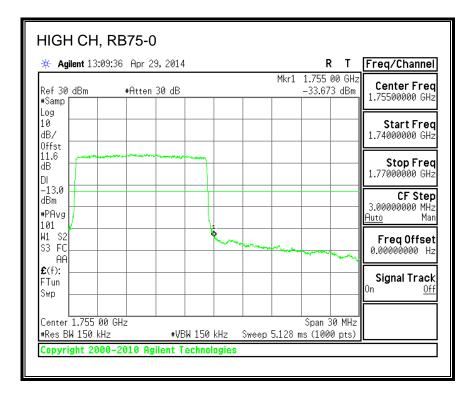


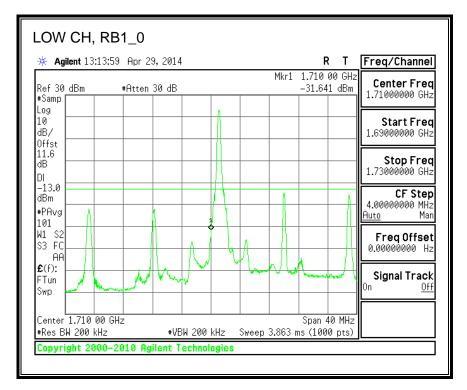
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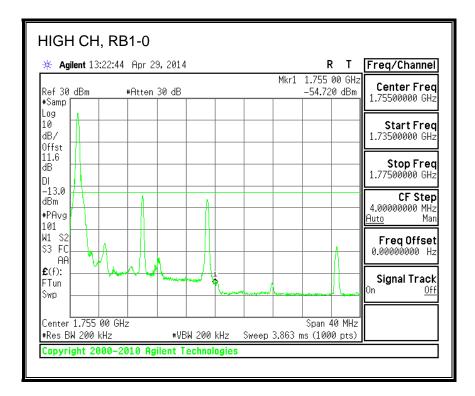
🔆 Agi	lent 13:00	:45 Apr	29,2014					R	Т	Freq/Channel
Ref 30 #Samp	dBm	#Atte	n 30 dB			1	Mkr1	1.710 0 -33.445		Center Fred 1.71000000 GHz
Log 10 dB/										Start Frec 1.69500000 GHz
Offst 11.6 dB DI					-			•		Stop Fred 1.72500000 GHz
-13.0 dBm #PAvg										CF Step 3.00000000 MHz <u>Auto</u> Mar
101 W1 S2 S3 FC AA		www.www		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ý 					Freq Offset 0.00000000 Hz
£ (f): FTun Swp										Signal Track On <u>Of</u>
	1.710 00 W 150 kHz		#UR		LU-7	Sween	5 1 28 r	Span 3 ns (1000		



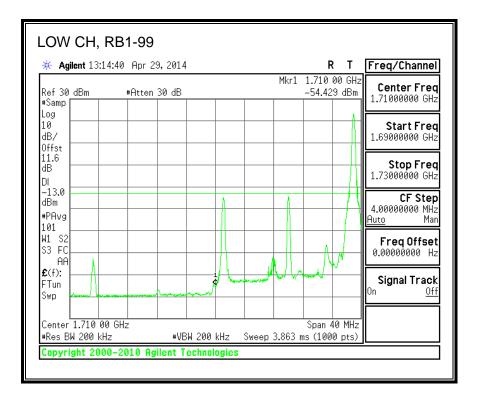
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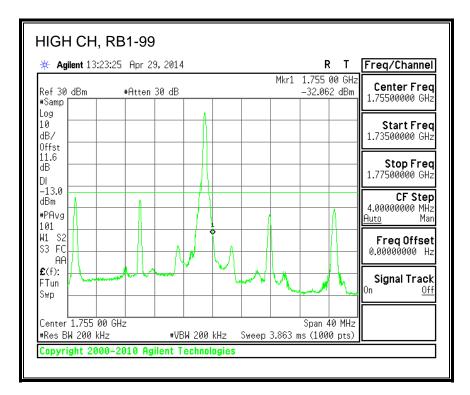
QPSK, (20.0 MHz BAND WIDTH)



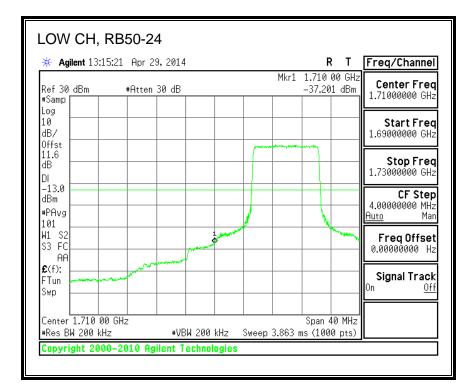


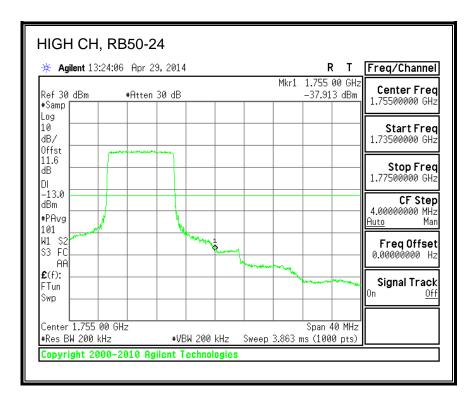
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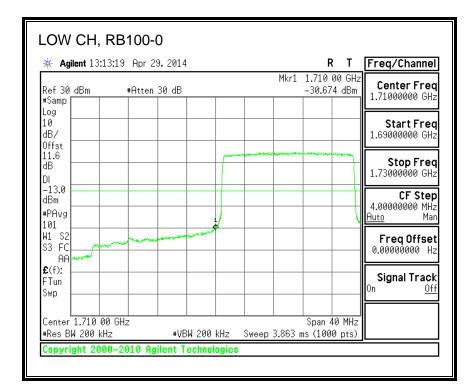


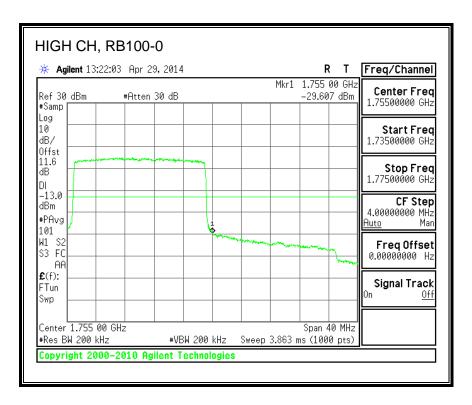
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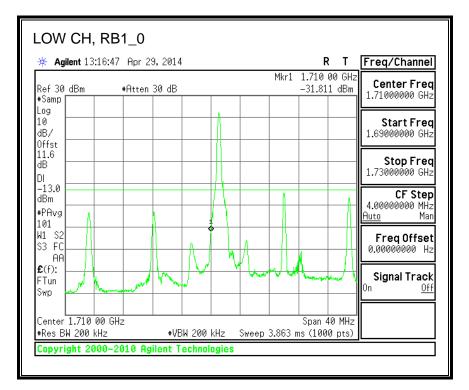
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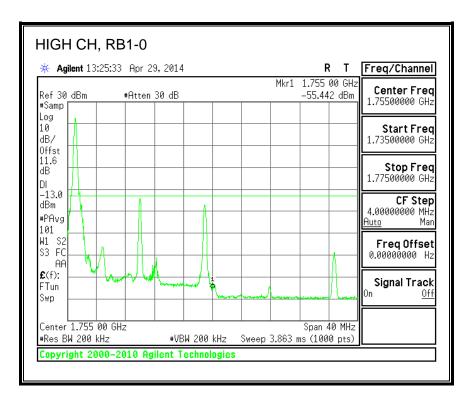




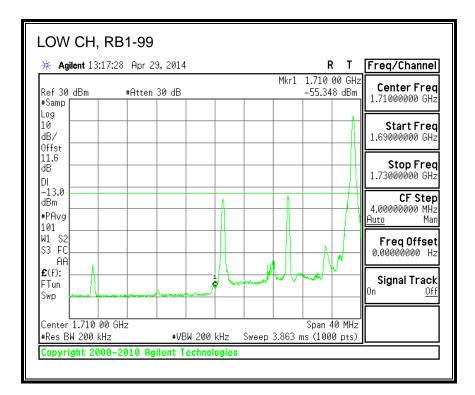
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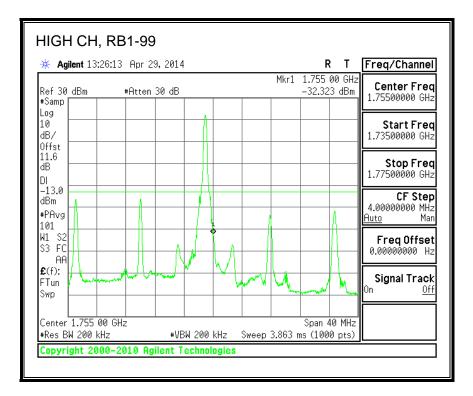
16QAM, (20.0 MHz BAND WIDTH)



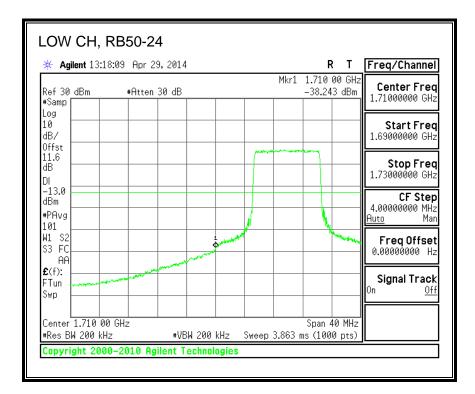


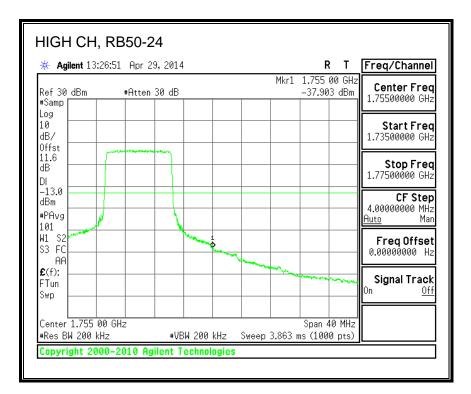
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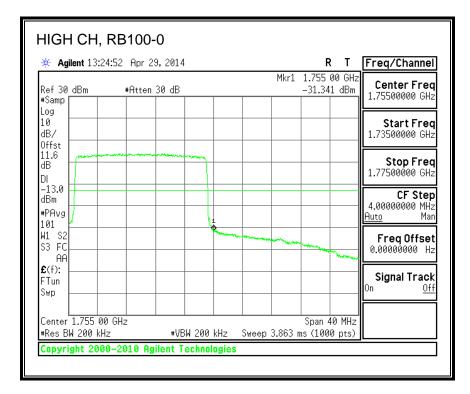
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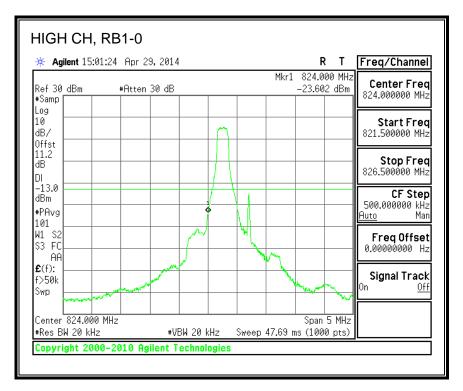
🔆 Agile	ent 13:16:00	/ Hpr Z	0,2014				Mbe1		₹ T 00 GHz	Freq/Channel
Ref 30 (#Samp [dBm	#Atten	30 dB						10 dBm	Center Freq 1.71000000 GHz
Log 10 dB/ Offst										Start Freq 1.69000000 GHz
11.6 dB DI -13.0										Stop Freq 1.73000000 GHz
dBm #PAvg 101										CF Step 4.00000000 MHz <u>Auto</u> Man
W1 S2 S3 FC AA £(f):	****			*****						Freq Offset 0.00000000 Hz
FTun Swp										Signal Track ^{On <u>Off</u>}
	L.710 00 GH 200 kHz	łz		W 200	LU-	Sucor	2062.	 Span 4 ns (100	40 MHz	

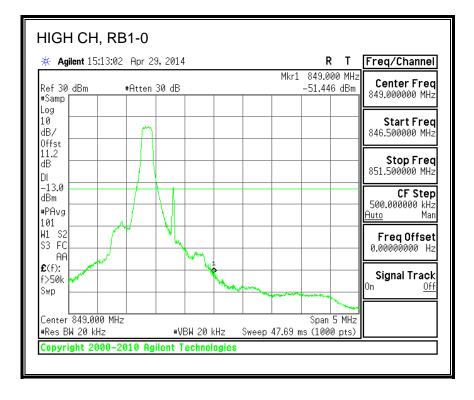


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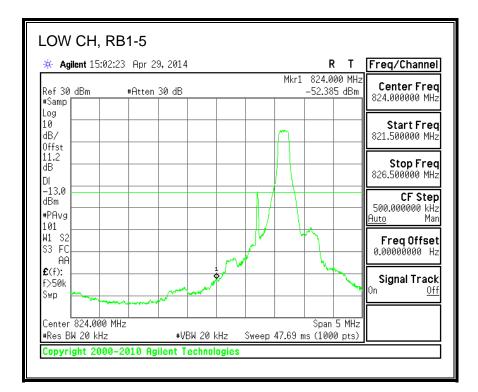
8.2.3. LTE BAND 5 BANDEDGE

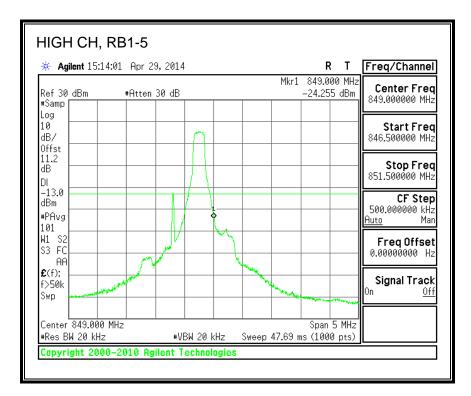
QPSK, (1.4 MHz BAND WIDTH)



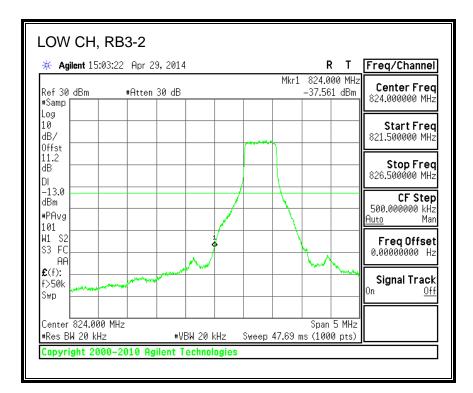


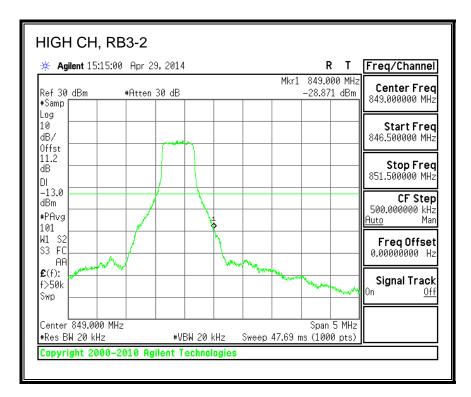
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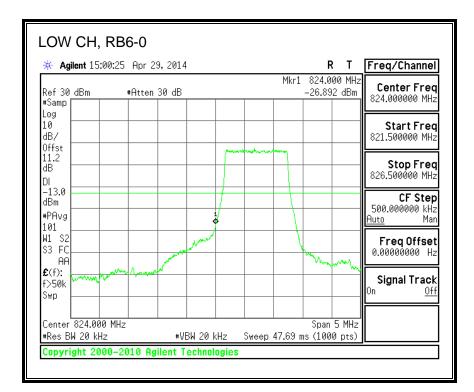


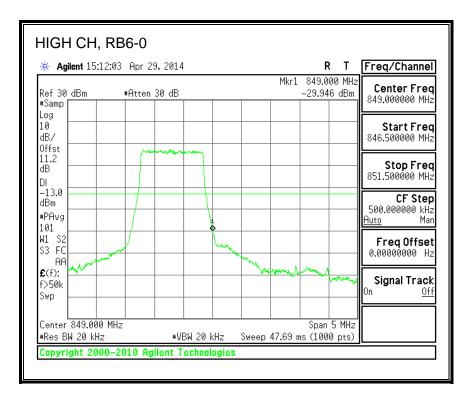
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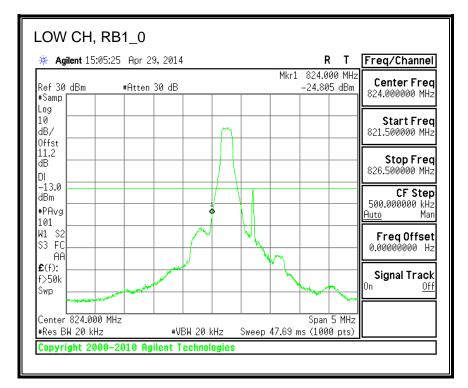
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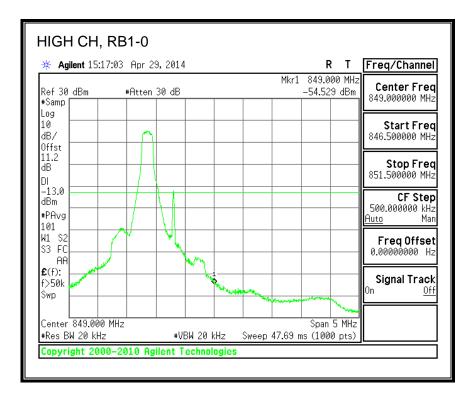




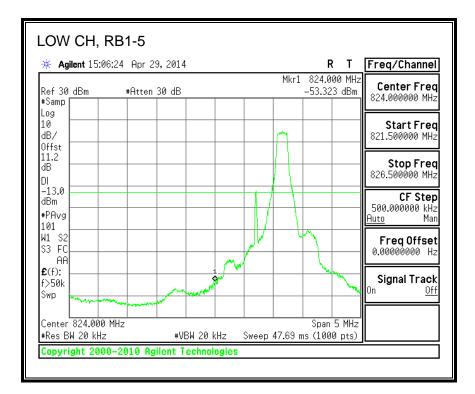
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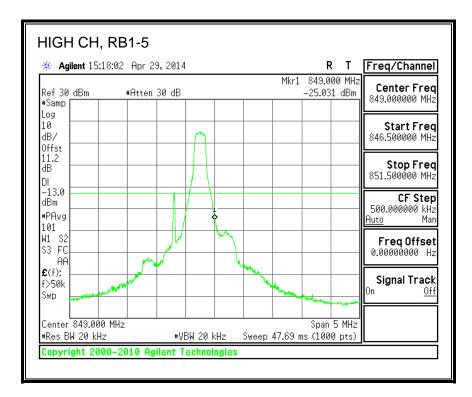
16QAM, (1.4 MHz BAND WIDTH)



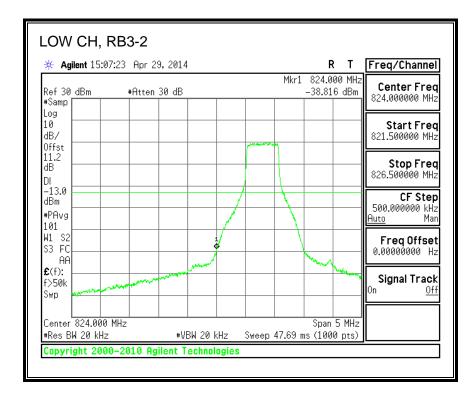


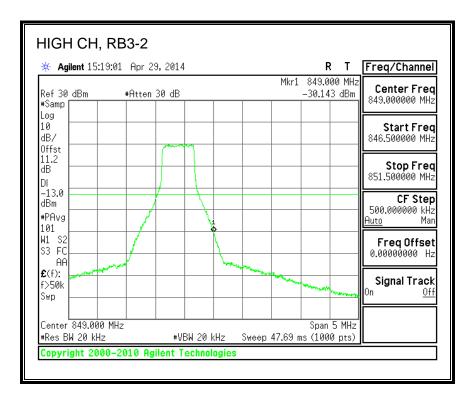
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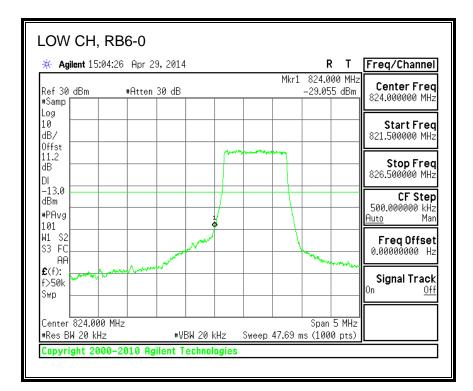


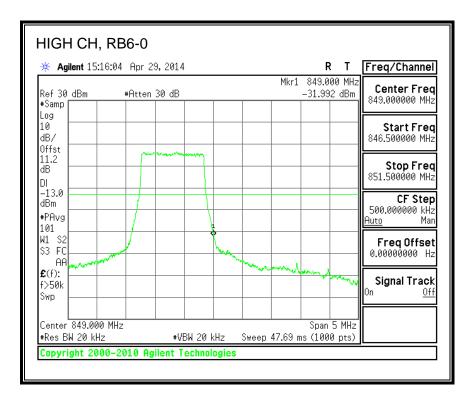
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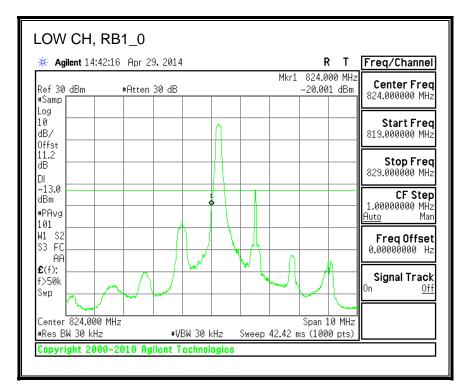
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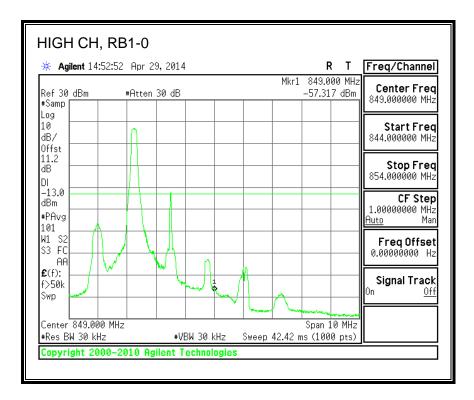




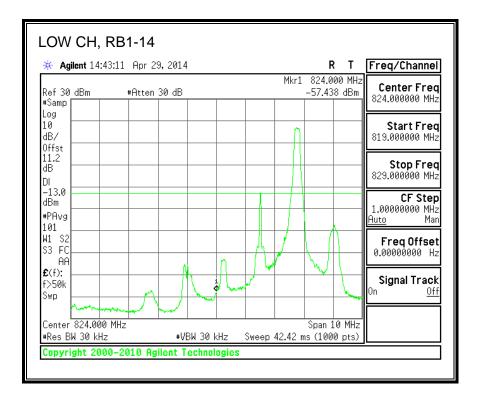
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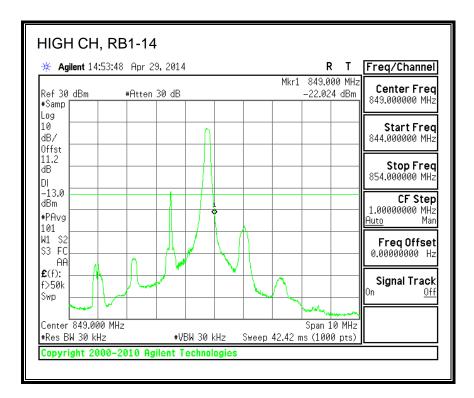
QPSK, (3.0 MHz BAND WIDTH)



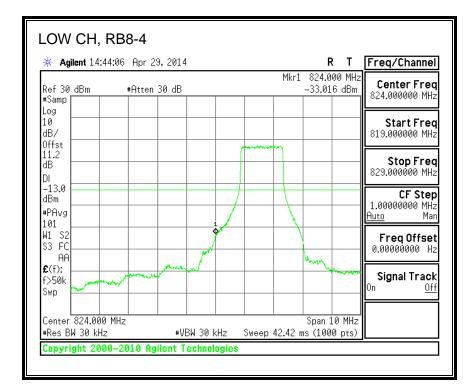


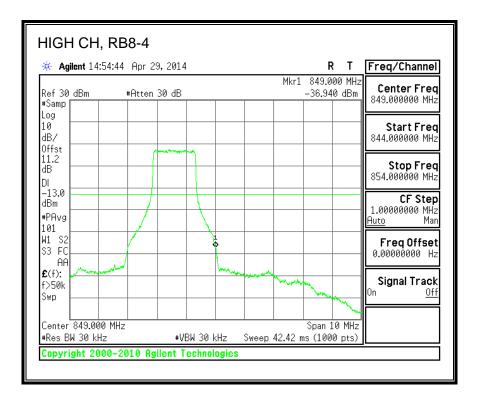
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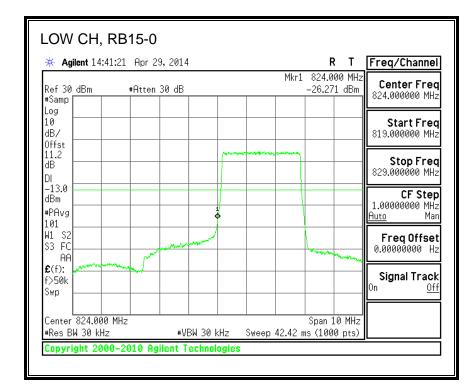


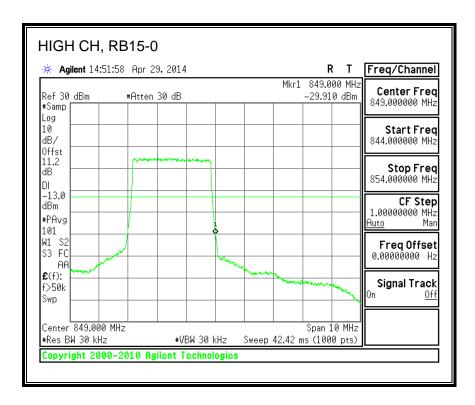
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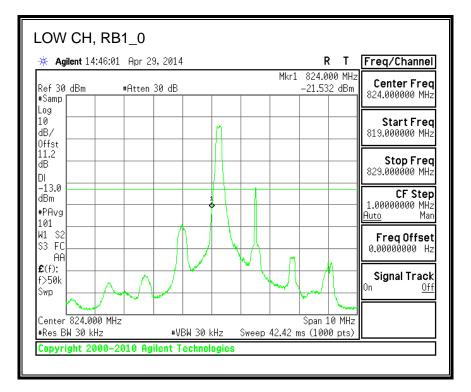
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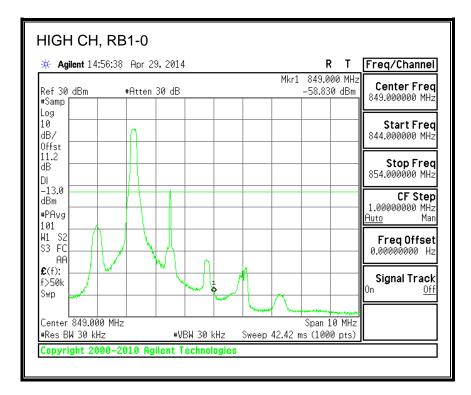




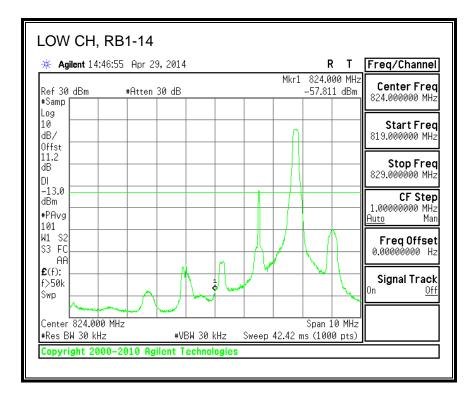
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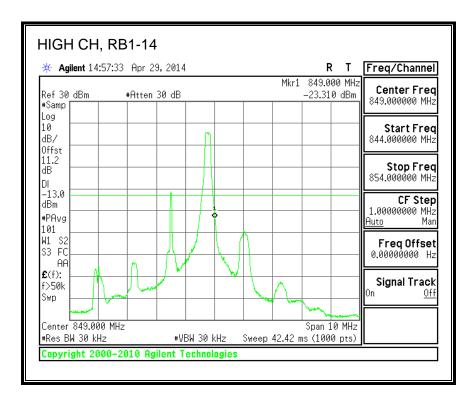
16QAM, (3.0 MHz BAND WIDTH)



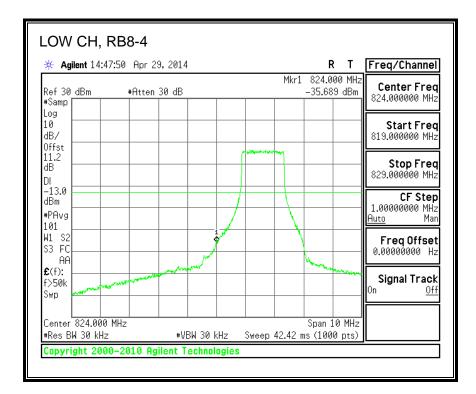


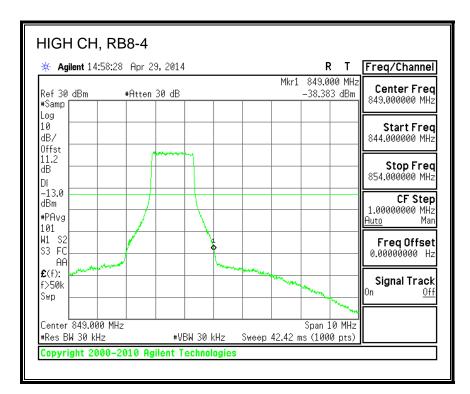
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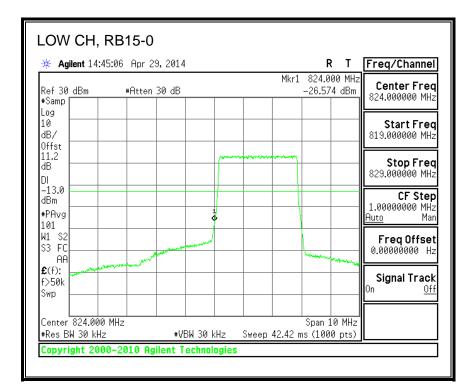


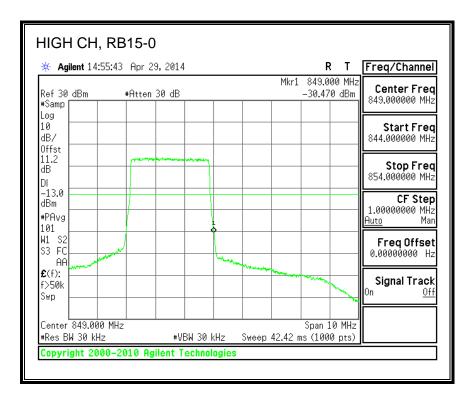
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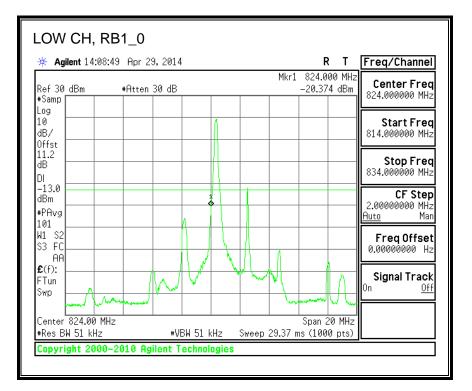
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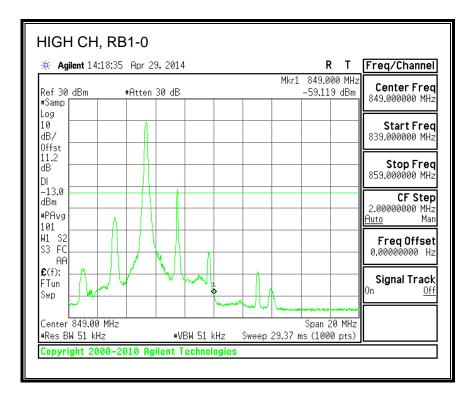




