.6 54.6 64.6	induscu pinai						Stop Freq 30.000000000 GHz	
74.6 enter 24.000	GH7		#Video BW 3.0	MHz		Span 12.00 GHz	AUTO TUNE	
Res BW 1.0 M			STACO BIT OLD			ms (12001 pts)		
	Trace Scal		Y	Function F	unction Width Fu	inction Value	Auto Man	
1 N 2 3	1 1	26.118 GH	2 -46.86 dBm				Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	
1	6	? Mar 28, 2025 9:37:24 PM					Signal Track (Span Zoom)	

ectrur rept S	m Anal SA	yzer 1		ctrum Analyzer 2 pt SA	+			•	Frequency	, ,
EYSI	IGHT •••	Input: RF Coupling Align: Aut		Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Of			9.015000000 GHz	Setting
Spectru		,			ef Lvi Offset 15		M	(r3 14.191 GH		
og 🗖	0iv 10 c	iB	_	Re	f Level 25.36 d	IBm		-40.21 dBr	Swept Span Zero Span	
5.4 36 64			-						Full Span	
1.6								DL1-25.00 dB	Start Freq 30.000000 MHz	
1.6	_		-	Q ²			1		Stop Freq 18.00000000 GHz	
1.6 1.6		-	-						AUTO TUNE	
	9.015 (W 1.0			1	Video BW 3.0	MHz	Sweep	Span 17.97 GH ~33.1 ms (17971 pt	z	
Marker	r Table								1.797000000 GHz	
N	Mode	Trace S	icale	Х	Y	Function	Function Width	Function Value	Man	
1	Ν	1	1	2.528 GHz	27.41 dBm				Freq Offset	
2	Ν	1	f	5.070 GHz	-43.60 dBm				0 Hz	
3 4	Ν	1	1	14.191 GHz	-40.21 dBm				Unz	1
4									X Axis Scale	10
6									Log Lin	
	5	<u>a</u>	1 2	Mar 27, 2025	Λ				Signal Track	i

Band7 15MHz DET & OEDM SCS15kHz BPSK PB1 1 CH507000 below 18G



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Band7 20MHz DFT s OFDM SCS15kHz BPSK RB1 1 CH502000 below 18G

pectrum Ana wept SA	lyzer 1	, Spe Swe	ctrum Analyzer 2 pt SA	+				•	Frequenc	, ,
EYSIGH	Input: RF Coupling Align: Aut		Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: O			123456 MWWWWW PNNNNN	9.01500000 GHz	Settings
Spectrum		ļ		ef Lvi Offset 15. ef Level 25.36 d	36 dB			2.551 GHz 33.84 dBm	11.010000 OIL	
.og	dB		R	ef Level 25.36 d	Bm		-	53.84 abm	Swept Span Zero Span	
5.36									Full Span	
24.6	3	-						QL1 -25 00 dBm	Start Freq 30.000000 MHz	
34.6 14.6 54.6	and the second	-	Q.		بر جو الارس روز			والتحو غيدانك	Stop Freq 18.00000000 GHz	
94.6 enter 9.015	011-			#Video BW 3.0				oan 17.97 GHz	AUTO TUNE	1
Res BW 1.0 Marker Table	MHz			#VIDEO BVV 3.0	mnz	Swee		ns (17971 pts)		
)							Auto	1
Mode 1 N	Trace S	Scale	X 2.501 GHz	Y 27.67 dBm	Function	Function Width	Fun	ction Value	Man	
2 N	1	f	5.020 GHz	-43.51 dBm			-		Freq Offset	
3 N	1	1	2.551 GHz	-33.84 dBm					0 Hz	
4									X Axis Scale	L
5 6									Log	
15	C' I	1 ?	Mar 27, 2025 11:25:11 PM	DA				ΗX	Signal Track (Span Zoom)	i

