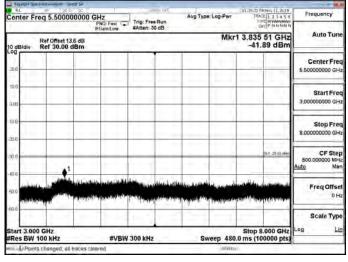
# Report No.: E2/2019/90045 Page 370 of 645



#### Band5\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 B WWWWWWW F FAN FAN FA	TRAC	Log-Pwr	Avg Type	Free Run	1000	GHz PNO: Fast C	reg 1.515000000	Center F			
Auto Tur	Ref Officet 13.5 dB Mkr1 832.086 2 MHz 10 dBidw Ref 30.00 dBm 25.34 dBm 25.34 dBm											
Center Fre					-		•1		20.0			
Start Fre 30.000000 MH					-				0.00			
Stop Fre 3.00000000 GH									10.0			
CF Ste 297.000000 MH Auto Ma	DC1-29-51-094						1		30.0			
Freq Offs 0 H		A sector de la composition de	nd an eachda gangagaeth			and designed a		thursdandiand				
Scale Typ		171	1-1			1			40.0			
Log L	.000 GHz 0000 pts)	Stop 3 7 ms (10	eep 286	SW	Hz	SW 300 KH	#VB		Start 0.03 Res BW			

#### Band5\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



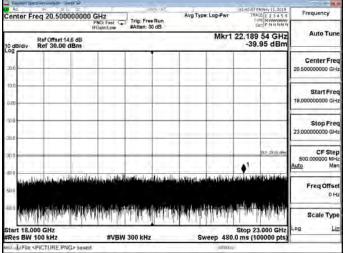
#### Band5\_10MHz\_QPSK\_1\_0\_8000-13000 MHz

AL enter Freq 10.50000000	O GHZ PNO: Fast Trig: Freel	Avg Type: Lo Run	D-Pwr TITAC	1 2 3 4 5 6 P 10 10 10 10	Frequency						
Ref Offset 13.5 dB         Mkr1 8.931 01 GHz           Ref Offset 13.5 dB         44.0 mkr1 8.931 01 GHz           OdB/div         Ref 2.22 dBm											
00					Center Fre 10.50000000 GH						
ο ο ο					Start Free B,00000000 GH						
σ <b>0</b>					Stop Free 13.00000000 GH						
00				(K1-5) (B) (B)(	CF Step 500.000000 MH Auto Ma						
an and a statistication for a statistication of the statistication	alan an Longer, hu dan sa an Iri Marangan Managar an Angara		Same game	AND AND AND A	Freq Offse 0 H						
an 1000 GHz Res BW 100 kHz	#VBW 300 kHz		Stop 13	000 GHz	Scale Type						
VES BW 100 KHZ	9 3 F G F C 16 67	Swee	p 480.0 ms (10	oudu pts							

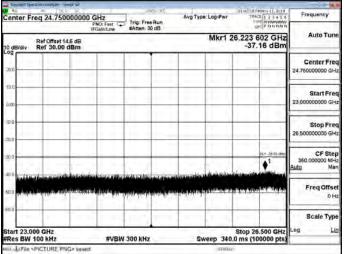
#### Band5\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

Center F	reg 15.500	p	HZ VO: Fast G	100.00	e Run 0 dB	Avg Type	Log-Pwr	TRA	CE 1 2 3 4 5 6 FE MYWWWWW ET P NA FAN N	Frequency			
10 dB/div	Ref Offset 13.5 dB Mkr1 13.658 26 GHz 0 dB/div Ref 30.00 dBm -42.15 dBm												
20.0										Center Fred 15.50000000 GH			
0.00										Start Free 13,000000000 GH			
100										Stop Fre 18.00000000 GH			
30.0	.1			1					DK1-2455-004	CF Ster 500.000000 MH Auto Ma			
50.0	Hand Berthaman				and an and		alliantikska agnoganjy	a Walania	-	Freq Offse 0 H			
Start 13.0			#VBM	300 kHz		Sw	eep 480	Stop 1: 0 ms (1	8.000 GHz 00000 pts)	Scale Type			

## Band5\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band5\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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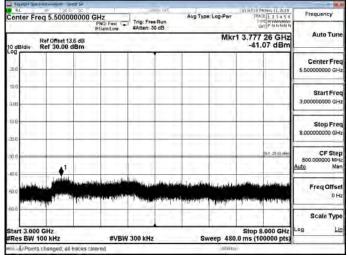


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#### Band5\_10MHz\_QPSK\_1\_0\_30-3000 MHz

	MNOV15,2019	01144-10 D						Sweet and	tyrigi ( Special room in any per-
Frequency	E 123456	TRAC	Log-Pwr	Avg Type	Run	1000	Hz PNQ: Fast G		nter Freg 1.515
Auto Tuni	9 8 MHz 81 dBm		Prospicicow	Ref Offset 13.5 dB					
Center Fre 1 515000000 GH	1						"		-
Start Fre 30.000000 MH									
Stop Fre 3.00000000 GH									
CF Ste 297.000000 MH Auto Ma	001-2151-004			1					
Freg Offse 0 H	-		and a state of the		-	and the second	No.	and and	
Scale Typ	.000 GHz	Stop 3	eep 286	Sw		V 300 kH	#VBI	and the second sec	rt 0.030 GHz es BW 100 kHz

#### Band5\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



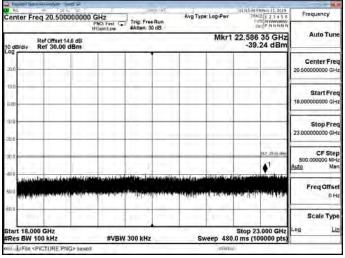
#### Band5\_10MHz\_QPSK\_1\_0\_8000-13000 MHz

	ALU PMMO, 11, 2019					भेदे हर	and managements	Fagingit Se					
Frequency	TRACE 1 2 3 4 5 6	Pwr	Avg Type: Log-	Free Run	Trig: Fre	PNO: Fast (	req 10.50000						
Auto Tun	IFBainLow #Atten: 30 dB Der P nonnon												
	-42.53 dBm												
Center Fre								-og					
10.50000000 GH				-				20.0					
Start Fre	-			-	-			10.0					
B,000000000 GH	-	1						0.00					
Stop Fre	-			-	-		-	10.0					
13.00000000 GH						10.01		30.0					
CF Ste	001-23-51-054							30.0					
500.000000 MH Auto Ma	10.25	- 01	1.	11.1				400					
FregOffse	an the law and a		al all designed to a	and the state	in the section	and the second second second	Sumain Aund	July of Cale					
0H	and a second second	madautana	line a strends	and more black	in and sense	the wat the street with	institute a stitute	50.0 WWW					
	- and to the same			- de les a	The second	the work of the stand of the	-1	10.0					
Scale Typ	2.122.10					1.1							
Log	op 13.000 GHz s (100000 pts)	Sto 480.0 m	Sweep	Hz	BW 300 kH	#VB		Start 8.00 Res BW					
	o trettee brok	at a the					PICTURE PNG>	N. 1					

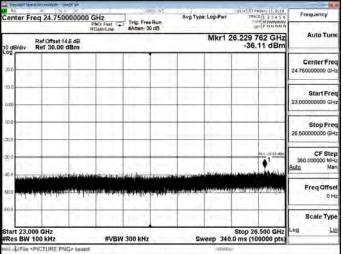
#### Band5\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

	M PMNOV 11. 2019	01	T.	cie (NI)			ATTA MA	- IX	RL			
Frequency	TRACE 121456	Pwr	vg Type: Log-P		Trig: Free	Hz VO: Fast G	p	q 15.500	nter Fr			
Auto Tun	Ref Offset 135 dB 0 dB/dw. Ref 30.00 dBm											
Center Fre 15.50000000 GF								1	0			
Start Fre 13,00000000 GH									0			
Stop Fre 18.00000000 GH												
CF Ste	151-3151-000						_					
500.000000 MH Auto Ma						1.11						
Freq Offse 0 H	and a special		nan kanad	1 - H - H - H -	and shaded	ng tang tang ta Katalang ta	14.96 x 1354	A La Playour	-			
Scale Typ	o 18.000 GHz	St					-	0 GHz	rt 13.0			
	(100000 pts)				300 kHz	#VBW	_	OO KHZ	1			

#### Band5\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band5\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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#### Band7\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	MNov 11, 2019 CE 1 2 3 4 5 6 CE P MN/SN N	TRA	Log-Pwr	Avg Type	e Run 30 dB	Trig: Fre	Z VO: Fast G	P	Freq 1.5150	Center F		
Auto Tune	Ref Offset 14 dE Mkr1 2,500 411 3 GHz geldidv Ref 30.00 dBm 24.79 dBm											
Center Free 1 515000000 GH		•1		-						20.0		
Start Free 30.000000 MH										0.00		
Stop Fre 3.00000000 GH										10.0		
CF Stej 297.000000 MH Auto Ma	151-2151-00H							1		30 0		
Freg Offse 0 H					land and		denionfi	anti antis	watuutahaha	-40 0 50.0 catalo		
Scale Type	0000 GHz	Stop :				300 kHz		10,211,1	30 GHz / 100 kHz	start 0.03		

#### Band7\_5MHz\_QPSK\_1\_0\_3000-8000 MHz

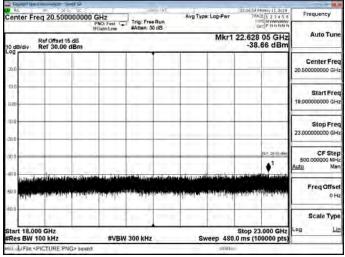
nter Freq 5.500000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	02.3617 PMNoy 11, 2019 TRACE 1 2 7 4 5 6	Frequency							
Ref Offset 14 dB B/div Ref 30.00 dBm	Ref Offset 14 dB Mkr1 3.653 91 GHz										
				Center Fre 5.500000000 GH							
				Start Fre 3,000000000 GH							
			_	Stop Fre 8.000000000 GH							
			(X1-2) 55 min	CF Ste 500.000000 MH Auto Ma							
And the state of t	1		1997 - 1997 -	Freg Offso 0 F							
rt 3.000 GHz s BW 100 kHz	#VBW 300 kHz	Sweep 480.0	Stop 8.000 GHz ms (100000 pts)	Scale Typ							

## Band7\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

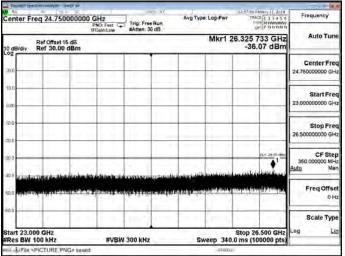
Equal for a moving the same share and share a second share a secon	GHz PNO: Fast Trig: Free Run Katien: 30 dB	Avg Type: Log-Fwr	02.56.10 FMM5/11, 2019 TRACE 1 2 3 4 5 6 10 E M WWWWW Get P fan fan h	Frequency						
0 dB/div Ref 30.00 dBm - 41.67 dBm - 41.67 dBm										
				Center Fre 10.50000000 GH						
0.00				Start Fre 8,00000000 GH						
100				Stop Fre 13.00000000 GH						
20.0			001-3151-054	CF Ste 500.0000000 MH Auto Ma						
	and the second	ah dan bahasa kuta kuta kuta kuta kuta kuta kuta kut	and the designation	Freq Offse 0 H						
Res BW 100 KHz	#VBW 300 kHz	Sween 480	Stop 13.000 GHz 0 ms (100000 pts)	Scale Type						

	02-56/2 PMMOy 15, 2019						na 20	2 minimized and the line				
Frequency	TRACE 1 2 7 4 5 6	Pwr	Avg Type: L	Run	Trig: Free	O: Fast	p	eq 15.5000	enter Fr			
Auto Tune	Ref Offset 14 dB Mkr1 17.518 55 GHz 10 dB/div Ref 30.00 dBm - 41.35 dBm											
Center Fred 15.50000000 GH:									200			
Start Fred 13.000000000 GH									10 0 3 00			
Stop Free 18.00000000 GH									10 0 30.0			
CF Step 500.000000 MH Auto Mar	11 1		-						10 0			
Freq Offset 0 Hi	televenting and	la abelia	in deside	initia atticio El tra pago		ar glige soon		and an Astron	50.0			
Scale Type	0 18.000 GHz	490.0			200 644	#VEW			tart 13.00			
201 Волона Соба (Долана (до. 50) и дойной боло вод области (до дойной боло вод области (до дойной боло боло обл 101 577 - хутнустика ступер (до 1941) и стако бра Силански куранија (до 1970) области 101 - Соба Силански (до 1970) и стако бра Силански куранија (до 1970) области 101 - Соба Силански (до 1970) и стако силански (до 1970) #VBW 300 kHz Sweep 480.0 ms (100000 pts) NG2- bavect	#VBW 300 kHz Sweep 480.0 ms	#VBW 300 kHz Sweep				WG> saved		00 kHz	sao tart 13.00 Res BW 1			

#### Band7\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band7\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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### Band7\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	ET P NN NN N	TRAC	Log-Pwr	Avg Type		1000	HZ PNO: Fast G	000000 G	Freq 1.5150	RL		
Auto Tun	Ref Offset 14 dB Mkr1 2,532 814 3 GHz 0 dB/div Ref 30.00 dBm 23.42 dBm											
Center Fre		•1								20.0		
Start Fre 30.000000 MH										0.00		
Stop Fre 3 00000000 GH										10.0		
CF Ste 297.000000 MH Auto Ma	0.1-2151 <i>0</i> 94	-		-						30 0		
Freq Offse 0 H	line angalani Mangapanan		Sudaukti.				a compare de la política.	in the first	in and the same	-100 - 1stud		
Scale Typ	.000 GHz	Stop 3							110	start 0.03		

## Band7\_5MHz\_QPSK\_1\_0\_3000-8000 MHz

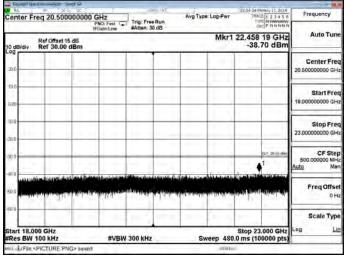
Keyngill (perdinansishdre inepdia) All		- 140	102.5	148 PMMoy 11, 2019	
Center Freq 5.500000000 G		Avg Type Run	Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 dB Ref 30.00 dBm	Posificione existencio	ub		546 71 GHz 40.75 dBm	Auto Tun
20.0					Center Fre 5.500000000 GH
0.00					Start Fre 3,000000000 GH
10.0 So.0					Stop Fre 8.00000000 GH
300 400				001-3155-094	CF Ste 500.000000 MH Auto Ma
		(	na di mana ana ana ana ana ana ana ana ana an	Mana and an Permiter Play	Freq Offsi 0 F
and 100 GHz Res BW 100 kHz	#VBW 300 kHz	Sw	Streep 480.0 ms	op 8.000 GHz ; (100000 pts)	Scale Typ

## Band7\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

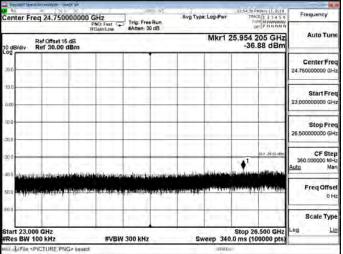
Feyniget from a new samely are in organ Sal	-		1_0_0000 1		
Center Freq 10.5000000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	02-51 AF PMMoy 15, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 dB	Auto Tune				
0 dB/div Ref 30.00 dBm				-42.19 dBm	-
20.0		1 1 1			Center Fre 10.50000000 GI-
0.00					Start Fre B,000000000 GH
10.0					Stop Fre 13.000000000 GH
30.0		1.1.1		(S.1 - 29 55 mm	CF Ste
400		1000	1.1.1.1.1.1.1	121122	500.000000 MP Auto Mi
50.0 Michael Concession and Michiel S0.0 Michael (Concession)	linter a bank and			and and a section of the local	Freq Offs 0 F
20.0			-		Scale Typ
Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	Sween 480	Stop 13.000 GHz	
UFILE SPICTURE PNG> seve	435.64	574 HILL	Sheep 400		

Center Fi	eq 15.500	p	HZ VO: Fast G	LAN	Run	Avg Type	Log-Pwr	TRA	MM5/11.2019 2 1 2 3 4 5 6 - MWWWWWW	Frequency
Ref Offset 14 dB Mkr1 13.607 26 GHz 10 dB/div Ref 30.00 dBm -41.22 dBm										
20.0										Center Freq 15.50000000 GHz
0.00										Start Freq 13,00000000 GHz
100 										Stop Fred 18.00000000 GH:
-30 0	•			-					051-2955 am	CF Step 500.000000 MH Auto Mar
50.0	and hands	anited with		alitikation montrappie	Carlos Inde	paparanty and a solution	al destates			Freq Offset 0 H:
Start 13.0		-	#VBM	300 kHz		Sw	eep 480	Stop 18	.000 GHz	Scale Type

#### Band7\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band7\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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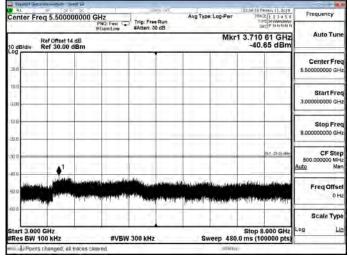
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#### Band7\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E N WWWWWW F N N N N N	TRAC	Log-Pwr	Avg Typ	ee Run 30 dB	Trig: Fre	Hz PNO: Fast Ca	 Freq 1.5150	Center F
Auto Tun	59 GHz 80 dBm		Mkr1 2.					Ref Offset 1 Ref 30.00	0 dB/div
Center Fre 1 51500000 GH		• <sup>1</sup>		-	-				20.0
Start Fre 30.000000 MH									0.00
Stop Fre 3 00000000 GH									10.0
CF Ste 297.000000 MH Auto Ma	(K) (3) (3) (8)				-				30 0
Freq Offse 0 H	i i i i i i i i i i i i i i i i i i i					es mides		 ortheaster	50.0 (140)
Scale Typ	- 1		in d			1.00	<i>(1111111111111</i>	 a second of the	80.0 <b>M</b>
Log Li		Stop 3 7 ms (10	veep 286.	S	z	300 kH	#VBW	 30 GHz 100 kHz	Start 0.03 Res BW

#### Band7\_5MHz\_QPSK\_1\_0\_3000-8000 MHz

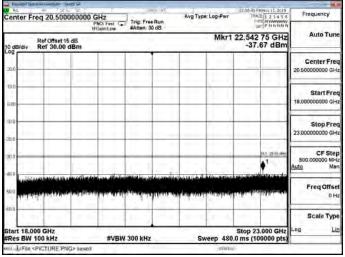


#### Band7\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

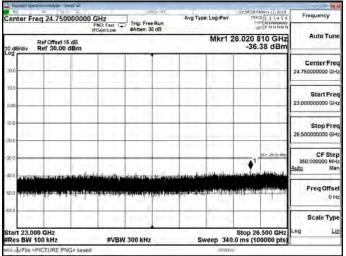
Center Freq 10.50000000 G		Run	Type: Log-Pwr	12-54 U PMMoy 11, 2019 TRACE   2 7 4 5 6 I III M WWWWW DET P MINIMIN	Frequency	
10 dB/div Ref 30.00 dBm			Mkr	8.387 90 GHz -42.72 dBm	Auto Ture	
20.0					Center Free 10.500000000 GH	
10.0 0.00					Start Fre 8,000000000 GH	
10.0					Stop Fre 13.00000000 GH	
30 0 <b>1</b>				(K1-3) 51 dby	CF Ste 500.000000 MH <u>Auto</u> Ma	
200 Associate Manifest International Transmission of part of the second	iner fred and the future	a shartan dar	nini <sup>3</sup> leinnyhelli Per Pernanet	and the state of the	Freq Offse 0 H	
*00 Start 8.000 GHz #Res BW 100 kHz	#VBW 300 kHz			Stop 13.000 GHz 0 ms (100000 pts)	Scale Type	

	and the second second						AC RITH	unionlype S	
Frequency	A PMMoy 11, 2019 RACE 1 2 3 4 5 6 Int Manual P NA PM N	02:54	Avg Type: Log-Pwr	Run	Trig: Free	NO: Fast	p	q 15.500	nter Fr
Auto Tun	2 90 GHz	kr1 17 51	Mkr	dB	#Atten: 30	Sain:Low	16		-
	1.48 dBm		100			_		Ref Offset 1 Ref 30.00	dB/div
Center Free	1.1				11.14	1-1-1			1
15.50000000 GH	1 1 1				-	1			0
Start Free			-	-	-		-	-	0
13,000000000 G	100	1	_	-	-	-		-	0
Stop Fre 18.00000000 GH	11.14	1							ò.
									0
CF Ster	001-29-51-004						1.11		0
500.000000 MH Auto Mar	1	1112			11.1	1.11		1.1.1	112
FregOffse	- dealer internet	and belle	marker have an	المساعدين	miliette	-	-		o Harris
OH	antes forday	and a straight	- Particulation	The light	-	Prove Dellower	Processile.	Reiningtone	C Harris
Scale Type			-		-			-	0
	18.000 GHz	Stop		_					urt 13.00
	100000 pts)	480.0 ms (		-	300 kHz	#VBW		CTURE PN	es BW

#### Band7\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band7\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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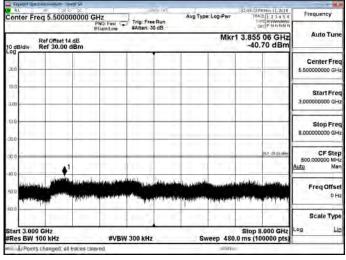
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## Band7\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.5150000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	12-55:13 EM May 11, 2019 TRACE 1 2 3 4 5 6 TREE MANAGEMENT	Frequency
Ref Offset 14 dB 10 dB/div Ref 30.00 dBm			Mkr1 2.	500 589 5 GHz 24.12 dBm	Auto Tune
0.0		1		•1	Center Free 1 515000000 GH
0.00					Start Free 30.000000 MH
10.0					Stop Fre 3.00000000 GH
20.0				001-2050-004	CF Step 297.000000 MH Auto Ma
400 500 settimetiler monetaine et dive					Freq Offse 0 H
start 0.030 GHz		300 kHz	Sweep 286.	Stop 3.000 GHz 7 ms (100000 pts)	Scale Type

## Band7\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



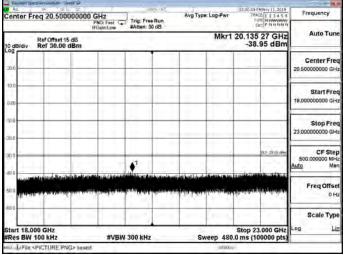
## Band7\_10MHz\_QPSK\_1\_0\_8000-13000 MHz

Frequency	ACE 1 2 3 4 5 6	Pwr	Avg Type: Lo	e Run	Trig: Fre	GHz PNO: Fast G	00000000	req 10.50	Center I
Auto Turk	55 06 GHz dBm	Mkr1 3				II STATISTICS IN	t 14 dB	Ref Offse Ref 30.0	10 dB/div
Center Free 10.50000000 GH									20.0
Start Free B.000000000 GH									0.00
Stop Free 13.00000000 GH									10.0
CF Step 500.000000 MH Auto Mar	001-3151-004		-						-30 0
Freq Offse 0 H	-		Aline (Marked Market (Market)		nt dia alta	ninina an		nite and the second	50.0
Scale Type	13.000 GHz						1.00	11	Start 8.0
	(100000 pts)	480.0 m	Swee	-	300 kHz		<u></u>	100 kHz	Res BW

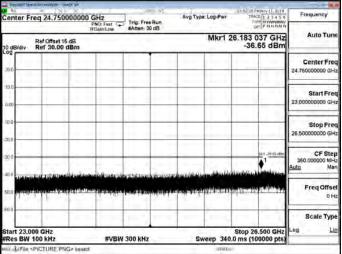
#### Band7\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

Center F	req 15.500		GHZ PNO: Fast C	10000	Run	Avg Type	Log-Pwr	TRA	MAD, 15, 2018 2 1 2 3 4 5 6 1 2 HYMMMA ET F MARANA	Frequency
10 dB/div	Ref Offset 1- Ref 30.00						Mkr1		10 GHz 27 dBm	Auto Tune
20.0			1							Center Fred 15.50000000 GHz
0.00										Start Fred 13,00000000 GH:
100										Stop Free 18.00000000 GH
30 0					_				51.3151.00m	CF Step 500.000000 MH Auto Mar
50.0	a data da a da a da a da a da a da a da	an ab Abrania An April An An	an analysis a	ana than Yuunuya)		- Allering	i dei ort de	A TANA	Contine ile	Freq Offse 0 H
Start 13.0			#VBV	V 300 kHz		Sw	veep 480		3.000 GHz	Scale Type

## Band7\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band7\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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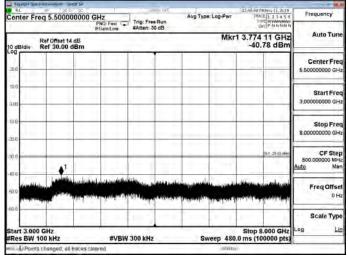
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## Band7\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	1 2 3 4 5 6 1 2 3 4 5 6 MWWWWWW F N N NN N	TRAC	Log-Pwr	Avg Typ	Free Run	Trig: Fr	HZ PNO: Fast G		reg 1.5150	Center F		
Auto Turk	8 8 GHz 42 dBm	10 dB/dk Ref 30.00 dBm 24.42 dBn 24.42 dBn										
Center Free 1 515000000 GH	-	¢1		-	-					20.0		
Start Free 30.000000 MH										0.00		
Stop Fre 3.00000000 GH										10.0		
CF Step 297.000000 MH Auto Ma	001-29-51-094			-						30 0		
Freq Offse 0 H	a bilan da Antonia						and the same		contra table			
Scale Type		Stop 3 7 ms (10	eep 286.			V 300 kH		diam'r a'r	30 GHz 100 kHz	Start 0.0		

## Band7\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



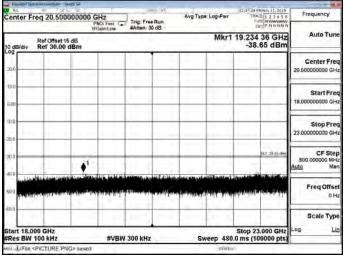
## Band7 10MHz QPSK 1 0 8000-13000 MHz

0 GHz	Trig: Free Run	Avg Type: Log-Pwr	02.31 00 PMMoy 11, 2019 76A22 1 2 3 4 5 6 1175 M WWWWWW	Frequency					
IFGeinLow #Atten: 30 dB Mkr1 9.827 27 GHz 10 dB/div Ref 30.00 dBm -42.28 dBm									
				Center Free 10.50000000 GH					
				Start Fre B,000000000 GH					
				Stop Fre 13.00000000 GH					
•			101-3151-894	CF Ste 500.000000 MH Auto Ma					
and the state of the	n methol on topolar enymentereterijeen	A real sector from a real of	haran ya matala ta aya ya ma	Freq Offse 0 H					
			Stop 13.000 GHz	Scale Typ					
	an and a start	0 GH2 PROFease Trig: Free Run #Atten: 30 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	Avg Type:Log-Pur HPG: Inst. Trig: Free Run #Aten: 30 dB Mkr Mkr 1 1 1 1 1 1 1 1 1 1 1 1 1	0 GH2 PHO: Fare PHO:					

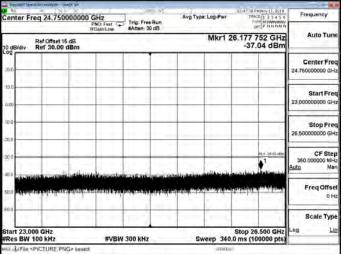
#### Band7\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

	and the	-			-			pr SA	minimite int		
Frequency	E 1 2 3 4 5 6	TRAC	Log-Pwr	Avg Type	Run	Trig: Free	O: Fast	PA	q 15.5000	ter Fre	
Auto Tun	1.430 33 GHZ	Mkr1 17.498 59 GHz								tef Offset 14	F
	12 dBm	-42.				_		Bm	tef 30.00 d	B/div R	
Center Fre 15.50000000 GH		1 1			-			_	-	1	
Start Fre 13,000000000 GH											
Stop Fre 18.00000000 GH										12	
CF Ste	DE1-2155-000				1.7					-	
500.000000 MH Auto Ma	1	-	10.0		1.1		1.1		1	12.	
Freq Offse 0 H	a dan sedicara plapatoy kalar	-	A Malanta A	and the second	d detter		naturi kiralı Manazarta			the state of the	
Scale Typ				-			-				
Log Li	.000 GHz 0000 pts)	Stop 18	eep 480	Sw	-	300 kHz	#VBW			t 13.000 s BW 10	
	tran brok		1000 av		-			bayed s	CTURE PNC		

#### Band7\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band7\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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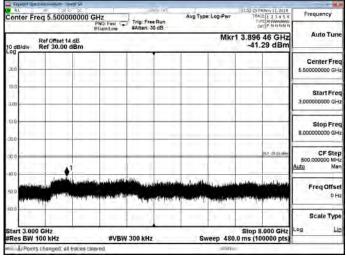
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### Band7\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.515000000 GH	MO: East	Trig: Free R	lun	Avg Type	Log-Pwr	02:52:4	6 FMM5/11.2019 HACE 1 2 1 4 5 6 HET P TANFARM	Frequency
Ref Offset 14 dB	CHICKNY .				Mkr1 2		584 1 GHz 4.84 dBm	Auto Tune
200						•1		Center Free 1 515000000 GH
0.00								Start Free 30.000000 MH
(00 				_				Stop Free 3.00000000 GH
30.0		-		-	-		(XI 3155 din	CF Step 297.000000 MH Auto Ma
an o Sin O and the land and a single full strategy	a a cue a trans			and colde				Freq Offse 0 H
20 0 0000 0000 0000 0000 0000 0000 000	#VBW 3				eep 286	Stop	3.000 GHz 100000 pts)	Scale Type

## Band7\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



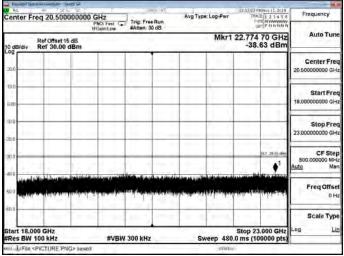
# Band7\_10MHz\_QPSK\_1\_0\_8000-13000 MHz

BL I	arrient for an and the second			- 047	- D		02:51:38 PM Noy		Frequency
Center Fred	10.500000000	GHZ PNO: Fast G	Trig: Free	Run dB	Avg Type	Log-Pwr	TRACE   TIPE MY DET P	23456 NNNNN	Frequency
O dB/div R	ef Offset 14 dB ef 30.00 dBm					Mkr1	11.022 43		Auto Tuni
20.0									Center Free 10.50000000 GH
0.00									Start Fre B.000000000 GH
100									Stop Fre 13.00000000 GH
300							xr.	29.55 mm	CF Ste 500.000000 MH <u>Auto</u> Ma
50.0	and something in a south			- again	and adda	1	tradition of the second		Freq Offse 0 H
to 0							Stop 13.00	0 GHz	Scale Type
Res BW 10	CTURE PNG> seved	#VBW	300 kHz	-	SV	veep 480	.0 ms (10000	0 pts)	