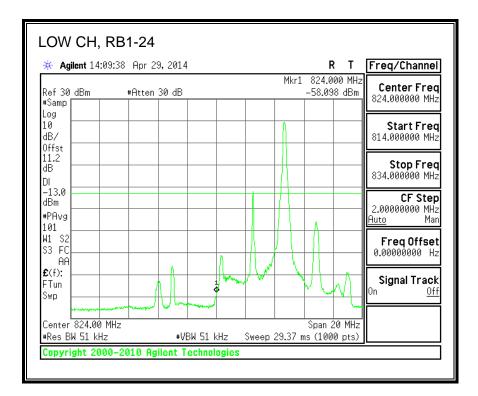
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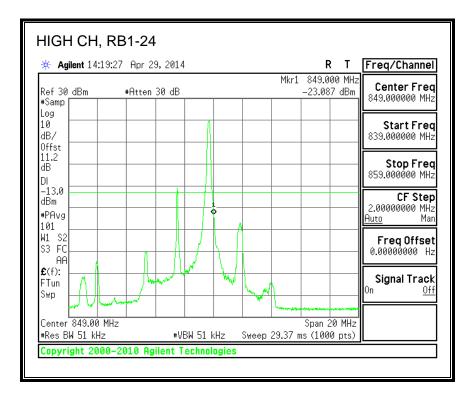
QPSK, (5.0 MHz BAND WIDTH)



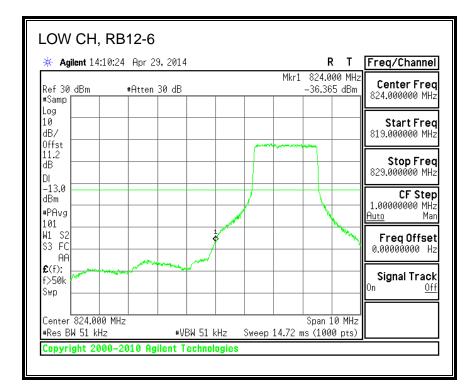


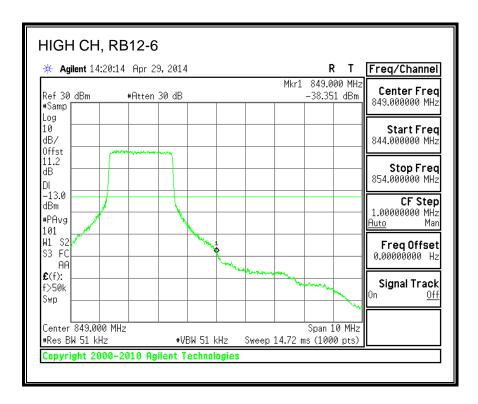
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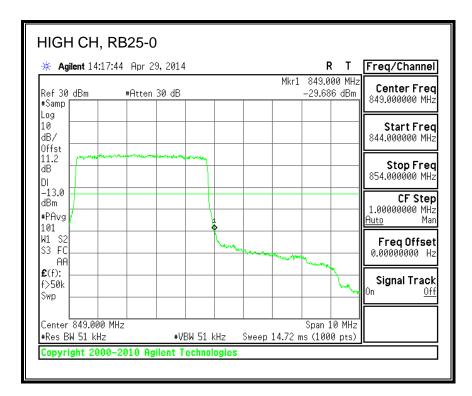
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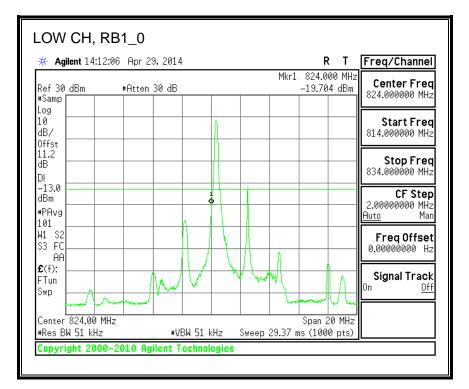
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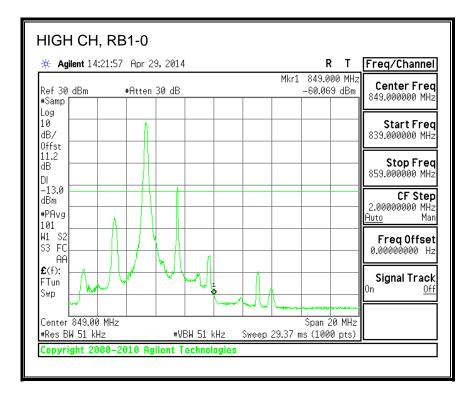
Agilent 14:07:4	47 Apr 29,201	.4		R		Freq/Channe
Ref 30 dBm #Samp	#Atten 30 dE	}	M	lkr1 824.000 -27.300		Center Fre 824.000000 MH
Log 10						Chart Fra
dB/						Start Free 819.000000 MH
Offst 11.2 dB					-	Stop Free
DI						829.000000 MH
-13.0 dBm						CF Stej 1.0000000 MH
#PAvg 101		4 4				<u>Auto</u> Ma
W1 S2 S3 FC	www.then.	- Marine -				Freq Offse 0.00000000 H
AA €(f):	and the second states of the s					0
f>50k Swp						Signal Trac l On <u>Of</u>
Center 824.000 M #Res BW 51 kHz		VBW 51 kHz	Swoon 14	Span 10 72 ms (1000		



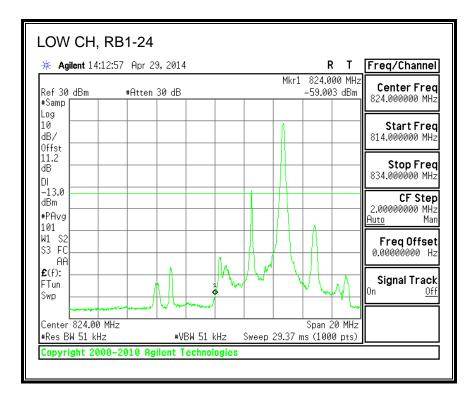
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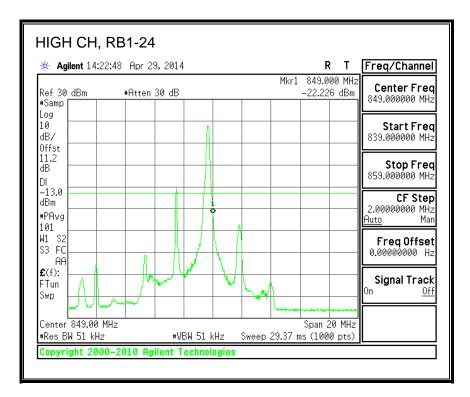
16QAM, (5.0 MHz BAND WIDTH)



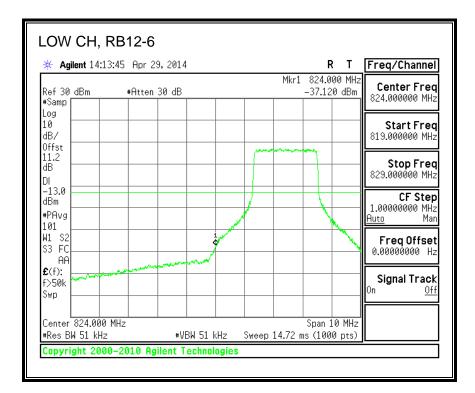


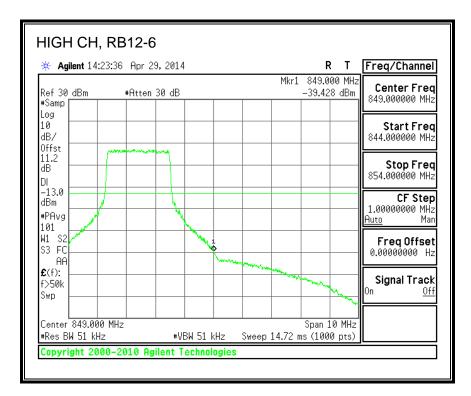
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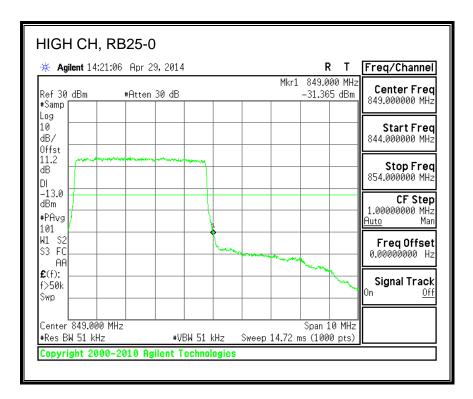
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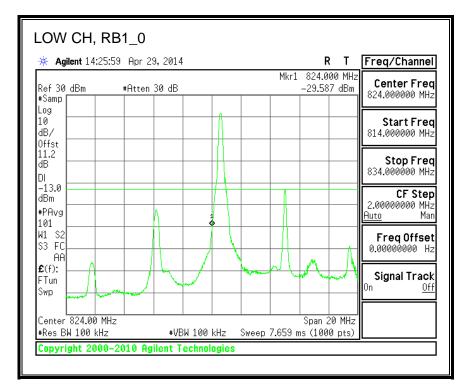
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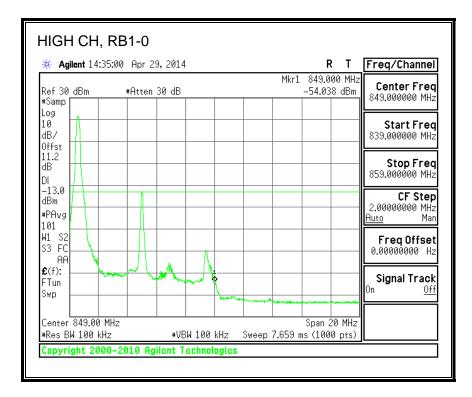
* Agilent 14:11:	15 Apr 29, 20	14		RT	Freq/Channe
Ref 30 dBm	#Atten 30 dE	3	Mkr	1 824.000 MH -28.478 dBm	II Contor From
#Samp Log					
10 dB/					Start Free 819.000000 MH
Offst 11.2 dB					Stop Free
DI					829.000000 MH
-13.0 dBm					CF Ster 1.00000000 MH
#PAvg 101					<u>Auto</u> Ma
W1 S2 S3 FC AA					Freq Offse 0.00000000 H
£ (f):					
f>50k Swp					Signal Tracl
Center 824.000 M #Res BW 51 kHz			Sweep 14.72	Span 10 MHz	



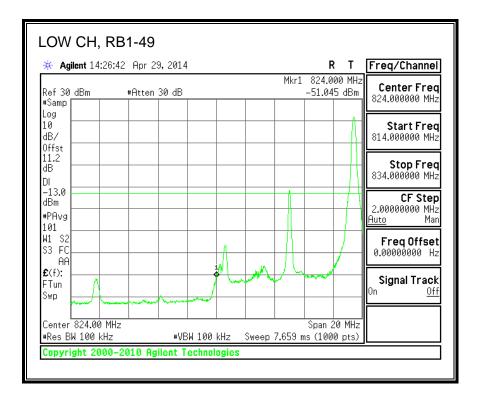
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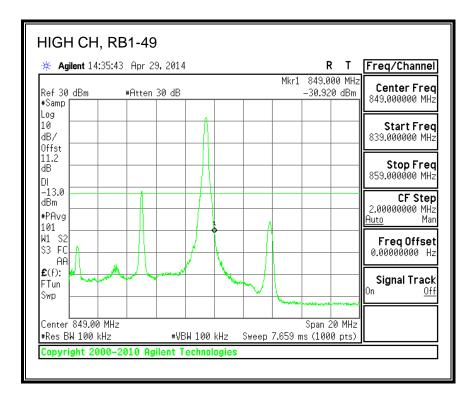
QPSK, (10.0 MHz BAND WIDTH)



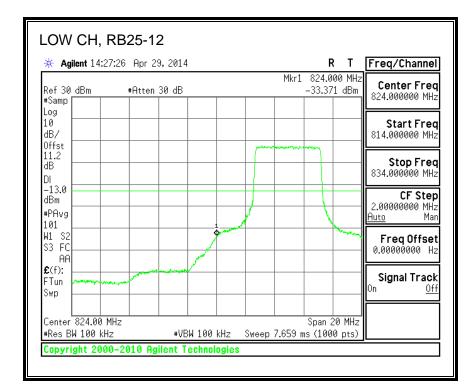


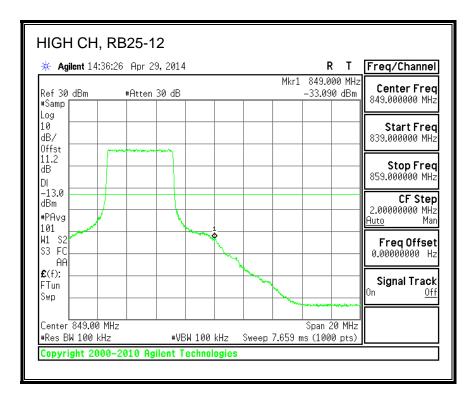
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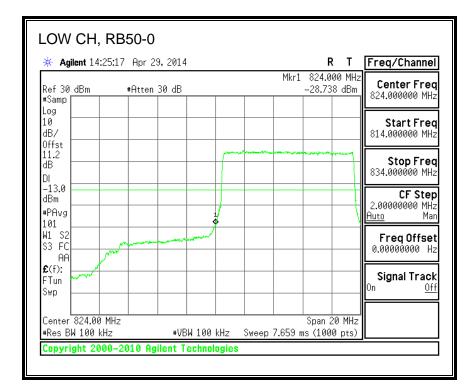


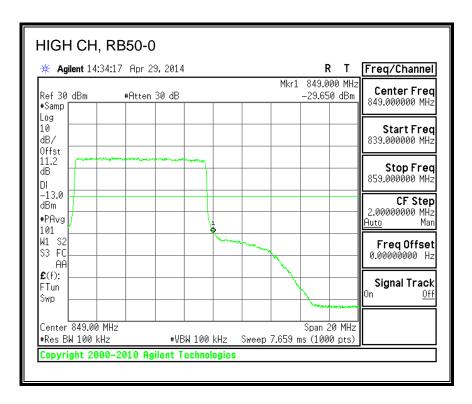
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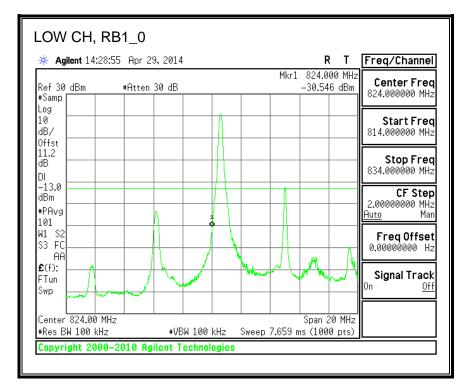
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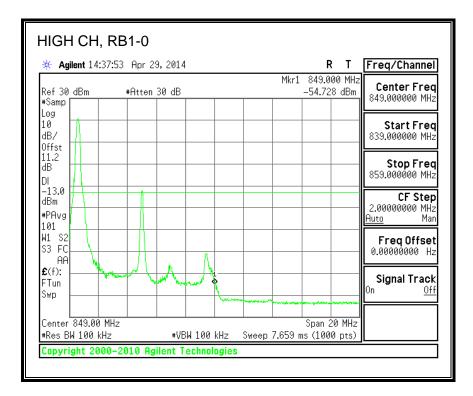




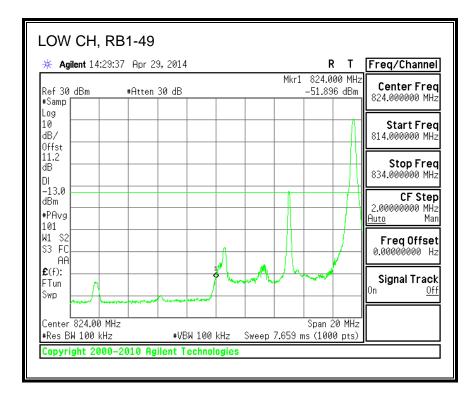
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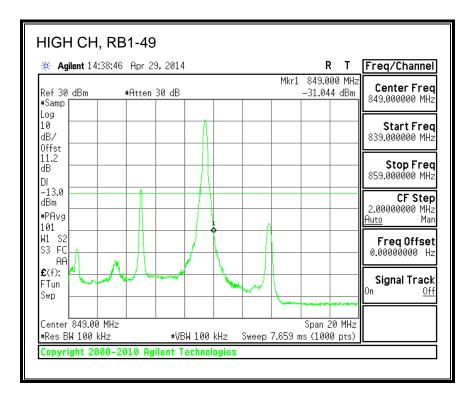
16QAM, (10.0 MHz BAND WIDTH)



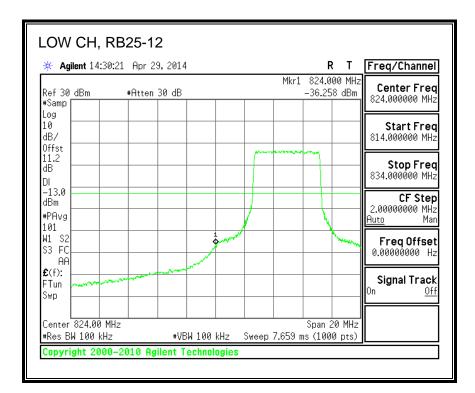


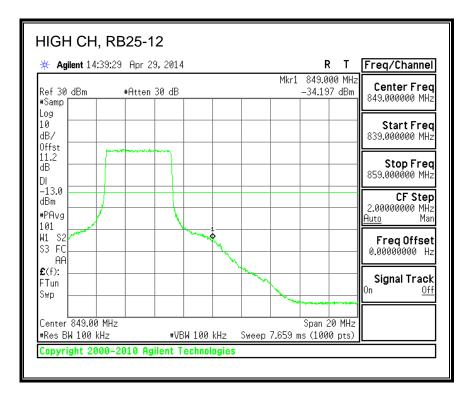
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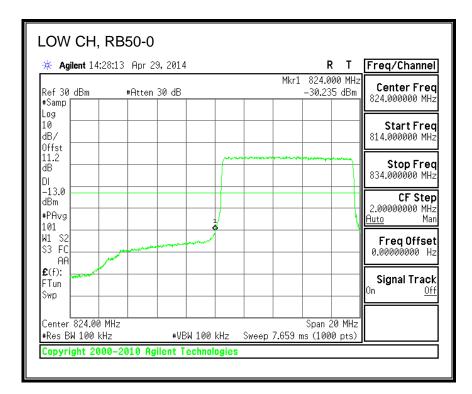


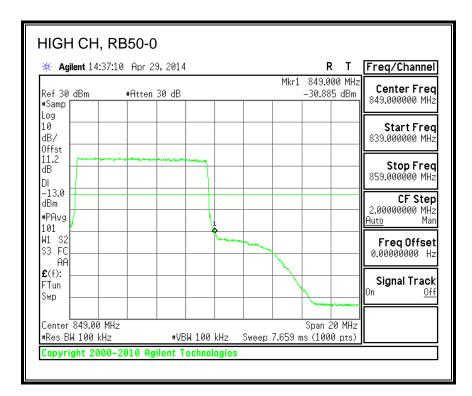
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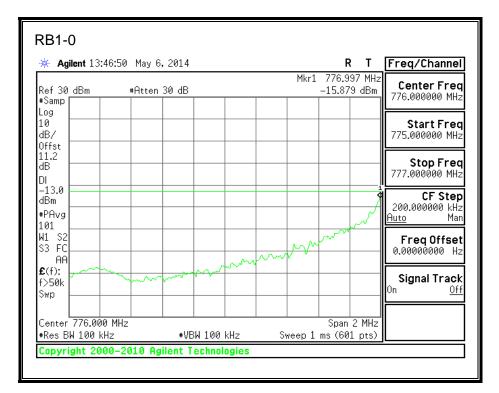


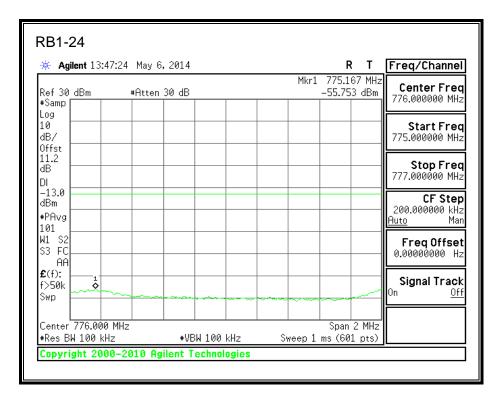


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8.2.4. LTE BAND 13 BANDEDGE

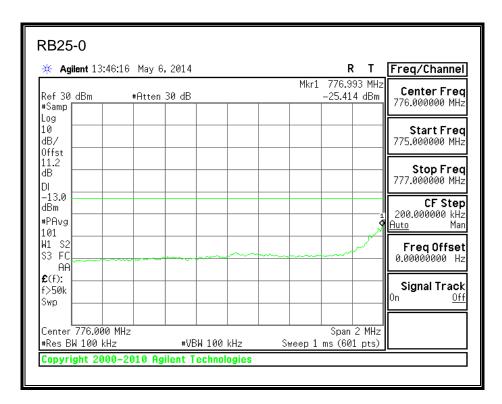
QPSK, 779.5 MHz, 775 - 777MHz, (5.0MHz Bandwidth)





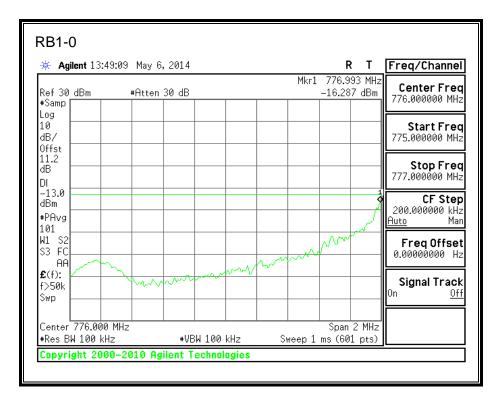
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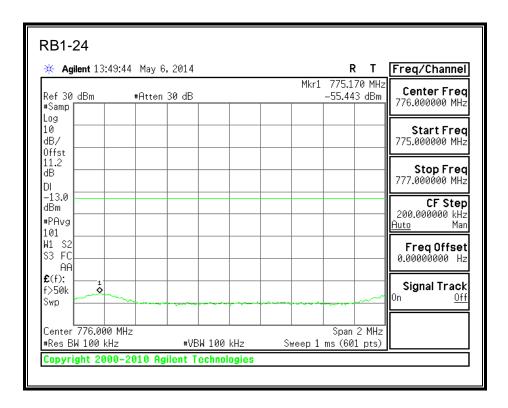
Agilent 13:47:5	i8 May 6,2014			RT	Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB		Mkr1	776.970 MHz -34.200 dBm	Center Fred 776.000000 MHz
Log 10					Start Fred
dB/ Offst					775.000000 MHz
11.2 dB					Stop Frec 777.000000 MHz
DI -13.0 dBm					CF Step
#PAvg 101					200.000000 kHz <u>Auto</u> Mar
W1 S2 S3 FC				¹	Freq Offset 0.00000000 Hz
£(f): f>50k					Signal Track
Swp					0n <u>0ff</u>
Center 776.000 Mł #Res BW 100 kHz				Span 2 MHz ms (601 pts)	



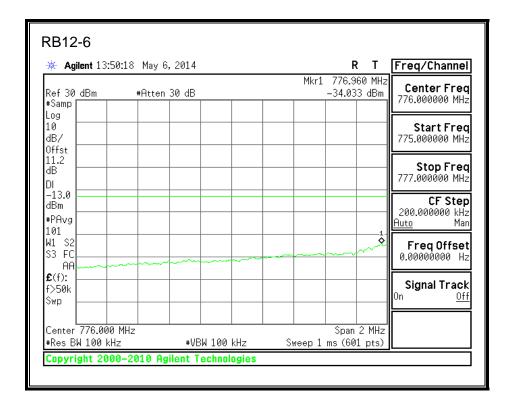
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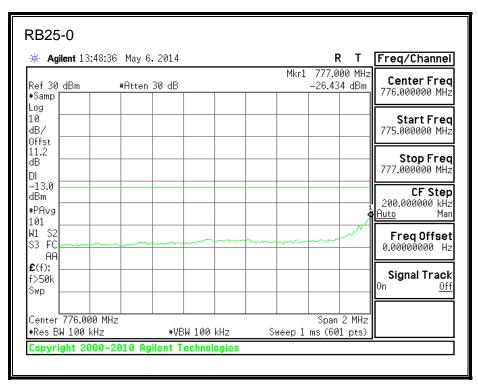
16QAM, 779.5MHz, 775 - 777MHz, (5MHz Bandwidth)





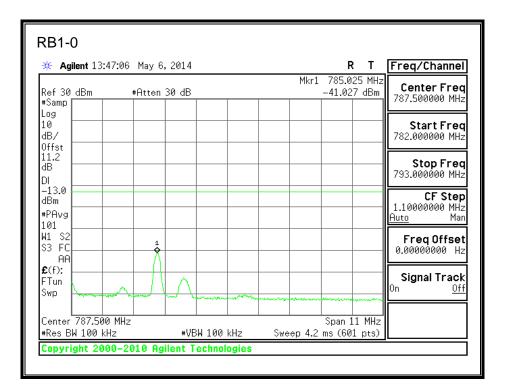
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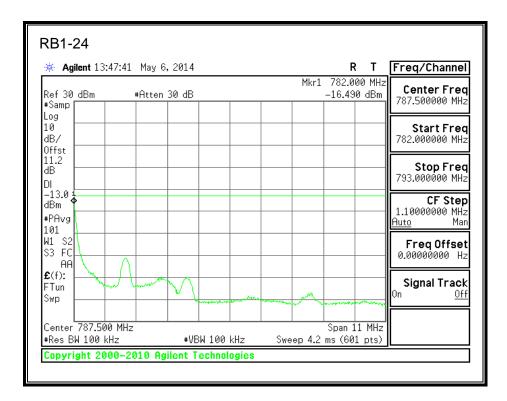




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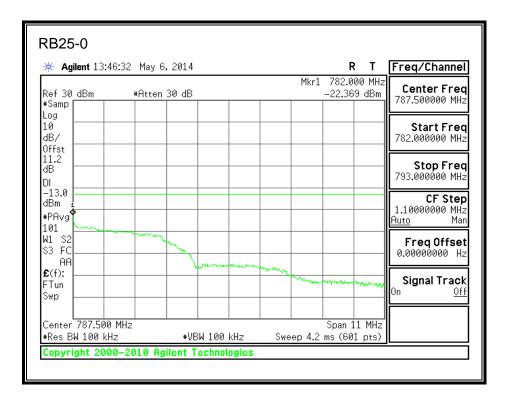
QPSK, 779.5MHz, 13, 782 - 793MHz, (5MHz Bandwidth)





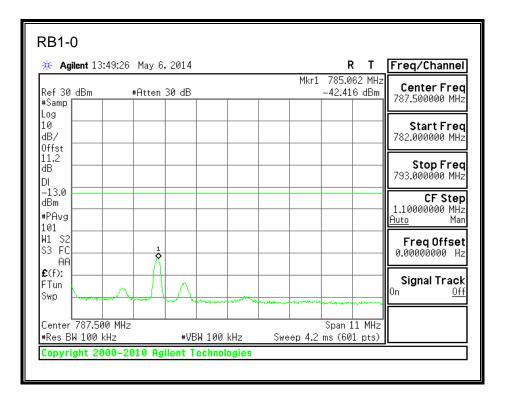
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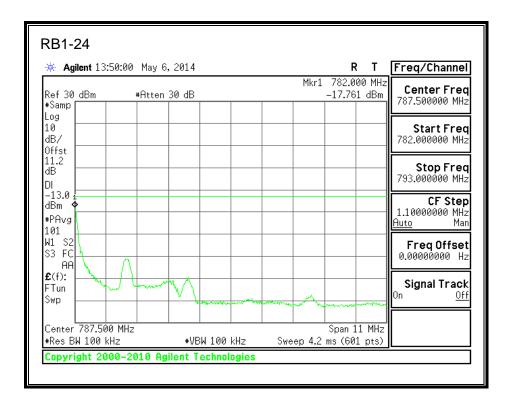
🔆 Agilent 13:48:14	May 6, 2014			RT	Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB		Mkr1	782.037 MI -29.117 dB	Ell Contor Fron
Log 10 dB/					Start Fred 782.000000 MHz
0ffst 11.2 dB DI					- Stop Fred 793.000000 MHz
-13.0 dBm #PAvg1					CF Step 1.10000000 MHz Auto Mar
101 W1 S2 S3 FC AA					Freq Offset
£(f): FTun Swp	And man	mana			Signal Track
Center 787.500 MHz #Res BW 100 kHz		 3W 100 kHz	Sween 4.2	Span 11 MH ms (601 pts	



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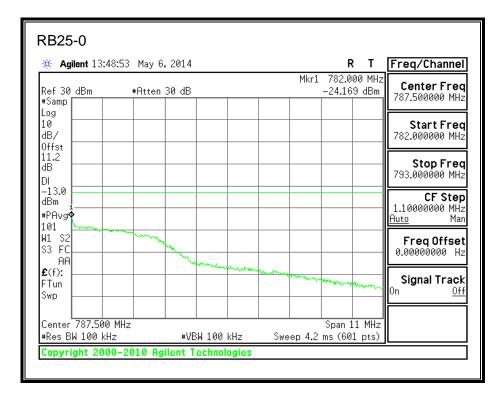
16QAM, 779.5MHz, 783 - 793MHz, (5MHz Bandwidth)





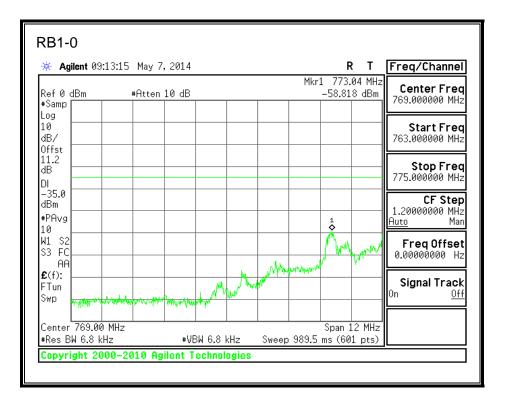
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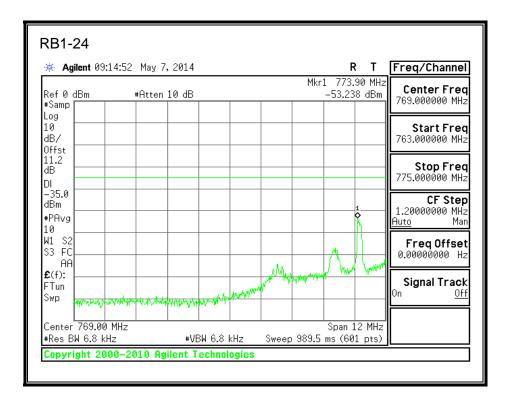
🔆 Agilent 13:50	:35 May 6,2014			R	Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB		Mkr1	782.000 M -29.528 dE	Contor Fron
Log 10 dB/ 0ffst					Start Fred 782.000000 MHz
11.2 dB DI					Stop Frec 793.000000 MHz
-13.0 dBm #PAvg ₁ 101 �					CF Step 1.10000000 MHz <u>Auto</u> Mar
W1 S2 M S3 FC AA	~~~				Freq Offset 0.00000000 Hz
£(f): FTun Swp		an and the second		A warman	Signal Track
Center 787.500 #Res BW 100 kHz		W 100 kHz	Sween 4.2	Span 11 M ms (601 pt	



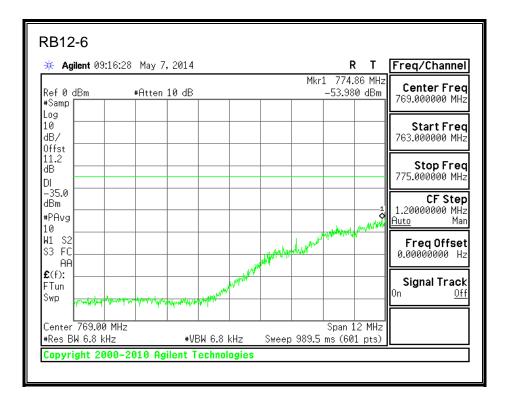
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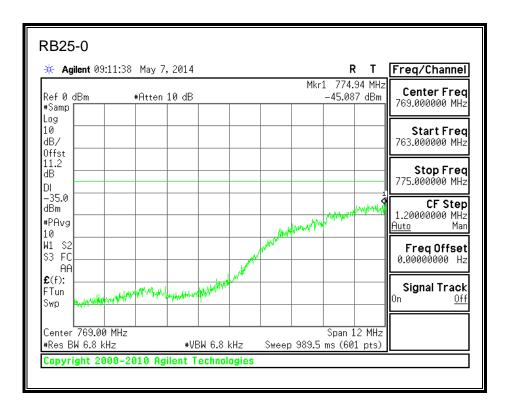
QPSK, 779.5MHz, 763 - 775MHz, (5MHz Bandwidth)





