OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average	Peak
Banuwiutn		Frequency	wode	Size	Offset	(dBm)	(dBm)
				1	0	21.2	24.5
				1	24	21.3	24.7
				1	49	20.9	25.4
			QPSK	25	0	20.2	24.7
				25	12	20.5	25.0
				25	24	20.6	25.2
10.0	00000	4055.0		50	0	20.6	25.7
10.0	26090	1855.0		1	0	20.2	24.4
				1	24	20.5	24.7
			1	49	20.4	25.7	
		16QAM	25	0	19.3	24.7	
			25	12	19.6	25.0	
				25	24	19.7	25.2
				50	0	19.5	25.3
				1	0	21.0	24.3
		1882.5		1	24	21.3	24.8
				1	49	21.1	25.8
			QPSK	25	0	20.3	24.8
				25	12	20.8	25.3
	26365			25	24	20.9	25.7
10.0				50	0	20.7	25.7
10.0			16QAM	1	0	20.5	24.6
				1	24	20.2	24.8
				1	49	20.3	25.0
				25	0	19.6	25.0
				25	12	19.8	25.2
				25	24	19.8	25.4
				50	0	19.7	25.7
				1	0	21.0	25.1
				1	24	21.3	25.1
				1	49	20.1	23.5
			QPSK	25	0	20.8	25.5
				25	12	20.7	25.2
				25	24	20.1	24.7
10.0	26640	1910.0		50	0	20.8	25.6
10.0	20040	1910.0		1	0	20.2	25.1
				1	24	20.3	25.1
				1	49	19.4	23.6
			16QAM	25	0	20.0	25.6
				25	12	19.9	25.3
				25	24	19.7	25.0
				50	0	19.8	25.7

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OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth	UL Channel	Fraguanay	Mode	RB	RB	Average	Peak
Bandwidth		Frequency	wode	Size	Offset	(dBm)	(dBm)
				1	0	21.2	24.5
				1	37	21.3	25.2
				1	74	21.0	25.9
			QPSK	36	0	20.3	25.0
				36	16	20.8	25.4
				36	35	20.8	25.7
15.0	00115	1857.5		75	0	20.9	26.3
15.0	26115	C.1691		1	0	20.3	24.4
				1	37	20.4	25.2
			1	74	20.5	26.3	
		16-QAM	36	0	19.4	24.9	
			36	16	19.9	25.4	
				36	35	19.9	25.7
				75	0	19.8	26.0
				1	0	21.1	24.4
				1	37	21.3	24.9
		1882.5		1	74	21.3	26.1
			QPSK	36	0	20.3	24.8
				36	16	20.9	25.3
	26365			36	35	21.0	25.8
15.0				75	0	20.9	26.1
15.0			16-QAM	1	0	20.6	24.7
				1	37	20.3	24.9
				1	74	20.4	26.3
				36	0	19.6	24.9
				36	16	19.7	25.2
				36	35	19.9	25.6
				75	0	19.9	26.1
				1	0	21.2	24.5
				1	37	21.1	25.6
				1	74	20.2	23.5
			QPSK	36	0	20.6	25.3
				36	16	20.8	25.5
				36	35	20.5	25.0
15.0	26615	1907.5		75	0	20.7	26.0
13.0	20015	1907.5		1	0	20.2	24.5
				1	37	20.4	25.5
				1	74	19.3	23.6
			16-QAM	36	0	19.8	25.4
				36	16	19.9	25.6
				36	35	20.1	25.5
				75	0	19.7	26.1

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OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth	UL Channel	Fraguanay	Mode	RB	RB	Average	Peak
Bandwidth		Frequency	wode	Size	Offset	(dBm)	(dBm)
				1	0	21.1	24.5
				1	49	21.2	25.8
				1	99	20.2	25.4
			QPSK	50	0	20.6	25.2
				50	24	21.0	25.8
				50	49	20.8	25.7
20.0	26140	1960.0		100	0	21.1	26.1
20.0	26140	1860.0		1	0	20.1	24.4
				1	49	20.4	25.3
			1	99	20.4	25.8	
		16-QAM	50	0	19.7	25.2	
			50	24	20.1	25.9	
				50	49	19.8	25.8
				100	0	20.2	26.0
				1	0	21.1	24.7
				1	49	21.3	24.9
		26365 1882.5		1	99	21.2	26.1
			QPSK	50	0	20.4	24.8
				50	24	20.9	25.5
				50	49	21.1	26.0
20.0	26365			100	0	21.0	26.2
20.0			16-QAM	1	0	20.6	25.0
				1	49	20.3	24.9
				1	99	20.5	25.4
				50	0	19.5	24.9
				50	24	19.9	25.5
				50	49	20.0	25.8
				100	0	20.0	26.0
				1	0	21.1	25.3
				1	49	21.4	25.1
				1	99	20.2	23.5
			QPSK	50	0	20.5	25.3
				50	24	20.7	25.6
				50	49	20.7	25.3
20.0	26590	1905.0		100	0	20.6	26.0
20.0	20090	1905.0		1	0	20.1	24.4
				1	49	20.2	24.4
				1	99	19.9	23.7
			16-QAM	50	0	19.7	25.3
				50	24	19.8	25.6
				50	49	20.1	25.7
				100	0	19.9	26.1

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7.4.9. LTE BAND 26

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

D en ek vielt k		F	Madulation	RB	RB	Average	Peak
Bandwidth	UL Channel	Frequency	Modulation	Size	Offset	(dBm)	(dBm)
				1	0	22.1	27.1
				1	2	22.1	26.9
				1	5	21.8	26.8
			QPSK	3	0	22.0	27.1
				3	1	22.0	27.2
				3	2	21.8	26.9
4.4	00007	014 7		6	0	20.9	26.4
1.4	26697	814.7		1	0	20.9	26.7
				1	2	21.0	26.7
			1	5	21.0	26.9	
			16QAM	3	0	20.9	27.1
				3	1	21.0	27.1
				3	2	20.8	26.9
				6	0	20.0	26.5
				1	0	21.9	26.7
				1	2	22.1	26.7
		819.0		1	5	22.0	26.9
			QPSK	3	0	22.3	27.3
			16QAM	3	1	22.3	27.5
	26740			3	2	22.3	27.5
1.4				6	0	20.8	25.6
1.4				1	0	21.6	26.8
				1	2	21.4	26.6
				1	5	21.3	26.7
				3	0	21.4	27.5
				3	1	21.3	27.4
				3	2	21.3	27.3
				6	0	20.4	26.8
				1	0	21.8	26.7
				1	2	22.0	26.8
				1	5	21.8	26.8
			QPSK	3	0	21.7	27.1
				3	1	21.8	27.1
				3	2	21.8	27.1
1.4	26783	823.3		6	0	20.7	26.4
1.4	20700	020.0		1	0	21.1	26.9
				1	2	21.1	26.7
				1	5	21.1	27.0
			16QAM	3	0	20.7	26.9
				3	1	20.7	26.9
				3	2	20.9	27.1
				6	0	19.8	26.6

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth	UL Channel	Fraguanay	Modulation	RB	RB	Average	Peak
Bandwidth	OL Channel	Frequency	Modulation	Size	Offset	(dBm)	(dBm)
				1	0	21.9	26.8
				1	7	21.9	26.5
				1	14	21.7	26.5
			QPSK	8	0	20.8	26.0
				8	4	20.9	26.1
				8	7	20.7	25.9
2.0	00705	0455		15	0	20.8	26.3
3.0	26705	815.5		1	0	21.1	26.6
				1	7	21.2	26.7
			1	14	21.2	26.8	
		16QAM	8	0	20.0	26.0	
			8	4	20.1	26.0	
				8	7	19.8	25.7
				15	0	19.9	26.5
				1	0	21.7	25.1
				1	7	21.9	25.4
		819.0		1	14	22.0	26.7
	26740		QPSK	8	0	20.9	25.4
				8	4	21.1	25.8
				8	7	21.0	26.1
				15	0	21.0	26.2
3.0			16QAM	1	0	21.2	25.6
				1	7	21.1	25.9
				1	14	21.2	26.7
				8	0	20.2	25.5
				8	4	20.0	25.3
				8	7	20.0	25.9
				15	0	20.0	26.1
				1	0	21.9	26.7
				1	7	22.1	26.8
				1	14	21.8	26.6
			QPSK	8	0	20.8	26.0
				8	4	20.8	26.0
				8	7	20.7	26.0
2.0	06775	000 F		15	0	20.7	26.2
3.0	26775	822.5		1	0	21.1	26.7
				1	7	21.2	27.0
				1	14	21.1	26.8
			16QAM	8	0	19.9	25.9
				8	4	19.8	25.9
				8	7	20.0	26.1
				15	0	19.9	26.6

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OUTPUT POWER FOR LTE BAND 26 (5.0 MH)

Bandwidth	UL Channel	Fraguanay	Modulation	RB	RB	Average	Peak
Danuwiutn	OL Channel	Frequency	Modulation	Size	Offset	(dBm)	(dBm)
				1	0	22.0	27.0
				1	12	22.0	26.6
				1	24	21.8	26.6
			QPSK	12	0	21.0	26.0
				12	6	21.1	26.1
				12	11	20.9	25.8
5.0	00745	040 5		25	0	21.0	26.3
5.0	26715	816.5		1	0	21.1	26.7
			1	12	21.3	26.7	
			1	24	21.3	26.8	
		16QAM	12	0	20.1	25.9	
			12	6	20.2	25.7	
				12	11	19.9	25.1
				25	0	20.0	25.9
				1	0	21.8	26.2
				1	12	22.0	26.5
		819.0		1	24	21.9	26.8
	26740		QPSK	12	0	20.9	25.6
				12	6	21.1	26.0
				12	11	21.1	26.1
5.0				25	0	21.0	26.1
5.0			16QAM	1	0	21.5	26.4
				1	12	21.4	26.1
				1	24	21.6	27.1
				12	0	19.9	25.4
				12	6	19.9	25.6
				12	11	19.8	25.9
				25	0	19.8	26.2
				1	0	21.8	26.5
				1	12	22.1	26.9
				1	24	21.7	26.7
			QPSK	12	0	20.8	25.9
				12	6	20.9	26.0
				12	11	20.8	25.9
5.0	26765	821.5		25	0	20.8	26.9
5.0	26765	021.5		1	0	21.1	26.8
				1	12	21.1	26.8
				1	24	21.0	26.8
			16QAM	12	0	19.9	25.8
				12	6	19.9	25.8
				12	11	20.0	26.1
				25	0	19.8	26.6

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OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average	Peak
Danuwium		Frequency	wode	Size	Offset	(dBm)	(dBm)
				1	0	22.1	26.7
				1	24	22.0	26.7
			1	49	21.9	26.7	
		QPSK	25	0	20.8	25.9	
			25	12	21.1	25.8	
				25	24	20.7	26.0
10.0	26740	819.0		50	0	20.9	26.3
10.0	20740	019.0		1	0	21.3	26.6
				1	24	21.2	26.6
				1	49	21.1	26.6
			16QAM	25	0	20.1	25.5
			25	12	20.1	25.9	
			25	24	20.0	25.9	
				50	0	19.8	26.5

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7.4.10. LTE BAND 41

OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average	Peak
Bandwidth		riequency	wode	Size	Offset	(dBm)	(dBm)
				1	0	21.3	25.2
				1	12	21.2	25.8
				1	24	21.3	26.2
			QPSK	12	0	20.2	25.0
				12	6	20.3	25.2
				12	11	20.3	25.3
5.0	20075	2409 E		25	0	20.4	25.9
5.0	39675	2498.5		1	0	20.8	25.5
				1	12	20.5	25.9
				1	24	20.6	26.1
			16QAM	12	0	19.2	24.5
				12	6	19.2	24.7
				12	11	19.2	25.1
				25	0	19.2	25.5
				1	0	21.2	25.3
				1	12	21.0	25.8
		2593.0		1	24	21.3	26.2
			QPSK	12	0	20.3	25.2
				12	6	20.6	25.2
				12	11	20.3	25.3
5.0	40000			25	0	20.4	26.1
5.0	40620		16QAM	1	0	20.4	25.4
				1	12	20.5	25.8
				1	24	20.6	26.2
				12	0	19.2	24.5
				12	6	19.2	24.8
				12	11	19.2	25.1
				25	0	19.2	25.6
				1	0	21.2	25.4
				1	12	21.2	25.7
				1	24	21.3	26.2
			QPSK	12	0	20.2	24.9
				12	6	20.3	25.0
				12	11	20.3	25.3
5.0	41565	2687.5		25	0	20.4	26.3
5.0	41303	2007.3		1	0	20.7	25.6
				1	12	20.4	26.4
				1	24	20.6	26.2
			16QAM	12	0	19.2	24.8
				12	6	19.7	24.6
			12	11	19.2	25.2	
				25	0	19.5	25.6

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OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth	LIL Channel	Frequency	Mode	RB	RB	Average	Peak
Bandwidth	UL Channel	Frequency	wode	Size	Offset	(dBm)	(dBm)
				1	0	21.3	26.0
				1	24	21.1	25.8
				1	49	21.2	26.2
			QPSK	25	0	20.1	25.1
				25	12	20.3	25.2
				25	24	20.5	25.3
10.0	20700	2501.0		50	0	20.3	25.5
10.0	39700	2501.0		1	0	20.5	26.0
			1	24	20.5	25.9	
			1	49	20.3	26.0	
		16QAM	25	0	19.2	24.9	
			25	12	19.5	24.8	
				25	24	19.2	25.2
				50	0	19.2	25.6
				1	0	21.2	26.0
				1	24	21.2	25.9
			1	49	21.1	26.1	
			QPSK	25	0	20.1	25.1
				25	12	20.3	25.2
				25	24	20.2	25.8
10.0	40620	2502.0		50	0	20.2	25.6
10.0	40620	2593.0	16QAM	1	0	20.4	26.0
				1	24	20.5	25.9
				1	49	20.4	26.1
				25	0	19.1	24.6
				25	12	19.3	24.9
				25	24	19.1	25.2
				50	0	19.1	26.0
				1	0	21.2	26.0
				1	24	21.2	25.8
				1	49	21.2	26.1
			QPSK	25	0	20.1	25.0
				25	12	20.3	25.2
				25	24	20.2	25.3
10.0	11E 1O	2695.0		50	0	20.2	26.1
10.0	41540	2685.0		1	0	20.5	26.1
				1	24	20.5	26.0
				1	49	20.2	26.0
			16QAM	25	0	19.1	24.5
				25	12	19.3	25.0
				25	24	19.1	25.2
				50	0	19.1	25.7

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OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth	UL Channel	Fraguanay	Mode	RB	RB	Average	Peak
Danuwiutn		Frequency	wode	Size	Offset	(dBm)	(dBm)
				1	0	21.2	25.5
				1	37	21.2	25.6
				1	74	21.1	25.5
			QPSK	36	0	20.1	24.7
				36	16	20.1	25.4
				36	35	20.1	24.7
45.0	00705	0500 5		75	0	19.8	25.2
15.0	39725	2503.5		1	0	20.1	24.8
				1	37	20.0	24.3
			1	74	20.0	24.9	
		16-QAM	36	0	19.1	25.1	
			36	16	19.0	24.5	
				36	35	19.0	24.5
				75	0	18.8	24.6
				1	0	21.2	25.9
				1	37	21.2	26.3
		2593.0		1	74	21.2	26.2
			QPSK	36	0	20.1	25.4
				36	16	20.1	25.6
				36	35	20.2	25.3
15.0	40620			75	0	20.0	26.3
15.0	40620		16-QAM	1	0	20.2	25.8
				1	37	20.2	25.6
				1	74	20.1	25.2
				36	0	19.0	25.3
				36	16	19.0	25.5
				36	35	19.1	25.4
				75	0	19.0	25.2
				1	0	21.2	26.2
				1	37	21.2	25.8
				1	74	21.1	26.3
			QPSK	36	0	20.1	25.6
				36	16	20.2	25.7
				36	35	20.2	25.8
15.0	41515	2682.5		75	0	20.1	26.3
15.0 41	71010	2002.0		1	0	20.3	25.8
				1	37	20.1	26.0
				1	74	20.0	26.2
			16-QAM	36	0	19.0	25.5
				36	16	19.1	25.5
				36	35	19.2	25.0
				75	0	19.0	26.2

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OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Donduidth	LIL Channel		Mode	RB	RB	Average	Peak
Bandwidth	UL Channel	Frequency	wode	Size	Offset	(dBm)	(dBm)
				1	0	21.4	25.2
				1	49	21.5	25.1
				1	99	21.4	25.7
			QPSK	50	0	20.2	24.1
				50	24	20.4	24.5
				50	49	20.4	24.8
00.0	00750	0500.0		100	0	20.0	25.2
20.0	39750	2506.0		1	0	20.2	25.8
				1	49	20.4	24.8
			1	99	20.3	24.7	
		16-QAM	50	0	19.1	24.0	
			50	24	19.3	24.6	
				50	49	19.3	24.7
				100	0	19.0	24.6
				1	0	21.2	26.0
				1	49	21.2	26.1
		2593.0		1	99	21.2	25.6
			QPSK	50	0	20.1	25.3
				50	24	20.1	24.8
				50	49	20.0	24.7
20.0	40620			100	0	20.0	25.7
20.0	40620	2593.0		1	0	20.1	24.8
			16-QAM	1	49	20.0	24.2
				1	99	20.2	24.6
				50	0	19.0	24.5
				50	24	19.1	24.3
				50	49	18.9	24.4
				100	0	18.9	24.8
				1	0	21.2	26.1
				1	49	21.4	25.9
				1	99	21.4	26.0
			QPSK	50	0	20.0	25.0
				50	24	20.3	24.9
				50	49	20.4	24.5
20.0	41490	2680.0		100	0	20.2	25.4
20.0	41490	2000.0		1	0	20.0	24.8
				1	49	20.2	25.0
				1	99	20.4	25.7
			16-QAM	50	0	18.9	24.8
				50	24	19.2	24.6
				50	49	19.4	24.6
				100	0	19.2	25.3

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8. CONDUCTED TEST RESULTS

8.1. OCCUPIED BANDWIDTH (MODEL: A1633)

RULE PART(S)

FCC: §2.1049

<u>LIMITS</u>

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41

RESULTS

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	1880	1.0797	1.175
	1.4 MHz BAND 16QAM	6/0	1880	1.0702	1.163
	3.0 MHz BAND QPSK	15/0	1880	2.6646	2.882
	3.0 MHz BAND 16QAM	15/0	1880	2.6436	2.748
	5.0 MHz BAND QPSK	25/0	1880	4.4804	4.578
	5.0 MHz BAND 16QAM	25/0	1880	4.4845	4.687
LTE BAND 2	10.0 MHz BAND QPSK	50/0	1880	8.8191	9.437
	10.0 MHz BAND 16QAM	50/0	1880	8.8727	9.185
	15.0 MHz BAND QPSK	75/0	1880	13.3649	13.861
	15.0 MHz BAND 16QAM	75/0	1880	13.3351	13.829
	20.0 MHz BAND QPSK	100/0	1880	17.874	18.867
	20.0 MHz BAND 16QAM	100/0	1880	17.6003	18.224

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	1732.5	1.0942	1.22
	1.4 MHz BAND 16QAM	6/0	1732.5	1.0764	1.159
	3.0 MHz BAND QPSK	15/0	1732.5	2.6816	2.759
	3.0 MHz BAND 16QAM	15/0	1732.5	2.676	2.825
	5.0 MHz BAND QPSK	25/0	1732.5	4.4462	4.599
	5.0 MHz BAND 16QAM	25/0	1732.5	4.4767	4.628
LTE BAND 4	10.0 MHz BAND QPSK	50/0	1732.5	8.7197	9.218
	10.0 MHz BAND 16QAM	50/0	1732.5	8.7045	9.171
	15.0 MHz BAND QPSK	75/0	1732.5	13.2828	13.718
	15.0 MHz BAND 16QAM	75/0	1732.5	13.3141	13.738
	20.0 MHz BAND QPSK	100/0	1732.5	17.7062	18.903
	20.0 MHz BAND 16QAM	100/0	1732.5	17.741	18.566

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	836.5	1.082	1.137
	1.4 MHz BAND 16QAM	6/0	836.5	1.08	1.144
	3.0 MHz BAND QPSK	15/0	836.5	2.6791	2.785
	3.0 MHz BAND 16QAM	15/0	836.5	2.6604	2.899
LTE BAND 5	5.0 MHz BAND QPSK	25/0	836.5	4.4383	4.69
	5.0 MHz BAND 16QAM	25/0	836.5	4.4064	4.682
	10.0 MHz BAND QPSK	50/0	836.5	8.838	9.147
	10.0 MHz BAND 16QAM	50/0	836.5	8.8174	9.198

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	5.0 MHz BAND QPSK	25/0	2535	4.4507	4.633
	5.0 MHz BAND 16QAM	25/0	2535	4.4457	4.6
	10.0 MHz BAND QPSK	50/0	2535	8.9035	9.341
	10.0 MHz BAND 16QAM	50/0	2535	8.8186	9.156
LTE BAND 7	15.0 MHz BAND QPSK	75/0	2535	13.328	13.792
	15.0 MHz BAND 16QAM	75/0	2535	13.2746	13.792
	20.0 MHz BAND QPSK	100/0	2535	17.8152	18.346
	20.0 MHz BAND 16QAM	100/0	2535	17.7283	18.357

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	707.5	1.0801	1.173
	1.4 MHz BAND 16QAM	6/0	707.5	1.0803	1.217
	3.0 MHz BAND QPSK	15/0	707.5	2.6528	2.872
LTE BAND 12	3.0 MHz BAND 16QAM	15/0	707.5	2.6584	2.753
LIE DAND 12	5.0 MHz BAND QPSK	25/0	707.5	4.4069	4.584
	5.0 MHz BAND 16QAM	25/0	707.5	4.405	4.629
	10.0 MHz BAND QPSK	50/0	707.5	8.9052	9.179
	10.0 MHz BAND 16QAM	50/0	707.5	8.8137	9.215

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 13	5.0 MHz BAND QPSK	25/0	782	4.4107	4.593
	5.0 MHz BAND 16QAM	25/0	782	4.4476	4.686
	10.0 MHz BAND QPSK	50/0	782	8.8718	9.196
	10.0 MHz BAND 16QAM	50/0	782	8.8995	9.175

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 17	5.0 MHz BAND QPSK	25/0	710	4.4756	4.693
	5.0 MHz BAND 16QAM	25/0	710	4.4551	4.687
	10.0 MHz BAND QPSK	50/0	710	8.9054	9.208
	10.0 MHz BAND 16QAM	50/0	710	8.8251	9.169

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	1882.5	1.0667	1.193
	1.4 MHz BAND 16QAM	6/0	1882.5	1.0798	1.218
	3.0 MHz BAND QPSK	15/0	1882.5	2.6476	2.794
	3.0 MHz BAND 16QAM	15/0	1882.5	2.6582	2.875
	5.0 MHz BAND QPSK	25/0	1882.5	4.4702	4.684
	5.0 MHz BAND 16QAM	25/0	1882.5	4.4969	4.606
LTE BAND 25	10.0 MHz BAND QPSK	50/0	1882.5	8.8194	9.153
	10.0 MHz BAND 16QAM	50/0	1882.5	8.8303	9.174
	15.0 MHz BAND QPSK	75/0	1882.5	13.2836	14.051
	15.0 MHz BAND 16QAM	75/0	1882.5	13.3735	13.781
	20.0 MHz BAND QPSK	100/0	1882.5	17.9255	18.391
	20.0 MHz BAND 16QAM	100/0	1882.5	17.8915	18.298

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	819	1.081	1.196
	1.4 MHz BAND 16QAM	6/0	819	1.0654	1.175
	3.0 MHz BAND QPSK	15/0	819	2.6728	2.798
LTE BAND 26	3.0 MHz BAND 16QAM	15/0	819	2.6939	2.778
LIE BAND 20	5.0 MHz BAND QPSK	25/0	819	4.5026	4.619
	5.0 MHz BAND 16QAM	25/0	819	4.4512	4.6
	10.0 MHz BAND QPSK	50/0	819	8.796	9.328
	10.0 MHz BAND 16QAM	50/0	819	8.8533	9.435

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 30	5.0 MHz BAND QPSK	25/0	2310	4.4173	4.62
	5.0 MHz BAND 16QAM	25/0	2310	4.4689	4.629
	10.0 MHz BAND QPSK	50/0	2310	8.8941	9.180
	10.0 MHz BAND 16QAM	50/0	2310	8.8328	9.164

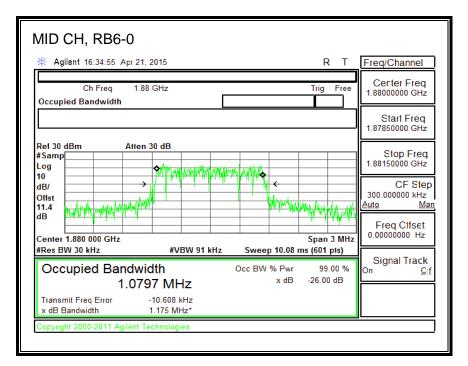
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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	5.0 MHz BAND QPSK	25/0	2593	4.4791	4.721
	5.0 MHz BAND 16QAM	25/0	2593	4.4481	4.68
	10.0 MHz BAND QPSK	50/0	2593	8.8983	9.505
LTE BAND 41	10.0 MHz BAND 16QAM	50/0	2593	8.816	9.46
LIE DAND 41	15.0 MHz BAND QPSK	75/0	2593	13.255	13.993
	15.0 MHz BAND 16QAM	75/0	2593	13.2613	13.871
	20.0 MHz BAND QPSK	100/0	2593	17.943	18.386
	20.0 MHz BAND 16QAM	100/0	2593	17.7267	18.375

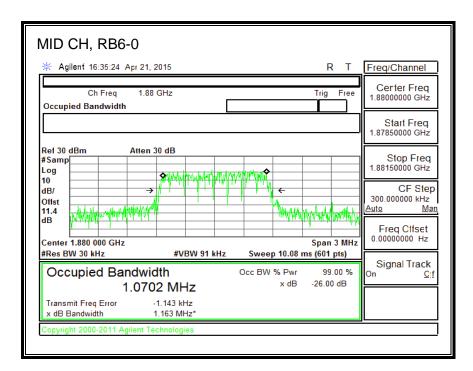
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8.1.1. LTE BAND 2

QPSK, (1.4 MHz BAND WIDTH)

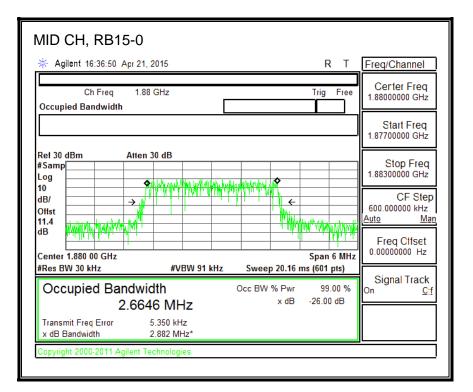


16QAM, (1.4 MHz BAND WIDTH)

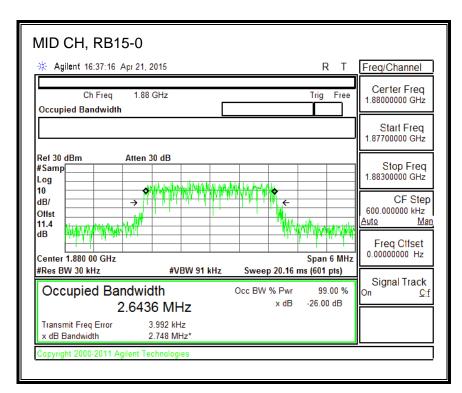


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QPSK, (3.0 MHz BAND WIDTH)

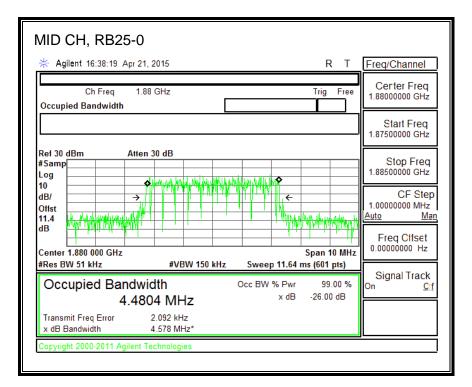


16QAM, (3.0 MHz BAND WIDTH)

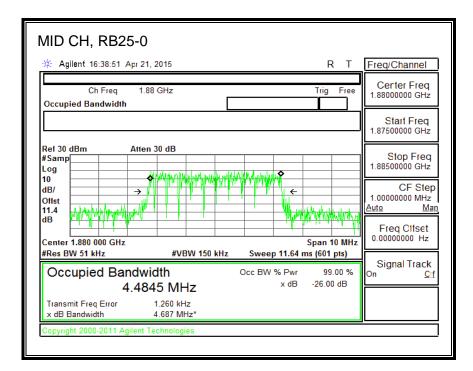


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QPSK, (5.0 MHz BAND WIDTH)

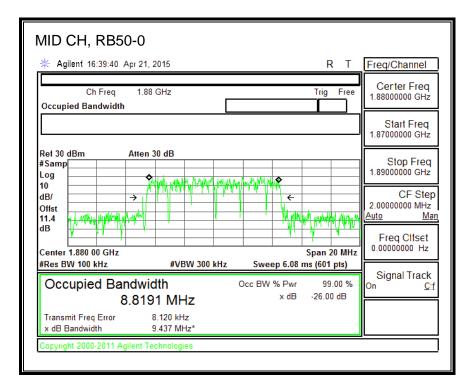


16QAM, (5.0 MHz BAND WIDTH)

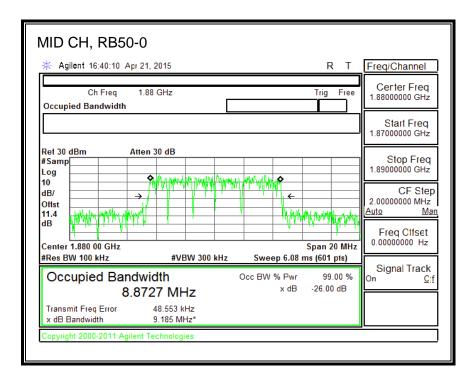


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QPSK, (10.0 MHz BAND WIDTH)



16QAM, (10.0 MHz BAND WIDTH)

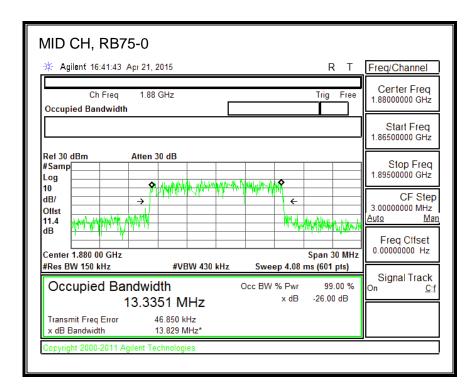


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QPSK, (15.0 MHz BAND WIDTH)