pectrum Anal wept SA	/	+						•	Frequency	•	
KEYSIGHT	Input: RF Coupling: I Align: Auto		Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Lo Trig: Free Ru		1 2 3 4 5 6 M WWWWW P N N N N N	Center Frequency 24.00000000 GHz	Settings	
Spectrum	,			Ref Lvi Offset 5.	36 dB	M	kr1 26	6.193 GHz	Span 12.0000000 GHz		
cale/Div 10 d	JB			Ref Level 15.36 o	1Bm		-4	6.48 dBm	Swept Span Zero Span		
1.64	_	-							Full Span		
24.6						<u>_1</u>		QL1-25.00 dBm	Start Freq 18.00000000 GHz		
44.6 54.6 64.6	-	-			an a				Stop Freq 30.000000000 GHz		
74.6 enter 24.000	047			#Video BW 3.0	MU		e.,	an 12.00 GHz	AUTO TUNE		
Res BW 1.0 Marker Table				#VILEO BW 3.0	MINZ	Sweep		s (12001 pts)	CF Step 1.200000000 GHz		
Mode		ale	x	Y	Function	Function Width	Func	tion Value	Auto Man		
1 N 2 3	1	1	26.193 GHz	-46.48 dBm					Freq Offset 0 Hz		
4 5 6									X Axis Scale Log Lin		
15	C	?	Mar 28, 2025 9:39:04 PM			.:		HX	Signal Track (Span Zoom)		

Band7 20MHz DET & OEDM SCS15kHz BPSK RB1 1 CH507000 below 18G

ectrum Ar vept SA	halyzer 1		ctrum Analyzer 2 pt SA	+				•	Frequency	y •	
EYSIGH		ng: DC	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 20 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Of	Awg Type: Log Trig: Free Ru		1 2 3 4 5 6 M WW WW W P N N N N N	Center Frequency 9.015000000 GHz	Settings	
Spectrum		•	Re	f Lvi Offset 15.	.36 dB	N		.576 GHz	Span 17.9700000 GHz		
cale/Div 1	0 dB	1	Re	f Level 25.36 d	IBm		-3	5.98 dBm	Swept Span Zero Span		
5.4 .36 .64									Full Span	1	
4.6		2						DL1-25.00 dBm	Start Freq 30.000000 MHz		
4.6			Q ²						Stop Freq		
4.6		-							18.00000000 GHz		
enter 9.01 Res BW 1.			1	Video BW 3.0	MHz			n 17.97 GHz			
wes BW 1. Marker Tab		•				Sweep	~33.1 ms	: (17971 pts)	1.797000000 GHz		
Mode	e Trace	Scale	x	Y	Function	Function Width	Eupeti	on Value	Auto Man		
1 N	1	f	2.526 GHz	27.57 dBm	T UTIODOTT	T drobott that	T GINOU				
2 N	1	f	5.070 GHz	-43.99 dBm					Freq Offset		
3 N	1	1	2.576 GHz	-35.98 dBm					0 Hz	L C	
4									X Axis Scale	L L	
6									Log		
			Mar 27, 2025						Signal Track		

