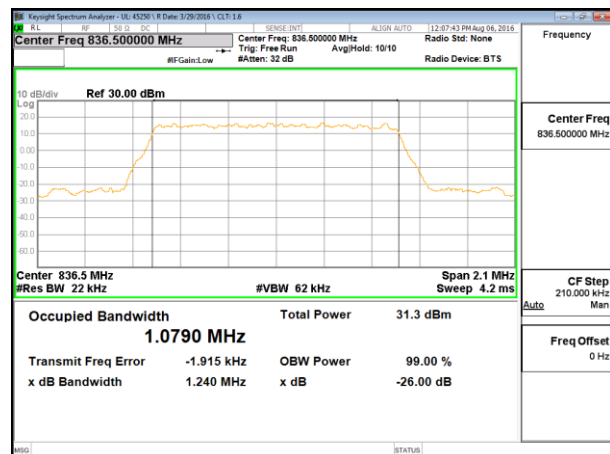
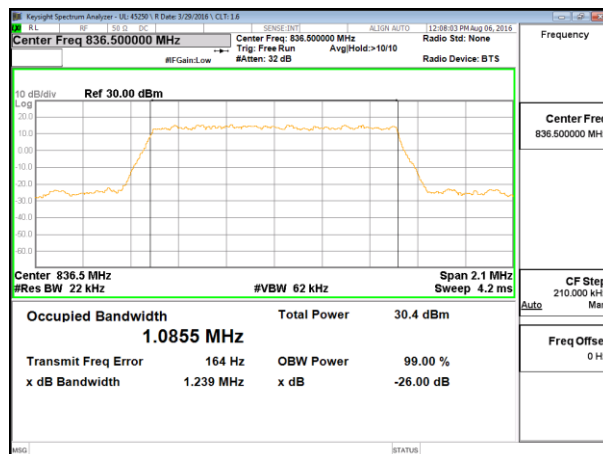


LTE Band 5

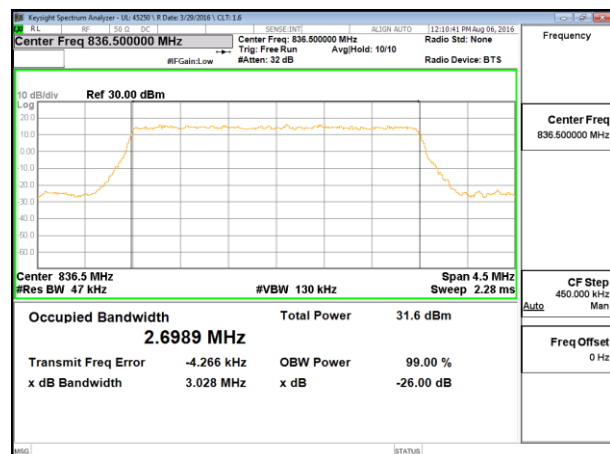
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
1.4	QPSK	6/0	824.7	1.09	1.24
		6/0	836.5	1.08	1.24
		6/0	848.3	1.08	1.24
	16QAM	6/0	824.7	1.08	1.24
		6/0	836.5	1.08	1.24
		6/0	848.3	1.09	1.24
3	QPSK	15/0	825.5	2.7	2.99
		15/0	836.5	2.7	3.03
		15/0	847.5	2.7	3.03
	16QAM	15/0	825.5	2.7	3.03
		15/0	836.5	2.7	3
		15/0	847.5	2.7	3.04
5	QPSK	25/0	826.5	4.5	4.95
		25/0	836.5	4.5	5
		25/0	846.5	4.49	4.94
	16QAM	25/0	826.5	4.5	4.98
		25/0	836.5	4.49	4.94
		25/0	846.5	4.49	4.93
10	QPSK	50/0	829	8.96	9.85
		50/0	836.5	8.98	9.78
		50/0	844	8.95	9.8
	16QAM	50/0	829	8.97	9.81
		50/0	836.5	8.96	9.86
		50/0	844	8.99	9.77