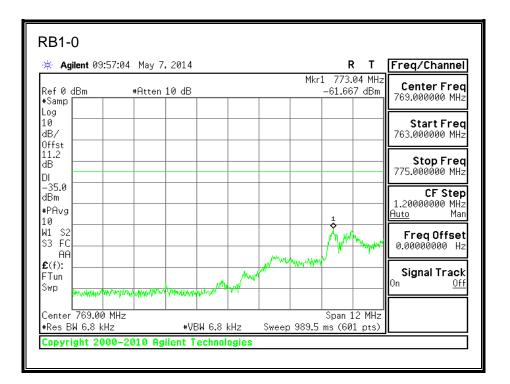
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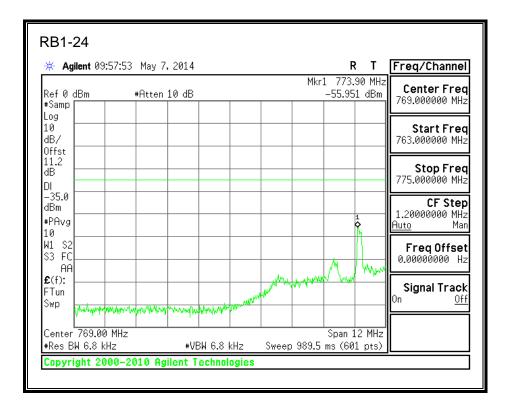




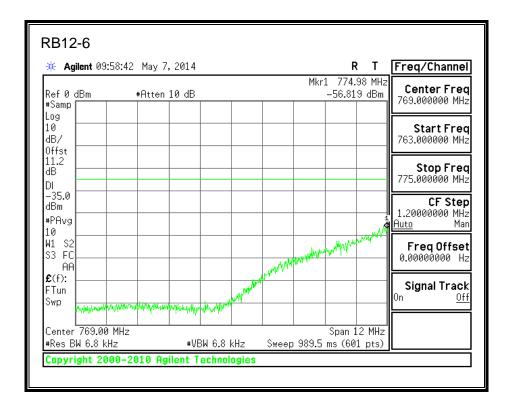
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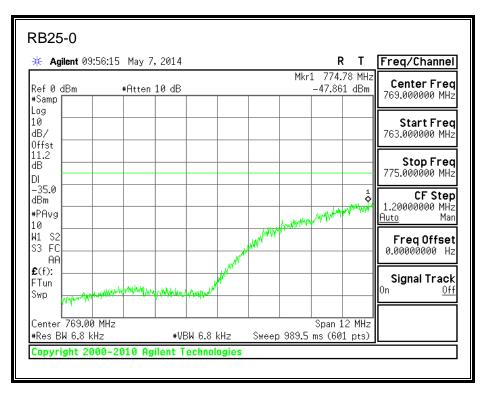
16QAM, 779.5MHz, 763-775MHz, (5MHz Bandwidth)





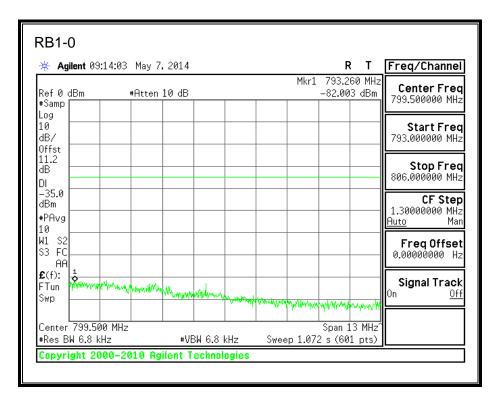
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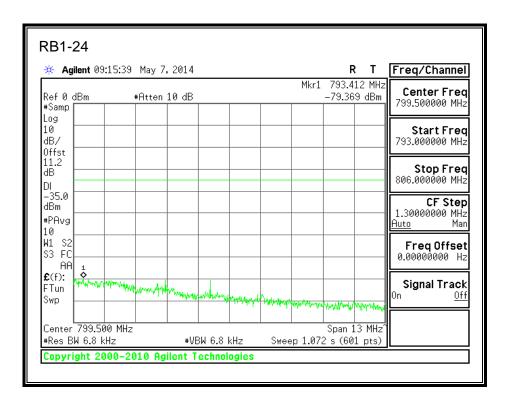




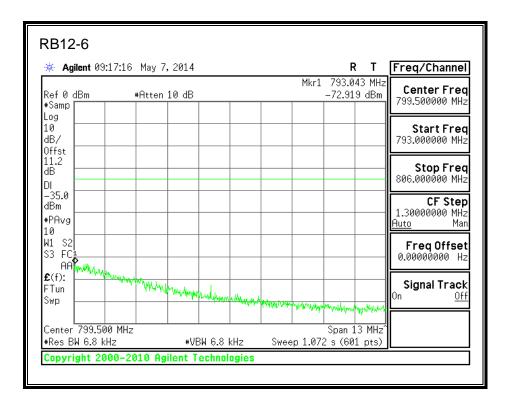
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UL VERIFICATION SERVICES INC. FOR
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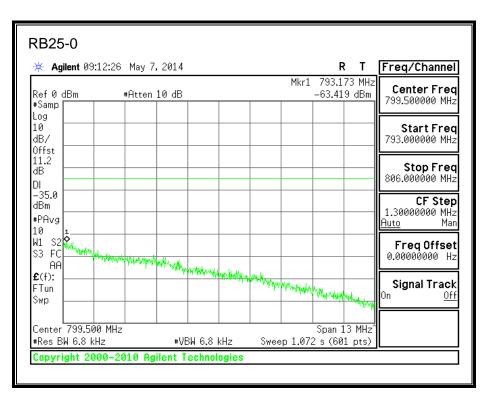
QPSK, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)





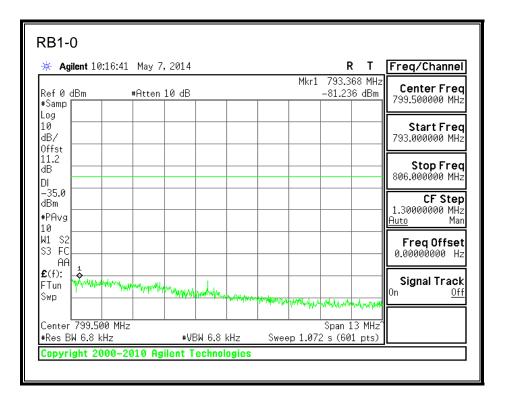
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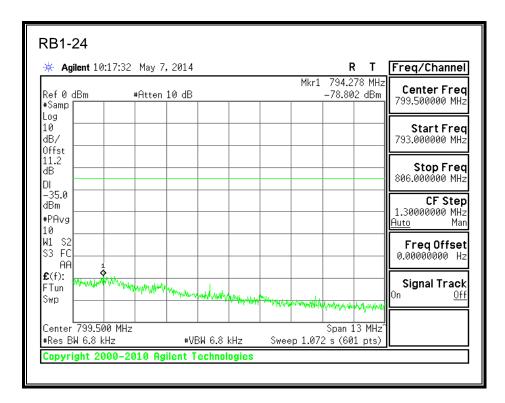




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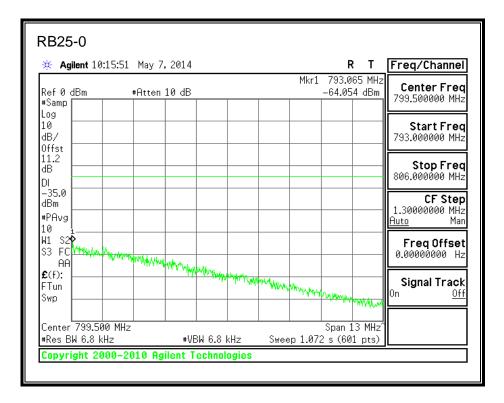
16QAM, 779.5MHz, 793 - 806MHz, (5MHz Bandwidth)





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🔆 Agilent	10:18:23	May 7,	2014					R	T	Freq/Channel
Ref0 dBm ≢Samp		#Atten 1	0 dB			1		793.02 -76.250		Center Fred 799.500000 MHz
Log 10										Start Fred
dB/ Offst										793.000000 MHz
11.2 dB										Stop Fred
DI	_									806.000000 MHz
dBm #PAva										CF Step 1.30000000 MHz
10										<u>Auto</u> Mar
W1 S2 S3 FC AA\$										Freq Offset 0.00000000 Hz
f(f):	44444444444444444444444444444444444444	Allert		1						Signal Track
Swp		" TTOTYK-YYM	~~~www.	June	n ir wyy t	1. May Mar	hatelate	al alter a series	-alt day	0n <u>Of</u>
Center 799								Span 13	2 MU-7	
#Res BW 6.			#VB	W 6.8 I	кНz	Swee	en 1.072	2 s (601		

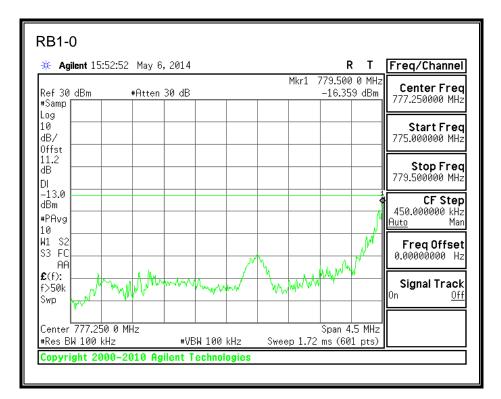


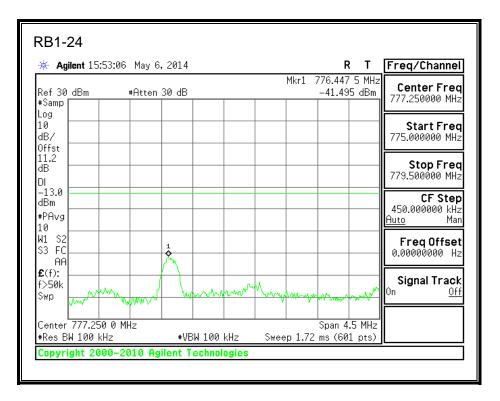
UL VERIFICATION SERVICES INC. FORM 47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FA This report shall not be reproduced except in full, without the written approval of UL

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FORM NO: CCSUP4701J FAX: (510) 661-0888

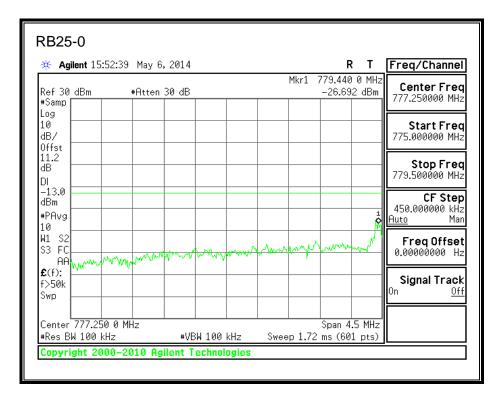
QPSK, 782MHz, 775 - 779.5MHz, (5MHz Bandwidth)





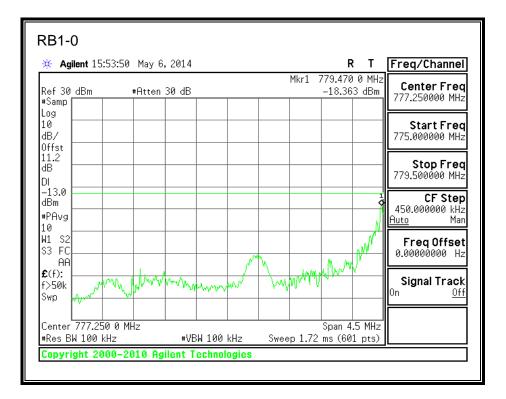
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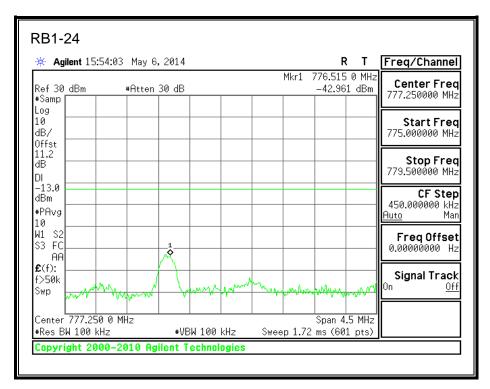
🔆 Agilent 15:53:19	May 6, 2014			R	Т	Freq/Channel
Ref 30 dBm	#Atten 30 dB		Mkr1	779.462 34.154		Center Freq 777.250000 MHz
#Samp Log						777.230000 1112
10 dB/ Offst						Start Freq 775.000000 MHz
11.2 dB						Stop Freq 779.500000 MHz
-13.0 dBm #PAvg						CF Step 450.000000 kHz
10				mm	1	<u>Auto</u> Mar Freq Offset
S3 FC	mm	wwwwww	mm			0.00000000 Hz
£(f): f>50k Swp	mark marker and marker and the					Signal Track On <u>Off</u>
Center 777.250 0 M #Res BW 100 kHz		100 kHz	Sweep 1.72	Span 4.5 ms (601		



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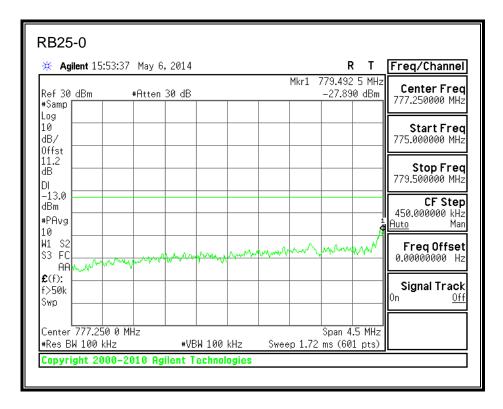
16QAM, 782MHz, 775 - 777MHz, (5MHz Bandwidth)



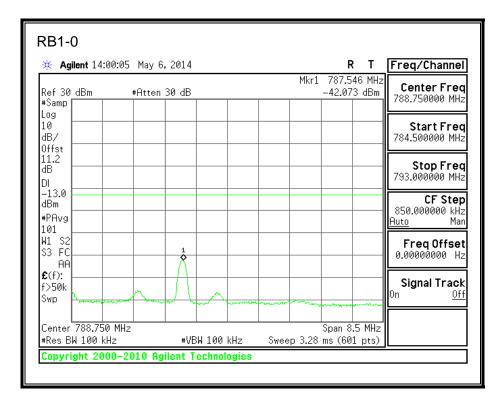


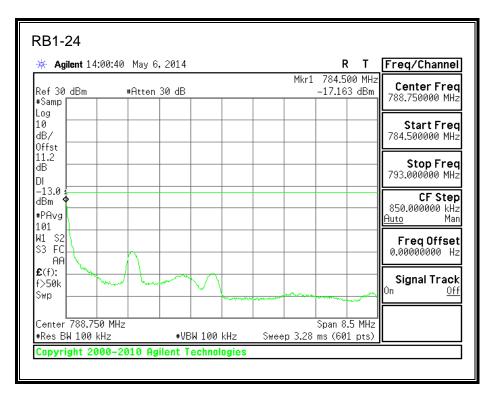
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🔆 Agilent 15:	54:17 May 6	,2014			R		Freq/Channe
Ref 30 dBm #Samp	#Atten	30 dB		Mkr1	779.425 -32.713		Center Fred 777.250000 MHz
Log 10 dB/ Offst							Start Fred 775.000000 MHz
11.2 dB DI							Stop Fred 779.500000 MHz
-13.0 dBm #PAvg 10							CF Step 450.000000 kHz <u>Auto</u> Mar
	Mr.M. Mark		marker	MANA	www	MAR	Freq Offset 0.00000000 Hz
£(f): f>50k Swp	MMMMM	hyperture					Signal Track On <u>Of</u>
Center 777.250 #Res BW 100 kl		#\/BW 10)0 kHz	Sweep 1.7	Span 4. 2 ms (601		



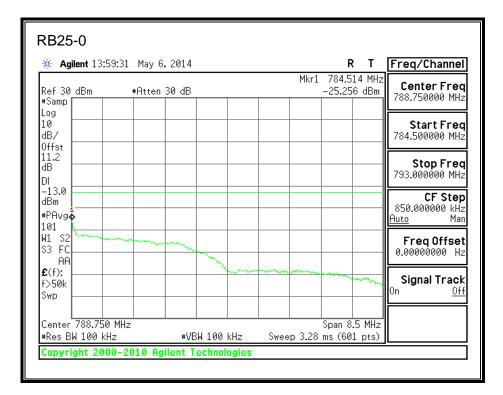
QPSK, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)





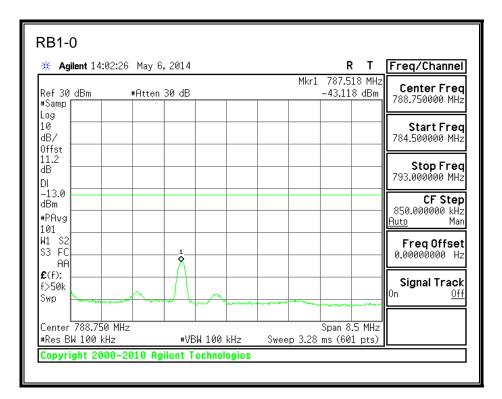
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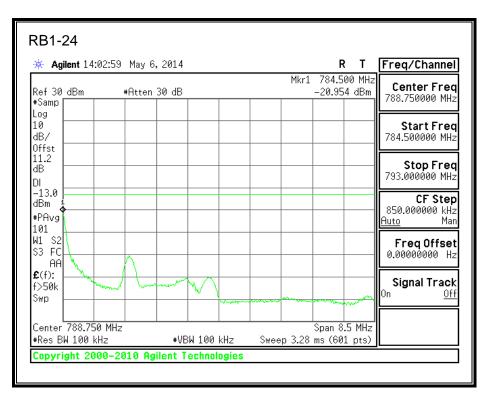
🔆 Agilent 14:01	.:14 May 6, 2014			RT	Freq/Channe
Ref 30 dBm #Samp	#Atten 30 dB		Mkr1	784.500 MH -32.320 dBm	II Contor From
Log 10 dB/ Offst					Start Fred 784.500000 MHz
11.2 dB DI					Stop Fred 793.000000 MHz
-13.0 dBm #PAvg 101 1					CF Step 850.000000 kHz <u>Auto</u> Mar
W1 S2 S3 FC AA	~~~~				Freq Offset
£ (f): f>50k Swp		mary more thank			Signal Track
Center 788.750 #Res BW 100 kHz		↓ 100 kHz	Sween 3.28	Span 8.5 MHz ms (601 pts)	



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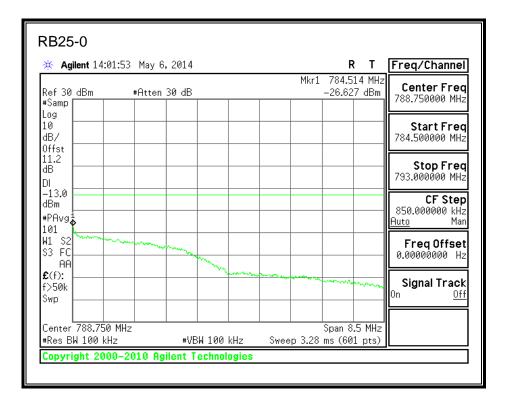
16QAM, 782MHz, 784.5 - 793MHz, (5MHz Bandwidth)





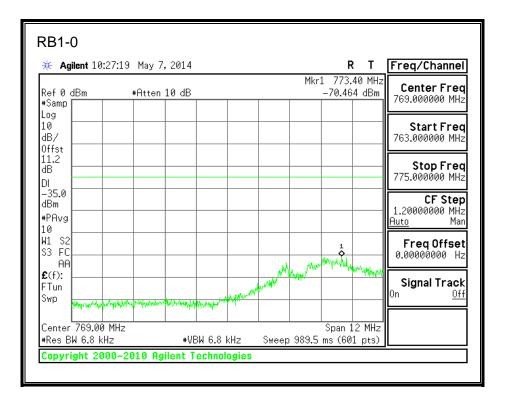
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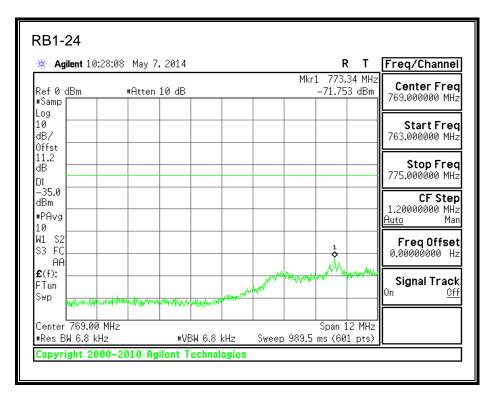
🔆 Agilent 14:0	3:34 May 6, 2014			R	T Freq/Channe
Ref 30 dBm	#Atten 30 dB		Mkr1	784.500 i -32.549 dl	
#Samp Log					
10 dB/					Start Fred 784.500000 MHz
Offst 11.2					Stop Fred
dB DI					793.000000 MHz
-13.0 dBm					CF Step 850.000000 kHz
#PAvg 101 4					Auto Mar
W1 S2					Freq Offset
S3 FC					— 0.00000000 Hz
£(f):	- management				Signal Tracl
f>50k Swp		and marken	mon marine	mar mar	On <u>Of</u>
Center 788.750		1		Span 8.5 M	
#Res BW 100 kH	z #VE	3W 100 kHz	Sweep 3.28	ms (601 pt	ts)



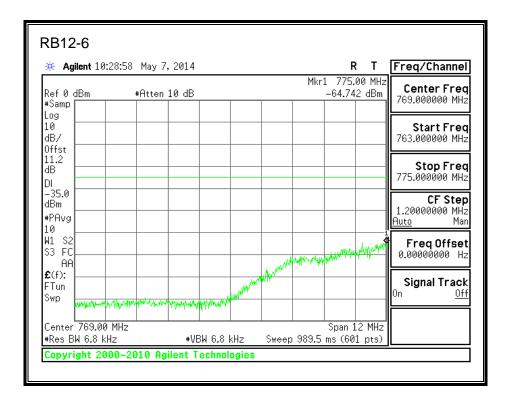
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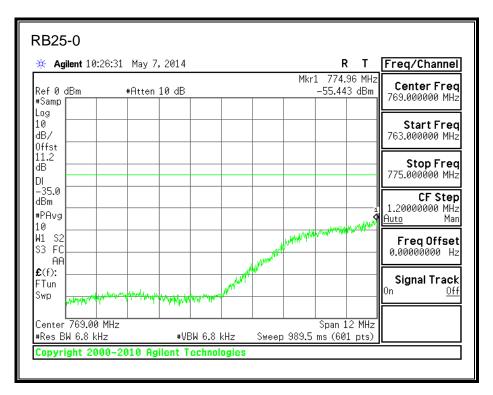
QPSK, 782MHz, 763 - 775MHz, (5MHz Bandwidth)





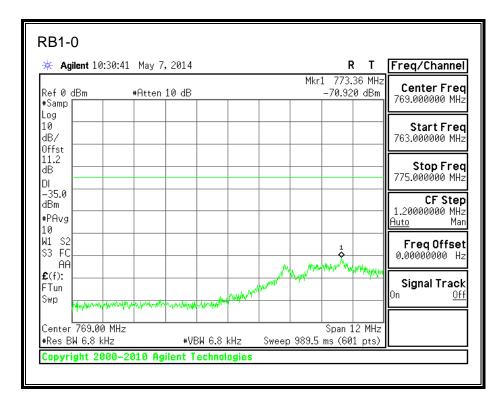
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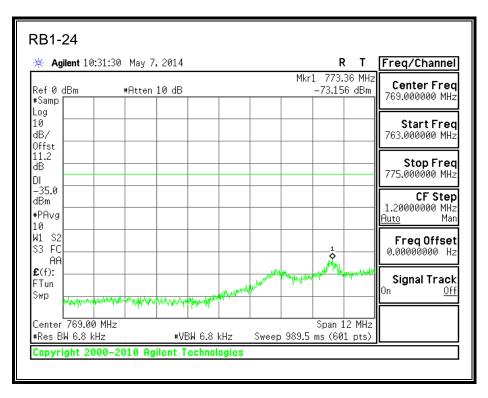




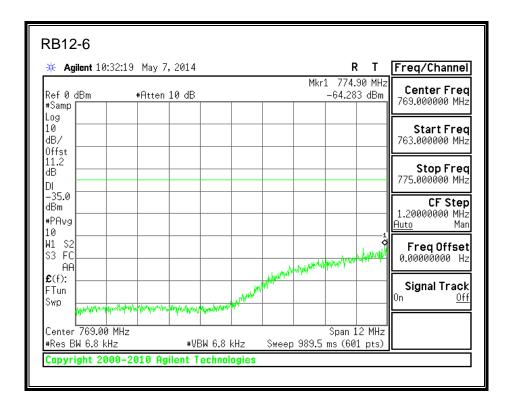
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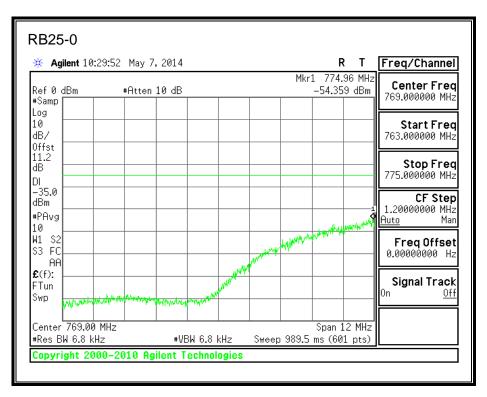
16QAM, 782MHz, 763 - 775MHz, (5MHz Bandwidth)





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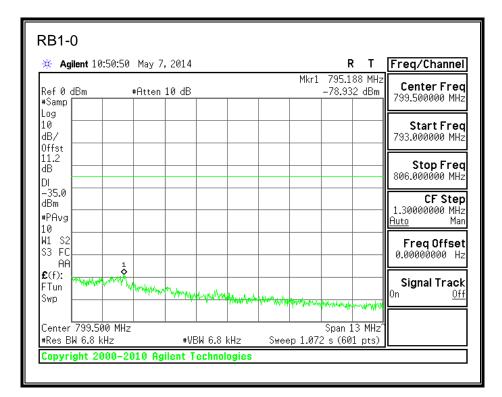


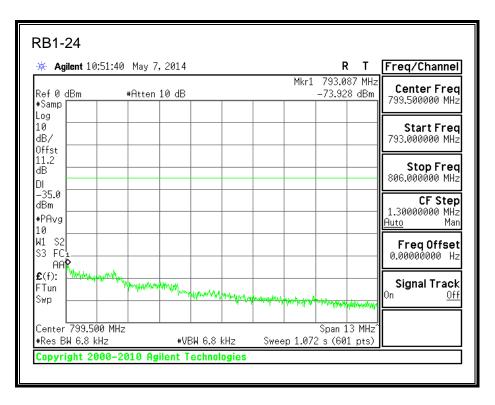
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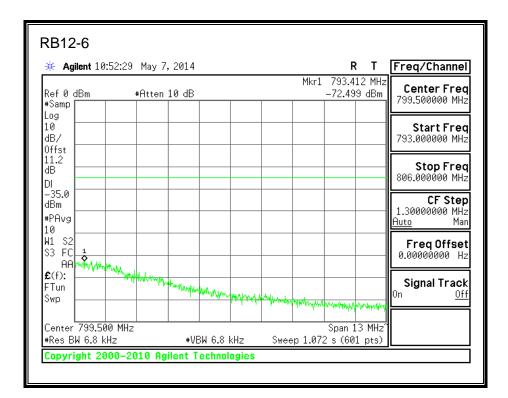
FORM NO: CCSUP4701J FAX: (510) 661-0888

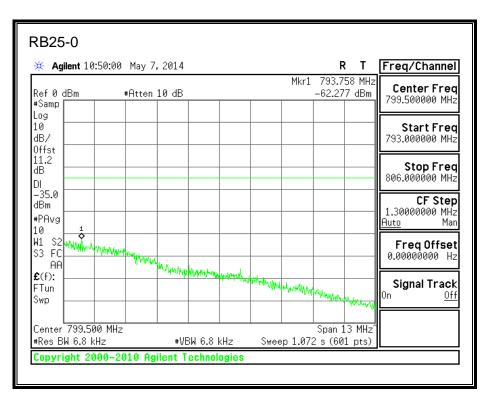
QPSK, 782MHz, 793 - 806MHz, (5MHz Bandwidth)





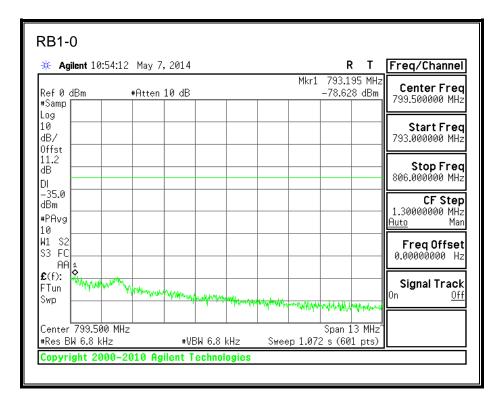
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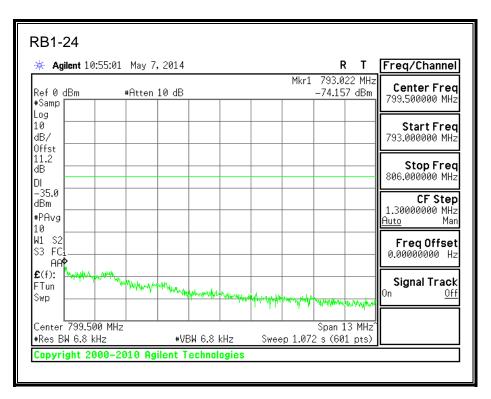




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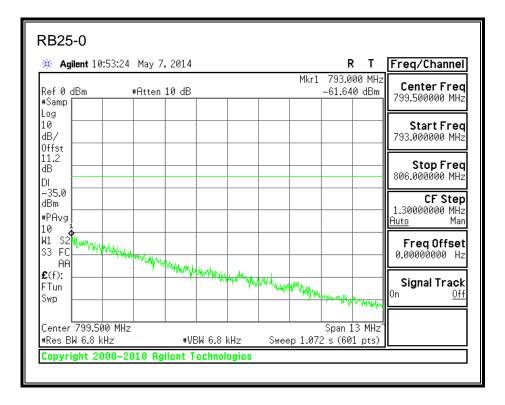
16QAM, 782MHz, 793 - 806MHz, (5MHz Bandwidth)





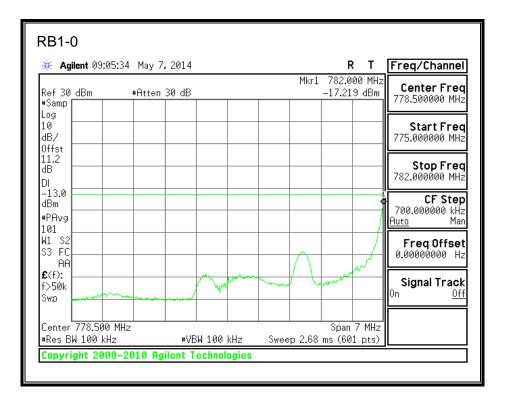
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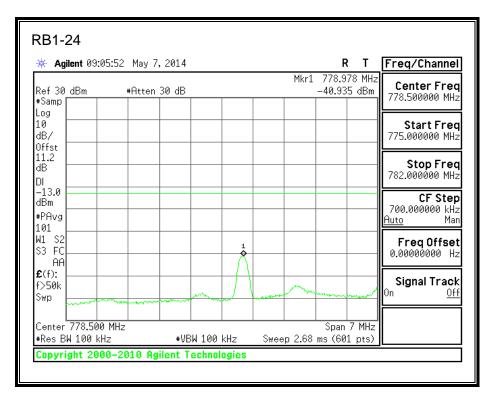
🔆 Agile	nt 10:55:52	May 7,2	:014				R		Freq/Channe
Ref 0 dB	m	#Atten 10	l dB		1	Mkr1	793.19 -73.62	95 MHz 7 dBm	Center Fred 799.500000 MHz
#Samp Log									1001000000000
10 dB/ Offst									Start Fred 793.000000 MHz
11.2 dB									Stop Fred 806.000000 MHz
DI -35.0 dBm									CF Step 1.30000000 MHz
#PAvg 10									<u>Auto</u> Mar
W1 S2									Freq Offset 0.00000000 Hz
£ (f):		Anne							
FTun		and here when he was	approximation and a	مد الداد					Signal Track
Swp —				e de la construcción de la constru La construcción de la construcción d		WWWW	munder where	WARNANA	<u>.</u>
	99.500 MHz						Span 1	2 MU-1	
#Res BW	001000 1111	-	#VBW 6.8				2 s (601	• • • • • •	



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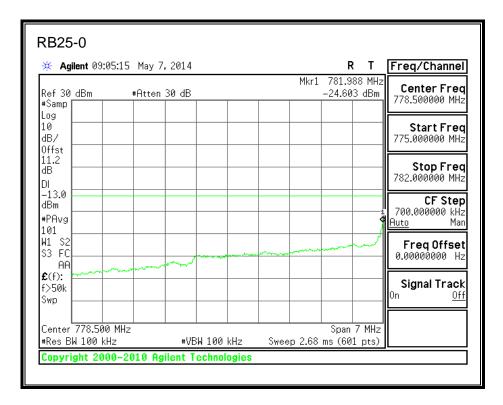
QPSK, 784.5MHz, 775 - 782MHz, (5MHz Bandwidth)