Spectrum Anal	d7_20MI	F						Ö	Frequency	
Swept SA	10	•	#Atten: 20 dB	PNO: Fast	Avg Type: Log	Power		یک		<u>''</u>
KEYSIGHT RL +→-		Corr CCorr	mmudti. 20 dB	Gate: Off	Trig: Free Rut		123456 MWWWW		Frequency 0000000 GHz	Settings
ŅI .	Align: Auto	Freq Ref: Int (S)		IF Gain: Low Sig Track: Off			PNNNNN	Span	ooduu onz	
1 Spectrum	•	R	ef Lvi Offset 5.3	l6 dB	М		551 GHz		00000 GHz	
Scale/Div 10 c	B		ef Level 15.36 d			-45	i.76 dBm		wept Span	1
5.36									tero Span	
-4.64									Full Span	
-24.6							0L1-25.00 dBm	Start F		
-34.6							•1	18.000	0000000 GHz	
-54.6	in the second second	(Stop Fr		
-64.6								30.000	0000000 GHz	
Center 24.000	CH-		Video BW 3.0 /			F =0	n 12.00 GHz	AL	JTO TUNE	
Res BW 1.0 M			FVIDEO BVV 3.0 I	1112	Sweep		(12001 pts)			
5 Marker Table	•								000000 GHz	
Mode	Trace Scale	x	Y	Function	Function Width	Functi	on Value		luto Man	
1 N 2	1 1	29.551 GHz	-45.76 dBm					Freq O	ffset	
3								0 Hz		
4 5								X Axis		Loc
6									.og .in	
15	(1	Mar 28, 2025					M	Signal	Track	i
-	• •	9:39:27 PM						(Span Z	pom)	Ш
Band		lz_DFT_s_C	FDM_SO	CS15kHz	z_BPSK_F	RB1_1	_CH51	2000	_below	18G
Spectrum Anal Swept SA	/zer 1 , Sp	ectrum Analyzer 2 rept SA	+					Ö	Frequency	, ,
KEYSIGHT			#Atten: 20 dB	PNO: Fast	Avg Type: Loc	Power	123456		-	<u></u>
RL ++	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S)		Gate: Off IF Gain: Low	Trig: Free Rut		MWWWW		Frequency 000000 GHz	Settings
La .		i req rea: in (e)		Sig Track: Off			PNNNN	Span		
1 Spectrum	,	Re	ef Lvi Offset 15.	36 dB	N		789 GHz		00000 GHz	
Scale/Div 10 c	В	Re	of Level 25.36 d	Bm		-40	.57 dBm		wept Span	
15.4	1								tero Span	
-4.64									Full Span	
-14.6							0L1-25.00 dBm	Start F		
-24.6		32					01-23.00 00-	30.000	0000 MHz	
-44.6	and the second	VI.			and the second second	-		Stop Fr		
-54.6								18.000	0000000 GHz	
Center 9.015 C	247		Video BW 3.0 /	444		Sna	n 17.97 GHz	AL	JTO TUNE	
Res BW 1.0 M			FVIDEO BVV 3.0 I	NITIZ	Sweep		(17971 pts)	CF Ste		
5 Marker Table	•								000000 GHz	
Mode	Trace Scale	Х	Y	Function	Function Width	Functi	on Value		kuto Man	
1 N 2 N	1 1	2.551 GHz 5.120 GHz	27.68 dBm -42.03 dBm					Freq O	ffset	
3 N	1 f	3.789 GHz	-40.57 dBm					0 Hz		
4 5								X Axis		Loc
6									.og .in	
15	C' 🔳 '	Mar 27, 2025	Δ				HX	Signal	Track	i
	•	Mar 27, 2025 11:26:50 PM						(Span Z	oom)	
Ban	d7_20MI	Hz_DFT_s_	OFDM_S	CS15kH	z_BPSK_	RB1_	1_CH5	1200	Oupper 1	8G
Spectrum Anal	/zer 1 ,	+						Ö	Frequency	, , <u>;</u>
Swept SA KEYSIGHT		·	#Atten: 20 dB	PNO: Fast	Avg Type: Log	Power	123456			- IC
RL +++	Coupling: DC Align: Auto	Corr CCorr Freq Ref: Int (S)		Gate: Off IF Gain: Low	Trig: Free Rur		MWWWW		Frequency 000000 GHz	Settings
Ua	- ugit runo			Sig Track: Off			PNNNNN	Span		
1 Spectrum	•	R	ef Lvi Offset 5.3	l6 dB	М		359 GHz		00000 GHz	
Scale/Div 10 c	B	R	ef Level 15.36 d	IBm		-46	6.11 dBm		wept Span	
5.36									ero Span	
-4.64									Full Span	
-24.6							OL1-25.00 dBm	Start F		
-34.6					1			18.000	0000000 GHz	
-54.6		and the second	-	-		i da galica	the second state	Stop F		
-64.6	-							30.000	0000000 GHz	
			Video BW 3.0 I			•	n 12.00 GHz	AL	JTO TUNE	
-74.6	011-									
-74.6 Center 24.000 #Res BW 1.0 M	GHz NHz	1	FVIDEO BVV 3.0 I		Sweep				p	
Center 24.000	GHz AHz T	1	FVIDEO BW 3.0 P		Sweep		(12001 pts)	CF Ste	p 000000 GHz	
Center 24.000 Res BW 1.0 M 5 Marker Table	NHz	x	EVIDEO BW 3.0 F	Function	Sweep Function Width	~23.2 ms		CF Ste 1.2000	000000 GHz kuto	