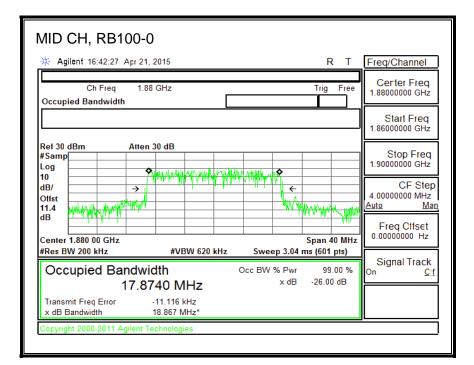
MID CH, RB75-0	, 2015		RT	Freq/Channel
Ch Freq 1.8 Occupied Bandwidth	8 GHz		Trig Free	Certer Freq 1.88000000 GHz
	L			Start Freq 1.86500000 GHz
#Samp	30 dB			Stop Freq 1.89500000 GHz
10 dB/ → Offst 11.4 dB	en an	← With A	Alt 1 Uks. Wet or	CF Step 3.00000000 MHz Auto Man
dB		1 41WY	Span 30 MHz	Freq Offset 0.00000000 Hz
#Res BW 150 kHz	#VBW 430 kHz	Sweep 4.08 i	ms (601 pts)	Signal Track
Occupied Bandwi 13.3	idth 649 MHz	Occ BW % Pwr x dB		On <u>Cif</u>
Transmit Freq Error x dB Bandwidth	25.880 kHz 13.861 MHz*			
Copyright 2000-2011 Agilent T	echnologies			

16QAM, (15.0 MHz BAND WIDTH)

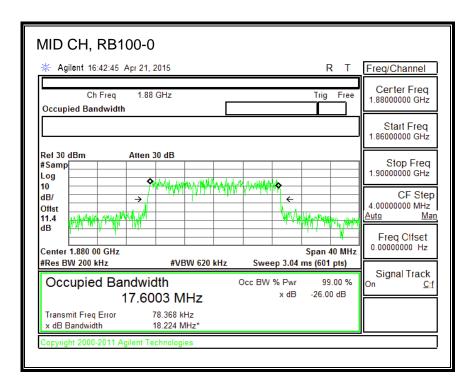


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QPSK, (20.0 MHz BAND WIDTH)



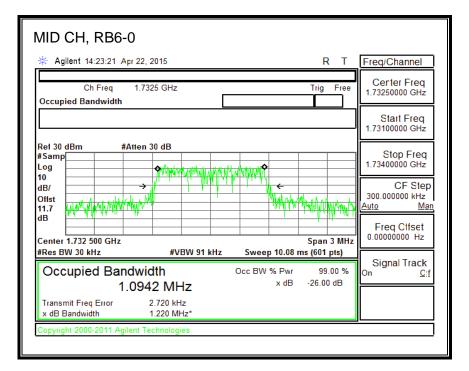
16QAM, (20.0 MHz BAND WIDTH)



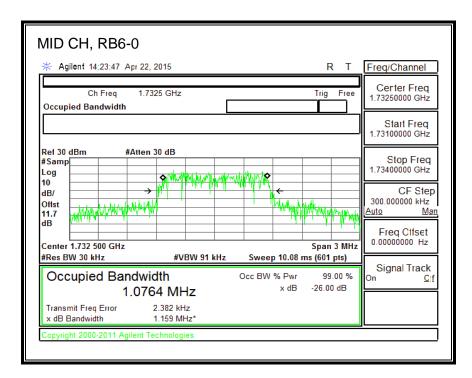
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8.1.2. LTE BAND 4

QPSK, (1.4 MHz BAND WIDTH)

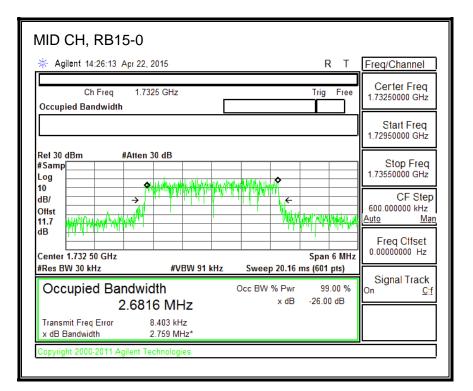


16QAM, (1.4 MHz BAND WIDTH)

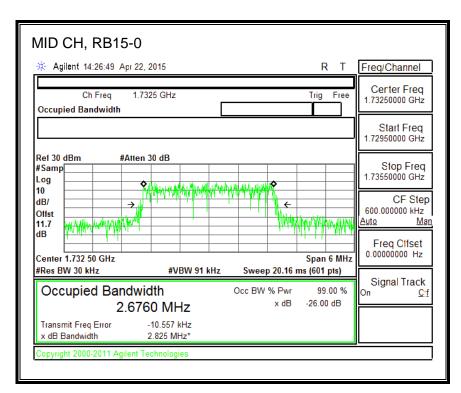


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QPSK, (3.0 MHz BAND WIDTH)

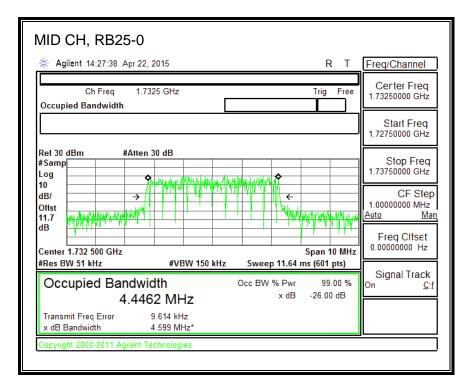


16QAM, (3.0 MHz BAND WIDTH)

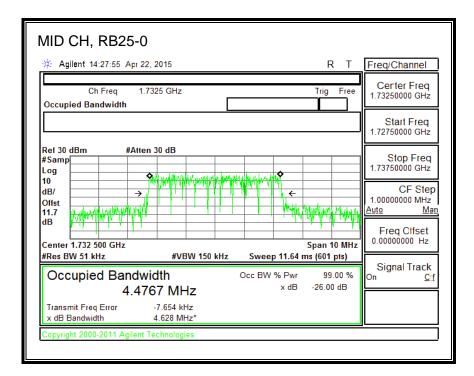


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QPSK, (5.0 MHz BAND WIDTH)

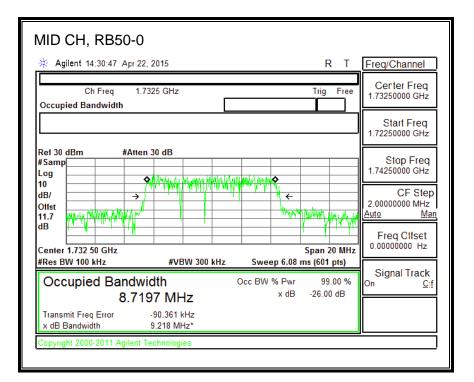


16QAM, (5.0 MHz BAND WIDTH)

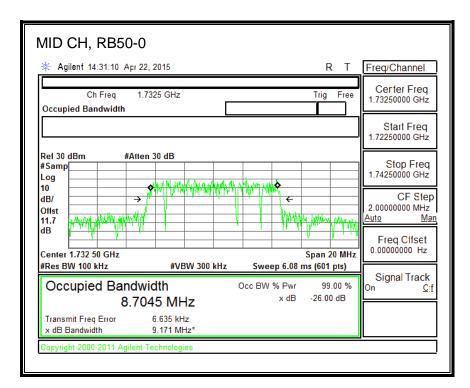


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QPSK, (10.0 MHz BAND WIDTH)

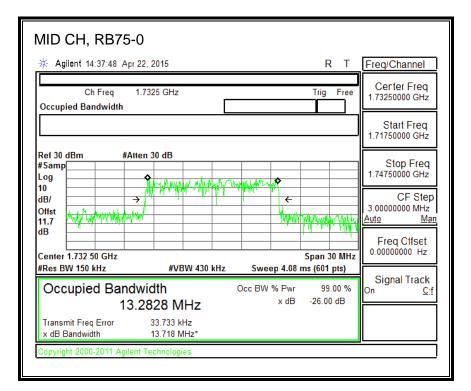


16QAM, (10.0 MHz BAND WIDTH)

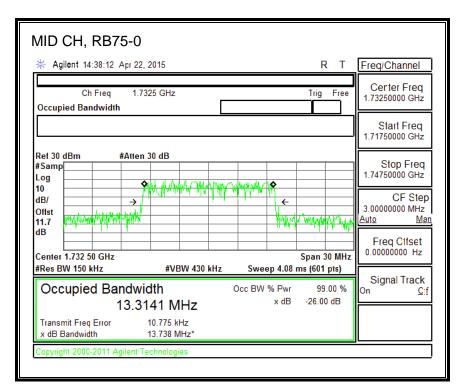


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QPSK, (15.0 MHz BAND WIDTH)



16QAM, (15.0 MHz BAND WIDTH)

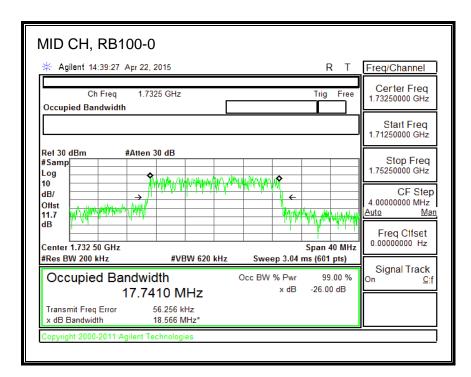


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QPSK, (20.0 MHz BAND WIDTH)

MID CH, RB100-0	
🔆 Agilent 14:39:09 Apr 22, 2015 R T	Freq/Channel
Ch Freq 1.7325 GHz Trig Free	Certer Freq 1.73250000 GHz
Occupied Bandwidth	Start Freq 1.71250000 GHz
Ref 30 dBm #Atten 30 dB #Samp	Stop Freq 1.75250000 GHz
	CF Step 4.00000000 MHz <u>Auto Man</u>
dB Center 1.732 50 GHz Span 40 MHz	Freq Clfset 0.00000000 Hz
#Res BW 200 kHz #VBW 620 kHz Sweep 3.04 ms (601 pts)	Signal Track
Occupied Bandwidth Occ BW % Pwr 99.00 % 17.7062 MHz × dB -26.00 dB	On <u>Qif</u>
Transmit Freq Error 10.508 kHz x dB Bandwidth 18.903 MHz*	
Copyright 2000-2011 Agilent Technologies	

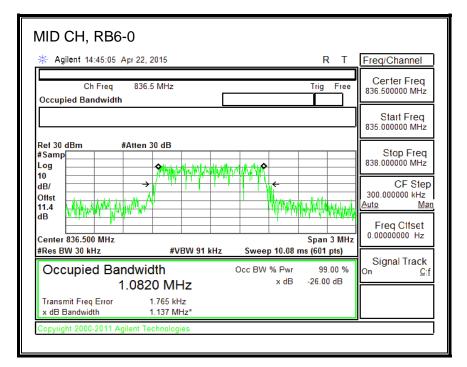
16QAM, (20.0 MHz BAND WIDTH)



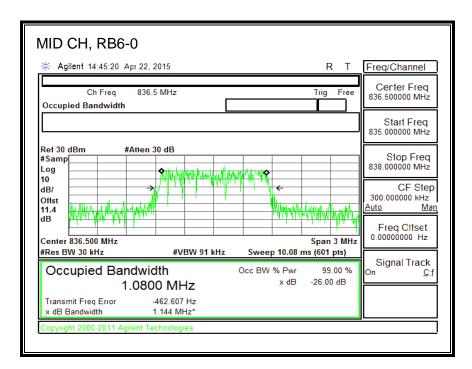
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8.1.3. LTE BAND 5

QPSK, (1.4 MHz BAND WIDTH)

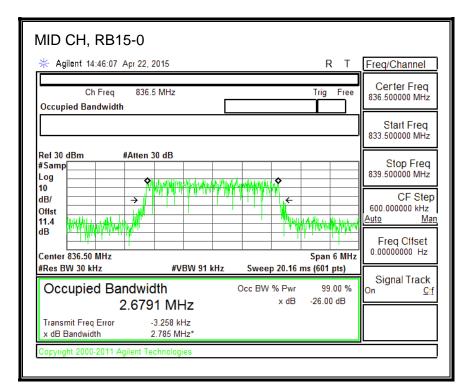


16QAM, (1.4 MHz BAND WIDTH)

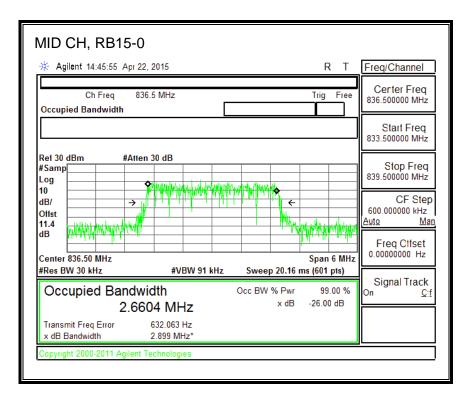


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QPSK, (3.0 MHz BAND WIDTH)

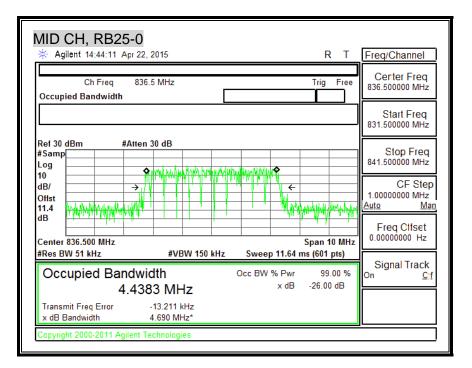


16QAM, (3.0 MHz BAND WIDTH)

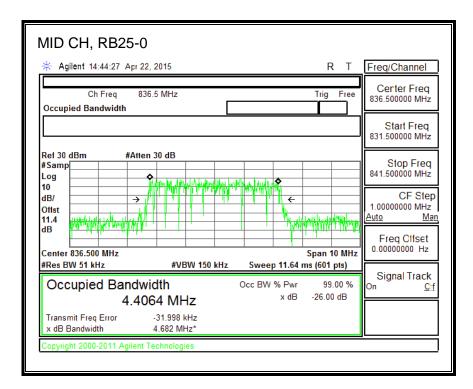


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QPSK, (5.0 MHz BAND WIDTH)

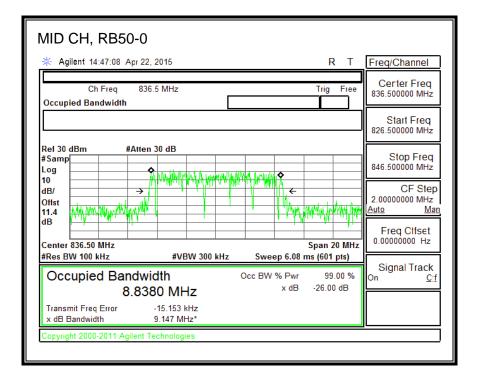


16QAM, (5.0 MHz BAND WIDTH)

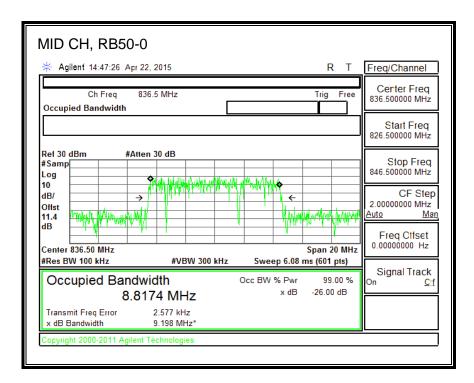


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QPSK, (10.0 MHz BAND WIDTH)



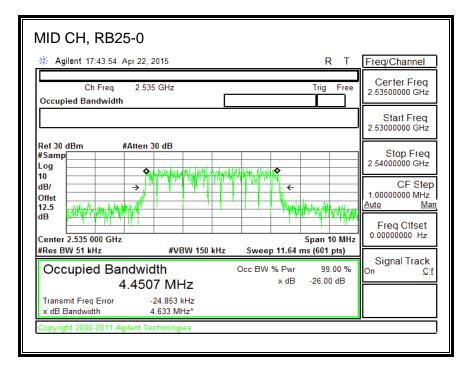
16QAM, (10.0 MHz BAND WIDTH)



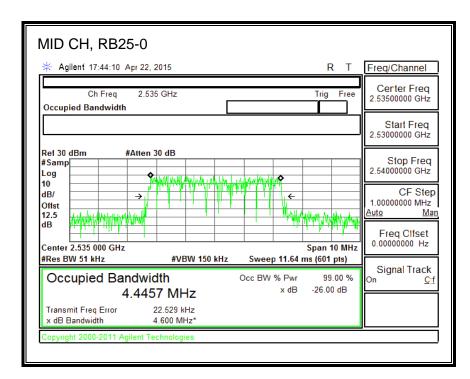
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8.1.4. LTE BAND 7

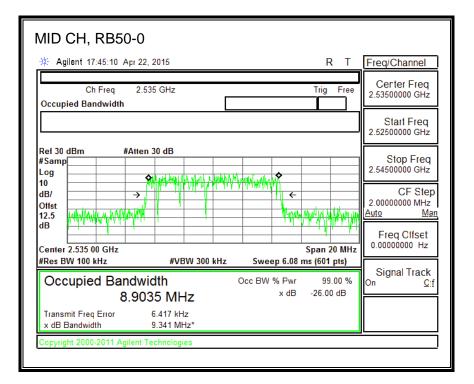
QPSK, (5.0 MHz BAND WIDTH)



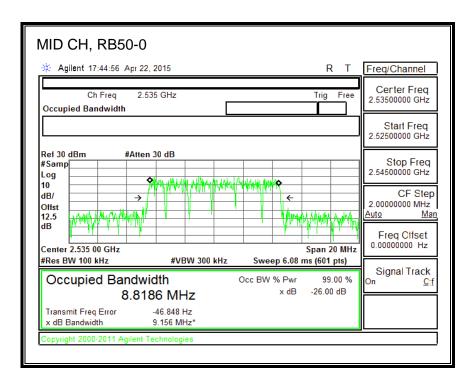
16QAM, (5.0 MHz BAND WIDTH)



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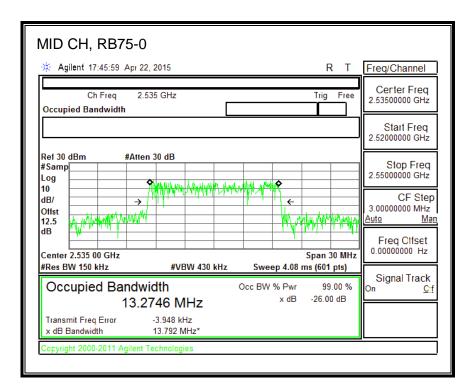
16QAM, (10.0 MHz BAND WIDTH)



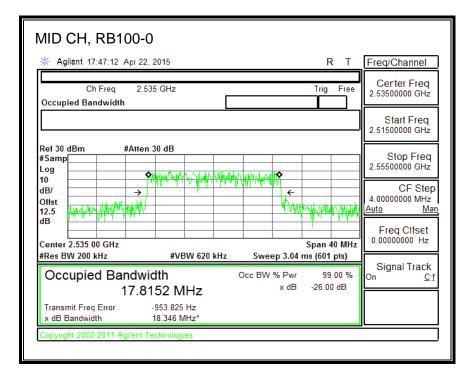
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MID CH, RB75-0	
₩ Agilent 17:46:16 Apr 22, 2015 R T	Freq/Channel
Ch Freq 2.535 GHz Trig Free Occupied Bandwidth	Certer Freq 2.53500000 GHz
	Start Freq 2.52000000 GHz
Ref 30 dBm #Atten 30 dB #Samp Log 10	Stop Freq 2.5500000 GHz
dB/ Offst 12.5	CF Step 3.0000000 MHz <u>Auto Man</u>
dB Center 2.535 00 GHz Span 30 MHz	Freq Clfset 0.00000000 Hz
#Res BW 150 kHz	Signal Track
Occupied Bandwidth Occ BW % Pwr 99.00 % 13.3280 MHz x dB -26.00 dB	On <u><u>Cif</u></u>
Transmit Freq Error 3.715 kHz x dB Bandwidth 13.792 MHz*	
Copyright 2000-2011 Agilent Technologies	

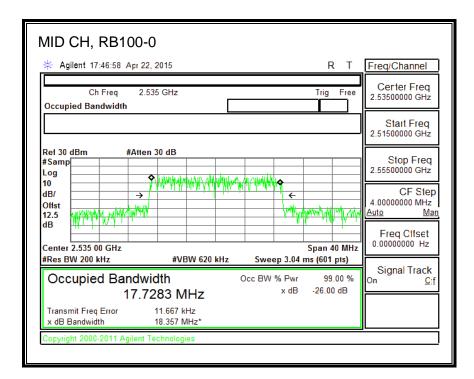
16QAM, (15.0 MHz BAND WIDTH)



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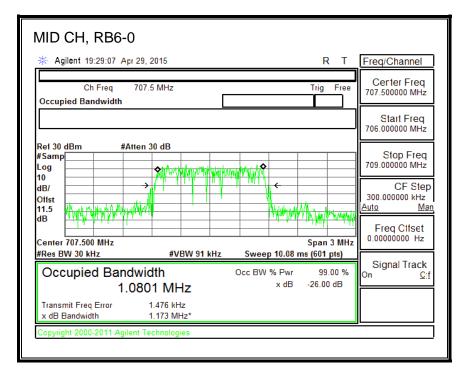
16QAM, (20.0 MHz BAND WIDTH)



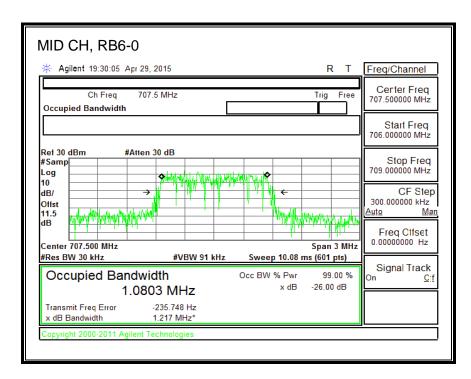
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8.1.5. LTE BAND 12

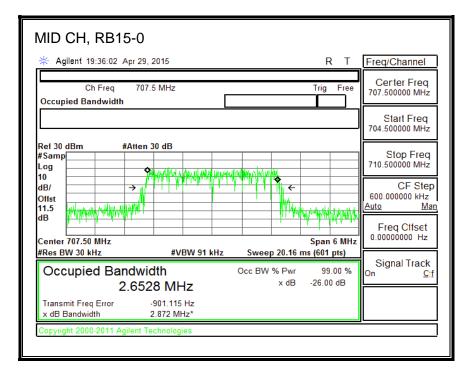
QPSK, (1.4 MHz BAND WIDTH)



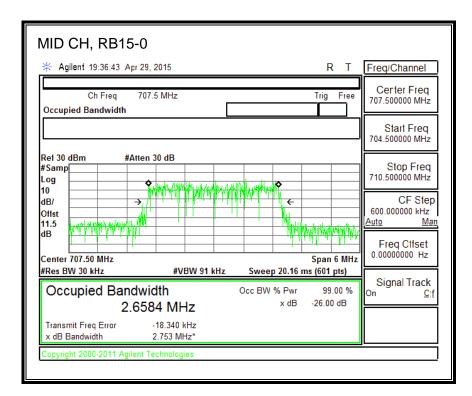
16QAM, (1.4 MHz BAND WIDTH)



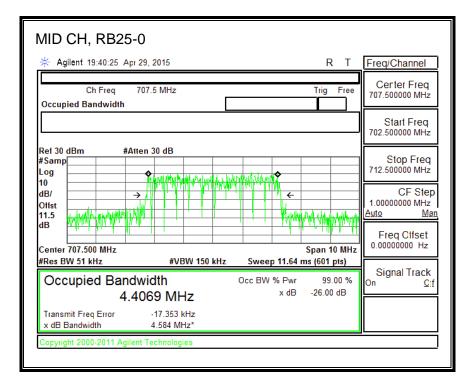
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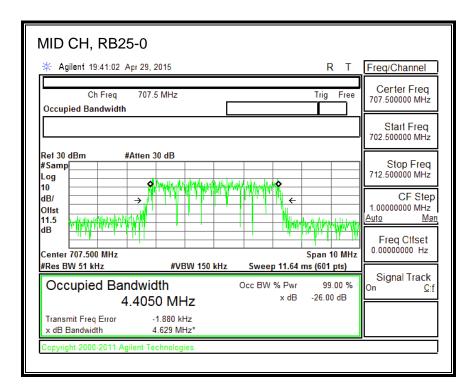
16QAM, (3.0 MHz BAND WIDTH)



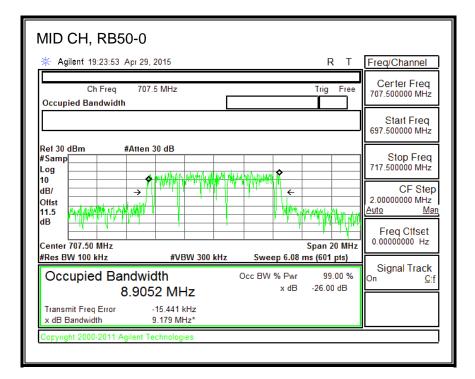
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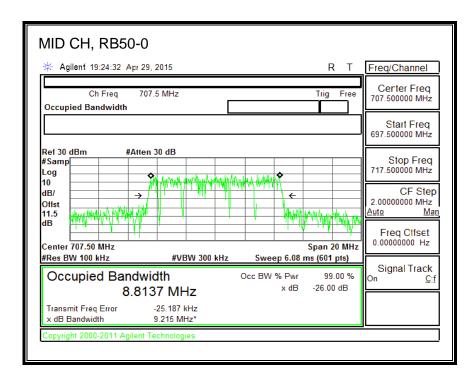
16QAM, (5.0 MHz BAND WIDTH)



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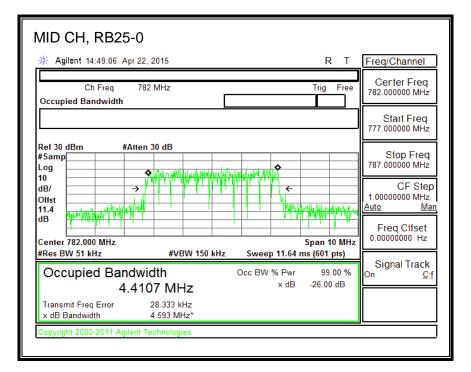
16QAM, (10.0 MHz BAND WIDTH)



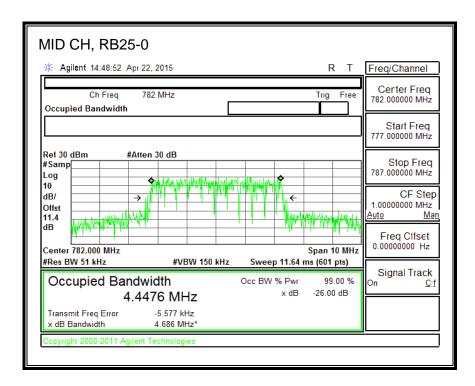
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8.1.6. LTE BAND 13

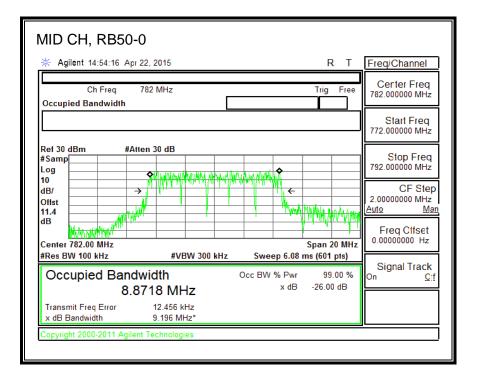
QPSK, (5.0 MHz BAND WIDTH)



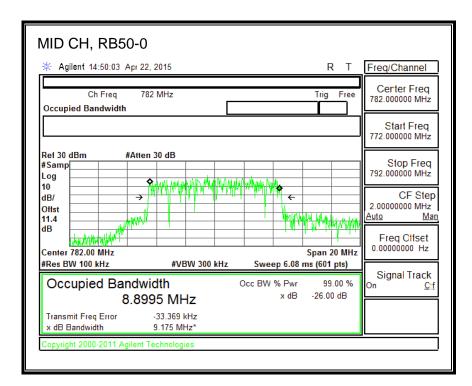
16QAM, (5.0 MHz BAND WIDTH)



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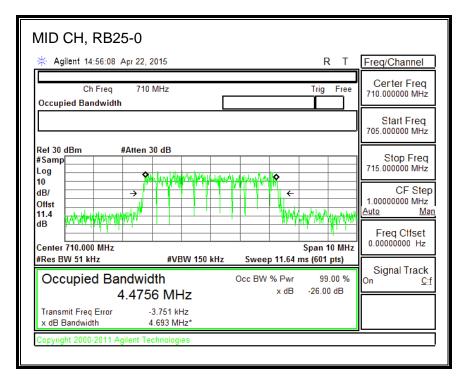
16QAM, (10.0 MHz BAND WIDTH)



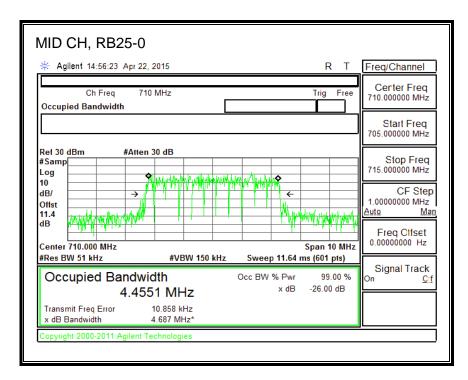
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8.1.7. LTE BAND 17

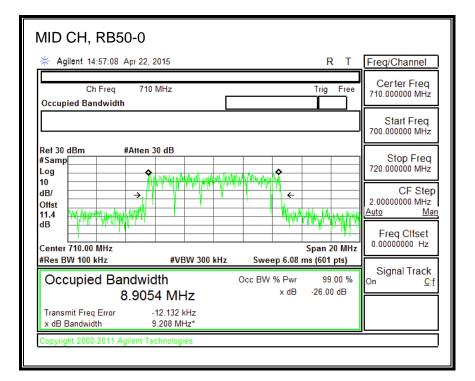
QPSK, (5.0 MHz BAND WIDTH)



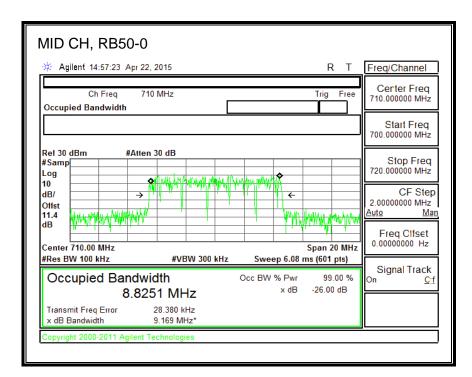
16QAM, (5.0 MHz BAND WIDTH)