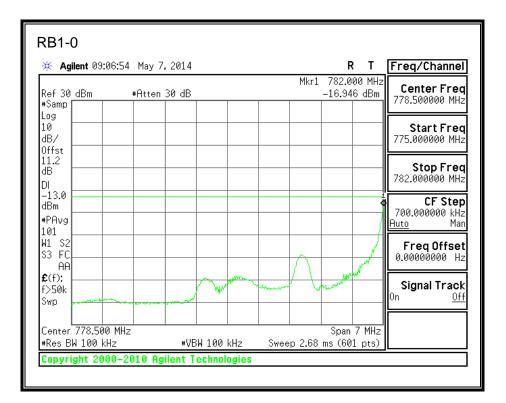
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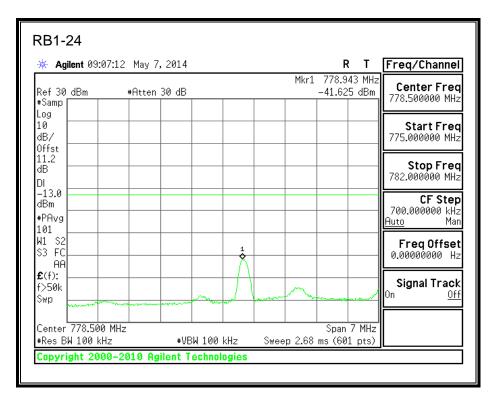
🔆 Agilent 09:06	:11 May 7, 2014			R	Т	Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB			782.000 -32.443		Center Fred 778.500000 MHz
Log 10 dB/ 0ffst						Start Frec 775.000000 MHz
11.2 dB DI						Stop Frec 782.000000 MHz
-13.0 dBm #PAvg 101						CF Step 700.000000 kHz <u>Auto</u> Mar
M1 S2 S3 FC AA				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	Freq Offset 0.00000000 Hz
£(f): f>50k Swp	and the second	And and a second				Signal Track On <u>Of</u> i
Center 778.500 #Res BW 100 kHz		 W 100 kHz	Sweep 2.68	Span 7 ms (601		



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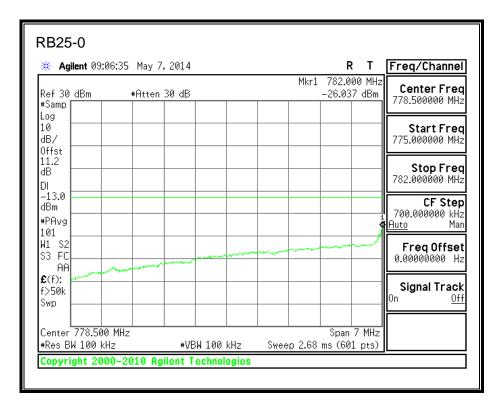
16QAM, 784.5MHz, 775 - 782MHz, (5MHz Bandwidth)





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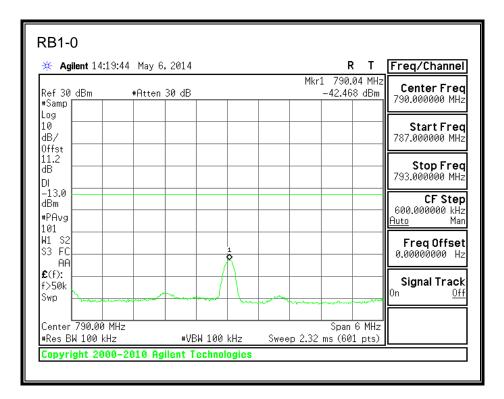
🔆 Agilent 09:0	17:31 May 7, 2014			RT	Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB			782.000 MHz -32.026 dBm	
Log 10 dB/ Offst					Start Fred 775.000000 MHz
11.2 dB DI					Stop Fred 782.000000 MHz
-13.0 dBm #PAvg 101					CF Step 700.000000 kHz <u>Auto</u> Mar
W1 S2 S3 FC					Freq Offset
£(f): f>50k Swp		****			Signal Track
Center 778.500 #Res BW 100 kH		 100 kHz	Sween 2.68	Span 7 MHz ms (601 pts)	

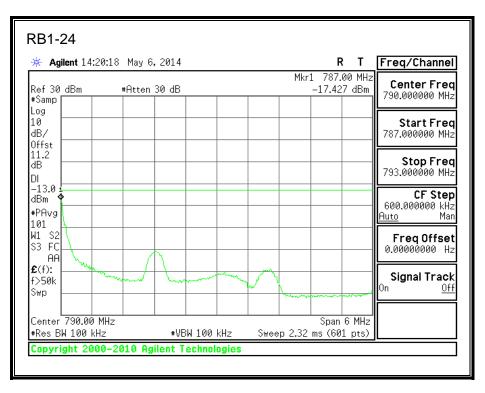


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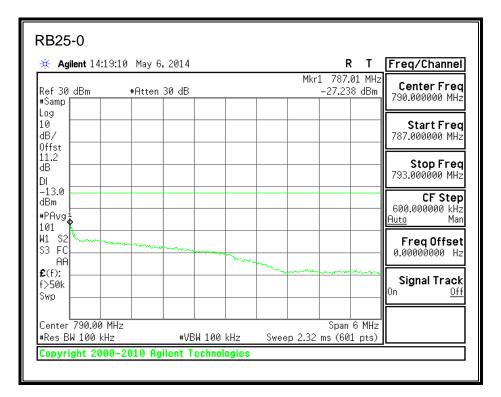
QPSK, 784.5MHz, 787 - 793MHz, (5MHz Bandwidth)





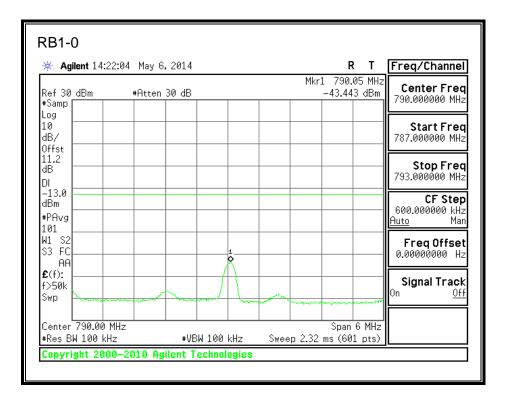
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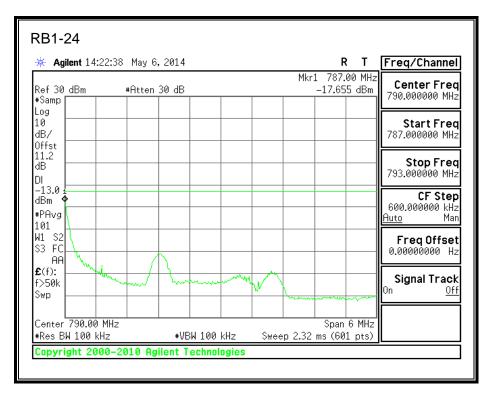
🔆 Agilent 14:20):52 May 6, 2014	R T Freq/Channe
Ref 30 dBm #Samp	#Atten 30 dB	Mkr1 787.01 MHz -33.885 dBm 790.000000 MHz -33.885 dBm
Log 10 dB/		Start Fred 787.00000 MH:
Offst 11.2 dB DI		Stop Free 793.00000 MHz
-13.0 dBm #PAvg 101		CF Ster 600.000000 kH <u>Auto</u> Mai
W1 S2 S3 FC AA		Freq Offse
€(f): f>50k Swp		Signal Track
Center 790.00 M #Res BW 100 kHz		Span 6 MHz W 100 kHz Sweep 2.32 ms (601 pts)



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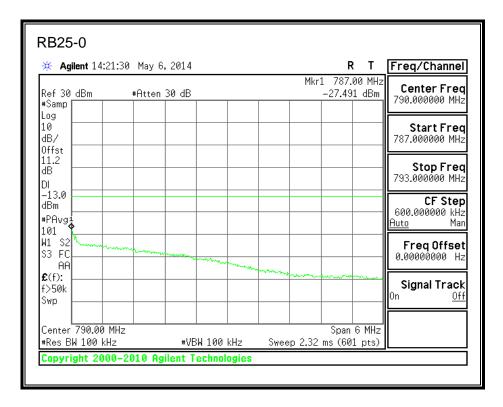
16QAM, 784.5MHz, 787 - 793MHz, (5MHz Bandwidth)





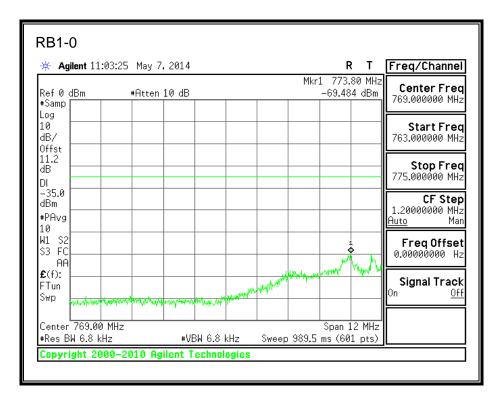
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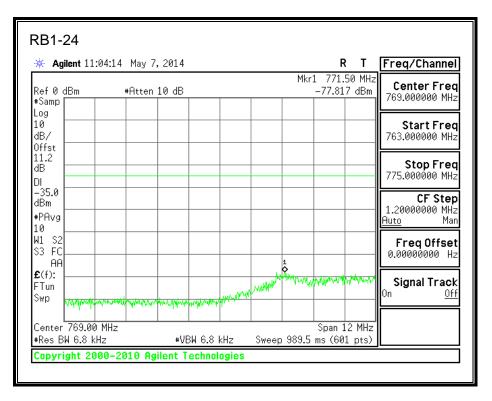
🔆 Agilent 14:23:	12 May 6,2014	R T Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB	Mkr1 787.00 MHz -33.778 dBm 790.000000 MHz 790.000000 MHz
Log 10 dB/ 0ffst		Start Fred 787.000000 MH
11.2 dB DI		Stop Frec 793.000000 MHz
-13.0 dBm #PAvg 101		CF Step 600.000000 kHz <u>Auto</u> Mar
W1 S2 S3 FC		Freq Offset
£(f): f>50k Swp		Signal Track
Center 790.00 MH #Res BW 100 kHz		Span 6 MHz 10 kHz Sweep 2.32 ms (601 pts)



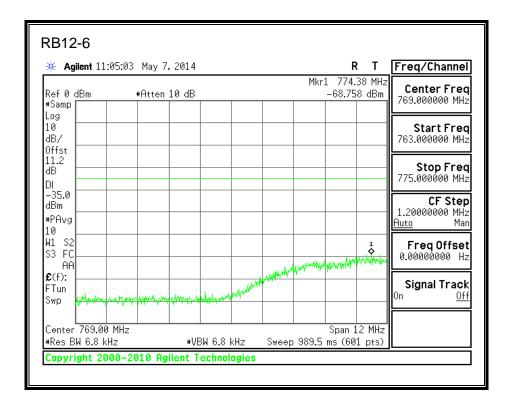
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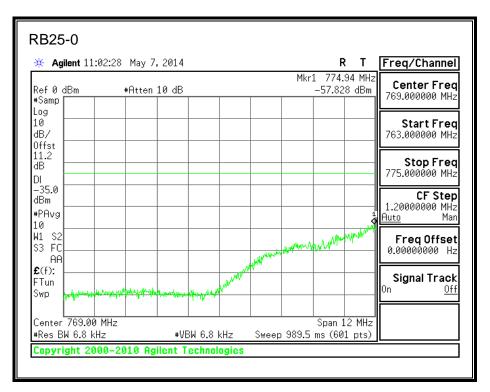
QPSK, 784.5MHz, 763 - 775MHz, (5MHz Bandwidth)





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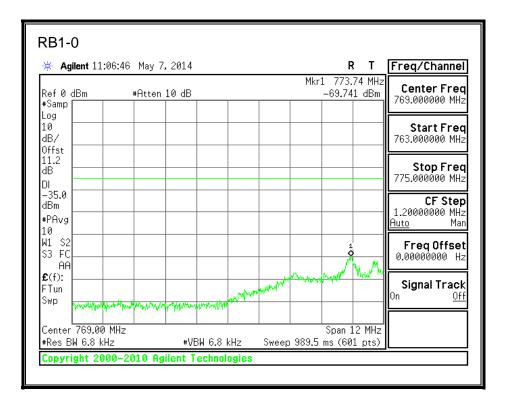


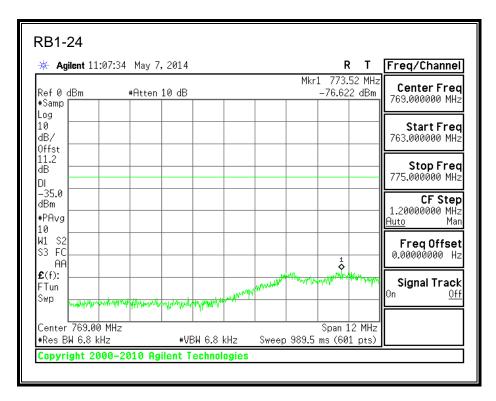


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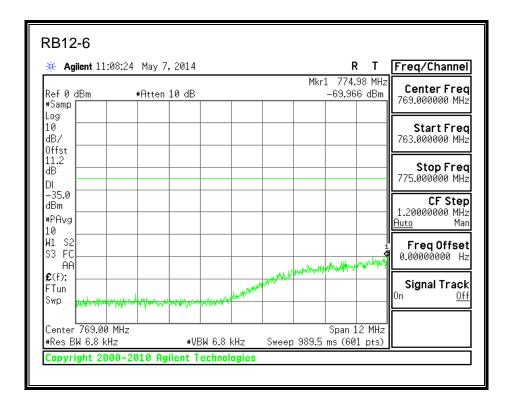
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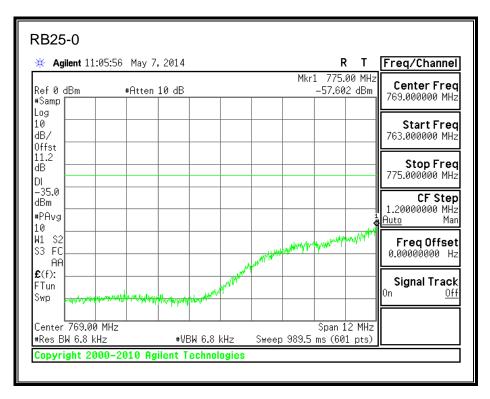
16QAM, 784.5MHz, 763 - 775MHz, (5MHz Bandwidth)





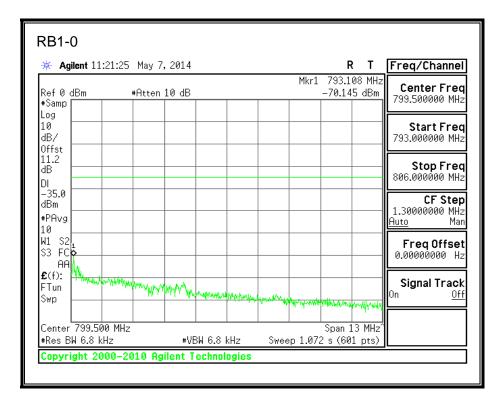
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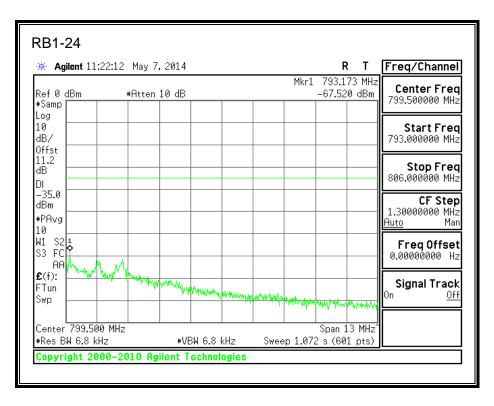




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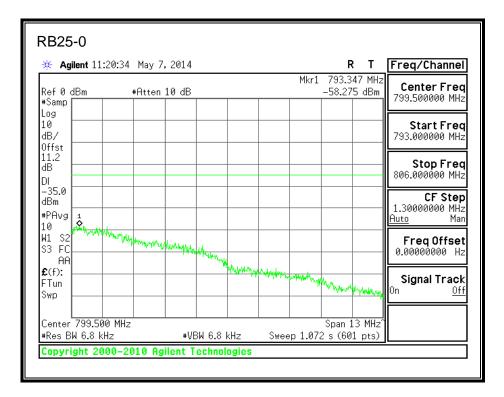
QPSK, 784.5MHz, 793 - 806MHz, (5MHz Bandwidth)





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🔆 Agilent 1	1:23:03 May 7, 2	2014			R	Т	Freq/Channel
Ref 0 dBm	#Atten 10) dB			793.000 -68.299		Center Frec 799.500000 MHz
#Samp Log							
10 dB/							Start Frec 793.000000 MHz
Offst 11.2							
dB							Stop Frec 806.000000 MHz
							806.000000 MHz
-35.0 dBm							CF Step
#PAvg							1.30000000 MHz <u>Auto</u> Mar
10				_			
W1 S24 S3 FC 1							Freq Offset
AA WWW	Marian and a second and a secon						0.00000000 Hz
£ (f):		Martin .		_			Signal Track
FTun		and the second second	1 minute with w	howanter	WINLAW WILLIAM	للمعادرة	On Off
Swp						About 1	
Center 799. #Res BW 6.8		#VBW 6.8		eep 1.072	Span 13		

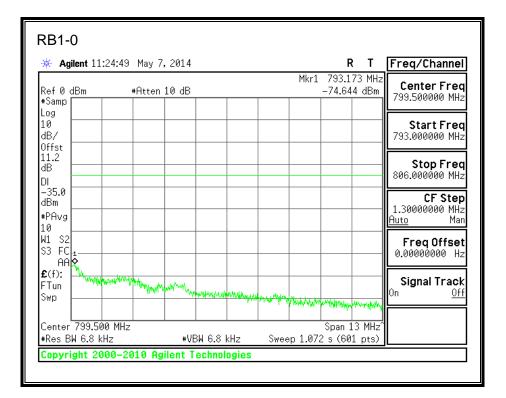


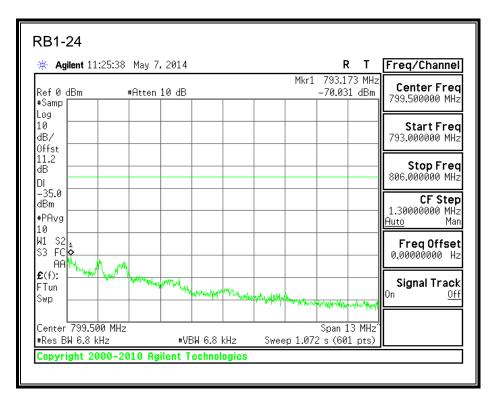
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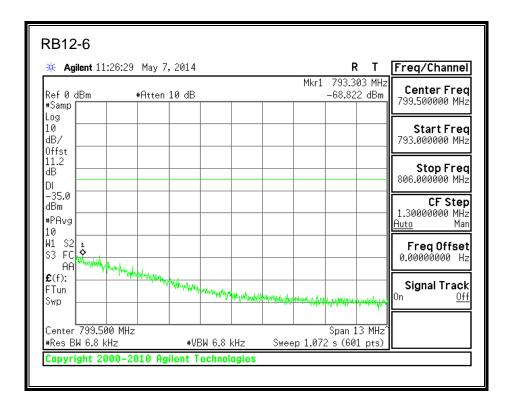
FORM NO: CCSUP4701J FAX: (510) 661-0888

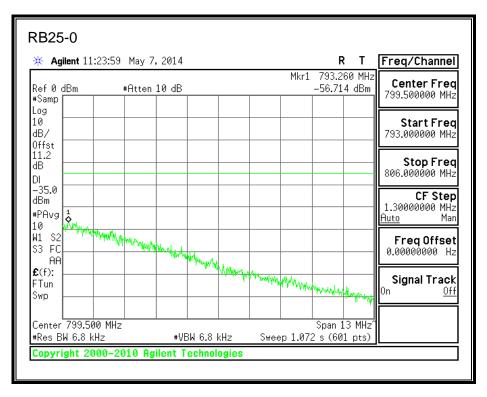
16QAM, 784.5MHz, 793 - 806MHz, (5MHz Bandwidth)





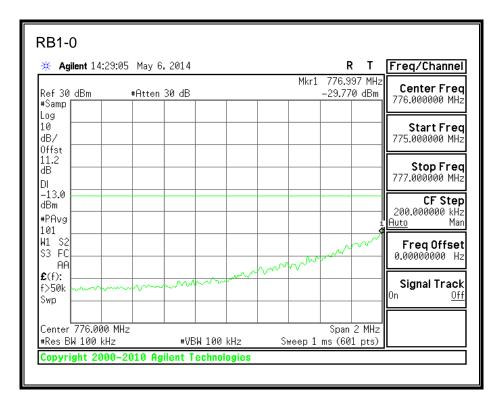
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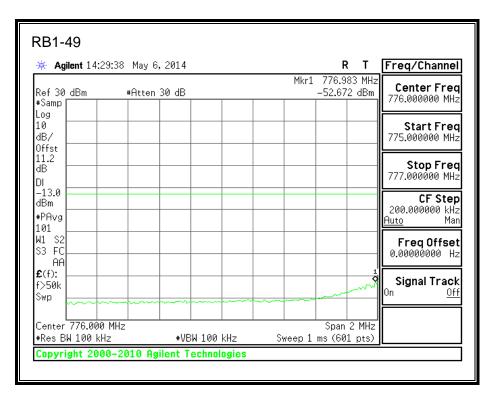




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UL VERIFICATION SERVICES INC. FORM
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 F
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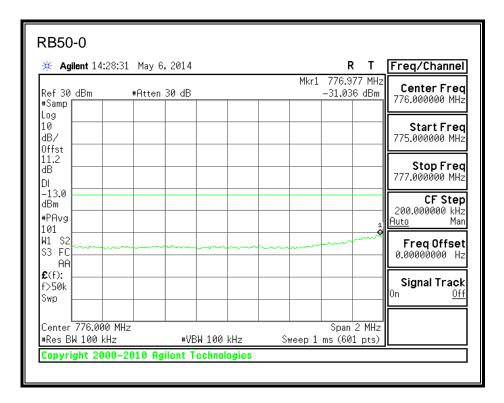
QPSK, 782MHz, 775 - 777MHz, (10MHz Bandwidth)





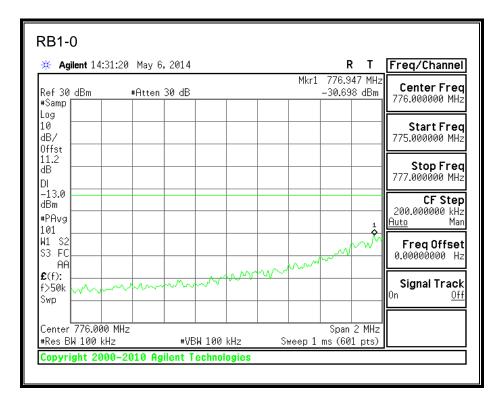
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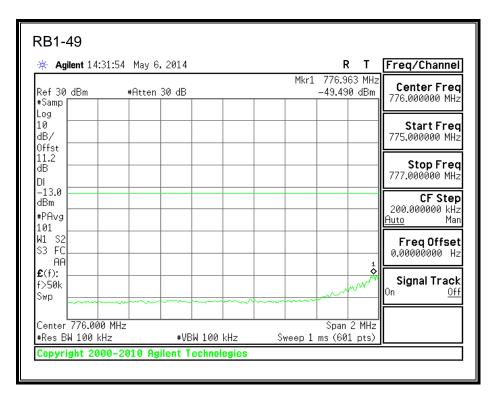
🔆 Agilent 14:30:11 May	6,2014			Freq/Channel
Ref 30 dBm #Atte #Samp	en 30 dB	Mkr1 777. –35.4	000 MHz 55 dBm	Center Fred 776.000000 MHz
Log 10 dB/ 0ffst				Start Frec 775.000000 MHz
11.2 dB DI				Stop Fred 777.000000 MHz
-13.0 dBm #PAvg 101				CF Step 200.000000 kHz <u>Auto</u> Mar
W1 S2 S3 FC AA				Freq Offset 0.00000000 Hz
£(f): f>50k Swp				Signal Track On <u>Off</u>
Center 776.000 MHz #Res BW 100 kHz	#VBW 100 kHz	Spar Sweep 1 ms (6)	n 2 MHz 01 pts)	



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16QAM, 782MHz, 775 - 777MHz, (10MHz Bandwidth)





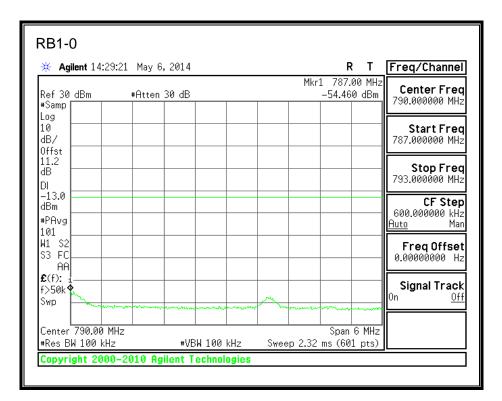
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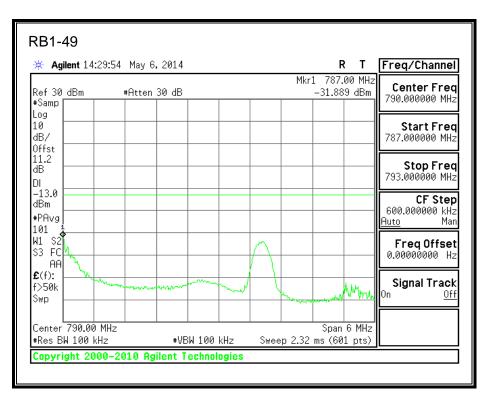
🔆 Agilent 14:32:29	lay 6, 2014	R	T Freq/Channe
Ref 30 dBm #A	tten 30 dB	 Mkr1 776.960 -37.144	II Contor Froz
Log 10 dB/			Start Fred 775.000000 MH:
0ffst 11.2 dB DI			Stop Fred 777.000000 MH:
-13.0 dBm #PAvg 101			CF Step 200.000000 kH <u>Auto</u> Mai
И1 S2 S3 FC		 	Freq Offse
£(f): f>50k Swp			Signal Tracl
Center 776.000 MHz #Res BW 100 kHz	#VBW 100	Span 2 ep 1 ms (601 j	

RB50-0							
🔆 Agilent 14	:30:50 May	6,2014			R	Т	Freq/Channel
Ref 30 dBm #Samp	#Atte	n 30 dB		Mkr1	777.00 -30.881		Center Freq 776.000000 MHz
Log 10 dB/ 0ffst							Start Freq 775.000000 MHz
11.2 dB DI -13.0							Stop Freq 777.000000 MHz
-13.0 dBm #PAvg 101							CF Step 200.000000 kHz <u>Auto</u> Man
W1 S2 S3 FC AA							FreqOffset 0.00000000 Hz
£(f): f>50k Swp							Signal Track ^{On <u>Off</u>}
Center 776.0 #Res BW 100	kHz	#VBW 10		Sweep 1	Span : ms (601		
copyright 2	000-2010 H	gilent Techn	ulugies				

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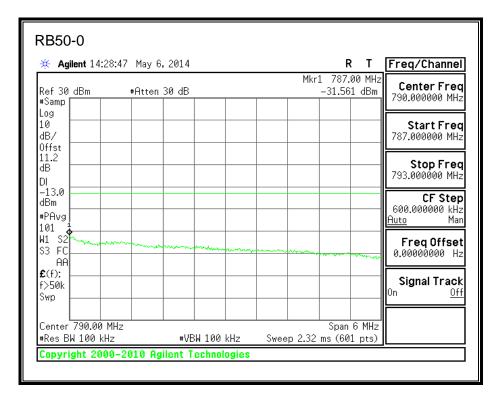
QPSK, 782MHz, 787 - 793MHz, (10MHz Bandwidth)





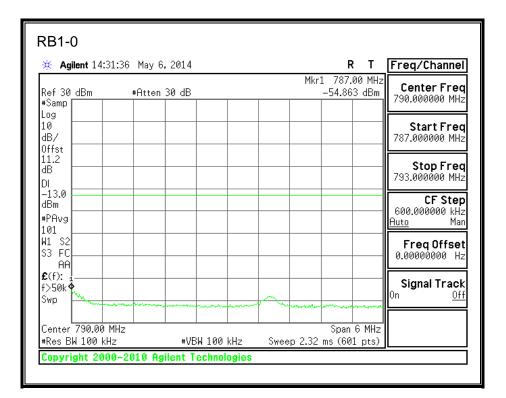
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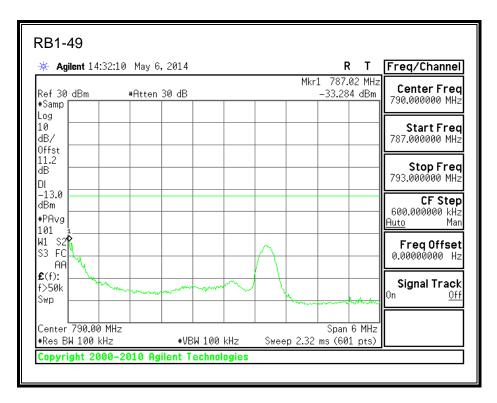
🔆 Agilent 14:30:27	May 6, 2014				F	T	Freq/Channe
Ref 30 dBm #Samp	#Atten 30 dB				L 787. -34.60	07 MHz 8 dBm	Center Free 790.000000 MH
Log 10 dB/ 0ffst							Start Free 787.000000 MH
11.2 dB DI -13.0							Stop Fred 793.000000 MH:
-13.0 dBm #PAvg 101							CF Step 600.000000 kH: <u>Auto</u> Ma
W1 S2 S3 FC AA	mar I						Freq Offse 0.00000000 H:
£(f): f>50k Swp				an a	~~~~~	- marine	Signal Tracl ^{On <u>Of</u>}
Center 790.00 MHz #Res BW 100 kHz	#VBW	 100 kHz	Swee	p 2.32		6 MHz 1 nts)	



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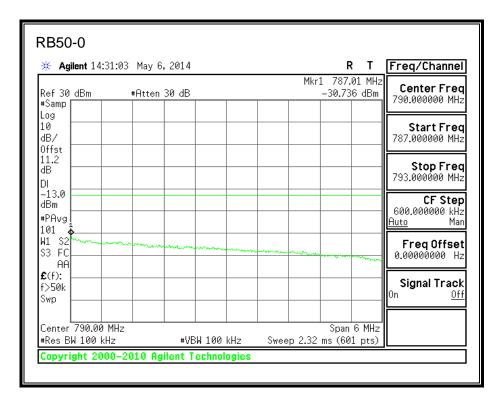
16QAM, 782MHz, 787 - 793MHz, (10MHz Bandwidth)





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₭ Agilent 14:32:4	5 May 6,2014			R	Т	Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB		Mkr:	1 787.10 -35.242		Center Fred 790.000000 MHz
Log 10 dB/ 0ffst						Start Frec 787.000000 MHz
11.2 dB DI					_	Stop Fred 793.000000 MHz
-13.0 dBm #PAvg 101						CF Step 600.000000 kHz <u>Auto</u> Mar
101 №1 S2 ф S3 FC						Freq Offset 0.00000000 Hz
£(f): f>50k Swp		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		·····		Signal Track On <u>Of</u> i
Center 790.00 MHz #Res BW 100 kHz		.00 kHz	Sweep 2.32	Span 6 ms (601		

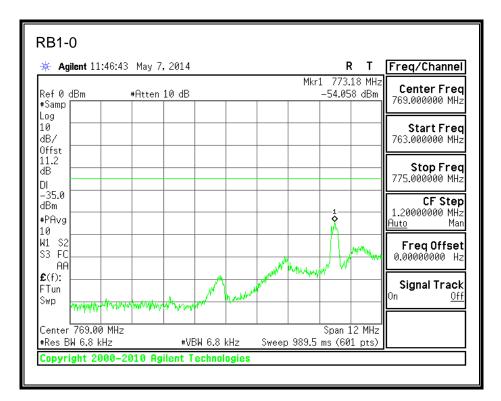


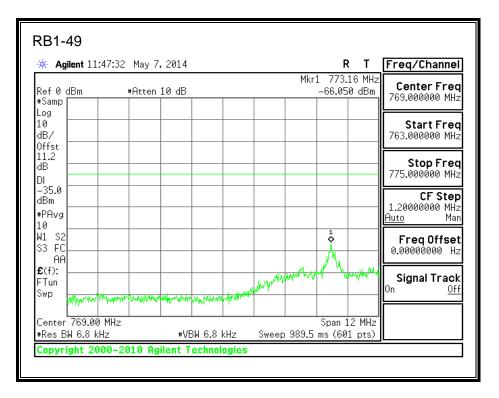
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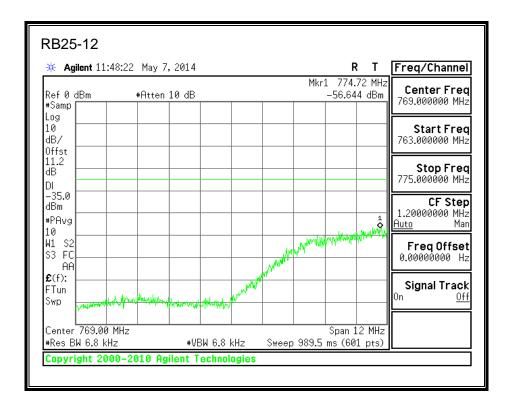
FORM NO: CCSUP4701J FAX: (510) 661-0888