req Offse 0 Hz Local X Axis Scale Log Lin 4 ら で ■ ? Mar 28, 2025
9:39:51 PM \mathbb{H} .: 💦

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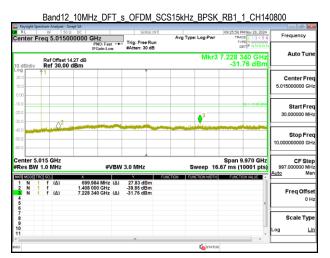
Band12 5MHz DFT s OFDM SCS15kHz BPSK RB1 1 CH140300

	ectrum Analyzer - Sw						
Center Fi	RF 50 G req 5.0150		SENSE:	Avg Type	: Log-Pwr	09:49:58 PM Nov 20, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
10 dB/div	Ref Offset 14 Ref 30.00		#Atten: 30 dE	3	Mkr3	3.739 837 GHz -31.45 dBm	Auto Tun
20.0 10.0	¥1						Center Fre 5.015000000 GH
-10.0	A2		3			611-19.09 dDm	Start Fre 30.000000 M⊦
40.0 50.0 60.0						and a fing of the comparison	Stop Fre 10.00000000 GF
Center 5. Res BW	1.0 MHz	#VI	BW 3.0 MHz		weep 16.	Span 9.970 GHz 67 ms (10001 pts)	CF Ste 997.000000 Mi Auto Mi
1 N 1 2 N 1 3 N 1 4 5	f (Δ) f f (Δ)	699.984 MHz 1.403 000 GHz 3.739 837 GHz	-38.20 dBm			=	Freq Offs 0 F
6 7 8 9 10							Scale Typ
11 sq			=		STATUS		

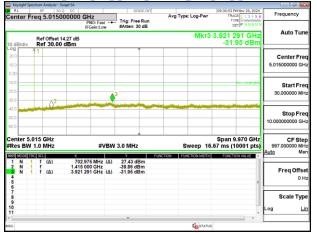
	ectrum Analyzer - Sw	ept SA	011_0		S15kHz_BPSK		
	RF 50 Ω req 5.01500	DOODO GHZ	: D: Fast +++	SENSE:INT Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	09:54:49 PM Nov 20, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N	Frequency
10 dB/div	Ref Offset 14 Ref 30.00				Mkr3	3.747 813 GHz -31.61 dBm	Auto Tun
20.0 10.0	¥1						Center Fre 5.015000000 GH
10.0 20.0 30.0	²		¢ ³			5L1~13.03 cDm	Start Fre 30.000000 MH
40.0 							Stop Fre 10.00000000 GH
	1.0 MHz		#VBW	3.0 MHz		Span 9.970 GHz 5.67 ms (10001 pts)	CF Ste 997.000000 MH Auto Ma
1 N 1 2 N 1 3 N 1 4 5	f (Δ) f (Δ) f (Δ)	705.966 1.415 000 3.747 813	GHz	26.37 dBm -40.00 dBm -31.61 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offs
7 8 9							Scale Typ
10							Log L