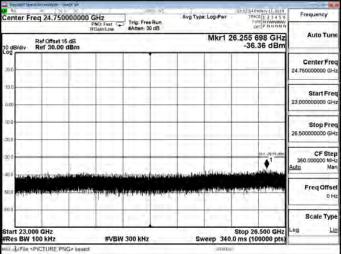
#### Band7\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

			_	<u></u> .		_		ALC RUT	anniantype San	
Frequency	1 2 3 4 5 6 E NNNNN	TRAC	Log-Pwr	Avg Type: Log-		VO: Fast	p	q 15.5000	Center Fre	
Auto Tuni	89 GHz	17.195	Mkr1	_	0 dB	#Atten: 3	Sain:Low	dB	Ref Offset 14	
	46 dBm	-41.	_		-	-	_	IBm	tef 30.00 d	0 dB/div
Center Fre 15.50000000 GH	-								-	20.0
Start Fre 13,000000000 GH										10-0 0.00
Stop Fre 18.00000000 GH		_								100
CF Ste	tor sisteme		100		1.7					
500.000000 MH Auto Ma		AT.		1		1.5	1			30.0
Freq Offse 0 H	edigeneitensk regiserengen		and the state		-	na haragali na magali	land galler http://www.		williams.	50.0 MARSH
Scale Typ						111	1	-	1	eo 0
Log Li	.000 GHz 0000 pts)	Stop 18 0 ms (10	eep 480.	S		300 kHz	#VBW			Start 13.00
L	in the prov		1000					3> bayed		UFIe st

#### Band7\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band7\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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#### Band7\_15MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	MADy 11, 2019	TRA	Log-Pwr	Avp Type	nca (67)	1.	Ha	15000000 0	AL Fred 1
1.6	DET P NINNN	1			all dB	Trig: Fre #Atten: 3	PNO: Fast G		and freq i
Auto Tun	6 8 GHz 04 dBm		Mkr1 2					set 14 dB 0.00 dBm	dB/div Ref
Center Free 1 515000000 GH	-	¢1							
Start Free 30.000000 MH									00
Stop Fre 3.00000000 GH									10
CF Step 297.000000 MH Auto Ma	001-29:51:056								0
Freq Offse 0 H			and the second					14 percentition	10
Scale Type	- 1		1			1		mor cierter	10
Log Li			eep 286	SW		V 300 kHz	#VBM	2	art 0.030 GH

#### Band7\_15MHz\_QPSK\_1\_0\_3000-8000 MHz

Frequency	MANY 15, 2019		Log-Pwr	Avn Tune	via (97)	1	la la	000000 GI	- 1x	Reprise Conce
Auto Tun	E MWWWWWW	Pri d	C EODA MI	tern the	e Run 0 dB	Trig: Fre	NO: Fast Gain:Low	¢.	q 5.5000	enter Fre
	ef Offset 14 dB Mkr1 3.859 51 GHz tef 30.00 dBm -41.38 dBm									
Center Fre 5 50000000 GH									1	0.0
Start Fre 3,000000000 GH										00
Stop Fre 8.000000000 GH										00 0.0
CF Ste 500.000000 MH Auto Ma	00.1-3155 dim							1		00
Freq Offse 0 H			0	Navelanda Navenski sta	-	and the second s		and the local state	a starter	0.0
Scale Typ			i di							00
Log Li	.000 GHz 0000 pts)	Stop 8 .0 ms (10	eep 480.	SW		300 kHz	#VBW			tart 3.000 Res BW 1
	.000 GHz 0000 pts)	.0 ms (10	eep 480	Sw		300 kHz		Il traces ties	lo kHz	

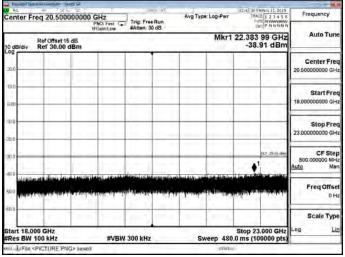
## Band7\_15MHz\_QPSK\_1\_0\_8000-13000 MHz

Reput I for a non-type in out SA			T	02-3 00 PMMoy 11, 2019	
Center Freq 10.5000000	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 dB	Auto Tune				
	T		T	-41.93 dBm	
20.0					Center Fre 10 50000000 GH
10.0					Start Fre 8,000000000 GH
10.0					Stop Fre 13.00000000 GH
30.0				(X1-2) 55 mm	CF Ste
40.0	11.11				500.000000 MH Auto Ma
SEC SECTION OF SECTION	ومذعبه ومعاليق	inter and the second second	aliferen and black	Jamannessenthis	Freq Offse
Contraint Contract of the	designation of the second	and substant	Second States of Second	an franger og ster gester franke f	01
80 0				10100	Scale Typ
Start 8.000 GHz #Res BW 100 kHz	#VBW	00 kHz	Sweep 480	Stop 13.000 GHz .0 ms (100000 pts)	Log Li
UFILE SPICTURE PNG> bey			antesp 100		L

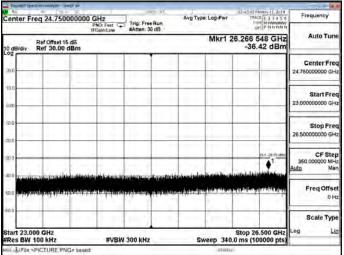
Band7_15MHz_QPSK	_1_0	_13000-18000	MHz
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minimity in the	ALC RUN		_	-				10 m 1 m		
15.5000	00000 G	Hz	100.00		Avg Type	Log-Pwr	TRAC	E123456	Frequency	
IFGemLow #Atten: 30 dB Dec Printer Ref Offset 14 dB Mkr1 14.767 92 GHz										
									Center Free 15.50000000 GH	
									Start Free 13,00000000 GH	
									Stop Fre 18.000000000 GH	
					-			DC1-29-55-094	CF Ste 500.000000 MH <u>Auto</u> Ma	
. Allahin	in all all a	ni aslinda Mangalana			and allow		- mineralis	like the	Freg Offse 0 H	
GHz 0 kHz		#VBM	300 683			1900 A80	Stop 18	.000 GHz	Scale Typ	
	GHz	GHz	a 15.50000000 GHz PRO Fast PRO Fast V PRO Fa	a 15.500000000 GHz PNO: Faet SATER: 3 PNO: Faet	15.500000000 GHZ PHO: Fast PHO:	Avg Type PHO: Fast PHO: Fast PHO: Fast PHO: Fast PHO: Fast Avg Type Avg Type A	A to Type: Log-Per PHC introm A to Trig: Free Run A to Type: Log-Per PHC introm A the Run A to Type: Log-Per A to Type:	A 15.500000000 GHZ PHOLENE Trig: Free Run Avg Type: Log-Pwr Trig: Free Run Trig: Fre	Arg Type: Log.Per      Proc. Fact      Pr	

#### Band7\_15MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band7\_15MHz\_QPSK\_1\_0\_23000-26500 MHz



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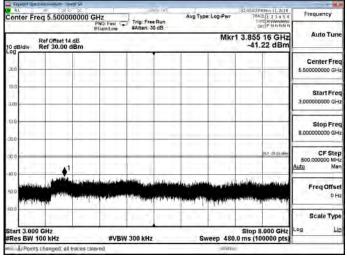


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#### Band7\_15MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.515000000		Avg Type: Log-Pwr Run dB	02341:014MMoy 11, 2019 TRACE 1 2 3 4 5 6 TITE RANNON DET P N N N N N	Frequency
Ref Offset 14 dB	T CALLER T	Mkr1 :	2.528 299 9 GHz 25.24 dBm	Auto Tune
20.0			•1	Center Fred 1 515000000 GH:
0.00				Start Free 30.000000 MH
180				Stop Fre 3.00000000 GH
30.0			001-2051-004	CF Ster 297.000000 MH Auto Ma
500 between the last of the		د. مصلح من محمد برای کا الاستانی رو مهم مربوع مربوع مربوع مربوع مربوع		FregOffse 0 H
Start 0.030 GHz	#VBW 300 kHz	Swaan 29	Stop 3.000 GHz 6.7 ms (100000 pts)	Scale Type

## Band7\_15MHz\_QPSK\_1\_0\_3000-8000 MHz



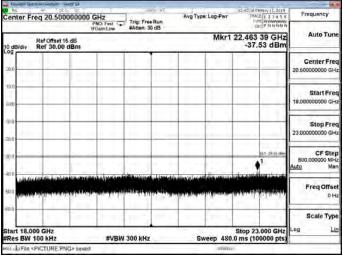
## Band7 15MHz OPSK 1 0 8000-13000 MHz

Frequency	02-4015 PMNoy 11, 2019 TRACE 1 2 3 4 5 6 1075 PMNNN N	r Log-Pwr	Avg Typ	rig: Free Run	PNO: Fast	reg 10.500000000	BL BL			
Auto Tun	Ref Office114 dB Control 42.08 dB Mkr1 9.741 82 GHz 0 dB/div. Ref 30.00 dB - 42.08 dB - 42.08 dB Mkr1 9.741 82 GHz									
Center Fre 10.50000000 GH							20.0			
Start Fre 8.000000000 GH							0.00			
Stop Fre 13.00000000 GH							100			
CF Ste 500.000000 MH Auto Ma	(s.r31.55 day						-30 0			
Freq Offse 0 H	terile and a second		andre Kaser	1979 - 1999 - 1999 1979 - 1999 - 1999	a and a and	read of a second statement	50.0			
Scale Typ	Stop 13.000 GHz ms (100000 pts)	veep 480	S	00 kHz	#VBW :		Start 8.00			
	the treases brog	at at a				PICTURE PNG> baves	N. 2			

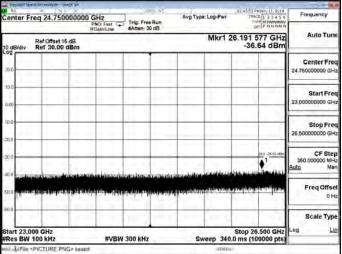
#### Band7 15MHz QPSK 1 0 13000-18000 MHz

	na minimitan in	AC RIP		_					-	
Center F	reg 15.500	PA	O: Fast	Trig: Fre		Avg Type	E Log-Pwr	02 40:17 PMNoy 15, 2019 10-Pwr TRACE   2 7 4 5 6 11 E M WWWWW		Frequency
10 dB/div	IFGentLow         #Atten: 30 dB         Mkr1 14,292 26 GHz           Ref Offset 14 dB         Mkr1 14,292 26 GHz         -41.76 dBm           vdB/dav         Ref 30,00 dBm         -41.76 dBm									Auto Tune
20.0										Center Free 15.50000000 GH
0.00										Start Free 13,000000000 GH
10 0										Stop Fre 18.000000000 GH
30.0		0.40				-	-		001-2055 am	CF Ste 500.000000 MH Auto Ma
40.0 50.0	In the American	ala baranta in				Aless de la company	a stade and a stade of	in er till der	icolar and	Freq Offse 0 H
eo o		1 = -1	-	=			1111			Scale Type
Start 13.0 Res BW			#VBW	300 kHz		SW	eep 480	Stop 18 .0 ms (10	.000 GHz 0000 pts)	Log Li
DFIG.	PICTURE PN	G> saved					-0.00	e		

#### Band7\_15MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band7\_15MHz\_QPSK\_1\_0\_23000-26500 MHz



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## Band7\_15MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E MWWWWWW F NN NN N	TRAC	Log-Pwr	Аур Туре	ee Run 30 dB	Trig: Fre	HZ PNO: Fast G		reg 1.5150	Center F			
Auto Tun	Mkr1 2,555 802 4 GHz 23.79 dBm							Ref Offset 14 dB 0 dB/div Ref 30.00 dBm					
Center Fre 1 515000000 GH		•1			-					20.0			
Start Fre 30.000000 MH										0.00			
Stop Fre 3.00000000 GH										10.0			
CF Ste 297.000000 MH Auto Ma	(xr.zisiain				-				-	30 0			
Freq Offse 0 H			Lostationale Agencie par	a a Scindle		a destantal	fictor fait	-	with a will de la	-la o 50.0 veloci			
Scale Typ	-						1.08	- And a set	100 C 100 C 100	10.0			
Log Li		Stop 3 ms (10	eep 286.7	Sw	2	300 kHz	#VBW		30 GHz 100 kHz	Start 0.03 #Res BW			

## Band7\_15MHz\_QPSK\_1\_0\_3000-8000 MHz

Reprint for 2 with some surplish							
enter Freq 5.500000000	DMO: East IT	g: Free Run tten: 30 dB	Avg Type	Log-Pwr	TRA	MNoy 11, 2019 CE 1 2 3 4 5 6 TE MWWWWW ET P NN NN N	Frequency
Ref Offset 14 dB 0 dB/div Ref 30.00 dBm	Tradition			Mkr		61 GHz 74 dBm	Auto Tun
20.0							Center Fre 5.50000000 GH
0.00							Start Fre 3,000000000 GH
00							Stop Fre 8.000000000 GH
x00		1 2	-			04-2155 AM	CF Ste 500.000000 MH Auto Ma
				paraset para	Should be	in the second	Freq Offse 0 H
Res BW 100 kHz	#VBW 300	kHz	Sw	eep 480	Stop 8	3.000 GHz 00000 pts)	Scale Typ

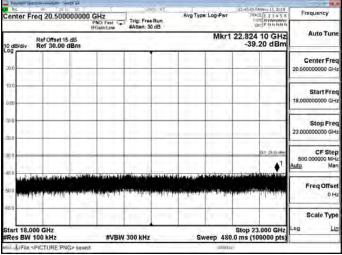
## Band7 15MHz OPSK 1 0 8000-13000 MHz

Senter Freq 10.500000000		ee Run	Nyp Type: Log-Pwr	02 42-41 PM NOV TRACE   1 I I I I I DET P			
Ref Offset 14 dB 0 dB/div Ref 30.00 dBm		Mkr1 9.002 76 GHz -42.38 dBm					
20.0					Center Free 10.500000000 GHz		
0.00					Start Free B,000000000 GH:		
100					Stop Free 13.00000000 GH		
x0 0				001.3	Stormer CF Step 500.000000 MH Auto Mar		
SOO THE REPORT OF THE REPORT OF			and the section		Freq Offse 0 H		
800 Start 8.000 GHz Res BW 100 kHz	#VBW 300 kH		Sween AS	Stop 13.000	Scale Type		

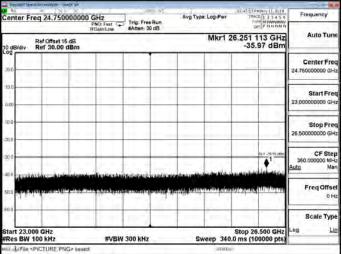
#### Band7\_15MHz\_QPSK\_1\_0\_13000-18000 MHz

				-	_		भेद्र माम	unionlype in	
Frequency	02 3433 PMNov 11, 2019 TRACE 1 2 3 4 5 6 THE MONTH N	Log-Pwr	Avg Type: Log-		Trig: Fre	NO: Fast	000000 G	q 15.500	enter Fr
Auto Tun	#Atten: 30 dB Mkr1 15.214 02 GHZ -41.63 dBm						I dB	Ref Offset 14	0 dB/div
Center Fre			-	1				Ref 30.00	Do.
15 50000000 GI-									10.0
Start Fre 13,000000000 GH									0,00
Stop Fre 18.00000000 GH									10.0
CF Ste	(X1.29.55 mm								0.0
500.000000 MH Auto Ma		12.0	1.1	1		1	1		40.0
Freq Offse 0 H	Non-superior for the state	riteria and			la in an		erekona heine Personanta	in a state of the	aria Alinaka Alinaka
Scale Typ	100		-	-	1000	2.1.1			80.0
Log Li	Stop 18.000 GHz 0 ms (100000 pts)	eep 480.	Sw	2	300 kHz	#VBW			Res BW
		at at a second	-			-	G> baved	ICTURE PN	UFIe s

## Band7\_15MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band7\_15MHz\_QPSK\_1\_0\_23000-26500 MHz



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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#### Band7\_20MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	MMoy 11, 2019 CE 1 2 7 4 5 6 IC MYWWYWWY ET P IN I IN IN	TRA	r Log-Pwr	Avg Typ	e Run 10 dB	A	IZ NO: Fast G	P	reg 1.5150	Center I
Auto Tur	4 7 GHz 08 dBm		Mkr1 2					dB	Ref Offset 14 Ref 30.00	0 dB/div
Center Fre 1 515000000 GH		•1								20.0
Start Fre 30.000000 MH										0.00
Stop Fre 3 00000000 GH										10.0
CF Ste 297.000000 MH Auto Ma	<u>(51-2155 mm</u>	1		-	-					30 0
Freq Offs 0 F				AL Loudes	La Laca				John Collins of	50.0 coutod
Scale Typ	.000 GHz	Stop						de contra	A CH4	start 0.0
	00000 pts)		veep 286	Sv		300 kHz	#VBW		100 kHz	

#### Band7\_20MHz\_QPSK\_1\_0\_3000-8000 MHz

Center Freq 5.500000000 GHz		Avg Typ	e:Log-Pwr	02-35-39 PMNoy 15, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 dB	Fast Trig: Free Ru #Atten: 30 di	3.	Mkr1	4.995 82 GHz	Auto Tun
20.0 dB/div Ref 30.00 dBm				-40.48 GBM	Center Fre 5.50000000 GH
0.00					Start Fre 3,000000000 GH
100					Stop Fre 8.00000000 GH
200	<b>6</b> 1			(X1-2)55 din	CF Ste 500.000000 MH Auto Ma
50.0 Rentleton and a francisco and a second		line for the form		aliation distance	Freq Offse 0 H
too Start 3.000 GHz Res BW 100 kHz	#VBW 300 kHz	SI	veep 480.0	Stop 8.000 GHz ms (100000 pts)	Scale Typ

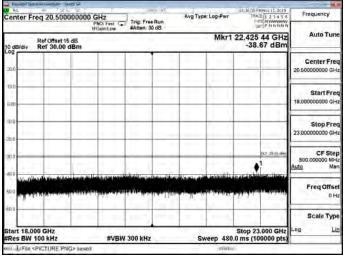
## Band7 20MHz QPSK 1 0 8000-13000 MHz

Center Freq 10.500000000	DMD: East I Trig: ]	Free Run	Avg Type: Log-Pwr	02-36/11 FMMoy 11, 2019 TRACE 1 2 3 4 5 6 105 M WWWWWW Get P TAN FAN N	Frequency
Ref Offset 14 dB	Population		Mkr1	10.770 73 GHz -42.47 dBm	Auto Tun
20.0					Center Fre 10.50000000 GH
0.00					Start Fre B,000000000 GH
00-					Stop Fre 13.00000000 GH
20.0		A1		(X.1 -21 55 dbs	CF Ste 500.000000 MH Auto Ma
200 Mart of E. A. Brown Mart of Andrews	alaartavaliilaanaa		and be a second to the second s		Freq Offse 0 H
eo 0 Start 8.000 GHz Res BW 100 kHz	#VBW 300 k	HZ	Sween 490	Stop 13.000 GHz	Scale Typ

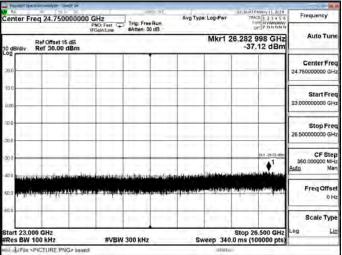
#### Band7\_20MHz\_QPSK\_1\_0\_13000-18000 MHz

	02-36 (21 PM Noy 15, 2019		-	and the			We app	minimite in	engilt Seman
Frequency	TRACE 1 2 3 4 5 6	Avg Type: Log-Pwr		ee Run	Trig: Fre	O: Fast	PA	15.5000	
Auto Tun	15.348 97 GHz -42.13 dBm	Mkr1	#Atten: 3	sain:Low	dB	ef Offset 14			
Center Fre 15 50000000 GH				1				10.001	
Start Fre 13,000000000 GH									
Stop Fre 18.000000000 GH									
CF Ste 500.000000 MH Auto Ma	001-2155-091		-			-			-
Freq Offse 0 H	ining in the second	an a	a la marta da la		-		and when any		in de listel Information
Scale Typ		1	4			1		12	
Log Li	Stop 18.000 GHz 0 ms (100000 pts)	ep 480.	Sw	z	300 kHz	#VBW			t 13.000 s BW 10
		al aller		-			la invest	CTURE PN	LEIN SP

#### Band7\_20MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band7\_20MHz\_QPSK\_1\_0\_23000-26500 MHz



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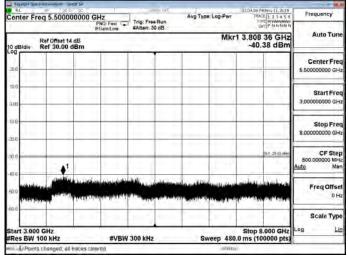


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#### Band7\_20MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E M WWWWW	TRAC	Log-Pwr	Avg Type	ee Run	AL AL	HZ PNO: Fast C.	515000000 G	enter Freq
Auto Tune	2 4 GHz 67 dBm	526 07: 24.	Mkr1 2.		ou de		ASSINGLOW .	fset 14 dB 0.00 dBm	0 dB/div Re
Center Free 1 515000000 GH		•1		-					20.0
Start Free 30.000000 MH									0.00
Stop Free 3.000000000 GH									100
CF Step 297.000000 MH Auto Mar	00.1 -20 55 mm				-				0.0
Freq Offse 0 Hi		alu,			- Annalan	-	d-ilaun'	and the second second	50.0 mm/4/ml km
Scale Type						1.000	difinit de a c	duran dara (b.i.s.	20.0
Log Li		Stop 3 7 ms (10	eep 286.	SW	2	V 300 kHz	#VBV	42	tart 0.030 G

#### Band7\_20MHz\_QPSK\_1\_0\_3000-8000 MHz



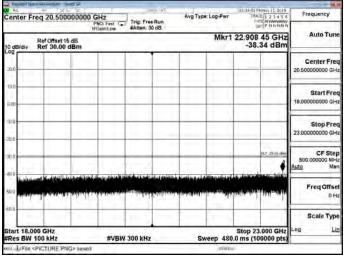
#### Band7\_20MHz\_QPSK\_1\_0\_8000-13000 MHz

						etal 34	a subscription of	
Frequency	102.34:38 DMARSY 15, 2019 TRACE 1 2 3 4 5 6 THE MANNEY Get P MANNAN	Avg Type: Log-Pwr		Free Run	ast Trig:1	000000 GHz	reg 10.5000	Center F
Auto Tun	1 8.512 16 GHz	Mkr1		n: 30 dB	Low #Atter	IFGaint		-
	-42.57 dBm	and a			dB IBm	Ref Offset 14 Ref 30.00 c	10 dB/div	
Center Fre 10.500000000 GH	1 1 1 			-			12.3	20.0
Start Fre 8,000000000 GH								0.00
Stop Fre 13.00000000 GH								10.0
CF Ste	DLT -29 55 dire	100						30.0
500.000000 MH Auto Ma		12.1	÷	1.1	1.1			40.0
Freq Offs	ويعادره وبالكرما والم	Manu Balans	dinin alin	Maria marine	hinters existin	- territe we	dis house have	50.0
01	Although May a distance and	a ministration	in the second second	and and an open	Gentlenite.	and the second second	difference and any	Unit
Scale Typ		1111		100	-	1		80.0
Log Li	Stop 13.000 GHz 0 ms (100000 pts)	eep 480.	Sw	H7	#VBW 300 k			Start 8.00
	1 1 1						PICTURE PN	

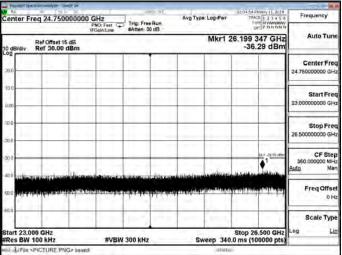
Band7_20MHz_QPSK	_1_0	_13000-180	00 MHz
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H 8L	- IXX	- X	. T		NOR INT	- D		02:34:30 P	MANSY 15, 2019	
Center F	reg 15.500	P	HZ VO: Fast G	Trig: Fre	Run	Avg Type	Log-Pwr	TRAC	2 1 7 3 4 5 6 Bywwwww P nn nn n	Frequency
10 dB/div	Ref Offset 14 Ref 30.00	dB.	SHIELOW	WALLERC U	u ub		Mkr1	13.700	96 GHz 96 dBm	Auto Tune
20.0										Center Freq 15.50000000 GHz
10.0 0.00										Start Fred 13,00000000 GHz
10.0										Stop Free 18.00000000 GH
30 0					_	-	-		DLT - 29 55 min	CF Step 500.000000 MH: Auto Mar
40 0 50 0	and stationers	- interingent	Maria dia		Sections.	alanalan actifican	alahi warat	and the second		Freq Offse 0 H
100			Dealer	-1.44	and our		The Lord		-Time -	Scale Type
Start 13.0 Res BW		2.1	#VBW	300 KHz		SW	eep 480	Stop 18 .0 ms (10	.000 GHz 0000 pts)	Log Lin
D DFIE	PICTURE PN	G> bayed				_		n-		

#### Band7\_20MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band7\_20MHz\_QPSK\_1\_0\_23000-26500 MHz



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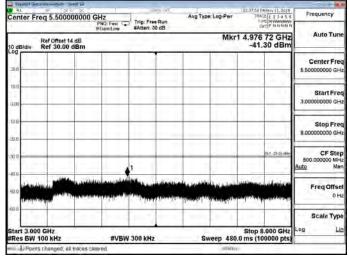


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#### Band7\_20MHz\_QPSK\_1\_0\_30-3000 MHz

	Hz PNO: Fest Trig: F Gaint Low #Atten	ree Run	Avg Type: Log-P	NF TH	ACE 1 2 7 4 5 6	Frequency
Ref Offset 14 dB	CHICLER .		Mkr		50 3 GHz 1.72 dBm	Auto Tur Center Fre 1 51500000 GH Start Fre 30.00000 MH Stop Fre 3.00000000 GH
20.0				•1		Center Free 1 515000000 GH
10.0 0.00						Start Free 30.000000 MH
100						Stop Free 3 00000000 GH
300					001-29:53 (894	CF Step 297.000000 MH Auto Mar
400						Freq Offse 0 Hi
start 0.030 GHz #Res BW 100 kHz	#VBW 300 kt		Sweep 2		3.000 GHz 100000 pts)	Scale Type

#### Band7\_20MHz\_QPSK\_1\_0\_3000-8000 MHz



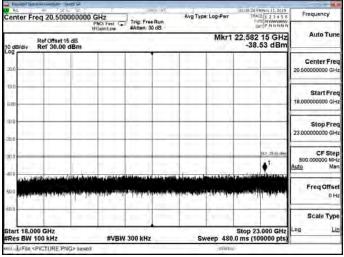
## Band7\_20MHz\_QPSK\_1\_0\_8000-13000 MHz

	and the second	-						HTT 54	minipe S	
Frequency	MH5/11.2019 CE 1 2 3 4 5 6	TRA	Log-Pwr	Avg Type	ee Run	Trig: Fr	GHZ PNO: Fast Ca	000000	q 10.500	Center Fre
Auto Tur	ET F INIGINI		Adler		30 dB	#Atten	FGain:Low	1	-	_
10000	81 GHz 61 dBm		WIKF				_	4 dB dBm	tef Offset 1- tef 30.00	0 dB/div
Center Fre	-	1.00	1.0			11.1	1-1		1	1
Center Fr 10.50000000 G Start Fr 8.00000000 G Stop Fr 13.00000000 G CF St	1						1		-	20.0
Start Fre	-		-		-	-		-	-	10.0
B,000000000 G		-					1.1		-	0.00
Stop Fre	-			-	-	-	-		-	to ó
13.00000000 GH						1.000	1 - 1 -		1 1	0.00
CF Ste	DK1 -29 55 mm									1.
500.000000 MH	1.1-1	1.1	10.0	1.1	1	111		-	.1	30.0
Freg Offs	hadding	La la chi	Vania and a la	Lander	. and in a	in Chierton	white white	a desiden	a line	40.0
0 H	a interiora	and an distant	or states and	(Westerney)	-	1,000	anticator, song	in the second	hinkey (7)	50.0
Dents Tom	1 4 4 m Ac	di anci		1.00			1	1.1.	CON	ia a
Scale Typ	1		1.1						-	
Log	3.000 GHz 00000 pts)	Stop 1: 0 ms (1	eep 480	SV	z	300 kH	#VBW			Res BW 1
			al allar					G> invest		UFIE P

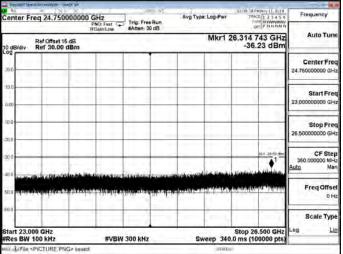
#### Band7\_20MHz\_QPSK\_1\_0\_13000-18000 MHz

Frequency	MNOV 15, 2019 CE 1 2 7 4 5 6 I = MYWWYWWW ET P MN/MW M	TRA	e: Log-Pwr	Avg Typ	e Run 30 dB	Trig: Fre	HZ KD: Fast G	p	eq 15.500	enter Fi
Auto Tuni	80 GHz 70 dBm		Mkr1						Ref Offset 14 Ref 30.00	dB/div
Center Free 15.50000000 GH								_	1	0.0
Start Free 13,00000000 GH										.00
Stop Free 18.000000000 GH										00 0.0
CF Step 500.000000 MH Auto Mar	<u>11.2155.000</u>			-					-	00
Freg Offse 0 H	an a link an	in stand	warehour warehour	-	Internet in		distant within the	enderse in endersenter		
Scale Type			veep 480	S		300 kHz	#VBW			tart 13.0 Res BW

#### Band7\_20MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band7\_20MHz\_QPSK\_1\_0\_23000-26500 MHz



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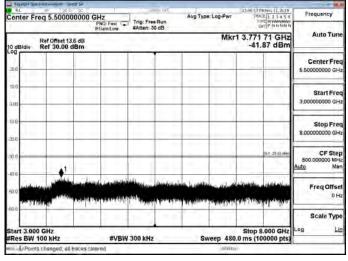
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#### Band12\_1\_4MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	2 1 7 7 4 5 6 C MWWWWW ET P MMMMM	TRA Tri	: Log-Pwr	Avg Typ	e Run 0 dB	Trig: Fre	Z VQ: Fast G	P	Freq 1.515	Cente
Auto Tur Center Fre 1 51500000 Gi Start Fre 30.00000 Mi Stop Fre 3.0000000 Gi	6 2 MHz 20 dBm	699.29 25.	Mkr1						Ref Offset Ref 30.00	10 dB/d
Center Fre 1 51500000 GH	1							<b>•</b> 1		20.0
Start Free 30.000000 MH										10.0
Stop Fre 3.00000000 GH										10.0
CF Ste 297.000000 MH Auto Ma	(ST-2161484				1					30 0 🗕
Freq Offse 0 H		al la historia Managerari		in a second	and the second		to all a deal	1-	n ha sa sa dan	50.0
Scale Type			11			out chotto.	An al al al ante	ALL YOU'LY		80.0 <b>**</b>
Log Li	0000 GHz	Stop 3 7 ms (10	eep 286	SV		300 kHz	#VBW		030 GHz W 100 kHz	