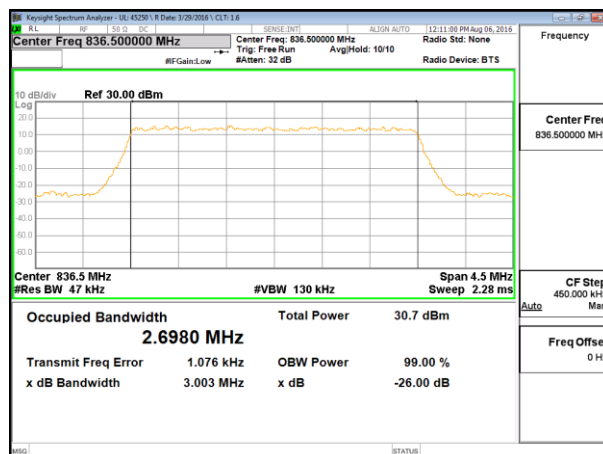
LTE B5 1.4MHz QPSK Middle Channel



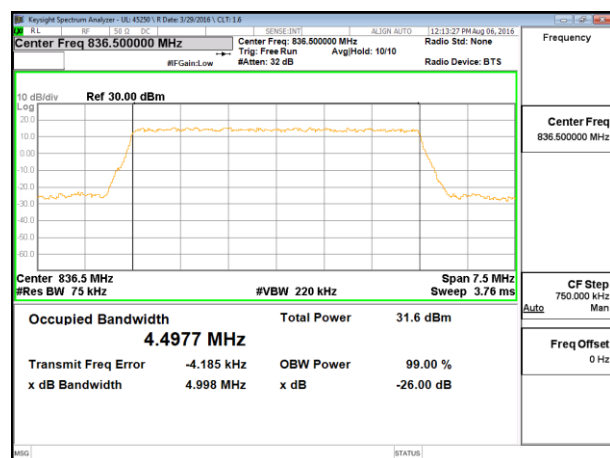
LTE B5 1.4MHz 16QAM Middle Channel



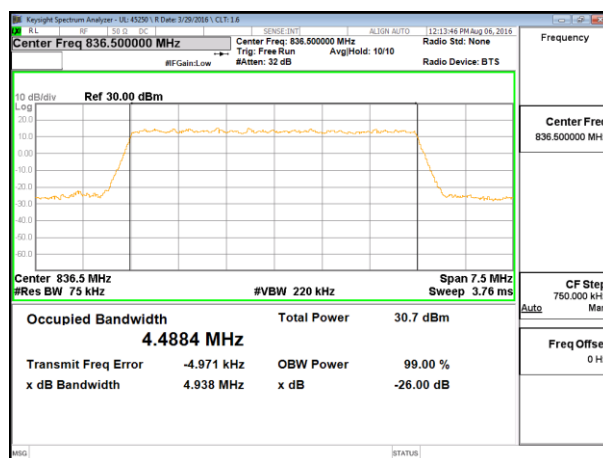
LTE B5 3MHz QPSK Middle Channel



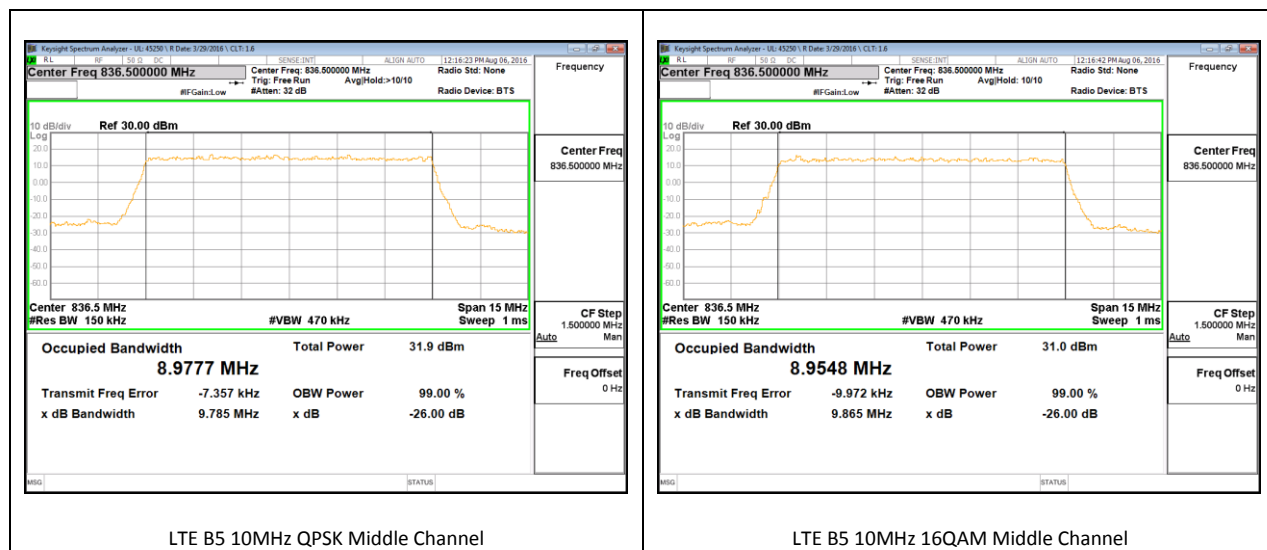
LTE B5 3MHz 16QAM Middle Channel



LTE B5 5MHz QPSK Middle Channel

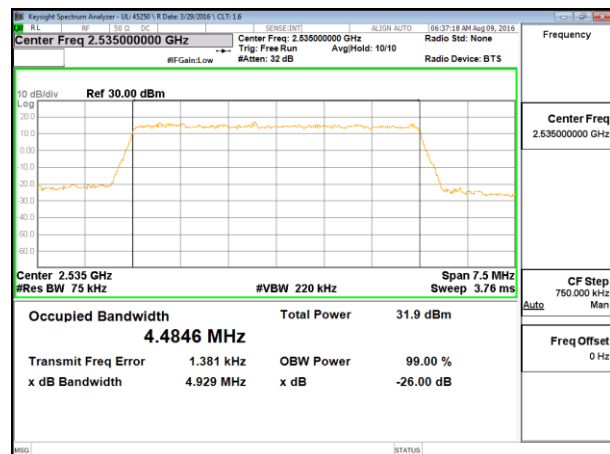


LTE B5 5MHz 16QAM Middle Channel

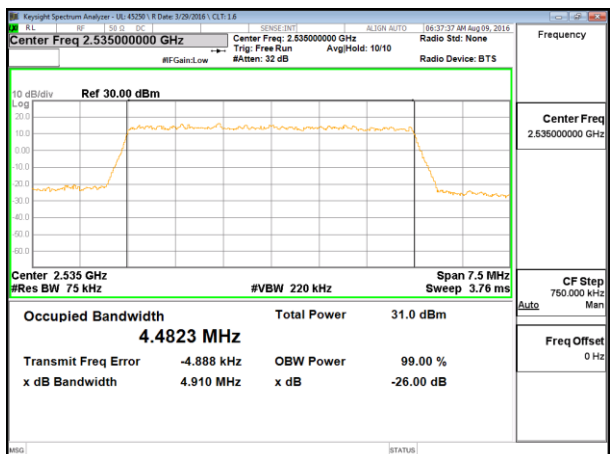


LTE Band 7

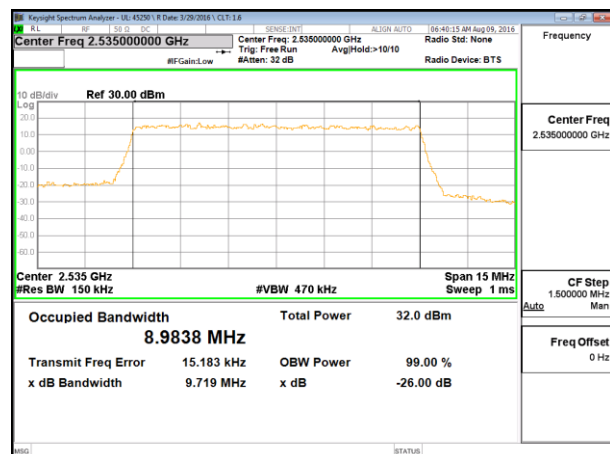
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
5	QPSK	25/0	2502.5	4.5	4.95
		25/0	2535	4.49	4.93
		25/0	2567.5	4.5	4.94
	16QAM	25/0	2502.5	4.49	4.92
		25/0	2535	4.48	4.91
		25/0	2567.5	4.5	4.95
10	QPSK	50/0	2505	8.98	9.75
		50/0	2535	8.98	9.72
		50/0	2565	8.94	9.65
	16QAM	50/0	2505	8.97	9.77
		50/0	2535	8.96	9.73
		50/0	2565	8.95	9.68
15	QPSK	75/0	2507.5	13.44	14.64
		75/0	2535	13.46	14.61
		75/0	2562.5	13.39	14.44
	16QAM	75/0	2507.5	13.45	14.55
		75/0	2535	13.44	14.61
		75/0	2562.5	13.39	14.49
20	QPSK	100/0	2510	17.9	19.33
		100/0	2535	17.95	19.3
		100/0	2560	17.91	19.37
	16QAM	100/0	2510	17.9	19.35
		100/0	2535	17.9	19.3
		100/0	2560	17.83	19.23