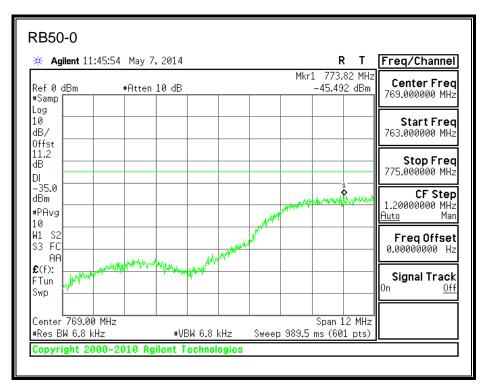
QPSK, 782MHz, 763 - 775MHz, (10MHz Bandwidth)





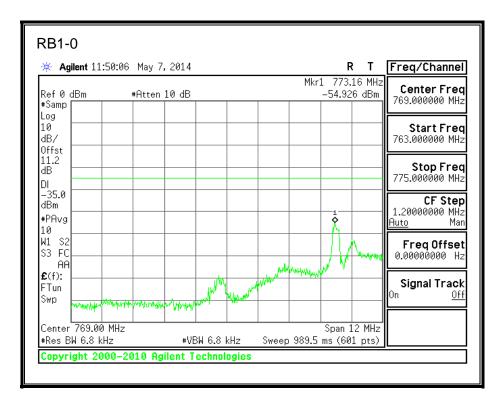
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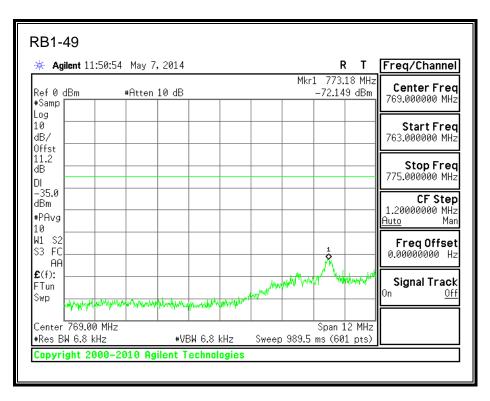




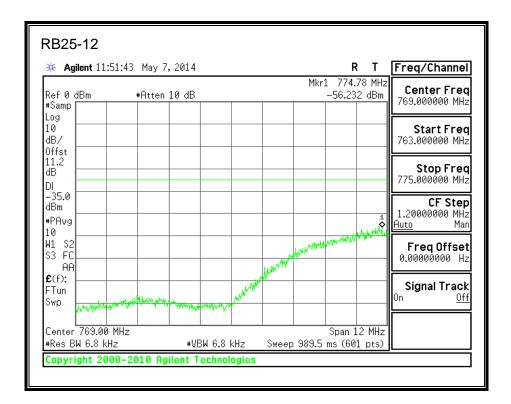
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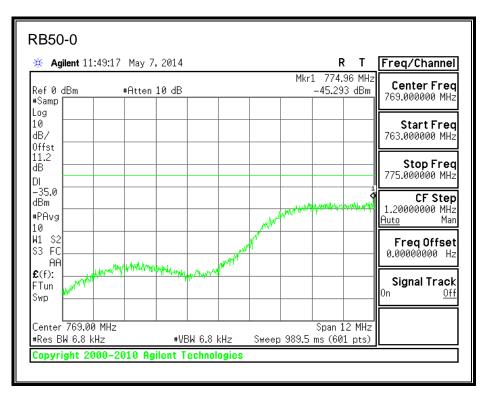
16QAM, 782MHz, 763 - 775MHz, (10MHz Bandwidth)





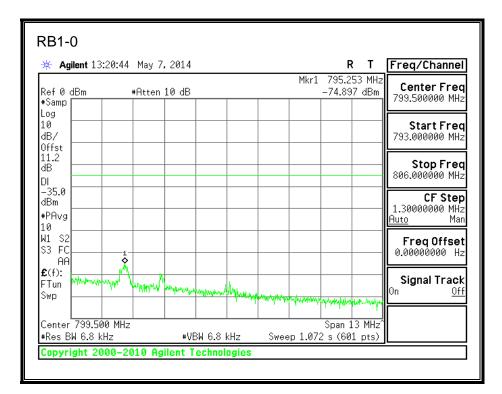
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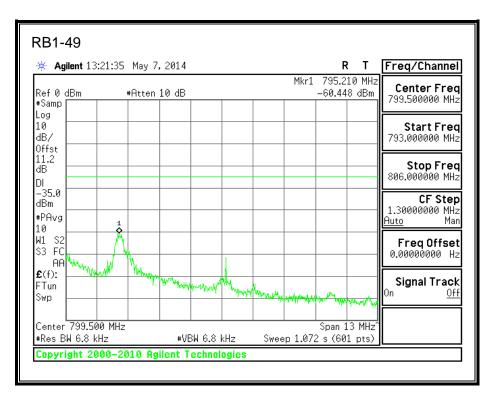




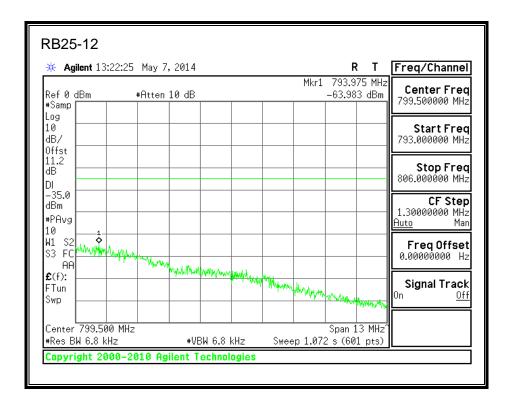
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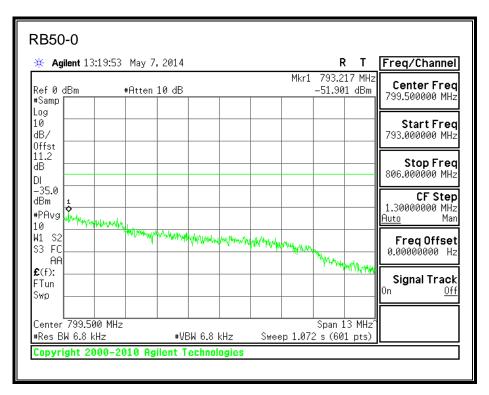
QPSK, 782MHz, 793 - 806MHz, (10MHz Bandwidth)





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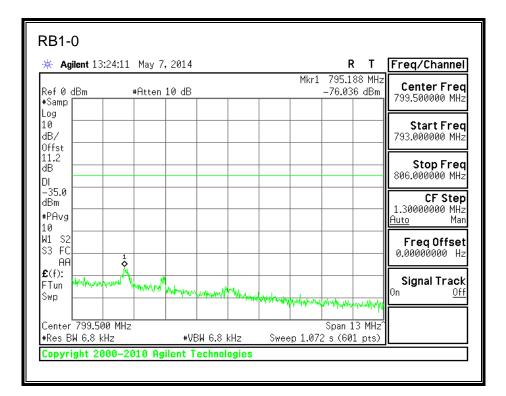


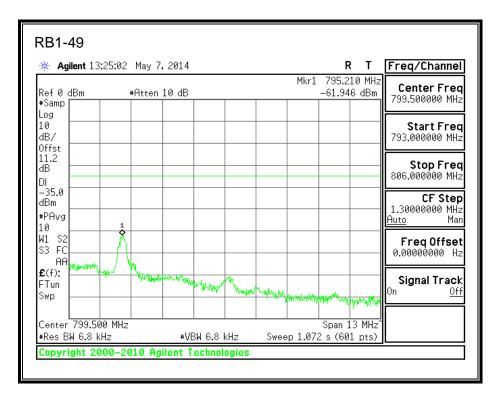
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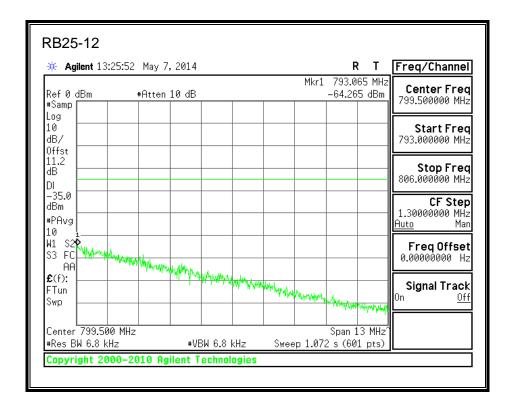
FORM NO: CCSUP4701J FAX: (510) 661-0888

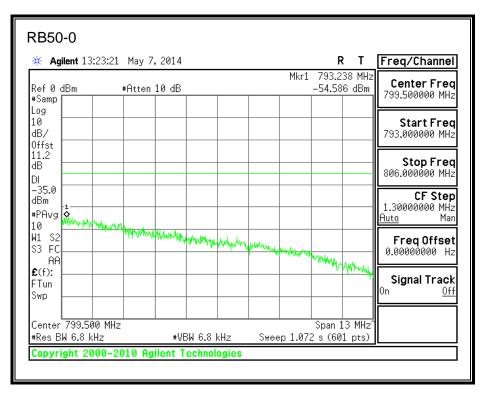
16QAM, 782MHz, 793 - 806MHz, (10MHz Bandwidth)





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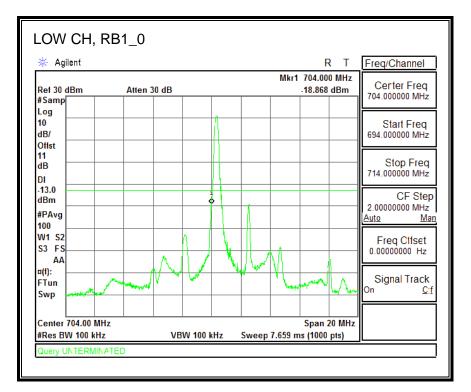


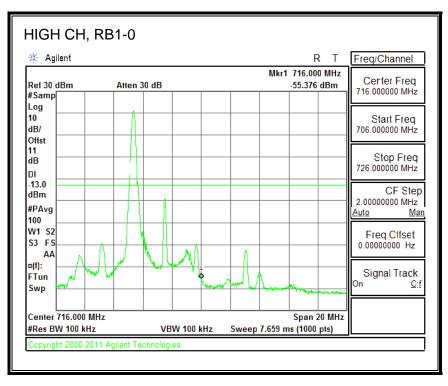


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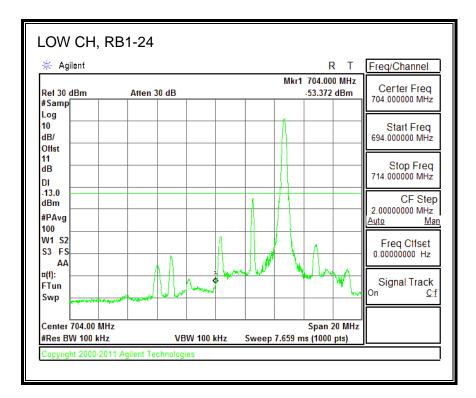
8.2.5. LTE BAND 17 BANDEDGE

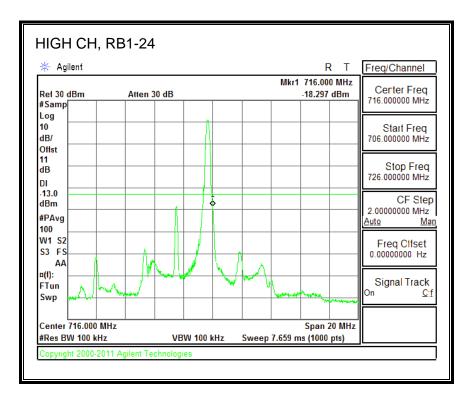
QPSK, (5.0 MHz BAND WIDTH)



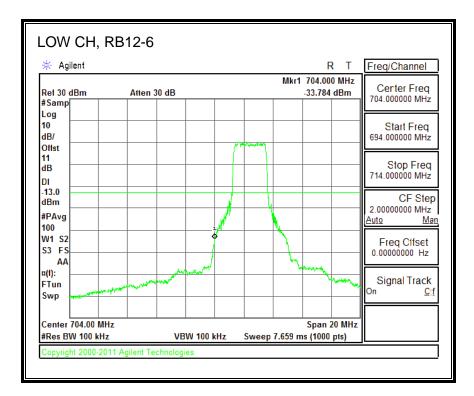


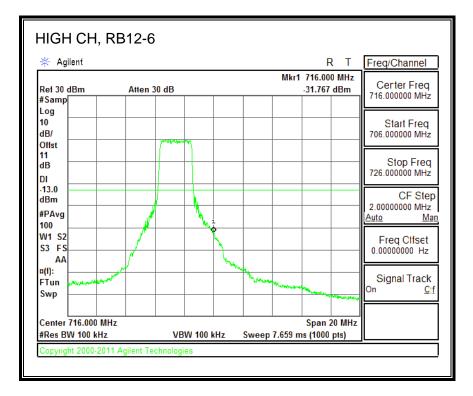
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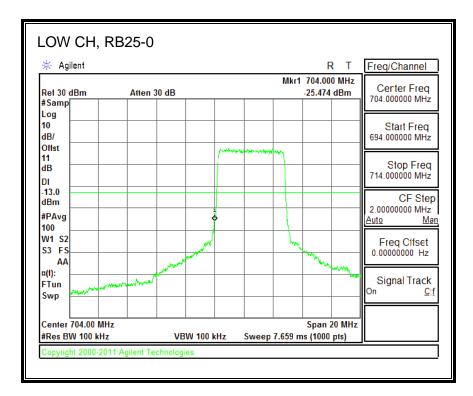
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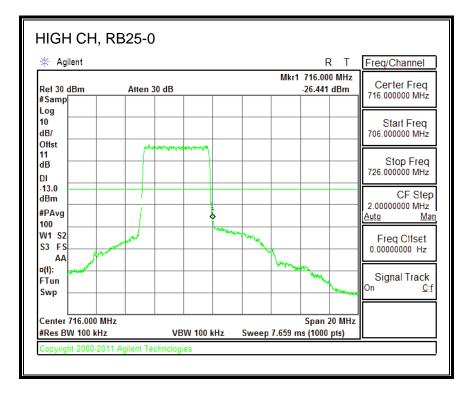




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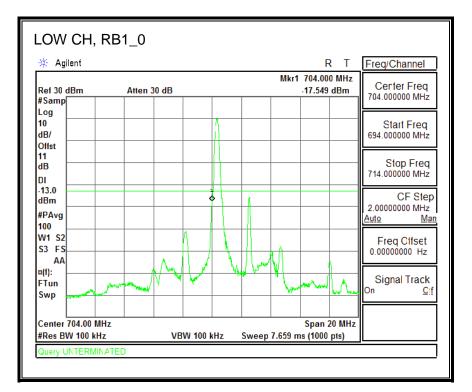
FORM NO: CCSUP4701J FAX: (510) 661-0888

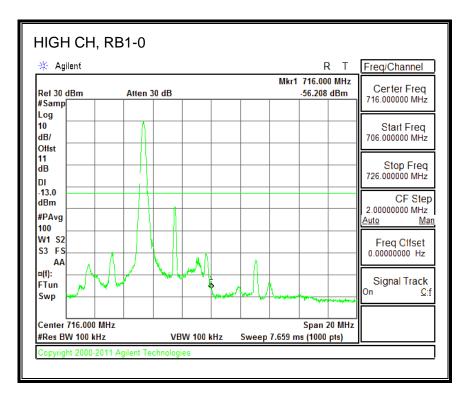




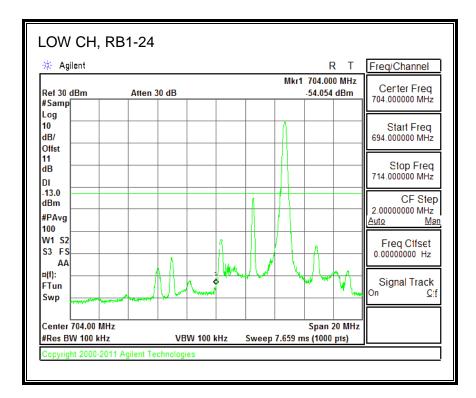
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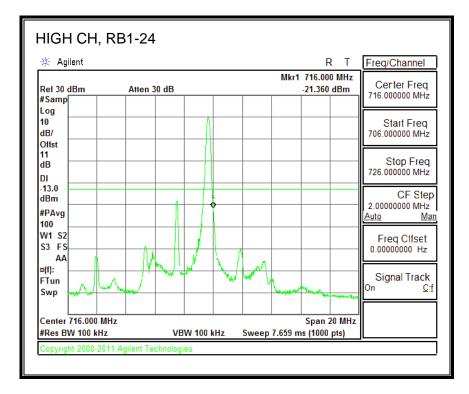
16QAM, (5.0 MHz BAND WIDTH)



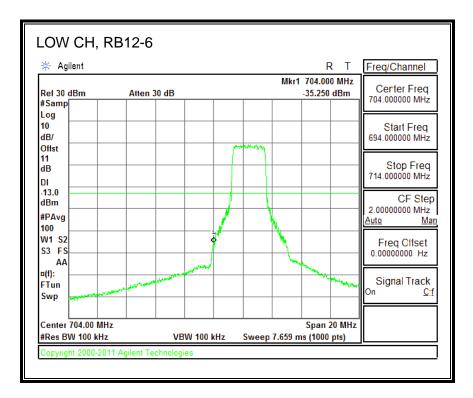


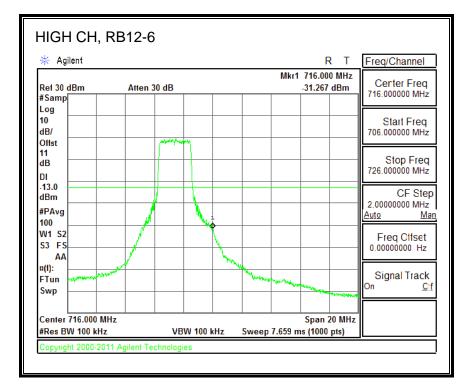
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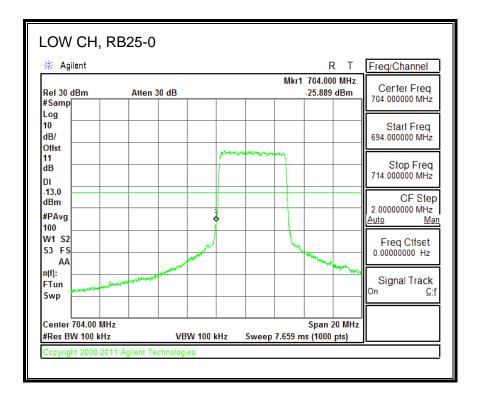


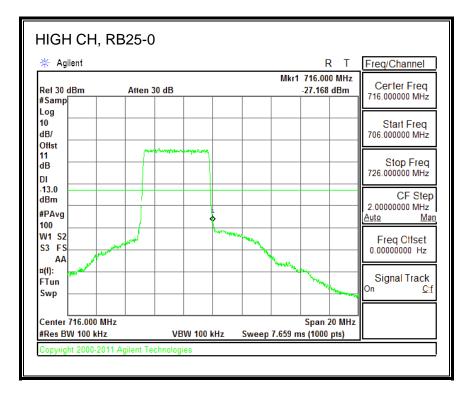


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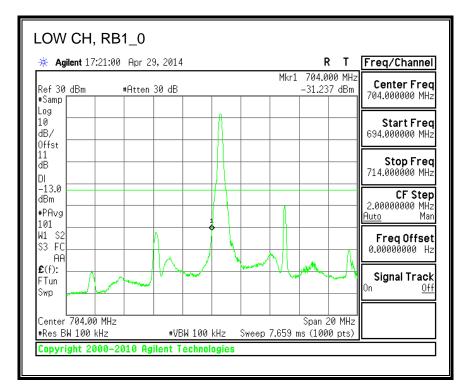
FORM NO: CCSUP4701J FAX: (510) 661-0888

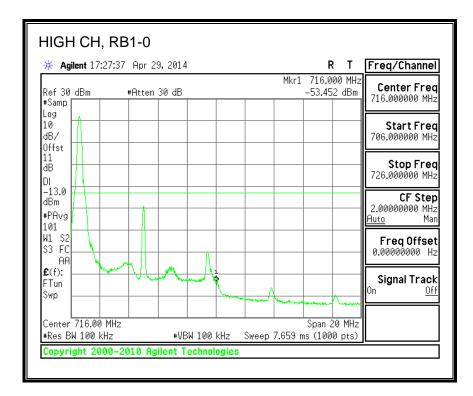




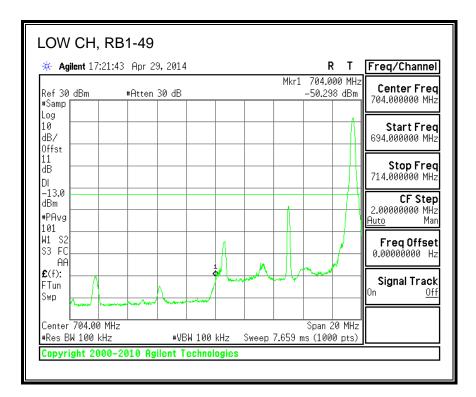
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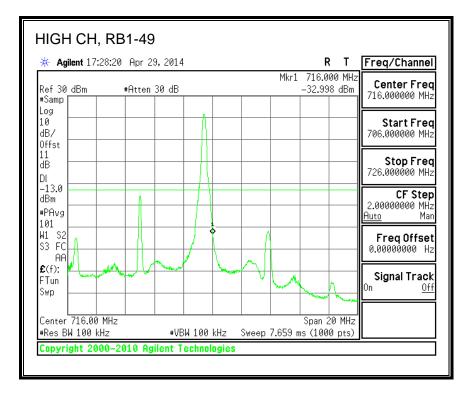
QPSK, (10.0 MHz BAND WIDTH)



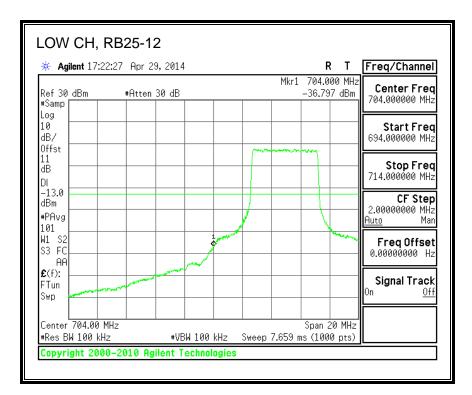


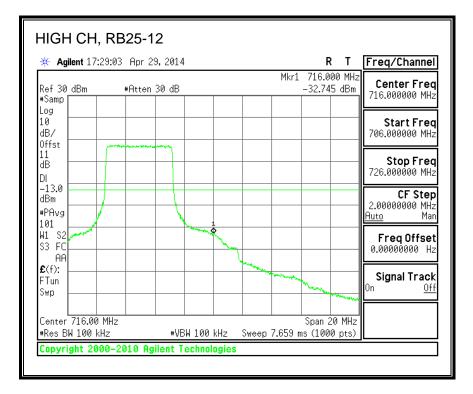
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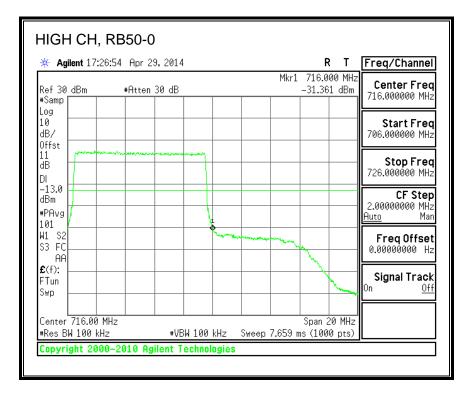
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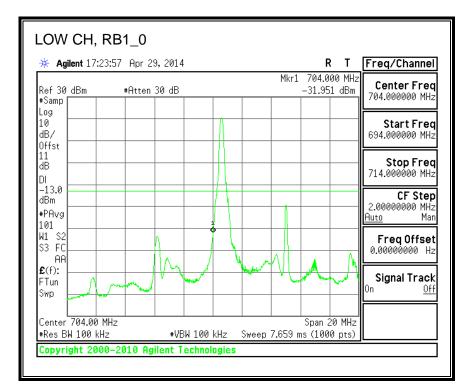
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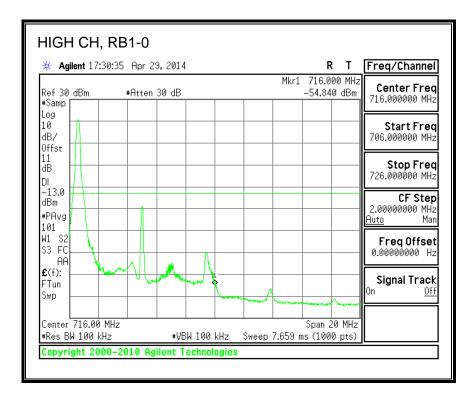
🔆 Agilent 17	:20:18 Apr 2	9,2014				R	-	Freq/Channe
Ref 30 dBm #Samp	#Atten	30 dB		 		704.00 -30.85	00 MHz 8 dBm	Center Fred 704.000000 MHz
Log 10 dB/								Start Fred 694.000000 MHz
Offst 11 dB DI				 	****	~~~~	proven	Stop Fred 714.000000 MHz
-13.0 dBm #PAvg								CF Step 2.00000000 MHz <u>Auto</u> Mar
101 W1 S2 S3 FC AA			4					Freq Offset 0.00000000 Hz
£(f): FTun Swp								Signal Track On <u>Of</u>
Center 704.00 #Res BW 100			100 L	 <u> </u>	7.659 m	Span 2		



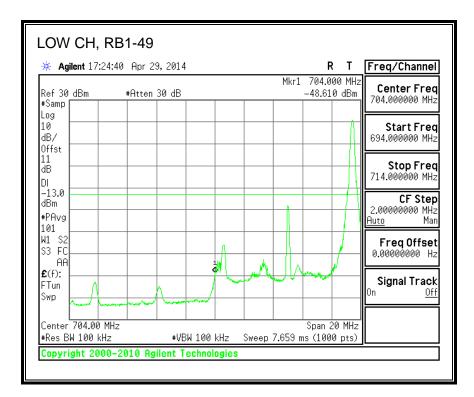
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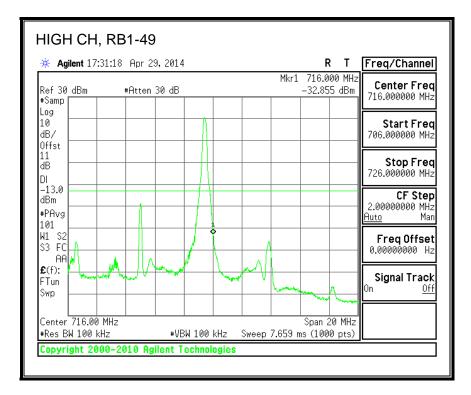
16QAM, (10.0 MHz BAND WIDTH)



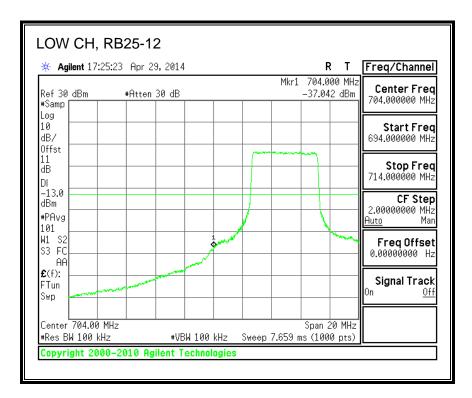


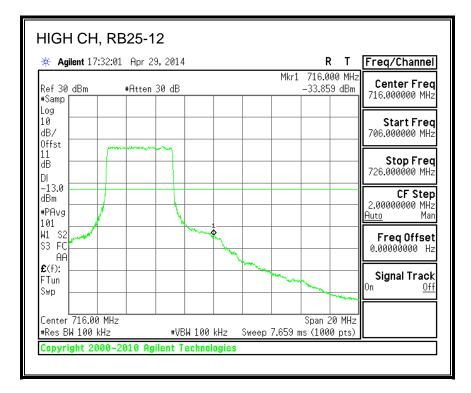
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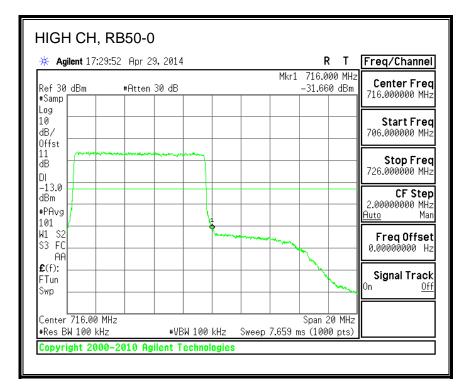
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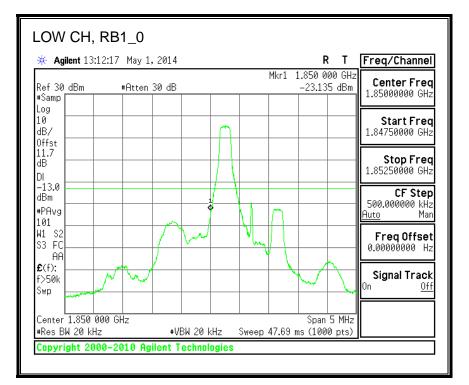
🔆 Agilent 17:2	23 : 14 Apr 29,	2014			R	Т	Freq/Channel
Ref 30 dBm	#Atten 30) dB		Mkr1	704.00 -31.979		Center Fred 704.000000 MHz
*Samp Log 10 dB/ Offst 11 dB DI				······································		~	Start Free 694.000000 MHz Stop Free 714.000000 MHz
-13.0 dBm #PAvg 101							CF Step 2.00000000 MHz <u>Auto</u> Mar
W1 S2 S3 FC AA £(f):	and a start of the						Freq Offset 0.00000000 Hz
FTun Swp							Signal Track On <u>Of</u> i
Center 704.00 #Res BW 100 kl		#VBW 100	kHz Swe	ep 7.659 r	Span 20 Span 20		

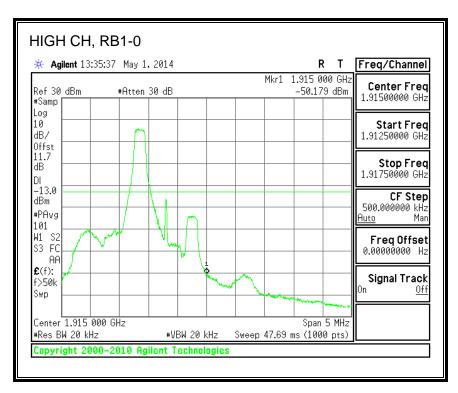


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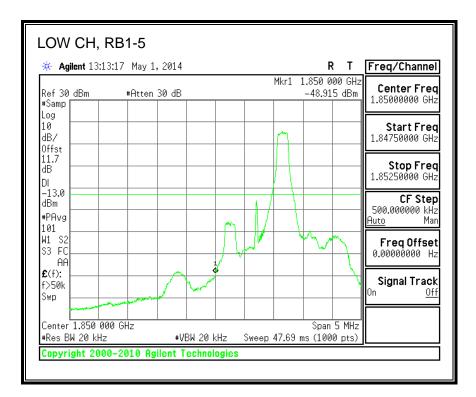
8.2.6. LTE BAND 25 BANDEDGE

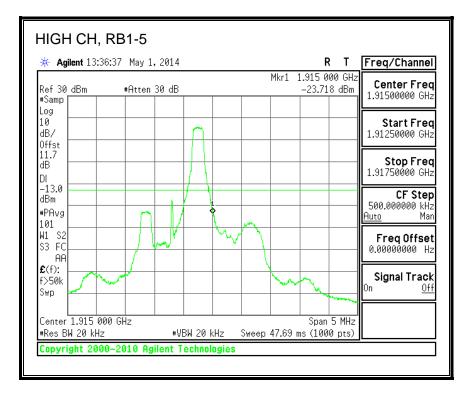
QPSK, (1.4 MHz BAND WIDTH)