#### Band12\_1\_4MHz\_QPSK\_1\_0\_3000-8000 MHz



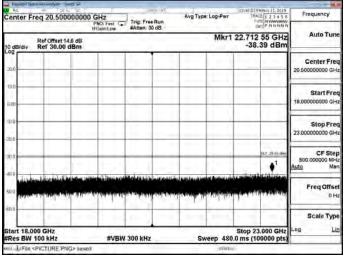
#### Band12\_1\_4MHz\_QPSK\_1\_0\_8000-13000 MHz

Center Freq 10.5000000	00 GHz PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	03-41 J9 PMNoy 15, 2019 TRACE 1 2 3 4 5 6 TITE MWWWWW DET P N N NN N	Frequency
Ref Offset 13.5 dB 10 dB/div Ref 30.00 dBm	IT CONTRACTOR		Mkr	1 9.823 62 GHz -42.32 dBm	Center Fro 10:5000000 Gi Start Fro 8:00000000 Gi Stop Fro 13:0000000 Gi CF Ste 500.00000 Mi
200					Center Free 10.500000000 GH
0.00					Start Free B,000000000 GH
100					Stop Fre 13.00000000 GH
300				(X1-3) 51 dbe	CF Stej 500.000000 MH <u>Auto</u> Ma
200 Roman Roman Provinsi	ante de constale Antennesserent	and Maile and America	an la bran a rinner	alas Managaran y	Freg Offse 0 H
*0.0 Start 8.000 GHz		1	1.1	Stop 13.000 GHz	Scale Type
#Res BW 100 kHz	93240	300 kHz	Sweep 480	.0 ms (100000 pts)	

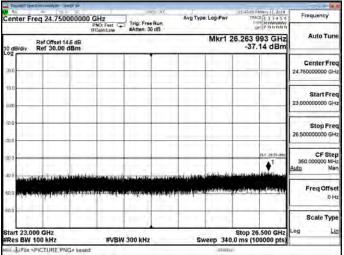
#### Band12\_1\_4MHz\_QPSK\_1\_0\_13000-18000 MHz

				-			र्भद्र म्यून	annamiyter Sa		Fe
Frequency	103-46-41 EMMoy 11, 2019 TRACE 1 2 3 4 5 6 THE BOWWWWW GET P NINNIN	Pwr	Avg Type: L	Run	Trig: Free	Hz KO: Fast G	00000 G	q 15.500		
Auto Tun	15.447 22 GHz	Akr1	-	dB	#Atten: 30	sain:Low			-	-
	-42.54 dBm			_	_			Ref Offset 13 Ref 30.00		0 dE
Center Fre 15 50000000 GH				_				-		20.0
Start Fre 13,000000000 GH										10.0 0.00
Stop Fre 18.00000000 GH										10.0
CF Ste	(K.1 -21.53 dire								-	30.0
500.000000 MH Auto Ma				1					1	40.0
FregOffse	many birms in the	hanne	A SUBBRIDE	-Anielia	math	a Mary a Like	and the set			
0H	A the sub-the second in	-	and a second	(internet of the	(Links)	ور المرا	and a first of the second	alle newson	0.10	50.0
Scale Typ				-	1	1.1		1	1	10.0
Log LL	Stop 18.000 GHz 0 ms (100000 pts)	480.	Swe	-	300 kHz	#VBW	-		t 13.00 s BW 1	
		al aller		-			Served SE	CTURE PN		1.1

#### Band12\_1\_4MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



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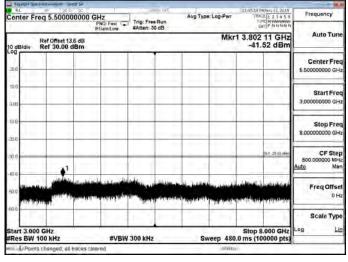
# Report No.: E2/2019/90045 Page 385 of 645



#### Band12\_1\_4MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.515000000	GHZ PNO: Fast G	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	103 46 38 PM Noy 11, 2019 TRACE 1 2 3 4 5 6 TIPE Standard N	Frequency
Ref Offset 13.5 dB			Mkr1	25.45 dBm	Center Fr 1.51500000 Gi Start Fr 30.00000 Mi Stop Fri 3.00000000 Gi
20.0					Center Fre 1 515000000 GH
0.00					Start Fre 30.000000 MH
100					Stop Fre 3 00000000 GH
30.0				001-3155-094	CF Ste 297.000000 MH Auto Ma
50.0 utera atti surrati attinua ute	AND ADDRESS OF	des una luin in	and the second second		Freq Offse 0 H
200 Start 0.030 GHz #Res BW 100 kHz	#VBW	( 300 kHz	Sweep 28	Stop 3.000 GHz 6.7 ms (100000 pts)	Scale Typ

#### Band12\_1\_4MHz\_QPSK\_1\_0\_3000-8000 MHz



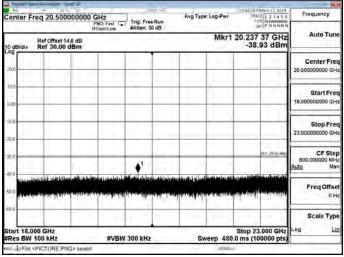
#### Band12\_1\_4MHz\_QPSK\_1\_0\_8000-13000 MHz

GHz PNO: Fast	Trig: Free Run	Avg Type: L	.og-Pwr	TRACE 1 2 3 4	5 6 Frequency
IFGain:Low	anten ou do		Mkr1 1	2.459 49 GH	Auto Tune
					Center Free 10.500000000 GH
					Start Free B,000000000 GH
					Stop Fre 13.00000000 GH
				per sinia	S00.000000 MH Auto Mar
	nde fit de la traisere Mariting of Aligie	امتر) وحمامه مردوم ومردوم	i animi ta a	Incarda Ing and	Freg Offse
				Stop 13.000 Gł	Scale Type
			And a shift of the second		Production         Address and D           Mkr1 12.459 49 GF         -41.89 dB           -41.89 dB         -41.89 dB

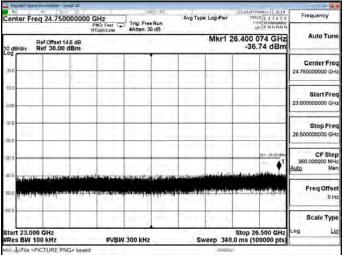
#### Band12\_1\_4MHz\_QPSK\_1\_0\_13000-18000 MHz

	The second second					_		fic an	unionly tre in	
Frequency	1 2 3 4 5 6 Nov 11, 2019	TRACE	Log-Pwr	Avg Type	eRun	Trig: Fre	NO: Fast	p	q 15.500	Center Fi
Auto Tur	94 GHz	17.350	Mkr1	_	0 dB	#Atten 3	Sain:Low	IFI	Ref Offset 13	5.00
	JU aBm	-42.0	_		-	-		dBm	Ref 30.00	0 dB/div
Center Fre 15.50000000 GH	1.00								1	20.0
Start Fre 13,00000000 GF										0.00
Stop Fre 18.00000000 GH										10.0
CF Ste	101-2151-004		100		1.7					
500.000000 MH Auto Ma		A1	11.1	1.1		12.1			1	40.0
FregOffs	ald	. initiality	(maile and	Levelling.	Libration	الا مسام وقال	directoria	and black	and a state	- AN
01	diaman.		A. Lasting	Columby . effer	a shirt a	a place	Sumal In	and the day	dia. Julia IS	50.0
Scale Typ		-	1			1.1	1		1	80.0
Log	000 GHz	Stop 18. 0 ms (10	eep 480.	Sw		300 kHz	#VBW			Start 13.0
E			al aller					G2 bayed	CTURE PN	

#### Band12\_1\_4MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



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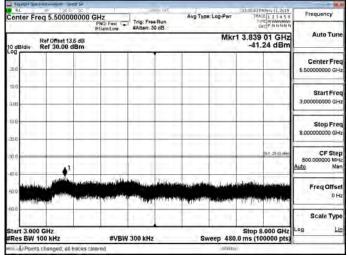
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#### Band12\_1\_4MHz\_QPSK\_1\_0\_30-3000 MHz

ter Freq 1.51500000	PNO: Fast G	Trig: Free Run	Avg Type: Log-Pwr	015101FMMov11,2019 TRACE 1 2 3 4 5 6 TIPE MWWWWW DET P NNRN N	Frequency
Ref Offset 13.5 dB Ref 30.00 dBm			Mkr1	714.888 8 MHz 24.96 dBm	Auto Tuni
•	ι				Center Fre 1 515000000 GH
					Start Fre 30.000000 MH
					Stop Fre 3.00000000 GH
				(X1-3) 51 dise	CF Ste 297.000000 MH Auto Ma
in an interview in the state of	and have a		Constantial and a		Freg Offse 0 H
t 0.030 GHz	tu o medi sano		10.00	Stop 3.000 GHz	Scale Typ

#### Band12\_1\_4MHz\_QPSK\_1\_0\_3000-8000 MHz



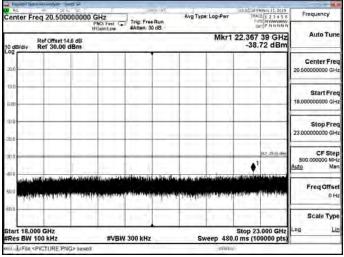
#### Band12\_1\_4MHz\_QPSK\_1\_0\_8000-13000 MHz

			_			inerga SA	ng was supported	
Frequency	TRACE 1 2 1 4 5 6	ype: Log-Pwr	A	Trig: Free R	NO: Fast	¢.	reg 10.500	Center F
Auto Tu Center Fr 10.50000000 G Start Fr 8.00000000 G Stop Fr 13.00000000 G	11.658 34 GHz -42.76 dBm	Mkr1	-	#Atten: 30 d	Gain:Low	13.5 dB	Ref Offset 1 Ref 30.00	10 dB/div
Center Fre 10.500000000 GH								20.0
Start Fre 8,000000000 GH								0.00
Stop Fre 13.00000000 GM								10.0
CF Ste	151-21-51-654					_		30.0
	12 (L. <sup>2</sup> .	40		6.4	1.11			40.0
Freq Offs 0 F	and the second sec		line La Mindy Manapagnan	ulturar bet	ali ani ang		ering and a solution	50.0
Scale Typ		1.111				-		<del>70</del> 0
Log L	Stop 13.000 GHz 0 ms (100000 pts)	Sweep 480.		300 kHz	#VBW			Start 8.00 Res BW
		anality.				NG> bayed	PICTURE PI	UFIE

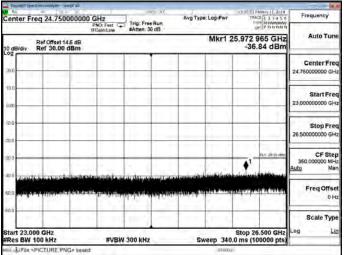
#### Band12\_1\_4MHz\_QPSK\_1\_0\_13000-18000 MHz

Frequency	MNOV15,2019 = 127455 = MWWWWWW = P NNNNN	TRAC	Log-Pwr	Avg Type	Run	Trig: Fre	O: Fast	P9	q 15.5000	nter Fre		
Auto Tune	IFGent.ce         #Anen: 30 dB         Mkr1 15.759 58 GHz           Ref Offset 13.5 dB         Mkr1 15.759 58 GHz         -42.11 dBm           dB/div         Ref 30.00 dBm         -42.11 dBm											
Center Fr 15.50000000 G									1	0		
Start Fred 13,000000000 GH:										0		
Stop Free 18.00000000 GH										0		
CF Step 500.000000 MH; Auto Mar	(X1-2151-000				<b>A</b> 7					0		
Freg Offse 0 H	and an address	ALC PROPERTY	(hand had	and stands	ant disast	and states	Sub-olive Sub-olive	linger en sor	and a little work			
Scale Type	.000 GHz	Stop 18	uaan 490			300 kHz	#VEW			art 13.00		

#### Band12\_1\_4MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



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#### Band12\_3MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	Noy 11, 2019	TRACE	Log-Pwr	Avg Type	e Run 30 dB	1000	HZ NQ: Fast G	P	reg 1.5150	Center F
Auto Tun	1 MHz 17 dBm		Ref Offset 13.6 dB dB/div Ref 30.00 dBm							
Center Fre 1 51500000 GH								•1		20.0
Start Fre 30.000000 MH										10-0 0,00
Stop Fre 3.00000000 GH										10.0
CF Ste 297.000000 MH Auto Ma	(X.1 - 24 51 ABM								-	30.0
Freq Offse 0 H	-	iner bilde anaronite	Ale alt		-	h. funto h	Lineire state			11
Scale Typ			1-1	-			(101-033	and a lot of	a contra a con	e0 0
- M - M		Stop 3. 7 ms (10	eep 286	SW		300 kHz	#VBW	-		Start 0.03 #Res BW

#### Band12\_3MHz\_QPSK\_1\_0\_3000-8000 MHz

Repain Constantian Section 24	-00-04		01-4   IPMMoy 11, 2019	
enter Freq 5.500000000 GHz PNO: Fast IFGainLow	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.5 dB 0 dB/div Ref 30.00 dBm		Auto Tun		
.00				Center Fre 5.50000000 GH
0.00				Start Fre 3,000000000 GH
10.0				Stop Fre 8.000000000 GH
20 0 40 0			DCT -29 55 mbr	CF Ste 500.000000 Mi <u>Auto</u> Mi
So o destruction of the second se	A Designation of the second se	eria anterio de la combie	and an and an an	Freq Offs 0 f
Res BW 100 kHz #V!	BW 300 kHz	Sweep 480.	Stop 8.000 GHz 0 ms (100000 pts)	Scale Typ

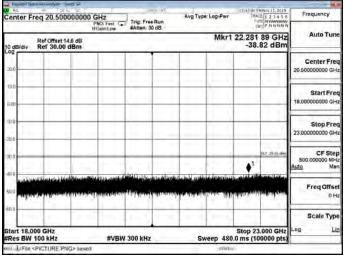
## Band12\_3MHz\_QPSK\_1\_0\_8000-13000 MHz

			-		
PNO: Fast	Trig: Free Run	Avg Type: Lo	g-Pwr	TRACE 1 7 3 4 5 6	Frequency
IFGain:Low	#Atten: 30 dB	- 1		06 52 GHz	Auto Tun
					Center Fre 10.50000000 GH
					Start Fre 8,000000000 GH
					Stop Fre 13.00000000 GH
				001-3155 div	CF Ste 500.000000 MH Auto Ma
and the states of the		an al-al-dublah	ali ana ang	ndan seinen ha Mitsenperatura	Freq Offs 0 F
	200 144		Stop	5 13.000 GHz	Scale Typ
		PNO: Fast Trig: Free Run	Avg Type: Lo PRO: Fat Lo PRO:	Avg Type: Log-Per PRO: Fau: Log - Per PRO: Fau: Log - Per Avg Type: Log-Per Mkr1 10:2 Mkr1 10:	10 GH2 PROFeet PROFEET

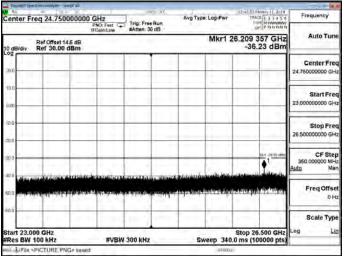
#### Band12\_3MHz\_QPSK\_1\_0\_13000-18000 MHz

Feynight Ser	na unioniyan is	HTT SA			-							
	req 15.500	p	Or Fast	Trig: Free Run		Avg Type	Avg Type: Log-Pwr		PMNoy 15, 2019 ACE 1 2 1 4 5 6	Frequency		
_		161	Sain:Low	#Atten: 3	dB				- Contract	Auto Tun		
0 dB/div	Ref Offset 13.5 dB Mkr1 17.141 09 GHz dB/div Ref 30.00 dBm - 42.29 dBm											
				11.1				1		Center Fre		
X0.0				-		-		-		15.50000000 GH		
10.0				-	_		-	_				
0,00	-			-	-				-	Start Fre 13,000000000 GH		
(0 Ó						-				Stop Fre		
ia.0			1.1.1							18.00000000 GH		
00		_			1.7					CF Ste		
110		1	1	111	1		10.1		1	500.000000 MH Auto Ma		
0.0	مرابعه والمراري	a she want	duo une	ور الم	desident		-	denie	فيناتعا والمارية	FregOffs		
50.0	and the second	- and a second	antaria n'e	ered all the	MAN-AN	-		den e fet	In a second s	0H		
0.0				-			-		-	Scale Typ		
tart 13.0	00 GHz	_		-		-	-	Stop 1	8.000 GHz	Log Li		
Res BW	100 kHz		#VBW	300 kHz	-	SW	eep 480	.0 ms (1	00000 pts)			
D LIFIE	PICTURE PN	G> bayed					1000	÷				

#### Band12\_3MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



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#### Band12\_3MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 MWWWWWW F NN/NNN	TRAC	Log-Pwr	Avg Type	Run	10.00	Z VO: Fast Ca	P	reg 1.51500	Center F	
Auto Tun	Ref Offset 13.5 dB Mkr1 706.275 8 MHz Ref 30.00 dBm 25.31 dBm										
Center Fre 1 51500000 GH	-							•1		20.0	
Start Fre 30.000000 MH										0.00	
Stop Fre 3.00000000 GH										10.0	
CF Ste 297.000000 MH Auto Ma	<u>(xr.3) si ang</u>				1 1					ao o 🛁	
Freq Offse 0 H		and the state of the	an inter a dist		. di dendia		a norte da		United and the last	50.0	
Scale Typ			1000							80.0 P	
Log Li	.000 GHz 0000 pts)	Stop 3 7 ms (10	eep 286	SW		300 kHz	#VBW	-	30 GHz 100 kHz	Start 0.03 Res BW	

#### Band12\_3MHz\_QPSK\_1\_0\_3000-8000 MHz

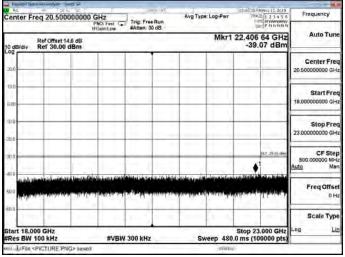
Keynell (per 2 minute) - megs 53			-		112-20-44	MANY 15, 2019	
Center Freq 5.50000000 GH	NO: East I Trig: F	ree Run	Avg Type	Log-Pwr	TRA	ET P MANAGAN	Frequency
Ref Offset 13.5 dB 0 dB/div Ref 30.00 dBm	Samilow watter	Auto Tun					
20.0		-					Center Fre 5.50000000 GH
0.00							Start Fre 3,000000000 GH
10.0							Stop Fre 8.000000000 GH
30.0	•1					DUT-2155-004	CF Ste 500.000000 MH <u>Auto</u> Ma
50.0	town from the state	North Arrow	and a second state of	in contract	and any	an antilise approxim	Freq Offs 0 F
Res BW 100 KHz	#VBW 300 ki	Hz	Sw	eep 480	Stop 8	3.000 GHz	Scale Typ

## Band12\_3MHz\_QPSK\_1\_0\_8000-13000 MHz

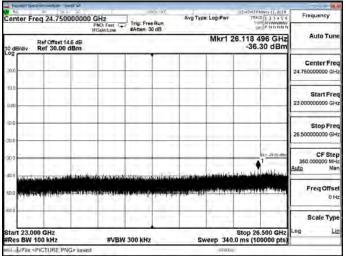
Kapinga (Spectra announly) ter Sampt Sh				The second second	
Center Freq 10.5000000	D GHz	Trig: Free Run	Avg Type: Log-Pwr	03-40111 PM May 11, 2019 TRACE 1 2 3 4 5 6 10 = M WWWWWW	Frequency
	IFGain:Low	#Atten: 30 dB	Mkr	1 8.489 85 GHz	Auto Tun
Ref Offset 13.5 dB 0 dB/div Ref 30.00 dBm		-		-42.19 dBm	
20.0					Center Fre 10 50000000 GH
0.00					Start Fre
100-					Stop Fre 13.000000000 GH
30.0				(x1.5) (1 die	CF Ste 500.000000 Mil
400		_			<u>Auto</u> Mi
20 0 Martin Brich Million and Indiana	and the set of particular particular and particular	and the could be light of	alline de alexaño de antise e antise en egener d'ante en	a fariharini mba atao mutu. Nganga na tuta genganan tao	Freq Offs 0 F
e0 0				1.1.1	Scale Typ
Start 8.000 GHz Res BW 100 kHz	#VBW	300 kHz	Sweep 480	Stop 13.000 GHz	Log L
UFIG SPICTURE PNG> box			uncep too		

CH2 PRO: Fast La Trig: Free Run PRO: Fast La Trig: Free Run PRO: Fast La Trig: Free Run Avg Type: Log-Pwr Trig: Pro: Log-Pwr Trig: Pwr Trig: Pwr Trig Trig: Pwr Trig: Pwr Trig: Pwr Trig	equency
	Auto Tune
	enter Fred
13,000	Start Free
	Stop Free
ret Stores	CF Step 000000 MH Mar
na na 15. militar any sangana kana ang kana ang Kang baha ng kang kang kang kana ng kang kang ka	Freq Offse 0 Hi
#VBW 300 kHz Sweep 480.0 ms (10000 pts)	Scale Type

#### Band12\_3MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



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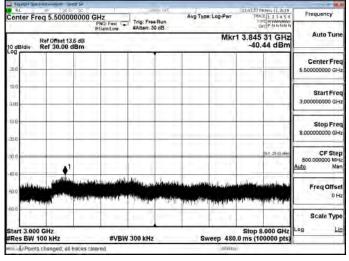


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#### Band12\_3MHz\_QPSK\_1\_0\_30-3000 MHz

	(Noy 15, 2019	03-44-57 P			NOR UNIT			N 7	I minimiper inter	R.L.
Frequency	TRACE 1 2 3 4 5 6		Avg Type: Log-Pwr		e Run 10 dB	Trig: Fre	Z VQ: Fast G	0000 GH	eq 1.51500	Center F
Auto Tun	5 6 MHz 41 dBm	713.22	Ref Offset 13.5 dB 8/div Ref 30.00 dBm							
Center Fre 1 51500000 GH	-							•1		20.0
Start Fre 30.000000 MH										0.00
Stop Fre 3 00000000 GH										10.0
CF Ste 297.000000 MH Auto Ma	001-20151-004									30.0
Freg Offse 0 H	dintest de					10.00 M			TACK MANDAWA	50.0 10.10
Scale Typ			1							20.0 <b>110 100</b>
Log Li	.000 GHz 0000 pts)	Stop 3 7 ms (10	veep 286	SV		/ 300 kHz	#VBW			start 0.03 Res BW

#### Band12\_3MHz\_QPSK\_1\_0\_3000-8000 MHz



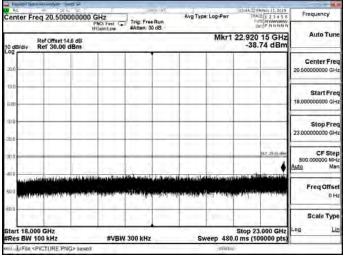
## Band12\_3MHz\_QPSK\_1\_0\_8000-13000 MHz

		-				_		म्माग की	nd un saulyter is				
Frequency	E 1 2 3 4 5 6 MWWWWWW F NN NN N	TRAC	Log-Pwr	Avg Type	e Run	Trig: Fre	NO: Fast	p	req 10.500	Center F			
Auto Tur	57 GHz 64 dBm	9.823	Mkr		30 dB	IFGain:Low #Atten: 30 dB. Ref Offset 13.5 dB							
			-		-		-	UDIN	Rei 30.00	10 dB/div			
Center Fre 10.50000000 GH			-		-					20.0			
Start Fre B,000000000 GF										0.00			
Stop Fre 13.00000000 GH										10.0			
CF Ste	151-2151-004		100		1					30.0			
Auto M			110			1.1				40.0			
Freq Offs 0 F	Anna Anna Anna	an Beachd	and species (Thankfact	the West Party		-		landa men din baha Manarangka baya	and the ast	50.0			
Scale Typ	11				1 100	100				60.0			
Log L	.000 GHz	Stop 13 0 ms (10	eep 480	Sw	,	300 kHz	#VBW		0 GHz 100 kHz	Start 8.0			
	tere brok				-			Instant Col	PICTURE PN	N. 2			

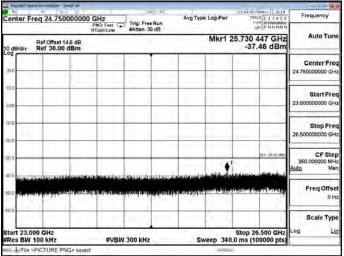
#### Band12\_3MHz\_QPSK\_1\_0\_13000-18000 MHz

Frequency	MNOV11.2019 (E) 27456 E PNNNN ET PNNNNN	TRA	e:Log-Pwr	Avg Ty	ee Run 30 dB	Trig: Fre	Gain:Low	¢.	eq 15.500	enter Fi
Auto Tune	61 GHz 79 dBm	13.680 -41.	Mkr1				CHILLED I	.6 dB	Ref Offset 13 Ref 30.00	dB/div
Center Fred 15.50000000 GHz						1				0.0
Start Fred 13,000000000 GHz										
Stop Free 18.000000000 GH										00
CF Ster 500.000000 MH Auto Mar	(5.1 - 21 55 am								-	00
Freg Offse 0 H	niconalie Memorine	andelia and	a di nativita por mangan	-	tal a comb		leaded of all		a go wing	
Scale Type	3.000 GHz	Stop 18 0 ms (10	veep 480		7	300 kH	#VBW	-		tart 13.0 Res BW

#### Band12\_3MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



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#### Band12\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E NYWYWWY F NNNNN	TRAC	:Log-Pwr	Avg Type	e Run 0 dB	Sec. 16-	IZ NQ: Fast G	PM	reg 1.51500	Center F
Auto Tur	5 6 MHz 41 dBm		Mkr1						Ref Offset 13 Ref 30.00 d	0 dB/div
Center Fre								•1		20.0
Start Fre 30.000000 MH										10.0 0,00
Stop Fre 3 00000000 GH										10.0
CF Ste 297.000000 MH Auto Ma	001-59-51-099									30.0
Freq Offso 0 F	Adiation No service	a tribuch ibr	alaalaan da alaalaan da					a la subs	and some stable	50.0 <b>Contra</b>
Scale Typ		1	100				1.641.55			eo o
Log L	.000 GHz 0000 pts)		eep 286	Sw	·	300 kHz	#VBW			Start 0.03 Res BW

#### Band12\_5MHz\_QPSK\_1\_0\_3000-8000 MHz

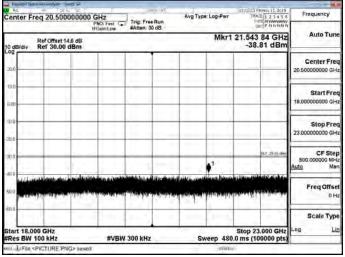
								entit 24	d annual date	Reprigit Semi	
Frequency	E 1 2 3 4 5 6	TRAC	Log-Pwr	Avg Type	Run	Trig: Free	NO: Fast	000000 G	eq 5.5000		
Auto Tur	Ref Offset 13.5 dB         Mkr1 3.940 66 GHz           0 dBidy         Ref 30.00 dBm         -40.64 dBm										
Center Fre 5.50000000 GH					_					20.0	
Start Fre										0.00	
Stop Fre 8.00000000 GH	1									00	
CF Ste 500.000000 MH Auto Ma	007-3955 <del>(19</del> 4			-	_			<b>↓</b> <sup>1</sup>		00	
Freq Offs 0 H	Jaloganii Martana	ala dalara April Papag						a breisens	Aller Street	ao	
Scale Typ	.000 GHz		- I.	-	-	127				tart 3.000	
	0000 gHz	.0 ms (10		SW	_	300 kHz		-	100 kHz	Res BW 1	
		e	10100-0				red	all traces blea	s changed, a	D Points	

## Band12\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

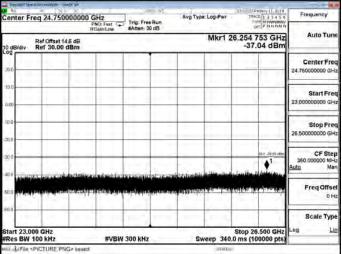
Equal ( and a second se		Run	Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.5 dB 0 dB/div Ref 30.00 dBm	GENELOW	00.	Mkr1 8	.933 66 GHz -42.19 dBm	Auto Tune
0.00					Center Free 10.500000000 GH
100					Start Fre 8,00000000 GH
00					Stop Fre 13.00000000 GH
x0 0				051-3151 dby	CF Ste 500.000000 MH Auto Ma
20.0 Antiperty and an antiperty and an	an Alexan I Candidan a			and tildenting, features,	Freg Offse 0 H
tart 8.000 GHz Res BW 100 kHz	#VBW 300 kHz		Saan 490 G	top 13.000 GHz ns (100000 pts)	Scale Type

				-	_		NA NO	minimity in the	
Frequency	TRACE   7 7 4 5 6	g-Pwr	Avg Type: La	Run	Trig: Free	O: Fast	FPM	15.5000	nter Fre
Auto Tun	17.467 79 GHz	Mkr1		0 dB	#Atten: 3	sain:Low	19.0	of Offset 13	
	-42.14 dBm			_	_			tef 30.00 d	
Center Free 15.50000000 GH								1	<i>6</i>
Start Fre 13,000000000 GH									0
Stop Fre 18.00000000 GH									0 0
CF Ster 500.000000 MH	151-2151-001		_	_					0
<u>Auto</u> Ma	+'			-	1				0
Freq Offse 0 H	and on the second			and the state	dela gara	The population		-	-
Scale Type								1	0
Log Li	Stop 18.000 GHz 0 ms (100000 pts)	480.	Swee		300 kHz	#VBW	1		art 13.00 es BW 1
		al aller				- Jett	l> baved	CTURE PN	UFIE S

#### Band12\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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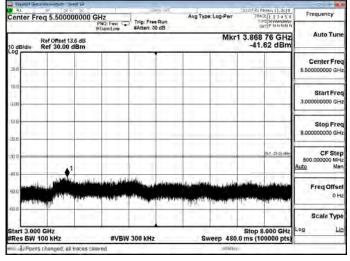