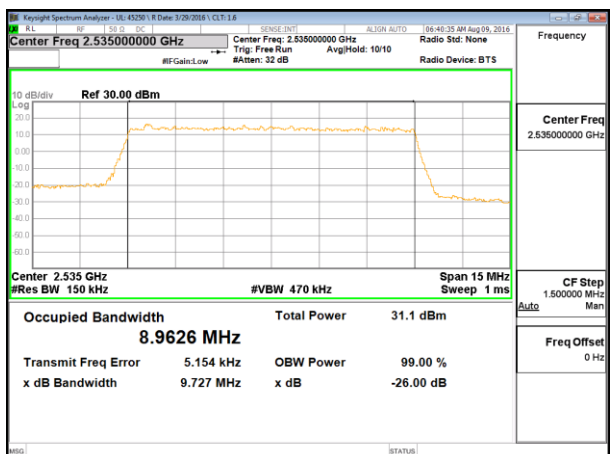
LTE B7 5MHz QPSK Middle Channel



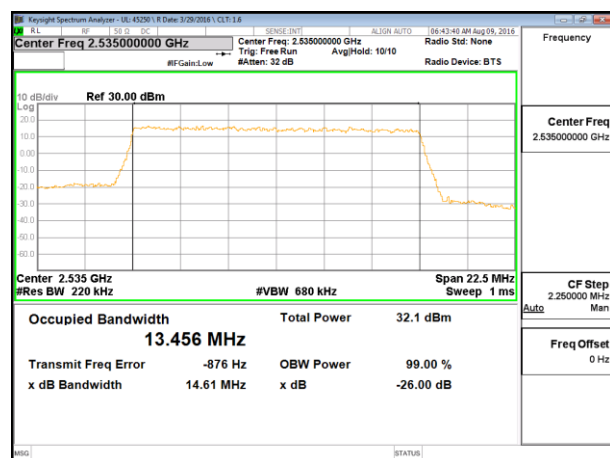
LTE B7 5MHz 16QAM Middle Channel



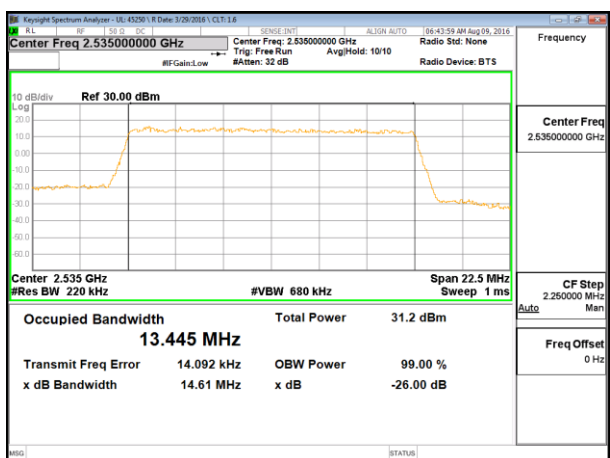
LTE B7 10MHz QPSK Middle Channel



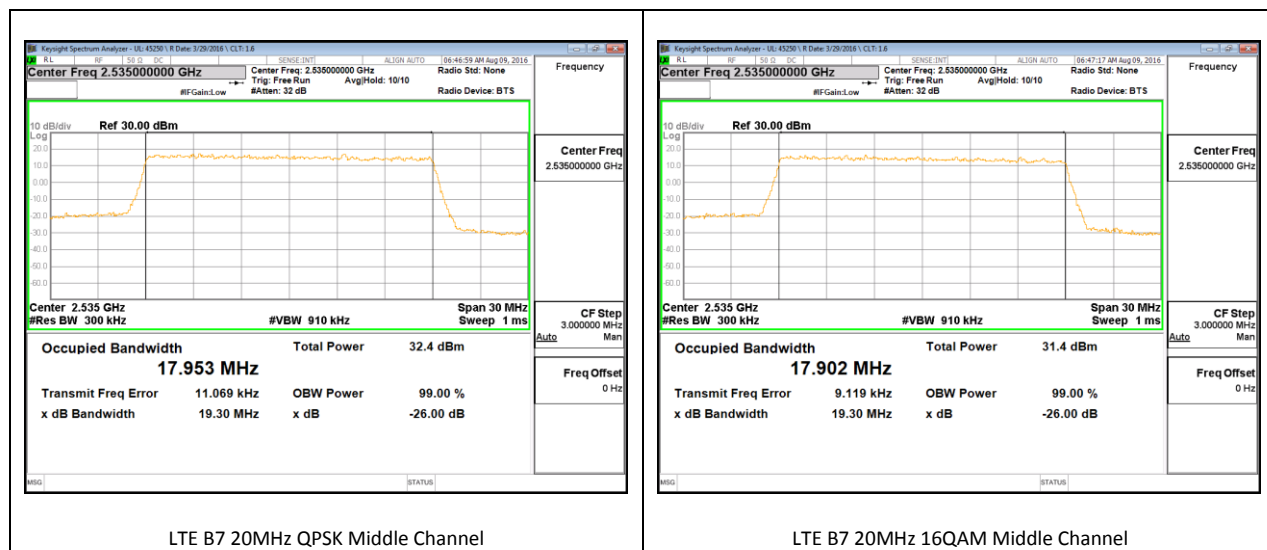
LTE B7 10MHz 16QAM Middle Channel



LTE B7 15MHz QPSK Middle Channel

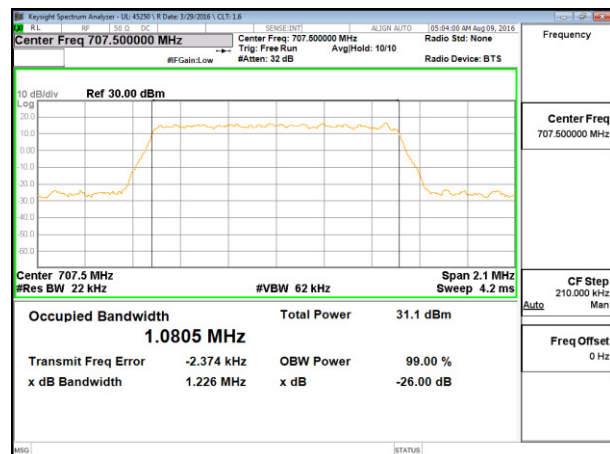


LTE B7 15MHz 16QAM Middle Channel

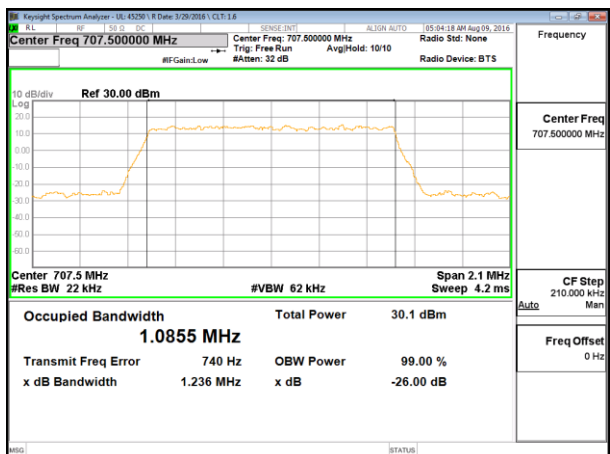


LTE Band 12

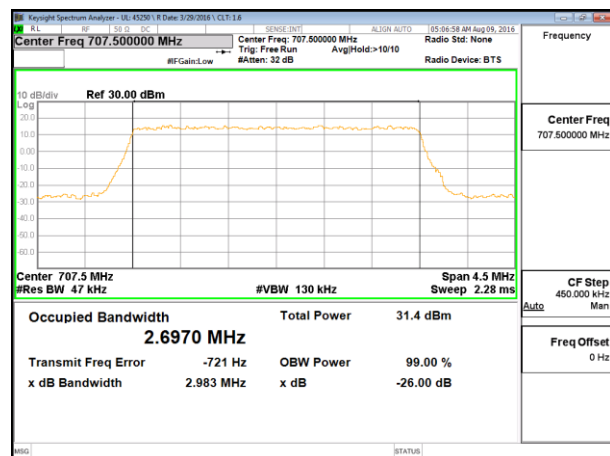
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
1.4	QPSK	6/0	699.7	1.09	1.24
		6/0	707.5	1.08	1.23
		6/0	715.3	1.09	1.23
	16QAM	6/0	699.7	1.08	1.23
		6/0	707.5	1.08	1.24
		6/0	715.3	1.1	1.24
3	QPSK	15/0	700.5	2.7	2.99
		15/0	707.5	2.7	2.98
		15/0	714.5	2.7	3
	16QAM	15/0	700.5	2.69	2.95
		15/0	707.5	2.7	2.99
		15/0	714.5	2.69	3.01
5	QPSK	25/0	701.5	4.51	4.94
		25/0	707.5	4.48	4.94
		25/0	713.5	4.49	4.91
	16QAM	25/0	701.5	4.51	4.98
		25/0	707.5	4.49	4.92
		25/0	713.5	4.49	4.92
10	QPSK	50/0	704	8.98	9.81
		50/0	707.5	8.97	9.74
		50/0	711	8.97	9.77
	16QAM	50/0	704	8.97	9.8
		50/0	707.5	8.95	9.75
		50/0	711	9	9.8