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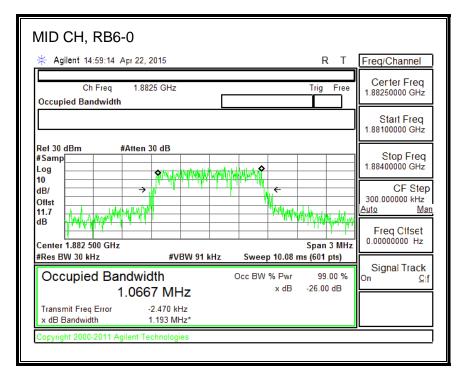
16QAM, (10.0 MHz BAND WIDTH)



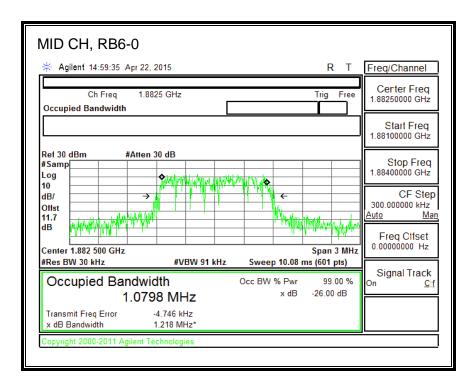
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8.1.8. LTE BAND 25

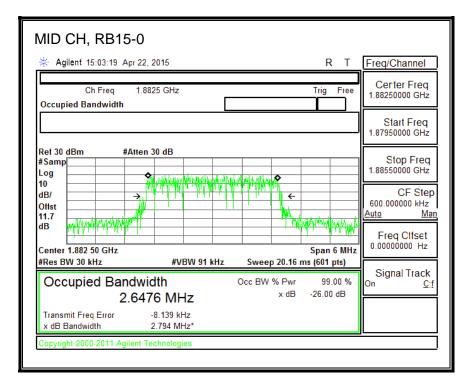
QPSK, (1.4 MHz BAND WIDTH)



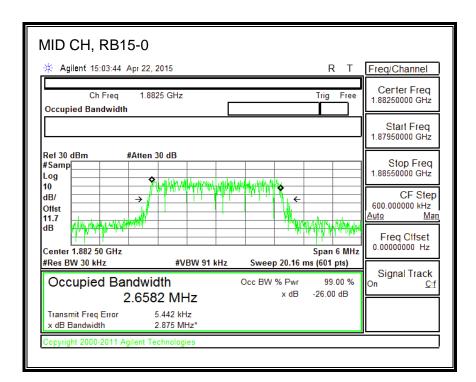
16QAM, (1.4 MHz BAND WIDTH)



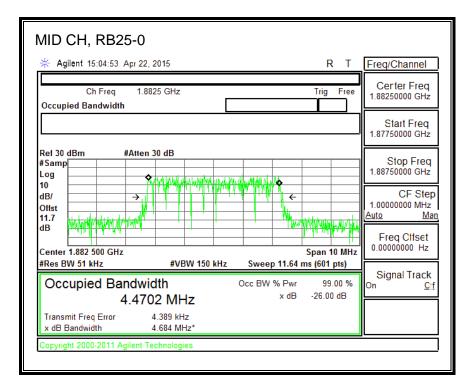
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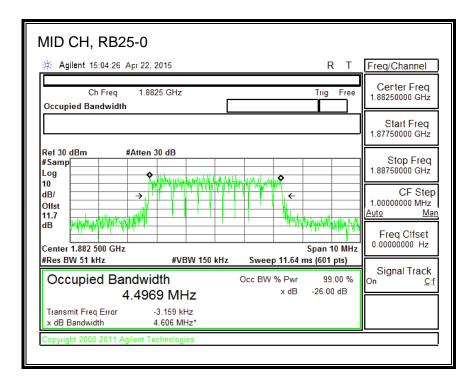
16QAM, (3.0 MHz BAND WIDTH)



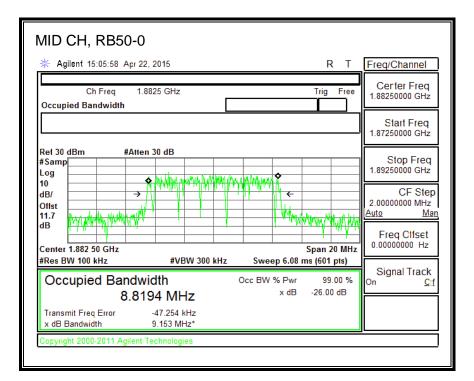
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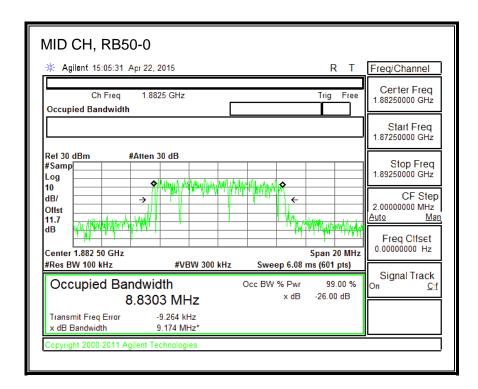
16QAM, (5.0 MHz BAND WIDTH)



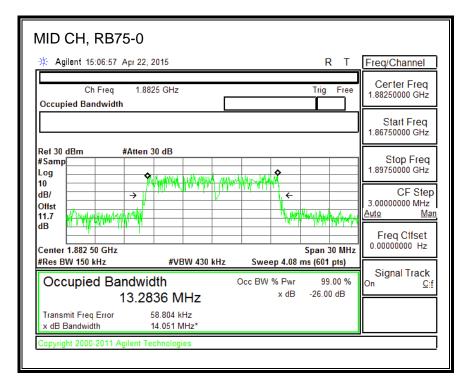
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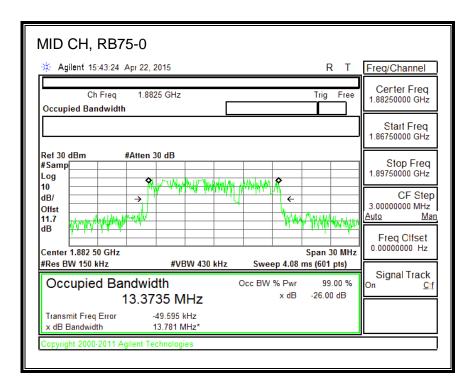
16QAM, (10.0 MHz BAND WIDTH)



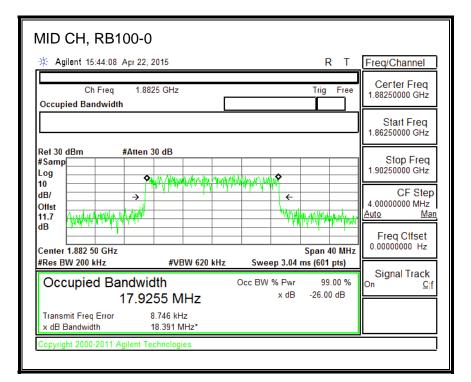
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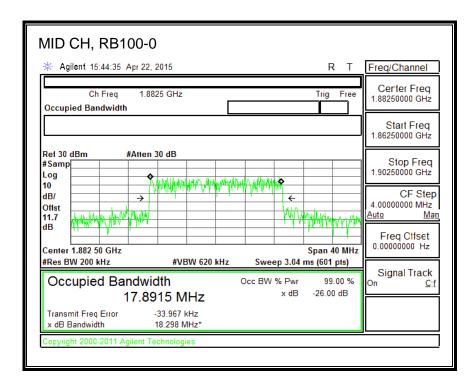
16QAM, (15.0 MHz BAND WIDTH)



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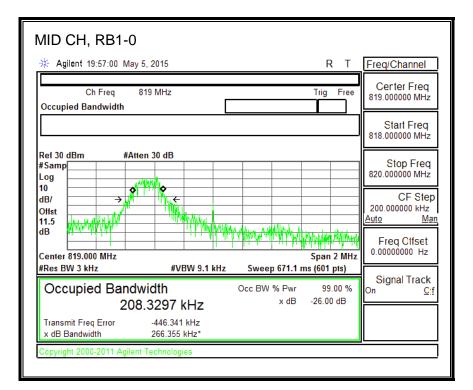
16QAM, (20.0 MHz BAND WIDTH)

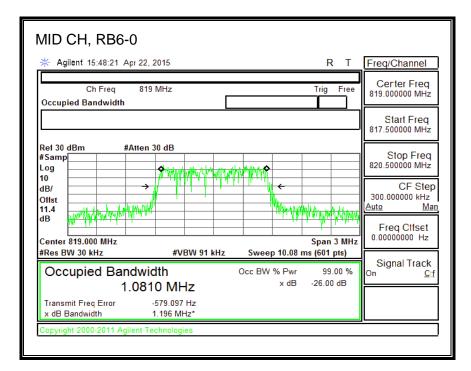


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8.1.9. LTE BAND 26

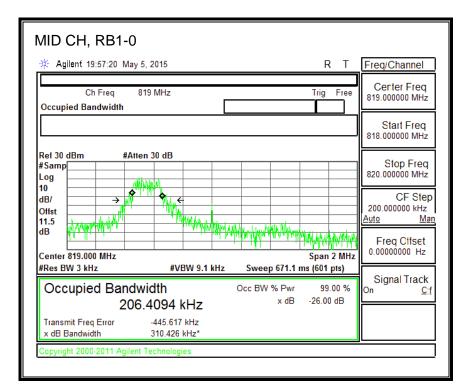
QPSK, (1.4 MHz BAND WIDTH)

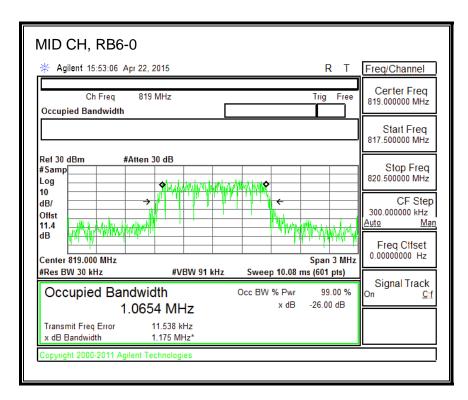




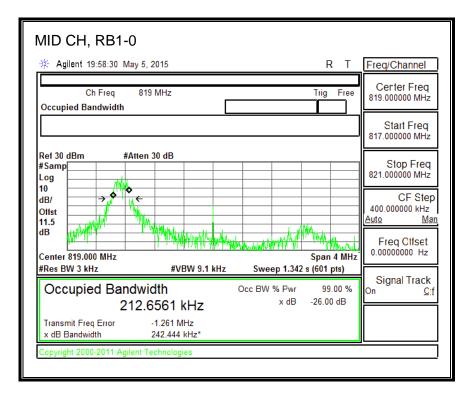
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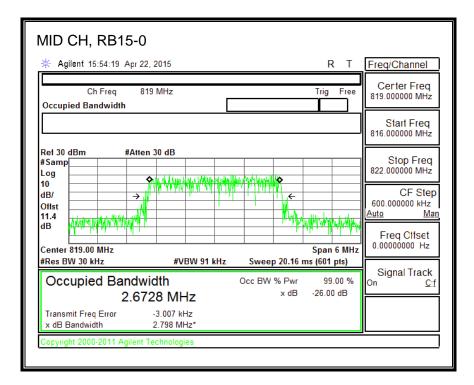
16QAM, (1.4 MHz BAND WIDTH)





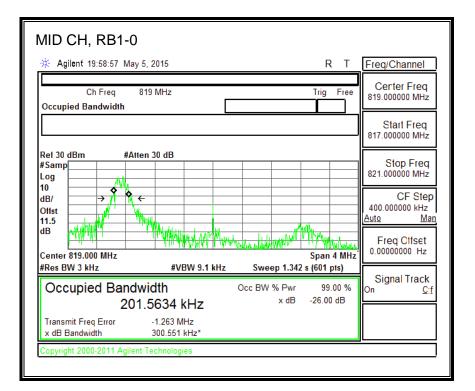
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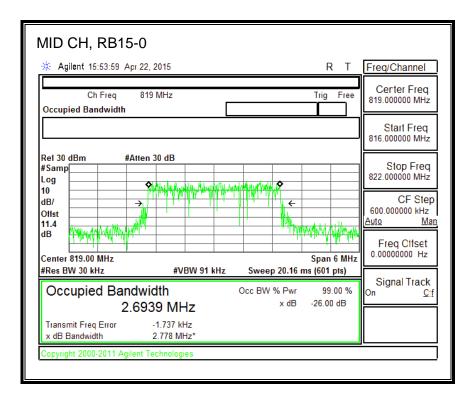




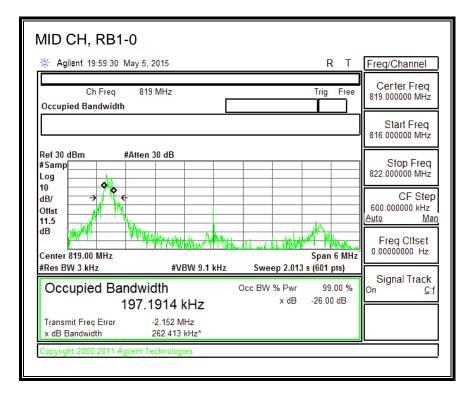
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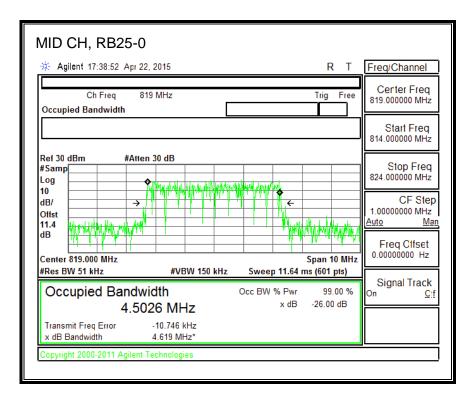
16QAM, (3.0 MHz BAND WIDTH)





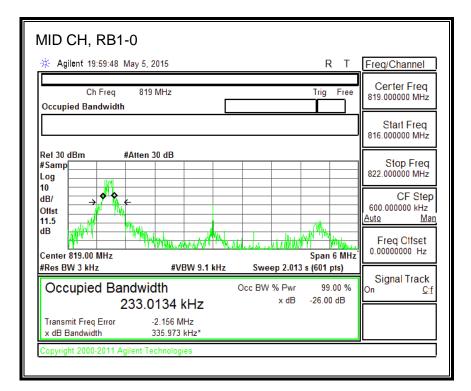
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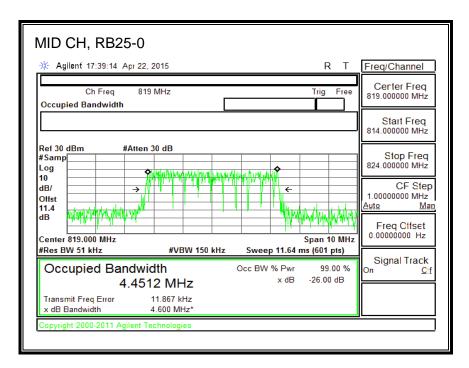




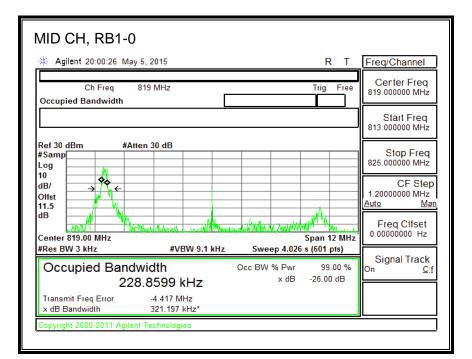
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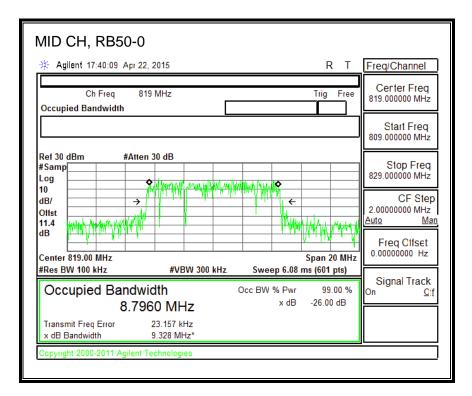
16QAM, (5.0 MHz BAND WIDTH)



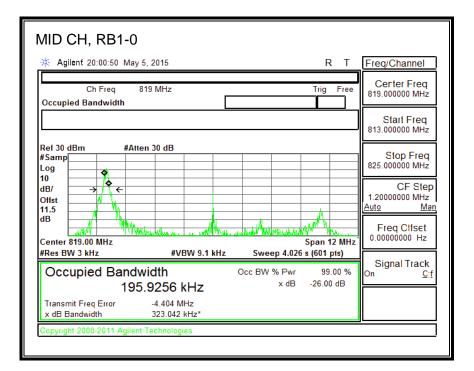


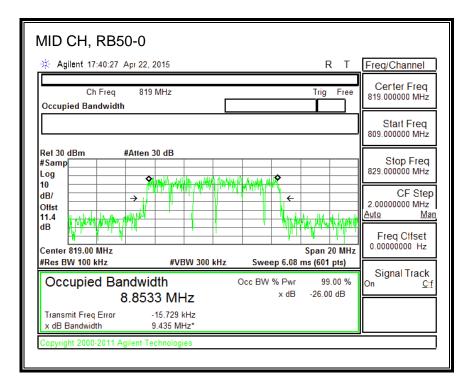
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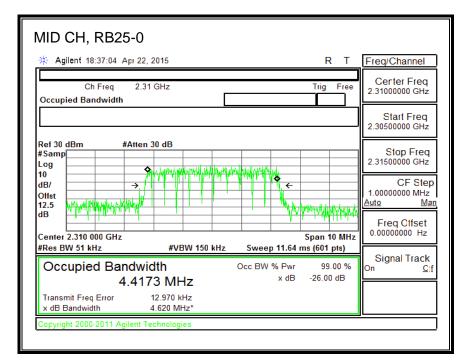




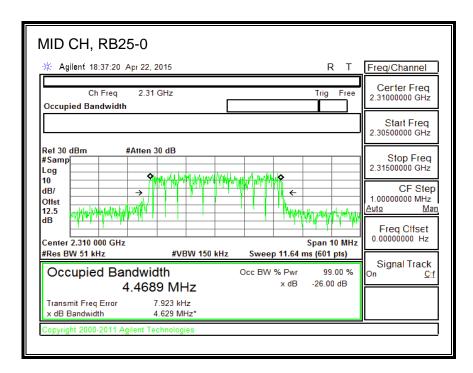
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8.1.10. LTE BAND 30

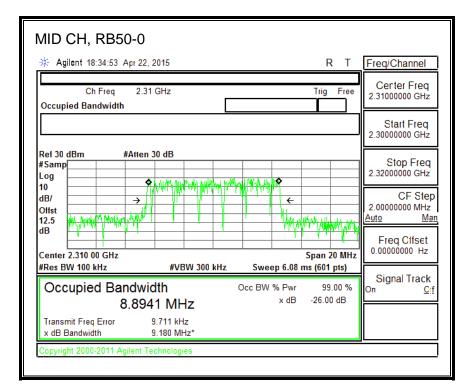
QPSK, (5.0 MHz BAND WIDTH)



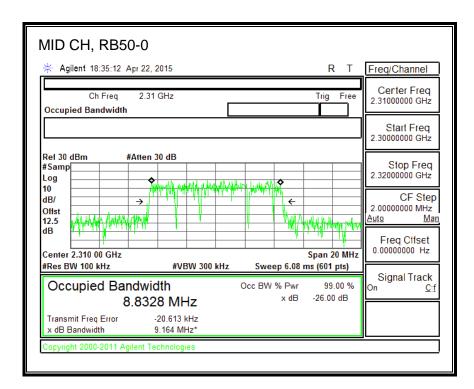
16QAM, (5.0 MHz BAND WIDTH)



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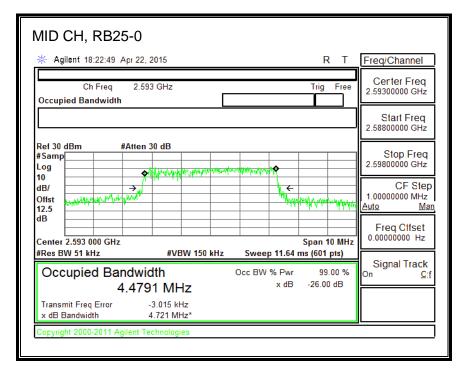
16QAM, (10.0 MHz BAND WIDTH)



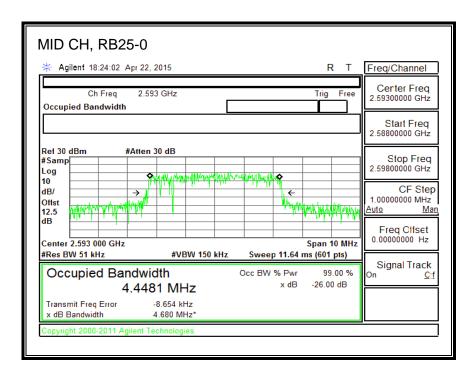
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8.1.11. LTE BAND 41

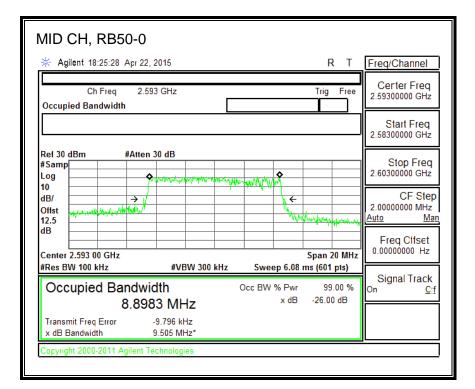
QPSK, (5.0 MHz BAND WIDTH)



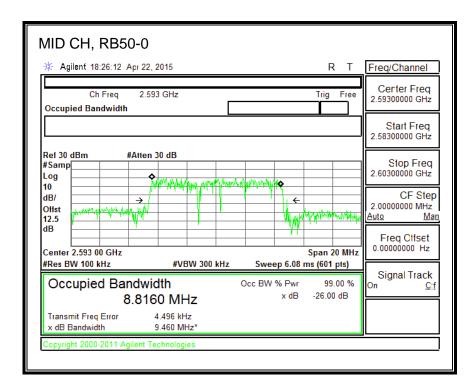
16QAM, (5.0 MHz BAND WIDTH)



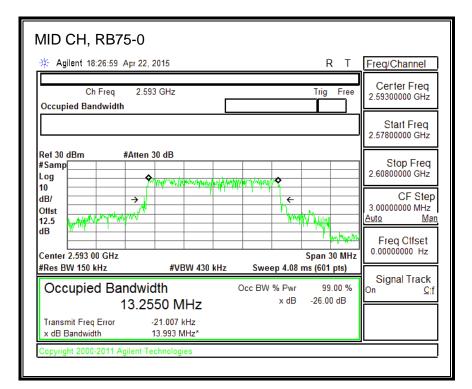
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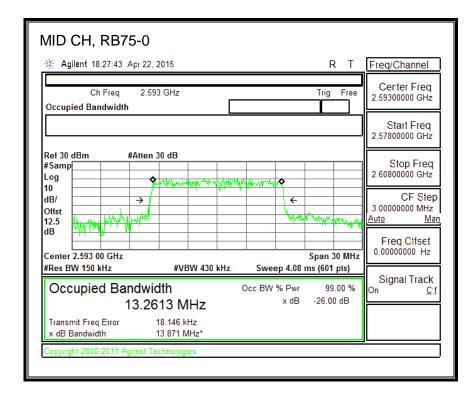
16QAM, (10.0 MHz BAND WIDTH)



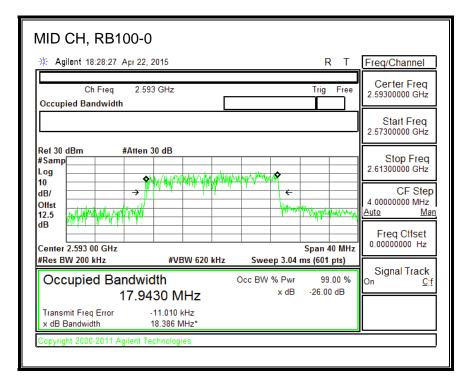
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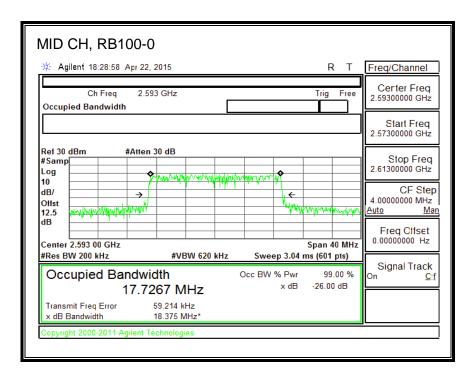
16QAM, (15.0 MHz BAND WIDTH)



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16QAM, (20.0 MHz BAND WIDTH)



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8.2. OCCUPIED BANDWIDTH (MODEL: A1688)

RULE PART(S)

FCC: §2.1049

<u>LIMITS</u>

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41

RESULTS

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 2	1.4 MHz BAND QPSK	6/0	1880	1.0662	1.197
	1.4 MHz BAND 16QAM	6/0	1880	1.0881	1.199
	3.0 MHz BAND QPSK	15/0	1880	2.6836	2.857
	3.0 MHz BAND 16QAM	15/0	1880	2.6718	2.852
	5.0 MHz BAND QPSK	25/0	1880	4.4479	4.616
	5.0 MHz BAND 16QAM	25/0	1880	4.4621	4.624
	10.0 MHz BAND QPSK	50/0	1880	8.8585	9.127
	10.0 MHz BAND 16QAM	50/0	1880	8.8713	9.23
	15.0 MHz BAND QPSK	75/0	1880	13.2094	13.763
	15.0 MHz BAND 16QAM	75/0	1880	13.2999	13.906
	20.0 MHz BAND QPSK	100/0	1880	17.8366	18.27
	20.0 MHz BAND 16QAM	100/0	1880	17.7023	18.366

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 4	1.4 MHz BAND QPSK	6/0	1732.5	1.0811	1.194
	1.4 MHz BAND 16QAM	6/0	1732.5	1.0694	1.158
	3.0 MHz BAND QPSK	15/0	1732.5	2.6761	2.765
	3.0 MHz BAND 16QAM	15/0	1732.5	2.6612	2.852
	5.0 MHz BAND QPSK	25/0	1732.5	4.4349	4.627
	5.0 MHz BAND 16QAM	25/0	1732.5	4.3990	4.617
	10.0 MHz BAND QPSK	50/0	1732.5	8.8352	9.423
	10.0 MHz BAND 16QAM	50/0	1732.5	8.7889	9.182
	15.0 MHz BAND QPSK	75/0	1732.5	13.3875	13.869
	15.0 MHz BAND 16QAM	75/0	1732.5	13.4452	14.071
	20.0 MHz BAND QPSK	100/0	1732.5	17.9289	18.369
	20.0 MHz BAND 16QAM	100/0	1732.5	17.7828	18.345

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 5	1.4 MHz BAND QPSK	6/0	836.5	1.0696	1.219
	1.4 MHz BAND 16QAM	6/0	836.5	1.0737	1.178
	3.0 MHz BAND QPSK	15/0	836.5	2.6741	2.854
	3.0 MHz BAND 16QAM	15/0	836.5	2.6646	2.881
	5.0 MHz BAND QPSK	25/0	836.5	4.4009	4.717
	5.0 MHz BAND 16QAM	25/0	836.5	4.4345	4.675
	10.0 MHz BAND QPSK	50/0	836.5	8.9051	9.431
	10.0 MHz BAND 16QAM	50/0	836.5	8.8982	9.129

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 7	5.0 MHz BAND QPSK	25/0	2535	4.4733	4.6
	5.0 MHz BAND 16QAM	25/0	2535	4.4723	4.794
	10.0 MHz BAND QPSK	50/0	2535	8.939	9.241
	10.0 MHz BAND 16QAM	50/0	2535	8.9368	9.227
	15.0 MHz BAND QPSK	75/0	2535	13.242	13.698
	15.0 MHz BAND 16QAM	75/0	2535	13.3325	13.788
	20.0 MHz BAND QPSK	100/0	2535	17.7279	18.469
	20.0 MHz BAND 16QAM	100/0	2535	17.9105	18.535

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REPORT NO: 15U20164-E9V5	
EUT: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS	

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	707.5	1.0766	1.177
	1.4 MHz BAND 16QAM	6/0	707.5	1.0956	1.177
LTE BAND 12	3.0 MHz BAND QPSK	15/0	707.5	2.6723	2.815
	3.0 MHz BAND 16QAM	15/0	707.5	2.6392	2.898
	5.0 MHz BAND QPSK	25/0	707.5	4.3858	4.579
	5.0 MHz BAND 16QAM	25/0	707.5	4.4497	4.796
	10.0 MHz BAND QPSK	50/0	707.5	8.8591	9.185
	10.0 MHz BAND 16QAM	50/0	707.5	8.9219	9.207

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	5.0 MHz BAND QPSK	25/0	782	4.4876	4.692
LTE BAND 13	5.0 MHz BAND 16QAM	25/0	782	4.4089	4.684
	10.0 MHz BAND QPSK	50/0	782	8.8303	9.158
	10.0 MHz BAND 16QAM	50/0	782	8.8613	9.111

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REPORT NO: 15U20164-E9V5 EUT: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	5.0 MHz BAND QPSK	25/0	710	4.4635	4.567
LTE BAND 17	5.0 MHz BAND 16QAM	25/0	710	4.4338	4.688
	10.0 MHz BAND QPSK	50/0	710	8.8365	9.203
	10.0 MHz BAND 16QAM	50/0	710	8.8956	9.218

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	1882.5	1.079	1.2
	1.4 MHz BAND 16QAM	6/0	1882.5	1.0819	1.194
	3.0 MHz BAND QPSK	15/0	1882.5	2.6895	2.795
	3.0 MHz BAND 16QAM	15/0	1882.5	2.657	2.768
	5.0 MHz BAND QPSK	25/0	1882.5	4.4484	4.62
	5.0 MHz BAND 16QAM	25/0	1882.5	4.4841	4.604
LTE BAND 25	10.0 MHz BAND QPSK	50/0	1882.5	8.8524	9.161
	10.0 MHz BAND 16QAM	50/0	1882.5	8.8449	9.164
	15.0 MHz BAND QPSK	75/0	1882.5	13.3155	13.842
	15.0 MHz BAND 16QAM	75/0	1882.5	13.035	13.845
	20.0 MHz BAND QPSK	100/0	1882.5	17.9507	18.45
	20.0 MHz BAND 16QAM	100/0	1882.5	17.8306	18.346

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REPORT NO: 15U20164-E9V5 EUT: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