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#### Band12\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 Bywww.www. F ran ran h	TRAC	Log-Pwr	Avg Type	e Run 0 dB	Sec. 16	Hz PNO: Fast G	000000 G	reg 1.515	Center F
Auto Tun	5 7 MHz 76 dBm		Mkr1						Ref Offset Ref 30.00	10 dB/div
Center Fre 1 51500000 GH								•		20.0
Start Fre 30.000000 MH										0.00
Stop Fre 3 00000000 GH										10 0
CF Ste 297.000000 MH Auto Ma	001-20151-004			-						30 0
Freq Offse 0 H			and and		-		-		nktorośli	
Scale Typ			in the							70 0 PT
Log Li			eep 286.	SW		300 kHz	#VBW		30 GHz 100 kHz	Start 0.03

#### Band12\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



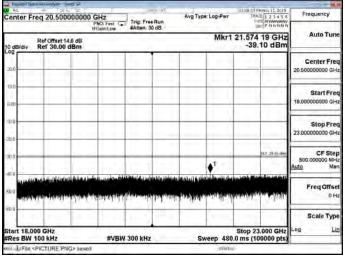
## Band12\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

Center Freq 10.500000000 C	Hz NO: Fast Trig: Fr Gain:Low #Atten:	ee Run 30 dB	Avg Type: Log-Pwr	03:07-53 FMMoy 11, 2019 TRIACE 1 2 3 4 5 6 THE M WWWWWW	Frequency					
Ref Offset 13.5 dB	Ref Offset 13.5 dB Mkr1 10.727 23 GHz JB/div Ref 30.00 dBm - 42.09 dBm									
.00					Center Fre 10.500000000 GH					
0.00					Start Fre 8,000000000 GH					
10.0					Stop Fre 13.00000000 GH					
20.0		.1		(X.1 -2) 51 die	CF Ste 500.000000 MH Auto Mi					
20 0 Madama Najara katika matajara na pina Mana pina na pina na pina na pina na pina	idad dalah sandikan Maripaten Kalanar Pro		leterane bernsteady Theory of the state	a distanti se anti se a Anti se anti se	Freq Offs 0 F					
#00 Start 8.000 GHz #Res BW 100 kHz	#VBW 300 kH		Sween 480	Stop 13.000 GHz	Scale Typ					

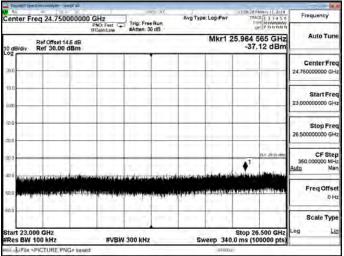
#### Band12\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

	-		_10000		-		भेंद्र मान	unionly provide	
Frequency	05 FMNoy 11, 2019 TRACE 1 2 3 4 5 6 THE MYWWWWW	r	Type: Log-Pwr	A	Trig: Free	-Iz	00000 GH	q 15.500	ter Fr
Auto Tun	19-302. 13 14	Internation water of the							
	42.16 dBm		Mkr1					Ref Offset 13 Ref 30.00	B/div
Center Fre 15.50000000 GH		-							
Start Fre 13,000000000 GH									
Stop Fre 18.00000000 GH									
CF Ste	01.3151.004								-
500.000000 MH Auto Ma	4121				12.1			1 1	12
FreqOffse	He with any	a la serie	Augustine and a source	a lucesta	d lasta los	de la forma bien	and stake	California and	Deski
01	wied badiestade	NAWA ANY	Mala su su line	distant on	un aller al	which we	- State all	and a dealer	THE R
Scale Typ		1.0	1. ( I. ) (					1000	1.5
Log Ll	18.000 GHz (100000 pts)	Stop 1 80.0 ms (1	Sweep 480		300 kHz	#VBW		0 GHz 00 kHz	t 13.00 s BW 1
			1000				> bayed	CTURE PN	L/File st

#### Band12\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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#### Band12\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	Z 1 2 3 4 5 6 S WWWWWW ET P TANTAN N	TRA	r Log-Pwr	Avg Type	e Run 0 dB	Trig: Free #Atten: 3	Z O: Fast G	PN	reg 1.51500	Center F	
Auto Tun		Ref Offset 13.5 dB Mkr1 711,413 9 MHz B/div Ref 30.00 dBm 25.67 dBm									
Center Fre 1 515000000 GH								•1		20.0	
Start Fre 30.000000 MH										0.00	
Stop Fre 3 00000000 GH										10.0	
CF Ste 297.000000 MH Auto Ma	001-29.51.009			-				-	-	30 0	
Freq Offse 0 H	manufan	Linney and		-		. toman	ni Olateda i		contrastilizate		
Scale Typ			1			1		81 ann	and the day over the	40 U 194 10	
Log Li	.000 GHz 0000 pts)	Stop 3 7 ms (10	eep 286	SV		300 kHz	#VBW			Start 0.03 Res BW	

#### Band12\_5MHz\_QPSK\_1\_0\_3000-8000 MHz

Keynett (seit annanduter innett Sit		- 1947		113-11-125 PA	Noy 11, 2019	
Center Freq 5.50000000 GHz	Fast Trig: Free F	Avg Type Run	Log-Pwr	TRAC	E 1 2 3 4 5 6	Frequency
Ref Offset 13.5 dB 0 dB/div Ref 30.00 dBm	Auto Tun					
.00	1 1 1					Center Fre 5.50000000 GH
0.00						Start Fre 3,000000000 GH
100						Stop Fre 8.000000000 GH
30 0	-				001-3951-054	CF Ste 500.000000 MH Auto Ma
50.0 hitsita on the state of th		idal a talay a set of the last	ing to all the		1999 - 1999 1999 - 1999	Freq Offse 0 H
Res BW 100 KHz	#VBW 300 kHz	Sw	eep 480.0	Stop 8 0 ms (10	.000 GHz 0000 pts)	Scale Typ

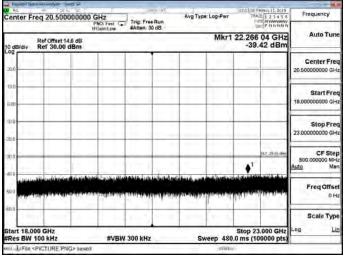
# Band12 5MHz OPSK 1 0 8000-13000 MHz

Ferrigi ( ferrit annamily) ministra Shi	_					10 M / 10	
Center Freq 10.5000000	00 GHz PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type	Log-Pwr	TRA	1 2 3 4 5 6	Frequency
Ref Offset 13.5 dB	Auto Tun						
20.0							Center Fre 10.500000000 GH
10.00							Start Fre B,000000000 GH
100							Stop Fre 13.000000000 GH
20.0	-			-	<b>A</b> 1	001-29.51.00M	CF Ste 500.000000 MH Auto Ma
20 0 and a standard and a standard		i instalia iline site ere River i eligi a timore		lah tanan Ingeranan	-	a mudau a mudau	Freq Offs 0 F
	#VBW	300 kHz	Sw	eep 480	Stop 13	.000 GHz	Scale Typ
Start 8.000 GHz #Res BW 100 kHz		300 kHz	Sw	eep 480	.0 ms (10	.000 GHz 0000 pts)	Log

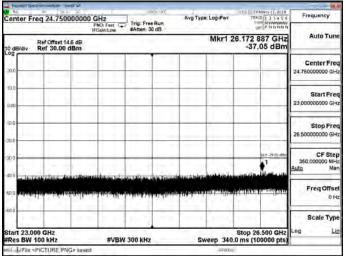
#### Band12\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

Frequency	9 FMNov 11, 2019 RACE 1 2 3 4 5 6 THE NYWWWWW DET P NIN NIN N	03:120	e: Log-Pwr	AvpT	e Run	Trig: Fre	iHz NO: Fast G	p	eq 15.500	enter Fi
Auto Tune	2 86 GHz 2.20 dBm	r1 13.67	Mkr1				CHICKON .	8.5 dB	Ref Offset 1 Ref 30.00	0 dB/div
Center Fred 15.50000000 GHa					-					20.0
Start Fred 13,00000000 GHz										10 0 0.00
Stop Free 18.00000000 GH										100
CF Step 500.000000 MH; Auto Mar	25.1 -21.51.004									200
Freg Offsel 0 Ha	-	e die beerk	inite plane i	nicotalia Proprieto			and an a link			10,1-10 90,0
Scale Type	18.000 GHz 100000 pts)	Stop	weep 480			300 kHz	#VBW			tart 13.0

#### Band12\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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## Band12\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.51500	0000 GHz PNO: Fas	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	03 04-51 FMM9/ 11, 2019 TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13, 10 dB/div Ref 30.00 d	6 dB Bm	227	Mkr1	699.622 9 MHz 25.18 dBm	Auto Tune
20.0	•1				Center Free 1 515000000 GH
0.00					Start Free 30.000000 MH
100					Stop Fre 3.00000000 GH
30.0	-			DC1-29-59-694	CF Step 297.000000 MH <u>Auto</u> Ma
50.0 relation to the state		and all the second the second	and today and on taking		Freq Offse 0 H
FRO DATE OF THE STATE OF THE ST		/BW 300 kHz		Stop 3.000 GHz 3.7 ms (100000 pts)	Scale Type

## Band12\_10MHz\_QPSK\_1\_0\_3000-8000 MHz

								the imperiation	(Spectrumount)	Feying
Frequency	1 2 3 4 5 6 E 1 2 3 4 5 6 E MWWWWW	TRAC	CLog-Pwr	Avg Typ	e Run	10.00	Hz PNQ: Fast G	500000000 G	Freq 5.50	
Auto Tun	72 GHz 56 dBm		Mkr		50 GD	WALLER .	FORMELOW	fset 13.5 dB 0.00 dBm	Ref Offse	0 dB/d
Center Fre 5.50000000 GH	-				-					20.0
Start Fre 3,000000000 GH										10:0 0:00
Stop Fre 8.00000000 GM										10 0
CF Ste 500.000000 MH auto Ma	001-2050.004					i				30.0
Freq Offs 0 F		-			and a day	all the second		and the state of t		50.0
Scale Typ	.000 GHz	Stop 9					1		.000 GHz	tart 3

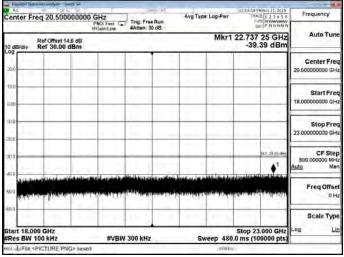
## Band12 10MHz OPSK 1 0 8000-13000 MHz

Center Freq 10.500000000	GHz PNO: Fast			ie: Log-Pwr	WF TRACE   2 3 4 3 ITTACE   3 4 3		Frequency
Ref Offset 13.5 dB	Auto Tune						
20.0						-	Center Free 10.50000000 GH
0.00							Start Free 8,000000000 GH
10.0							Stop Fre 13.000000000 GH
30.0						001-59.51.004	CF Ste 500.000000 MH <u>Auto</u> Ma
40.0		a a sirasi asaa aa		a dan yan yan yan yan yan yan yan yan yan y			Freq Offse 0 H
*00 Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	S	weep 480	Stop 13	000 GHz	Scale Typ

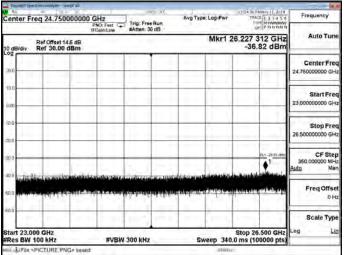
#### Band12\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

							anneadyle - Subly 34	
Frequency	10304.06 FMNov 11, 2019 TRACE   2 7.4 5.6	Log-Pwr	Avg Type	Free Run	1 A	00 GHz PNO: Fast	15.50000000	Center Fr
	DET P NNNN N			€ 30 dB	#Atten	IFGain:Low		
Auto Tun	15.557 68 GHz -42.58 dBm	Mkr1					ef Offset 13.5 dB ef 30.00 dBm	10 dB/div
Center Fre	1-1-1							log
15.50000000 GH			-	-	-	-	1 1 1	20.0
		<u> </u>		-	-	_		10.0
Start Fre 13,00000000 GH		-		-	-	-		0.00
Stop Fre 18.00000000 GH		1		-		-		10.0
				-	100	11.1.1.1	1 1 1 1 1	30.0
CF Ste	001-39.51.654							30.0
500.000000 MH Auto Ma	111122	12.0		A1	110	1111	1	40.0
FregOffse	AND A DESCRIPTION OF THE OWNER OF	Lunderen M	white the second second	and house as	-	under a sure		unin
0H	- Mendate production	information of	(paysolution)	approximit	(maintuck)	unnity insuition		50.0
Dist. To.			-	1				10.0
Scale Typ	dama transf			1				
Log Li	Stop 18.000 GHz 0 ms (100000 pts)	eep 480.	Sv	HZ	BW 300 kH	#VBI		Start 13.00
				107			CTURE PNG> seved	

#### Band12\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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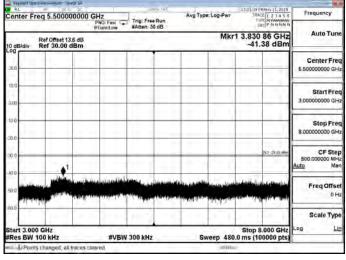


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### Band12\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.51500	0000 GHz PNO: IFGain		ree Run 30 dB	Аур Туре:	Log-Pwr	0102 39 PMMsy 11, 2019 TRACE 1 2 7 4 5 6 112 20 20 20 20 20 20 20 20 20 20 20 20 20	Frequency
Ref Offset 13.					Mkr1	703.038 4 MHz 25.63 dBm	
20.0	•1		-				Center Free 1 515000000 GH
0.00							Start Fre 30.000000 MH
10 0							Stop Fre 3.00000000 GH
30.0	1				-	151 - St 15 464	CF Step 297.000000 MH Auto Ma
50.0 milder in continues			al algo band	windowskie			Freq Offse 0 H
FOO DE TRANSPORTANTE DE LA CONTRACTORIA DE LA CONTR	To be offered from	#VBW 300 ki		Sw	aan 296	Stop 3.000 GHz .7 ms (100000 pts)	Scale Type

## Band12\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



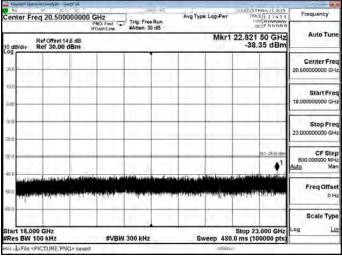
## Band12\_10MHz\_QPSK\_1\_0\_8000-13000 MHz

Feynige I fam 2 with some lyter Swept Sk			_1_0_0000		
Center Freq 10.5000000	00 GHz PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	03:01:51 PM Nov 11, 2019 TRACE 1 2 3 4 5 6 THE MANNAN DET P NANNA M	Frequency
Ref Offset 13.5 dB	IFGam:Low	WAREN SU US	Mkr1	10.827 68 GHz -42.75 dBm	Auto Tuni
20.0	-	-	-		Center Fre 10.50000000 GH
0.00					Start Fre 8,000000000 GH
300					Stop Fre 13.00000000 GH
30.0				151-3151 disc	CF Ste
40.0	1111	A1	22.12.1	1.011.011	500.000000 MH Auto Ma
500	anticul autors	starting alle	design of the solution	hele the states	Freq Offse
edura devidoral	and how for a diffe	dan sa ang ang ang ang ang ang ang ang ang an	a supply her a passibility	Condition of the state	
		$   =   _{\mathcal{T}_{1}}^{2}   _{\mathcal{T}_{2}}^{2} =   $	2000 B	1.11.11	Scale Typ
Start 8.000 GHz #Res BW 100 kHz	Stop 13.000 GHz .0 ms (100000 pts)	Log			
UFIE SPICTURE PNG> be	0.000	300 kHz	anotp too		

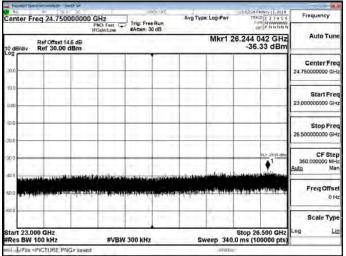
#### Band12\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

				-	_		THE SA	minimity for San	işi t Seman	
Frequency	10300 16MMoy 11, 2019 TRACE 1 2 3 4 5 6 11 5 MWWWWW Det P NUMUM	Pwr	Avg Type: I	eRun	Trig: Fre	Or Fast	p	15.5000	er Fred	Cen
Auto Tun	17.581 75 GHz	Mkr1	_	0 dB	#Atten: 3	sain:Low	IF		-	_
	-42.02 dBm	VIN 1	_			_	i5 dB 1Bm	ef Offset 13 ef 30.00 d	/div R	10 dE
Center Free	Condition of						-	1		
					-	1		1	1000	20.0
Start Fre			-		-					10.0
13,00000000 GH		_			1.1	1.1			-	0,00
Stop Fre 18.00000000 GH										10.0
		_							1.0	30.0
CF Ste	15.1 -21.51 dies			1.7			_			
500.000000 MH Auto Ma	41		1.1		1.1	1.11	12.2	11.1	1.11	30.0
FregOffse	الغالب والعام والعامل	and and	Line Reduction	w. bis and		ubruk alle	auto deut.	James		40.0
0H	white the second	diam'r		in a state of	-	windowing		1.0000	(Antenna)	50.0
Scale Typ		-		-						60.0
Log Lit	Stop 18.000 GHz	Start 13,000 GHz Stop 18,000 GHz								
	) ms (100000 pts)	480,	Swe	-	300 kHz	#VBW	-	O KHZ	BW 10	

#### Band12\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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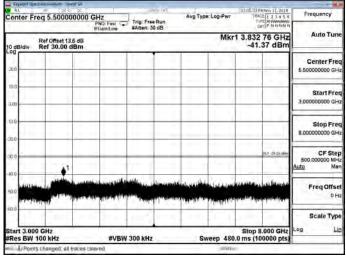
# Report No.: E2/2019/90045 Page 395 of 645



## Band12\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.515000000 G	Hz PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type	Log-Pwr	TRAC	1 2 3 4 5 6 E MYWWWWW F MW/MWW	Frequency
Ref Offset 13.5 dB				Mkr1		2 5 MHz 73 dBm	Auto Tune
20.0							Center Fre
10.0							Start Fre 30.000000 MH
100							Stop Fre 3.00000000 GH
300						(XT-2) 51 (6)-	CF Ste 297.000000 MH Auto Ma
500 Insulan Julius Alexe (11) Andre			and summer a	an an an a set of		A ASSESS	Freg Offse 0 H
*0.0		300 kHz		eep 286	Stop 3 .7 ms (10	.000 GHz 0000 pts)	Scale Type

## Band12\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



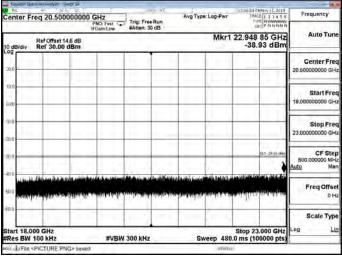
## Band12 10MHz OPSK 1 0 8000-13000 MHz

Feyngel (per 2 normally) are integrish	_				
Center Freq 10.5000000	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	103:05:45 FM Nov 11, 2019 TRACE 1 2 3 4 5 6 11/C NOVING N	Frequency
Ref Offset 13.5 dB	IFGam Low	anden: St DD	Mkr1	11.486 83 GHz -42.37 dBm	Auto Tune
20.0					Center Free 10.50000000 GH
0.00					Start Fre B,000000000 GH
10.0					Stop Fre 13.000000000 GH
30.0				pur - 20 60 aber	CF Ste 500.000000 MH Auto Ma
	skelennesitte sålet monte spenere	- in a second second	a san praslanda Ibala in sa man prising an general anai	terre a second second and a seguriter of the second second	Freq Offse 0 H
*00 Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	Sween 480	Stop 13.000 GHz .0 ms (100000 pts)	Scale Typ
UFIC SPICTURE PNG> bew	0.000		GHCCP 400		

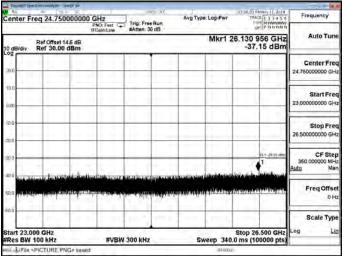
#### Band12\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

	2 minutes in	भेद्र माम		_					and the second second	
Center Fr	eq 15.500	P	VO: Fast	Trig: Free		Avg Type	: Log-Pwr	TRAC	1 2 3 4 5 6 E NWWWWW	Frequency
	Ref Offset 13	IFC dB	sain:Low	#Atten: 3	dB		Mkr1	15.447	67 GHz 93 dBm	Auto Tune
0 dB/div	Ref 30.00	dBm	_				-	-41.	SS GBII	
20.0				-	-	-			1	Center Fre 15.50000000 GH
0.00										Start Fre 13,000000000 GH
10 0 30.0										Stop Fre 18.000000000 GH
10.0							10		DC1-29-51-094	CF Ste
610				1			12.5			500.000000 MH Auto Ma
50.0	Deficier	Statio Liz		. destail	Seekald.	and the second	-		and the lot of the	FreqOffse
diaman de	and there	1	hundler	hornoritale	<b>Kolenda</b>	and a dealer	- Manager	al anima	det reference	0H
60.0	1		1.	100					1	Scale Typ
Start 13.00			#VBW	300 kHz		SV	veep 480	Stop 18	.000 GHz	Log Li
UFIe s	PICTURE PN	G> bayed			-		all			t

#### Band12\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band12\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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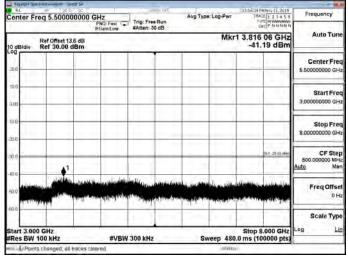
# Report No.: E2/2019/90045 Page 396 of 645



#### Band13\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E M WWWWWW ET P NN NN N	TRAC	Log-Pwr	Avg Type	Run 0 dB	Trig: Fre	Z IQ: Fast G	Ph	reg 1.51500	Center F
Auto Tur	8 9 MHz 15 dBm		Mkr1					.5 dB IBm	Ref Offset 13. Ref 30.00 c	10 dB/div
Center Fre 1 515000000 GH	-							<b>•</b> 1		20.0
Start Fre 30.000000 MH										0.00
Stop Fre 3.00000000 GH										10.0
CF Ste 297.000000 MH Auto Ma	001-20150-009									30.0
Freq Offso 0 H	Constraint,	ani ana				an foirean		well with	ed-antikan	
Scale Typ		1	1	-			19.00		Pro Manuel and	10.0
Log 1		Start 0.030 GHz Stop 3.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 286.7 ms (100000 pts								

#### Band13\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



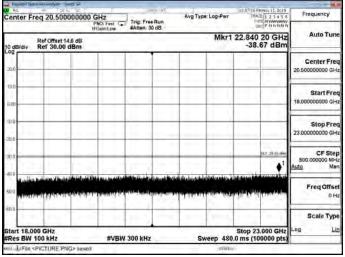
## Band13\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

	D PMMBy 11, 2019	111-56-65		_		-	94 X	annead for any	Feynight Ser
Frequency	MACE 123456	740	Type: Log-Pwr		g: Free Run tten: 30 dB	ast .	PNO:	eq 10.5000	Center F
Auto Turn	00 16 GHz 1.84 dBm	r1 9.000	Mkr		tten: 30 db	Low		Ref Offset 13.0 Ref 30.00 d	0 dB/div
Center Free 10 500000000 GH					-				20.0
Start Free 8,000000000 GH									10-0 0,00
Stop Fre 13.00000000 GH									10 Ö
CF Ste 500.000000 MH Auto Ma	DL1-2153-004						1		30.0
Freq Offse 0 H	diebanie stato. Prantini anglei	La horredut	alikatina ana ana		dan seleses Researces	openager.	npoperante.	1 - 101-000 9 - 110 - 1903	50.0
Scale Typ									10.0
Log Li	13.000 GHz (100000 pts)	Stop 1	Sweep 480		kHz	#VBW 3			Start 8.00 Res BW
	in the prov			_				PICTURE PNG	

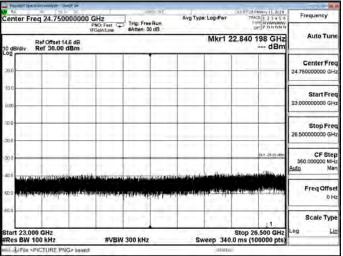
#### Band13\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

Center Fi	eq 15.500	p	NO: Fast	Trig: Free	Run	Avg Type	Log-Pwr	TRA	MNOV15,2019 2 127456 C MWWWWWW ET P NNNNN	Frequency
10 dB/div	Ref Offset 1 Ref 30.00	3.5 dB	Control         Serie 10.08         Control         Auto           Mkr114.07146 GHz	Auto Tune						
20.0									1.1	Center Fred 15 50000000 GHz
0.00							-			Start Fred 13,00000000 GH:
10.0										Stop Free 18.00000000 GH
30.0		1							151-2151. <del>00</del> 4	CF Step 500.000000 MH Auto Mar
50.0	ANT PROPERTY	an front a		har and the for			n la cine a cine Préparent services	- Education	liker and	Freg Offse 0 H
Start 13.0			#VBW	/ 300 kHz		Sw	eep 480	Stop 18	.000 GHz	Scale Type

#### Band13\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band13\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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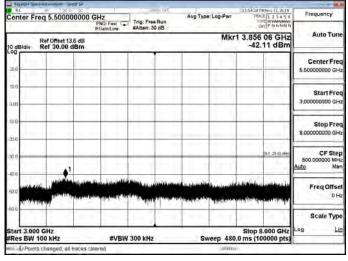
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## Band13\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	MNoy 11, 2019 CE 1 2 3 4 5 6 I C MYWYWWY ET F NN KIN N	TRAC	r Log-Pwr	Avg Type	e Run 0 dB	1.0.0	Z NO: Fast G	P	req 1.51500	Center F
Auto Tur	3 1 MHz 33 dBm		Mkr1						Ref Offset 13. Ref 30.00 d	0 dB/div
Center Fre										20.0
Start Fre 30.000000 MH										0.00
Stop Fre 3.00000000 GH										10.0
CF Ste 297.000000 MH Auto Ma	(\$1-2) <u>61 (89</u>				-					30 0
Freq Offso 0 H	a star and		Licentide			a sa ta dal	ant de de		and the second diversion of th	-40.0
Scale Typ							-t (t- iffer -		STATE OF STATE	70.0
Log L	0000 GHz	Stop 3 7 ms (10	eep 286.	Sw		300 kHz	#VBW	·		start 0.03

## Band13\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



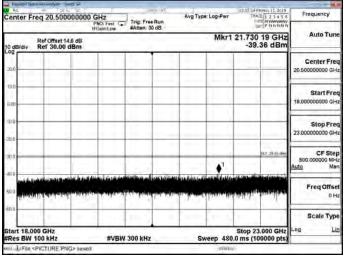
## Band13\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

Repugnit Spectrum with Swept S		-005-047		03-54-56 PM Nov 11, 2019	
Center Freq 10.500000	PNO: Fast C		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TIPE MWWWWWW DET P NN NN N	Frequency
Ref Offset 13.5 d 0 dB/div Ref 30.00 dBr	3	WARKER SU GD	Mkr1	10.147 62 GHz -42.30 dBm	Auto Tune
20.0					Center Free 10.50000000 GH
0.00					Start Free 8,000000000 GH
100					Stop Fre 13.00000000 GH
20.0		<b>∧</b> 1		(K1-3) 51 dbe	CF Step 500.0000000 MH Auto Ma
	sta ok a filma i	andressen all the second	diana) and a sind a		Freg Offse 0 H
ro o					Scale Type
Start 8.000 GHz Res BW 100 kHz	#VBW	300 kHz	Sweep 480	Stop 13.000 GHz	Log Lir
DEL FILE SPICTURE PNG> 1	aved		at at a		

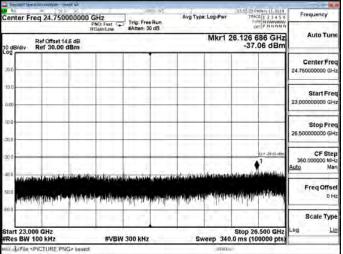
#### Band13\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

		-		_			HTT SA	-1		
Frequency	PMMoy 11, 2019 ACE 1 2 3 4 5 6	749	ype:Log-Pwr		ig: Free Run	Hz	000000 G	req 15.500	Center F	
Auto Tun	and stranger				Atten: 30 dB	O: Fast 🕞	IFC			
Adio Tuk	8 99 GHz 18 dBm		Mkr1		1.1	Ref Offset 13.5 dB B/div Ref 30.00 dBm				
Center Free		1	1.1			1.1.1			og	
15.50000000 Gi Start Fre 13.00000000 Gi Stop Fre		-	-	-					20.0	
15.50000000 GH Start Fre 13,00000000 GH Stop Fre	1	-	-	-		-		-	10.0	
13,000000000 GH	-	-	-	-	-				0,00	
	-	-	-	_	-		_		10.0	
18.00000000 GH		_	_	_		1.11			30.0	
CF Ste	DC1 -29 55 mm						_		-	
500.000000 MH Auto Ma	1.201		100	112		1.11			30.0	
FregOffse	and and and a	in the bir	Manager and	and a store		a		an destaura	40.0	
0 H	in the second	tial Bould	ALL DAVID AND THE	at the second	prove the	NAME AND A	Markin and a	and all the lot	50.0	
Scale Typ	-						/		10.0	
	n (*	10.00	1.1		11			1.0		
Log	8.000 GHz 00000 pts)	Start 13,000 GHz Stop 18,000 GHz Stop 18,000 GHz #VBW 300 kHz Sweep 480,0 ms (100000 pts)								
		ave:					G> bayed	PICTURE PN	L. LIFIE	

#### Band13\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band13\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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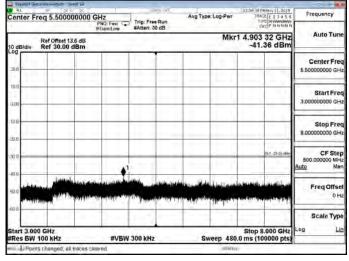


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#### Band13\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.5150000	PNO	GHz PNO: First Trig: Free Run #Atten: 30 dB			Avg Type: Log-Pwr		TRAC	E 1 2 3 4 5 6 P NNNN N	Frequency
10 dB/div Ref 30.00 dBn								6 MHz 53 dBm	Auto Tune
20.0	<b>*</b> <sup>1</sup>								Center Free 1 515000000 GH
0.00									Start Free 30.000000 MH
300									Stop Fre 3 00000000 GH
300	-							001-29-51-094	CF Stej 297.000000 MH <u>Auto</u> Ma
50.0 conter d'alute travaile		J.R. St.	ne na na na na Na na	Contractor of	e e parti Vicio Parti Maria				Freg Offse 0 H
*0.0 Start 0.030 GHz #Res BW 100 kHz		#VBW	300 kHz		Sw	eep 286	Stop 3 .7 ms (10	.000 GHz 0000 pts)	Scale Type