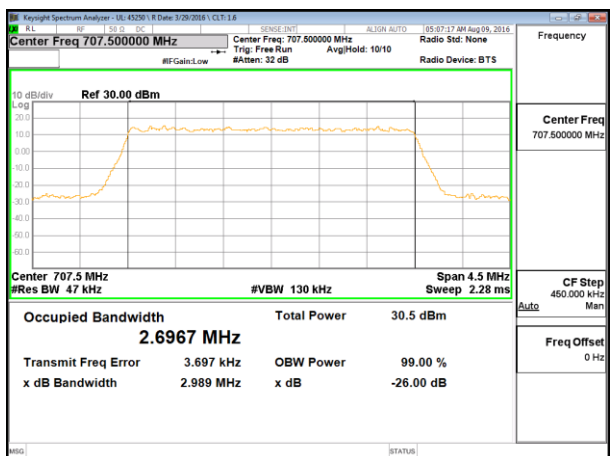
LTE B12 1.4MHz QPSK Middle Channel



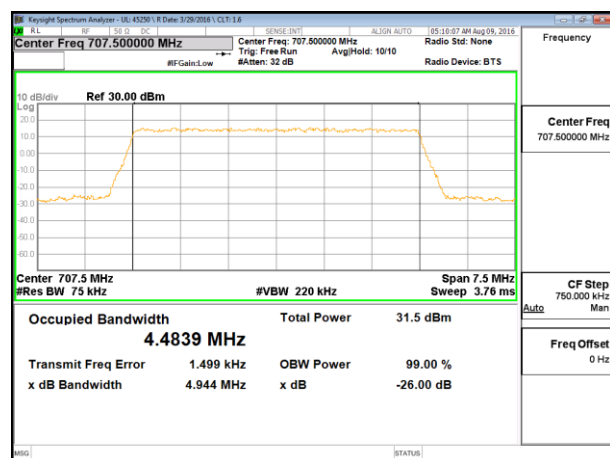
LTE B12 1.4MHz 16QAM Middle Channel



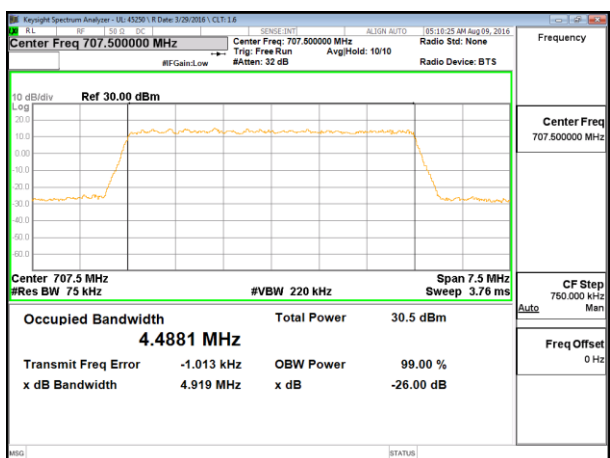
LTE B12 3MHz QPSK Middle Channel



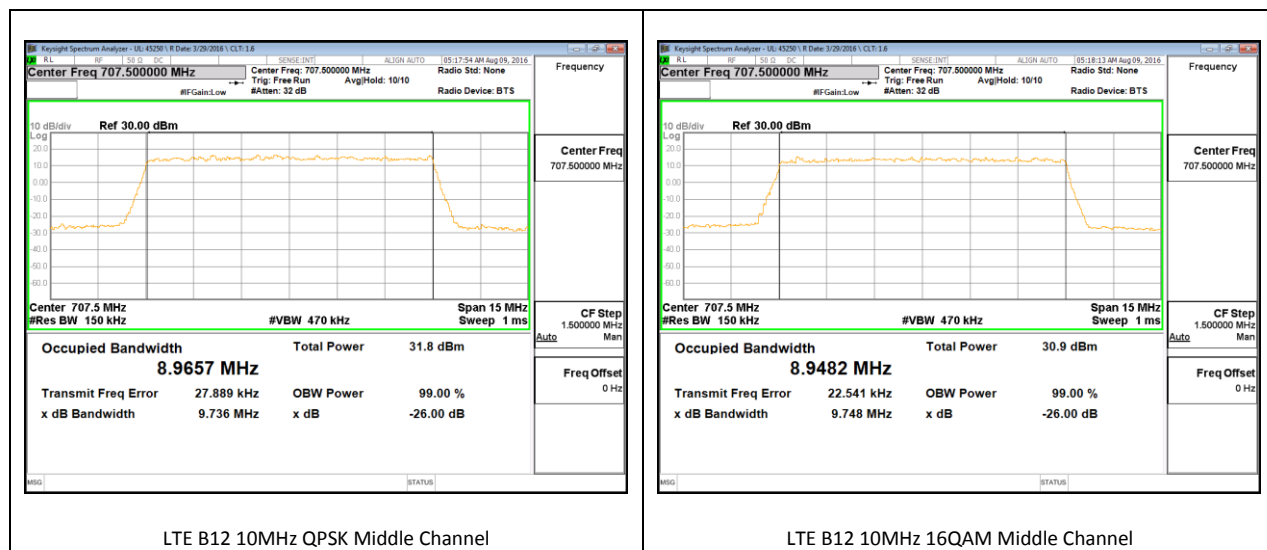
LTE B12 3MHz 16QAM Middle Channel



LTE B12 5MHz QPSK Middle Channel

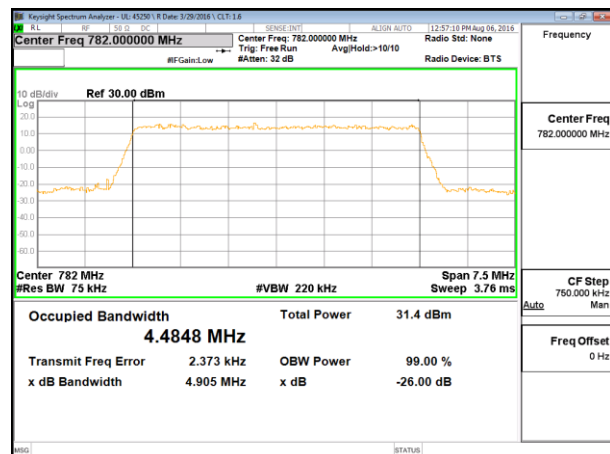


LTE B12 5MHz 16QAM Middle Channel

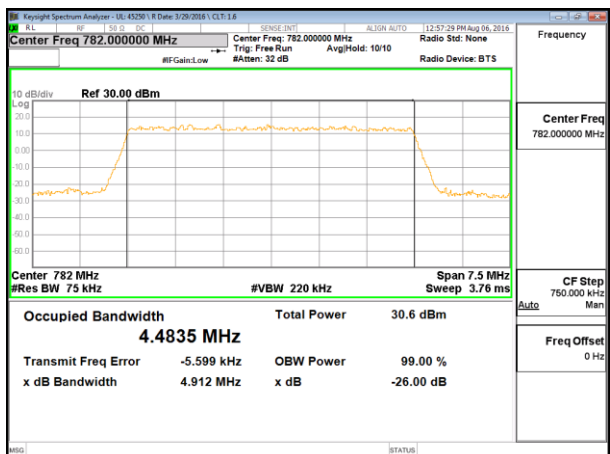


LTE Band 13

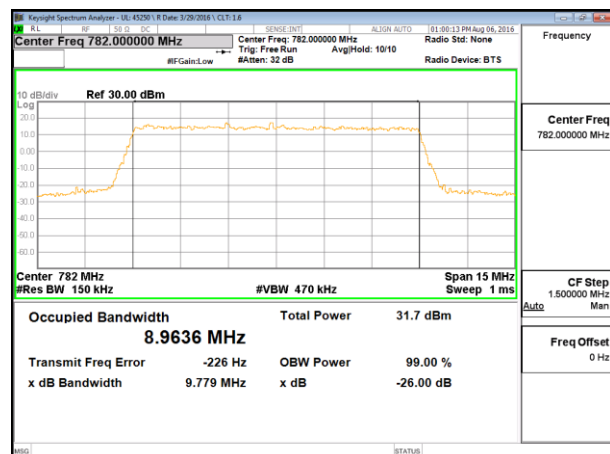
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
5	QPSK	25/0	779.5	4.49	4.96
		25/0	782	4.49	4.9
		25/0	784.5	4.5	4.93
	16QAM	25/0	779.5	4.49	4.92
		25/0	782	4.48	4.91
		25/0	784.5	4.5	4.96
10	QPSK	50/0	-	-	-
		50/0	782	8.96	9.78
		50/0	-	-	-
	16QAM	50/0	-	-	-
		50/0	782	8.98	9.76
		50/0	-	-	-



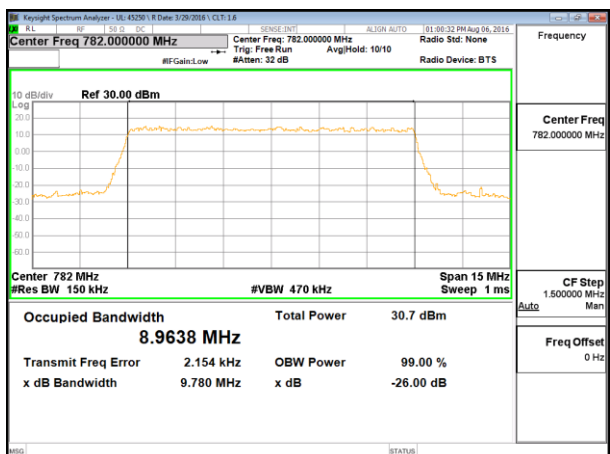
LTE B13 5MHz QPSK Middle Channel



LTE B13 5MHz 16QAM Middle Channel



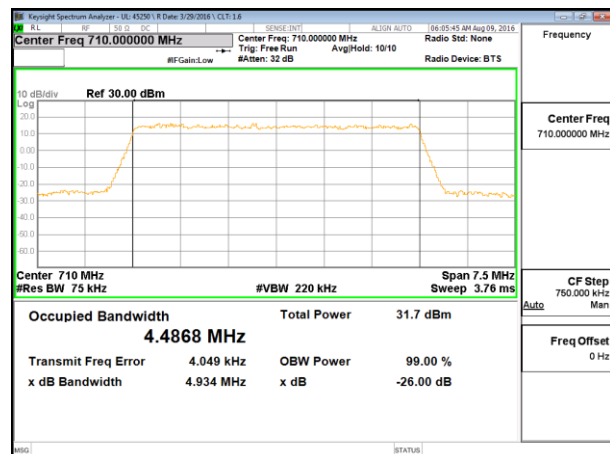
LTE B13 10MHz QPSK Middle Channel



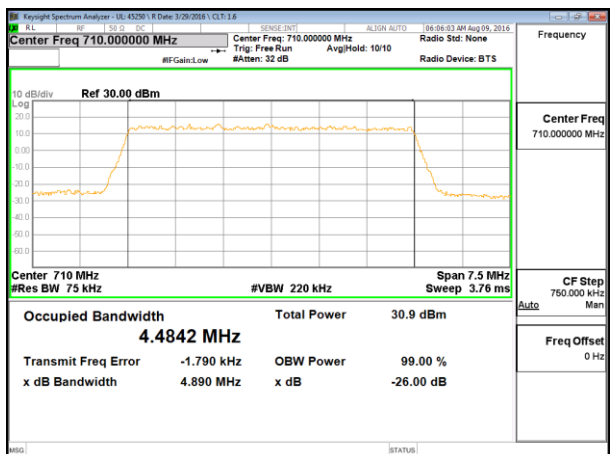
LTE B13 10MHz 16QAM Middle Channel

LTE Band 17

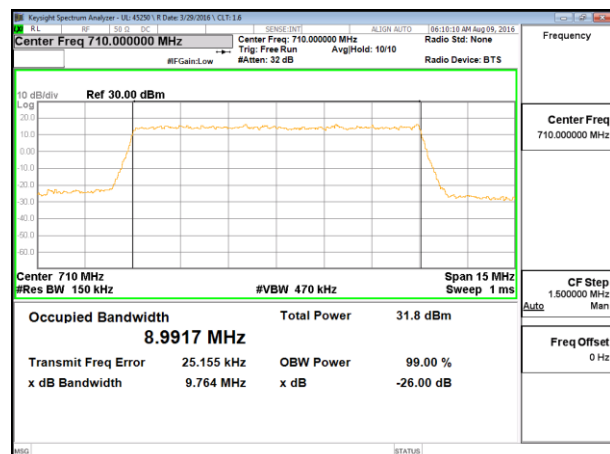
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
5	QPSK	25/0	706.5	4.49	4.94
		25/0	710	4.49	4.93
		25/0	713.5	4.51	4.94
	16QAM	25/0	706.5	4.49	4.93
		25/0	710	4.48	4.89
		25/0	713.5	4.5	4.96
10	QPSK	50/0	709	8.98	9.81
		50/0	710	8.99	9.76
		50/0	711	8.97	9.76
	16QAM	50/0	709	8.98	9.82
		50/0	710	8.96	9.74
		50/0	711	8.97	9.78