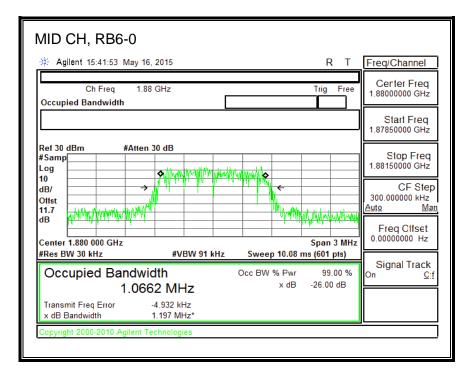
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	819	1.0896	1.156
	1.4 MHz BAND 16QAM	6/0	819	1.0868	1.157
	3.0 MHz BAND QPSK	15/0	819	2.6292	2.746
LTE BAND 26	3.0 MHz BAND 16QAM	15/0	819	2.6623	2.896
	5.0 MHz BAND QPSK	25/0	819	4.3814	4.621
	5.0 MHz BAND 16QAM	25/0	819	4.4458	4.633
	10.0 MHz BAND QPSK	50/0	819	8.8601	9.158
	10.0 MHz BAND 16QAM	50/0	819	8.8361	9.16

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	5.0 MHz BAND QPSK	25/0	2593	4.4384	4.699
	5.0 MHz BAND 16QAM	25/0	2593	4.4505	4.686
	10.0 MHz BAND QPSK	50/0	2593	8.8254	9.356
LTE BAND 41	10.0 MHz BAND 16QAM	50/0	2593	8.8816	9.337
	15.0 MHz BAND QPSK	75/0	2593	13.219	13.825
	15.0 MHz BAND 16QAM	75/0	2593	13.1442	13.865
-	20.0 MHz BAND QPSK	100/0	2593	17.9163	18.896
	20.0 MHz BAND 16QAM	100/0	2593	17.828	18.389

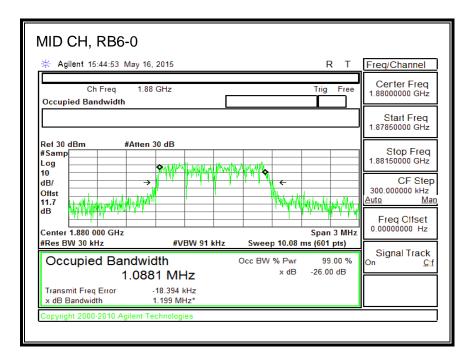
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8.2.1. LTE BAND 2

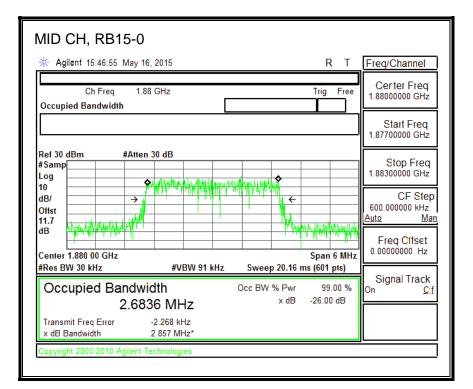
QPSK, (1.4 MHz BAND WIDTH)



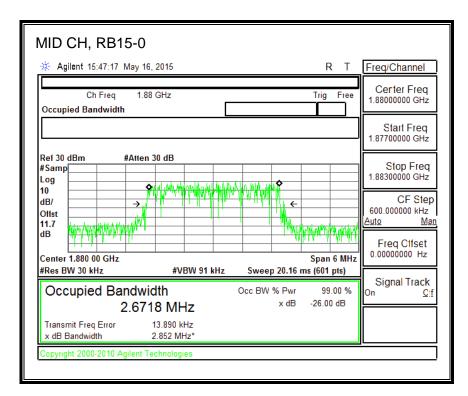
16QAM, (1.4 MHz BAND WIDTH)



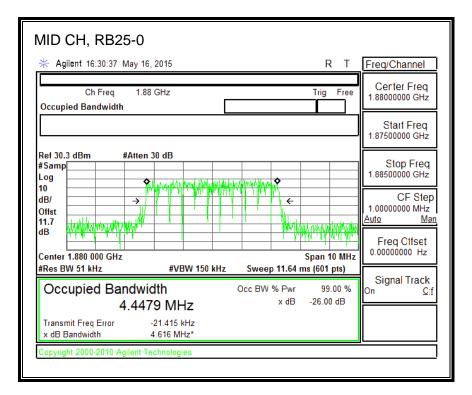
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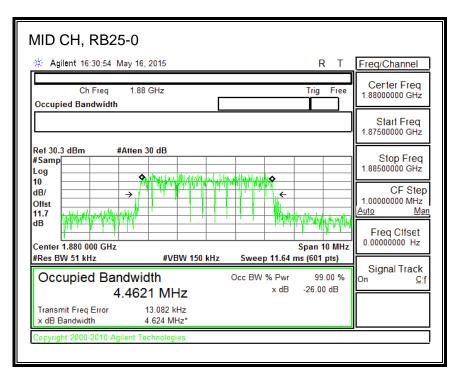
16QAM, (3.0 MHz BAND WIDTH)



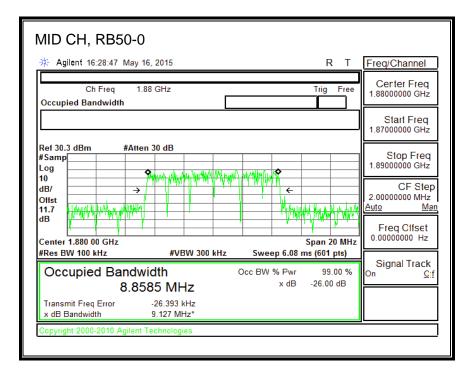
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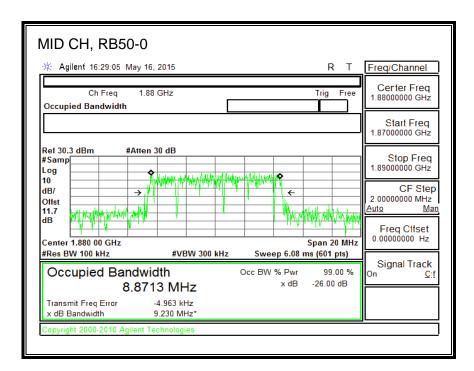
16QAM, (5.0 MHz BAND WIDTH)



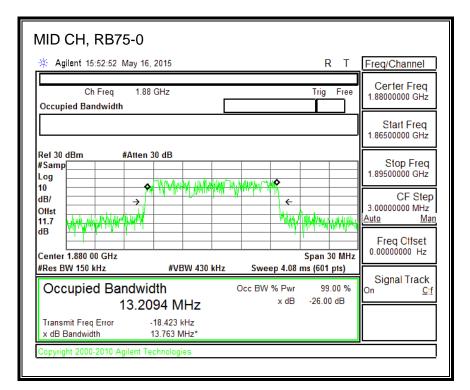
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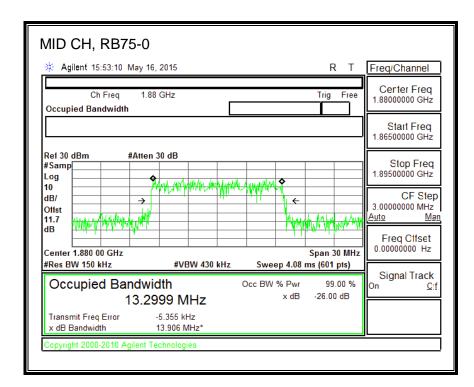
16QAM, (10.0 MHz BAND WIDTH)



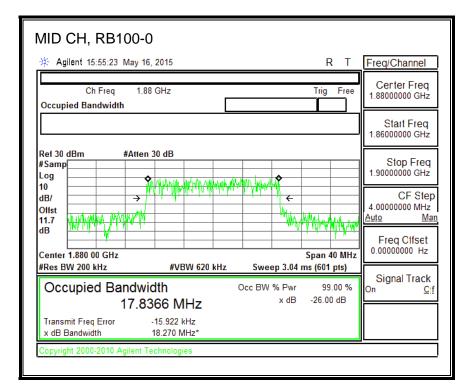
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16QAM, (15.0 MHz BAND WIDTH)



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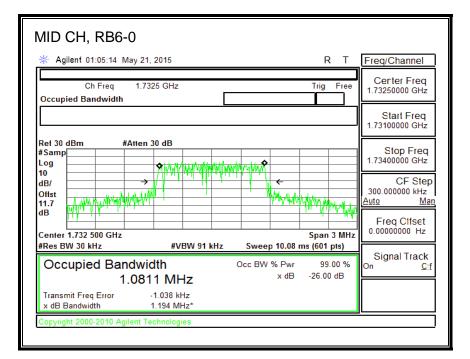
16QAM, (20.0 MHz BAND WIDTH)

WID CH, RB10			RΤ	Freq/Channel
Ch Freq Occupied Bandwidth	1.88 GHz		Trig Free	Certer Freq 1.88000000 GHz
	L			Start Freq 1.8600000 GHz
#Samp	tten 30 dB			Stop Freq 1.9000000 GHz
10 dB/ Offst 11.7 dB	× → while the second seco	÷	hle kronin i sku	CF Step 4.00000000 MHz Auto Man
dB	γ ν ,		Span 40 MHz	Freq Ctfset 0.00000000 Hz
#Res BW 200 kHz	#VBW 620 kHz	Sweep 3.04 n	•	Oine al Tra als
Occupied Band 17	dwidth 7.7023 MHz	Occ BW % Pwr x dB	99.00 % -26.00 dB	Signal Track ^{On <u>C</u>!f}
Transmit Freq Error x dB Bandwidth	38.829 kHz 18.366 MHz*			

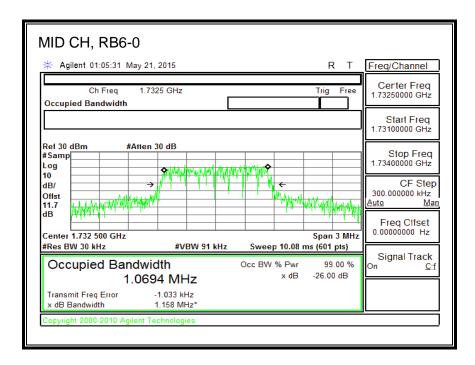
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8.2.2. LTE BAND 4

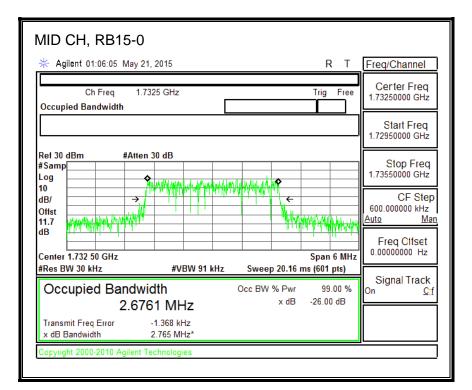
QPSK, (1.4 MHz BAND WIDTH)



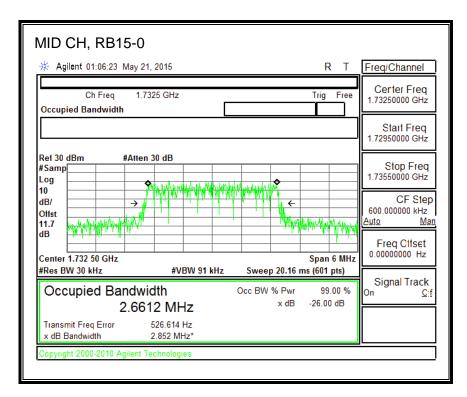
16QAM, (1.4 MHz BAND WIDTH)



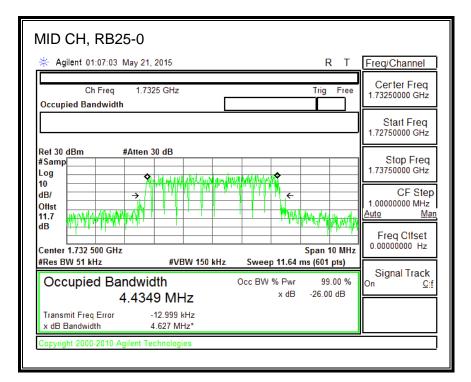
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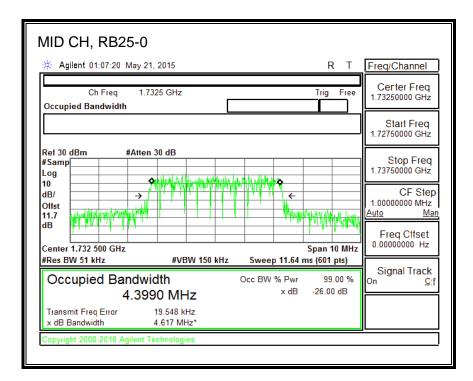
16QAM, (3.0 MHz BAND WIDTH)



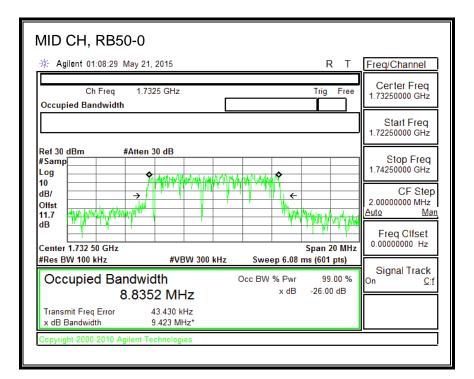
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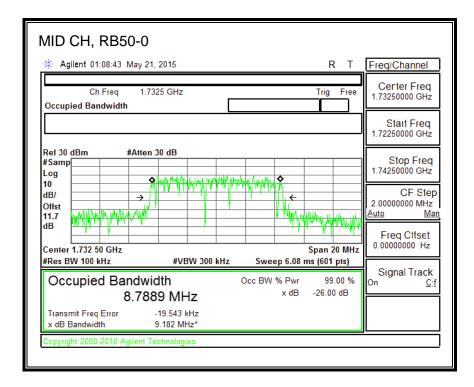
16QAM, (5.0 MHz BAND WIDTH)



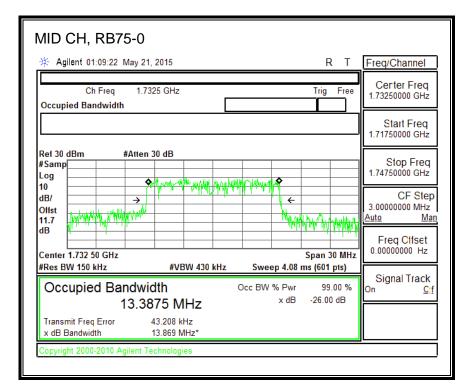
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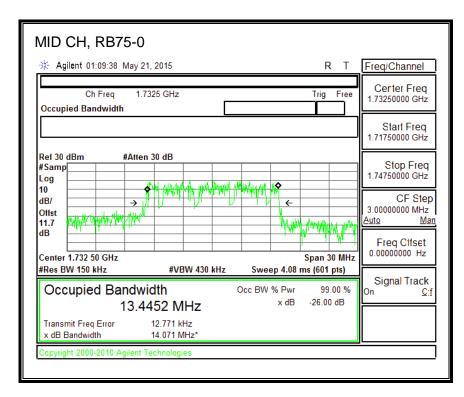
16QAM, (10.0 MHz BAND WIDTH)



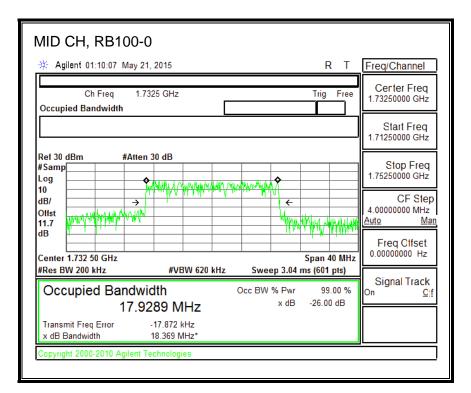
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16QAM, (15.0 MHz BAND WIDTH)



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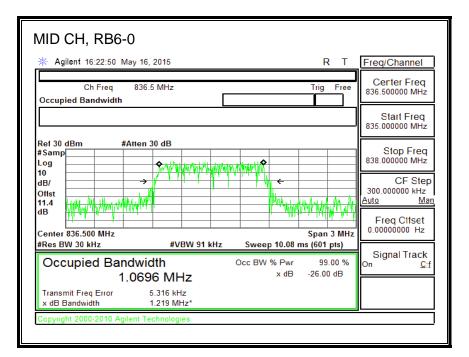
16QAM, (20.0 MHz BAND WIDTH)

MID CH, RB100-0		
🔆 Agilent 01:10:21 May 21, 2015	RT	Freq/Channel
Ch Freq 1.7325 GHz Occupied Bandwidth	Trig Free	Certer Freq 1.73250000 GHz
		Start Freq 1.71250000 GHz
Ref 30 dBm #Atten 30 dB #Samp Log 10 dB/ Offst 11.7 dB Center 1.732 50 GHz	€ Span 40 MHz	Stop Freq 1.75250000 GHz CF Step 4.00000000 MHz <u>Auto</u> Man Freq Clfset 0.00000000 Hz
#Res BW 200 kHz #VBW 620 kHz	Sweep 3.04 ms (601 pts)	Signal Track
Occupied Bandwidth 17.7828 MHz	Occ BW % Pwr 99.00 % x dB -26.00 dB	Signal Track ^{On <u>C</u>if}
Transmit Freq Error -53.610 kHz x dB Bandwidth 18.345 MHz*		
Copyright 2000-2010 Agilent Technologies		

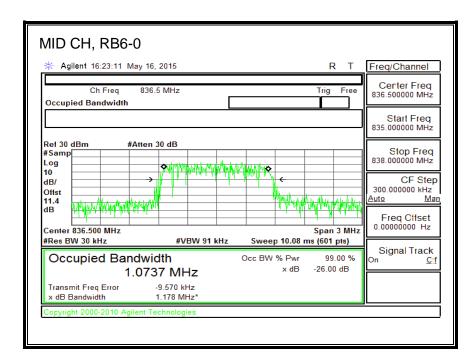
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8.2.3. LTE BAND 5

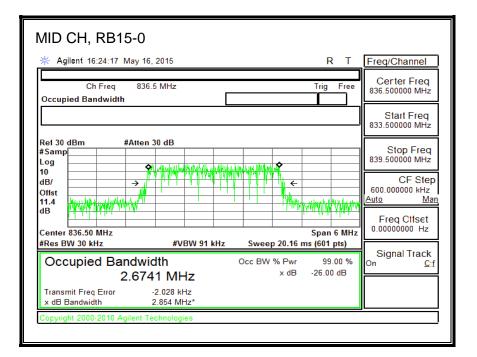
QPSK, (1.4 MHz BAND WIDTH)



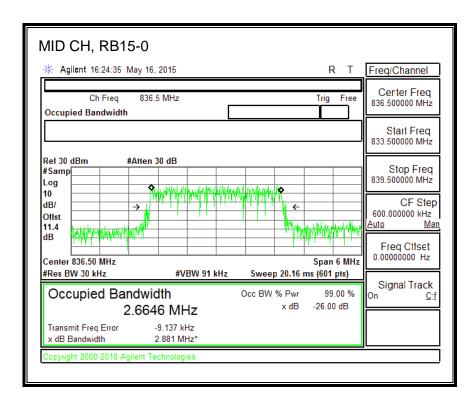
16QAM, (1.4 MHz BAND WIDTH)



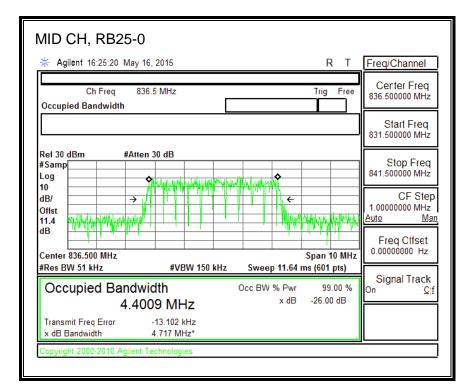
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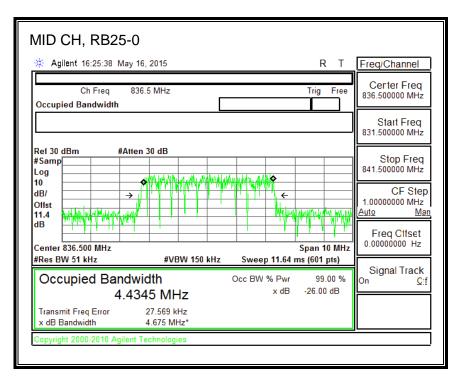
16QAM, (3.0 MHz BAND WIDTH)



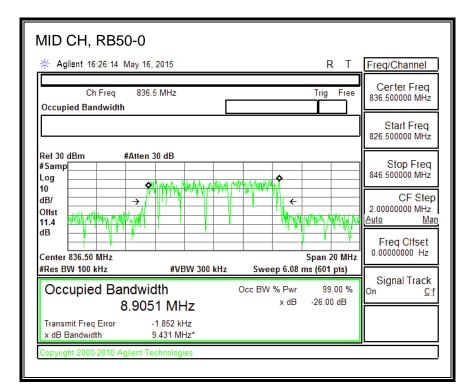
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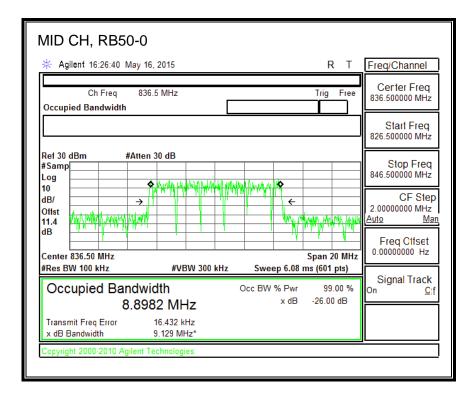
16QAM, (5.0 MHz BAND WIDTH)



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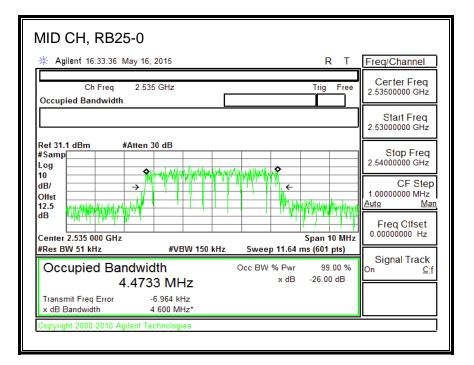
16QAM, (10.0 MHz BAND WIDTH)



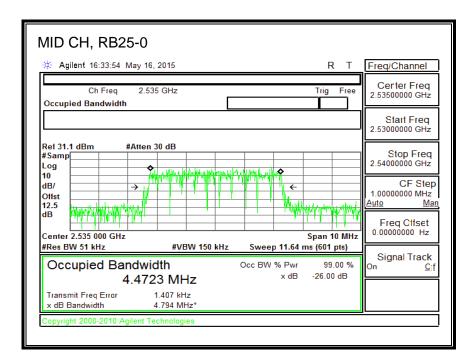
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8.2.4. LTE BAND 7

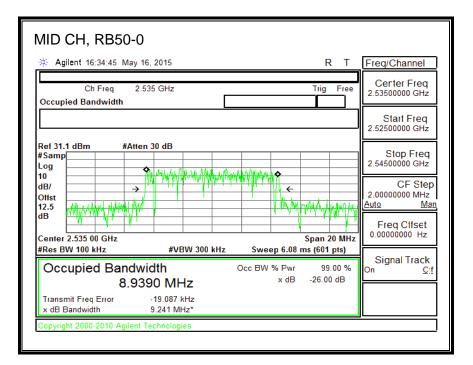
QPSK, (5.0 MHz BAND WIDTH)



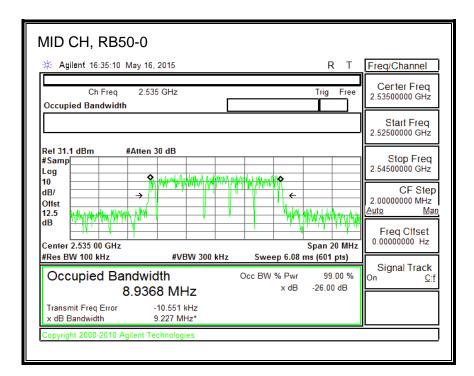
16QAM, (5.0 MHz BAND WIDTH)



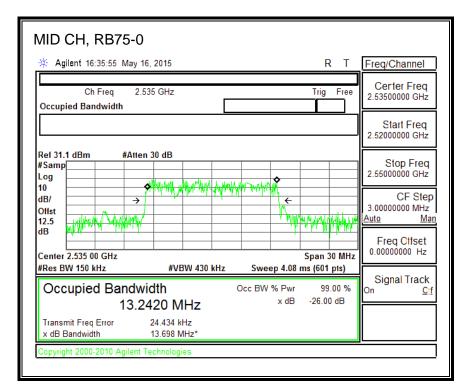
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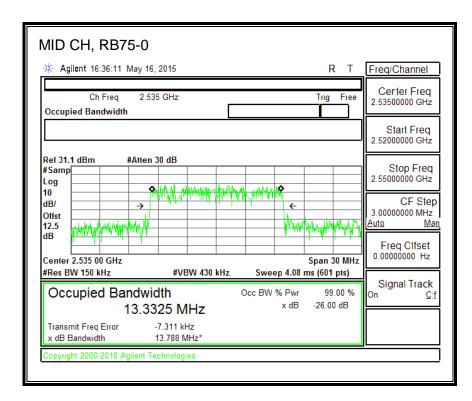
16QAM, (10.0 MHz BAND WIDTH)



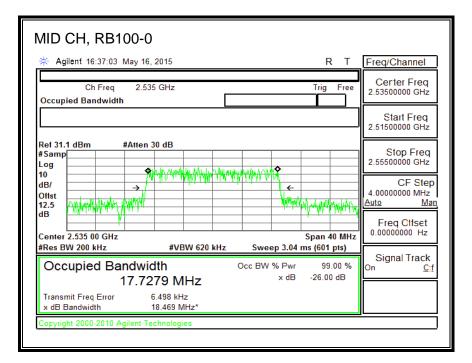
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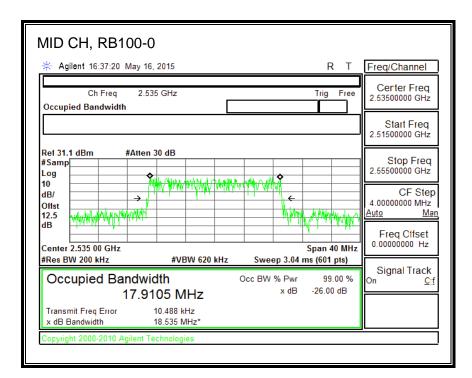
16QAM, (15.0 MHz BAND WIDTH)



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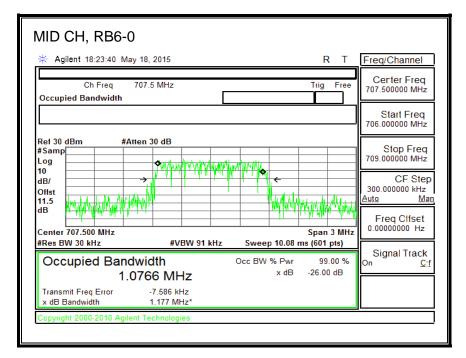
16QAM, (20.0 MHz BAND WIDTH)



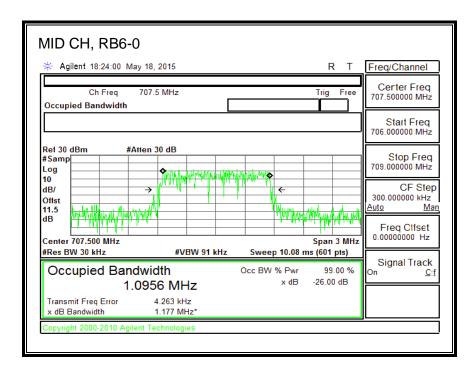
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8.2.5. LTE BAND 12

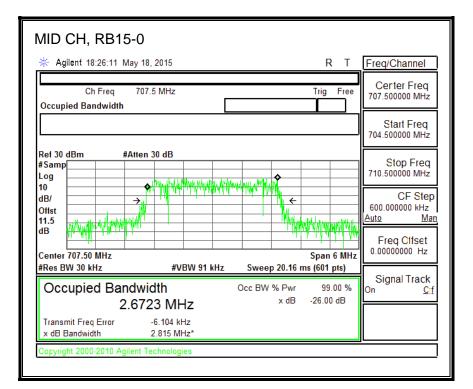
QPSK, (1.4 MHz BAND WIDTH)



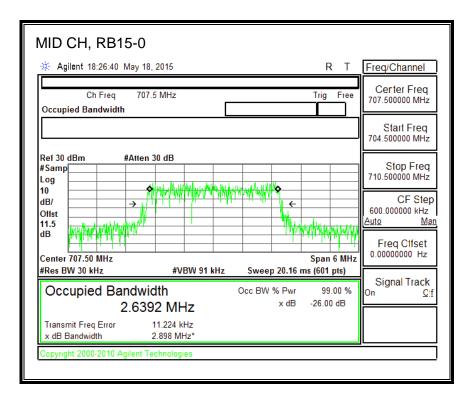
16QAM, (1.4 MHz BAND WIDTH)



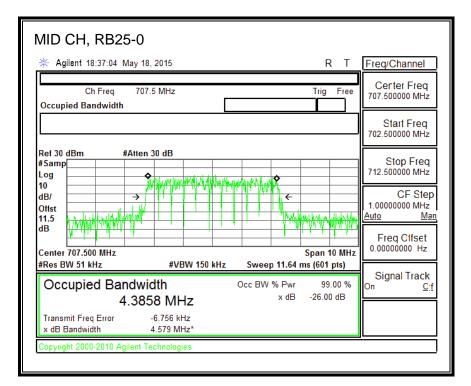
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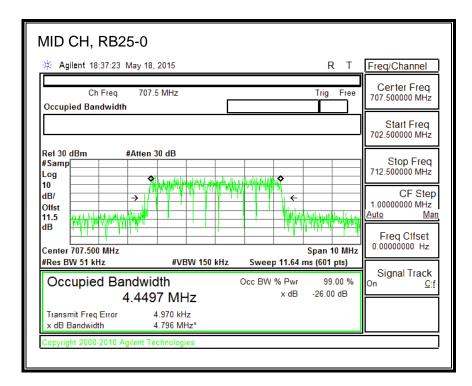
16QAM, (3.0 MHz BAND WIDTH)



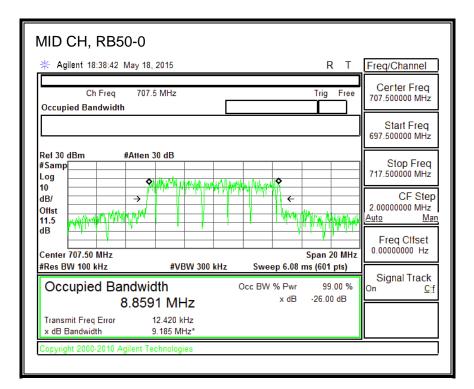
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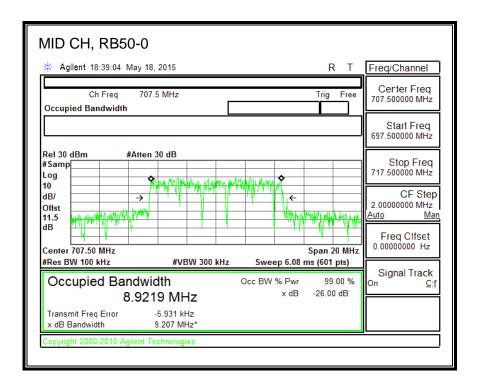
16QAM, (5.0 MHz BAND WIDTH)