#### Band13\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



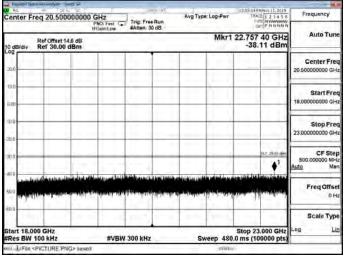
## Band13 5MHz OPSK 1 0 8000-13000 MHz

Center Freq 10.50000000	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	03:54:50 FMNoy 11, 2019 TRACE   2 7 4 5 6 Intel Management	Frequency
Ref Offset 13.5 dB	IFGain:Low	#Atten: 30 dB	Mkr	1 9.868 42 GHz	Auto Tune
10 dB/div Ref 30.00 dBm				-42.88 dBm	
00					Center Free 10 50000000 GH
10 0 0.00					Start Fred 8,00000000 GH:
180					Stop Free 13.000000000 GH
200				(X1-3155-004	CF Step 500.0000000 MH Auto Mar
en of the second s	energenergenergenergenergenergenergener	an a			Freq Offse 0 H
*0.0 Start 8.000 GHz		100	100	Stop 13.000 GHz	Scale Type
#Res BW 100 kHz		300 kHz	Sweep 480	0.0 ms (100000 pts)	

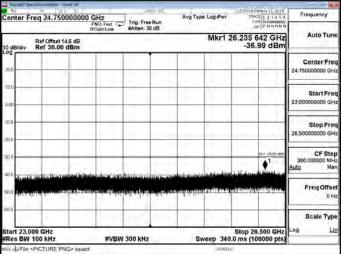
### Band13\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

Frequency	MANY 15, 2019	03:59:01 PM			vin (N)		r T	X.L.	- 1×1	L		
11040000	E 123456	100	Log-Pwr	Avg Type	Run	Trig: Fre	HZ O: Fast	p	q 15.500	ter Fr		
Auto Tun	75 GHz 21 dBm		Mkr1			and and a	Ref Offset 13.5 dB B/div Ref 30.00 dBm					
Center Fre	1											
Start Fre 13.000000000 GH												
Stop Fre 18.00000000 GH												
CF Ste	001-29.51.004											
500.000000 MH Auto Ma			110	1.1	-		1.11		tz. 1	1.11		
Freq Offse 0 H	Present and	approximation	1. 	aradiaraya aratikaraya	anian (Bas)	111.00 A A A	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		a la Historia	it. inter		
Scale Type						-			-			
Log Li	.000 GHz	Stop 18	een 480	SW		300 kHz	#VRW	-	GHz 00 kHz	t 13.0		
	occo prov				-	000 1111		In a second second	ICTURE PN			

#### Band13\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band13\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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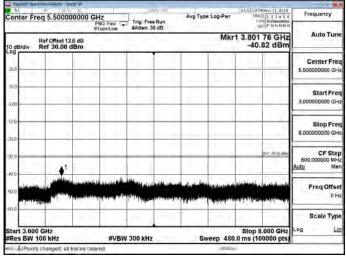
# Report No.: E2/2019/90045 Page 399 of 645



### Band13\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6 THE MYWWWWW DET P PANTAN N	Log-Pwr	Avg Type	e Run 0 dB	10.00	Z VQ: Fast G	PI	reg 1.51500	Center
Auto Tuni	77.586 2 MHz 24.79 dBm	Mkr1						Ref Offset 13 Ref 30.00 d	10 dB/div
Center Free 1 51500000 GH	_						•1		20.0
Start Free 30.000000 MH									10:0 0:00
Stop Fre 3.00000000 GH									10 0 co.o
CF Ste 297.000000 MH Auto Ma	(X1-3) 61 <del>691</del>		-						-30 0
Freq Offse 0 H	manifitmushi may any angel		e a straide	a Latin (mail	ul de la				-82 0 -50 0 Mar
Scale Type	Stop 3.000 GHz ms (100000 pts)	eep 286.	Sw		300 kHz	#VBW	and its a second	30 GHz 100 kHz	Start 0.0

## Band13\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



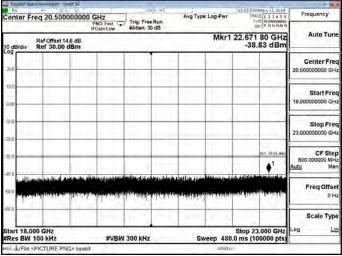
## Band13 10MHz OPSK 1 0 8000-13000 MHz

Ferriquet General annum Varm Sweet Sk	P		_1_0_0000	03:57:40 PM Moy 11, 2019	
Center Freq 10.50000000	PNO: Fast	101 A 16	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.5 dB	FORM	SALLER, OU US	Mkr	1 9.708 97 GHz -42.86 dBm	Auto Tune
0.00					Center Free 10.50000000 GH:
0.00					Start Free 8,000000000 GH
10.0					Stop Free 13.000000000 GH
30.0	<b>A</b> 1			(K.1 - 21 55 alber	CF Ster 500.0000000 MH Auto Ma
20 0 Martin Strates and Labor		alerical contract A. Bos Performent property pro-	a dan se i di la dan se	na ana ana ana ana ana ana ana ana ana	Freq Offse 0 H
#0.0 Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	Sween 480	Stop 13.000 GHz	Scale Type
UFIG SPICTURE PNG> beve	4.55.63	SOC MIL	unicep too		

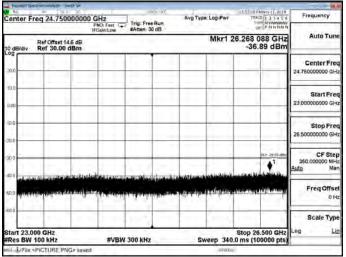
Band13_10MHz_0	QPSK_1_0	)_13000- <sup>-</sup>	18000 MHz
----------------	----------	-----------------------	-----------

	100 10 100			<u></u> .			_	Se Ribbe	2 minimity (Pro-	
Frequency	PMNoy 11, 2019 RACE 1, 2 7 4 5 6	TRA	Log-Pwr	Avg Type	ree Run	1.0.0	GH2 PNO: Fast C.	0000000	eq 15.500	nter Fr
Auto Tun	8 12 GHz 1.80 dBm	15.278	Mkr1		30 dB	#Atten: 3	IFGein:Low	13.5 dB	Ref Offset 1 Ref 30.00	dB/div
Center Fre 15.50000000 GH										0
Start Fre 13,000000000 GH										0
Stop Fre 18.00000000 GH										0
CF Ste 500.0000000 Mi Auto Mi	(X.120.53 min)				-	4		-		0
Freq Offs 01	Andrew alterna Antreaterna esta		and an interest of	1				a contra o	and Anima	
Scale Typ	18.000 GHz	Stop 1		-					00 GHz	art 13.0
	100000 pts)	0 ms (1	veep 480	SW	z	V 300 kHz	4364	NC2 haved	PICTURE P	12.211.

#### Band13\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band13\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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# Report No.: E2/2019/90045 Page 400 of 645

#### Inband-1\_Band13\_5MHz\_QPSK\_1\_0\_763-775 MHz

		Run	Trig: Free	NO: Wide La	PUUU MPL	1 / 69,000	Center Fre
68.499 05 Mi -48.05 dE	dB	#Atten: 30	Galerkow	Ref Offset 13.5 dB			
						-	20.0
							0.00
							10 0
aurianan							200
ويتلومون والهرما المتويد		4.1.	damhaut	by survicities;			50.0 Norther
Stop 775.000 M			1957		-	0 MHz	Start 763.00
	48.05 dE		-48.05 dE	-48.05 dE	-48.05 dE	-48.05 dE	-48.05 dE

#### Inband-2\_Band13\_5MHz\_QPSK\_1\_0\_793-805 MHz

Keynent forst unsimilater Swept SA			- Townson	03140143444407 12,2019	- Provident
Center Freq 799.000000 M	Hz PNO: Wide Cal Trig	: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13,5 dB	FGale Low #At	ten: 30 dB	Mkr1 79	6.319 35 MHz -48.62 dBm	A. 44 Mar.
20.0		-			Center Fre 799.000000 MH
10.0					Start Fre 793.000000 MH
100-					Stop Fre 805.000000 MH
300				Sur -m m m	CF Ste 1.200000 MH Auto Ma
an billed a below a second de la second	) 		والمراجع والمرجع والمرجع والم		Freq Offse 0 H
20.0					Scale Type
Start 793.000 MHz #Res BW 100 kHz	#VBW 300	kHz		top 805.000 MHz ms (100000 pts)	Log Li
D Points changed; all baces cir	ared	ana a	101101	101-10-10-10-10-10-1	

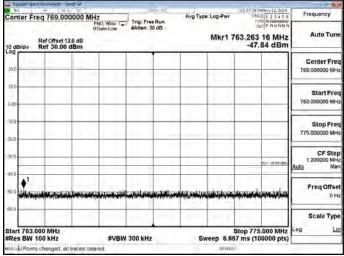
## Inband-1\_Band13\_5MHz\_QPSK\_1\_0\_763-775 MHz

Frequency	1 2 3 4 5 6 MWWWWWW	TRA	Log-Pwr	Avg Type	Run	Trig: Free	O; Wide 🕞	FN	769.000	nter Freq
Auto Tun	Mkr1 763.439 92 MHz -46.64 dBm							6 dB	f Offset 13. ef 30.00 d	B/div R
Center Fre 769.000000 MH										
Start Free 763.000000 MH										) )
Stop Fre 775.000000 MH										
CF Step 1 200000 MH Auto Ma	tur di di dini				_	-				
Freq Offse 0 H		mijunter	nin huli nij	(multilities	-	Nel-Incolo		-		Minner
Scale Type	.000 MHz	Stop 775	1	-		10.7		-	MH2	1 763.000
	0000 pts)	7 ms (10		Sw		300 kHz		anas binau		s BW 10

#### Inband-2 Band13 5MHz QPSK 1 0 793-805 MHz

	MNoy 12, 2019	TRAC	ELog-Pwr	Avg Type	NON UNIT	Trig: Fre	z	0000 MH	eq 799.000	BL BL		
Auto Tune	Mkr1 795.748 27 MHz -47.78 dBm					#Atten: 3	NO: Wide Call Gale Low	Ref Offset 13.5 dB				
Center Free 799.000000 MH										20.0		
Start Fre 793.000000 MH										10:0 3:00		
Stop Fre 805.000000 Mi-										(0 0 30 0		
CF Ste 1.200000 MH Auto Ma	tur oranam					-				00		
Freq Offse 0 H	-	annydarfi	Hiresian	-		-		+1 maglityiman	lines and a	50.0		
Scale Typ			1							80 Ú		
	5.000 MHz 00000 pts)	7 ms (10		Sv	1	300 kHz		1		Res BW 1		

#### Inband-1\_Band13\_5MHz\_QPSK\_1\_0\_763-775 MHz



#### Inband-2\_Band13\_5MHz\_QPSK\_1\_0\_793-805 MHz

Keyniget (Spectrum sound) are month \$4						
Center Freq 799.000000	WH2			Log-Pwr	01 41:15 PM Noy 12, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.5 dB 0 dB/div Ref 30.00 dBm	Price Wate         Trig: Free Run BAtten: 30 dB         Price Wate           Batten: 30 dB         Mkr1 794.535 30 MHz           Ref 30.00 dBm         -47.55 dBm				Auto Tun	
20.0						Center Free 799.000000 MH
0.00						Start Free 793.000000 MH
10.0						Stop Fre 805.000000 MH
00					501-0105 BM	CF Ste 1.200000 MH Auto Ma
↓ <sup>1</sup>			contractions	launterinensila	y, mich / mic	Freq Offse 0 H
ro ù	-	1.5	<			Scale Type
Start 793.000 MHz Res BW 100 kHz		300 kHz	Sv		Stop 805.000 MHz 7 ms (100000 pts)	Log

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#### Inband-1\_Band13\_10MHz\_QPSK\_1\_0\_763-775 MHz

	MNoy 12, 2019				and INT.			-10 Kill	d unsimple for	Feynight Sea		
Frequency	CE 1 2 3 4 5 6	TRA	ELog-Pwr	Avg Type		Trig: Fre	Z NO: Wide 😱	0000 MH	eq 769.00			
Auto Tun	05 MHz	Mkr1 767.566 05 MHz -47.65 dBm				#Atten: 3	Gain Low	Ref Offset 13.5 dB dB/div Ref 30.00 dBm				
Center Fre 769.000000 MH					-					x0		
Start Fre 763.000000 MH										0.00 		
Stop Fre 775.000000 MH										00		
CF Ste 1.200000 MH Auto Ma	Sui -Julia am					-				00		
Freq Offse 0 H	Otostalan			-				disal millio	handrainten	50.0 Marina		
Scale Typ			1000		-	in the second	1		000 MHz	90 Ú		

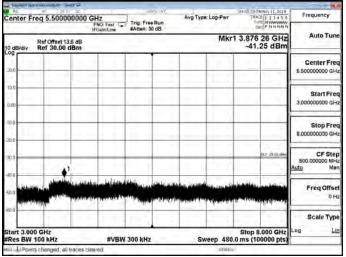
#### Inband-2\_Band13\_10MHz\_QPSK\_1\_0\_793-805 MHz

Figure 1 Section and the Section State	Raffer 1	-90-197	Avp Type: L	(0)-	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6 dB 0 dB/div Ref 30.00 dBm	EMO-Works T	Trig: Free Run #Atten: 30 dB		Mkr1 803.	460 38 MHz 47.69 dBm	Auto Tun
20.0						Center Fre 799.000000 MH
0.00						Start Fre 793.000000 MH
20.0						Stop Fre 805.000000 Mi
20.0					5c1-310100	CF Ste 1.200000 MI Auto M
1	onintern terrolog		warman and		s dath a minister staff	Freq Offs 01
£0.0						Scale Typ
Start 793.000 MHz #Res BW 100 kHz	#VBW 3	00 kHz	Swee		805.000 MHz s (100000 pts)	
D Points changed; all baces	cieared.			and a state of		

#### Band14\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E NUMPER N	TRAC	Log-Pwr	Avg Type	e Run 30 dB	100.00	Z IQ: Fast G	FIN	req 1.51500	enter F	
Auto Tuni	Ref Offset 13.5 dB Mkr1 788.337 7 MHz 0 dB/div Ref 30.00 dBm 25.59 dBm										
Center Free 1 51500000 GH	-							•1		20.0	
Start Free 30.000000 MH										10 0 0.00	
Stop Free 3.00000000 GH										100	
CF Step 297.000000 MH Auto Mar	DCT -29 55 494				-					30 0 40 0	
Freq Offse 0 H	tion to make	skate sete		and A lines	Kine Official		debaught a		www.anadu		
Scale Type	.000 GHz 0000 pts)	Stop 3 7 ms (10	eep 286			300 KH	#VBW	10-341		start 0.03	

#### Band14\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



## Band14\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

		- A 141		-			भंद्र म	annia yr Sa	Reprigit Semi
Frequency	PMNoy 11, 2019 ACE 1 2 3 4 5 6 ITE MWWWWW	T/0A	g Type: Log-Pwr	Run	Trig: Free	O: Fast	PA	q 10.5000	
Auto Tun	0 77 GHz	r1 9.750	Mkr	dB	#Atten: 3	sain:Low	6 dB	Ref Offset 13 Ref 30.00 c	dB/div
Center Fre 10.50000000 GH								1.	0
Start Fre B,00000000 GH									0
Stop Fre 13.00000000 GH									0
CF Ste 500.000000 MH Auto Ma	151-21-51-60m			-		•1			0
Freq Offse 0 H	in antiques	a bina ch	alar anapa an	A Million (			n neller Negroeg	na indexee to Na indexee to	o restore
Scale Typ		Stop 13	Sweep 480		300 kHz	#VRW			art 8.000 es BW 1

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#### Band14\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

Center Freq 15.50000000	GHz PND: Fast Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	14:05:19 PM Nov 15, 2019 TRACE 1 2 1 4 5 6 TRE MYWWWWWW Det P N N NN N	Frequency							
Ref Offset 13.5 dB	dB/div Ref 30.00 dBm -42.04 dBi										
20.6				Center Free 15.50000000 GH							
0.00				Start Free 13,000000000 GH							
10.0				Stop Fre 18.00000000 GH							
30.0			(X1-2) 51 die	CF Ster 500.000000 MH Auto Ma							
50.0 Traparetering and traparity and along	and a start of the particular starts	ana da majaran da tana ang manganan da kana da manganan da kana da kana da kana da kana da kana da kana da kan Na kana da kana	an and a subsection of the sub	Freq Offse 0 H							
*00 Start 13,000 GHz #Res BW 100 KHz	#VBW 300 kHz	Sweep 480.	Stop 18.000 GHz 0 ms (100000 pts)	Scale Type							

#### Band14\_5MHz\_QPSK\_1\_0\_18000-23000 MHz

Feynight (Send normality)en Swept SA							
Center Freq 20.50000000	DMD: East 1	ig: Free Run	Avg Type	Log-Pwr	TRAC	E 1 2 7 4 5 6 MMM MMM	Frequency
Ref Offset 14.5 dB to dB/div Ref 30.00 dBm	60 GHz 13 dBm	Auto Turk					
20.0		_					Center Fre 20.50000000 GH
0.00							Start Fre
300							Stop Fre 23.000000000 GH
30.0						001-23-53-004 (	CF Ste 500.000000 MH Auto Ma
<sup>400</sup> union by helicity a short solution in <sup>500</sup> union for the transmission of the		nander mangerende	and the second s		odial sta	nia nia inter	Freq Offse 0 H
*00 Start 18,000 GHz #Res BW 100 kHz	#VBW 30	0 kHz	Sw	eep 480.0	Stop 23 ) ms (10	.000 GHz 0000 pts)	Scale Type

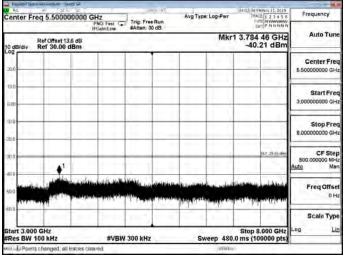
## Band14\_5MHz\_QPSK\_1\_0\_23000-26500 MHz

Center Freq 24.	p	Hz NO: Fast G	Trig: Free F	un	Avg Type	Log-Pwr	04:06:03 FMMoy 15, 201 TRACE 1 7 7 4 5 THE MYNYYM	5 Frequency		
10 dB/div Ref 30	Ref Offset 14.5 dB Mkr1 26.458 910 GH:									
20.0								Center Free 24.75000000 GH		
0.00								Start Free 23,000000000 GH		
100					_			Stop Fre 26.50000000 GH		
30.0	6.5					Jan a	(x1.5) () (8)	CF Ster 350.000000 MH Auto Ma		
State Independent			and an a start of the start of				os ou por stante.	Freq Offse 0 H		
*00						-		Scale Type		
Start 23.000 GHz #Res BW 100 kHz		#VBW	300 kHz	_	Sw	eep 340.0	Stop 26.500 GH: 1 ms (100000 pts			

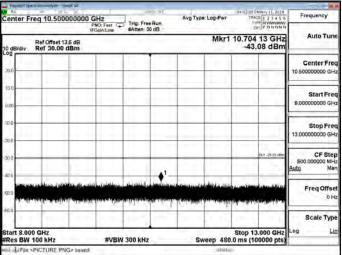
Band14\_5MHz\_QPSK\_1\_0\_30-3000 MHz

		_00 00			_		राज के	a styles and	Fearing I for
Frequency	04:01-47 PMNoy 11, 2019 TRACE 1 2 3 4 5 6 THE NYWWWW	Log-Pwr	Avg Type	Run	Trig: Free	Z O: Fast	00000 GH	reg 1.51500	
Auto Tune				0 dB	#Atten: 3	sain:Low	IFX		
Auto Tuik	790.832 5 MHz 24.39 dBm	Mkr1						Ref Offset 13 Ref 30.00	10 dB/div
Center Free			-				•1	1	200
		111			122		1.11		611
Start Free 30.000000 MHz									0.00
Stop Free 3.00000000 GH									10.0
CF Step	0.1 -21.55 (0.1								30.0
297.000000 MH: Auto Mar	121623	12.0		1	10.1	1.1.1	0.01		
Freq Offse	distant bedrait	الله المراد	Localita Barrow	بالالتحقق	La Maria	hands		-	-45 0
0 Ha	- Stan - Andersteine	and the second	Infiliation of the	a contraction of	manhaku	the state of the state		rising all him	
Scale Type	1	1		1	12.2			No. 10 March 10	100 104
Log Lir	Stop 3.000 GHz 7 ms (100000 pts)	200 206			300 kHz	-			Start 0.03 #Res BW
		eep 280.	51	-	JUU KHZ	#VD14		PICTURE PN	

#### Band14\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



#### Band14\_5MHz\_QPSK\_1\_0\_8000-13000 MHz



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#### Band14\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

Center Freq 15.5000	PA	Hz O: Fast G	10000	e Run 0 dB	Avg Type	Log-Pwr	TRAC	E 1 2 3 4 5 6 E M WWWWWW E P NN NN N	Frequency
Ref Offset 13. 0 dB/div Ref 30.00 d						Mkr1	14.363	86 GHz 12 dBm	Auto Tune
20.0		1		-					Center Fre 15.50000000 GH
0.00									Start Free 13,000000000 GH
100									Stop Fre 18.00000000 GH
ag 0	•1							DC1-29.53-094	CF Ste 500.0000000 MH Auto Ma
SEO	-	allouners	a la sila and	Ale dial	anti-ficiality participation	i Almoli en Venevigia	0 Min. bra		Freg Offse 0 H
*00 Start 13.000 GHz #Res BW 100 kHz		#VBV	V 300 kHz		Sw	eep 480	Stop 18 .0 ms (10	.000 GHz	Scale Typ

#### Band14\_5MHz\_QPSK\_1\_0\_18000-23000 MHz

enter Freq 20.50000	00000 GH:	t	21.10	- (N)	Avg Type	Log-Pwr	TRA	MM-5y 15, 2019	Frequency
Ref Offset 14.6	dB	Fast C	#Atten: 3	0 dB		Mkr1	21.605	24 GHz	Auto Tuni
dB/div Ref 30.00 df	Bm	T					-38.	80 dBm	Center Fre 20 50000000 GH
									Start Fre 18,00000000 GH
0									Stop Fre 23.000000000 GH
0								001-20-51-004	CF Ste
1	1.1	1		1.1	1.2.2.	¢*		1	500.000000 MH Auto Ma
	ang kana an		Party and			cition Lifely		(Robin P. Ow)	Freg Offse
0	-	1.1	100					- 1	Scale Typ
art 18.000 GHz les BW 100 kHz		#VBW	300 kHz		Sw	eep 480	Stop 23 0 ms (10	.000 GHz	Log Li
UFILE SPICTURE PNG	bawed			-		at at a second		the prov	L

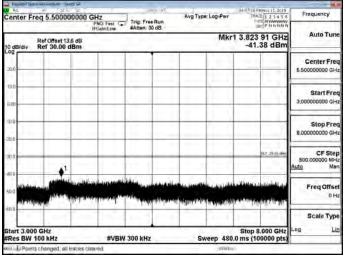
#### Band14\_5MHz\_QPSK\_1\_0\_23000-26500 MHz

Center Freq 24.75000000		Run	Log-Pwr	04-0) 10 FMNov 15, 2019 TRACE 1 2 7 4 5 6	Frequency
Ref Offset 14.5 dB 0 dB/div Ref 30.00 dBm	PODELOW WATER SU	ub	Mkr1 2	.605 236 GHz dBm	Auto Tuni
00					Center Free 24.750000000 GH
0.00					Start Fre 23,000000000 GH
10.0					Stop Fre 26.50000000 GH
30.0				ter shares	CF Ste
400 HINA AND AND AND AND AND AND AND AND AND A	white the sharp she to	an and the sufficient	-	Lings on Hidestates	Auto Ma
Reported Production	and an element of the second			and the second second	Freq Offse 0 H
10.0			1	ri .	Scale Type
Start 23.000 GHz	#VBW 300 kHz	Sv	veep 340.0	Stop 26.500 GHz ms (100000 pts)	Log Lu

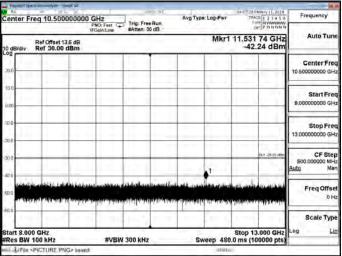
#### Band14\_5MHz\_QPSK\_1\_0\_30-3000 MHz

PRO-First Trig: FreeRun PRO-First Trig: FreeRun IFGainLow #After: 30 dB ML-1 703 306 7 MUH	quency
FishinLow Ander SU 05	
Ref Offset 13.5 dB 24.68 dBm 24.68 dBm	uto Tune
-°0	nter Free
	Start Fre
	Stop Fre
200	CF Ste 00000 MH Ma
	eq Offse 0 H
au S	cale Type
start 0.030 GHz Stop 3.000 GHz Log Res BW 100 kHz #VBW 300 kHz Sweep 286.7 ms (100000 pts)	L

#### Band14\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



#### Band14\_5MHz\_QPSK\_1\_0\_8000-13000 MHz



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### Band14\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

E123456	04:07 40 Pt TRAC Pt	Log-Pwr	Avg Type		Trig: Free	O: Fast	PA	eq 15.5000	enter Fr
28 GHz 41 dBm	Ref Offset 13.5 dB Mkr1 15.569 28 GH								
									20.0
									10 0 0.00
									10 0 30.0
D61-2155-056			-	.1					30.0
an piere	aller and aller	andrede Literer Printerie			al Statu	And provide	a nepper	And the second	50.0
000 GHz	Stop 19							IN GHZ	Start 13.0
	28 GH2 41 dBm	15.569 28 GH -42.41 dBn	Мкт 15.569 28 GHz -42.41 dBn -42.41 dBn -42.41 dBn -42.41 dBn -42.41 dBn -42.41 dBn -42.41 dBn -42.41 dBn -42.41 dBn -42.41 dBn	Cr 266 m	Film         Pre-pre-pre-pre-pre-pre-pre-pre-pre-pre-p	Tric: Free Run         Tric: Free Run           Arten: 30 dB         Mkr1 15.569 28 GHz           Mkr1 15.569 28 GHz         -42.41 dBn          42.41 dBn         -42.41 dBn          42.41 dBn	Corput         Tric: Free Run         Tric: Free Run           Sint.core         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         -42.41 dBm           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 30 dB           Mixer: 30 dB         Mixer: 30 dB         Mixer: 3	PHO: Free         Trig: Free Run Anten: 30 dB         Pre: Pre- me           5 dB         Mkr1 15:569 28 GHz -42.41 dBm           1	Bit Contraction         Processor         Processor

## Band14\_5MHz\_QPSK\_1\_0\_18000-23000 MHz

Forgangel ( Special and a sound special state of the special s						
Center Freq 20.50000000	NO: Fast	rig: Free Run	Avg Type: La	sg-Fwr	TACE 1 2 3 4 5 6	Frequency
Ref Offset 14.5 dB 0 dB/div Ref 30.00 dBm	Gain:Low 4	Atten: 30 dB			38 16 GHz 9.49 dBm	Auto Tuni
200						Center Fre 20.50000000 GH
0.00						Start Fre 18.000000000 GH
100 						Stop Fre 23.000000000 GH
200	1				001-29-51-094	CF Ste 500.000000 MH Auto Ma
2010 Martin and a state of the	a alface had		and a second second		11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Freq Offse 0 H
*00 Start 18,000 GHz #Res BW 100 kHz	#VBW 30	10 kHz	Swee	Stop p 480.0 ms (	23.000 GHz (100000 pts)	Scale Typ

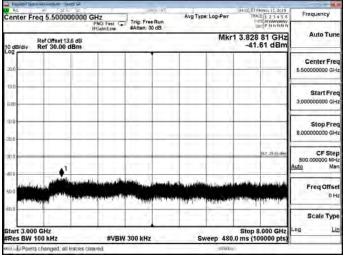
## Band14\_5MHz\_QPSK\_1\_0\_23000-26500 MHz

					WE TOTH	ed an only (e. in	
Frequency	04 (16 04 PMNov 11, 2019 TRACE 1 2 7 4 5 6 THE MONTH N	Avg Type: Log-Pwr	d: Free Run	HZ Trip	000000 GH	req 24.750	Center F
Auto Tun	6.281 633 GHz -37.03 dBm	Mkr1 2	tten: 30 dB	sain Low #Atta	4.6 dB	Ref Offset 14	10 dB/div
Center Fre 24.750000000 GH							20.0
Start Fre 23,000000000 GH							10 0 0.00
Stop Fre 26.50000000 GH		_					10.0
CF Ste 360.000000 MH Auto Ma	tor summer	- toni Manfeetanti		and the state of the second			30.0
Freq Offs 0 F	and the fight of the second	abili da anaz					50.0 1.99
Scale Typ	Stop 26.500 GHz 0 ms (100000 pts)			#VBW 3001			start 23.0
		Sweep 340,	NH2	#4014 3001	G> bayed	SPICTURE PN	

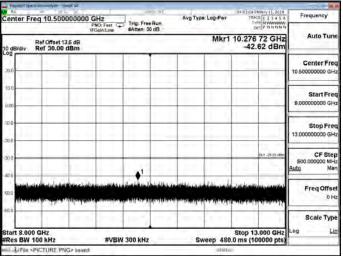
Band14\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	THACE 1 2 3 4 5 6	044 PWF	pe: Log-Pwr	Avg Ty	e Run 0 dB	Trig: Fre	Z IQ: Fast G	0000 GH	reg 1.51500	AL .
Auto Tuni	575 3 MHz 5.55 dBm	kr1 788	Mkr				dina off	6 dB	Ref Offset 13 Ref 30.00 c	0 dB/div
Center Free 1 51500000 GH			1					•1		20.0
Start Free 30.000000 MH										0.00
Stop Free 3.00000000 GH										10.0
CF Step 297.000000 MH Auto Mar	001-3151-004									30.0
Freq Offse 0 H		and study	-	-	a manager		Kotalika		aliterative	50.0 tama
Scale Type						1	and the first	en ore		ia o m
Log Lu	p 3.000 GHz (100000 pts)		weep 28	s	. —	300 kHz	#VBW			start 0.03 Res BW

#### Band14\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



#### Band14\_10MHz\_QPSK\_1\_0\_8000-13000 MHz



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### Band14\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

Center Freq 15.5000	P	HZ NO: Fast G	101.00	e Run 0 dB	Avg Type	Log-Pwr	TRA	2 1 2 3 4 5 6 E P IN IN IN	Frequency
Ref Offset 13 10 dB/div Ref 30.00 d						Mkr1		71 GHz 23 dBm	Auto Turre
20.0									Center Fre 15.50000000 GH
0.00									Start Fre 13,000000000 GH
100									Stop Fre 18.00000000 GH
30.0	<b>A</b> 1							(51-2155 atm	CF Ste 500.000000 MH <u>Auto</u> Ma
50.0	andri komen Approximent	in en	ala Mani		Non-period	and with the	di kultika Kanalan	Vendaular Vervinin	Freq Offse 0 H
*00 Start 13,000 GHz #Res BW 100 kHz		#VBW	/ 300 kHz		Sw	eep 480	Stop 18	.000 GHz	Scale Type