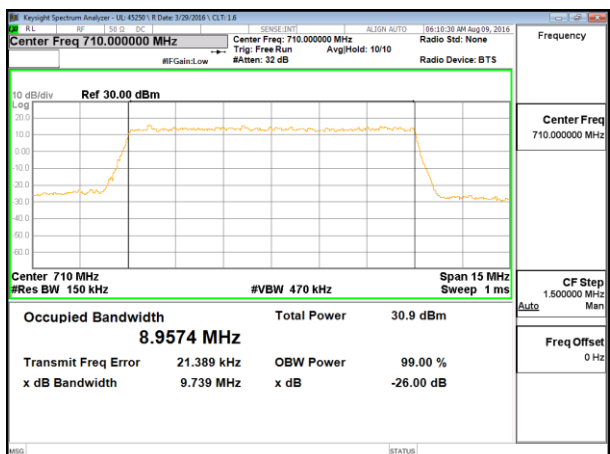
LTE B17 5MHz QPSK Middle Channel



LTE B17 5MHz 16QAM Middle Channel



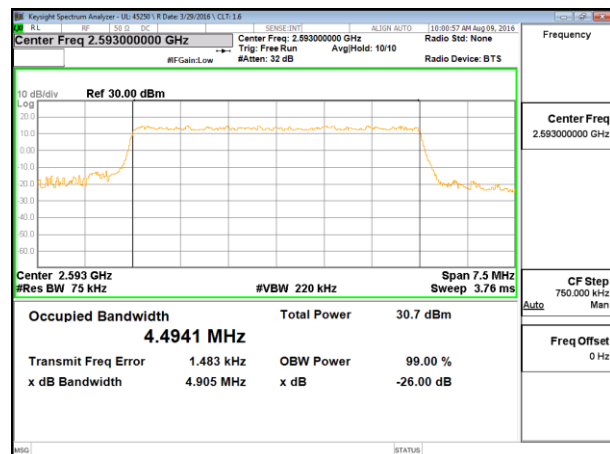
LTE B17 10MHz QPSK Middle Channel



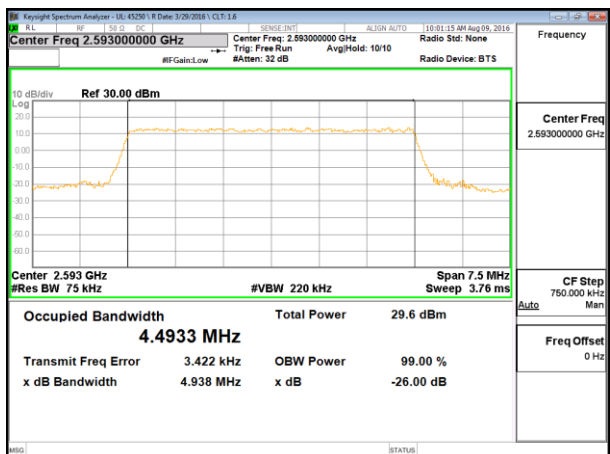
LTE B17 10MHz 16QAM Middle Channel

LTE Band 41

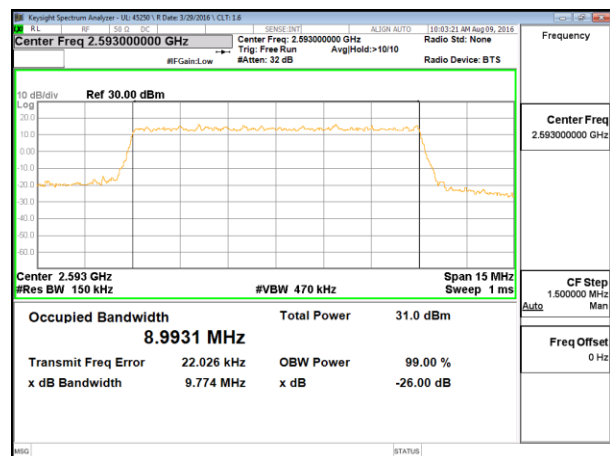
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
5	QPSK	25/0	2498.5	4.49	4.96
		25/0	2593	4.49	4.9
		25/0	2687.5	4.49	5.03
	16QAM	25/0	2498.5	4.49	4.98
		25/0	2593	4.49	4.94
		25/0	2687.5	4.49	4.88
10	QPSK	50/0	2501	8.95	9.65
		50/0	2593	8.99	9.77
		50/0	2685	8.96	9.75
	16QAM	50/0	2501	8.98	9.87
		50/0	2593	8.97	9.88
		50/0	2685	8.98	10.2
15	QPSK	75/0	2503.5	13.43	14.79
		75/0	2593	13.45	15.5
		75/0	2682.5	13.44	14.55
	16QAM	75/0	2503.5	13.47	14.62
		75/0	2593	13.47	15.67
		75/0	2682.5	13.45	14.94
20	QPSK	100/0	2506	17.95	19.33
		100/0	2593	17.97	19.53
		100/0	2680	17.92	19.62
	16QAM	100/0	2506	17.93	19.46
		100/0	2593	17.92	19.88
		100/0	2680	17.93	19.93



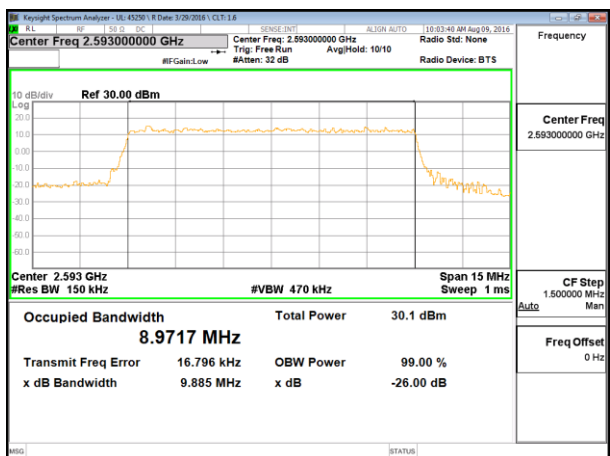
LTE B41 5MHz QPSK Middle Channel



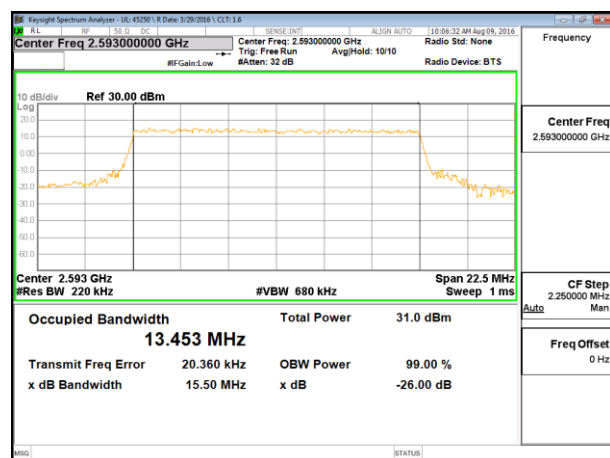
LTE B41 5MHz 16QAM Middle Channel



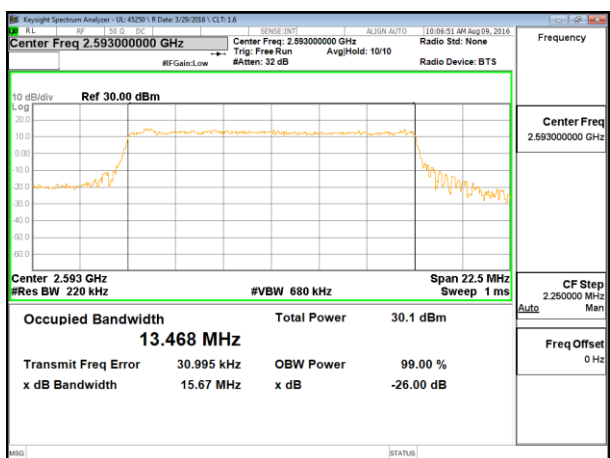
LTE B41 10MHz QPSK Middle Channel



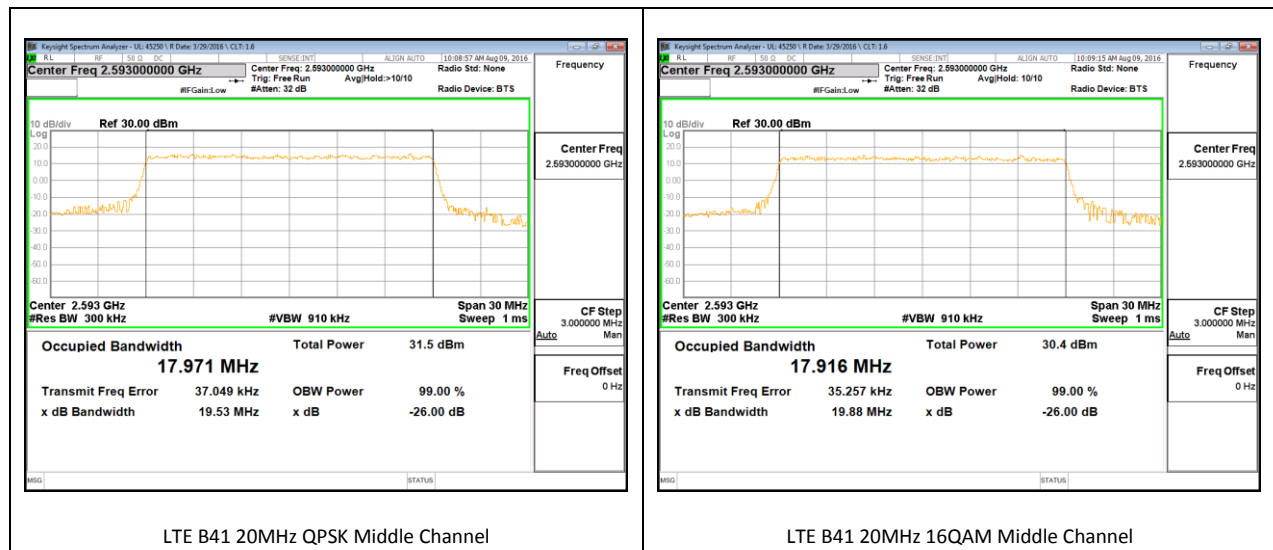
LTE B41 10MHz 16QAM Middle Channel



LTE B41 15MHz QPSK Middle Channel



LTE B41 15MHz 16QAM Middle Channel



11. BAND EDGE EMISSIONS

RULE PART(S)

FCC: §22.359, §24.238, §27.53

LIMITS

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.

Part 27: (m)(4) (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 than $43 + 10 \log (P)$ 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.