Ba	ar	۱d	12_	_5MHz_DF	[_s_OFDM	_SCS15kHz	_BPSK_RB	1_1_	_CH142700	

	um Analyzer - Swept SA					
Center Fre	RF 50 Ω DC	GH7	SENSE:INT	Avg Type: Log-Pwr	09:58:15 PM Nov 20, 2024 TRACE 1 2 3 4 5 6	Frequency
	Ref Offset 14.27 dB Ref 30.00 dBm	PNO: Fast H IFGain:Low	Atten: 30 dB		3 3.759 777 GHz -31.13 dBm	Auto Tune
20.0 X	1					Center Free 5.015000000 GH
-10.0 -20.0 -30.0	Q ²	•	3		Dict -10 09 dDm	Start Free 30.000000 MH
-40.0 -50.0 -60.0						Stop Fre 10.000000000 GH
Center 5.01 #Res BW 1.	.0 MHz	#VB	W 3.0 MHz	Sweep 1	Span 9.970 GHz 6.67 ms (10001 pts)	CF Stej 997.000000 MH Auto Ma
1 N 1 2 N 1 3 N 1 4 5	f 1.42	1.948 MHz (Δ 7 000 GHz 9 777 GHz (Δ	-38.20 dBm		=	Freq Offse 0 H
6 7 8 9						Scale Typ
11						Log <u>Lir</u>
MSG				To STAT	us	



Band12_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH141500



Band12_10MHz_DFT_s_OFDM_SCS15kHz_BPSK_RB1_1_CH142200



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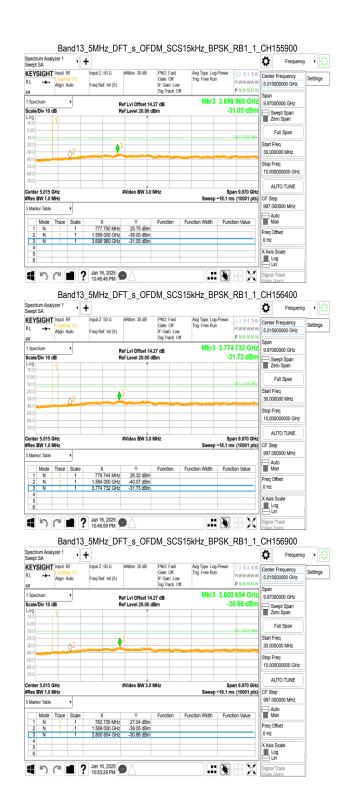
Band12 15MHz DFT s OFDM SCS15kHz BPSK RB1 1 CH141300

							r - Swept SA				
Frequency	09:10:49 PM Nov 20, 2024 TRACE 1 2 3 4 5 6	Type: Log-Pwr		SENSE:		CH-	50 Q DC	RF			
	DET P NNNN	Type: Log-1 m	in	Trig: Free Ro #Atten: 30 dl		PNO: Fast IFGain:Lot	5000000	5.01	riet	iter	Cer
Auto Tun	3.586 299 GHz -31.89 dBm	Mkr3					et 14.27 dB 00 dBm			B/div	10 d
				Ť			oo abiii		¥1		Log
Center Fre											20.0
5.015000000 GH										1	10.0
					_				-		0.00
Start Fre	0L1-19.09 dBm	_			-	_		-	-		10.0
30.000000 Mi					▲3				-	1	-20.0
	the state of the second state of the			a second statements	Υ	and the latest	2	. 0			-30.0
Stop Fr	and the Delay of the day of the day						and they are been as		-	-	-40.0
10.00000000 G					-	-		-		1	-50.0
					-						-60.0
CF Ste 997.000000 Mi	Span 9.970 GHz .67 ms (10001 pts)	Sweep 16		3.0 MHz	VBW	#\		5 GHz MHz			
Auto M	FUNCTION VALUE	FUNCTION WIDTH	FUNCTION	Y			x	CLI	TRCI S	MODE	MKR
				27.63 dBm -38.63 dBm		9.984 MHz 3 000 GHz		f (Δ)	1	N	1
Freq Offs				-38.63 dBm -31.89 dBm		6 299 GHz		f (Δ)	1	N	3
01	=										4
Scale Typ											78
Log L											9 10 11
					-			_		_	i i
		K STATUS									ISG