## Band14\_10MHz\_QPSK\_1\_0\_18000-23000 MHz

Figure 1 fema anno 1/2m - anna 24							
Center Freq 20.500000000	PNO: Fast ing	Free Run	Avg Type	Log-Pwr	TRAC	1 2 3 4 5 6	Frequency
Ref Offset 14.5 dB 10 dB/div Ref 30.00 dBm	IFGain:Low #At	en: 30 dB		Mkr1	22.919	00 GHz 12 dBm	Auto Tune
20.0		-				1	Center Free 20.500000000 GH
0.00							Start Free 18,000000000 GH
							Stop Fre 23.00000000 GH
300						(xr. 2) (3) (4) (4)	CF Ster 500.000000 MH Auto Mar
200 <b>0000000000000000000000000000000000</b>	and the state of the state	lander frankriger			David all	dana te	Freq Offse 0 H
*00 Start 18,000 GHz #Res BW 100 KHz	#VBW 300	kHz	Sw	reep 480.	Stop 23 0 ms (10	000 GHz 0000 pts)	Scale Type
UFILE «PICTURE PNG» sevec				at in the second			c

## Band14\_10MHz\_QPSK\_1\_0\_23000-26500 MHz

Feyngel ( See 2 min wild for meth SA				
Center Freq 24.750000000	DNO: East Trig: Free Run	Avg Type: Log-Pwr	04/01/45 PM Moy 11, 2019 TRACE 1 2 3 4 5 6 TUPE NYWWWWW	Frequency
Ref Offset 14.5 dB 0 dB/div Ref 30.00 dBm	IFGeiniLow #Atten: 30 dB		6.231 897 GHz -36.39 dBm	Auto Tun
200				Center Fre 24.750000000 GH
0.00				Start Fre 23,000000000 GH
100				Stop Fre 26.50000000 GH
200	Attention of the taken of he	a a data data data data data data data	ter si <u>mm</u> i	CF Ste 350.000000 MH Auto Ma
	and relation with Advanta		an all and the set	Freq Offs 0 F
too			Stop 26.500 GHz	Scale Typ
Res BW 100 kHz	#VBW 300 kHz	Sweep 340	.0 ms (100000 pts)	

#### enter Freq 772.000000 MHz PNO: Wids C+ Atten: 30 dB Freque Avp Type: Log-Pwr Mkr1 771.312 96 MHz -48.34 dBm Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm 10 c Center Fre Start Fre 769.000000 MH Stop Fre 775.000000 M CF Step . Freq Offs OH Scale Typ

Inband-1\_Band14\_5MHz\_QPSK\_1\_0\_769-775 MHz

#### Inband-2\_Band14\_5MHz\_QPSK\_1\_0\_799-805 MHz

#VBW 300 kHz

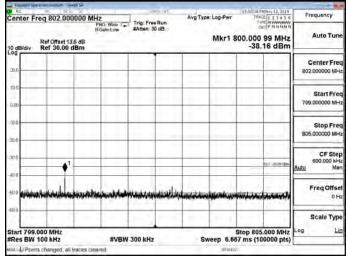
tart 769.000 MH Res BW 100 kHz

D. LUPE

Stop 775.000 MHz Sweep 6.667 ms (100000 pts)

Li

00



#### Inband-1\_Band14\_5MHz\_QPSK\_1\_0\_769-775 MHz

	et anniaulyter S	HTT SA					_	-		
Center Freg 772.000000 MHz				-90-90		Avg Type: Log-Pwr TRACE			1 2 3 4 5 6	Frequency
0 dB/div	Ref Offset 13.6 dB Ref 30.00 dBm			Trig: Free Run #Atten: 30 dB		Mkr1 774.228 21 MHz -48.18 dBm			Auto Tune	
20.0										Center Free 772.000000 MH
0.00										Start Fre 769.000000 MH
21.0										Stop Fre 775.000000 MH
00			_						101-31 (T) (T)	CF Ste 600.000 kH Auto Ma
50.0 <b>alimit</b> i	Annua anna		a		white	Municipalitati	alogoji kilogi kal	uportal -	the lift series	Freq Offse
80.0			-	111		-	1.00			Scale Typ
Start 769.000 MHz         Stop 775.000 MHz           #Res BW 100 kHz         #VBW 300 kHz         Sweep 6.667 ms (100000 pts)										Log Li
D DPDm	ts changed; all	baces binan	ed.				all and or		and the star	-

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# Report No.: E2/2019/90045 Page 406 of 645



#### Inband-2\_Band14\_5MHz\_QPSK\_1\_0\_799-805 MHz

E 123456	TRAC	e: Log-Pwr	Avg T		10.00	12	0000 MH	802.00	nter Freq
00 MHz	99.117	Mkr1 7		30 dB	#Atten: 3	Galetow	3.6 dB		
				-					
									, ,
tur aranam									
	-	wannutive	<u></u> ulaiyim	nteducidadad	-	- Manuar	houlewas	Annalasia	-
	Stop 805	-			1	-			rt 799.000
	20123436 2014 20	199.110 MHz -43.43 dBm	ле Log-Per ТМС [1 21 43 5 100 / 100 MHz -43.43 dBm -43.43 dBm -43.43 dBm	Avg Type: Log-Pwr Mkc1 [2] 43.5 Mkr1 799.117 00 Mkz -43.43 dBm -43.43 dBm -43.43 dBm -43.43 dBm -43.43 dBm -43.43 dBm	e Bun lo dB Mkr1 799.117 00 MHz -43.43 dBm -43.43 dBm -43.43 dBm -43.43 dBm	Mich The Frank Bun Anten 30 dB Mich 1 799, 117 00 MHz -43,43 dBm 	IZ MICH 12 ALS AND THE LOG-PUT THEE 12 ALS	2000 MHz     Avg Type: Log-Per     The Lip 3 a 3 5       Philo Web-Lip 3 a 3 6     Inter 30 dB     Mkr1 799.117 00 MHz       26 dB     Mkr1 799.117 00 MHz     -43.43 dBm       26 minute     -43.43 dBm     -43.43 dBm	B02.000000 MHz     Frg: Free Run Mattern 30 dB     Arg Type: Log-Perr Mattern 30 dB     Trg: Free Run Mkr 1 799.117 00 MHz       ef Offset 136 dB of 30.00 dBm     Mkr 1 799.117 00 MHz     Add Bm

#### Inband-1\_Band14\_5MHz\_QPSK\_1\_0\_769-775 MHz

Frequency	TRACE 1 2 3 4 5 6	Log-Pwr	Avg Type	o: Free Run		00000 MH	eq 772.00	Center Fr
Auto Tur	2.865 00 MHz -48.06 dBm	Mkr1 772		g: Free Run Iten: 30 dB		13.6 dB	Ref Offset 1 Ref 30.00	0 dB/div
Center Fre 772.000000 MH				-				20.0
Start Fre 769.000000 MH								0.00
Stop Fre 775.000000 Mil								10.0
CF Ste 600.000 kH Auto Ma	tur-di di din							30 0 40 0
Freq Offs 0 F	- Humman west Hinne	And the second	and when	tinternanist	-			so averal
Scale Type		Sto reep 6.667			#VBW 3		000 MHz 100 kHz	tart 769.0

## Inband-2\_Band14\_5MHz\_QPSK\_1\_0\_799-805 MHz

Frequency	103-54 63 PM Nov 12, 2019 TRACE 1 2 3 4 5 6 THE BY WWWW	Log-Pwr	Avg Type	e Run	Trip: Fre	O: Wide La	EN	eq 802.00	Center Fi
Auto Turk	00.635 74 MHz -43.04 dBm	0 dB.	#Atten: 3	dir Low	L6 dB	Ref Offset 1 Ref 30.00	0 dB/div		
Center Fred 802.000000 MH:									20.0
Start Free 799.000000 MH:									0.00
Stop Free 805.000000 MH									10.0
CF Stej 600.000 kH Auto Ma	tur di di am					_	<b>1</b>		30 0 ·····
Freq Offse 0 H	din da anticipada	-	windowers	Niterin	-	annu	Hannahan		50.0
Scale Type	top 805.000 MHz 7 ms (100000 pts)		Sv		300 kHz	#VBW	-		Start 799.

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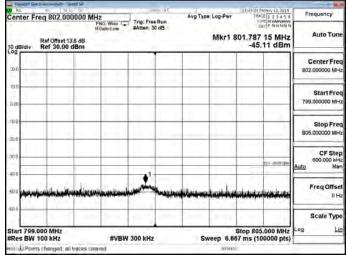
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SGS Taiwan Ltd.

## Inband-1 Band14 10MHz OPSK 1 0 769-775 MHz

PHC Way         James 30 dB         Cell Markin           Ref Offset 13.6 dB         Mkr1 771.913 93 MHz         Auto           00 gB/div         Ref 30.00 dBm         -47.62 dBm         Center           00 gB/div         Image: Start 10 dB         Start 10 dB         Start 10 dB           00 gB/div         Image: Start 10 dB         Image: Start 10 dB         Start 10 dB           00 gB/div         Image: Start 10 dB         Image: Start 10 dB         Start 10 dB           00 gB/div         Image: Start 10 dB         Image: Start 10 dB         Image: Start 10 dB         Image: Start 10 dB           00 gB/div         Image: Start 10 dB         Image: Start 10 dB<
200 Center 772.0000 100 Star 769.0000 100 Stop 775.0000 775.0000
000 Stop 775.00000 775.00000 775.00000
5top 775.0000
00
800 Are reference and an uniter under the state of the continuous locates deviation patros
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

#### Inband-2\_Band14\_10MHz\_QPSK\_1\_0\_799-805 MHz



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## Band25\_1\_4MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.515000000	PNO: Fast G	10000	e Run 0 dB	Avg Type	Log-Pwr	TRAC	E 1 2 3 4 5 6 E MYWWWWW ET P NN NN N	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm				1	Mkr1 1	.850 21 25.	2 4 GHz 93 dBm	Auto Tune
20.0				•1			-	Center Fre 1 515000000 GH
10 0 0.00								Start Free 30.000000 MH
100								Stop Fre 3.00000000 GH
300							001-20150-009	CF Ste 297.000000 MH <u>Auto</u> Ma
50.0 Cattle berry fittin in start		Anterprise page of the second	in the second			1		Freg Offse 0 H
start 0.030 GHz	#VBV	V 300 kHz		Sw	eep 286	Stop 3	.000 GHz	Scale Type

#### Band25\_1\_4MHz\_QPSK\_1\_0\_3000-8000 MHz

						52	annen plan sellig	Repugit Seman	
Frequency	54.34 PM Noy 11, 2019 TRACE 1 2 3 4 5 6 TIPE MWWWWW Det P MN MN N	Log-Pwr	Avg Type	Free Run	A	000 GHz PNO: Fast G	q 5.500000		
Auto Tur	Ref Offset 138 dB Mkr1 5.108 07 GHz dB/div Ref 30.00 dBm -41.04 dBm								
Center Fre 5.50000000 GH								0.0	
Start Fre 3,00000000 GH								00	
Stop Fre 8.00000000 GH								00 00	
CF Ste 500.000000 Mi Auto Mi	DC1-20.55-004				<b>▲</b> 1			00	
Freq Offs 0 F	al and a subsection of the sub		Tangerst		Second Second		and Phyloge	0.0	
Scale Typ	top 8.000 GHz	St				#VBV	GHz 00 kHz	tart 3.000	

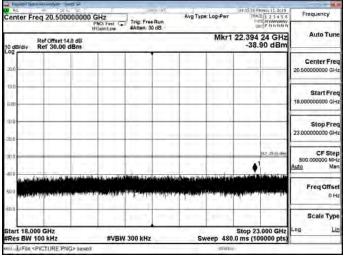
## Band25\_1\_4MHz\_QPSK\_1\_0\_8000-13000 MHz

Feyniget (Senia woosiwelyare Swept SA		_			2.2.4
Center Freq 10.50000000	0 GHz	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Fwr	TRACE 1 2 7 4 5 6	Frequency
Ref Offset 13.8 dB	Auto Tun				
Log	_		1-1-1	-42.89 dBm	
0.02					Center Fre 10.50000000 GH
0.00					Start Fre 8,000000000 GH
18.0					Stop Fre 13.00000000 GH
30.0				(x1-3) 51 (8)	CF Ste
40.0	11.1			12.24	500.000000 MH Auto Ma
50.0 50.0	and a substant	an a	Editor a une abbi atemat	and a state of the	Freq Offs
and the state of t	arte fest within	Sugar, and a lower for	House and he shows	Section of the design of the	U.I.
100		10.5		101100	Scale Typ
Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	Swaan 490	Stop 13.000 GHz .0 ms (100000 pts)	Log Lin
UFILE SPICTURE PNG> beve	452.64	SAA BUIE	aweep 480		

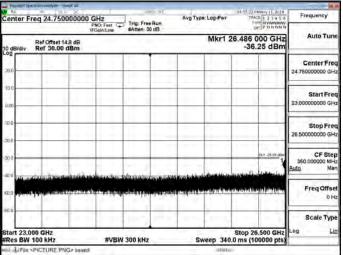
#### Band25\_1\_4MHz\_QPSK\_1\_0\_13000-18000 MHz

Center Freq	15.5000	p	HZ VO: Fast G	Trig: Free	Run	Аур Туре	Lag-Pwr	145458 FMNov 15, 2019 TRACE   2 7 4 5 6 FIFE MWWWWW OFT F NN KN N		Frequency Auto Tune
Ref Offisel 138 dB Mkr1 15.527 98 GHz 10 dB/div Ref 30.00 dBm - 42.38 dBm										
20.0										Center Fred 15.50000000 GHz
0.00										Start Fred 13,00000000 GH:
10.0										Stop Free 18.00000000 GH
ao o					.1				(X1,5)51.094	CF Ster 500.000000 MH Auto Mar
40 0 50 0 60 0	A PARTY AND	it in the standard	dittan and taxing particular	Radinala at	in a site	ing a support	a Likelingen	Under aler Philipper en	and some the	Freq Offse 0 H
Start 13.000 0			#VRW	300 kHz		Sw	een 480	Stop 1	8.000 GHz 00000 pts)	Scale Type

## Band25\_1\_4MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band25\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



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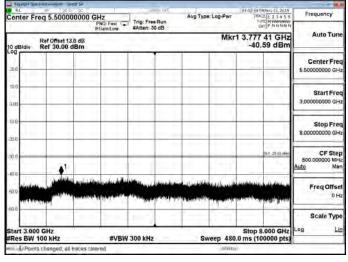
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## Band25\_1\_4MHz\_QPSK\_1\_0\_30-3000 MHz

000000 GHz FN0: Fast Trig: Free Run FN0: F	requency
	Auto Tur
	Senter Fre
30	Start Fre
3.000	Stop Fre
ICS -Statement	CF Ste 000000 MH Ma
	Freq Offs 0 H
#VBW 300 kHz Sweep 286.7 ms (10000 pts)	Scale Typ

#### Band25\_1\_4MHz\_QPSK\_1\_0\_3000-8000 MHz



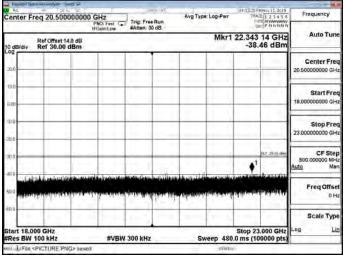
## Band25\_1\_4MHz\_QPSK\_1\_0\_8000-13000 MHz

Repugnit for a non-inducer integral sa	-	-005-047	T	04:53 00 PMNoy 11	2019					
Center Freq 10.500000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-	PWP TRACE 1 2	1456 Frequency					
0 dB/div Ref 30.00 dBn	Ref Offset 138 dB Mkr1 11.094 48 GHz IBidiv Ref 30.00 dBm -41.70 dBm									
00					Center Free 10.50000000 GH					
0.00					Start Free B,000000000 GH					
18.0					Stop Fre- 13.00000000 GH					
30.0			A1	(cr.3)	SIGN CF Ster S00.000000 MH Auto Ma					
50.0 <b>10.000 10.000 10.000</b>	undian executions open opener treated	a de ser and a ser a ser a de ser a de Reference de ser a de		alaland on Ladian and an Alayang ang salahan ang salahan	Freq Offse 0 H					
to 0	-			Stop 13.000	Scale Type					
Res BW 100 kHz	#VBW	300 kHz	Sweep	480.0 ms (100000						
DELE SPICTURE PNG> 5	aved			O'BOLINE .						

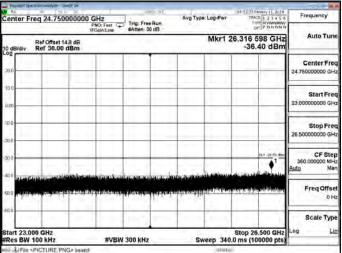
#### Band25\_1\_4MHz\_QPSK\_1\_0\_13000-18000 MHz

Frequency	E 1 2 3 4 5 6 E MWWWWW	TRAC	Log-Pwr	Avg Type		Trig: Fre	iHz NO: Fast G	p	reg 15.500	Center F	
Auto Tun	Ref Offset 138 dB         Mkr1 17.811 50 GHz           10 dB/dw         Ref 30.00 dBm         -41.25 dBm           0 g										
Center Fred 15.50000000 GH	1			-						20.0	
Start Fred 13,000000000 GH:										10:0 0,00	
Stop Free 18.00000000 GH										10.0	
CF Step 500.000000 MH Auto Mar	<u>xt 355 m</u>								-	30 0	
Freq Offse 0 H	an analysian		- Attion att	-	d kolena en	and the lo		duranti manati	and a state of the second s	-40.0	
Scale Type		Stop 18	veep 480			300 kHz				Start 13.0	

## Band25\_1\_4MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band25\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



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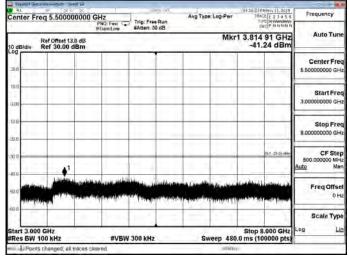
# Report No.: E2/2019/90045 Page 409 of 645



## Band25\_1\_4MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.515000000	GHz PNO: Fast + Trig: F IFGaint con #Atten	ree Run	Avg Type: Log	Pwr TRACE   2345	5 Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm	Auto Tune				
20.0			•1		Center Fre 1 51500000 GH
10.0 0.00					Start Free 30.000000 MH
100					Stop Fre 3.00000000 GH
300	-			0131516	CF Ste 297.000000 MH Auto Ma
50.0 active poly system of the		-		مريخ ما 15 لاما و مانا المراكبين. مريخ ما 15 لاما و مانا الماريني و مريخ مريخ مريخ مريخ مريخ ماريخ ماريخ ماريخ ماريخ ماريخ ماريخ ماريخ ماريخ ماري	Freq Offse 0 Hi
*00 FFAN FAN (1971)	#VBW 300 kt	17	Sweep	Stop 3.000 GH: 286.7 ms (100000 pts	Scale Type

#### Band25\_1\_4MHz\_QPSK\_1\_0\_3000-8000 MHz



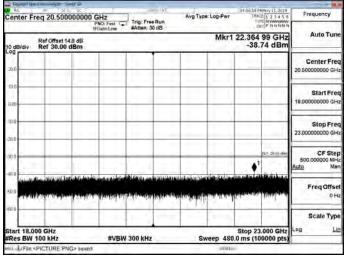
## Band25\_1\_4MHz\_QPSK\_1\_0\_8000-13000 MHz

	100 10 100	1.5 -						Sweetly 22	a minimizer i				
Frequency	PMNoy 11, 2019 IACE 1 2 3 4 5 6	749	e: Log-Pwr	Avg Typ	ree Run	Trig: Fre	PNO: Fast	0000000	eq 10.500	Center Fi			
Auto Tun	4 51 GHz	#Atten: 30 dB						Ref Offset 13.8 dB 0 dB/div Ref 30.00 dBm					
Center Fre 10.500000000 GH										20.0			
Start Fre 8,000000000 GH										0.00			
Stop Fre 13.00000000 GH										10.0			
CF Ste 500.000000 MH Auto Ma	001-20 <i>55 m</i> m							A1		30.0			
Freq Offse 0 H	-	and in the		- ALLER - CAR	-			And the second		50.0			
Scale Typ	13.000 GHz 100000 pts)	Stop 1	ueen 490		19	( 300 kHz	#VBM			Start 8.00			
	prog		100p 100				3101	NG> baved	PICTURE PI				

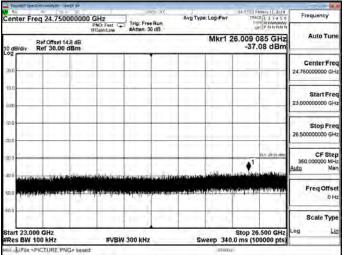
#### Band25\_1\_4MHz\_QPSK\_1\_0\_13000-18000 MHz

								राज ऊंदे	annianly);= in	Feynight Ser			
Frequency	CE 1 2 3 4 5 6	TRAC	Log-Pwr	Avg Type	Run	Trig: Fre	Hz IO: Fast	000000 G	q 15.500				
Auto Tun	- Sho man	19-10-01			0 dB	#Atten: 3	sain:Low	IFGain:Low					
	.47 dBm	Ref Officet 138 dB Mkr1 17.395 04 GHz dB/div Ref 30.00 dBm -41.47 dBm											
Center Fre						1.1				0.0			
15.50000000 (31)	12.2			_			1.11	1.1	1	112			
Start Fre 13,00000000 GH										0.0			
Stop Free 18.00000000 GH										00			
CF Ste	001-21-51-004				1					00			
500.000000 MH Auto Ma	1			1-		10.1		1	1-1	no.			
FregOffse	- autoria	and marking	in the later	-	-	di Katalin	hunde	بكالربيد أبعا	المترجعة والمرا	in			
он	a for the second second		and particula	sally as	bid within	a water	-	and all where	and and and	1.0			
Scale Type	-				_		1		1	00			
Log Li	8.000 GHz 00000 pts)		aan 490	Cu	-	300 kHz	#VRW	-		tart 13.0 Res BW			
	occes bray				-	See Milz		52 bayed	PICTURE PN				

## Band25\_1\_4MHz\_QPSK\_1\_0\_18000-23000 MHz



#### Band25\_1\_4MHz\_QPSK\_1\_0\_23000-26500 MHz



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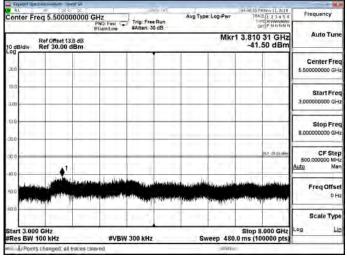
# Report No.: E2/2019/90045 Page 410 of 645



## Band25\_3MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	Z 1 2 3 4 5 6 SHWWWWWW T P NN GN N	TRAC	Log-Pwr	Avg Type	e Run Ið dB	Trig: Fre	Z IQ: Fast G	Ph	reg 1.5150	Center		
Auto Tun		Ref Offset 138 dB Mkr1 1.850 212 4 GHz o dBidiv Ref 30.00 dBm 25.58 dBm										
Center Fre 1 515000000 GH	-			•1				2.1		20.0		
Start Fre 30.000000 MH										10:0		
Stop Fre 3 00000000 GH										10.0		
CF Ste 297.000000 MH Auto Ma	DC1-29.55 (89)									30 0		
Freq Offse	Adardad in Antonio	a diana Managara	ang ang sa sharing a		e Subdati		a lubinosti	and the state	a harring	50.0		
Scale Typ	.000 GHz	Stan 2		-					30 GHz	10.0		
	0000 gHz	7 ms (10	eep 286	Sw		300 kHz	#VBW		100 kHz			

## Band25\_3MHz\_QPSK\_1\_0\_3000-8000 MHz



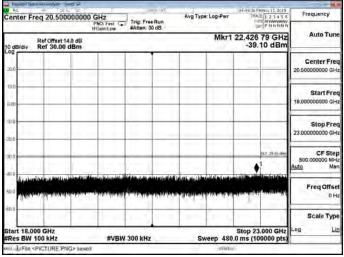
## Band25 3MHz OPSK 1 0 8000-13000 MHz

Faying ( for a minimum for margin shi					
Center Freq 10.5000000	PNO: Fast	Trig: Free Run	Avg Type: Log-Fwr	78402 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB	Auto Tune				
10 dB/div Ref 30.00 dBm			1-1-2	-42.80 dBm	
0.02	111				Center Fre 10.50000000 GH
10 0 0,00					Start Fre B,000000000 GH
100					Stop Fre 13.00000000 GH
ao o	-			001-51-51-654	CF Ste 500.000000 MH
40.0			00.000		<u>Auto</u> Ma
20 0 Martin Martin Street and Street		Treater and a second	Contract of the second second	ne pilondinavel.m.	Freq Offse 0 H
10.0		1			Scale Typ
Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	Sween 490	Stop 13.000 GHz 0 ms (100000 pts)	Log LL
UFILE <picture png=""> bev</picture>		SAA WITE	aweep 480		

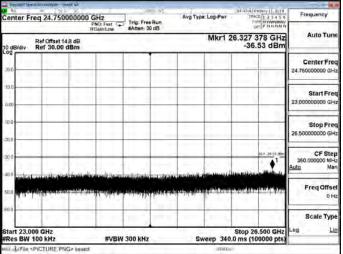
## Band25\_3MHz\_QPSK\_1\_0\_13000-18000 MHz

		-	_		-			भंद्र म	manifite Ser				
Frequency	E121456	01-30:19 PMNoy 11, 2019 TRACE 1 2 3 4 5 6		Avg Type	Run	Trig: Free	Or Fast	p	15.5000		Cen		
Auto Tun	4 - 10 LD 4 - 1	Contraction of the			#Atten: 30 dB			IFGain:Low					
	93 GHz 83 dBm	Mkr1		Ref Offset 13.8 dB 0 dB/div Ref 30.00 dBm									
Center Fre											20.0		
			<u> </u>	_							10.0		
Start Fre 13,00000000 GH											0,00		
Stop Fre 18.000000000 GH						-					10.0		
CF Ste	(X1.2) 55 mm							_			30.0		
500.000000 MH Auto Ma	1.11		121		.1		1.11	1	1		ň		
FregOffse	Westernet	. Waddan	Langerston	ALL ALLAND	A Links	decender.	ALCON UNIT	attention			40.0		
0 H	too for the second	a tour	- ANNUMBER	white, build	All de la faite	(estable)	a all a surface	designation of	Property of	History and	50.0		
Scale Typ			100			10.2	1.1			1	e0.0		
Log Li	8.000 GHz	Stop 18	aan 490	Cu		300 kHz	#VBW	-		13.000 BW 10			
	on hrave		eep 460.	an	-	550 MI12	11 4 Date	la haved	TURE PN				

## Band25\_3MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



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## Band25\_3MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E M WWWWW	04-36-16 7640 109 08	Log-Pwr	Avg Type	ee Run 30 dB	1000	Hz PNQ: Fast G		nter Freq 1.515	
Auto Tun	Ref Officient 13.8 dB Mkr1 1.881 249 2 GHz to delidiv Ref 30.00 dBm 25.18 dBm									
Center Fre 1 51500000 GH				•1						
Start Fre 30.000000 MH										
Stop Fre 3 00000000 GH										
CF Ste 297.000000 MH Auto Ma	001-29-51-099				-					
Freq Offse 0 H	Townshines	kiniunda Paragapian	abilitizati anti-		anula	er ihren inte		eren and the		
Scale Typ		1	1000	-		100		decempents :	- Contraction of the	
Log Li	.000 GHz 0000 pts)		eep 286	SW	z	V 300 kHz	#VBV	· · · · · ·	rt 0.030 GHz s BW 100 kHz	

#### Band25\_3MHz\_QPSK\_1\_0\_3000-8000 MHz

								milda 24	manh2m 2	avisit female
Frequency	E 1 2 3 4 5 6	TRAC	Log-Pwr	Avg Type	Run	1000	Z NO: Fast	000000 G	5.5000	ter Fred
Auto Tur	77 GHz 96 dBm	1 4.871	Mkr		0 dB	#Atten: 3	SaintLow	13.8 dB	ef Offset 1 ef 30.00	
Center Fre 5 50000000 Gi					-				-	
Start Fro 3,000000000 G										
Stop Fr 8.000000000 Gi										
CF Ste 500.000000 Mil Auto M	DC1-29-55-004				-		¢1			1
Freq Offs 01	and the second	and the second		in condition		in the second	ang na sa			-
Scale Typ	.000 GHz	Stop 8					#VBW		aHz	1 3.000 0

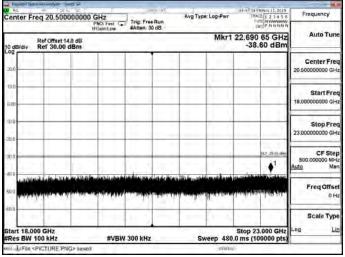
## Band25\_3MHz\_QPSK\_1\_0\_8000-13000 MHz

Keynige I famili normaliyare inepa Sk					
Center Freq 10.5000000	00 GHz	Trig: Free Run	Avg Type: Log-Pwr	04-37(1) FMNoy 11, 2019 TRACE 1 2 3 4 5 6 1015 M WWWWWW	Frequency
	IFGain:Low	#Atten: 30 dB	Miles	1 8.393 35 GHz	Auto Tun
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm			-42.81 dBm		
	1.1.1			1 1	Center Free
20.0					10.50000000 GH
10.0					Start Fre
0.00	-				8,00000000 GH
10.0					Stop Fre
30.0					13.00000000 GH
				001-21-51-054	CF Ste
30.0	11-1-1	10110	122, 121	1212-0-1	500.000000 MH Auto Ma
ACO Bart, boundary, and		والمحافظة وأعتادهم	and the second state days of the	to make here we address	FregOffse
20.0	-		and The South States	and antipolition line at	0H
¥0.0				10.0	Scale Typ
Start 8.000 GHz				Stop 13.000 GHz	
Res BW 100 kHz	#VBW	300 kHz	Sweep 480	.0 ms (100000 pts)	
UFIE SPICTURE PNG> be	wed		57 B (1)		

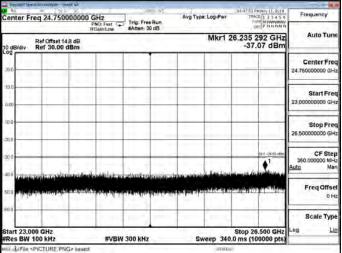
#### Band25\_3MHz\_QPSK\_1\_0\_13000-18000 MHz