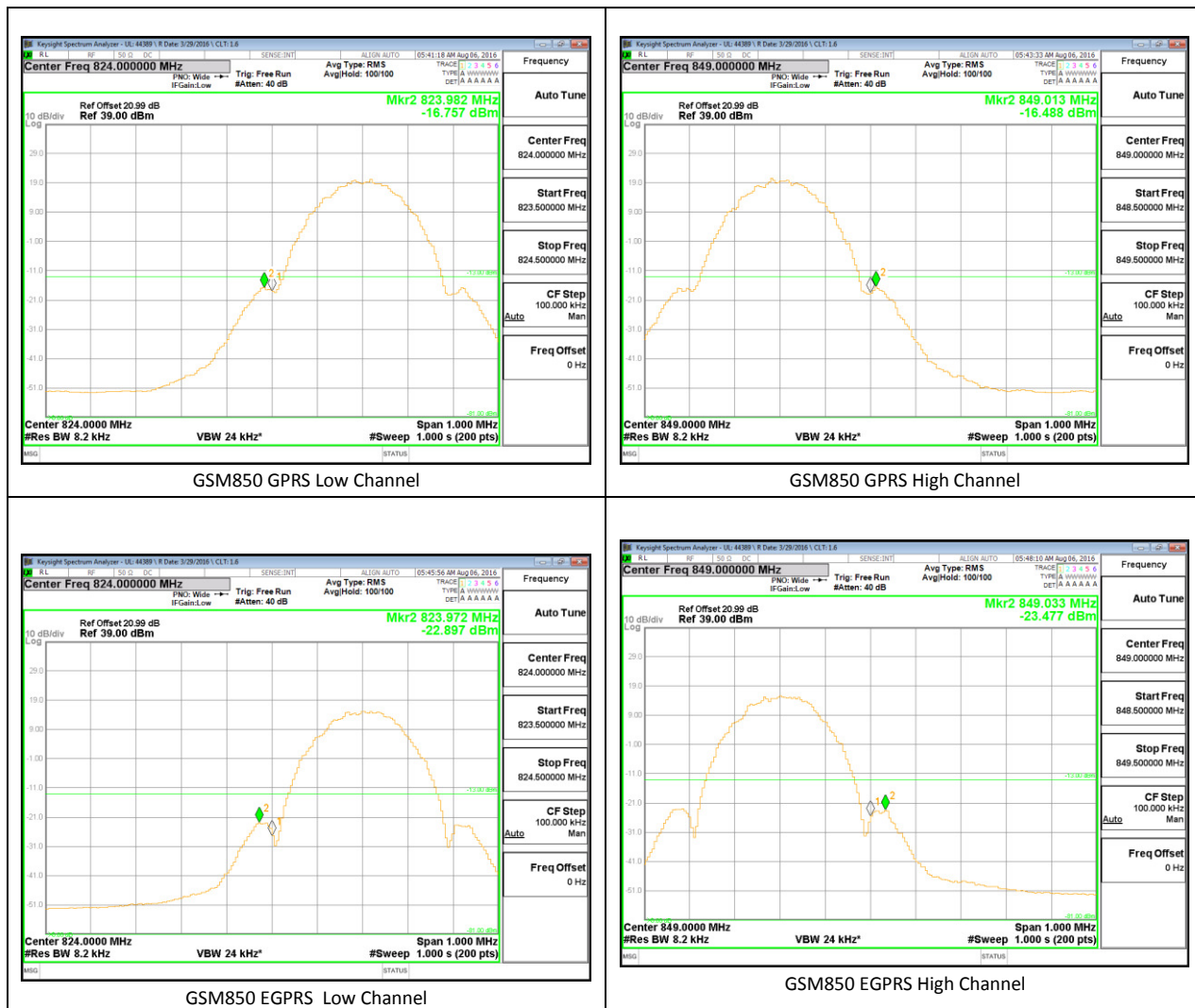
TEST PROCEDURE

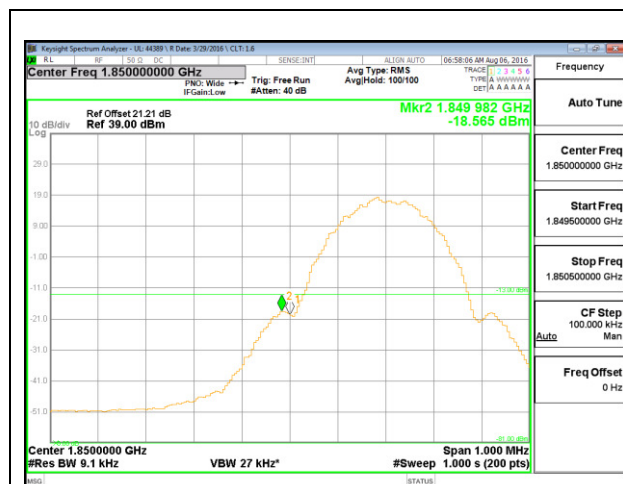
Per KDB 971168 D01 Power Meas License Digital Systems v02r02

The transmitter output was connected to an Agilent 8960 or a CMW500 Test 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.