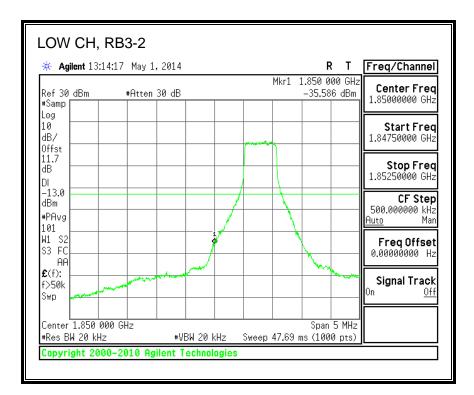


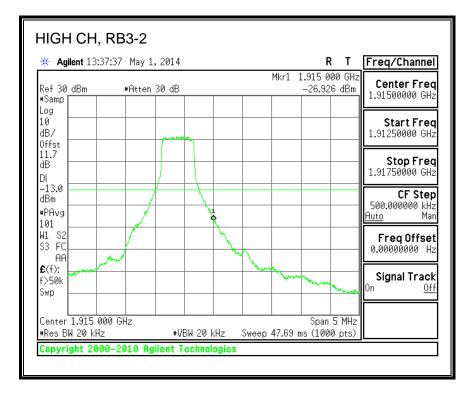
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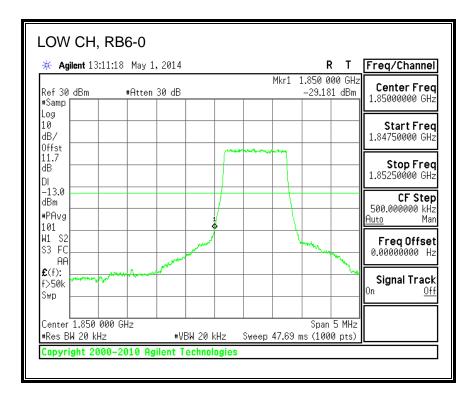


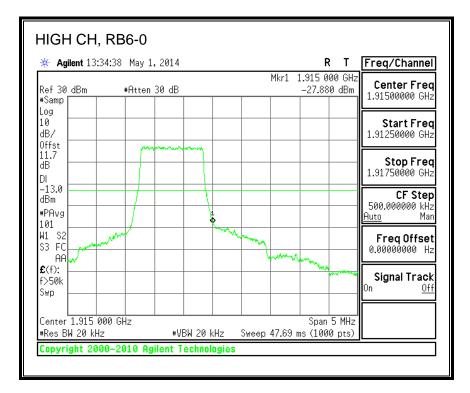
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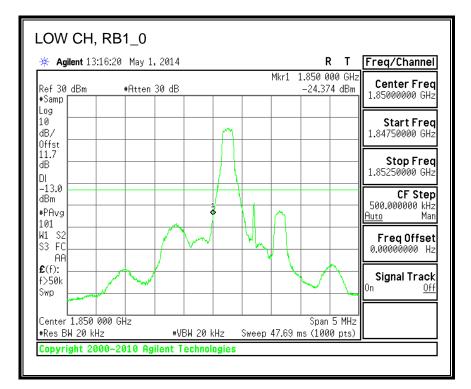
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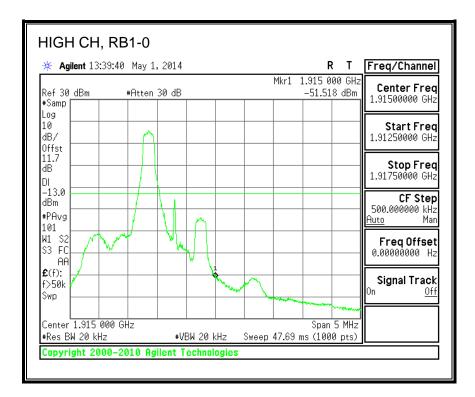




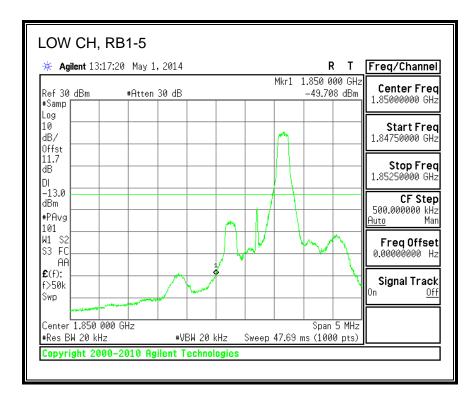
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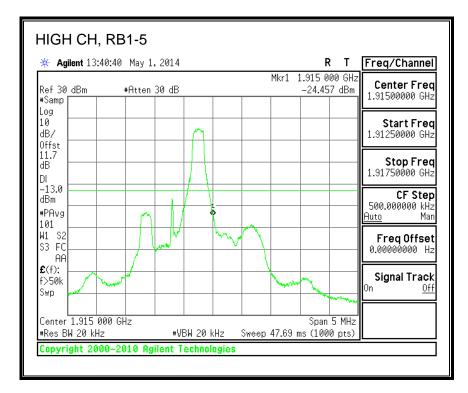
16QAM, (1.4 MHz BAND WIDTH)



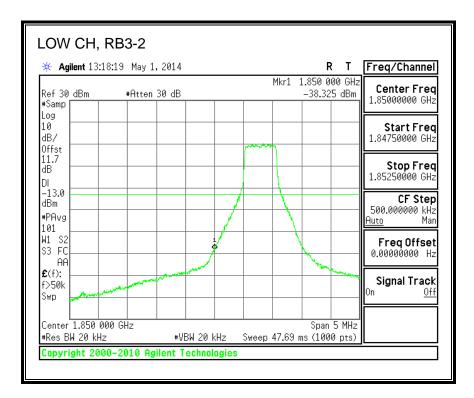


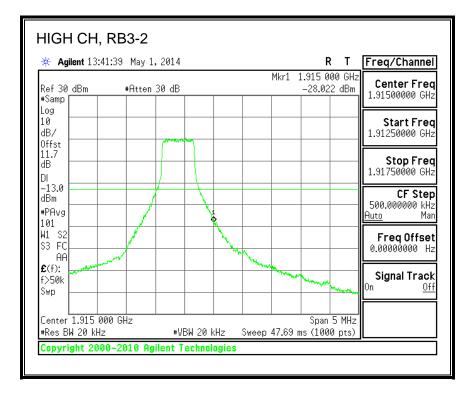
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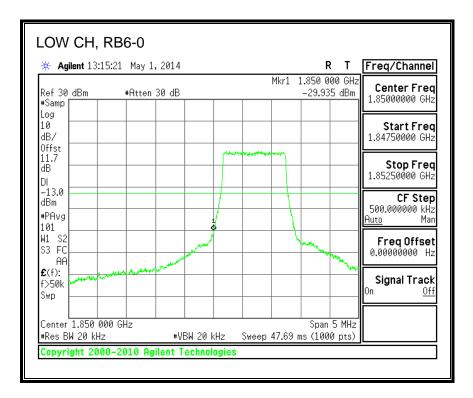


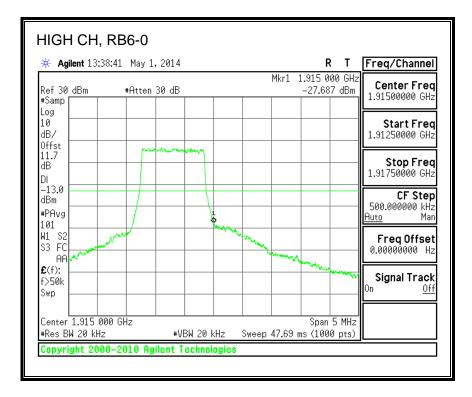
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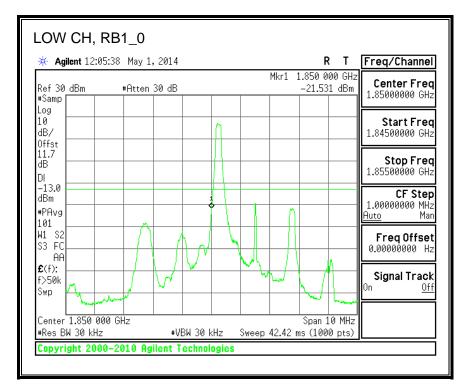


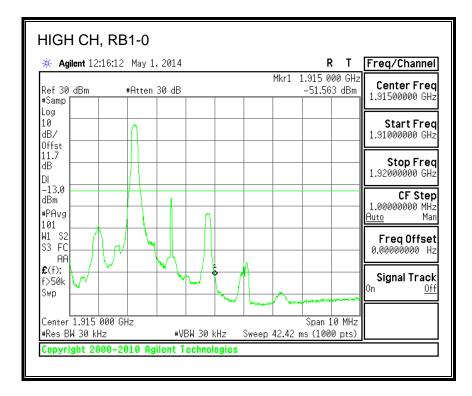
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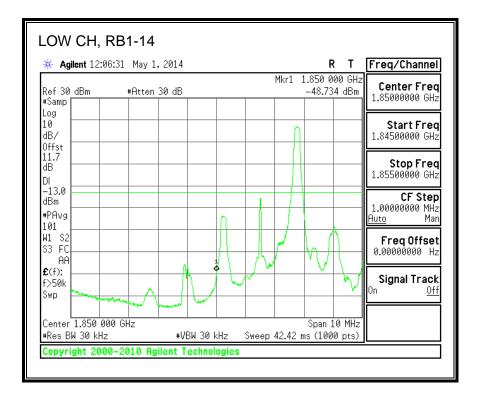
FORM NO: CCSUP4701J FAX: (510) 661-0888

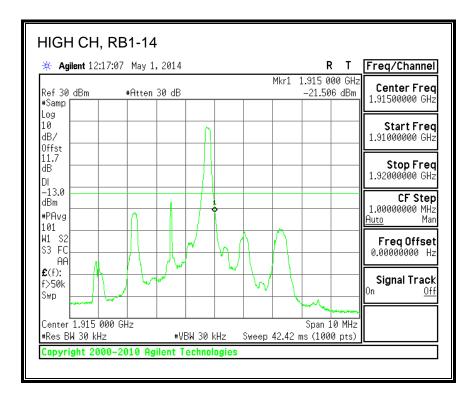
QPSK, (3.0 MHz BAND WIDTH)



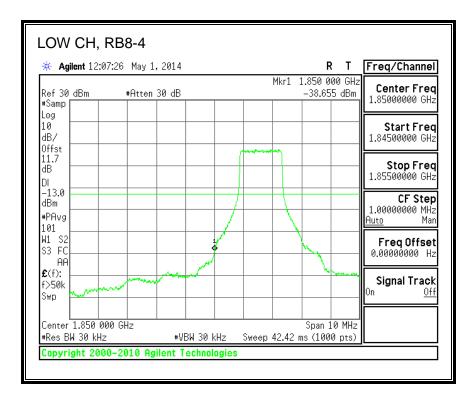


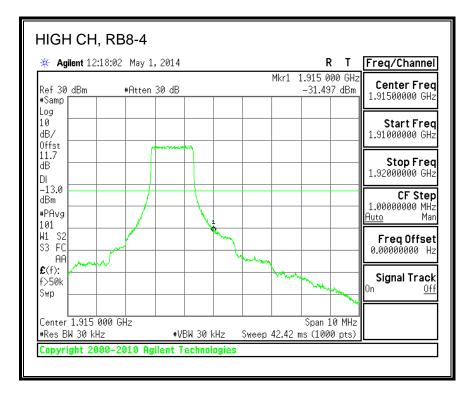
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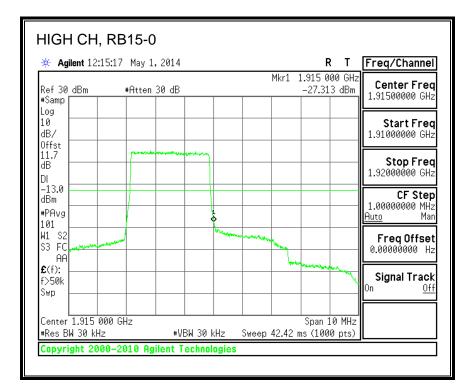
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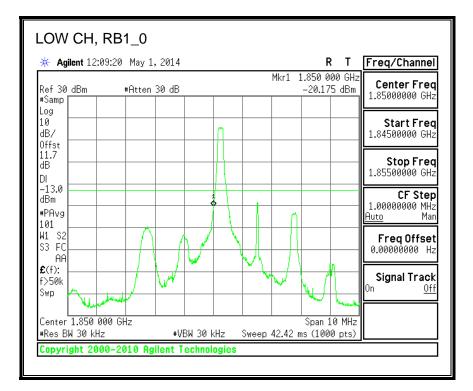
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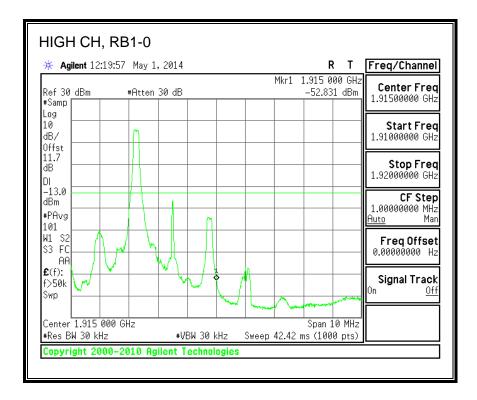
🔆 Agilent 12:0)4:43 May 1, 2014			R		Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB		Mkr1	1.850 00 -27.778		Center Freq 1.85000000 GHz
Log 10 dB/ Offst						Start Frec 1.84500000 GHz
11.7 dB DI			**************************************			Stop Fred 1.85500000 GHz
-13.0 dBm #PAvg						CF Step 1.00000000 MHz <u>Auto</u> Mar
101 W1 S2 S3 FC AA				hanna	m	Freq Offset 0.00000000 Hz
£ (f): f>50k Swp						Signal Track On <u>Off</u>
Center 1.850 00 #Res BW 30 kHz		BW 30 kHz S		Span 10		



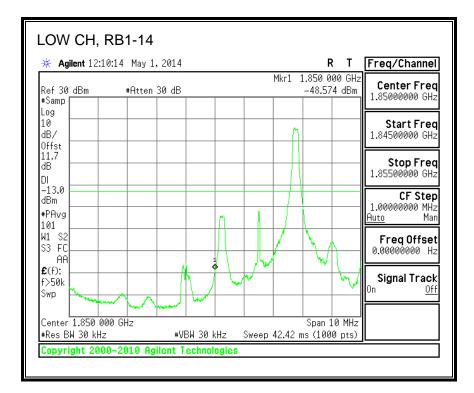
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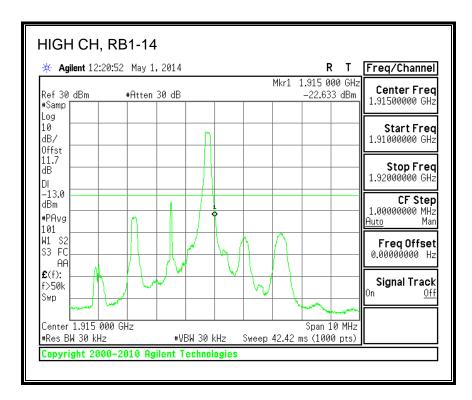
16QAM, (3.0 MHz BAND WIDTH)



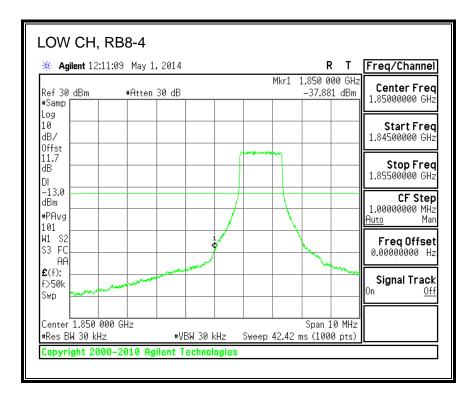


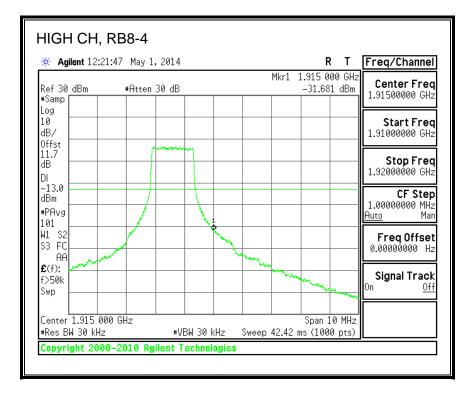
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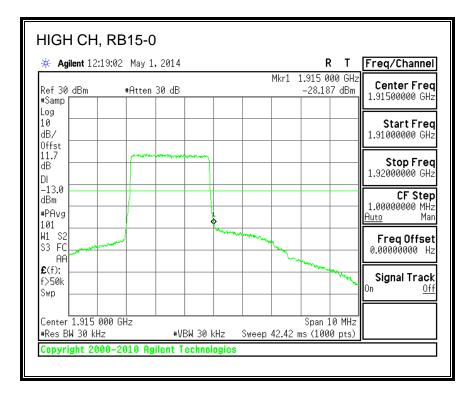
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🔆 Agilent 12:0	08:26 May 1, 2014				R T	Freq/Channe
Ref 30 dBm #Samp	#Atten 30 dB		Mk	r1 1.850 (_27.41	000 GHz 14 dBm	Center Fred 1.8500000 GH
≢samp Log						
10 dB/						Start Free 1.84500000 GH
Offst 11.7 dB		m				Stop Free
DI						1.85500000 GH
-13.0 dBm						CF Ste 1.00000000 MH
#PAvg 101		1				<u>Auto</u> Ma
W1 S2 S3 FC				-	manne	Freq Offse 0.00000000 H
AA £(f):	and a superior					
£(†): f>50k Swp						Signal Tracl On <u>Of</u>
Center 1.850 0	00 GHz			Span	10 MHz	

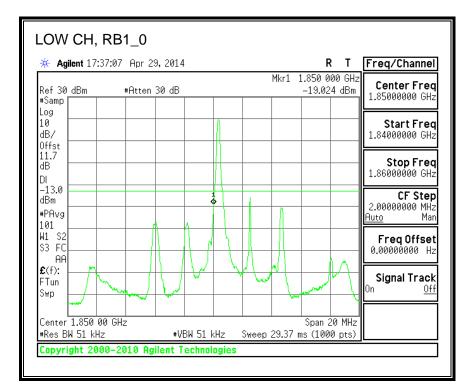


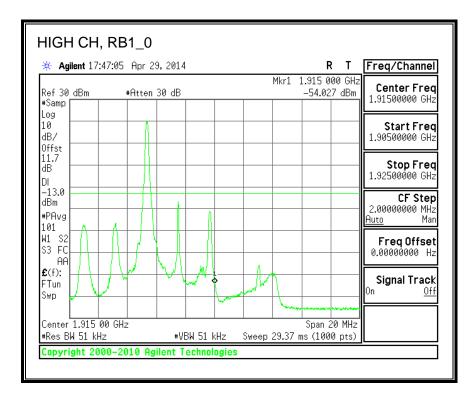
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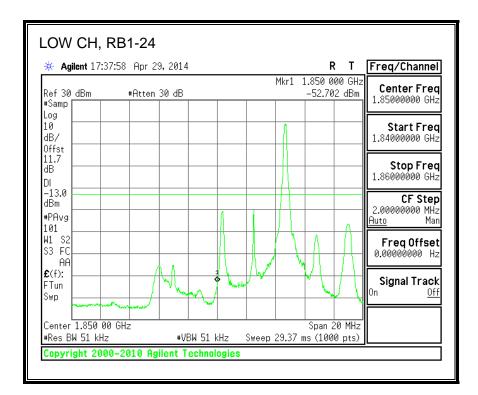
FORM NO: CCSUP4701J FAX: (510) 661-0888

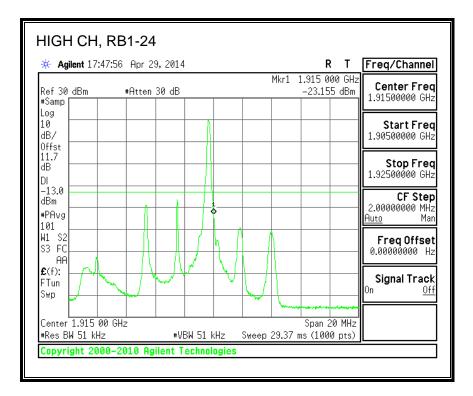
QPSK, (5.0 MHz BAND WIDTH)



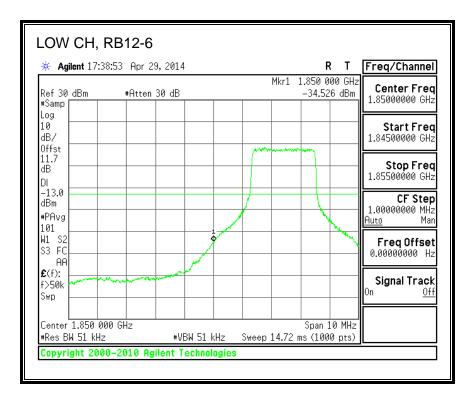


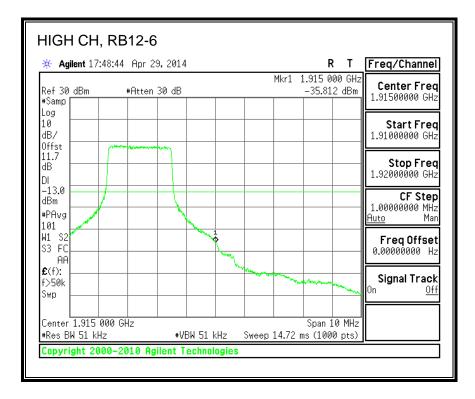
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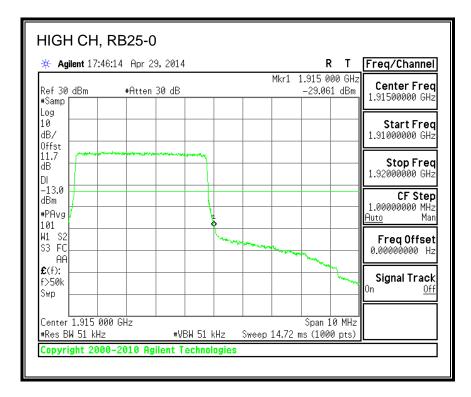
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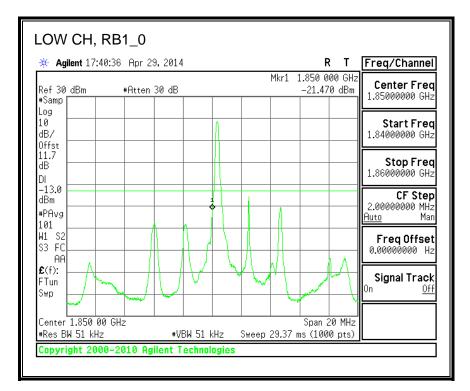
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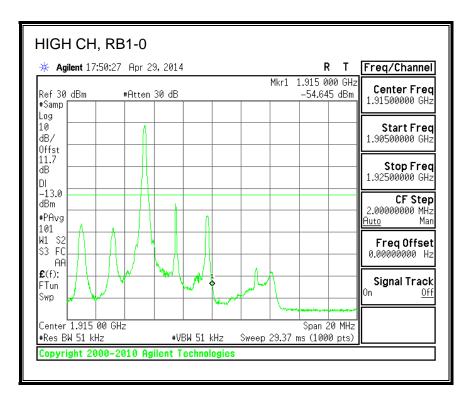
🔆 Agilent 17	:36:16 Apr 2	9,2014			R	 Freq/Channe
Ref 30 dBm #Samp	#Atten	30 dB		Mkr1	1.850 00 -28.151	Center Fred 1.85000000 GH:
Log 10 dB/						 Start Fred 1.84500000 GH
Offst 11.7 dB DI			e	an a		 Stop Fred 1.85500000 GH
-13.0 dBm #PAvg			1			CF Step 1.00000000 MH: Auto Ma
101 W1 S2 S3 FC						Freq Offse 0.00000000 Hi
AA £(f): f>50k Swp						 Signal Tracl
Center 1.850 #Res BW 51 k		#VBW 51		veep 14.72	Span 10	



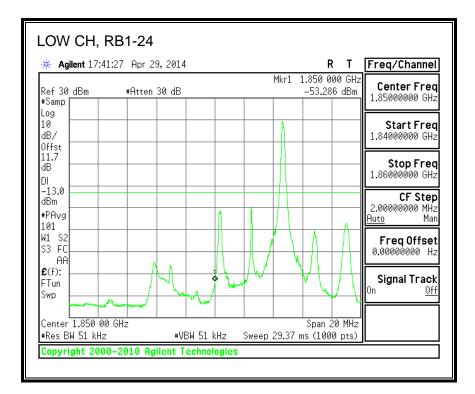
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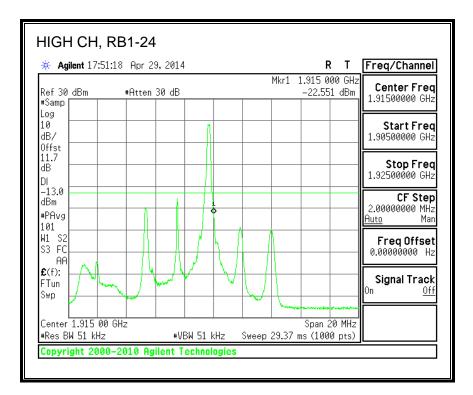
16QAM, (5.0 MHz BAND WIDTH)



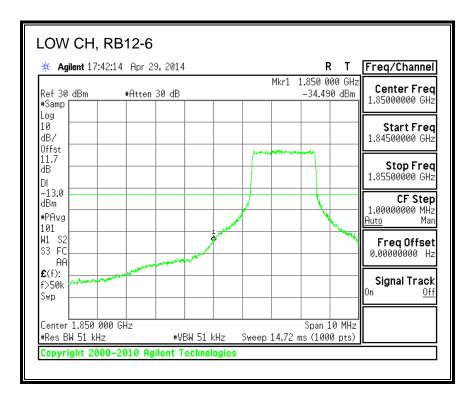


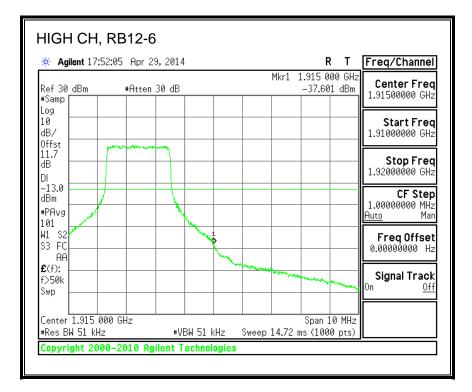
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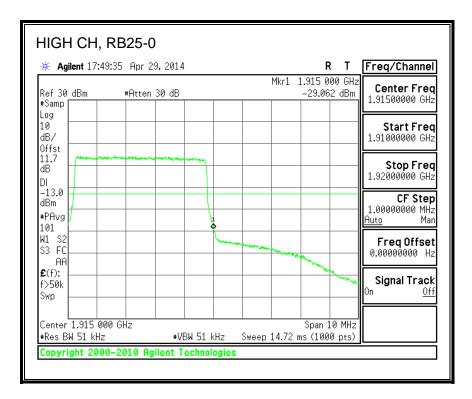
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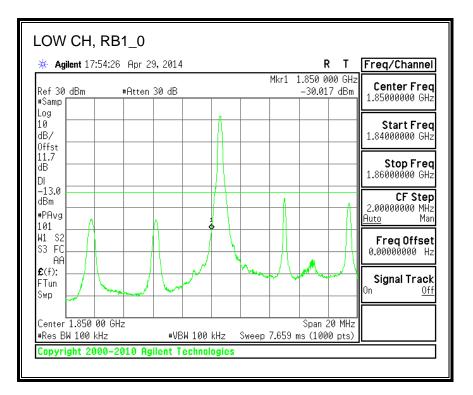
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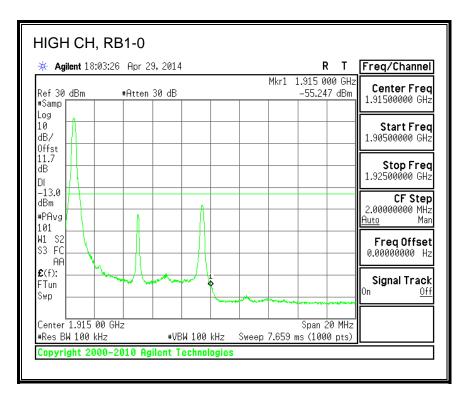
Agilent 17:3	9:45 Apr 29, 2014	+		RT	Freq/Channel
Ref 30 dBm #Samp	#Atten 30 dB		Mkr1 1	1.850 000 GHz -29.385 dBm	
Log 10 dB/ 0ffst					Start Fred 1.84500000 GHz
DI				anna an	Stop Fred 1.85500000 GHz
-13.0 dBm #PAvg					CF Step 1.00000000 MH2 Auto Mar
101 W1 S2 S3 FC AA					Freq Offset 0.00000000 Hz
f>50k Swp					Signal Tracl
Center 1.850 00 #Res BW 51 kHz			Sweep 14.72 m	Span 10 MHz	



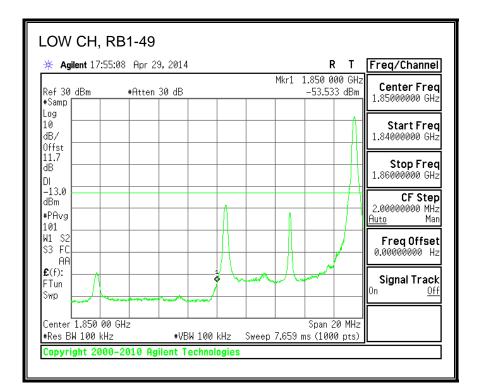
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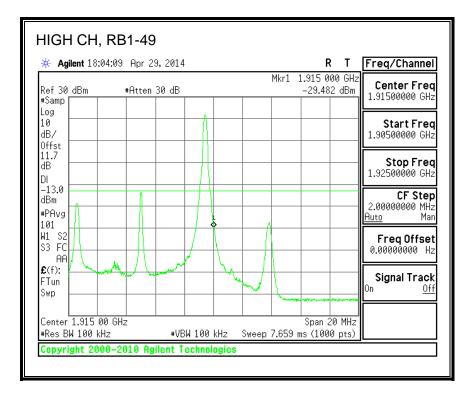
QPSK, (10.0 MHz BAND WIDTH)



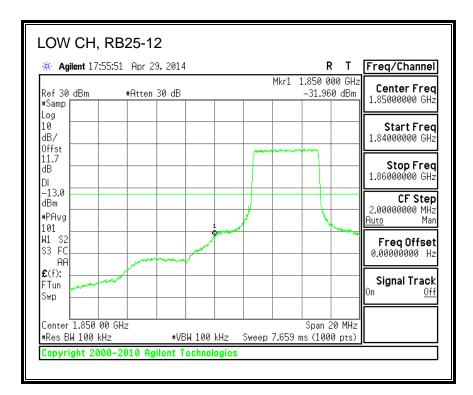


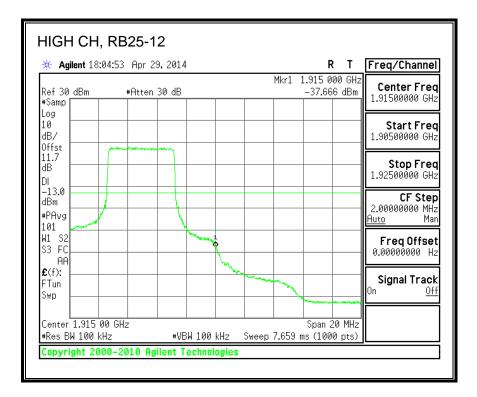
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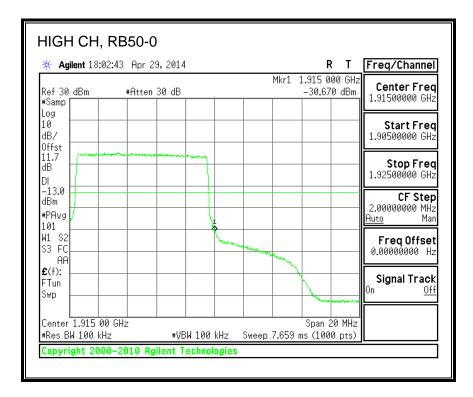
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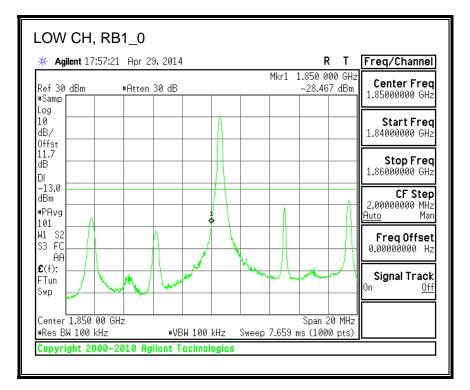
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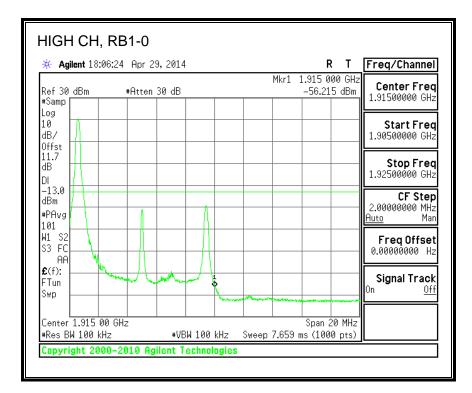
🔆 Agilent 17:53	3:43 Apr 29, 2014			RT	Freq/Channe
Ref 30 dBm #Samp	#Atten 30 dB		Mkr1	1.850 000 GH -29.229 dBm	
Log 10 dB/ Offst					Start Fred 1.84000000 GH:
11.7 dB DI					- Stop Fred 1.86000000 GH:
-13.0 dBm #PAvg		1			CF Step 2.00000000 MH: Auto Mai
101 W1 S2 S3 FC	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Freq Offse 0.00000000 Hi
£(f):					Signal Track
Center 1.850 00 #Res BW 100 kH;				Span 20 MHz ms (1000 pts)	