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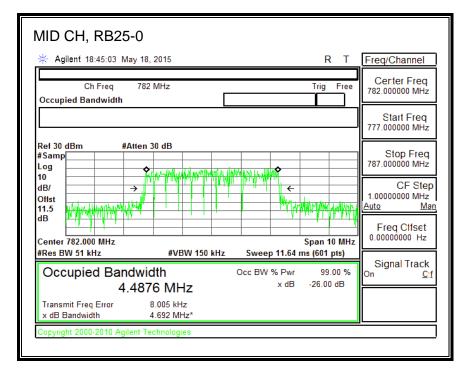
16QAM, (10.0 MHz BAND WIDTH)



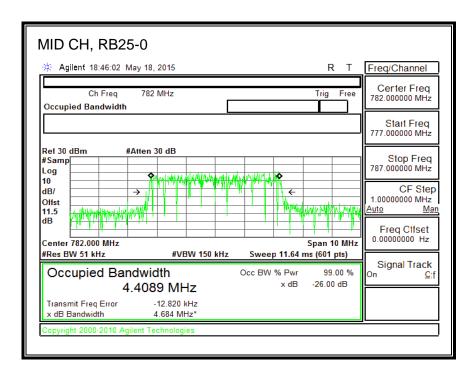
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8.2.6. LTE BAND 13

QPSK, (5.0 MHz BAND WIDTH)



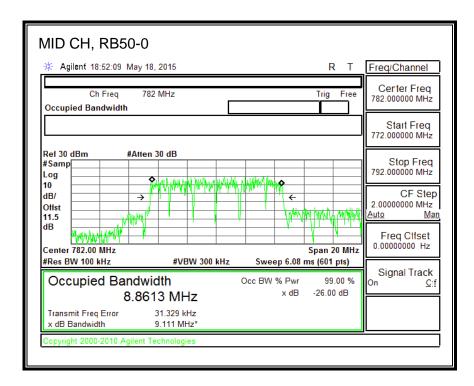
16QAM, (5.0 MHz BAND WIDTH)



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MID CH, RB50-0				
🔆 Agilent 18:47:35 May 18, 2	015		RT	Freq/Channel
Ch Freq 782 M Occupied Bandwidth	IHz		Trig Free	Certer Freq 782.000000 MHz
	L			Start Freq 772.000000 MHz
Ref 30 dBm #Atten 30 #Samp				Stop Freq 792.000000 MHz
10 0 dB/ → 0 Offst 11.5 0000000000000000000000000000000000	vennet fra transferiet		it w ^{ang} a Akada Isa	CF Step 2.00000000 MHz <u>Auto Man</u>
dB	<u> </u>		Span 20 MHz	Freq Clfset 0.00000000 Hz
#Res BW 100 kHz	#VBW 300 kHz	Sweep 6.08 ı	•	
Occupied Bandwidt 8.8303		Occ BW % Pwr x dB		Signal Track ^{On <u>C</u>:f}
	221 kHz 158 MHz*			
Copyright 2000-2010 Agilent Tech	nologies			

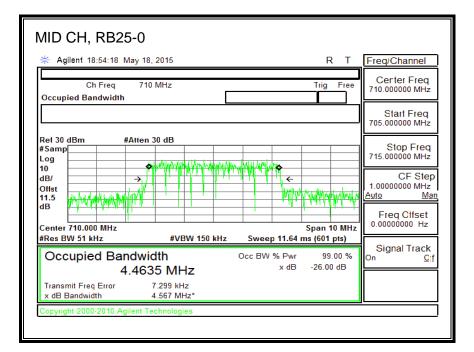
16QAM, (10.0 MHz BAND WIDTH)



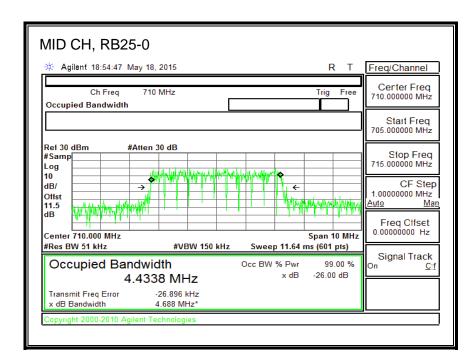
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8.2.7. LTE BAND 17

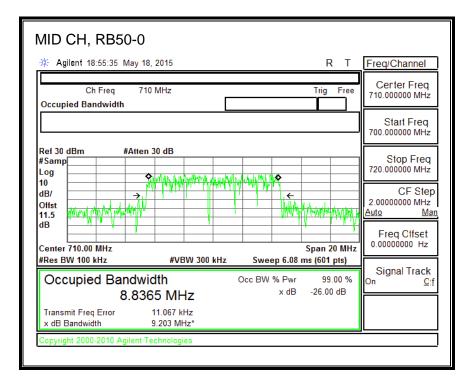
QPSK, (5.0 MHz BAND WIDTH)



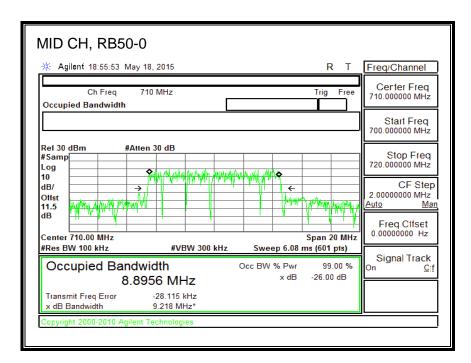
16QAM, (5.0 MHz BAND WIDTH)



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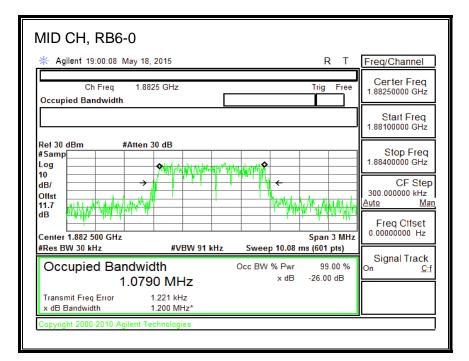
16QAM, (10.0 MHz BAND WIDTH)



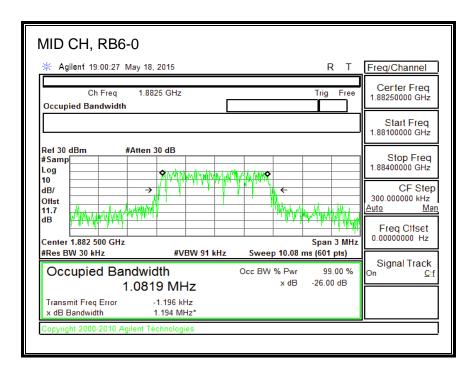
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8.2.8. LTE BAND 25

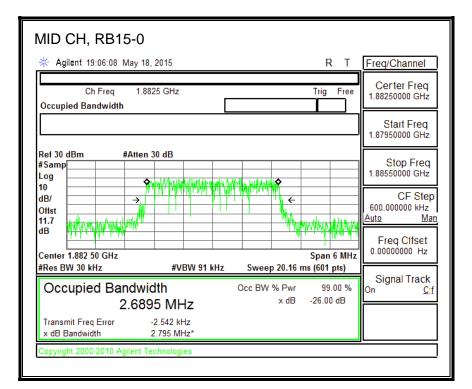
QPSK, (1.4 MHz BAND WIDTH)



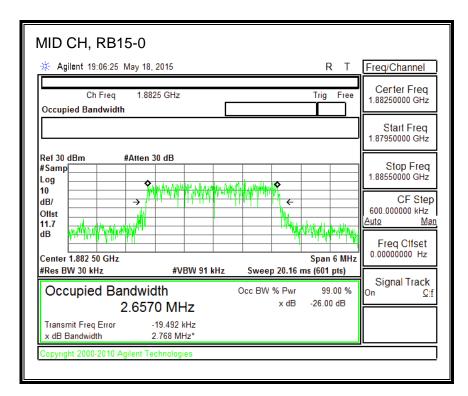
16QAM, (1.4 MHz BAND WIDTH)



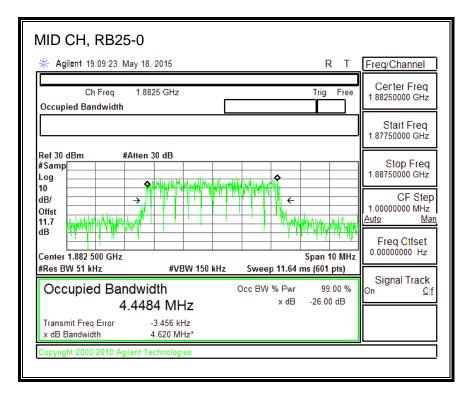
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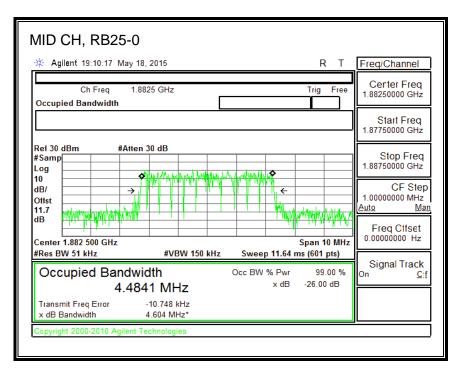
16QAM, (3.0 MHz BAND WIDTH)



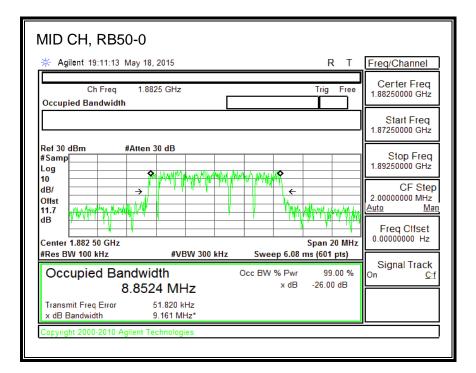
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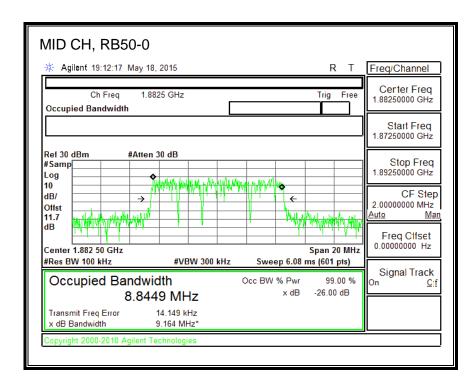
16QAM, (5.0 MHz BAND WIDTH)



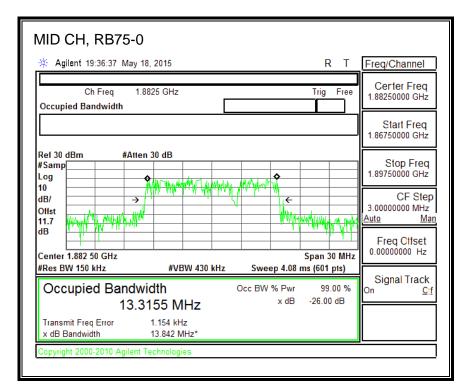
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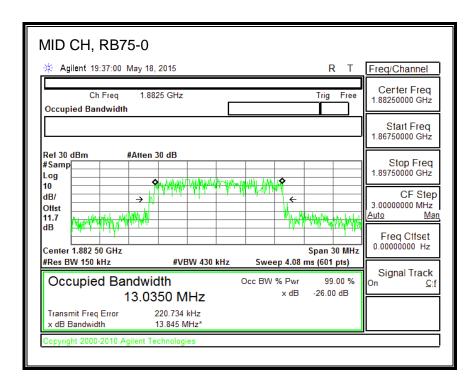
16QAM, (10.0 MHz BAND WIDTH)



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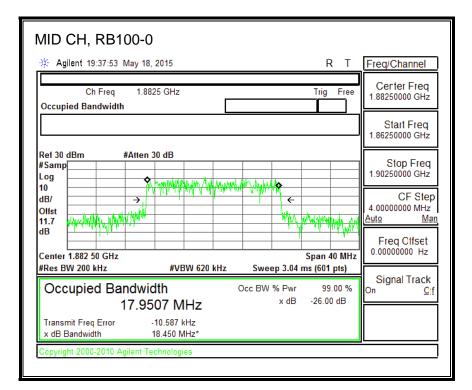


16QAM, (15.0 MHz BAND WIDTH)

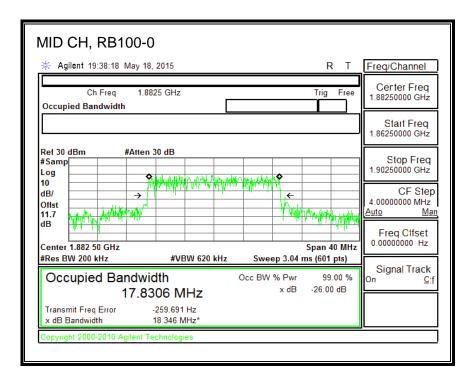


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QPSK, (20.0 MHz BAND WIDTH)



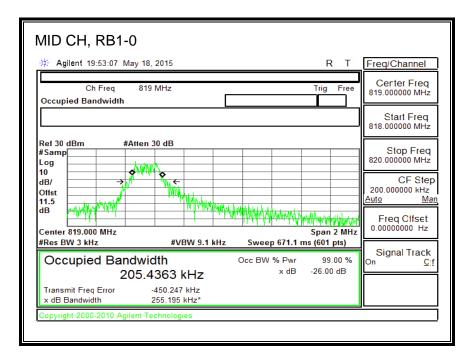
16QAM, (20.0 MHz BAND WIDTH)

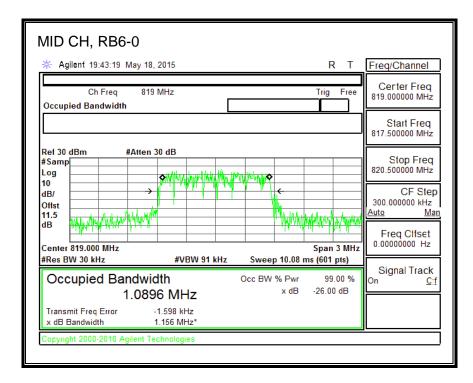


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8.2.9. LTE BAND 26

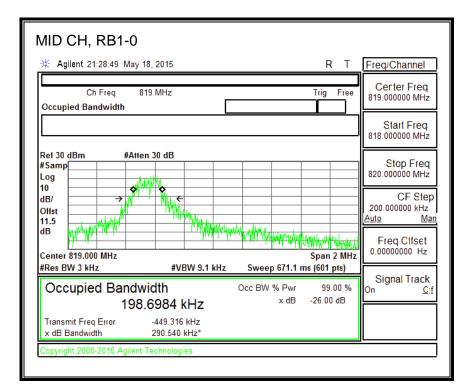
QPSK, (1.4 MHz BAND WIDTH)

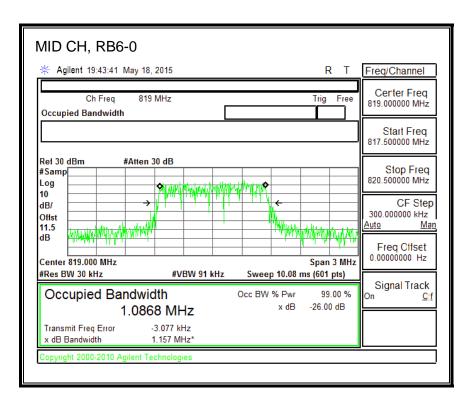




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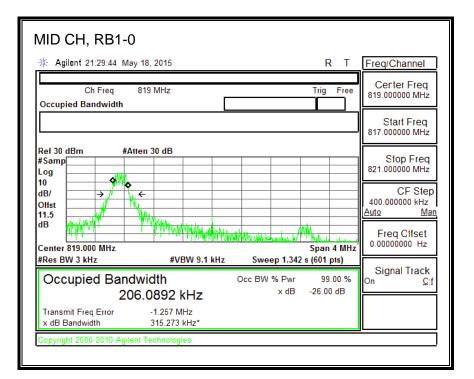
16QAM, (1.4 MHz BAND WIDTH)

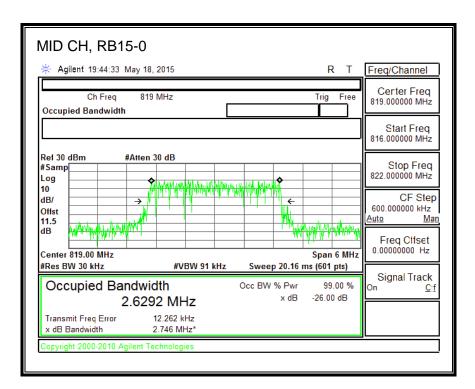




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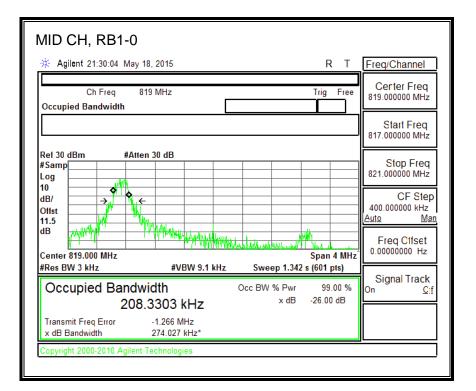
QPSK, (3.0 MHz BAND WIDTH)

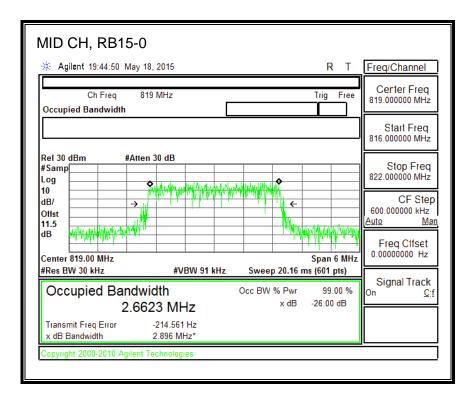




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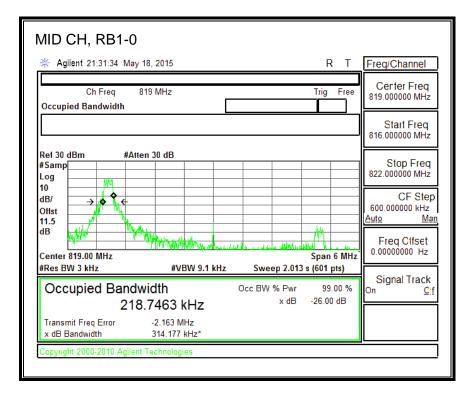
16QAM, (3.0 MHz BAND WIDTH)

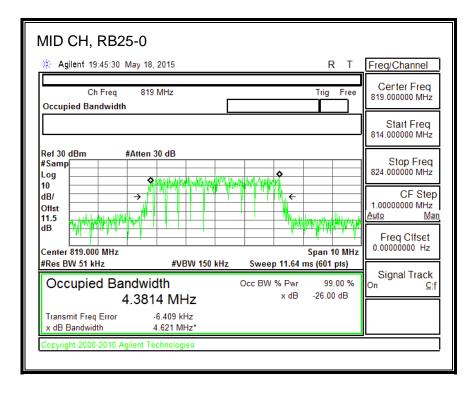




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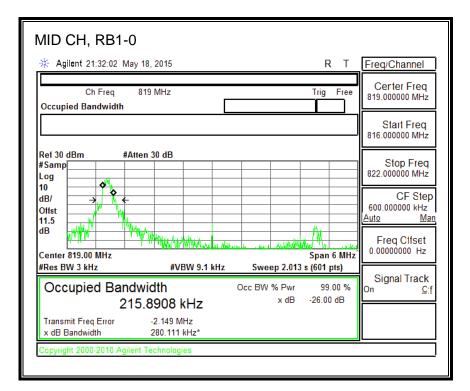
QPSK, (5.0 MHz BAND WIDTH)

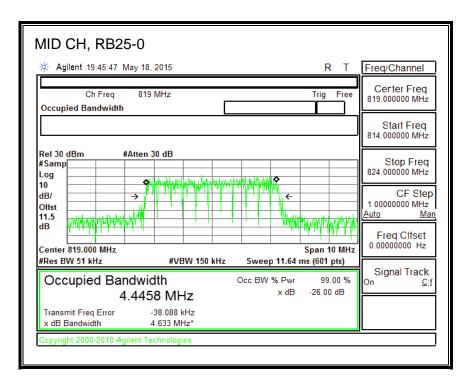




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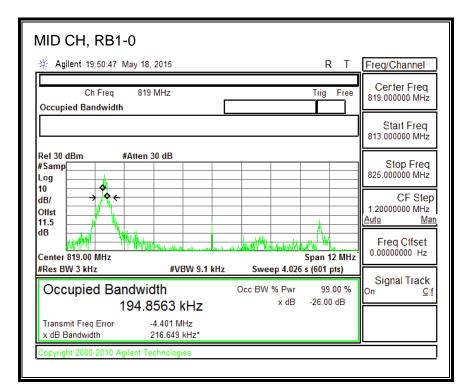
16QAM, (5.0 MHz BAND WIDTH)

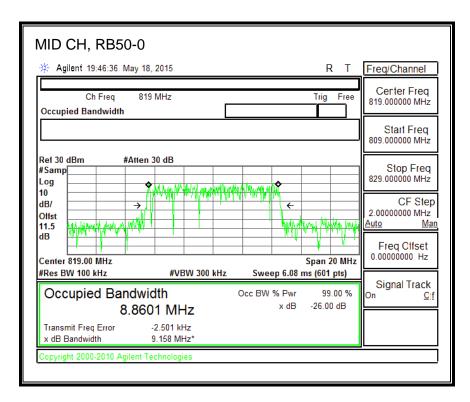




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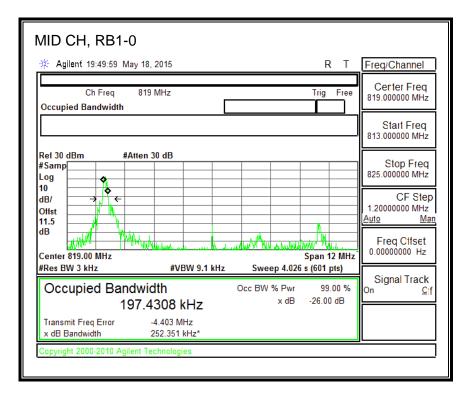
QPSK, (10.0 MHz BAND WIDTH)

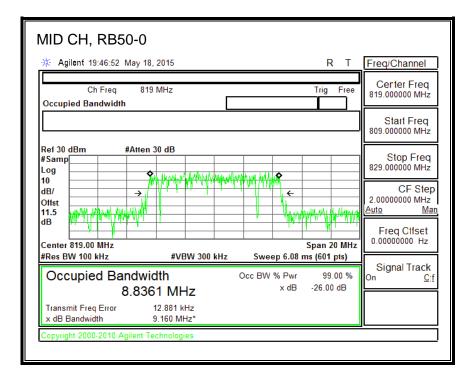




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16QAM, (10.0 MHz BAND WIDTH)

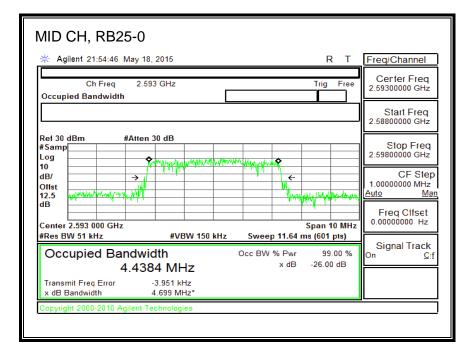




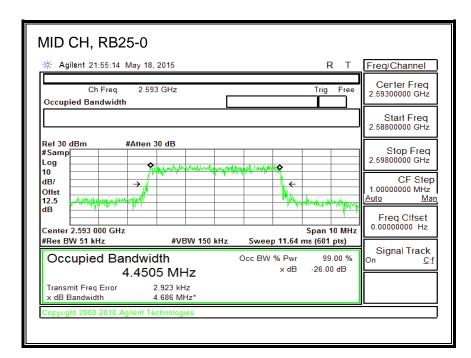
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8.2.10. LTE BAND 41

QPSK, (5.0 MHz BAND WIDTH)



16QAM, (5.0 MHz BAND WIDTH)



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QPSK, (10.0 MHz BAND WIDTH)

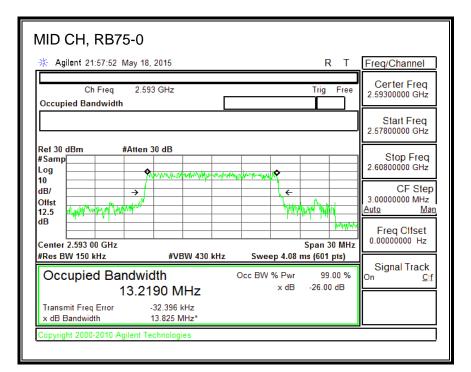
MID CH, RB50-0	
☆ Agilent 21:56:13 May 18, 2015	Freq/Channel
Ch Freq 2.593 GHz Trig Free Occupied Bandwidth	Certer Freq 2.59300000 GHz
	Start Freq 2.58300000 GHz
Ref 30 dBm #Atten 30 dB #Samp	Stop Freq 2.6030000 GHz
	CF Step 2.00000000 MHz <u>Auto Man</u>
dBCenter 2.593 00 GHz Span 20 MHz	Freq Clfset 0.00000000 Hz
#Res BW 100 kHz	Signal Track
Occupied Bandwidth Occ BW % Pwr 99.00 % 8.8254 MHz × dB -26.00 dB	On <u>Cif</u>
Transmit Freq Error 33.568 kHz x dB Bandwidth 9.356 MHz*	
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16QAM, (10.0 MHz BAND WIDTH)

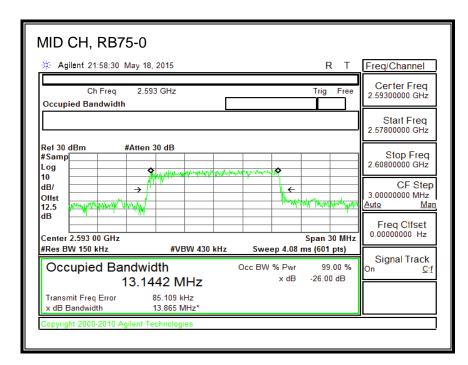
MID CH, RB50-0				
🔆 Agilent 21:56:41 May 18	, 2015		RΤ	Freq/Channel
Ch Freq 2.59 Occupied Bandwidth	03 GHz		Trig Free	Certer Freq 2.59300000 GHz
	L			Start Freq 2.58300000 GHz
Ref 30 dBm #Atten #Samp Log				Stop Freq 2.60300000 GHz
10 dB/ Offst 12.5 wh/m/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w/w	and a construction of the second s	↓ ←	han Manghala Manghagka	CF Step 2.0000000 MHz Auto Man
dB Center 2.593 00 GHz			Span 20 MHz	Freq Clifset 0.00000000 Hz
#Res BW 100 kHz	#VBW 300 kHz	Sweep 6.08 r		
Occupied Bandwi 8.88	dth I6 MHz	Occ BW % Pwr x dB	99.00 % -26.00 dB	Signal Track On <u>Cif</u>
	4.883 kHz 9.337 MHz*			
Copyright 2000-2010 Agilent To	echnologies]

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QPSK, (15.0 MHz BAND WIDTH)

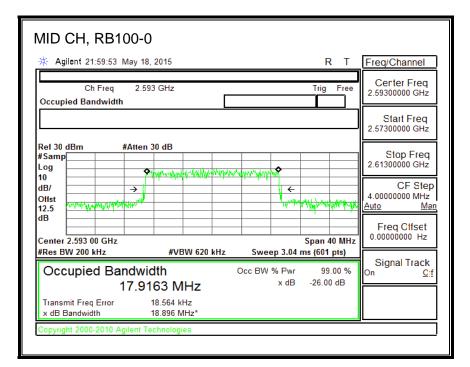


16QAM, (15.0 MHz BAND WIDTH)



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QPSK, (20.0 MHz BAND WIDTH)



16QAM, (20.0 MHz BAND WIDTH)

MID CH, RB100-0				
🔆 Agilent 22:00:19 May 18, 2	2015		RТ	Freq/Channel
Ch Freq 2.593 Occupied Bandwidth	GHz		Trig Free	Certer Freq 2.59300000 GHz
				Start Freq 2.57300000 GHz
Ref 30 dBm #Atten 3 #Samp Log	0 dB			Stop Freq 2.61300000 GHz
10 dB/ → Offst 12.5	and the profit freezes where		Ang Markawa ang Ma	CF Step 4.00000000 MHz Auto Mar
dB Center 2.593 00 GHz		Sp	an 40 MHz	Freq Clfset 0.00000000 Hz
#Res BW 200 kHz	#VBW 620 kHz	Sweep 3.04 ms		
Occupied Bandwid 17.828	th 30 MHz	Occ BW % Pwr x dB -2	99.00 % 26.00 dB	Signal Track ^{On <u>C</u>!f}
	4.488 kHz 8.389 MHz*			
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8.3. BANDEDGE AND EMISSION MASK (MODEL: A1633)

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, and §90.691

<u>LIMITS</u>

FCC: §24.238, §27.53

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.

FCC: §90.210, and §90.691 (LTE BAND 26)

(a)(1)For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10 (f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2)For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE: Use 100 kHz reference bandwidth.)

FCC: §27.53

(c) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

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FCC: §27.53 (LTE BAND 41)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P) dB$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P) dB$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P) dB$ on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.Show citation box.

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FCC: §90.210, and §90.691

(a)(1)For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2)For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. {NOTE: Use 100 kHz reference bandwidth.}

TEST PROCEDURE

The transmitter output was connected to a CMW500Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

Set the spectrum analyzer span to include the block edge frequency (704, 716, 824, 849, 1710 and 1755, 1850 and 1910MHz)

Set a marker to point the corresponding band edge frequency in each test case.

Set display line at -13 dBm

Set resolution bandwidth to at least 1% of emission bandwidth.