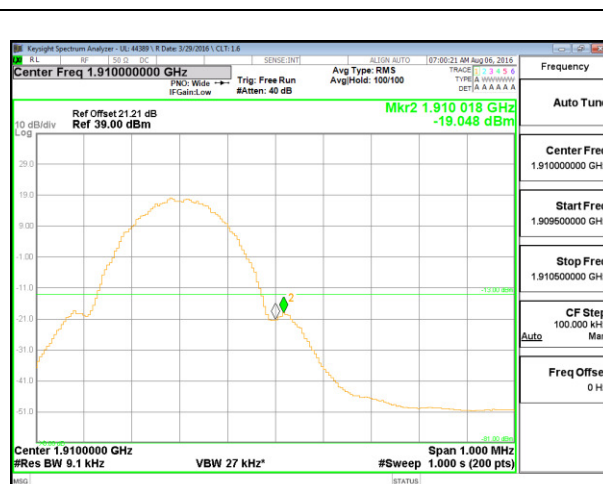
11.1. BAND EDGE PLOTS

GSM

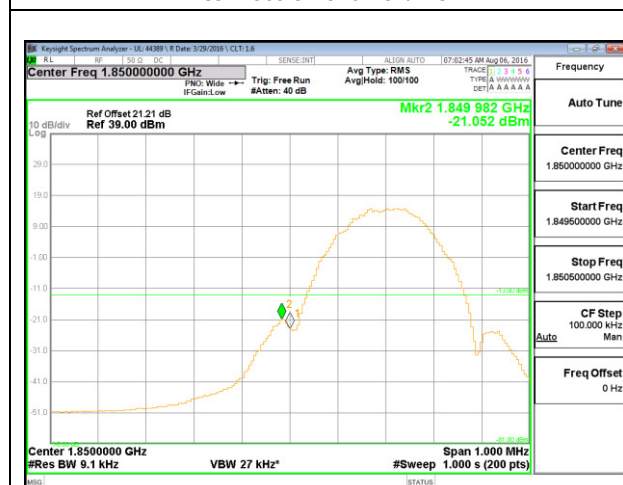




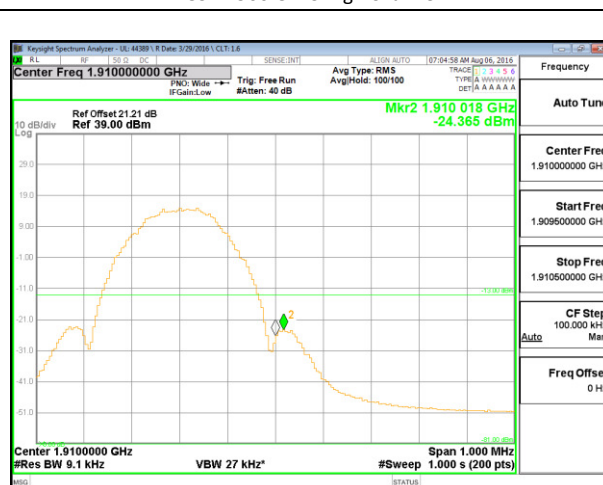
GSM1900 GPRS Low Channel



GSM1900 GPRS High Channel

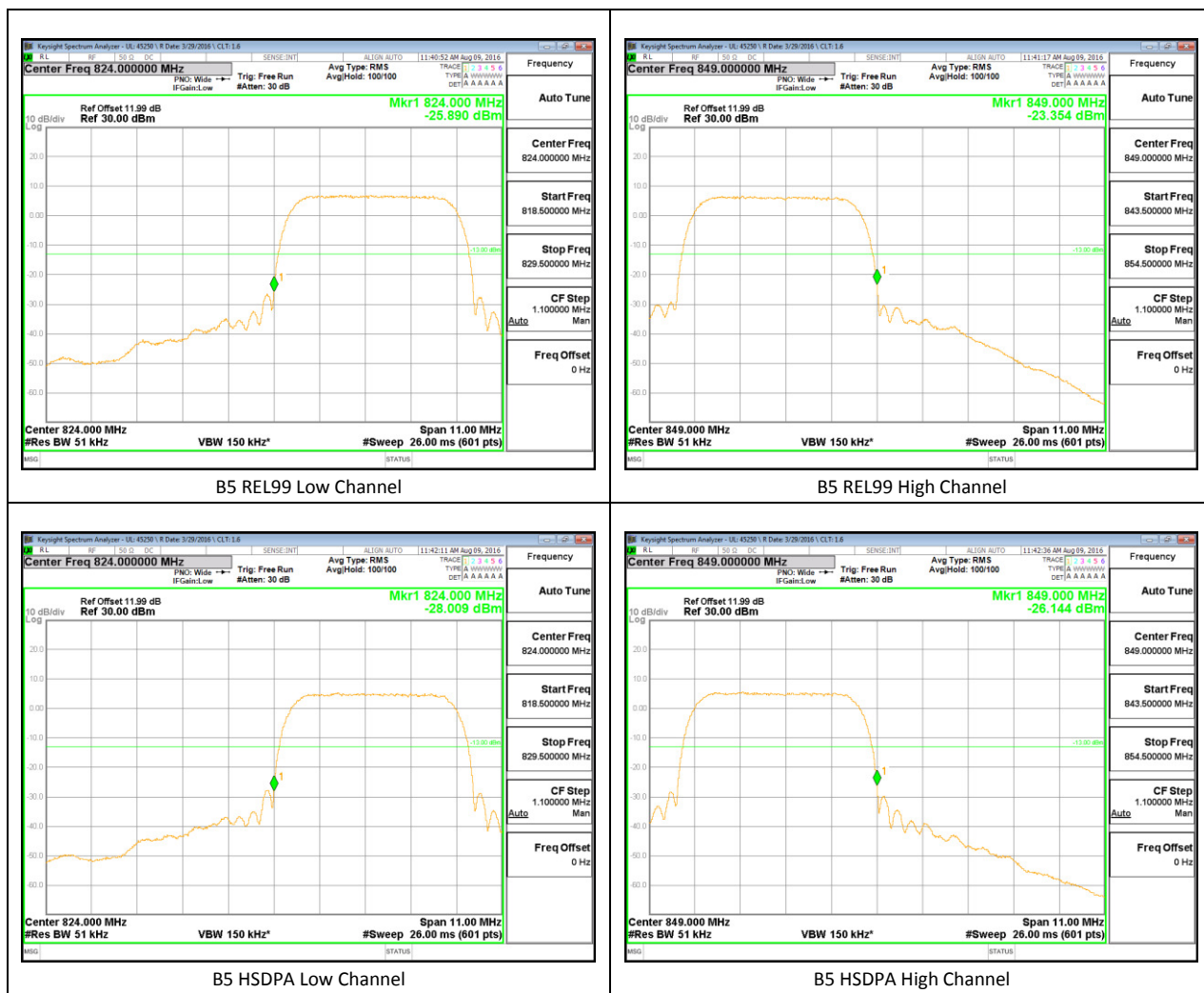


GSM1900 EGPRS Low Channel

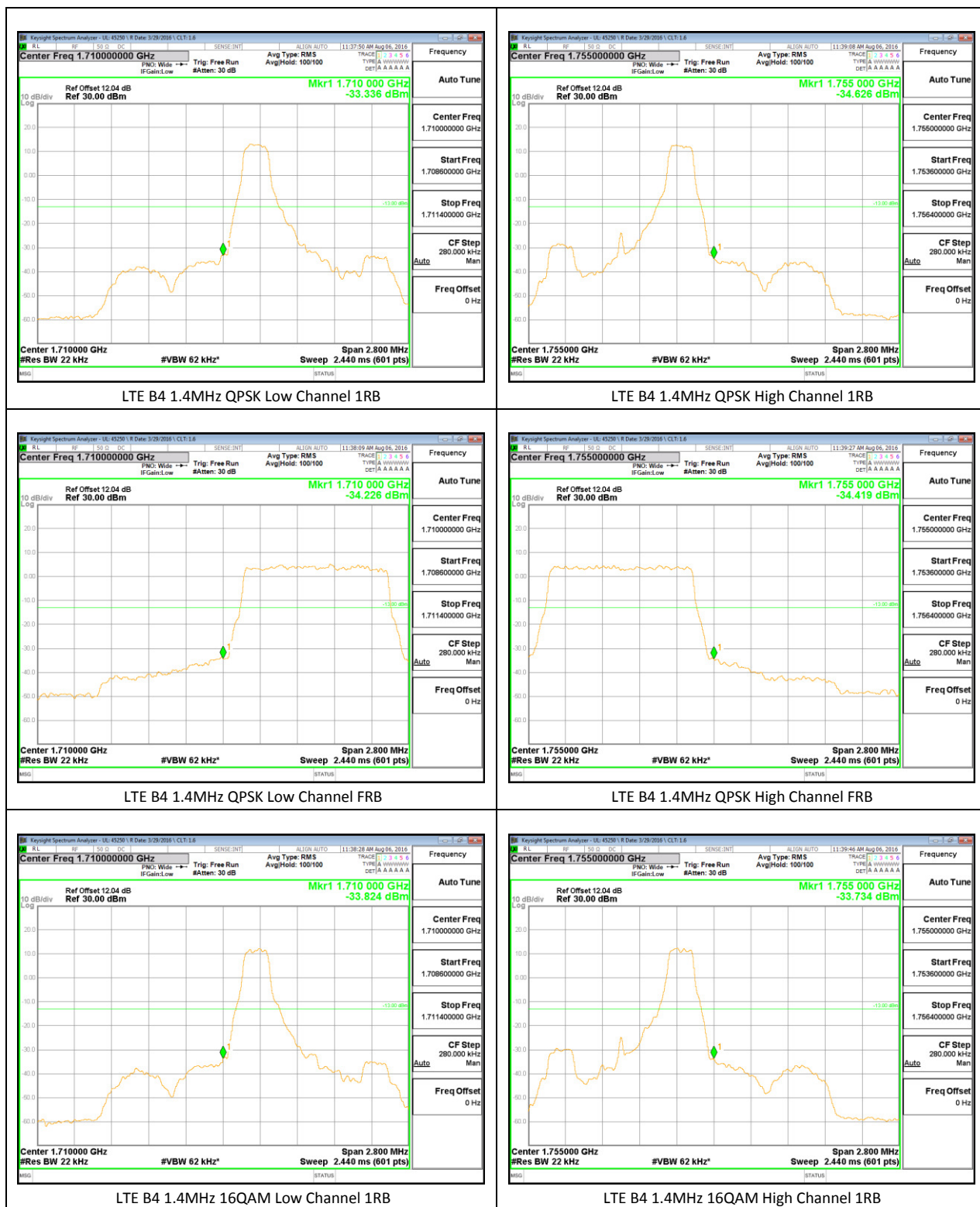


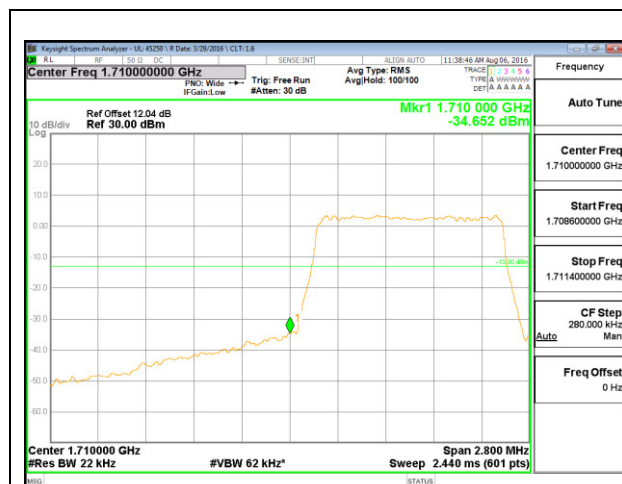
GSM1900 EGPRS High Channel

WCDMA

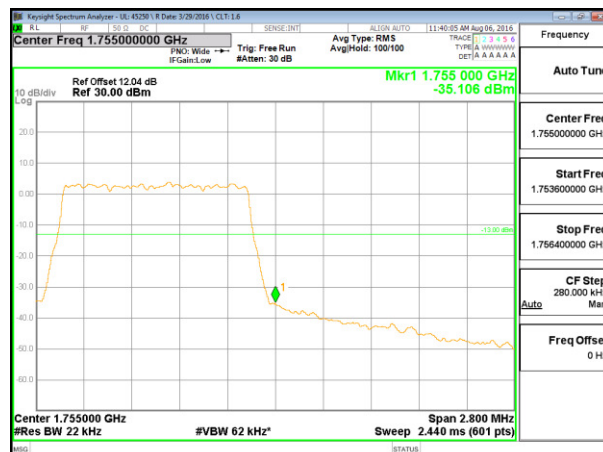


LTE Band 4

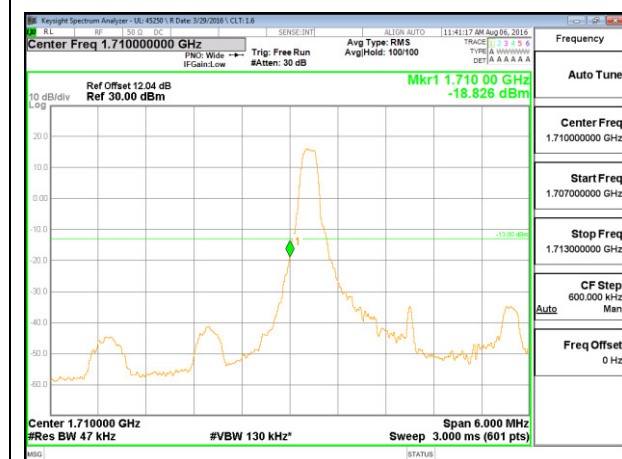




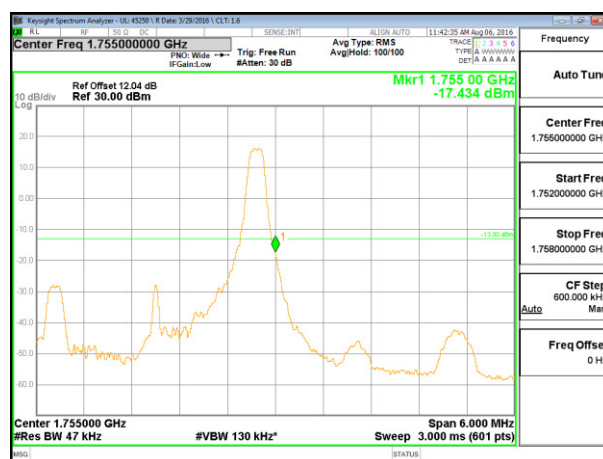
LTE B4 1.4MHz 16QAM Low Channel FRB