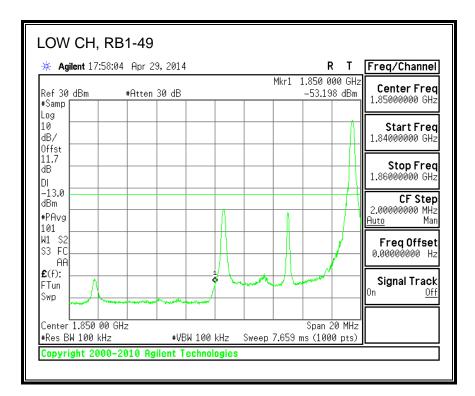
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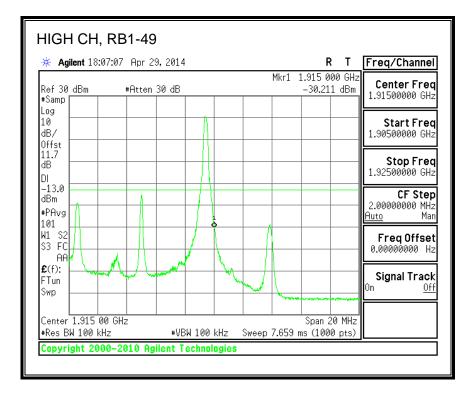
16QAM, (10.0 MHz BAND WIDTH)



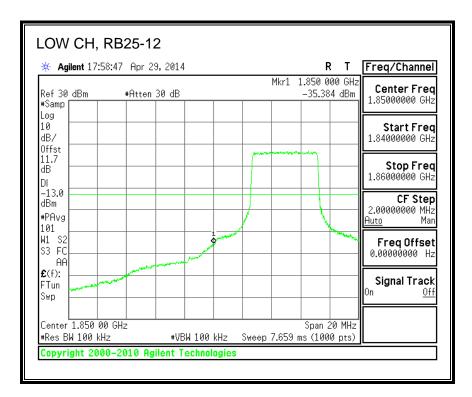


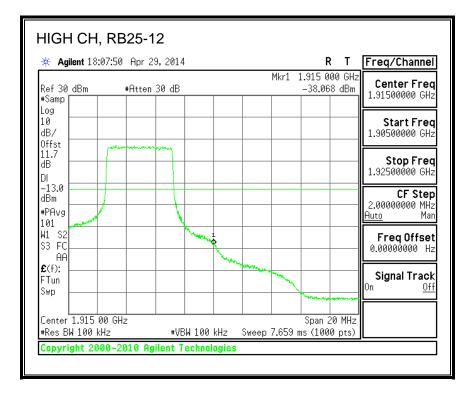
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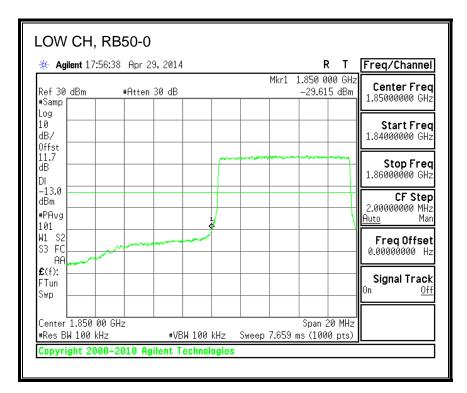


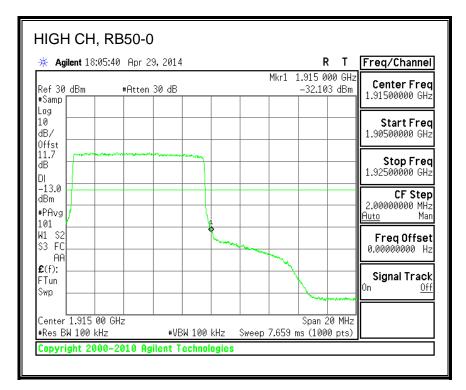
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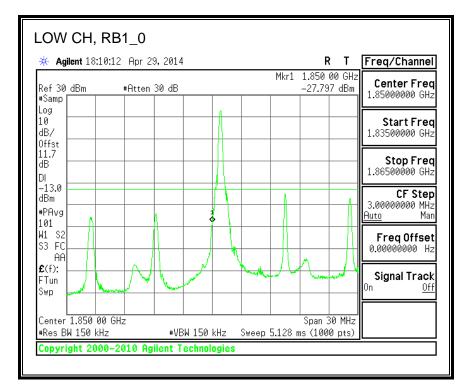
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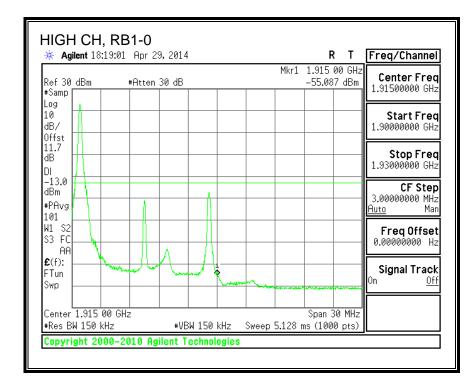




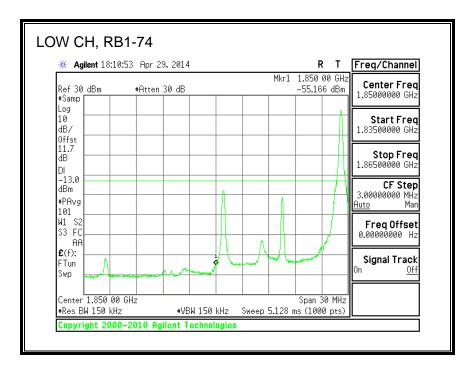
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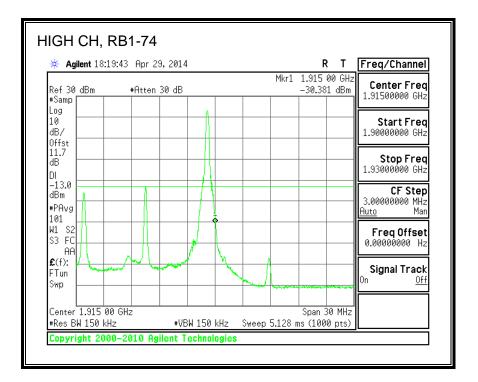
QPSK, (15.0 MHz BAND WIDTH)





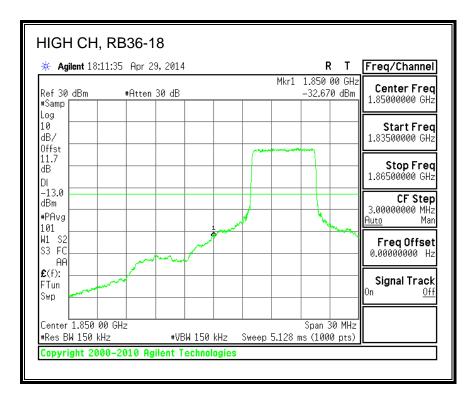
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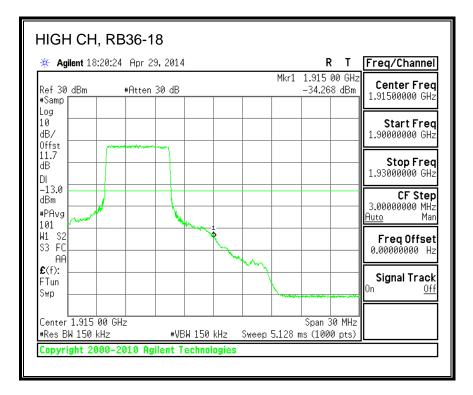




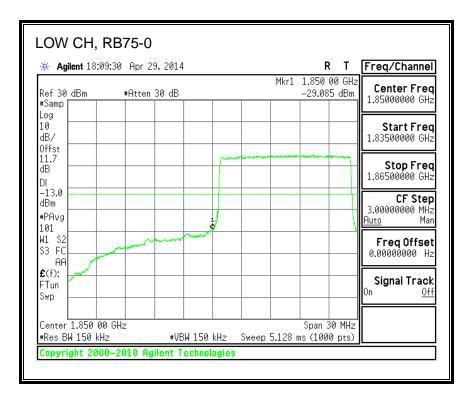
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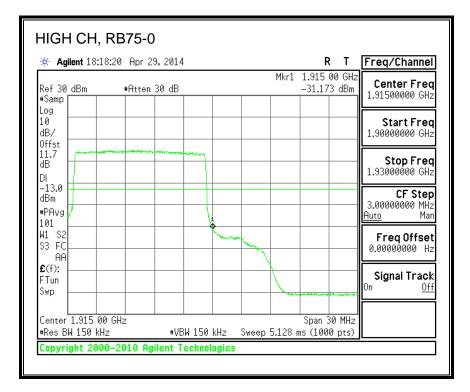
FORM NO: CCSUP4701J FAX: (510) 661-0888





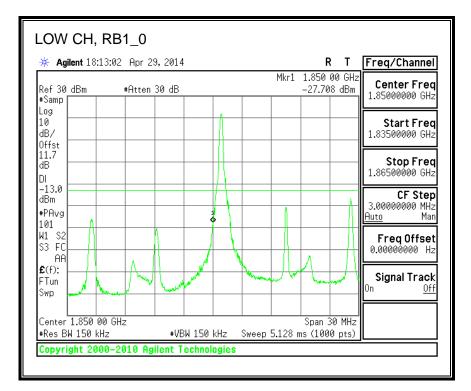
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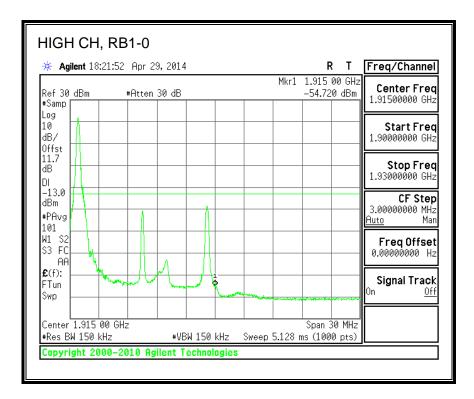




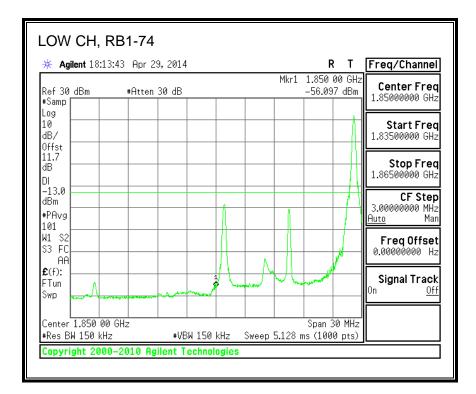
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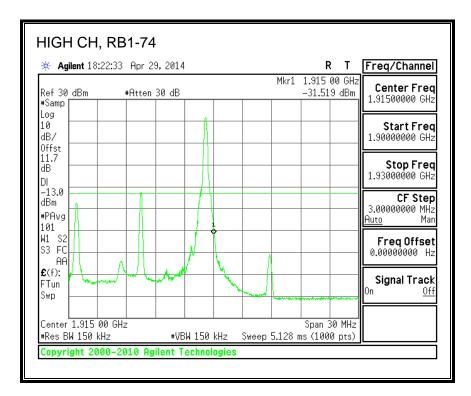
16QAM, (15.0 MHz BAND WIDTH)





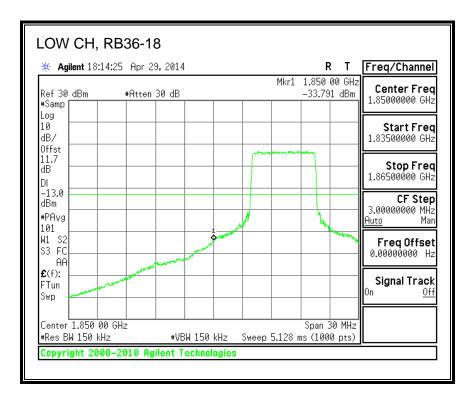
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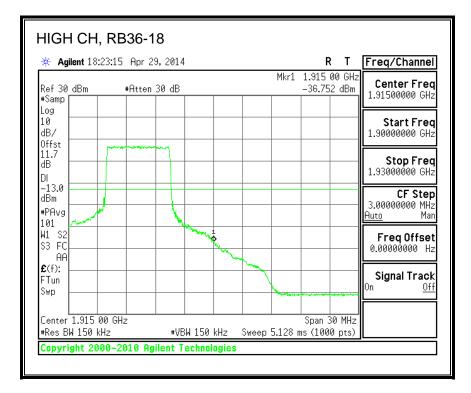




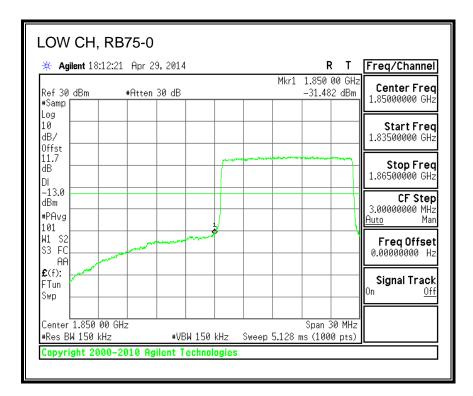
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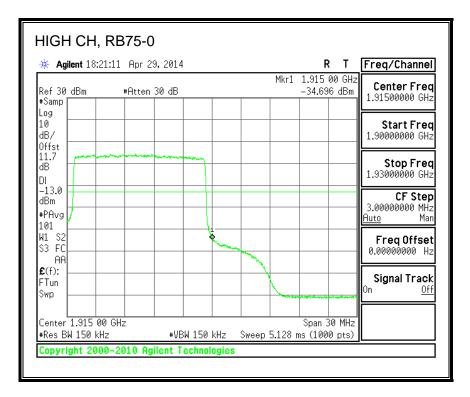
FAX: (510) 661-0888





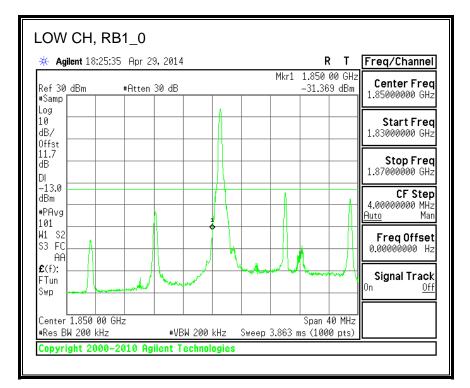
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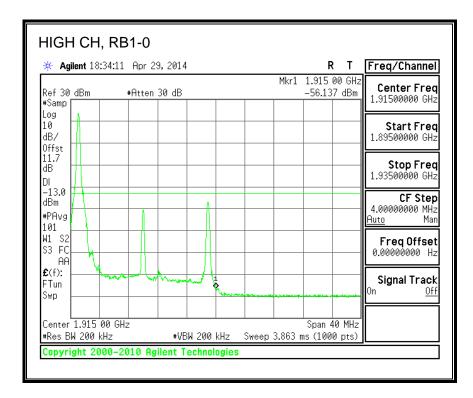




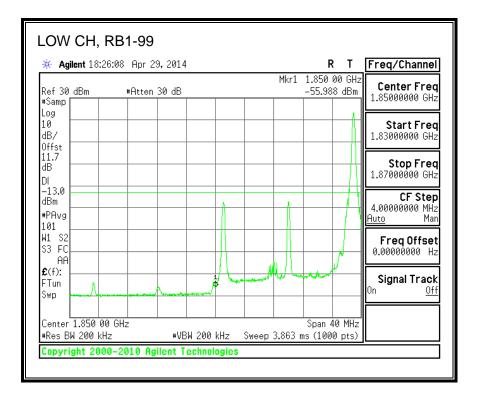
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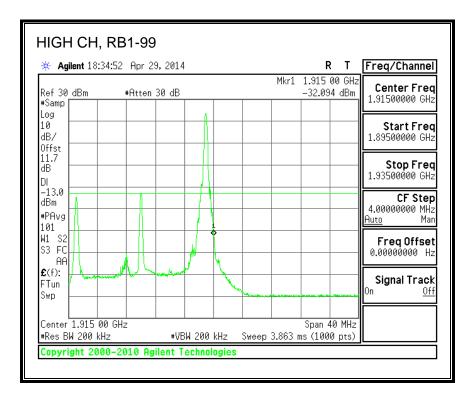
QPSK, (20.0 MHz BAND WIDTH)



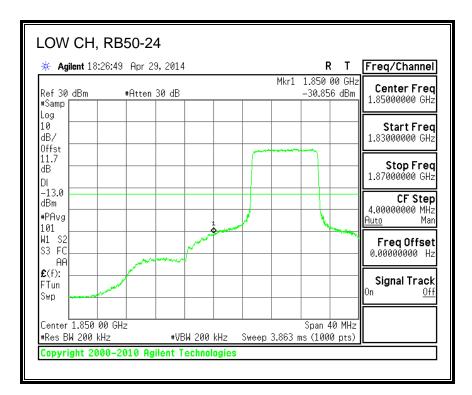


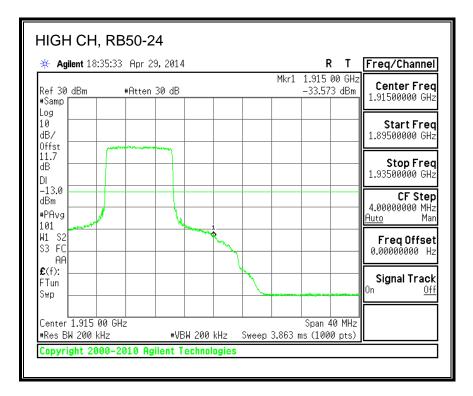
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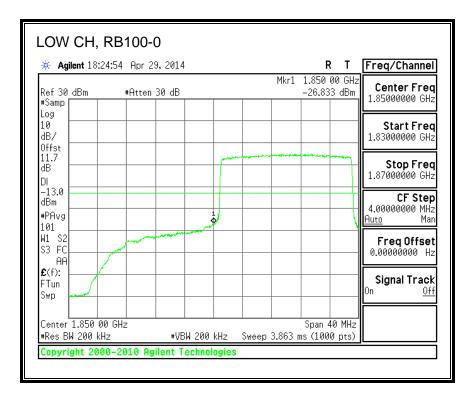


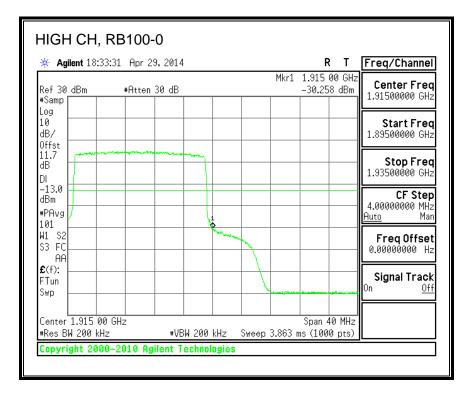
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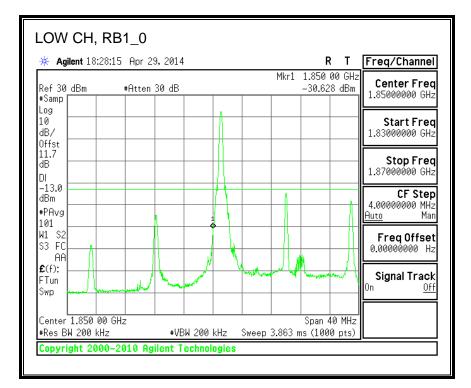
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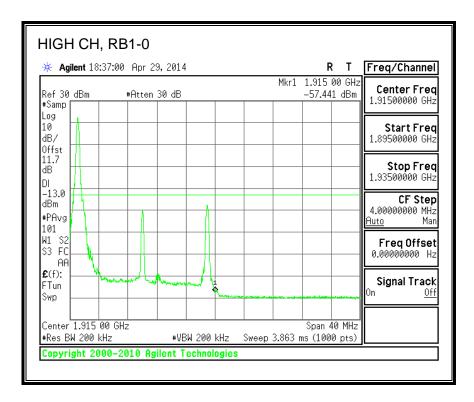




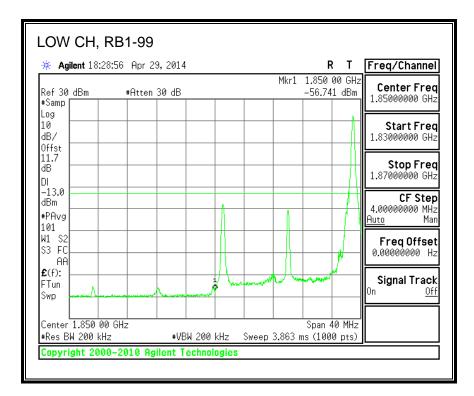
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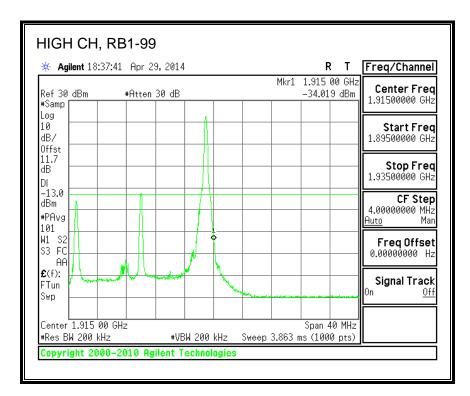
16QAM, (20.0 MHz BAND WIDTH)



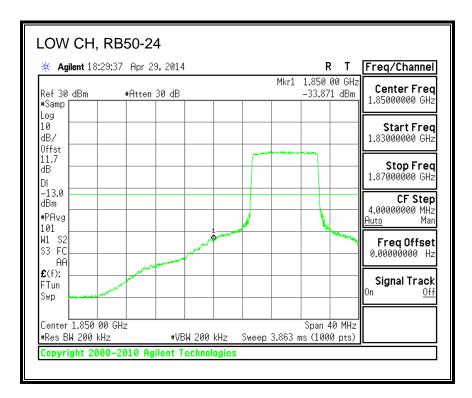


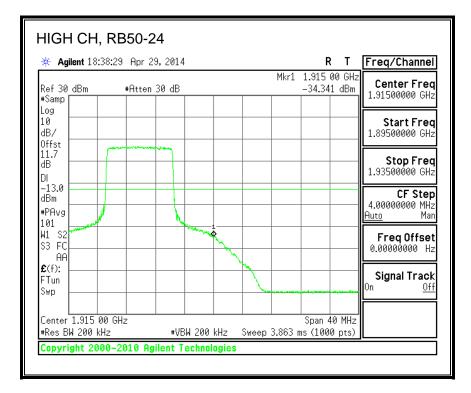
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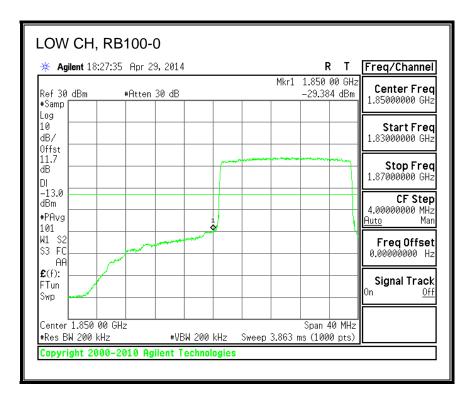


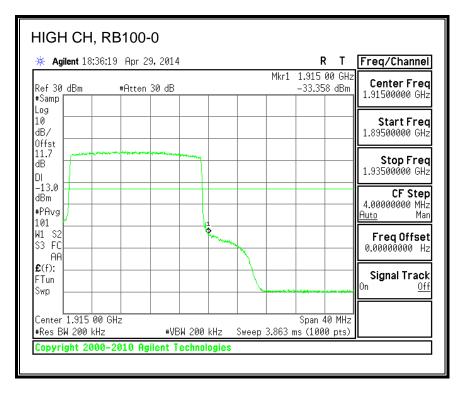
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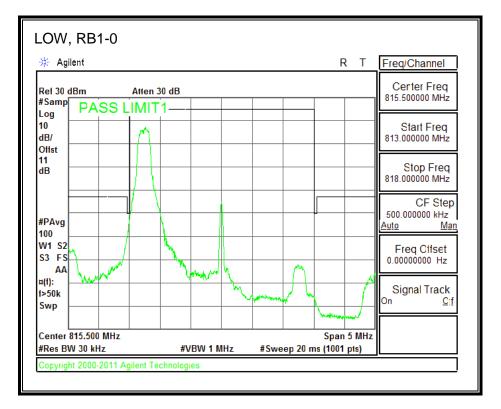


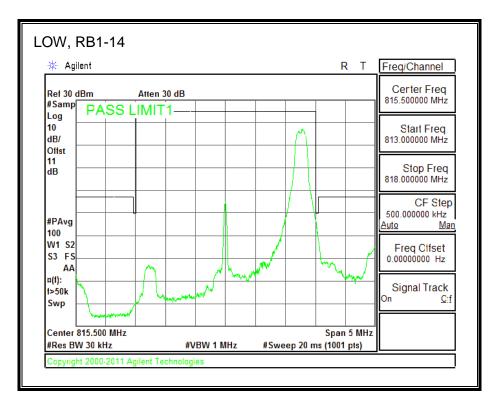


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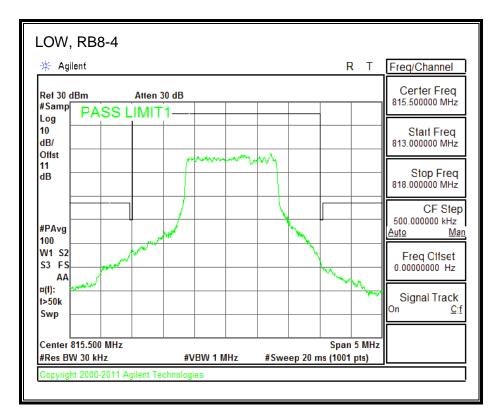
8.2.7. LTE BAND 26 EMISSION MASK

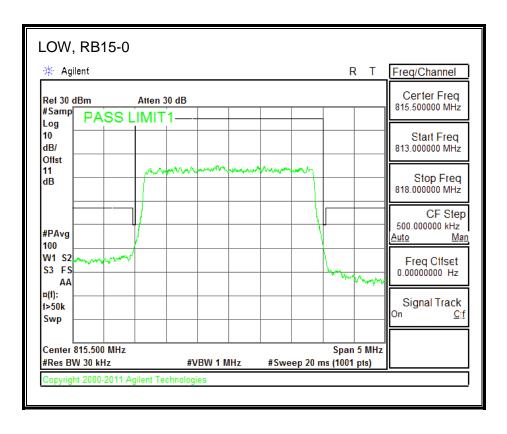
QPSK, (3.0 MHz BAND WIDTH)





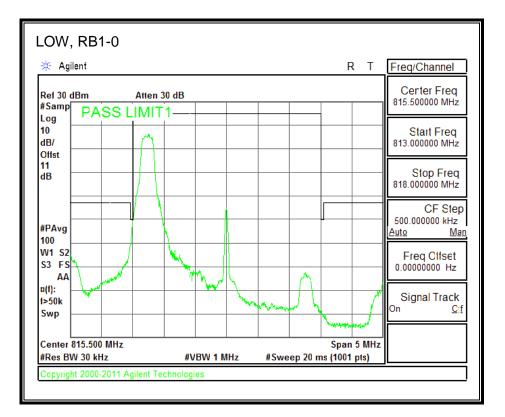
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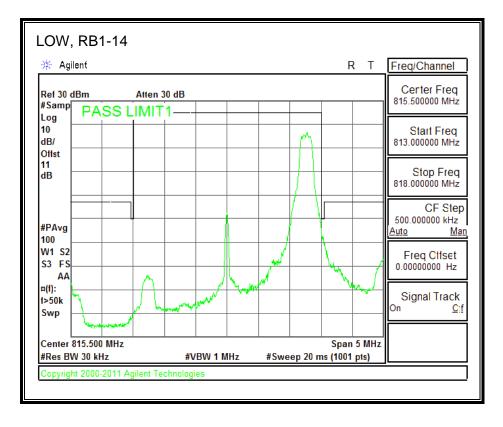




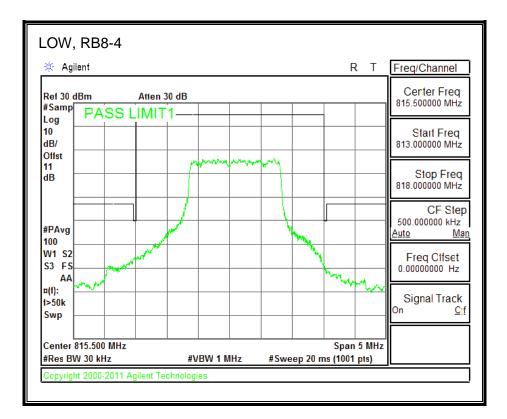
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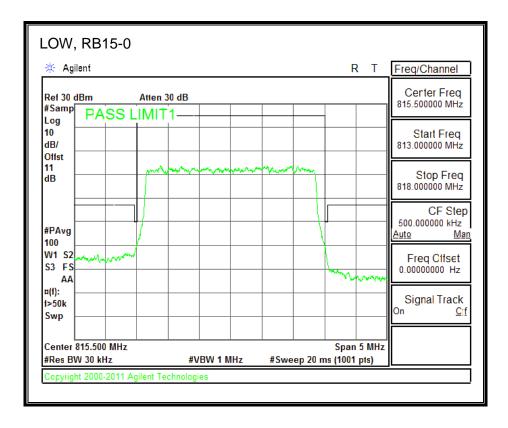
16QAM, (3.0 MHz BAND WIDTH)





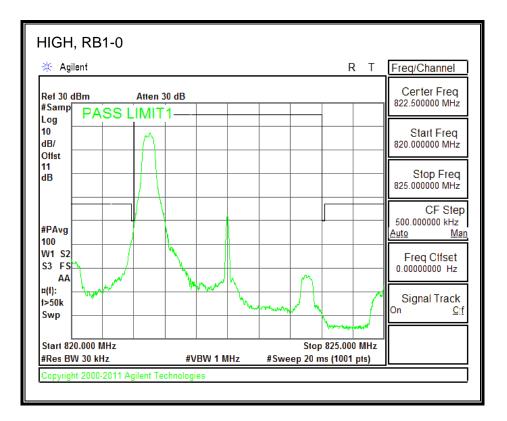
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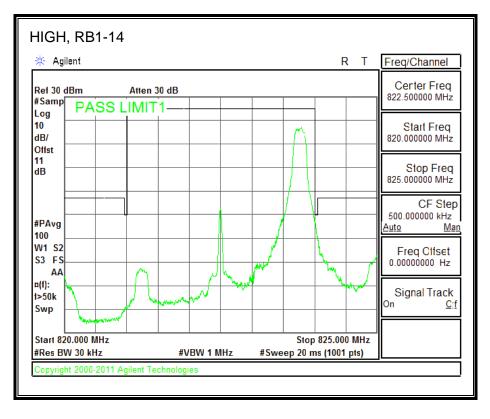




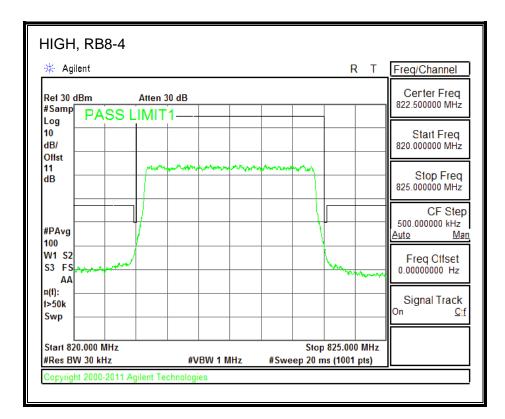
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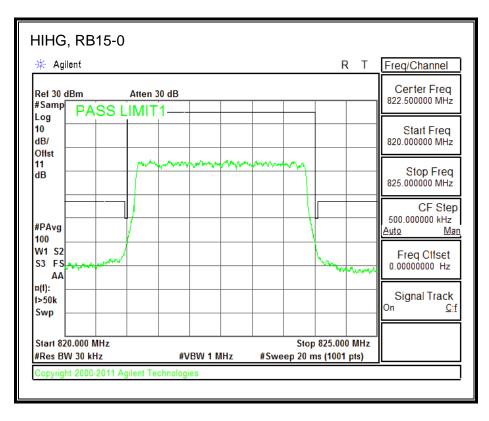
QPSK, (3.0 MHz BAND WIDTH)