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MODES TESTED

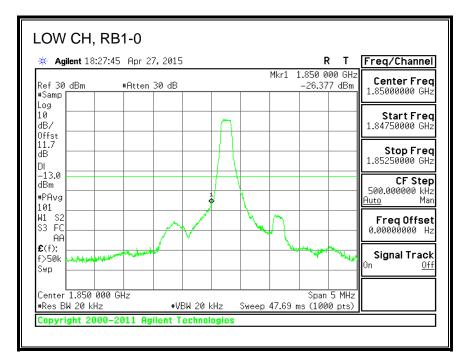
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- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41

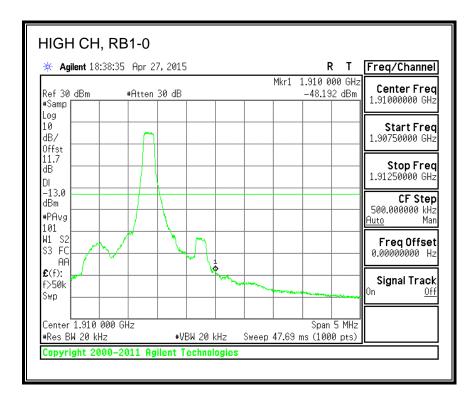
RESULTS

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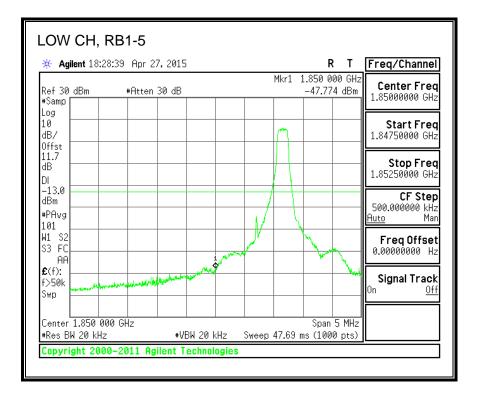
8.3.1. LTE BAND 2 BANDEDGE

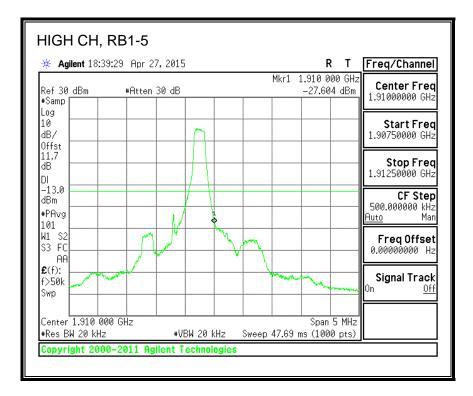
QPSK, (1.4 MHz BAND WIDTH)



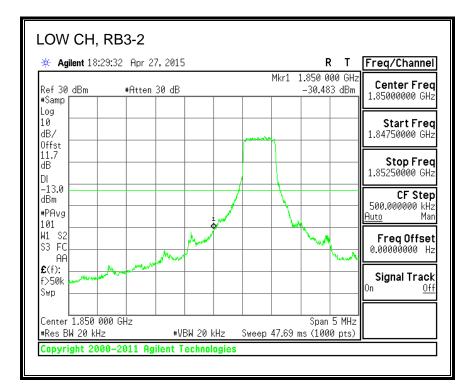


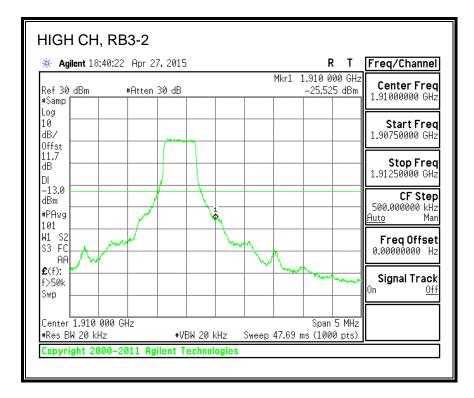
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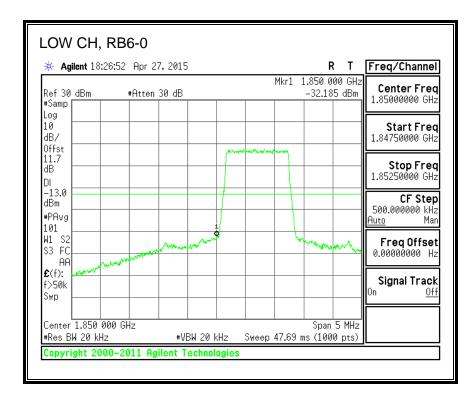


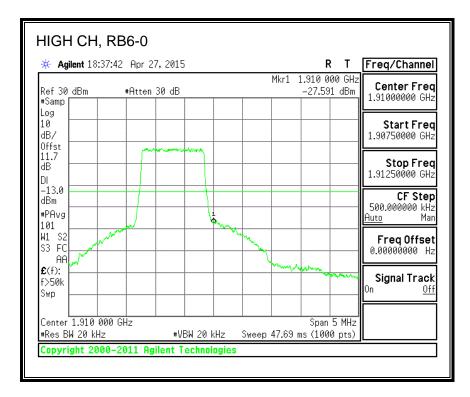
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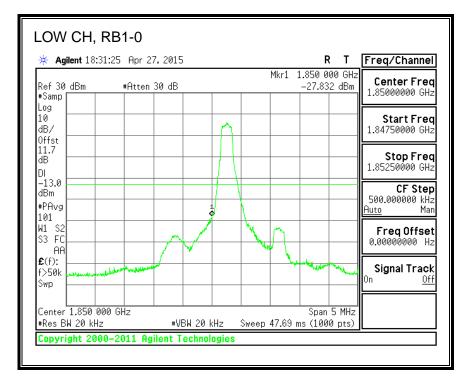
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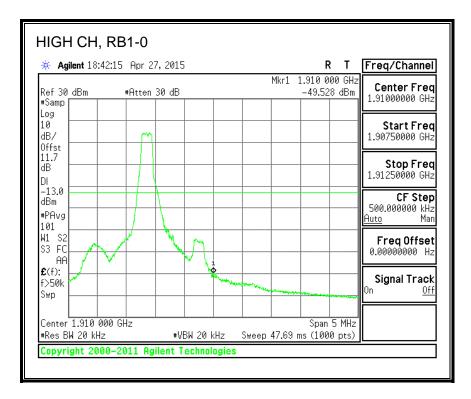




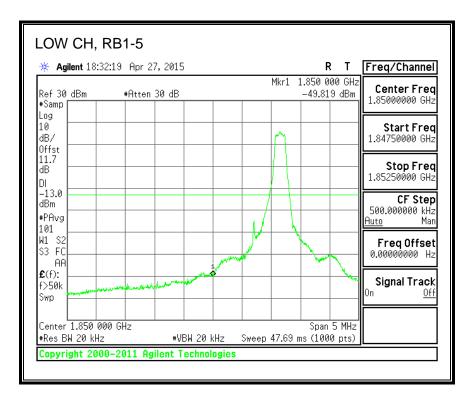
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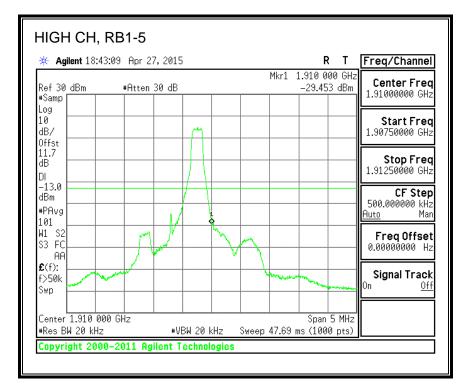
16QAM, (1.4 MHz BAND WIDTH)



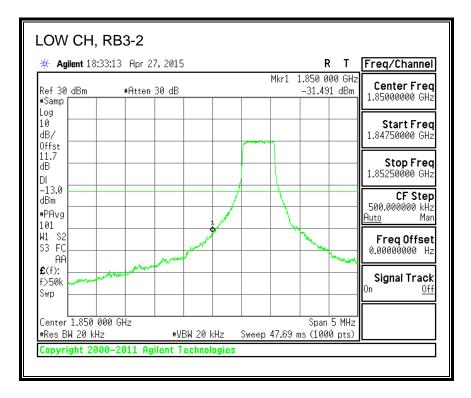


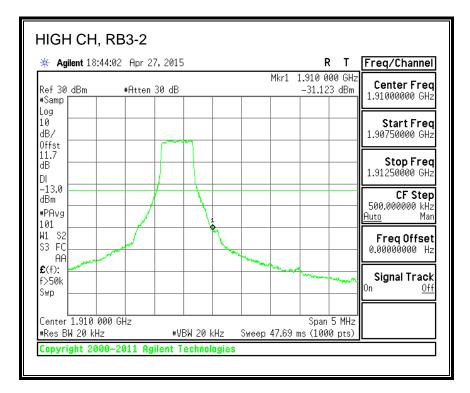
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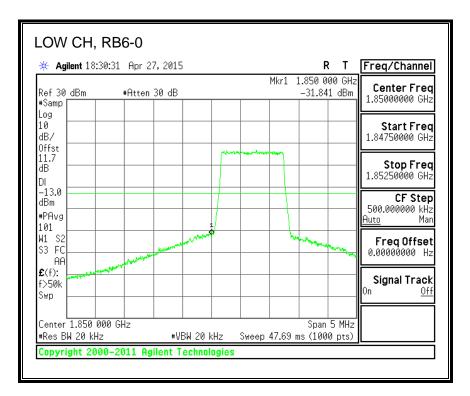


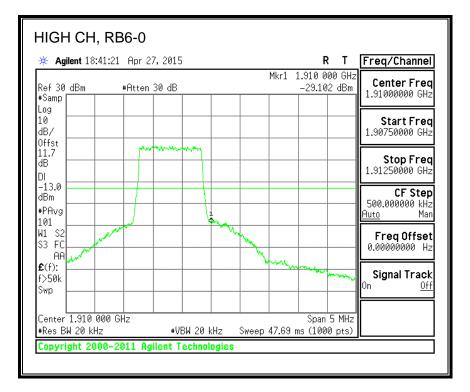
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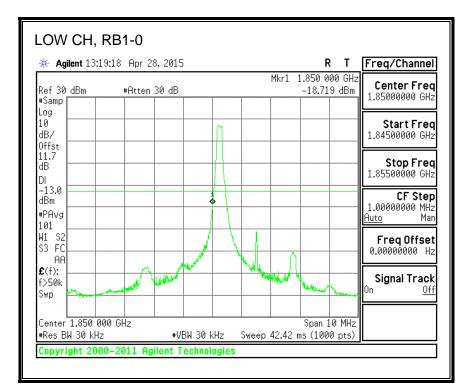
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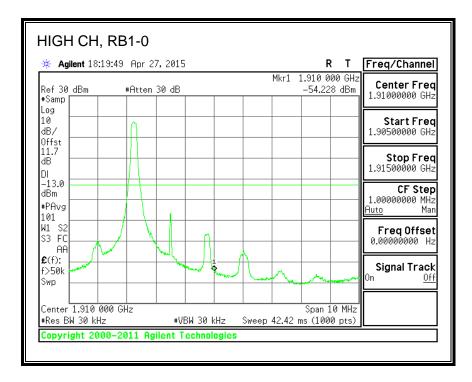




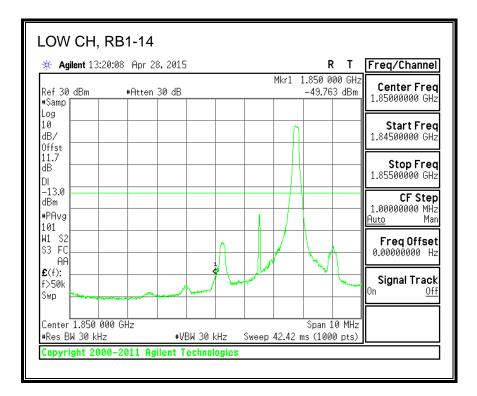
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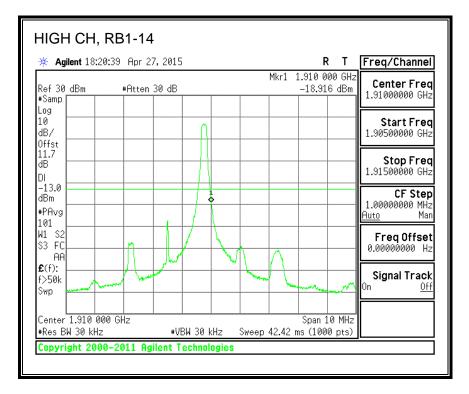
QPSK, (3.0 MHz BAND WIDTH)



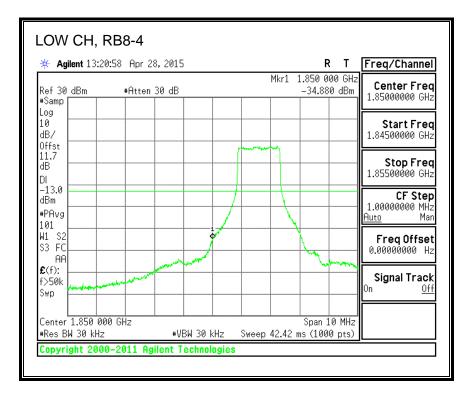


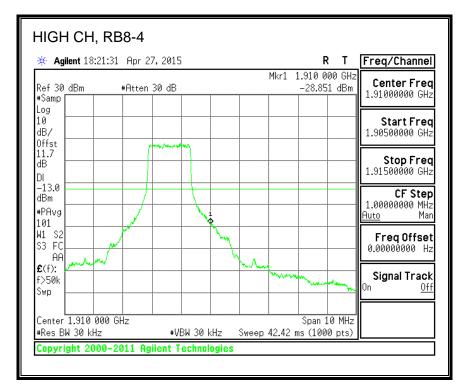
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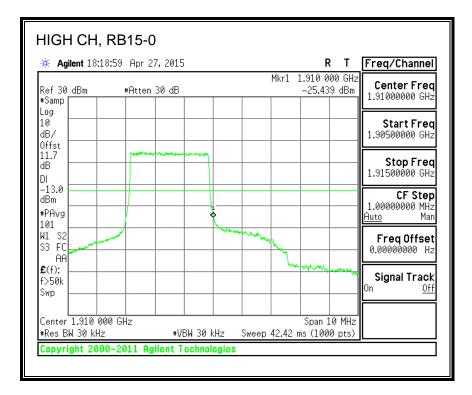
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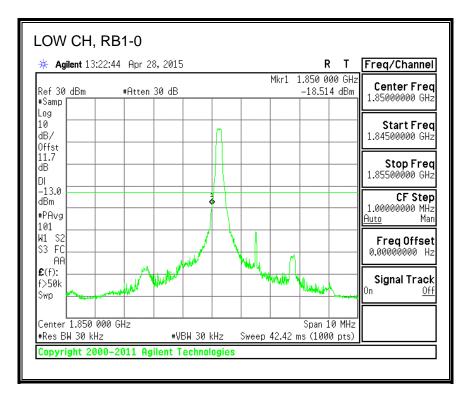
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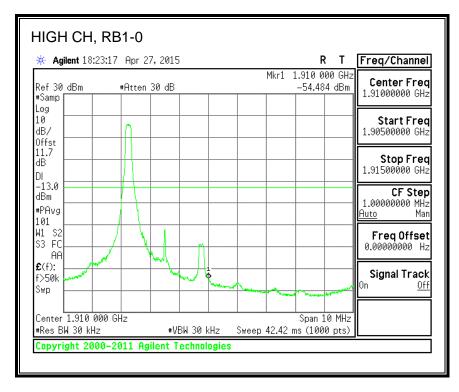
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Log 10 dB/ Offst									 Start Frec 1.84500000 GHz
11.7 dB DI									 Stop Freq 1.85500000 GHz
-13.0 dBm #PAvg 101									CF Step 1.00000000 MHz <u>Auto</u> Mar
W1 S2 S3 FC AA		- mo		لسميد				have	 FreqOffset 0.00000000 Hz
£ (f): f>50k Swp	North Contraction								 Signal Track ^{On <u>Off</u>}
	 1.850 000 √ 30 kHz) GHz	#VB	30 k	Hz	Sweep -	42.42 r	 Span 1 ns (1000	



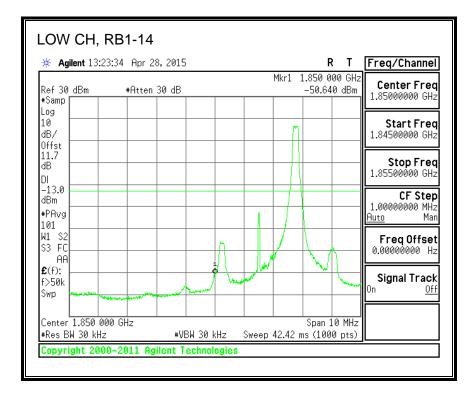
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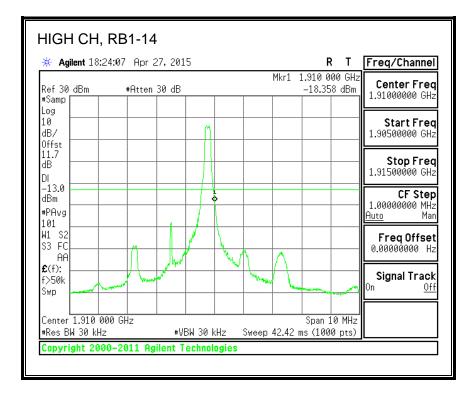
16QAM, (3.0 MHz BAND WIDTH)



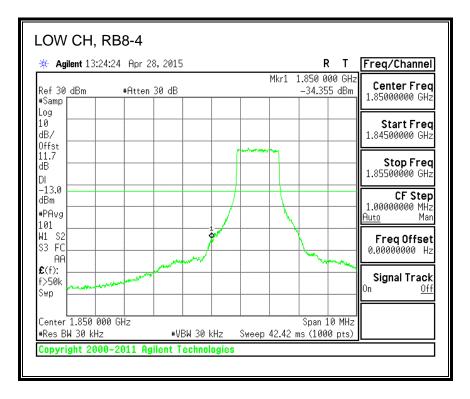


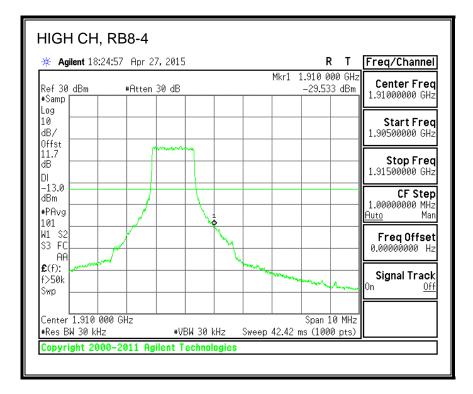
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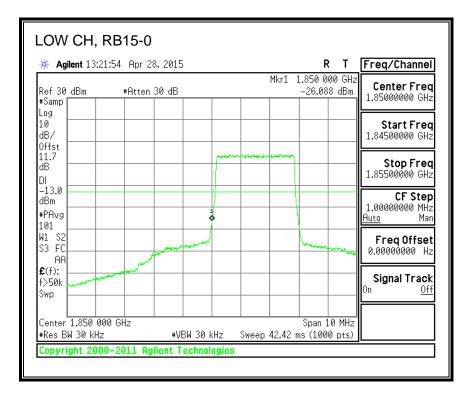


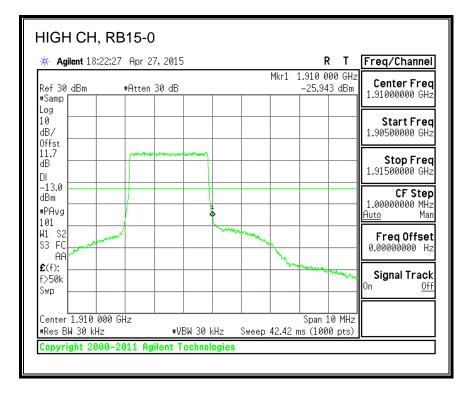
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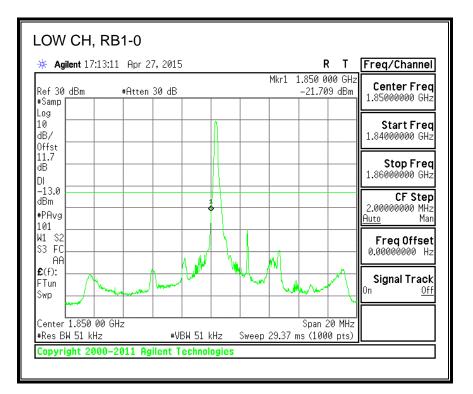
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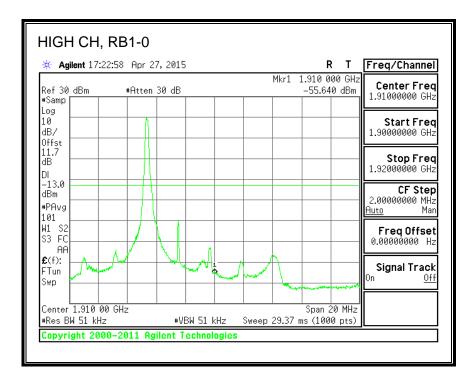




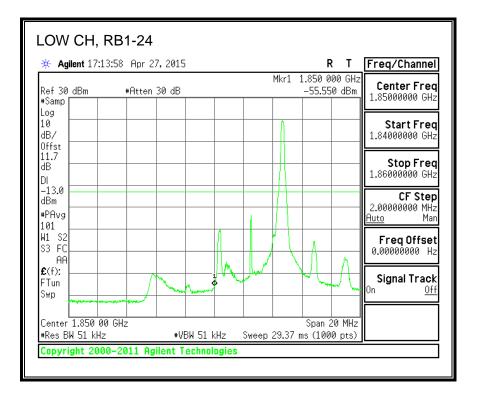
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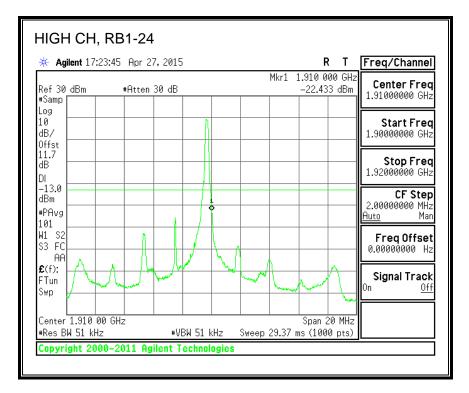
QPSK, (5.0 MHz BAND WIDTH)



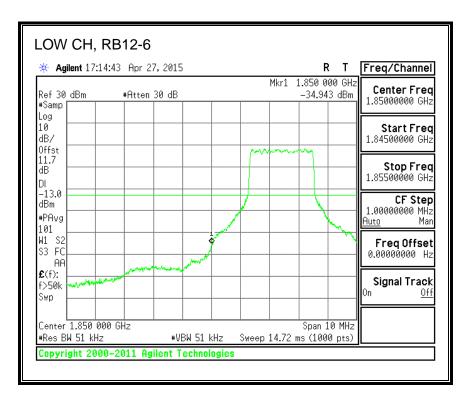


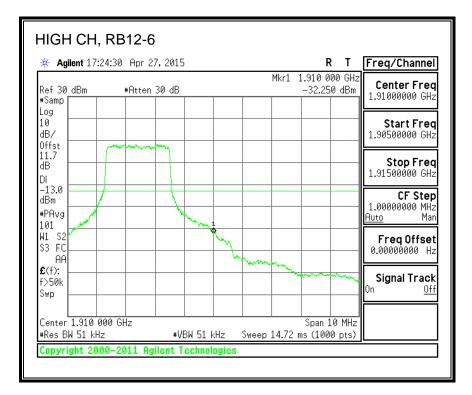
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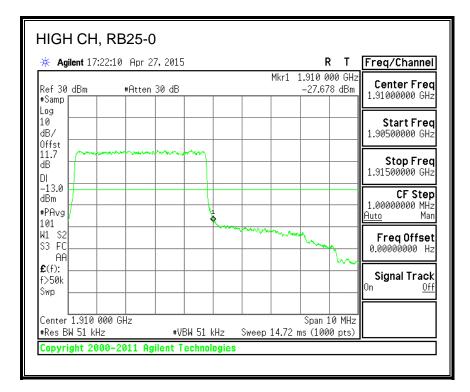
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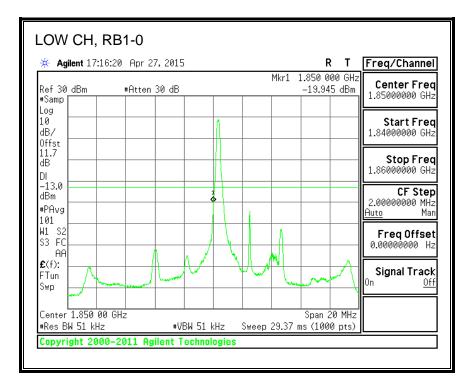
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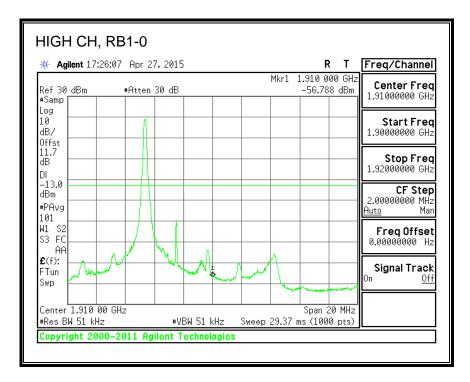
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Log 10 dB/									Start Fred 1.84500000 GHz
Offst 11.7 dB DI						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	*****		Stop Frec 1.85500000 GHz
-13.0 dBm #PAvg 101				1					CF Step 1.00000000 MHz <u>Auto</u> Mar
W1 S2 S3 FC AA			eres and a service						Freq Offset 0.00000000 Hz
£ (f): f>50k Swp									Signal Track ^{On <u>Of</u>i}
	 1.850 000 (√ 51 kHz	Hz	#VBW 5:	l kHz	Sweep 14		Span 1 5 (1000		



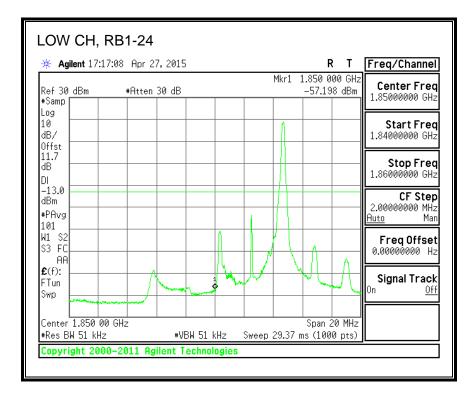
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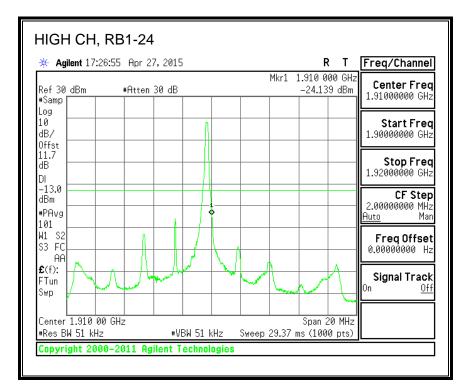
16QAM, (5.0 MHz BAND WIDTH)



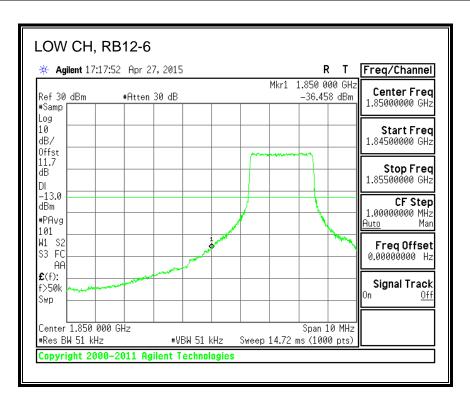


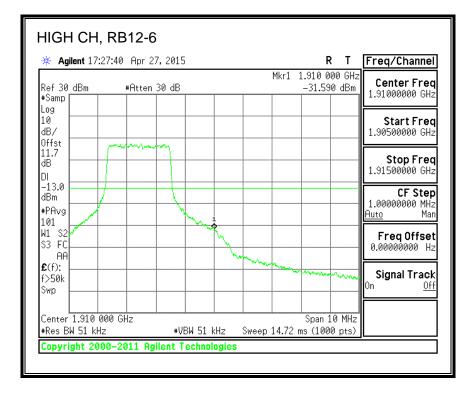
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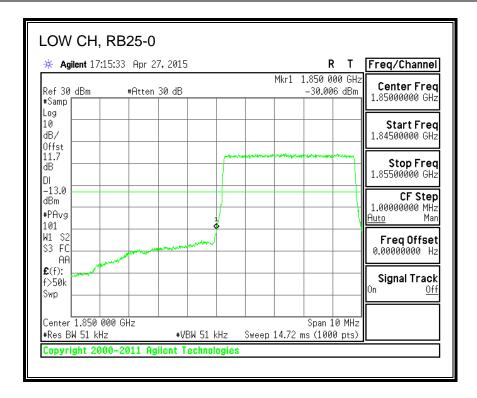


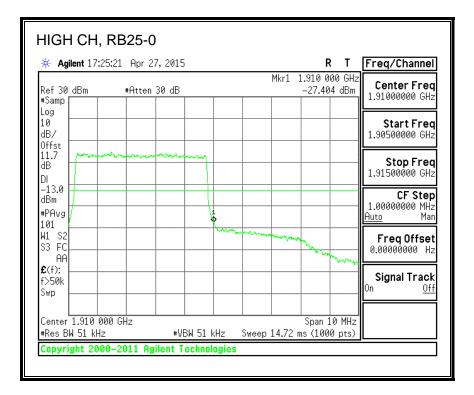
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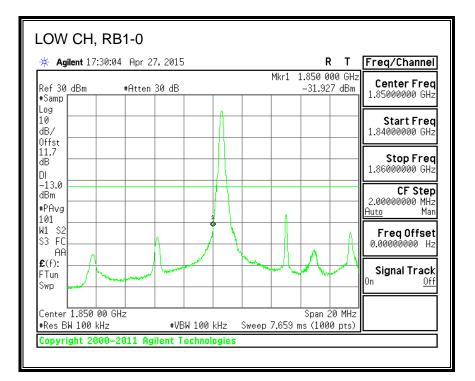
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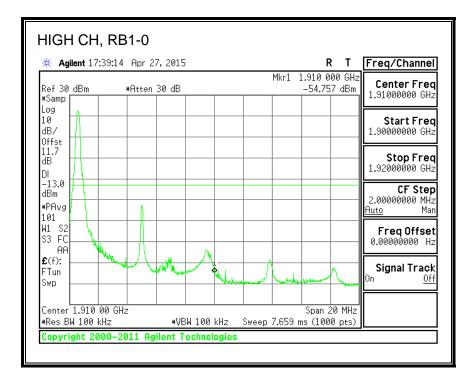