		_		-		-	NG RU	minimper Se	ty visit form		
Frequency	04.3 -1/ FMMov 11, 2019 TRACE   2 3 4 5 6	Log-Pwr	Avg Type	Run	Trig: Fre	Or Fast	p	q 15.500			
Auto Tun		10	#Atten: 30 dB			IFGain:Low					
	14.431 06 GHz -42.17 dBm	MIKFT	Ref Offset 13.8 dB Mkr 10 dB/div Ref 30.00 dBm								
Center Fre	the state of				1				1.		
15.500000000 GH						1.111		1			
Start Fre		1 1		-	-						
13,000000000 GH		-	-			-		-			
Stop Fre		- 1			_						
18.000000000 GH		-		-	1.1						
CF Ster	(X.1 -21 55 dim	$\Box 0$		1.7			_				
500.000000 MH Auto Ma	1001	122.1		1.1	11.1		12.2				
Freq Offse	تاريبين ومناجع ومحاولته	Venture sitter			and in the second	A HIMAN	Martin	السنقامين			
0H	. However a local state	-	And and a state	the second second	and dealerships	Re della Part		dou Million			
Scale Typ	1 (1 v)	1			diare			1	10.00		
		1.1			100			1.000			
Log Li	Stop 18.000 GHz 0 ms (100000 pts)	ep 480.	Sw		300 KHz	#VBW			rt 13.0		
		all					l> bayed	CTURE PN	L/File s		

## Band25\_3MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



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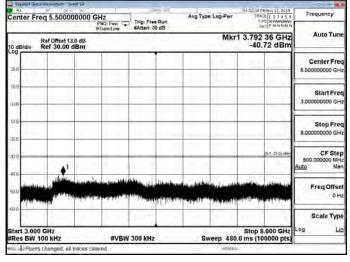


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## Band25\_3MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	2 1 2 3 4 5 6 E MWWWWW ET P NN NN N	TRAC	Log-Pwr	Avg Type	Run	10000	IZ NO: Fast G	P	reg 1.5150	Center		
Auto Tune		Ref Offset 138 dB Mkr1 1.912 256 3 GHz 0 dB/div Ref 30.00 dBm 25.91 dBm										
Center Free 1 51500000 GH	-			-14						20.0		
Start Free 30.000000 MH										10:0 0,00		
Stop Free 3.00000000 GH										100		
CF Step 297.000000 MH Auto Ma	001-2951-009									30.0		
Freq Offse 0 Hi	in the party of the			مادر با مراد با	itions will		milin		Same Inesia	-400		
Scale Type	- 1		11-1			mot-or 1		and all.	PRO RECEIPTION OF THE PROPERTY	10.0		
Log Lir	.000 GHz		eep 286.	Sw		300 kHz	#VBW		30 GHz 100 kHz	Start 0.0 #Res BV		

#### Band25\_3MHz\_QPSK\_1\_0\_3000-8000 MHz



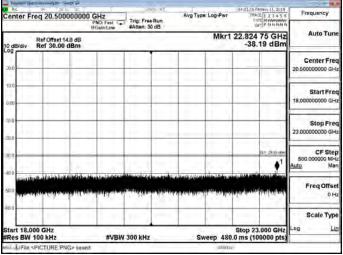
## Band25 3MHz QPSK 1 0 8000-13000 MHz

Feyniget Send announlyten owner Silv R.L	Court I				04-50-31 PM	Noy 15, 2019	Frequency		
Center Freq 10.500000	PNO: Fast G	Trig: Free Run #Atten: 30 dB	wyb i ybe: Lo	Avg Type: Log-Pwr		123456 MWWWWW PNNNN			
Ref Offset 13.8 dB 0 dB/div Ref 30.00 dBm			Mkr1 10.194 82 GHz -42.04 dBm						
20.0						-	Center Fre 10.500000000 GH		
0.00							Start Fre B,000000000 GH		
10.0							Stop Fre 13.00000000 GH		
200		•			p	(1-3) (1 <del>(1)</del>	CF Ste 500.000000 MH Auto Ma		
ar o and the stand of the stand of the stand	ainti Bertentia.	al dan disabat baran di Managan pangarangan di	n Station and an and a state of the state of		alle Mahilus	and bailing	Freq Offse 0 H		
80.0 Start 8.000 GHz				- 6	Stop 13.0	000 GHz	Scale Type		
Res BW 100 kHz	978-01	300 kHz	Sweep	480.	0 ms (100	000 pts)			

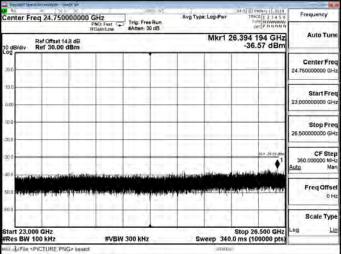
#### Band25\_3MHz\_QPSK\_1\_0\_13000-18000 MHz

				-		-	नाम ऊंचे	mininger in	işi t Sema i	Fe						
Frequency	04-31:03 FMNov 11, 2019 TRACE 1 2 7 4 5 6 THE PROVING	.og-Pwr	Avg Type:	Run	Trig: Free	O: Fast	000000 G	15.500	er Fre							
Auto Tun	10-10-10-10-10-10-10-10-10-10-10-10-10-1		_	0 dB	#Atten: 3	sain:Low	161		_	-						
Auto Tun	Ref 0ffset 13.8 dB Mkr1 15.754 18 GHz Ref 30.00 dBm -42.56 dBm								B/div Ref 30.00 dBm							
Center Free	1.00				1.1			1	1	20.0						
15.50000000 GH						1.11		1		200						
Start Fre		1							-	10.0						
13,00000000 GH		-						-		0,00						
Stop Fre		1.1								10.0						
18.00000000 GH		_				1.1.1		i	1.	30.0						
CF Ster	DUT-20151-000	E (														
500.000000 MH Auto Ma	- 1 C	10.11			12.1	1.1.1	·	1	10	30.0						
and the second	والمرجوع والمعادية	al Dame		Sacadaman .	-	Sec. 18. She	-	hereit		-40.0						
Freq Offse 0 H	- Milderal Million and Jone	diam's a	than and	in Linut in a	la		in Landa			50.0						
	1. 10 Cars + 11 -	- and	Self-Shirt	a della	s of second	a cife a		12.6%	Mar Collin	80.0						
Scale Type		1.1						1		1						
Log Li	Stop 18.000 GHz 0 ms (100000 pts)	ep 480.	Sw		300 kHz	#VBW	1.1		13.000 BW 10							
			-	_	See hits		Ga haved	TURE PN								

## Band25\_3MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_3MHz\_QPSK\_1\_0\_23000-26500 MHz



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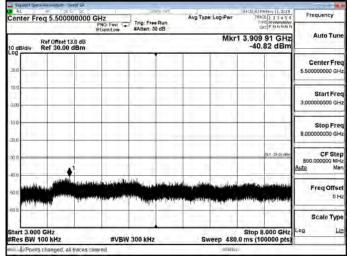


# Report No.: E2/2019/90045 Page 413 of 645

## Band25\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E MYWWWWW T P NN MM N	TRAC	e: Log-Pwr	Avg Ty	e Run	A	Z NO: Fast C	P	Freq 1.5150	Center I
Auto Tun	0 6 GHz 48 dBm	850 390 25.4	Mkr1 1.	-			Saure a	3.8 dB	Ref Offset 13 Ref 30.00	10 dB/div
Center Fre 1 51500000 GH	-			•1						20.0
Start Fre 30.000000 MH										0.00
Stop Fre 3 00000000 GH										10.0
CF Ste 297.000000 MH Auto Ma	<u>0.1.2155.000</u>			-	-					30.0
Freq Offse 0 H	Milana Sin Prinsiph		a hack for the	Lans		durality			our motor has	50.0
Scale Typ			1			1		and		10.0
Log Li		Stop 3. 7 ms (10	veep 286	5	-	V 300 kHz	#VBV		30 GHz V 100 kHz	Start 0.0 Res BV

#### Band25\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



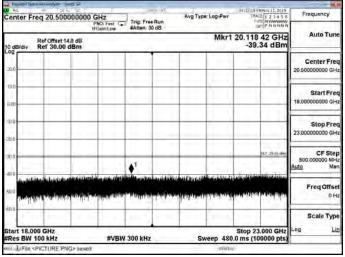
## Band25\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

Hz KO: Fest 7 SaintLow	rig: Free Run Atten: 30 dB	Avg Typ	e:Log-Pwr Mkr1	11.072 18 GHz -42.53 dBm	Auto Tune
SaintLow 40	Atten: 30 dB.		Mkr1	11.072 18 GHz	Auto Tun
				I 1 1 1	CenterFre
			1100		10.50000000 GH
					Start Fre B.000000000 GH
					Stop Fre 13.000000000 Gi
				(K1-31-51 dis	CF Ste 500.000000 MH Auto Mi
kiense mehker Propriesensense		and the second	an Barranda William State	and the same of the same of the same	Freq Offs 0 F
#VBW 30	0 kHz	S	weep 480.	Stop 13.000 GHz 0 ms (100000 pts)	Scale Typ
	#VBW 30	Terrary (1) 31 state of a light (1) 31 state of a light) (1) 31 state of a ligh	1 1 1 1 1 1 1 1 1 1 1 1 1 1		

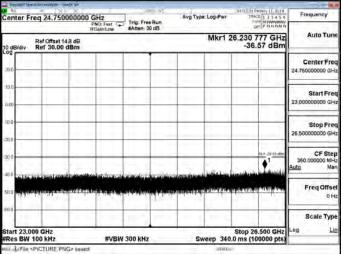
Band25_5MHz_QPSK_1_0_13000-18000 MHz
--------------------------------------

Center F	req 15.5000	P9	HZ KD: Fast G	Trig: Free	Run	Avg Type:	Log-Pwr	TRAC	Z 1 2 7 4 5 6 E RYWWWW T P NNNN N	Frequency
0 dB/div	Ref Offset 13 Ref 30.00 d						Mkr1	17.420 -40.	19 GHz 33 dBm	Auto Tune
20.0										Center Freq 15.50000000 GHz
0.00										Start Fred 13,00000000 GHz
10.0										Stop Free 18.00000000 GH:
30 0	-			_		-	-		057-39.51.004	CF Step 500.000000 MH
40.0	in the second		North Art		1.11 C. 62/C.	nal little of			Photos and	FreqOffsel
Start 13.0	000 GHz							Stop 18	.000 GHz	
100 GHz	#VB	en nom 1				ala suitaite	.a.d.lat	.0 ms (10	1 7 11 12 12 12 12 12 12 12 12 12 12 12 12	Auto Man Freq Offset 0 Hz Scale Type

## Band25\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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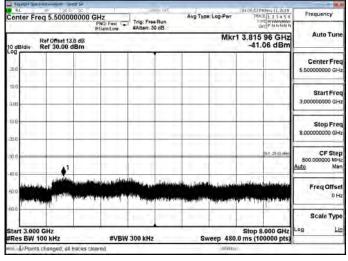
# Report No.: E2/2019/90045 Page 414 of 645



## Band25\_5MHz\_QPSK\_1\_0\_30-3000 MHz

TRACE 1 2 3 4 5 6	Log-Pwr	Avg Type	ee Run	Trig: Fre	NO: Fast		er Freq 1.5150
80 269 1 GHz 25.45 dBm	Mkr1 1.	1.1				13.8 dB	Ref Offset 1
		•1	-				
001-29:51:004			-				
						and and and	an a fictoria adoretar
Stop 3.000 GHz	-					10 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.030 GHz
	1742   13456 172   13456 172	ELOPPer The 212455 ELOPPer The 212455 Mkr1 1.880 (269 1 GHz) 25.45 dBm constraints constrai	Avg Type: Log-Per Mkr1 1:880 25:45 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	Avg Type: Log-Per         TMc2 [2:3:4:5:0]           BidB         TMc1 [2:3:4:5:0]           Mkr1 1.880 2695 I GHz 25:45 dBm         1           Image: State of the state of th	Avg Type:Log-Pwr Tread 13 24 5 6 Trig: Free Run BAtten: 30 dB Mkr1 1.880 2699 1 GHz 25.45 dBm 1 25.45 dBm 25.45 dBm	H2         Avg Type Log-Pwr         This [] [] a a a a           Gain Low         FATEN 30 dB         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a           Mkr1 1, 380 cB a         Mkr1 1, 380 cB a         Mkr1 1, 380 cB a	Otogoo GHZ     Avg Type: Log-Per     The Log 23 45 5       Ficunt.tow     Trig: Free Run Atten: 30 dB     Mkr1 1.880 269 16 GHZ 25.45 dBm       GBm     01       Image: State of the state of

#### Band25\_5MHz\_QPSK\_1\_0\_3000-8000 MHz



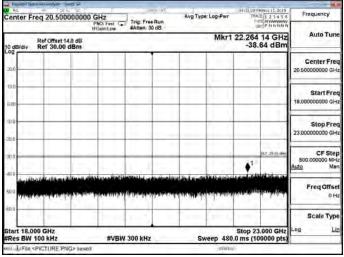
## Band25 5MHz OPSK 1 0 8000-13000 MHz

Equipation and an analyzer Supplication						
Center Freq 10.5000000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type:	Log-Pwr	04:01:05 FM Noy 11, 2019 TRACE 1 2 3 4 5 6 10 5 M WWWWWW	Frequency
Ref Offset 13.8 dB	IFGain:Low	BAtten: 30 dB		Mkr1	10.368 12 GHz -42.63 dBm	Auto Tune
20.0						Center Free 10.500000000 GH
0.00						Start Free 8,000000000 GH
100						Stop Fre 13.00000000 GH
30.0		A1			(K1-3) 55 dby	CF Ster 500.000000 MH Auto Ma
20.0	internetiense Vergegensterie	and the same	andra and a Margaphenet		ar en feldteken norset er Agensent i professioner	Freq Offse 0 H
*00 Start 8.000 GHz #Res BW 100 kHz	#VEW	300 kHz		an 190	Stop 13.000 GHz 0 ms (100000 pts)	Scale Type
LIFIC SPICTURE PNG> box	0.000	SUURNZ	Swe	ep 480		

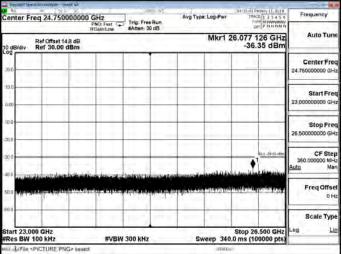
## Band25\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

Fayingit Se	nd wro sawlyter	HTT SA								
	req 15.50	0000000 G	Or Fast	Trig: Free	Run	Avg Type	c Log-Pwr	TRA	MNoy 15, 2019 CE 1 2 3 4 5 6 TE MANNANA ET P NN ISIN N	Frequency
-		161	sain:Low	#Atten: 3	0 dB	_		C	-0.1.1.1.1.1	Auto Tune
10 dB/div										Auto ruin
				1.1					1.11	Center Free
20.0		1	1.00					1		15.50000000 GH
10.0	-								1 2 1	Start Free
0,00					-	-	-		1.1	13,00000000 GH:
10.0	_					_			1.1	Stop Free
30.0										18.00000000 GH
30.0		_					100		DC1 -21 55 (894)	CF Ster
111		1		101	A1	1.1	12.1	1.1.1	1.20	500.000000 MH Auto Mar
0.0	un some		in an	humins	della de la	a line and	( under	alution		FregOffse
50.0	unut and and	in a state of the	i. of the life	Constanting	di limitar	and the second	Distinguistics of the second	na li Mariaka	ananar	OH
111		100.00	h, and i	1.011.0	- an - a				1	Scale Type
Start 13.0	00 GHz			-		_		Stop 1	8.000 GHz	
Res BW			#VBW	300 kHz		SW	veep 480	.0 ms (1	00000 pts)	
UFIE D	<b>PICTURE</b> P	NG> baved					1000	n -		

## Band25\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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# Report No.: E2/2019/90045 Page 415 of 645



## Band25\_5MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	PMADy 11, 2019 MCE 1 2 3 4 5 6 ITE MANNANY DET P MINIMIN		Log-Pwr	Avg Type	e Run 0 dB	Sec. 16	HZ NQ: First G		reg 1.5150	Center I
Auto Tune	55 5 GHz 5.97 dBm		Mkr1 1	1			STREET.	13.8 dB	Ref Offset 1 Ref 30.00	10 dB/div
Center Fred 1 51500000 GH:				•,						20.0
Start Free 30.000000 MH										10:0
Stop Free 3.000000000 GH										100
CF Step 297.000000 MH Auto Mar	001-20151-004			-						30.0
Freq Offse 0 Hi	ánna (in in	land an					Careford and Careford		k, and she are	50.0
Scale Type			1-1				1.0.4		1	10.0
Log Lir	3.000 GHz 100000 pts)	Stop 7 ms (1	eep 286	SW		300 kHz	#VBW		30 GHz 100 kHz	Start 0.0 #Res BV

#### Band25\_5MHz\_QPSK\_1\_0\_3000-8000 MHz

Frequency	E 1 2 3 4 5 6	TRAC	Log-Pwr	Avg Type	Print Print	1000	Hz	0000000 G	req 5.500	Center F
Auto Tu	82 GHz		Mkr		30 dB	#Atten: 3	PNQ: Fast G	19	Ref Offset	
	76 dBm	-41.	(read		_	_	_		Ref 30.0	0 dB/div
Center Fre 5.50000000 G	-							-		20.0
Start Fro 3,000000000 G										0.00
Stop Fr 8.00000000 G										10.0
CF Ste 500.000000 M	(K1-2) 55 mm			_	-				-	30.0
Auto M				1.1		41	1			40.0
Freq Offs 01	-		Tanapado a	and the	-	and the second	-	. Basedon - sub		50.0
Scale Typ		i = j	100	-		10.7	1	1.00		80.0
Log L	.000 GHz 0000 pts)	Stop 8.	eep 480.	Sw		300 kHz	#VBW			start 3.00
			arran a				ved	all baces clea	s changed;	D DPom

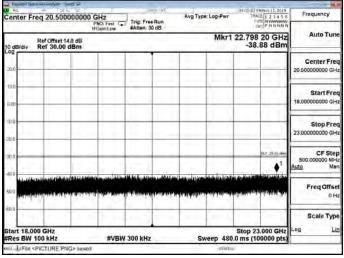
## Band25\_5MHz\_QPSK\_1\_0\_8000-13000 MHz

Ferrige ( ferrit announly) ar Sampi Sa				-	
enter Freq 10.5000000	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	04:04:09 FMMov 11, 2019 TRACE 1 2 3 4 5 6 TUTE MYWWWW DET P NUMBER N	Frequency
Ref Offset 13.8 dB	IFGain:Low	#Atten: 30 dB	Mkr	1 8.956 01 GHz -42.37 dBm	Auto Tun
og	_		T	42.07 0011	
0.0	111	-			Center Fre 10 50000000 GH
00					Start Fre 8,000000000 GH
σ <b>0</b>					Stop Fre 13.00000000 Gi
00				(X1-29.55 mm	CF Ste
no 1	1.1.1.1	1.1	1.000	121125.	500.000000 Mi Auto M
no manufally or Andrew	A.M. SALLARD	industrial southeast	متعمق والمتعادية	We come the Law we have	FreqOffs
Manufacture and a state	infording agentic	adapated with a se	als want high strankly	Personal states and	01
0.0		10.0			Scale Typ
tart 8.000 GHz Res BW 100 kHz	#VBW	300 kHz	Sweep 480	Stop 13.000 GHz	Log L
UFILE SPICTURE PNG> Sew	4.56.64		uncep too		

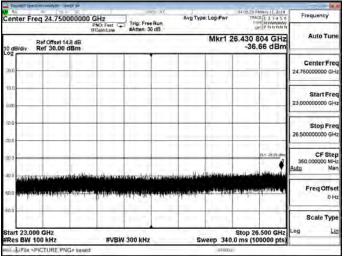
#### Band25\_5MHz\_QPSK\_1\_0\_13000-18000 MHz

กระสุบุที่ " วิตถุมี มีต	
15.50000000 GHz PNC: Fast Trig: FreeBun PNC:	ency
Miniset 138 dB Mkr1 14.804 97 GHz	to Tun
ef 30.00 dBm -42.25 dBm	-
Cen 15.50000	ter Fre
St 13,00000	art Fre
51 18.00000	op Fre
0.1	CF Ste
Auto	Ma
, and the second set being a conservation of the second set of the second s	q Offse 0 H
Sca	ale Typ
GH2 Stop 18.000 GH2	L
TURE PNG> saved	-

## Band25\_5MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_5MHz\_QPSK\_1\_0\_23000-26500 MHz



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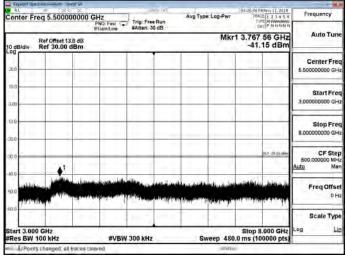
# Report No.: E2/2019/90045 Page 416 of 645



## Band25\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E MWWWWWW F NN GON	TRAC	Log-Pwr	Avg Type	Run	1000	Z VQ: Fast G	P	reg 1.5150	Center
Auto Tun	8 8 GHz 58 dBm	850 568 25.	Mkr1 1.	1.1					Ref Offset 13 Ref 30.00	10 dB/div
Center Fre 1 515000000 GH	-			<b>•</b> 1						200
Start Fre 30.000000 MH										0.00
Stop Fre 3.00000000 GH										10.0
CF Stej 297.000000 MH Auto Ma	DCT -21 EL ADM									30.0
Freq Offse 0 H		indone aprila productive production				hanna	estation		Construction in the last	50.0 0060
Scale Typ	.000 GHz 0000 pts)	Stop 3				300 kHz			30 GHz 100 kHz	start 0.0

## Band25\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



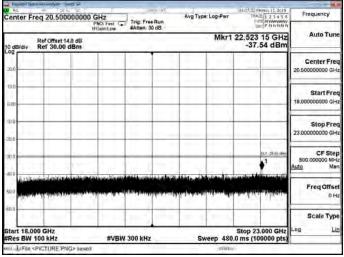
## Band25\_10MHz\_QPSK\_1\_0\_8000-13000 MHz

2.8	MM-5y 15, 2019				are un	-	T.	Sweet and	ayong I (Special concession)
Frequency	2177456	784	ELog-Pwr	Avg Typ	Run	Trig: Fre	PNO: Fast		nter Freq 10
Auto Tur Center Fre	56 GHz		Mkr		30 dB	#Atten: 3	FGain:Low	1	
	46 dBm	-41.	(mile)					et 13.8 dB 00 dBm	Bidiv Ref 3
Center Free			1.0			15.0	1		1
10.50000000 GH	10.01					-			0
-		-	-		-	-	-	-	
Start Free 8,00000000 GH		-			-	1.00			0
Stop Fre	-			-	-	_	-	_	
13.000000000 G					-	100.0	1.00	1.0	
CF Ste	101-21-01-004								
500.000000 MH Auto Ma	1.201	1	1	1		100	1.1.	1	
FregOffse	AND REAL PROPERTY.	a		a londing	(India)	Janela		. in the second	aliterstan
OH	Shield Shield	and the state	A MARCHINE	(In martin	de la contrate de	distant field	-	and the second	out the state of the
Scale Typ		and the			-		10.0	-	
	.000 GHz	Oton 12		_		1			rt 8.000 GHz
	00000 GHZ	.0 ms (10	veep 480	SV	·	300 kHz	#VBW	-	es BW 100 kH
		n-	10100					PNG> seved	UFILE SPICTUR

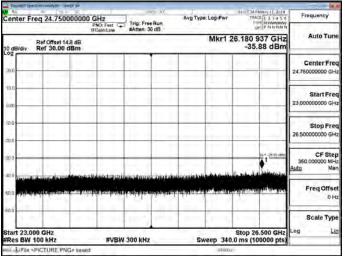
#### Band25\_10MHz\_QPSK\_1\_0\_13000-18000 MHz

							र्भद्र मान	minimity for Sec	
Frequency	0 PMMoy 11, 2019 RACE 1 2 3 4 5 6 10 E MWWWWW	Pwr	vg Type: Log-F	Run	Trig: Free	Hz	00000 G	q 15.5000	nter Fre
	The second second second			0 dB	#Atten: 3	NO: Fast G	IF		_
Auto Tur	16 29 GHz 1.96 dBm	lkr1 17	M					Ref Offset 13. Ref 30.00 d	B/div
Center Fre								1	
15.50000000 G		-		-	-			1	
	1.00	-	-		-			-	
Start Fre 13,000000000 Gi	1 1	-	-	-	-	1		1	
Stop Fri	_			_	_				
Stop Fre 18.00000000 Gi		-		-		1.1.1			
CF Ste	001-29.55 (004						_		-
500.000000 Mi Auto M				1	121	111		11	1.2
Freq Offs	a demand the	الم الم الم	aundian	delubara		Janster	Addition	hand	
01	and this starting the	Analast	Antala bills	diamph in the	distant	-	Territoria.	al A Mithania	
Scale Typ	1001		1.1.1. terms	1.00	100.0	-11			deres h
Log L		S	-						rt 13.00
	100000 pts)	480.01		-	300 kHz	#VBW	-	CTURE PNC	s BW 1

## Band25\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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# Report No.: E2/2019/90045 Page 417 of 645



## Band25\_10MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6	TRAC	ELog-Pwr	Avg Type	e Run 0 dB	1000	Z AD: Fast G	PN	reg 1.5150	Center I
Auto Tuni	1 3 GHz 57 dBm		Mkr1 1.	1.7				B dB	Ref Offset 13 Ref 30.00	10 dB/div
Center Free 1 51500000 GH	-			¥1						20.0
Start Free 30.000000 MH										10.0
Stop Fre 3.00000000 GH										10 0
CF Step 297.000000 MH Auto Ma	001-3151-00e									300
Freq Offse 0 H					laster a	in the literate	mlaren		andraa	
Scale Type	.000 GHz	Stop 3 .7 ms (10	veep 286	Sv		300 kHz	#VBW		0 GHz 100 kHz	Start 0.0

## Band25\_10MHz\_QPSK\_1\_0\_3000-8000 MHz

	alt - stary								
enter Freq 5	500000000	PNO: Fast	Trig: Free	Run	Avg Type	Log-Pwr	TRA	MNOV11.2019 2 1 2 7 4 5 6 5 M WWWWWW 5 P NN NN N	Frequency
	iffset 13.8 dB 30.00 dBm	IFGain:Low	#Atten: 3	o dB		Mkr	1 3.819	41 GHz 51 dBm	Auto Tun
200	-			_					Center Fre 5.50000000 GH
10.0 X00									Start Fre 3,000000000 GH
00									Stop Fre 8.000000000 GH
00	¢'	-		-	-			DL1-3155.00M	CF Ste 500.000000 MH Auto Ma
20.0 Million Party and	and the second			deelasian gevennen				and a cash	Freq Offse 0 H
tart 3.000 GHz		#VBW	( 300 kHz		Sw	veep 480	Stop 8	.000 GHz	Scale Typ

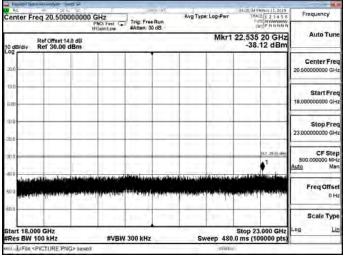
## Band25 10MHz OPSK 1 0 8000-13000 MHz

Feyngel ( fam 2 normaniyater - ment Sir 8.1					
Center Freq 10.500000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	04-25:10 PM Nov 11, 2019 TRACE 1 2 3 4 5 6 TUTE NOVEMBER N	Frequency
Ref Offset 13.8 dB	IFGain:Low	satten: 30 dB	Mkr1	10.763 98 GHz -42.81 dBm	Auto Turn
20.0					Center Free 10.50000000 GH:
10.0					Start Free 8,000000000 GH
00					Stop Fre 13.00000000 GH
20.0		A <sup>1</sup>		(X.1 - 20 55 mbr	CF Ster 500.0000000 MH Auto Ma
20.0 Half and a solution of the solution	and the second second	landariya atarihi ya	a vicular dans bilanda Marti Massar Denga para repo	in and the Second states in the law	Freq Offse 0 H
*0.0 Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	Sween 490	Stop 13.000 GHz .0 ms (100000 pts)	Scale Type
UFIE SPICTURE PNG> 10		500 MIL	aweep 480		

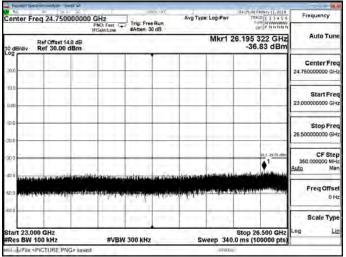
Band25_10MHz	_QPSK_	1_0	_13000-18000 MHz
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	0000 11112	-	_		_		_	un sandyter in		
Frequency	TRACE 1 2 3 4 5 6	Pwr	Avg Type: L	e Run	Trig: Fre	Hz	000000	q 15.500	enter Fr	
Auto Tun	314-0010 00424		_	30 dB	#Atten: 3	NO: Fast G	16	_	_	
1.00	et 138 dB Mkr1 14.929 22 GHz .00 dBm -41.89 dBm									
Center Free				1	1.1				pog	
15.50000000 Gi Start Fri 13.000000000 Gi Stop Fri 18.00000000 Gi		-	-	-	-			1	20.0	
	_	-	_	-	-			-	10.0	
Start Free 13,000000000 GH		-	-	-					00.00	
Stop Free		-1	_		-				10.0	
18.00000000 GH	_							1	in o	
CF Ster	1X1 -20 55 mm	10		1.7			_		21.1	
500.000000 MH Auto Mar	1112						12.21	11-1	20.0	
FregOffse	distant bigonistic	all when		Samuelda	of the pain	in the	-	مستعلقت	a o	
0H	-	in the	No. Property		- Bulling	or daments	and the second	-	50.0	
				1.4.2	60			-	0.0	
Scale Type								1	_	
Log Li	top 18.000 GHz ns (100000 pts)	Start 13.000 GHz Stop 18.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 480.0 ms (100000 pts)								
t		al attac					G> bayed	CTURE PN	UFIe s	

## Band25\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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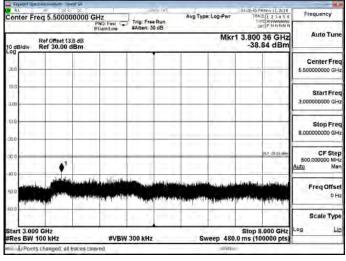
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

# Report No.: E2/2019/90045 Page 418 of 645

## Band25\_10MHz\_QPSK\_1\_0\_30-3000 MHz

		Avg Type: Log-Pwr Run dB	04:29:45 FMNov 11, 2019 TRACE 1 2 3 4 5 6 TRACE 1 2 3 4 5 6 TRACE P N N FM N	Frequency
Ref Offset 13.8 dB	A A A A A A A A A A A A A A A A A A A		1.905 633 2 GHz 24.99 dBm	Auto Tur Center Fre 151500000 GH Start Fre 30.000000 MH Stop Fre 3.00000000 GH
20.0		*		Center Fred 1 515000000 GHz
10.0				Start Free 30.000000 MH
10.0				Stop Free 3.000000000 GH
300			001-3161-0 <del>0</del> 4	CF Step 297.000000 MH Auto Mar
50.0 50.0	ide salara takén kanana		Contract of Sciences and Sciences	Freq Offse 0 Ha
20.0 Start 0.030 GHz #Res BW 100 kHz	#VBW 300 kHz		Stop 3.000 GHz 6.7 ms (100000 pts)	Scale Type

## Band25\_10MHz\_QPSK\_1\_0\_3000-8000 MHz



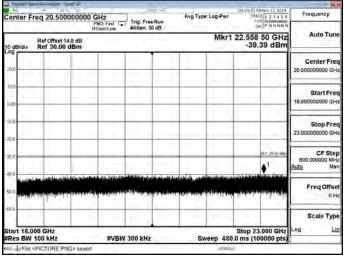
## Band25 10MHz OPSK 1 0 8000-13000 MHz

Fernige (format warman harr and part and		_		A	
Center Freq 10.5000000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	04-28-36 FM Moy 11, 2019 TRACE 1 2 3 4 5 6 10 - NY WWWWW	Frequency
Ref Offset 13.8 dB	IFGain:Low	BAtten: 30 dB	Mkr	1 8.983 76 GHz -42.42 dBm	Auto Tun
0.0					Center Fr 10.50000000 G Start Fr 8,000000000 G
0.00					Start Fre 8,000000000 GH
10.0					Stop Fre 13.000000000 GH
30 0				(X.1 - 20 55 mbr	CF Ste 500.000000 MH Auto Ma
an a manager and a second state		ay ya maga na ma ana ana ana ana ana ana ana ana	an anni 111 a da bhailteann Mar an an an an an an an an		Freq Offsi 0 F
too Start 8.000 GHz Res BW 100 kHz	#VBW	300 kHz	Sween 480	Stop 13.000 GHz 0 ms (100000 pts)	Scale Typ
UFILE SPICTURE PNG> bev		500 MHZ	GHCCP 400		

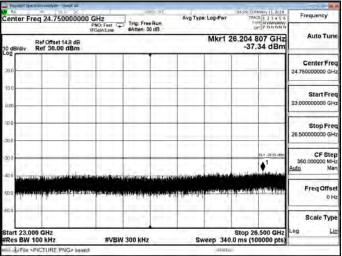
## Band25 10MHz QPSK 1 0 13000-18000 MHz

					_		र्ग्स क्र	unionly provide	
Frequency	04:09:10 PMMoy 11, 2019 TRACE 1 2 7 4 5 6 THE MYNOWY	pe:Log-Pwr	Avp	e Run	Trig: Fre	HZ O: Fast G	000000 G	q 15.500	Center Fi
Auto Tuo	19-2010 1010 1			30 dB	#Atten: 3	sain:Low	IFI		_
Auto Tu Center Fri 15.50000000 G Start Fri 13.00000000 G Stop Fri 18.00000000 G CF Stt 500.000000 M Auto M	17.558 00 GHz -42.15 dBm	Mkr1					a dB IBm	Ref Offset 13 Ref 30.00	0 dB/div
									20.0
									0.00
Stop Fre 18.00000000 GH						-			100
CF Ste	1X.1 -21 55 dim	100							30.0
	1			-	17.1	1.1		1	40.0
Freq Offse	Constant of the stationer	in salar	vicelle Statio	(Alexandream	Rubins		a hand a little		
OF	Auguer 15 destruction is	a na sta sta sta sta sta sta sta sta sta st	an protection	ALL MARKED	meren	(Million)	and a superior	and any state of	171094
Scale Typ		100			100	1.00	-	1.1	KO 0
Log Li	Stop 18.000 GHz 0 ms (100000 pts)	ween 480	1	,	300 kHz	#VRM	-		start 13.0
	1 1			-	500 Mills		haved <	ICTURE PN	

## Band25\_10MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_10MHz\_QPSK\_1\_0\_23000-26500 MHz



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## Band25\_15MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	TACE 1 2 3 4 5 6	g-Pwr	Avg Type:	ree Run 30 dB	1.0.0	IZ NO: Fast G	P	req 1.5150	Center
Auto Tur Center Fre 1 51500000 Gi Start Fre 30.00000 Mi Stop Fre 3.0000000 Gi	395 5 GHz 5.02 dBm						3.8 dB	Ref Offset 1 Ref 30.00	10 dB/div
Center Fre 1 51500000 GH			<b>\$</b> 1						20.0
Start Fre 30.000000 MH									10.0
Stop Fre 3.00000000 GH									10.0
CF Ste 297.000000 MH Auto Ma	001-2151-004								300
Freq Offse 0 H	har witten	an him on the	1.0.000	and since	tofer of a	in the local	Lanam	with the station	50.0 000
Scale Typ	p 3.000 GHz (100000 pts)	St p 286.7 m		-	( 300 kH	#VBW	gastration o	30 GHz 100 kHz	Start 0.