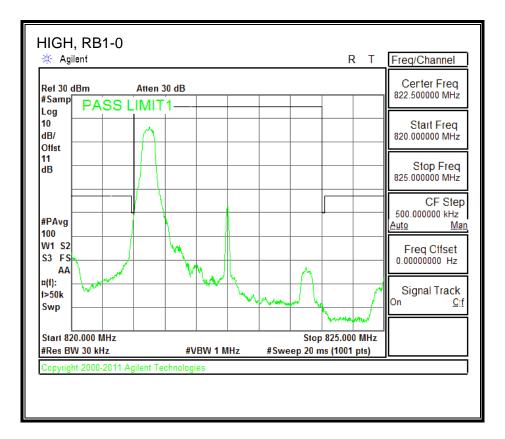
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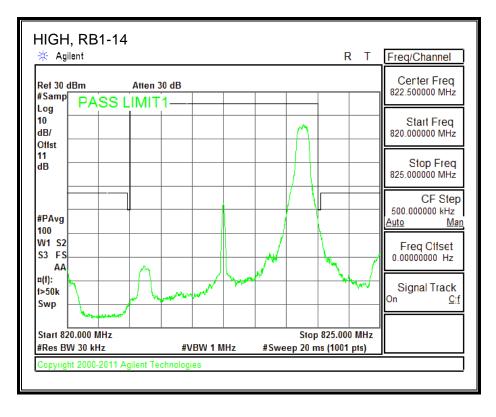




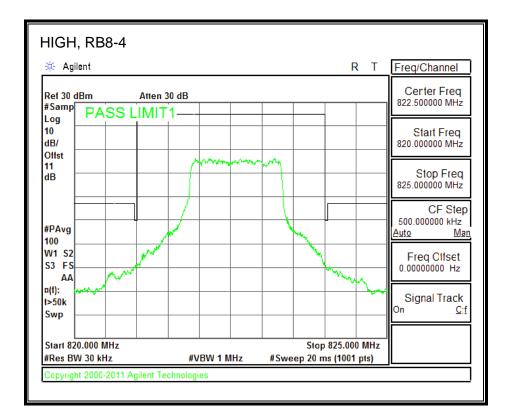
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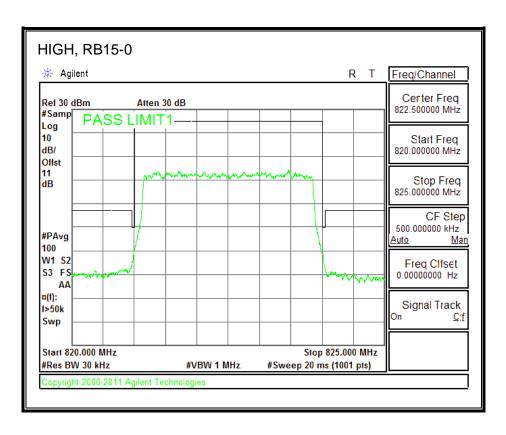
16QAM, (3.0 MHz BAND WIDTH)





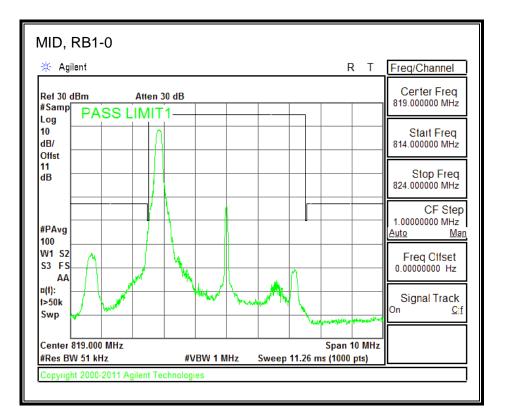
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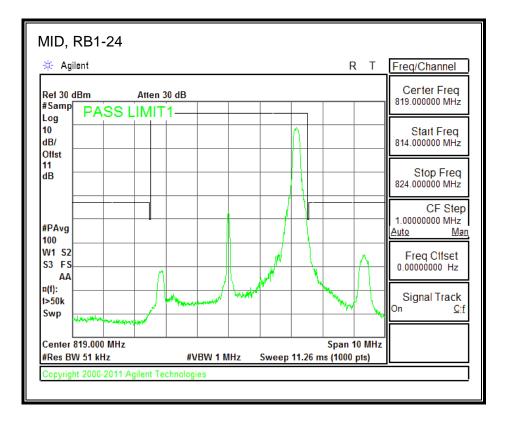




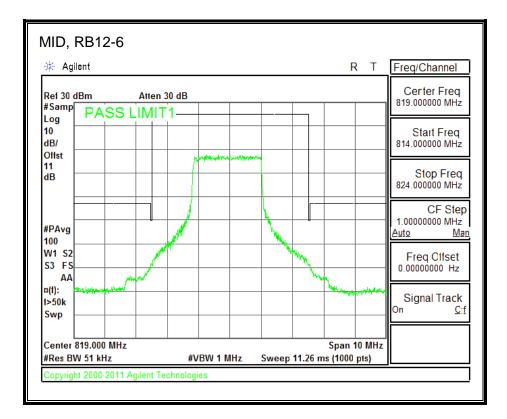
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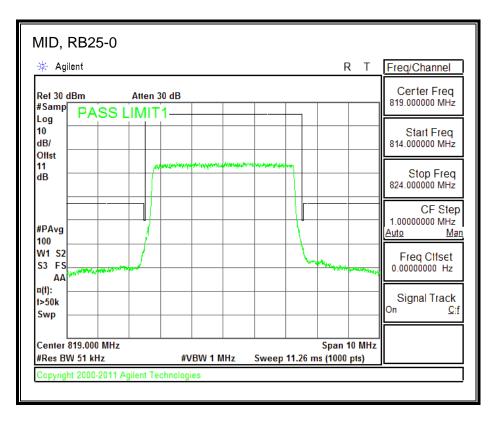
QPSK, (5.0 MHz BAND WIDTH)





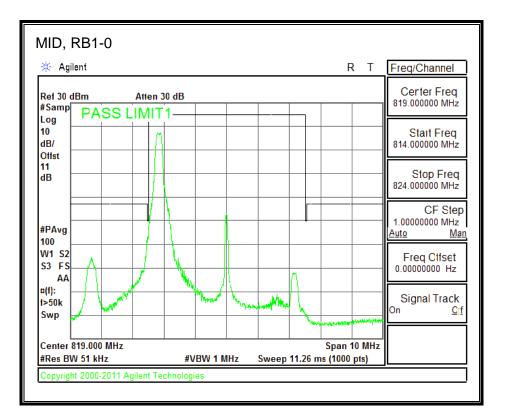
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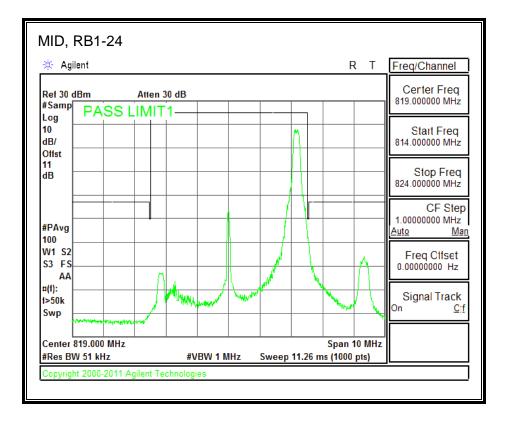




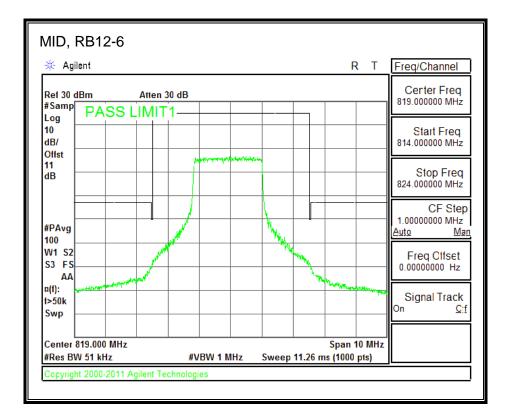
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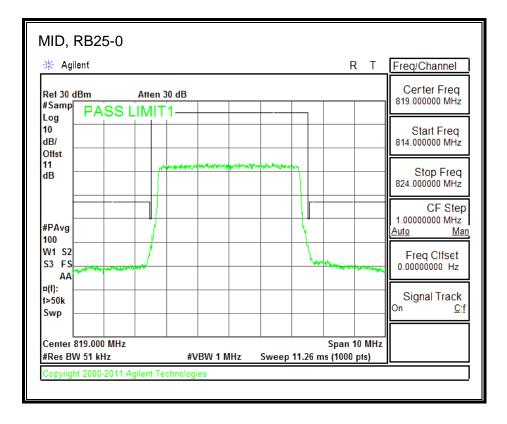
16QAM, (5.0 MHz BAND WIDTH)





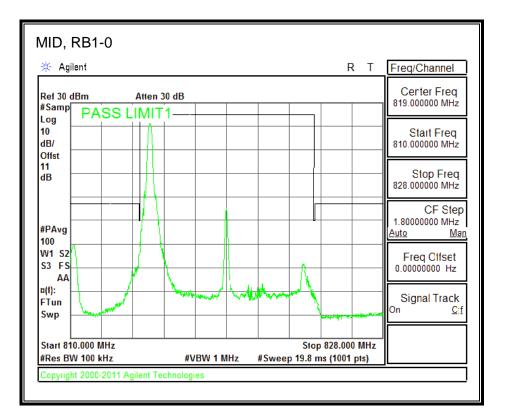
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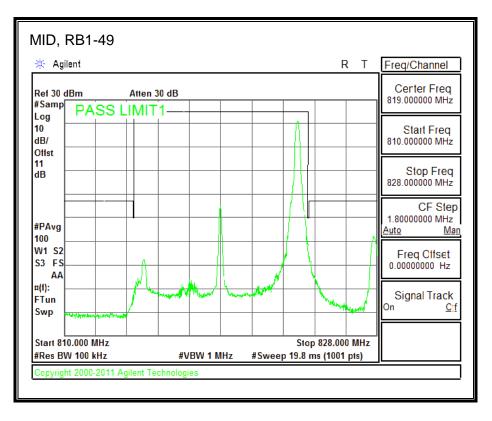




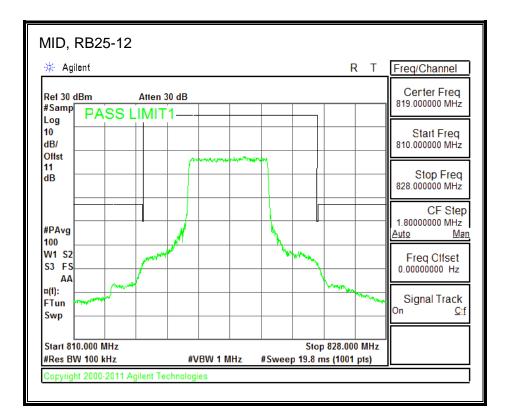
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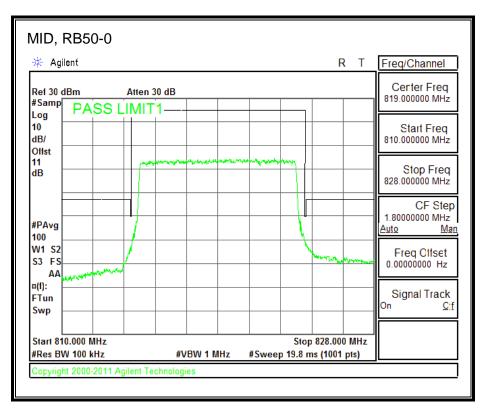
QPSK, (10.0 MHz BAND WIDTH)





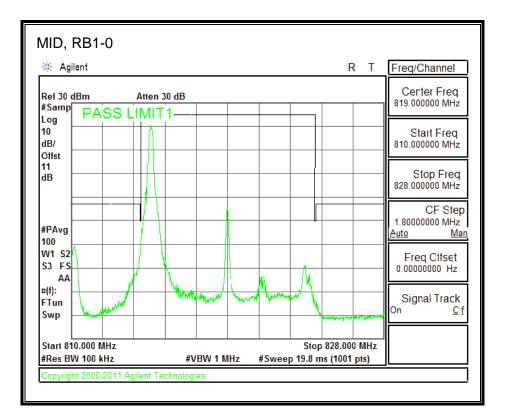
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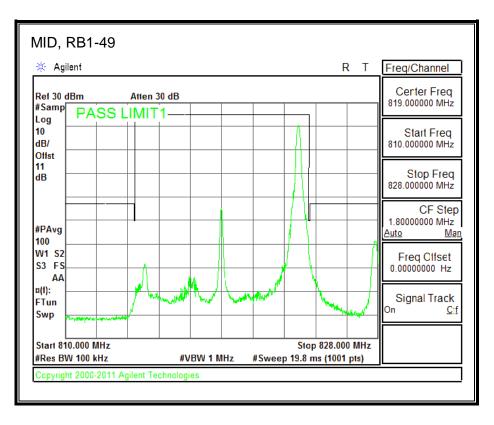




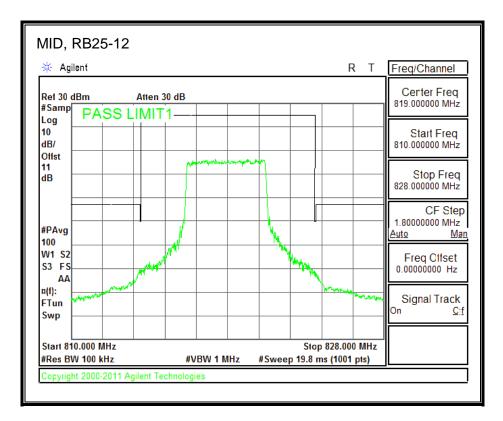
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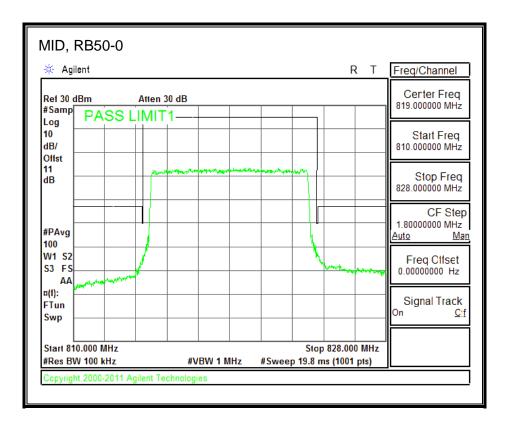
16QAM, (10.0 MHz BAND WIDTH)





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8.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238 and §27.53

<u>LIMITS</u>

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

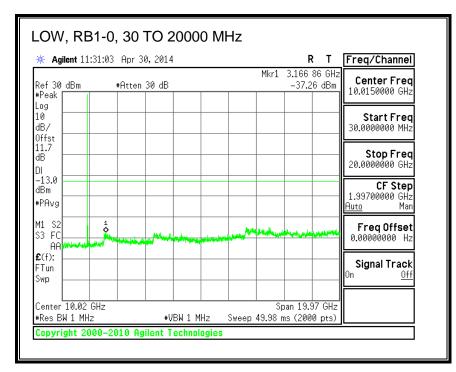
MODES TESTED

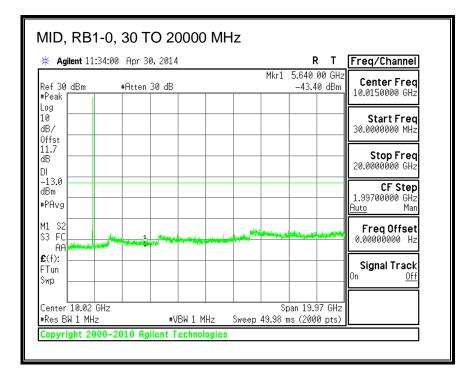
- Band 2
- Band 4
- Band 5
- Band 13
- Band 17
- Band 25
- Band 26

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8.3.1. LTE BAND 2

QPSK, (1.4 MHz BAND WIDTH)

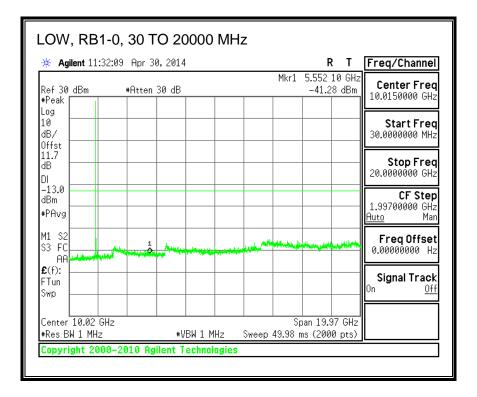




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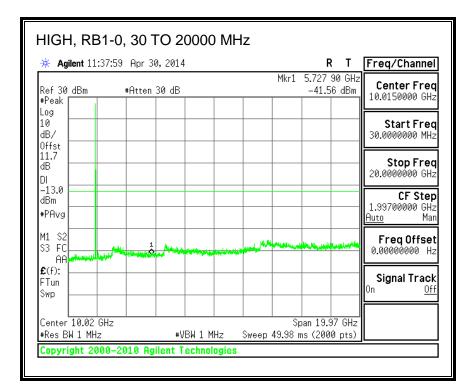
🔅 Agile	nt 11:36	:55 Apr	30, 2014	•				R	-	Freq/Channe
Ref 30 d #Peak Γ	Bm	#Atte	n 30 dB	1	1	1	Mkr1	5.727 : -41.9	90 GHz 0 dBm	Center Fred 10.0150000 GHz
Log 10 dB/ Offst										Start Fred 30.0000000 MHz
11.7 dB –		_								Stop Fred 20.0000000 GHz
-13.0 dBm #PAvg										CF Step 1.99700000 GHz <u>Auto</u> Mar
M1 S2 S3 FC			1 Shun	1		a langth of	t idescip, <u>si</u> t	والمرادان	h. La ser de ma	Freq Offset 0.00000000 Hz
€(f): FTun Swp										Signal Track On <u>Of</u> i
Center 1 #Res BW		z	#5	 	1Hz	Sween) Dan 19.9 NS (2004		

16QAM, (1.4 MHz BAND WIDTH)



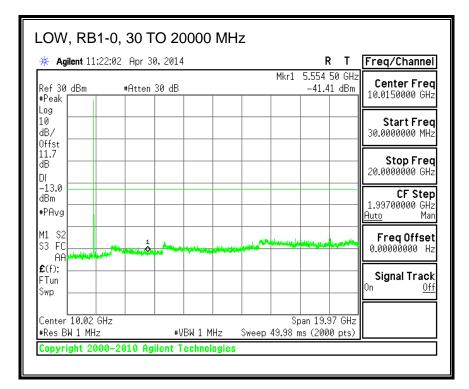
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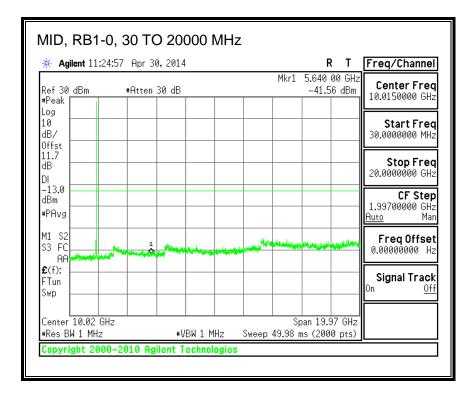
🔆 Agiler	it 11:35:02	Apr 30,	2014				F		Freq/Channe
Ref 30 dE #Peak	3m	#Atten 3) dB			Mkr1		00 GHz '8 dBm	Center Fred 10.0150000 GHz
Log 10 dB/ Offst									Start Frec 30.0000000 MHz
11.7 dB DI -13.0									Stop Fred 20.0000000 GHz
dBm #PAvg									CF Step 1.99700000 GHz <u>Auto</u> Mar
M1 S2 S3 FC AA	Rent of Lawy days	1	Marine and and a	rada taka karanga	harden and the state	and the second second	an a	sheen the	Freq Offset 0.00000000 Hz
£(f): FTun Swp									Signal Track ^{On <u>Of</u>}
Center 10 #Res BW :			#VBW 1	MHz	Sweep) an 19.9 ns (200		



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QPSK, (3.0 MHz BAND WIDTH)

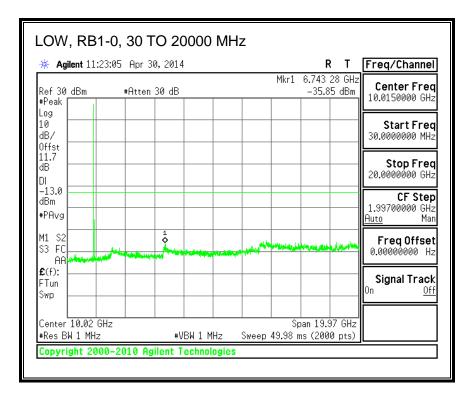




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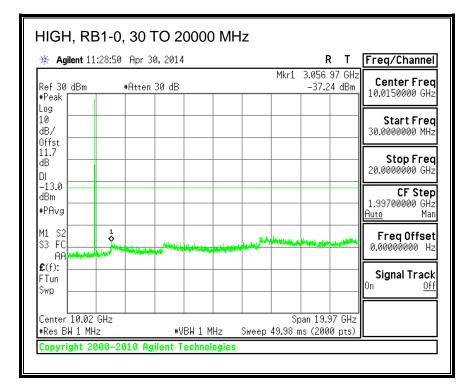
🔆 Agilent 11:	∠7.J⊍ ⊓µI .	50,2014				R		Freq/Channel
Ref 30 dBm #Peak	#Atter	1 30 dB			Mkr1	6.863 1 -36.60		Center Fred 10.0150000 GHz
Log 10 dB/ 0ffst								Start Frec 30.0000000 MHz
11.7 dB DI								Stop Fred 20.0000000 GHz
-13.0 dBm #PAvg								CF Step 1.99700000 GHz <u>Auto</u> Mar
M1 S2 S3 FC AA	Alan a state and a state of the		etter Augureund	and an and the second	a second second	alla di secola	a matilia da da da	Freq Offset 0.00000000 Hz
£(f): FTun Swp								Signal Track ^{On <u>Of</u>l}
Center 10.02 #Res BW 1 MHz			I 1 MHz			an 19.9 Is (2000		

16QAM, (3.0 MHz BAND WIDTH)



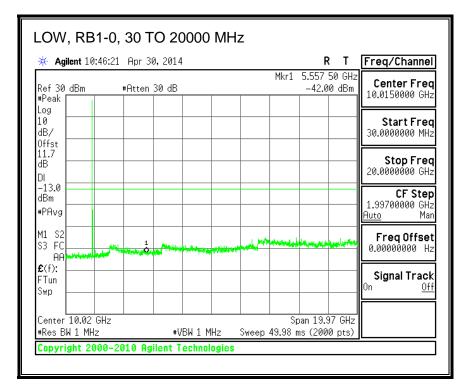
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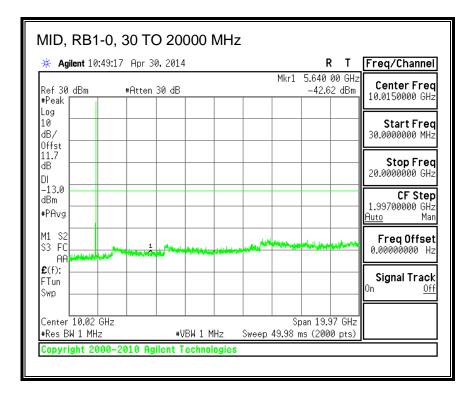
🔆 Agilent	11:26:01	Hpr 30	,2014						<u>} T</u>	Freq/Channe
Ref 30 dB ≢Peak [m	#Atten 3	30 dB				Mkr1		00 GHz 30 dBm	Center Fred 10.0150000 GH:
Log 10 dB/ 0ffst										Start Fred 30.0000000 MH;
11.7 dB DI										Stop Fred 20.0000000 GHz
-13.0 dBm #PAvg										CF Step 1.99700000 GHz <u>Auto</u> Mar
M1 S2 S3 FC AA		1	-		dindantere	about the factor	فاحتباغهرو	adders plat	a na kana ka	Freq Offset 0.00000000 Hz
£(f): FTun Swp										Signal Track On <u>Of</u>
Center 10 #Res BW 1			#VB	W 1 M	Hz	Sweep			97 GHz 0 pts)	



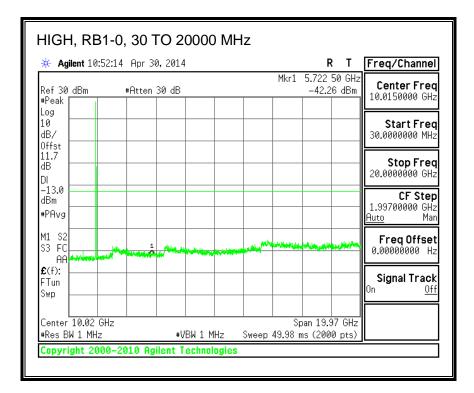
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QPSK, (5.0 MHz BAND WIDTH)

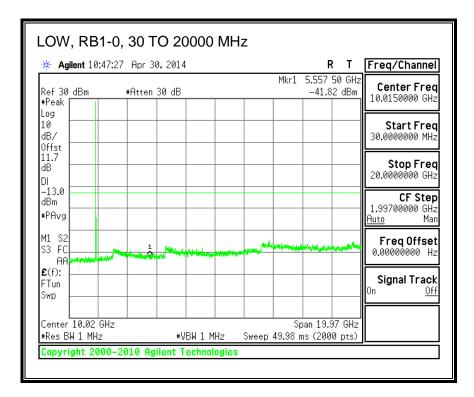




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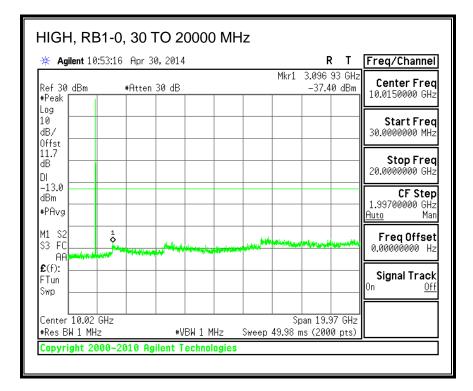


16QAM, (5.0 MHz BAND WIDTH)



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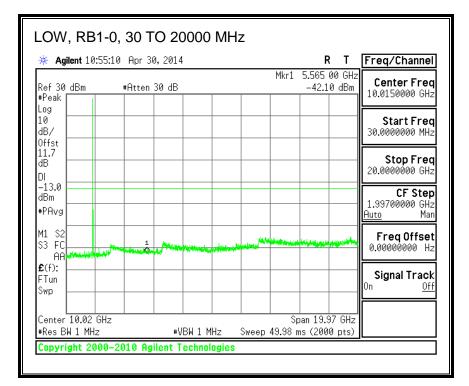
🔆 Ag	ilent 10	:50:20	Apr 3	0,2014					R		Freq/Channel
Ref 30 #Peak	dBm		#Atten	30 dB				Mkr1	3.096 -36.9	93 GHz 8 dBm	Center Fred 10.0150000 GHz
+reak Log 10 dB/ Offst											Start Fred 30.0000000 MH2
11.7 dB DI											Stop Fred 20.0000000 GHz
−13.0 dBm #PAvg											CF Step 1.99700000 GHz <u>Auto</u> Mar
M1 S2 S3 FC AA	ad the state of the		an Antonipus Lyin	will show the second	-		LANKIN MA	aline benderand		al la frankrike	Freq Offset 0.00000000 Hz
£ (f): FTun Swp											Signal Track On <u>Off</u>
Center #Res B	10.02 W 1 MH			 #\/	 	1Hz	Sweep) an 19.9 ns (200		

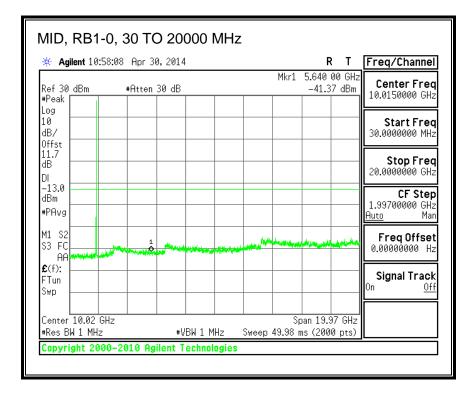


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FORM NO: CCSUP4701J FAX: (510) 661-0888

QPSK, (10.0 MHz BAND WIDTH)

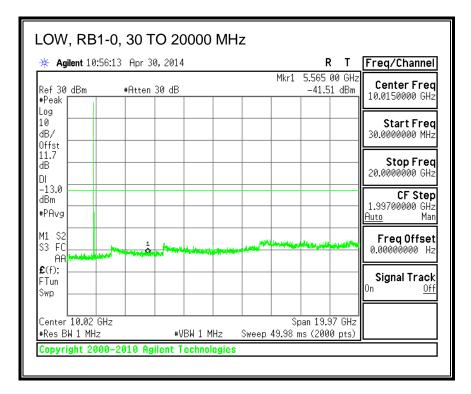




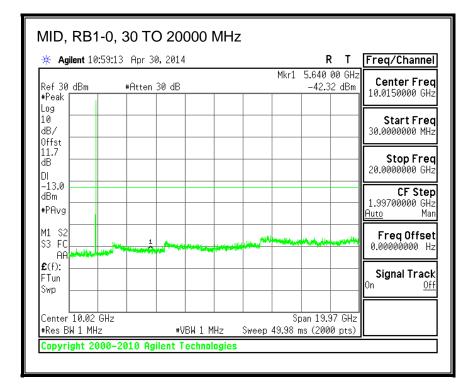
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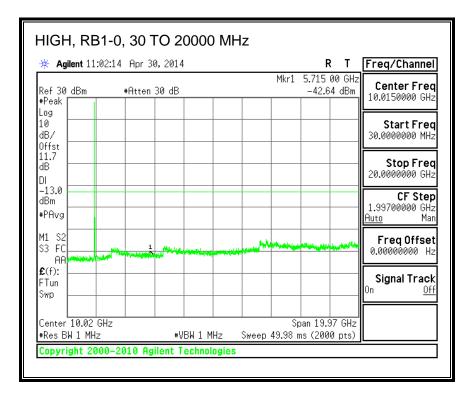
🔆 Agilent 11:0	01:07 Apr 3	0,2014				F	· ·	Freq/Channel
Ref 30 dBm #Peak	#Atten	30 dB			Mkr1		00 GHz 1 dBm	Center Freq 10.0150000 GHz
Log 10 dB/ Offst								Start Freq 30.0000000 MHz
11.7 dB DI								Stop Freq 20.0000000 GHz
-13.0 dBm #PAvg								CF Step 1.99700000 GHz <u>Auto</u> Man
M1 S2 S3 FC AA		HUP MARKAN AN AND	****	and the procession	Hannadala	leader the state of the state		Freq Offset 0.00000000 Hz
£(f): FTun Swp								Signal Track On <u>Off</u>
Center 10.02 G #Res BW 1 MHz)Hz	#VBW 1	MHz	Sweep 4			97 GHz 0 pts)	

16QAM, (10.0 MHz BAND WIDTH)



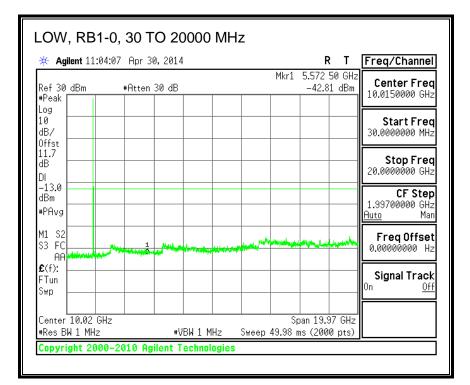
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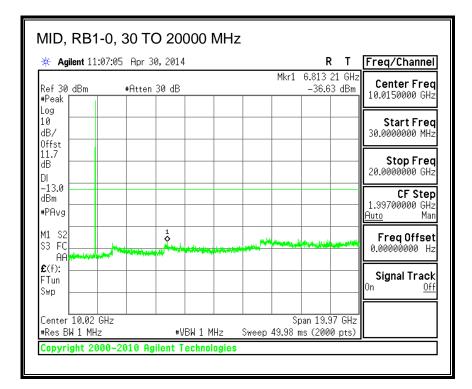




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QPSK, (15.0 MHz BAND WIDTH)





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