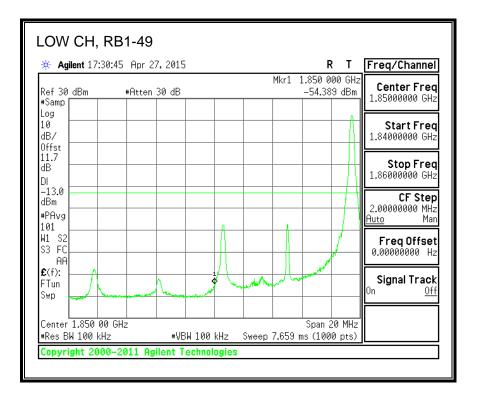
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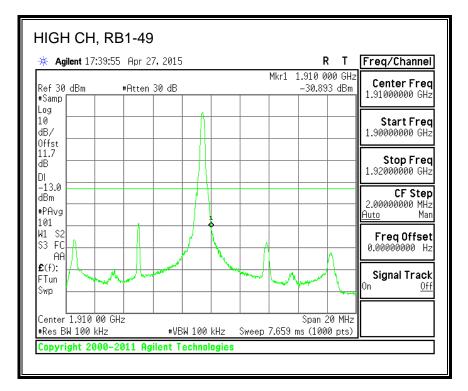
QPSK, (10.0 MHz BAND WIDTH)



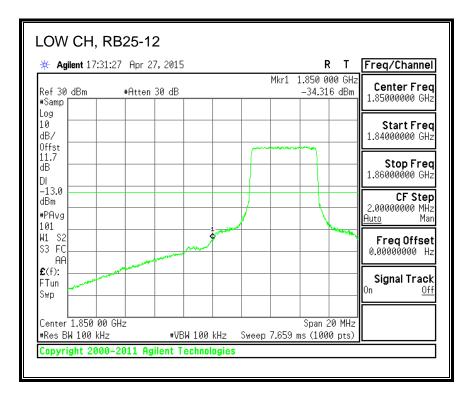


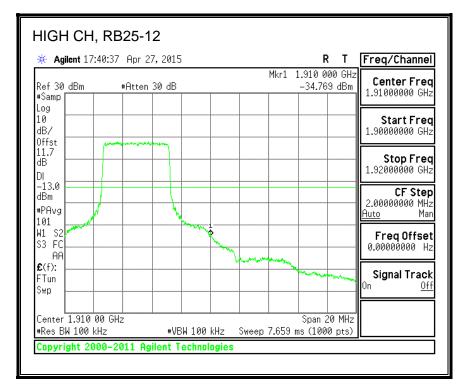
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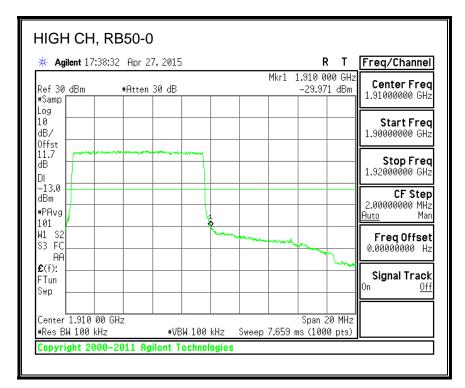
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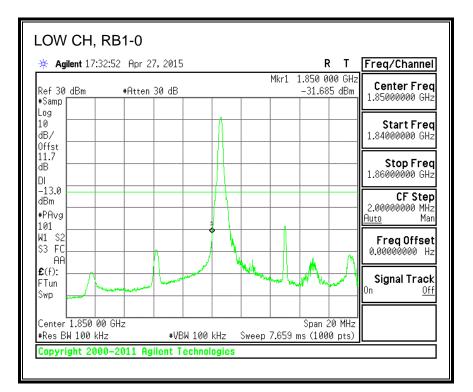
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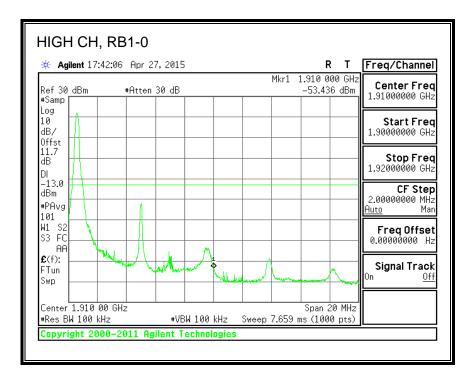
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Log 10 dB/ 0ffst					Start Fred 1.84000000 GHz
11.7 dB DI -13.0					Stop Frec 1.86000000 GHz
-13.0 dBm #PAvg 101		1			CF Step 2.00000000 MHz <u>Auto</u> Mar
W1 S2 S3 FC AA £(f):	and any second and a second second				Freq Offset 0.00000000 Hz
FTun Swp					Signal Track ^{On <u>Off</u>}
Center 1.850 00 (#Res BW 100 kHz		 ₩ 100 kHz	 Sweep 7.659	Span 20 MHz) ms (1000 pts)	



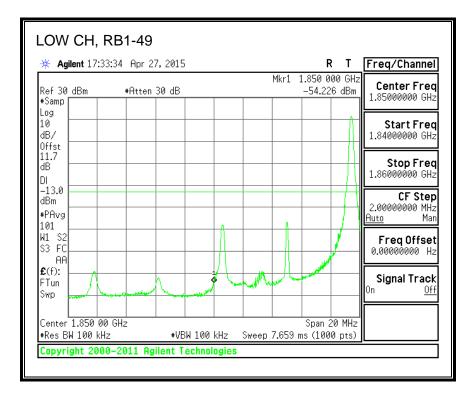
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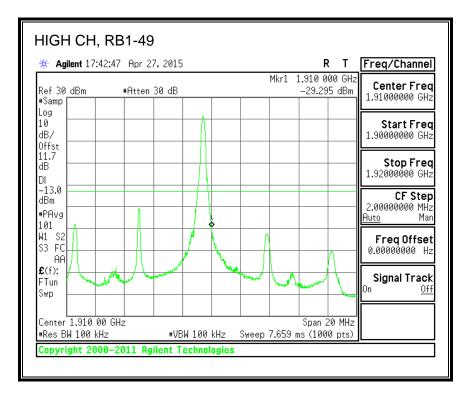
16QAM, (10.0 MHz BAND WIDTH)



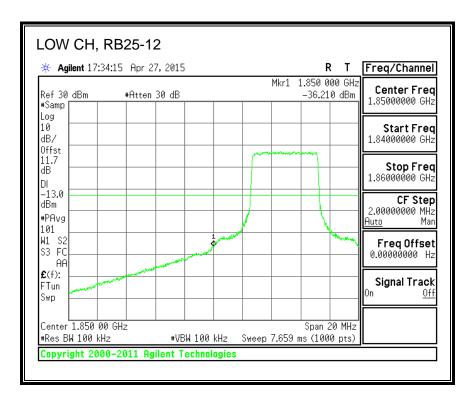


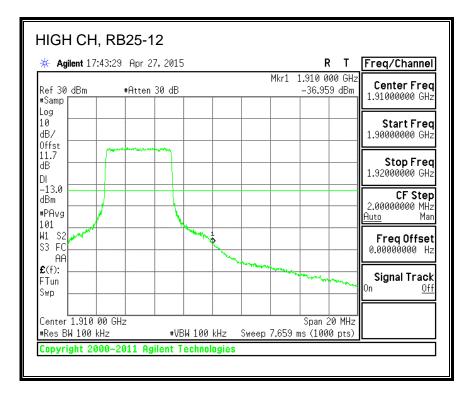
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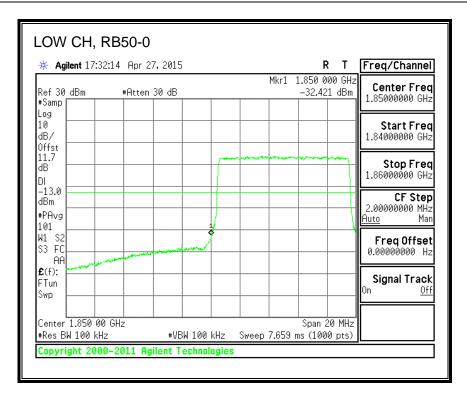


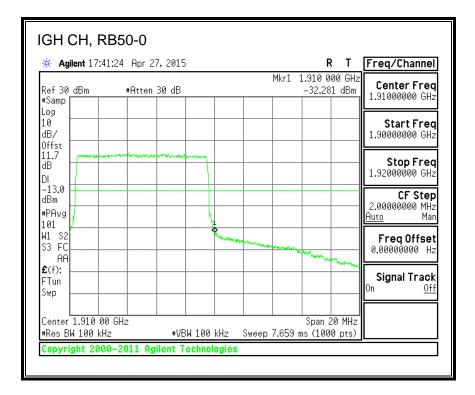
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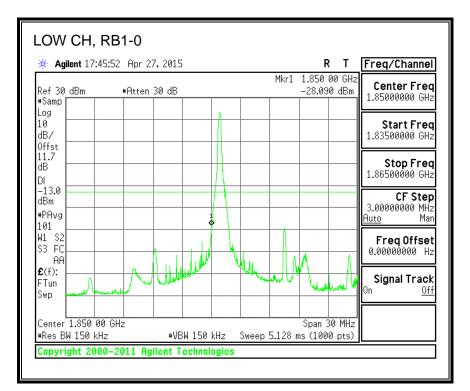
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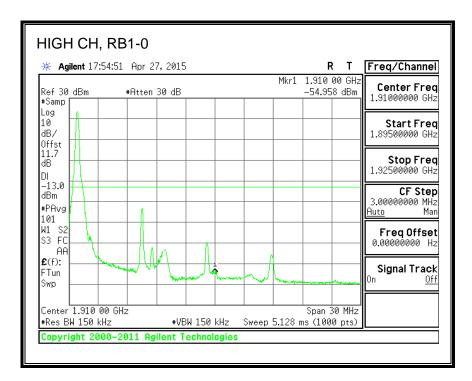




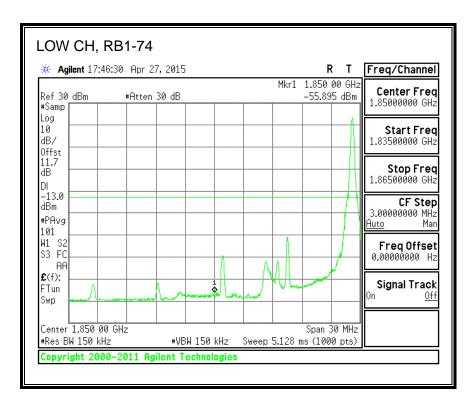
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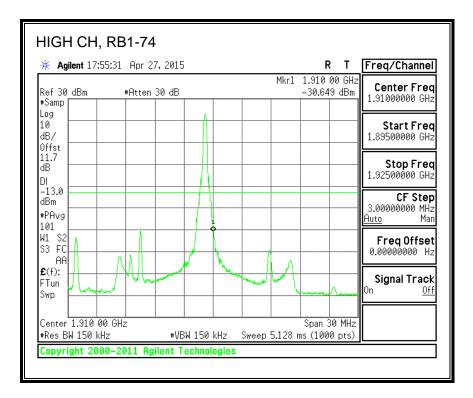
QPSK, (15.0 MHz BAND WIDTH)



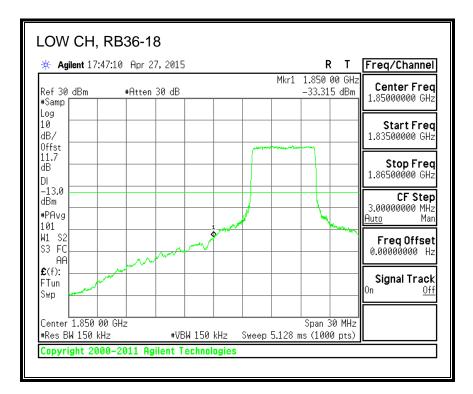


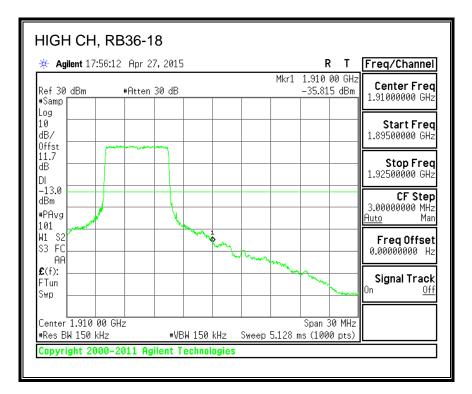
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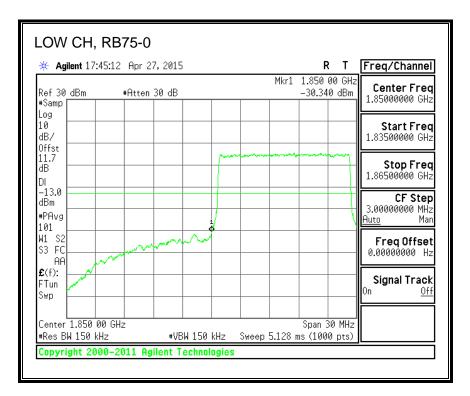


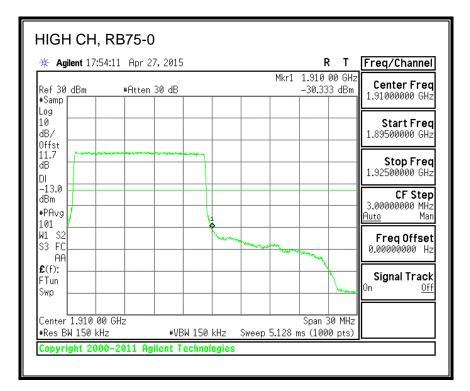
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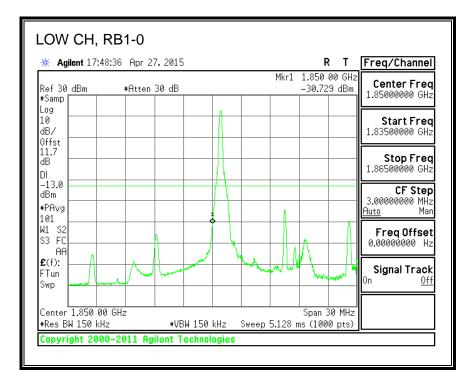
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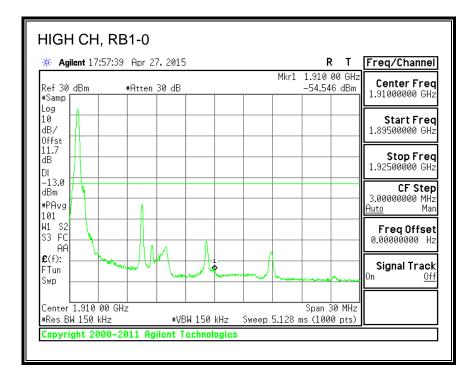




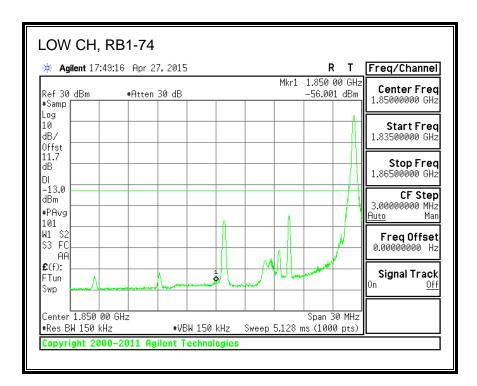
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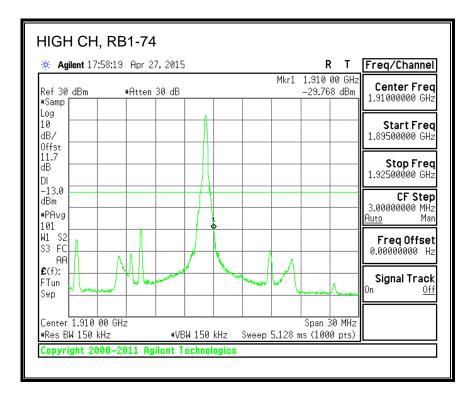
16QAM, (15.0 MHz BAND WIDTH)



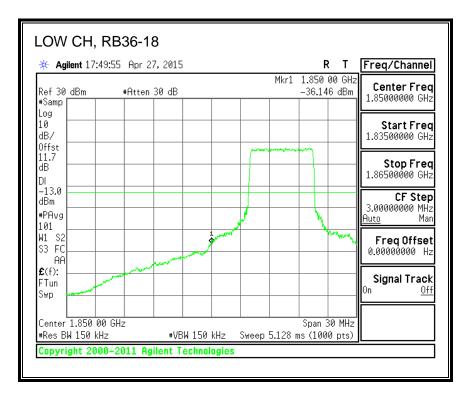


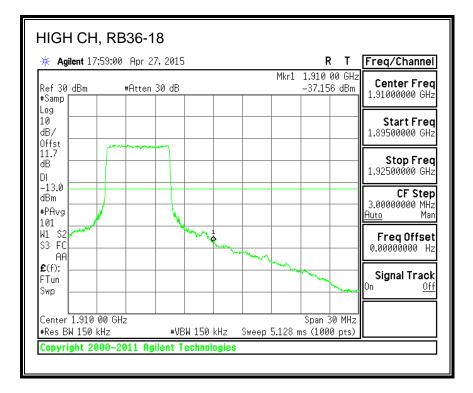
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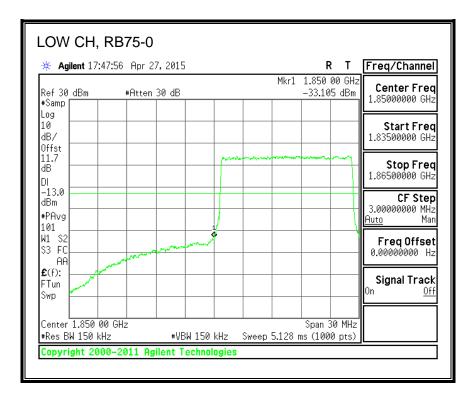


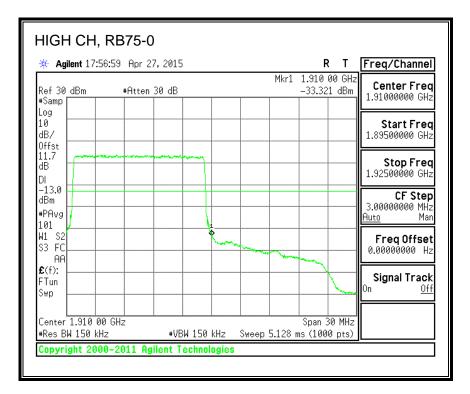
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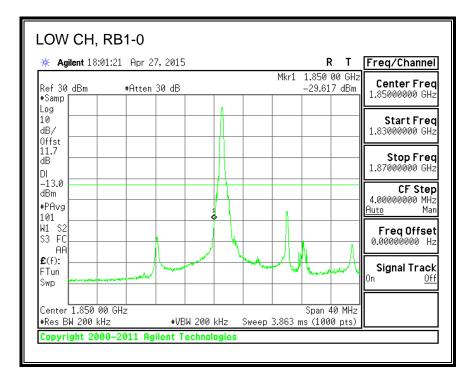
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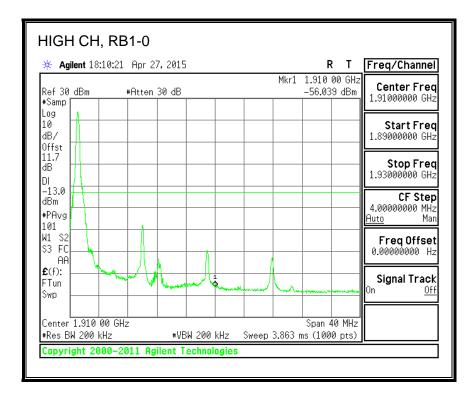




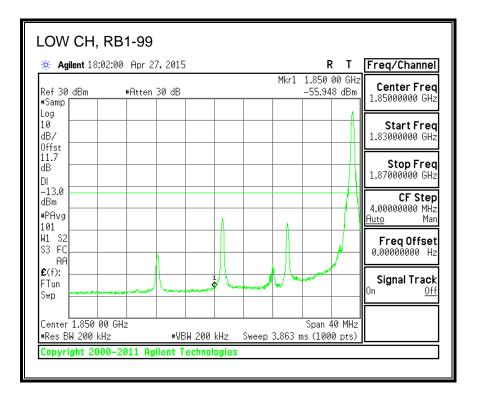
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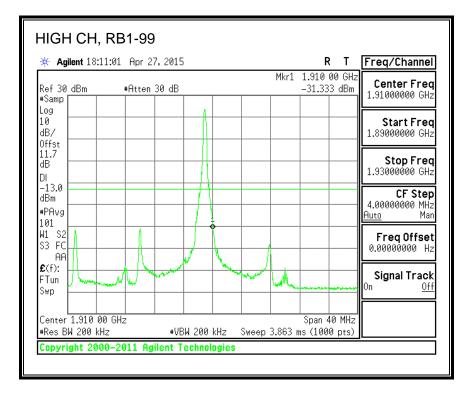
QPSK, (20.0 MHz BAND WIDTH)



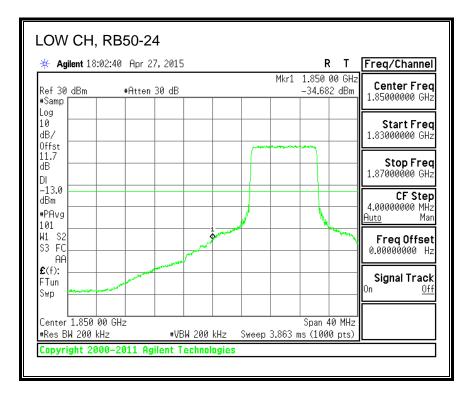


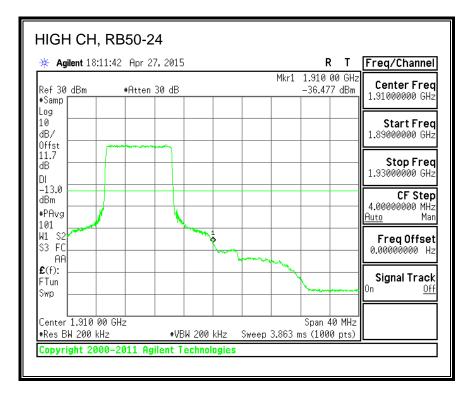
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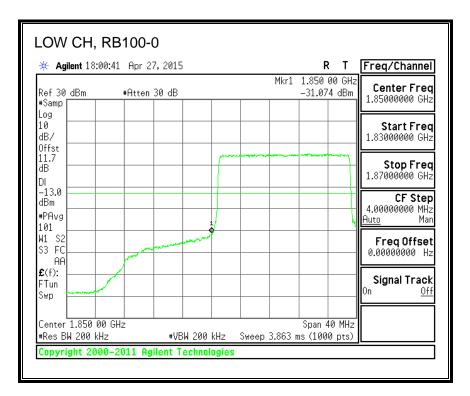


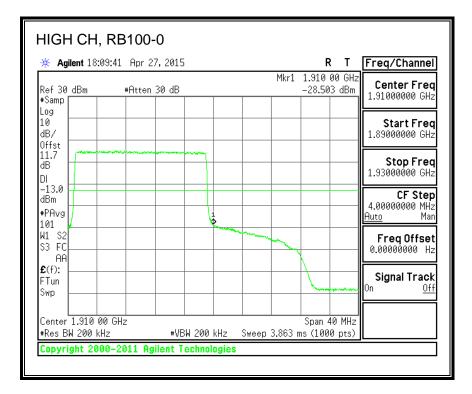
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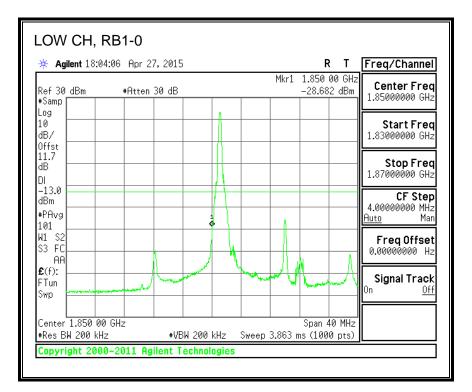
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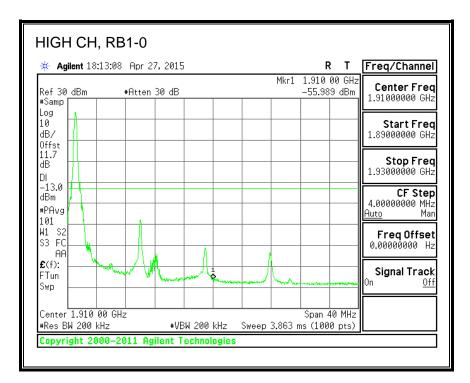




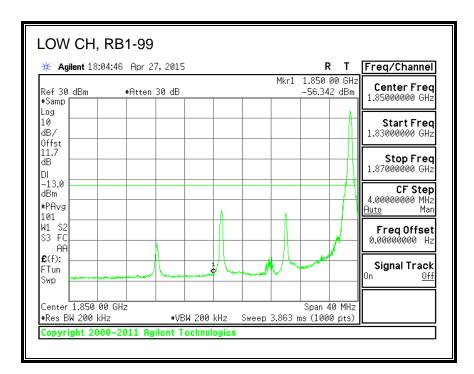
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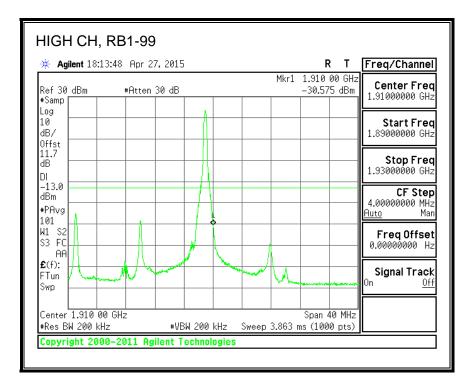
16QAM, (20.0 MHz BAND WIDTH)



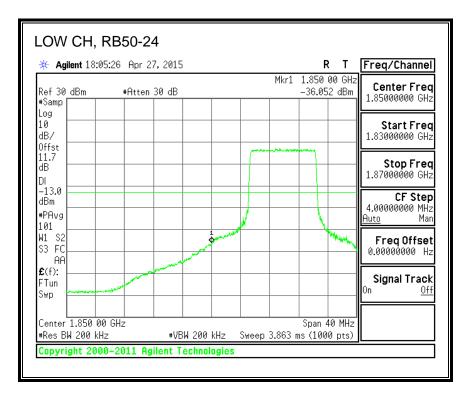


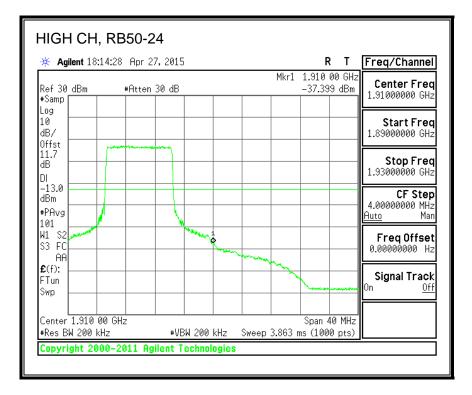
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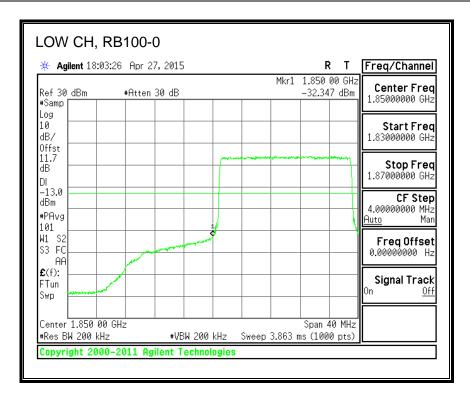


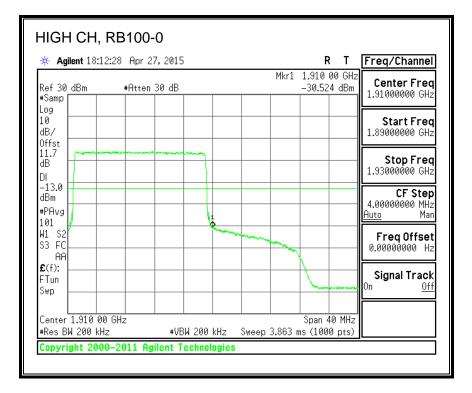
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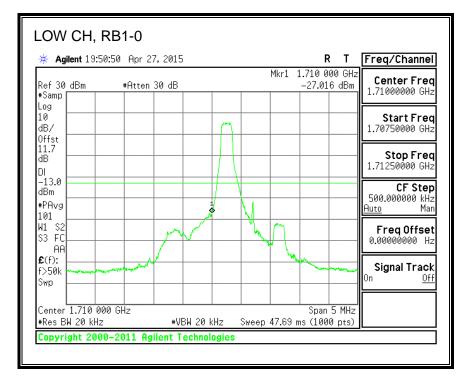


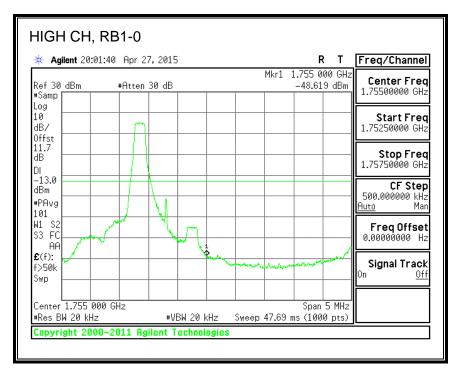


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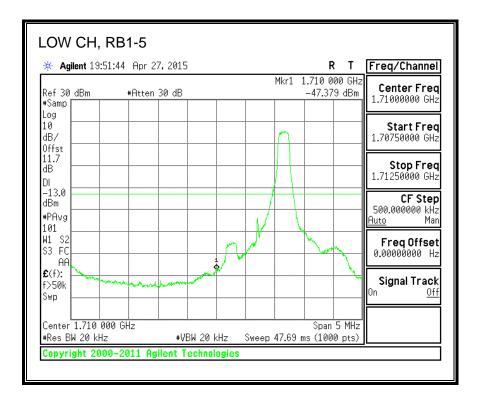
8.3.2. LTE BAND 4 BANDEDGE

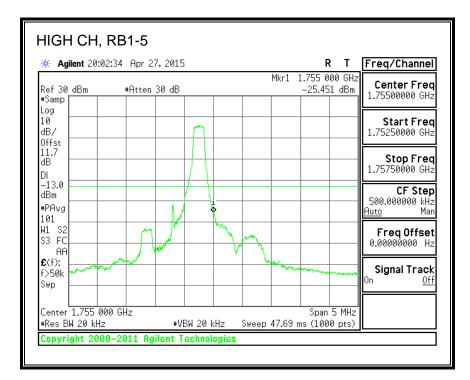
QPSK, (1.4 MHz BAND WIDTH)