## Band25\_15MHz\_QPSK\_1\_0\_3000-8000 MHz

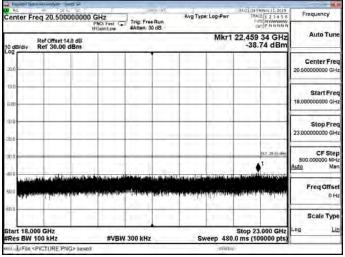
								etta 29	mining -	tyrigil ( Speca w
Frequency	1 2 3 4 5 6 E 1 2 3 4 5 6 E MWWWWW	TRA	ELog-Pwr	Avg Type	Run	A	NO: Fast	00000 G	q 5.5000	
Auto Tun	IFGent.cw         #Amer: 30 dB.         Mkr1 3,917 86 GHz           0 dB/div         Ref 0ffset 13.8 dB         41.71 dBm           0 dB/div         Ref 30.00 dBm         -41.71 dBm									
Center Fre				-	_					-
Start Fre 3,00000000 GH										, ,
Stop Fre 8.00000000 GH					_					
CF Ste 500.000000 Mi Auto Mi	DC1-20-55-004			-	-			1		
Freq Offs 0 F		all dan de	ana		-	South State	10000000000000000000000000000000000000		and the second	
Scale Typ	.000 GHz	Stop 8 0 ms (10	veep 480	Sw		300 kHz	#VBW			rt 3.000 G

## Band25 15MHz OPSK 1 0 8000-13000 MHz

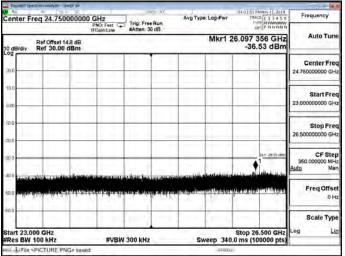
Reging I for a non-only training SA	-	and INT	_1_0_0000	04-21:15 PM Noy 11, 2019	
Center Freg 10.5000000	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB t0 dB/div Ref 30.00 dBm	Auto Tune				
0.0					Center Free 10.50000000 GH:
0.00					Start Free B,000000000 GH
100					Stop Free 13.000000000 GH
x00				(K1-3) 51 dbe	CF Step 500.0000000 MH Auto Ma
and the second se	an lipitharan Tana Tina	n forstel an <sub>e</sub> diske sonst-	ne Billion de Éditor de La Section de La Section de La Section de La Section de La	nggar tenting dia ang	Freg Offse 0 H
*0 0				Stop 13.000 GHz	Scale Type
Res BW 100 kHz		300 kHz	Sweep 480	.0 ms (100000 pts)	

					_		n sh	arriantype in			
Frequency	TRACE 1 2 3 4 5 6	g-Pwr	Avg Type	Run	LAN	Hz O: Fast ( )	00000 G	q 15.5000		Cen	
Auto Tun	1.0-00 1010000	Plantow water outo									
	-42.10 dBm	1000 1		-	_	Ref Offset 13.8 dB IB/div Ref 30.00 dBm					
Center Free	- 11 -				1		- 1			200	
10.000000000				1	100	1.11		1	1		
Start Free 13,000000000 GH										10.0	
Stop Free 18.00000000 GH									1	100	
CF Ste	(K.1 - 21 55 dire								-	30.0	
500.000000 MH Auto Mar	11.241		4	1	11.1	1.1		1	1.55	40.0	
FregOffse	. and the second	dela mininte	a strategies	and a street	minister	Line name	abstrails		Lain		
OH	and the second s	and a state	hold if spatio	(Neprinter)	(m) (m)	المدخ وأوك	uitin in th	and improved	-	50.0	
Scale Type	- 1	-			-				1.00	10.0	
Log Li	op 18.000 GHz s (100000 pts)	p 480.0	Sw		300 kHz	#VBW			t 13.00		
	o treates brok	1000 m	-	-	See hits		> baved	CTURE PN			

## Band25\_15MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_15MHz\_QPSK\_1\_0\_23000-26500 MHz



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# Report No.: E2/2019/90045 Page 420 of 645

## Band25\_15MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	6 FMNoy 11, 2019 RACE   2 7 4 5 6 THE MWWWWW DET F NNNNN	WF TH	Type: Log-Pwr	Avg Ty	e Run 0 dB	Trig: Fre	Z VO: Fast G	P	reg 1.51500	Center F	
Auto Tun	03 2 GHz 5.58 dBm	Ref Office1 13.8 dB Mkr1 1.875 903 2 GHz dB/div Ref 30.00 dBm 25.58 dBm									
Center Free 1 515000000 GH				•1						20.0	
Start Free 30.000000 MH										0.00	
Stop Free 3.000000000 GH										10.0	
CF Step 297.000000 MH Auto Mar	001-29.51.054									30.0	
Freq Offse 0 H			مانترور اندر الدور موجود الدور الدور			a specialized	un ant and	-	canatowies		
Scale Type		1		1	initi C	(particular)	and an interest	a farmer	(And Control of Contro	eo o	
Log Li	3.000 GHz 100000 pts)	Stop 286.7 ms (1	Sweep 286			300 kHz	#VBW			Start 0.03	

## Band25\_15MHz\_QPSK\_1\_0\_3000-8000 MHz

								restriction and the	Reprigit Spectrum AL	
Frequency	MACE 1 2 3 4 5 6	TW	e: Log-Pwr	Avg Typ	ee Run	Trig: Free	PNO: Fast	5.500000000 G		
Auto Tun	Ref Offset 13.8 dB Mkr1 5,629 28 GHz all/div Ref 30.00 dBm -41.85 dB -41.85 dBm									
Center Fre 5.50000000 GH					-				ő	
Start Fre 3,00000000 GH										
Stop Fre 8.000000000 GH									0	
CF Ste	05.1 -31.55 mm		100		1.1				0	
500.000000 MH Auto Ma	12	1	127.1		41	1-1	11.2.4	1	0	
Freg Offse 0 H	n sa analana is is Ngaporen nigang	di di dina		a de la desta		Antonia State	ing and its		o Relational	
Scale Typ	1	1.0	1111		-	100		100	0	
Log Li	p 8.000 GHz (100000 pts)	Stop	veen 480	S	7	300 kHz	#VBW		art 3.000 GH	
	prov					See Mills	0.56.63	inged; all traces cie	15 211.111	

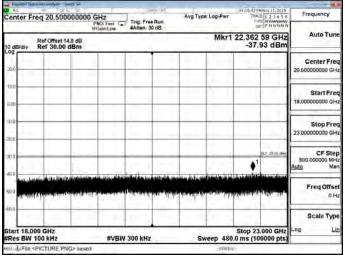
## Band25 15MHz OPSK 1 0 8000-13000 MHz

Foreg 10.5000000	DO GHz PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pw	04 11 18 PM Nov 11, 2019 TRACE   2 3 4 5 6 TITE M WWWWW	Frequency
Ref Offset 13.8 dB	Auto Tune				
20.0					Center Free 10.500000000 GH
0.00					Start Fre 8,000000000 GH
10.0					Stop Fre 13.000000000 GH
200		A1		(x1-2) 51 die	CF Step 500.0000000 MH Auto Ma
2010 March 1990 March 1990 And	ulia linina (n		in a like on a matasida Mili pagara pinang sa	1	Freq Offse 0 H
*0.0 Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	Sweep 41	Stop 13.000 GHz	Scale Type
UFIE <picture png=""> sev</picture>		500 R112	Giftep fi		

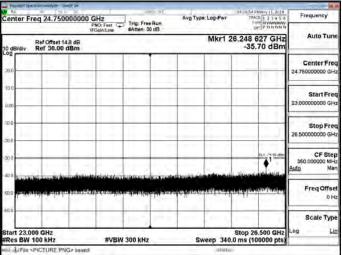
## Band25 15MHz QPSK 1 0 13000-18000 MHz

	an international states of the second	भेद्र माम		_					100 m 1 m	
Center Fi	reg 15.500	p	Or Fast	Trig: Fre	Run	Avg Type	: Log-Pwr	TRA	CE 1 2 3 4 5 6	Frequency
	IFGintum #Atten: 30 dB EEE #At								Auto Tun	
og	Ref 30.00	dBm	41.00 00						.00 0.011	
20.0					-	-		-	1.00	Center Fre 15.50000000 GI-
0.00										Start Fre 13,000000000 GH
10 0 30.0										Stop Fre 18.00000000 GH
0.0							100		DC1 -21 55 (894)	CF Ste
400		1	1.11	101	-		10.0		1.26	500.000000 MH Auto Ma
. die	um alter a	dinensit	line Inter	MILITAR	heaux he	in the second second	a antimated	we llew	alline	FregOffs
Alerto Alerto	the standard	and the second	atterid	and animal	a name	i kinan i ki	William State	durch of		01
80.0	1	1		1			1000		1-1	Scale Typ
start 13.0			#VBW	300 kHz		Sv	veep 480	Stop 18	8.000 GHz 00000 pts)	Log Li
Pr. 10.14	PICTURE PN	G2 haved			-		1000 m		in the prov	

## Band25\_15MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_15MHz\_QPSK\_1\_0\_23000-26500 MHz



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## Band25\_15MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	E 1 2 3 4 5 6 E MWWWWW	TRAC	CLog-Pwr	Avg Type	e Run	1000	HZ NO: Fast G	P	Freq 1.5150	Center		
Auto Tuni	0 8 GHz 32 dBm	Ref Offset 138 dB Mkr1 1.900 910 8 GHz 0 dB/div Ref 30.00 dBm 26.32 dBm										
Center Free 1 515000000 GH				1						20.0		
Start Free 30.000000 MH										10.0		
Stop Free 3.00000000 GH										100		
CF Step 297.000000 MH Auto Mar	0.1-2151 <i>0</i> 94				-					30.0		
Freq Offse 0 H			anine anitetie Aparto anitetie			-		and a filmeter	tomer and	-10 0		
Scale Type		Stop 3	eep 286			300 kHz			030 GHz V 100 kHz			

## Band25\_15MHz\_QPSK\_1\_0\_3000-8000 MHz

1000	151PMNoy 11, 2019				NOR ONE			read and the second second	Feyigit Sema	
Frequency	TRACE 1 2 3 4 5 6	WF	ype:Log-Pwr	Avg Ty	eRun	A	PNO: Fast C	5.500000000	enter Fre	
Auto Tur	IFGent.cw         #Atten: 30 dB.         Mkr1 5.040 67 GHz           0 dB/div         Ref 0ffset 138 dB         40.78 dBm           0 dB/div         Ref 30.00 dBm         -40.78 dBm									
Center Fre 5.50000000 GH				-					0.0	
Start Fre 3,00000000 GH										
Stop Fre 8.00000000 GH									00 	
CF Ste 500.000000 Mi Auto Mi	(C1-2) (S-00)				-	•1			00	
Freq Offs 01				ali satisfi		erst group	A Republic A	Particular States		
Scale Typ		1		-		100		1	0.0	

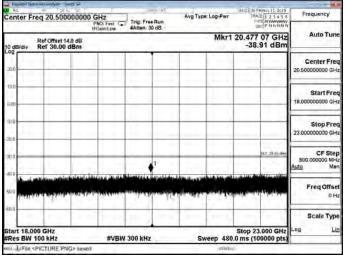
## Band25 15MHz OPSK 1 0 8000-13000 MHz

Feyngel ( Send announly) the Samet SA			. T.	04:23 00 PM Noy 11, 2019	
Center Freg 10.500000	PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 di to dB/div Ref 30.00 dBr	Auto Tune				
20.0					Center Free 10.500000000 GH:
0.00					Start Free 8,000000000 GH
100					Stop Fre 13.00000000 GH
200				151 - 21 51 day	CF Step 500.0000000 MH Auto Ma
50.0 Alleringer and a particular	antinente palacher a	ala min and have		and the second sec	Freq Offse 0 H
*00 Start 8.000 GHz				Stop 13.000 GHz	Scale Type
Res BW 100 kHz		300 kHz	Sweep 48	0.0 ms (100000 pts)	

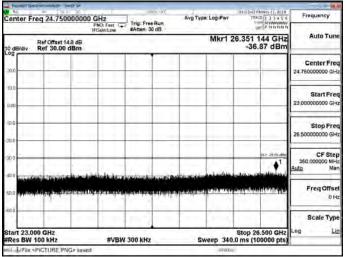
## Band25\_15MHz\_QPSK\_1\_0\_13000-18000 MHz

	a minimizer in	र्गद्ध मान		_	-			1.51		
Center F	reg 15.5000	000000 G	Hz	Last Co.	NO= (N7)	Avg Type	Log-Pwr	TRA	MN-y 15, 2019	Frequency
		p	VO: Fast	#Atten: 3	e Run 0 dB			0	PNNNN	Auto Tune
10 dB/div	Ref Offset 13 Ref 30.00 d				Mkr1 16.496 98 GHz -42.21 dBm					
Log				1.1		1.00	1.00	1		Center Free
20.0								1		15.50000000 GH
10.0	-			-		-	-			Start Free
0.00	-	-				-	-	1		13,000000000 GH:
10.0			-	-	_	-				Stop Free
30.0	1.1		1 - 1 - 1	1.00						18.00000000 GH
30.0		_					100		DET -29 55 APM	CF Ste
n la	1	1		1011	1.1		1	1.1	1.1	500.000000 MH Auto Mar
40.0	on the state			LE House	ale parts	a marine	Americal	. Since the	A STATE OF THE ACT	FregOffse
50.0	in arthurs	-	(Department	Internation	A standarday	South Description	and the second	Section 12	in the straight	0 Hi
e0 0		-		-						Scale Type
Start 13.0	00 GHz		-	-		-	-	Stop 18	.000 GHz	
#Res BW		_	#VBW	300 kHz	1. C.	SW		.0 ms (10	00000 pts)	
D DFile	PICTURE PN	G> saved					-0.00	11		

## Band25\_15MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_15MHz\_QPSK\_1\_0\_23000-26500 MHz



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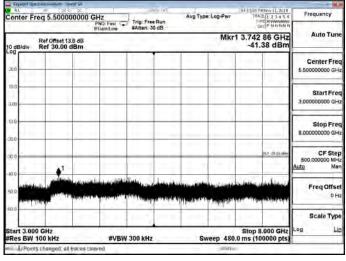
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## Band25\_20MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	04 14:00 PMNov 11, 2019 TRACE 1 2 3 4 5 6 FIRE MUMMMMM Det P NINGN N	e:Log-Pwr	Avg Typ	ee Run 30 dB	1000	Hz PNO: Fast G		req 1.5150	Cente
Auto Tur	Ref Offset 13.8 dB Mkr1 1.851 162 8 GHz 10 dB/div Ref 30.00 dBm 25.79 dBm								
Center Fre 1 515000000 GH			•1						20.0
Start Fre 30.000000 MH									10:0 0:00
Stop Fre 3.00000000 GH									10.0
CF Ste 297.000000 MH Auto Ma	- 151 - 21 51 dise		-				-		30.0
Freq Offso 0 F	iner an heid starte Commentation and an and	. Annada (A		-			1.100,0000	terret best an	50.0 000
Scale Typ				1				Manuel Barners	10.0
Log L	Stop 3.000 GHz ms (100000 pts)	weep 286.	S	z	V 300 kHz	#VBW		30 GHz 100 kHz	

## Band25\_20MHz\_QPSK\_1\_0\_3000-8000 MHz



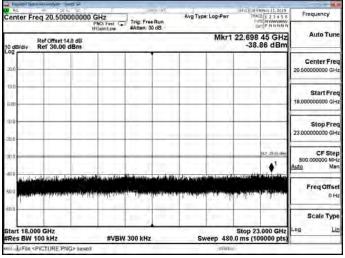
## Band25 20MHz OPSK 1 0 8000-13000 MHz

Fernige ( Senial announce) (announce) Sh	_				
Center Freg 10.50000000	O GHZ PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	04.1 112 PMNov 11, 2019 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB	Auto Tune				
0.02					Center Free 10.50000000 GH:
0.00					Start Free 8,000000000 GH
00-					Stop Fre 13.000000000 GH
200 <b>• • • • •</b> •				(X1-3155 ethe	CF Ster 500.000000 MH <u>Auto</u> Ma
20.0 Normal and set of the set of	n Manadarana Manadarana	el andres si and filma) en englista propio propi	n tê dil ke ji ye di Bardîn Karalînê Kurdî navçeyê navçe ye di partinî	and the state of the	Freq Offse 0 H
Start 8.000 GHz Res BW 100 kHz	#VRW	300 kHz	Sween 48	Stop 13.000 GHz 0.0 ms (100000 pts)	Scale Type
UFIE SPICTURE PNG> bew			anoth to		

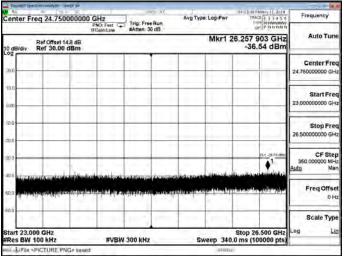
Band25_2	0MHz_QPSK	_1_0	_13000-1	18000 MHz
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	- I am simply the							-	-		
Center F	nter Freg 15,50000000 GHz		15.500000000 GHz PND: Fast Can Trig: Free Run Avg Type:		: Log-Pwr	0411 110 MNov 11, 20 ag-Pwr TRACE   2 3 4 5 TITE NYWYA		Frequency			
	Det Officet 130 dD Mkr1 16,205 28 GHz										
10 dB/div											
20.0					_					Center Fred 15.50000000 GH	
0.00										Start Free 13,000000000 GH	
10.0										Stop Free 18.000000000 GH	
30.0		_					100		DK1 -39 55 mm	CF Ster	
40.0			1.1	1011		A1	0.1			500.000000 MH Auto Mar	
50.0	tradition of the second	Locard setter						, idatisis garree ge	warde inter	Freq Offse 0 Hi	
eo o										Scale Type	
Start 13.0 Res BW			#VBW	300 kHz		Sw	veep 480	Stop 18 0 ms (10	.000 GHz	Log Li	
DFIG.	PICTURE PI	NG> baved		11.11.1		-	man	-		c	

## Band25\_20MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_20MHz\_QPSK\_1\_0\_23000-26500 MHz



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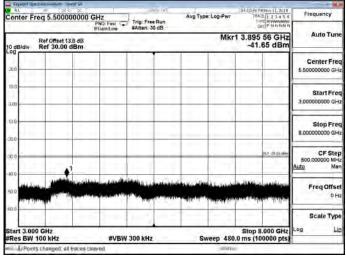
# Report No.: E2/2019/90045 Page 423 of 645



## Band25\_20MHz\_QPSK\_1\_0\_30-3000 MHz

Center Freq 1.515000000 G		e Run	Avg Type: Log-Pwr	04 11:40 PM May 11, 201 TRACE 1 2 3 4 5 TITE M WWWW Get P 14 M M	6 Frequency
Ref Offset 13.8 dB 0 dB/div Ref 30.00 dBm	z Auto Tune				
20.0			1		Center Free 1 515000000 GH
10.0 0.00					Start Free 30.000000 MH
-10.0					Stop Free 3.00000000 GH
300				DCT -21 55 40	CF Step 297.000000 MH Auto Mar
400 500 (1997)				dametaka maatu	Freq Offset 0 Ha
start 0.030 GHz	#VBW 300 kH		Sweep 286	Stop 3.000 GH	Scale Type

## Band25\_20MHz\_QPSK\_1\_0\_3000-8000 MHz



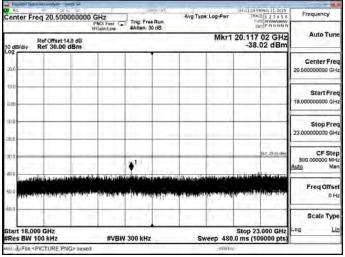
## Band25 20MHz OPSK 1 0 8000-13000 MHz

Keyngel (net announly)re Sampt Sk	_			5 13000 10112					
Center Freq 10.5000000	PNO: Fast	Trig: Free Run	Avg Type: Log-Pr	04.10.20 EM May 11, 2019 NF 784CE   2 3 4 5 6 1015 M WWWWWWWW	Frequency				
IFGaint.vvv #Atten: 30 dB 000000000000000000000000000000000									
20.0					Center Free 10.500000000 GH:				
0.00					Start Free B,000000000 GH				
10.0					Stop Fre 13.000000000 GH				
200	_	A1		1X1-3151-094	CF Stej 500.000000 MH Auto Ma				
		and the data and an an year an an an	and a second	nder all controlling dentities in	Freg Offse 0 H				
800 Start 8.000 GHz #Res BW 100 kHz	#VBW	300 kHz	Sween	Stop 13.000 GHz	Scale Type				
UFIE SPICTURE PNG> bey				in a crooses pray					

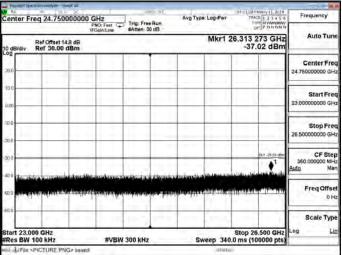
#### Band25 20MHz QPSK 1 0 13000-18000 MHz

	ng an saniyin S					<u> </u>				
	nter Freq 15.50000000 GHz		15.50000000 GHz PNC Fest CT Trig: Free Run Avg Type: Log-		: Log-Pwr	TUTH MANUARY				
i inter	Ref Offset 13B dB Mkr1 16.255 28 GHz									
10 dB/div	3/div Ref 30.00 dBm -42.03 dBm									-
20.0				-	-	-			1	Center Free 15.50000000 GH
0.00										Start Free 13,000000000 GH
10.0										Stop Free 18.00000000 GH
30.0		_							DK1 -39 55 mm	CF Ster
40.0			1.11	19.1		A1	0.11			500.000000 MH: Auto Mar
50.0	wa dikini.		A Burger	ajatet ajat	Adams	1		areas date		Freq Offse 0 Hi
10.0										Scale Type
Start 13.0 Res BW			#VBW	300 kHz	-	Sw	veep 480	Stop 18	.000 GHz	Log Lir
UFIR	PICTURE PN	G> bayed					-010	-		c

#### Band25\_20MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_20MHz\_QPSK\_1\_0\_23000-26500 MHz



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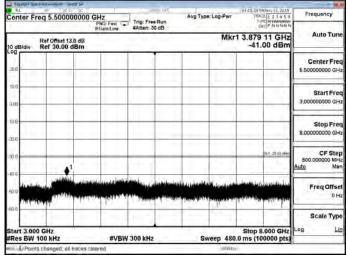
# Report No.: E2/2019/90045 Page 424 of 645



## Band25\_20MHz\_QPSK\_1\_0\_30-3000 MHz

Frequency	MM-0y 11, 2019 CE 1 2 3 4 5 6 TE MYWWWWW ET P MM/MWW	TRAC	Log-Pwr	Avg Type	e Run	1.0.0	Z Q: Fast G	PN	req 1.5150	Center			
Auto Tun	Mkr1 1.896 129 1 GHz 25.77 dBm						Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm						
Center Fre 1 515000000 GH	1			•,						20.0			
Start Fre 30.000000 MH										10:0 0,00			
Stop Fre 3.00000000 GH							-			10.0			
CF Ste 297.000000 MH Auto Ma	(X1-3) 51 AM									30.0			
Freq Offse 0 H					al al anna sta	umiti un		Con a finite	. three the	50.0 (the			
Scale Typ	8.000 GHz	Stan 2					ed address	Peatr-acc	DO CHY	start 0.0			
	00000 pts)	7 ms (10	eep 286.	SW		300 kHz	#VBW		100 KHz	Res BV			

## Band25\_20MHz\_QPSK\_1\_0\_3000-8000 MHz



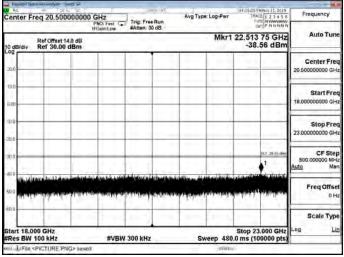
# Band25 20MHz OPSK 1 0 8000-13000 MHz

Reprint for a non-inducer inducts SA				04:15:41 PM May 11, 2019	
Center Freg 10.5000000	DMO: East I Ift	g: Free Run Iten: 30 dB	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.8 dB 0 dB/div Ref 30.00 dBm	Auto Tune				
0.0					Center Free 10 50000000 GH:
0.00					Start Free 8,000000000 GH:
200					Stop Free 13.000000000 GH
20.0				(X.159 55 albe	CF Stej 500.000000 MH Auto Ma
50.0 Projekter poly of powerse a poly	adama na dini sa mangina na	ili	alan yanan se ana ang sa	land charles public and	Freg Offse 0 H
start 8.000 GHz				Stop 13.000 GHz	Scale Type
Res BW 100 kHz	#VBW 300	kHz	Sweep 480	0.0 ms (100000 pts)	

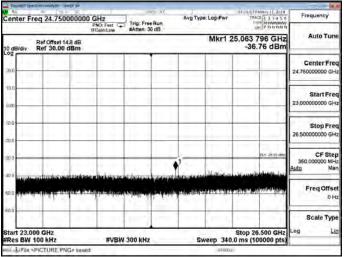
#### Band25 20MHz QPSK 1 0 13000-18000 MHz

RL -	el manyte in el 1919	1. X	, T		(N)		1.1.2.		MNOV 11, 2019	Frequency
Center Freq 15,500000000 GHz PN0: Fest IFGainLow				PNO: Fast Call Trig: FreeRun				764	E 121456	1.01
10 dB/div	Ref Offset 13 Ref 30.00 c	8 dB IBm					Mkr1		60 GHz .24 dBm	Auto Tune
20.0										Center Free 15.50000000 GH
10 0 3.00										Start Free 13,000000000 GH
10 Ö										Stop Fre 18.00000000 GH
30.0									DL1-29.55 (0)	CF Ster
40.0	1.1		1.2			1.1	12.6		41	Auto Mar
50.0	A DESCRIPTION	An L'Adalan	adalah dalah Manapatrik	in a state of the	alabi palio			andiska dar	nontrino.	Freq Offse 0 H
60.0			1					1.00		Scale Type
start 13.0		-	#VBW	300 kHz		Sw	eep 480	Stop 18	8.000 GHz 00000 pts)	Log Li
P. 2	PICTURE PN	3> baved		1.1.1.1.1.1.1.1	-					t

## Band25\_20MHz\_QPSK\_1\_0\_18000-23000 MHz



## Band25\_20MHz\_QPSK\_1\_0\_23000-26500 MHz



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