	_1_CH14	<u>_ivbi_</u>		300 I JKI		1_6						
@ @ _									nalyzer - Swi		ht Spec	
Frequency	RACE 1 2 3 4 5 6	TRA	be: Log-Pwr		SENSE:I		Hz NO: Fast	DC	50 Q	RF eq (r Fr	nte
Auto Tun	105 GHz		Mkr3		#Atten: 30 dE	N	Gain:Lov		Offset 14	Baf		
	2.09 dBm	-32.							30.00		div	dB/
Center Fre 5.015000000 GH										1	,	
Start Fre 30.000000 M⊦	0L1 -13 00 dDm				3				A2			0
Stop Fre 10.000000000 GF									Q-			0
CF Ste 997.000000 Mi Auto Mi	n 9.970 GHz (10001 pts)	6.67 ms (1			3.0 MHz	/BW	#V			1.0 N	r 5.0 BW 1	es
	CTION VALUE ·	f FUNCT	UNCTION WOTH	FUNCTION	27.82 dBm	(A)	B1 MHz	X 700.01	(Δ)		DE TRI	a Mo N
Freq Offs 0 F	E				-40.23 dBm -32.09 dBm		00 GHz	1.415 0	(Δ) (Δ)	ţ	1	N
Scale Typ												
Log L												
		15	STATUS			-	-	-		-	-	

Rand12 15MHz DET & OEDM SCS15kHz BDSK DB1 1 CH1/1500

	Band12_15	MHz_DF	T_s_OFDN	I_SCS15k	Hz_BPSK	_RB1_1_CH14	1700
CO RL	RF 50 0 DC reg 5.01500000		SENS	Avg	Type: Log-Pwr	09:19:11 PM Nov 20, 2024	Frequency
10 dB/div	Ref Offset 14.27 d Ref 30.00 dBm				Mkr3	3.203 451 GHz -32.47 dBm	Auto Tune
20.0 10.0	*1						Center Freq 5.015000000 GHz
-10.0 -20.0 -30.0	2	∮ ³				041-19-09 dDm	Start Freq 30.000000 MHz
-40.0 -50.0 -60.0							Stop Freq 10.00000000 GHz
Center 5. #Res BW	1.0 MHz	#V	BW 3.0 MHz	FUNCTION		Span 9.970 GHz .67 ms (10001 pts)	CF Step 997.000000 MHz Auto Man
1 N 1 2 N 1 3 N 1 4 5	1 f (Δ) 1 f 1.	701.978 MHz 417 000 GHz 203 451 GHz	-38.96 dBr	n	FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz
7 8 9 10 11							Scale Type
MSG					S tatus	•	



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Settings

- 22

Settings

SG

Spectrum An Swept SA	alyzer 1	•	+						Frequency	
			Input Z: 50 Ω Freq Ref: Int (S)	WAtten: 30 dB PNO: Fast Aug Type: Log-Power 12 3 4 5 Gete: Off Trig: Free Run WWWWW IF Gain: Low Sig Track: Off P N N N N		**** N N N	Center Frequency 5.015000000 GHz	Settings		
1 Spectrum Scale/Div 10	Span 9.97000000 GHz									
Log 20.0	Y1	_		ef Level 30.00 d			-31.66		Swept Span Zero Span	
10.0 0.00		_							Full Span	
-10.0				3			0(1-13	44 dBm	Start Freq 30.000000 MHz	
-30.0 -40.0 -50.0		0 ²	No. of Concession, Name						Stop Freq 10.000000000 GHz	
-60.0	S GH7			#Video BW 3.0	MHz		Span 9.97	10 GH7	AUTO TUNE	
#Res BW 1.1 5 Marker Tabl	0 MHz	•				Sweep	~18.1 ms (1000		CF Step 997.000000 MHz	
Mode	Trace	Scale	Х	Y	Function	Function Width	Function Val	ue	Man	
1 N 2 N 3 N	1	1 1	790.711 MHz 1.586 000 GHz 3.713 915 GHz	26.37 dBm -40.68 dBm -31.66 dBm					Freq Offset 0 Hz	
4 5 6									X Axis Scale	
1 5	C		Jan 16, 2025 11:51:56 PM					X	Signal Track	



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