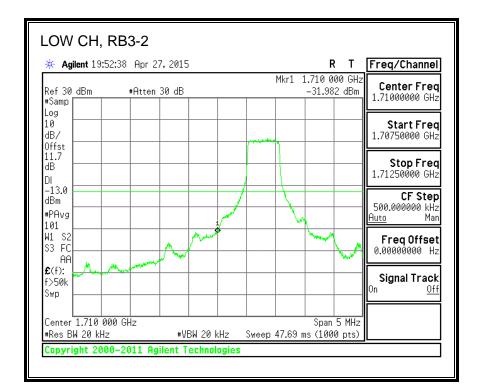


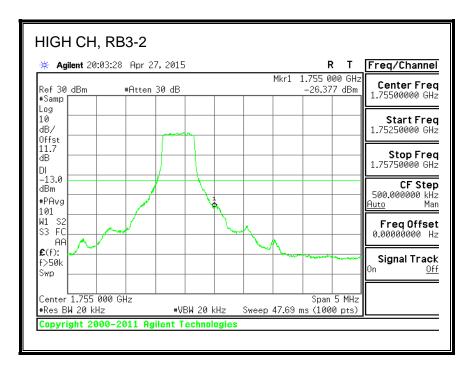
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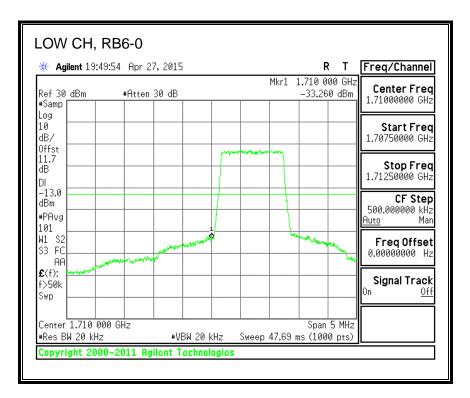


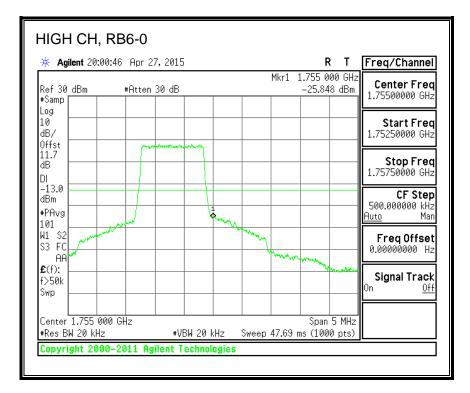
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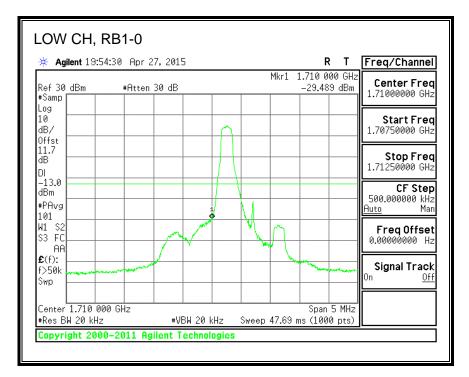
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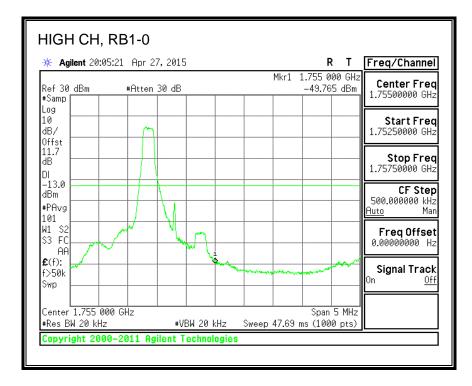




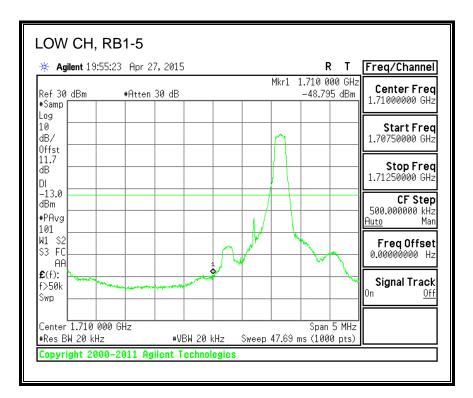
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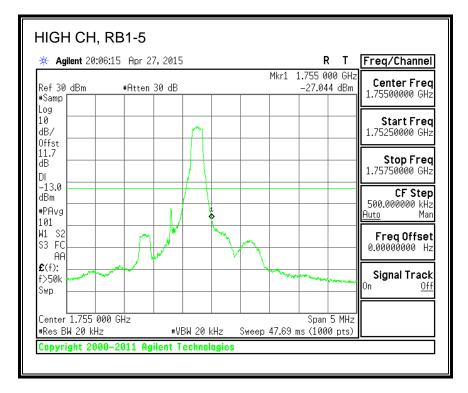
16QAM, (1.4 MHz BAND WIDTH)



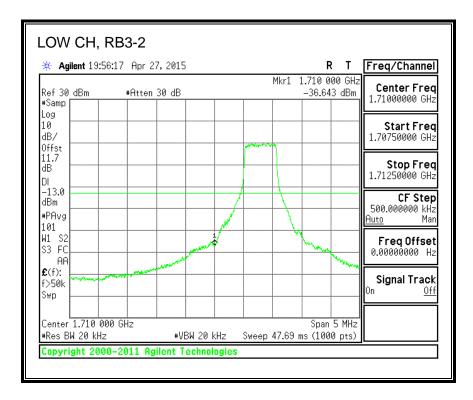


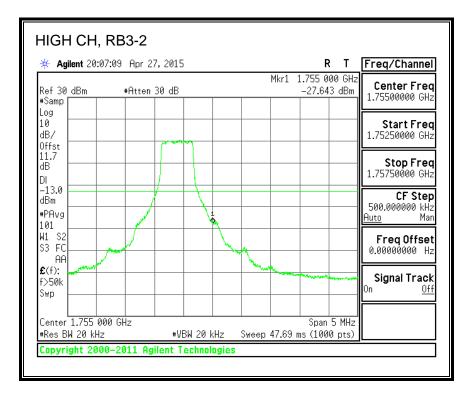
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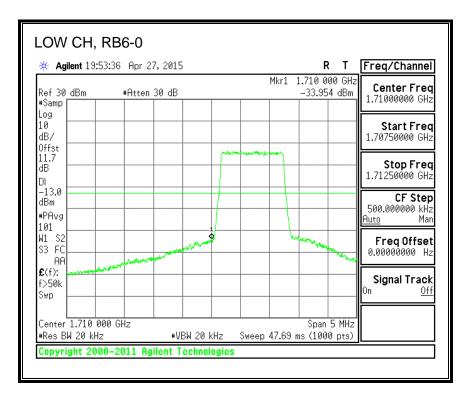


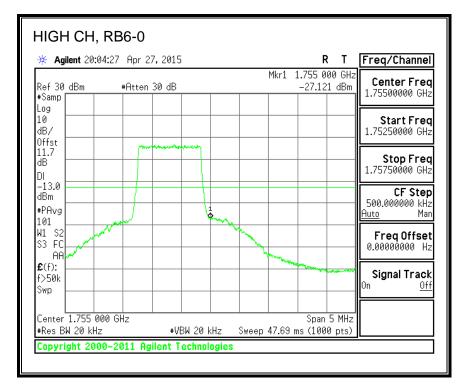
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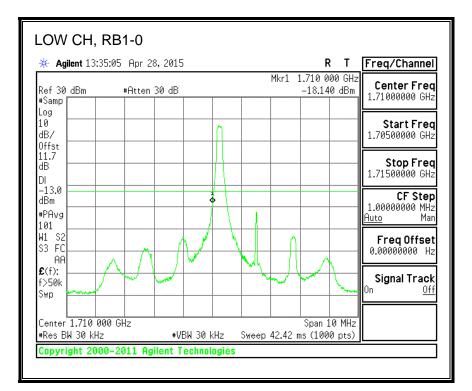
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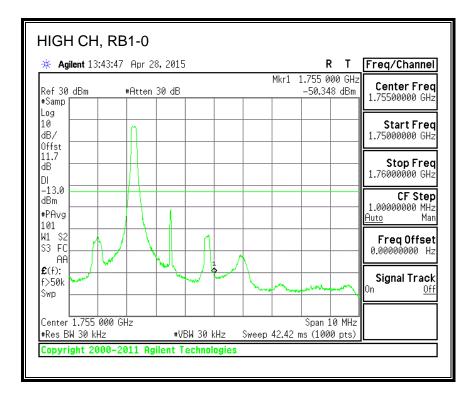




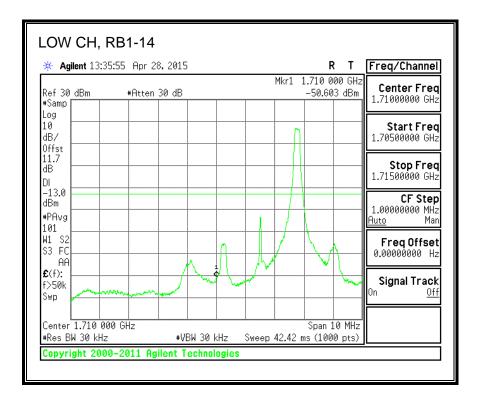
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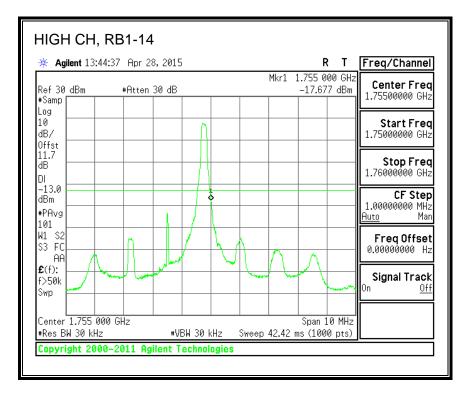
QPSK, (3.0 MHz BAND WIDTH)



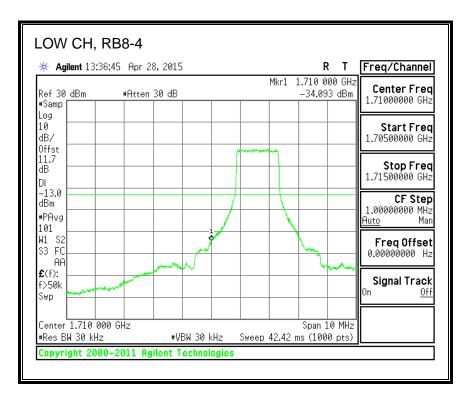


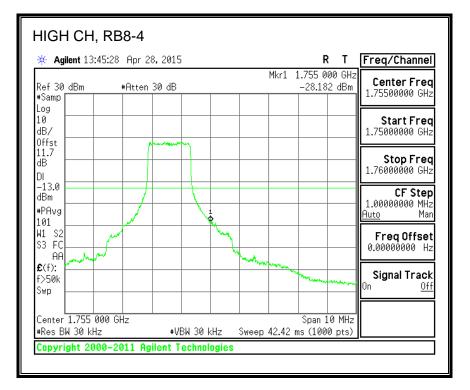
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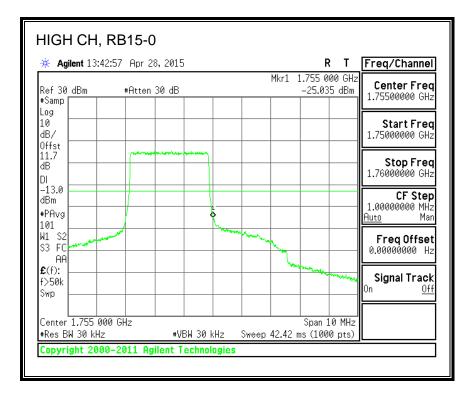
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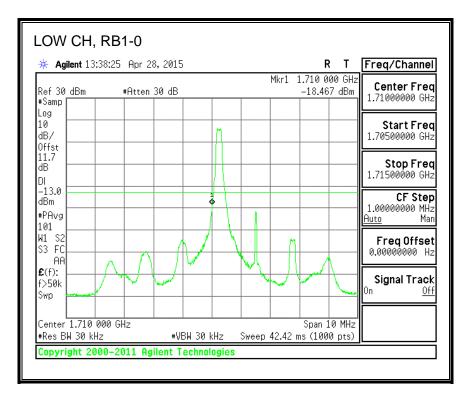
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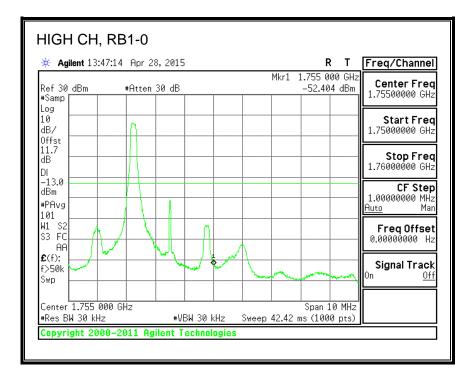
🔆 Ag	lent 13:3	4:15 Apr	28,201	5				R		Freq/Channel
Ref 30 #Samp	dBm	#Att	en 30 dB			Mi	kr1 1. 	710 00 -26.424		Center Fred 1.71000000 GHz
Log 10 dB/										Start Fred 1.70500000 GHz
Offst 11.7 dB DI						1-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				Stop Fred 1.71500000 GHz
-13.0 dBm #PAvg 101				ć						CF Step 1.00000000 MHz <u>Auto</u> Mar
W1 S2 S3 FC AA								~~~	-	Freq Offset 0.00000000 Hz
£ (f): f>50k Swp		-								Signal Track On <u>Of</u> i
	1.710 00 √ 30 kHz		#	 	(H7	Sweep 42		Span 1) : (1000		



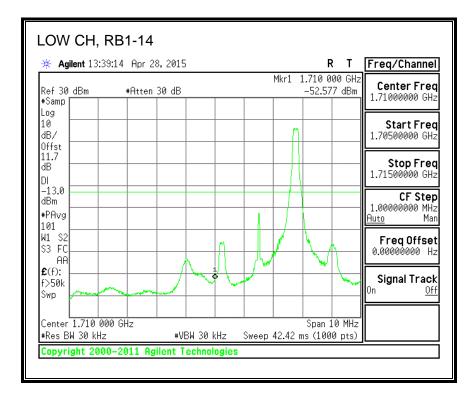
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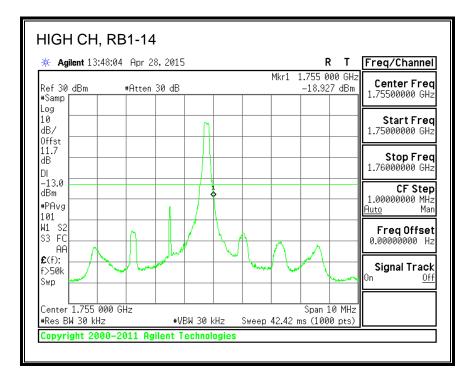
16QAM, (3.0 MHz BAND WIDTH)



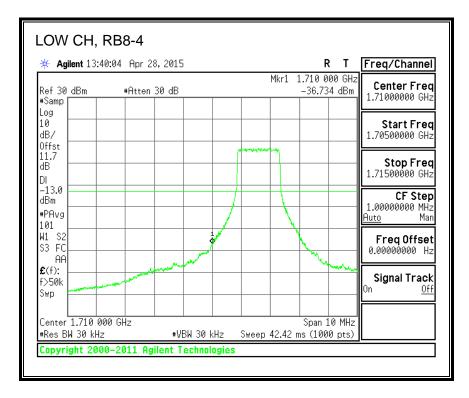


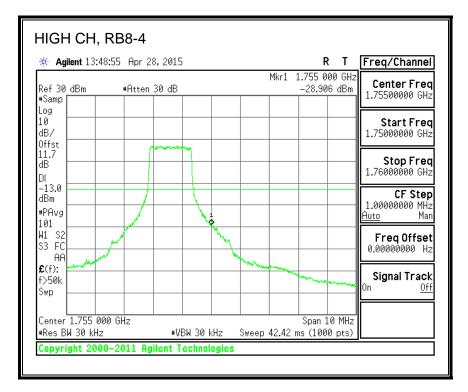
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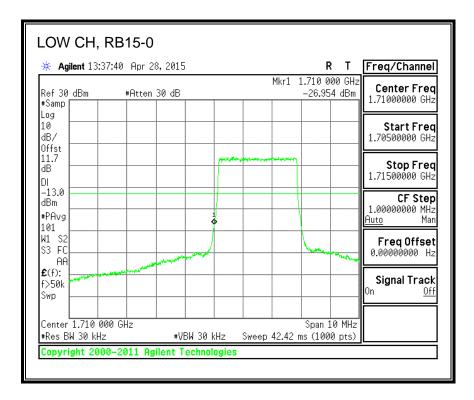


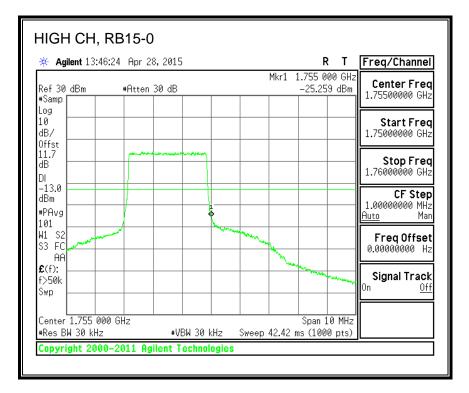
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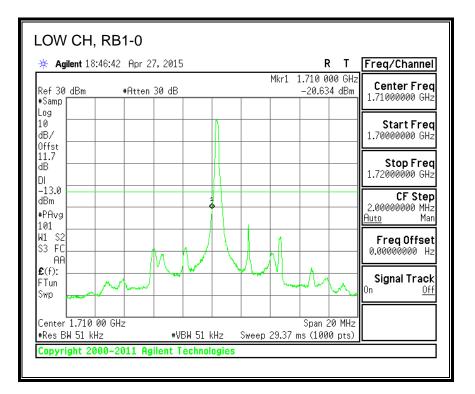
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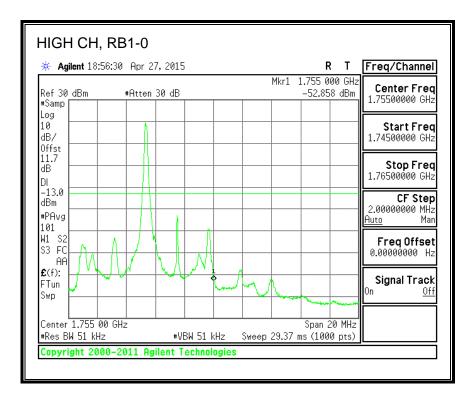




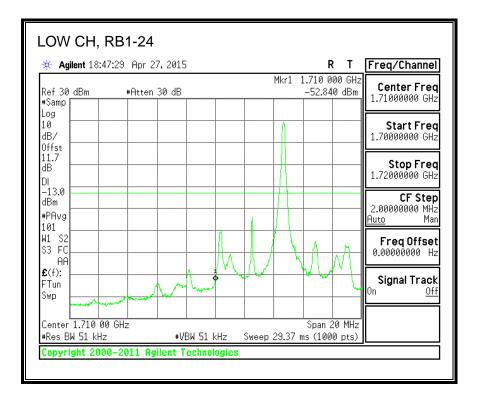
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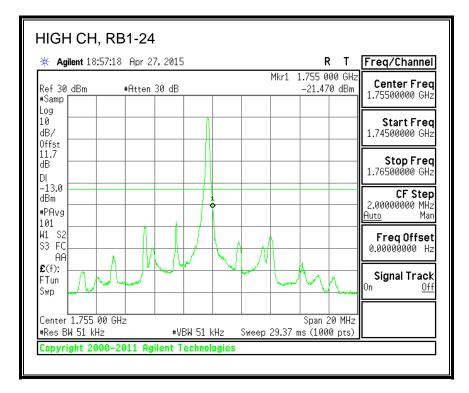
QPSK, (5.0 MHz BAND WIDTH)



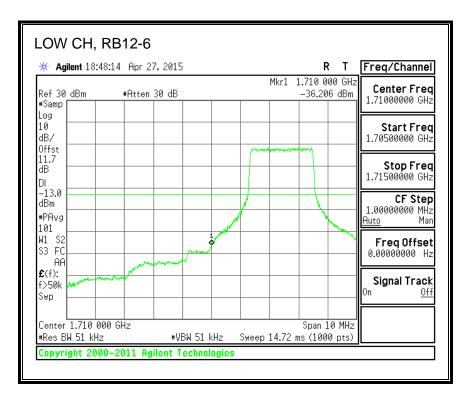


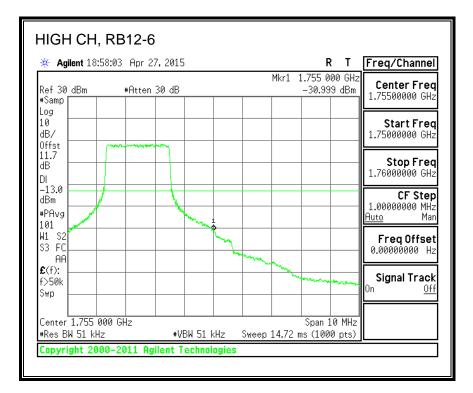
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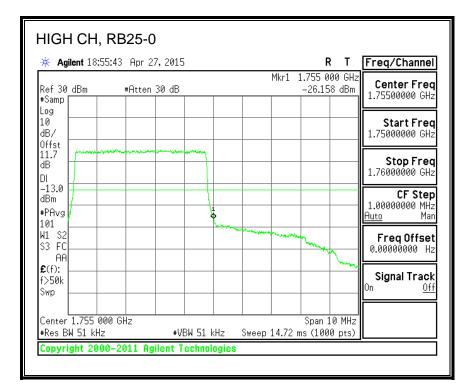
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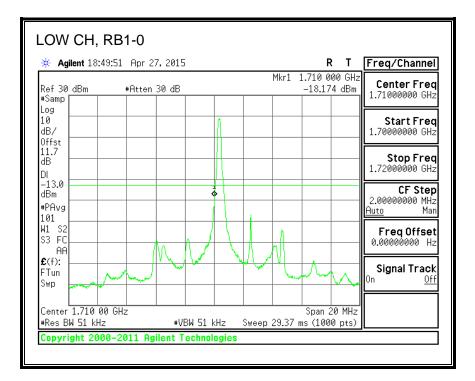
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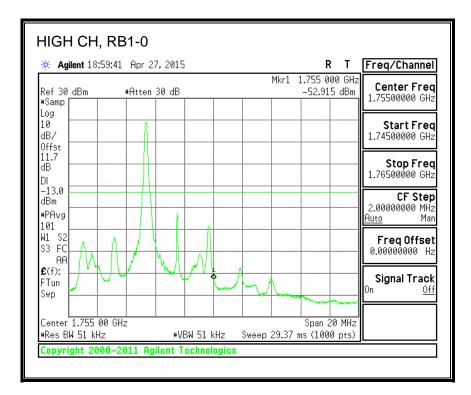
🔆 Agilent 18:4	15:54 Apr 27,	2015			RT	Freq/Channel
Ref 30 dBm #Samp 🛛 👘	#Atten 30) dB		Mkr1	1.710 000 GH: -29.177 dBm	
Log 10 dB/ Offst						Start Freq 1.70500000 GHz
11.7 dB DI -13.0						Stop Freq 1.71500000 GHz
-13.0 dBm #PAvg 101						CF Step 1.00000000 MHz <u>Auto</u> Mar
W1 S2 S3 FC AA	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and a speed				Freq Offset 0.00000000 Hz
£(f): f>50k Swp						Signal Track
Center 1.710 0 #Res BW 51 kH:		#VBW 51 k	Hz Sweer		 Span 10 MHz ms (1000 pts)	



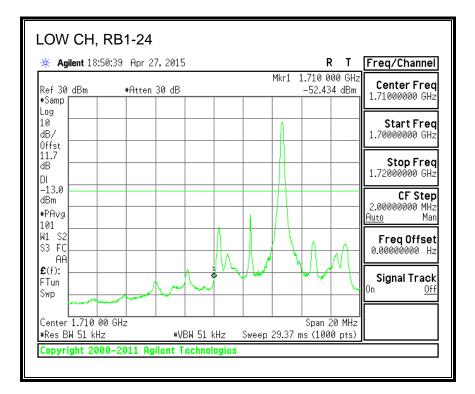
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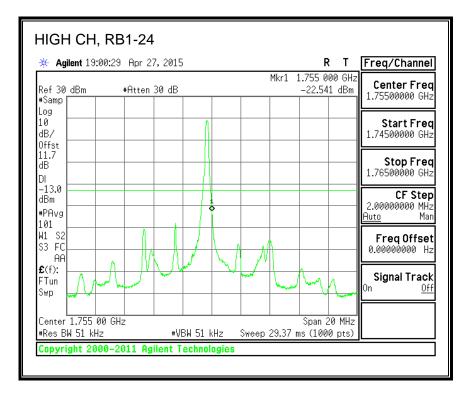
16QAM, (5.0 MHz BAND WIDTH)



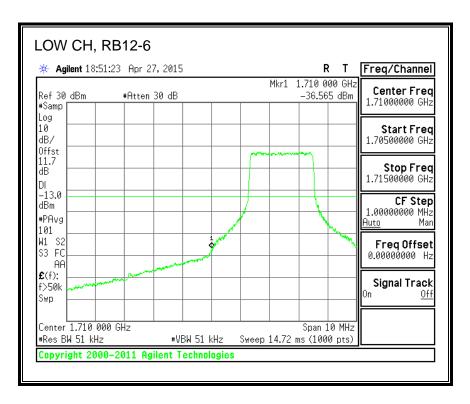


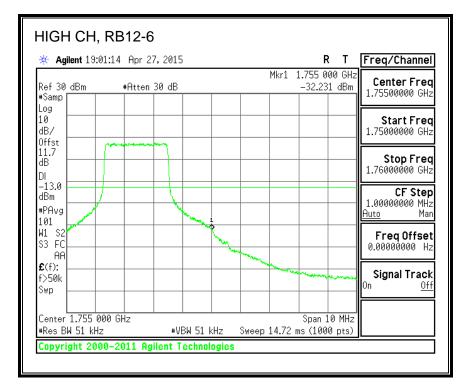
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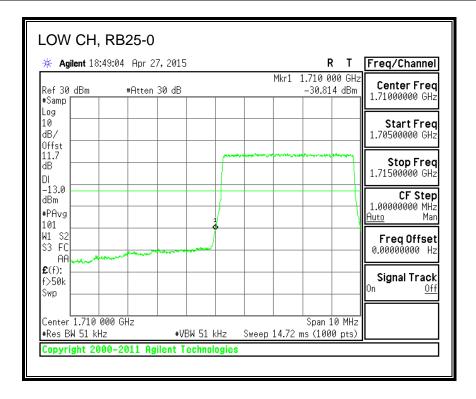


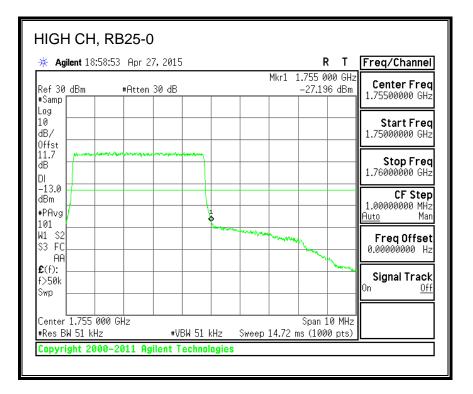
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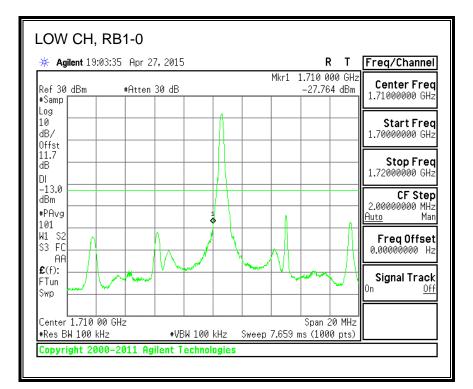
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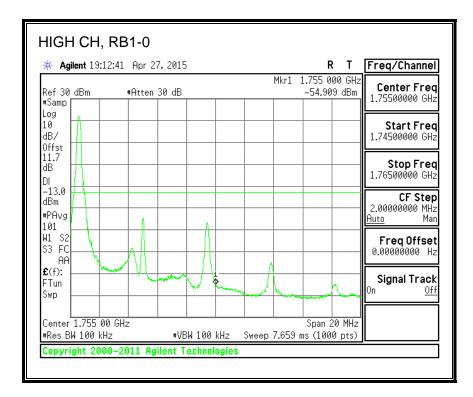




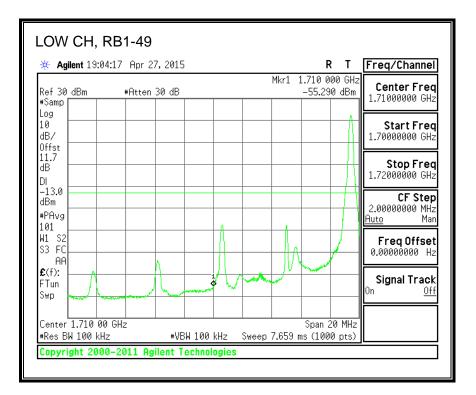
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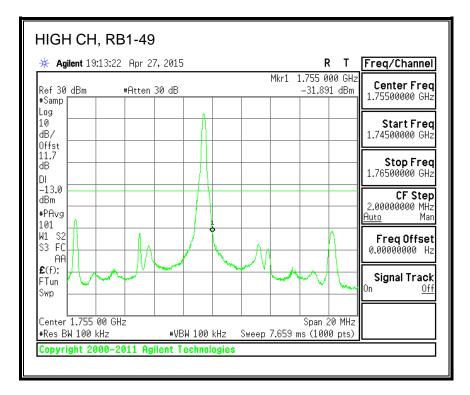
QPSK, (10.0 MHz BAND WIDTH)



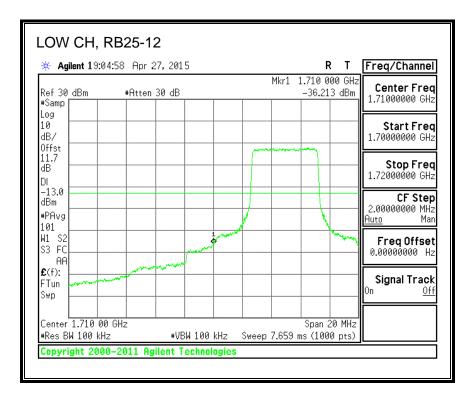


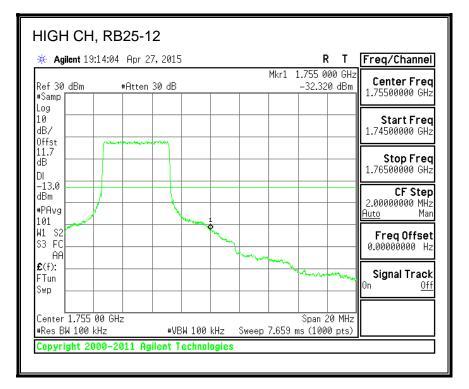
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