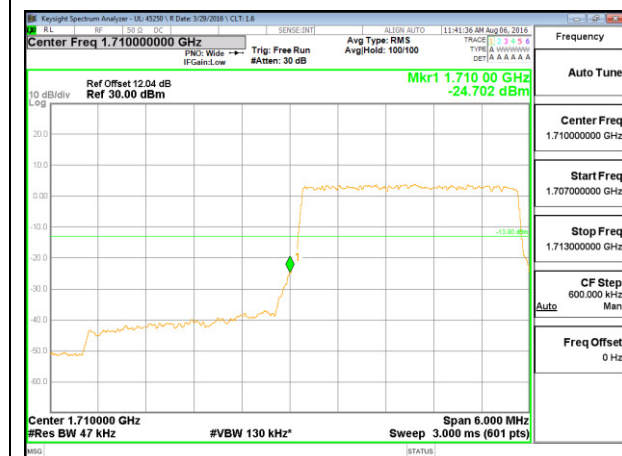
LTE B4 1.4MHz 16QAM High Channel FRB



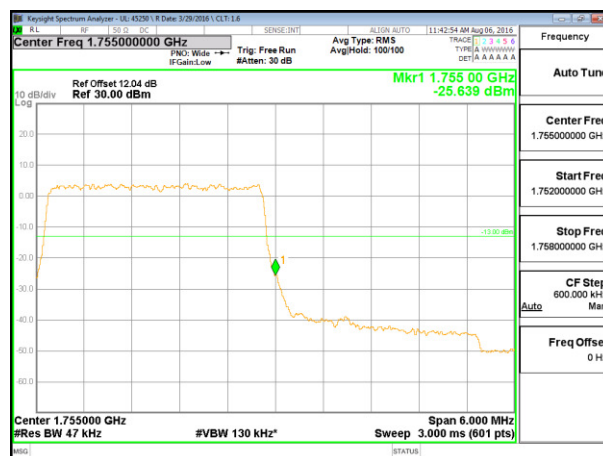
LTE B4 3MHz QPSK Low Channel 1RB



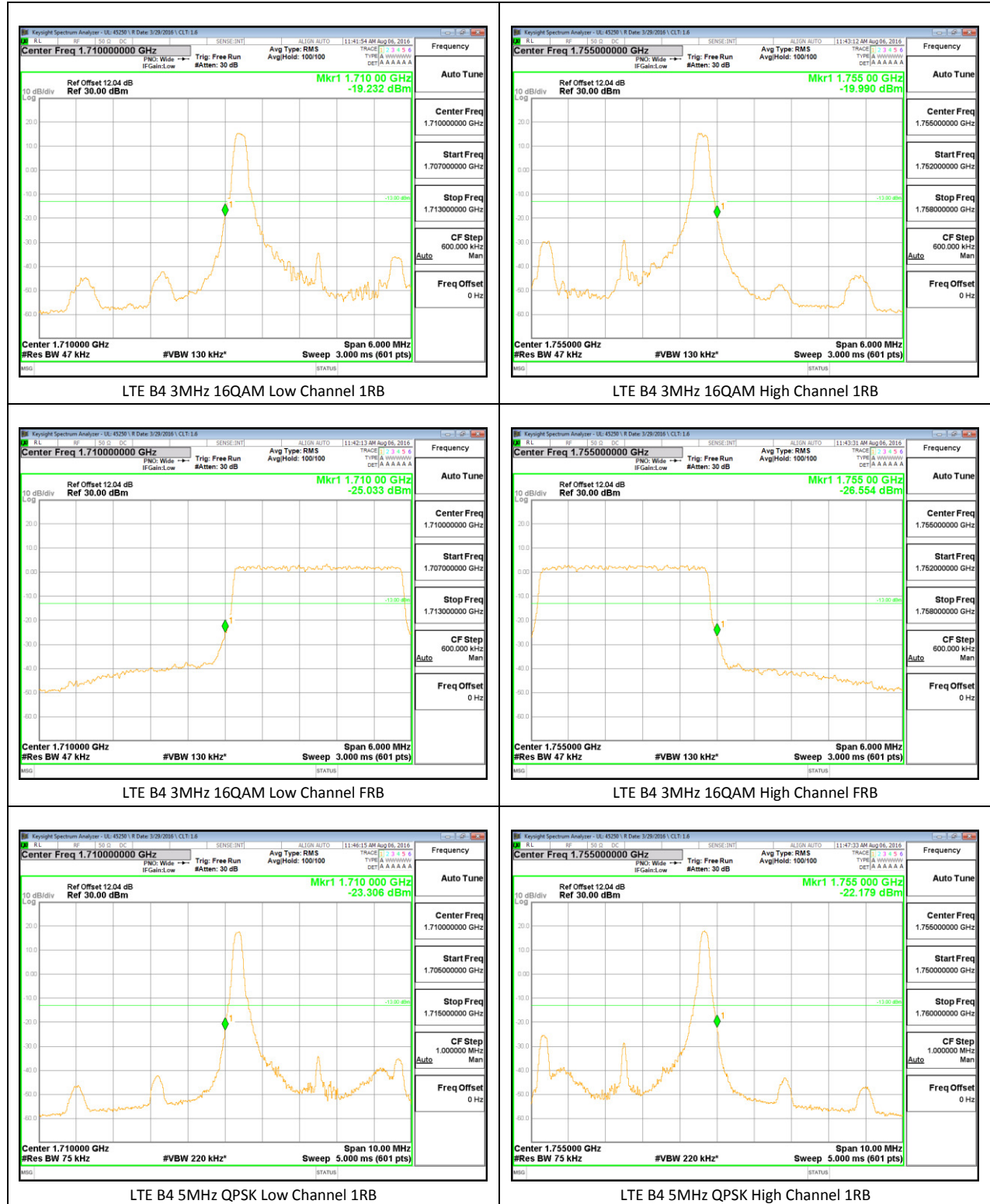
LTE B4 3MHz QPSK High Channel 1RB

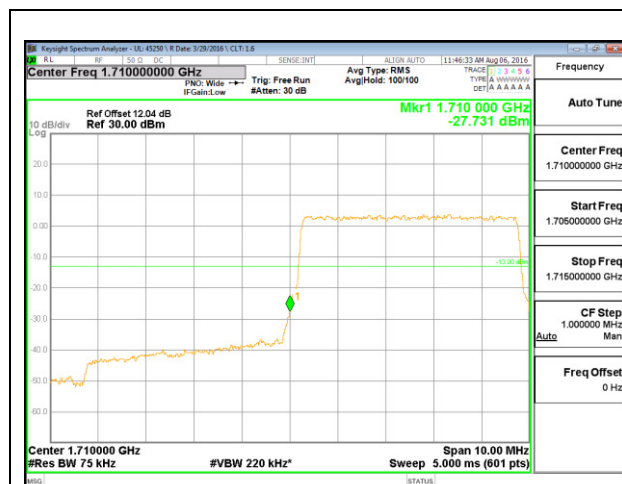


LTE B4 3MHz QPSK Low Channel FRB

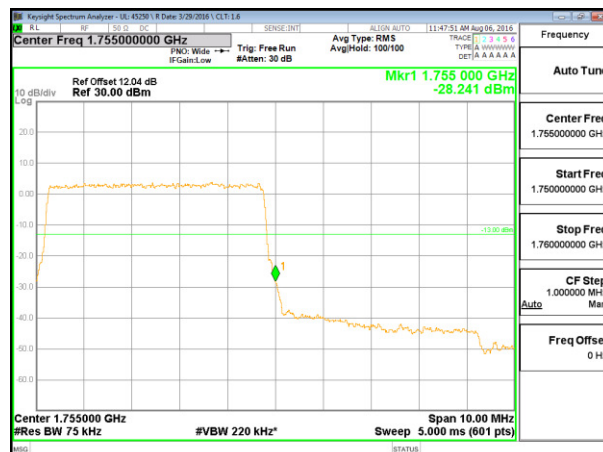


LTE B4 3MHz QPSK High Channel FRB

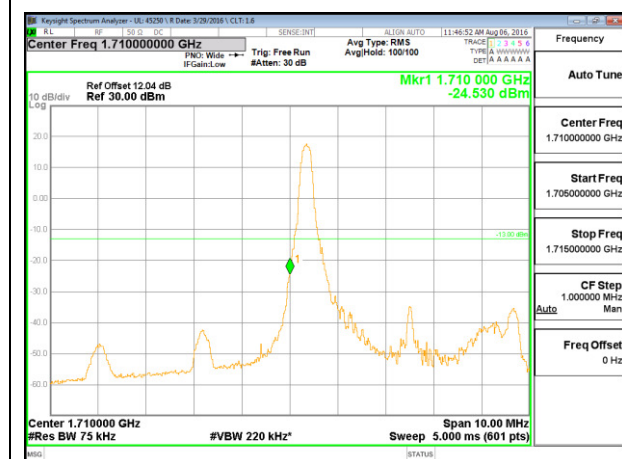




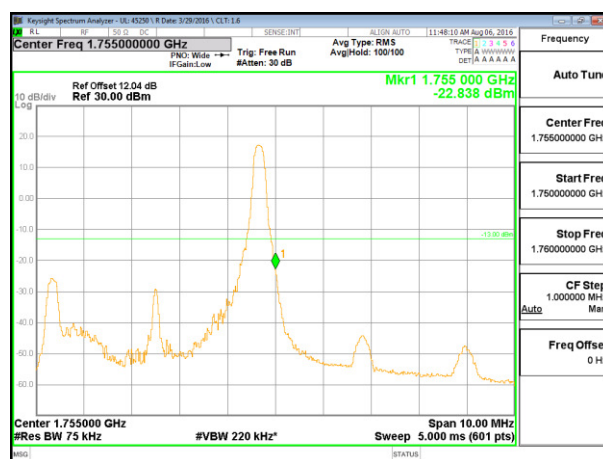
LTE B4 5MHz QPSK Low Channel FRB



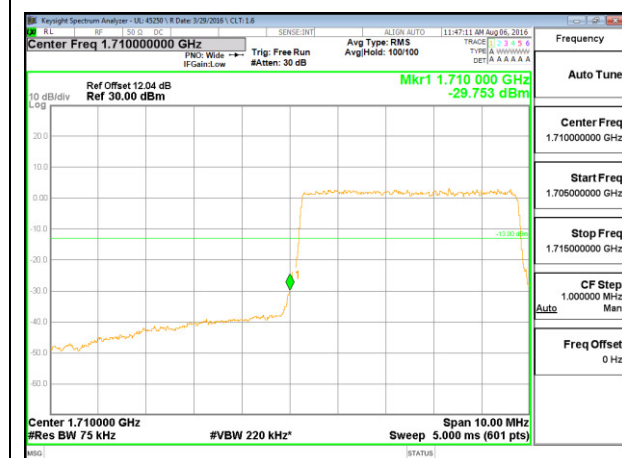
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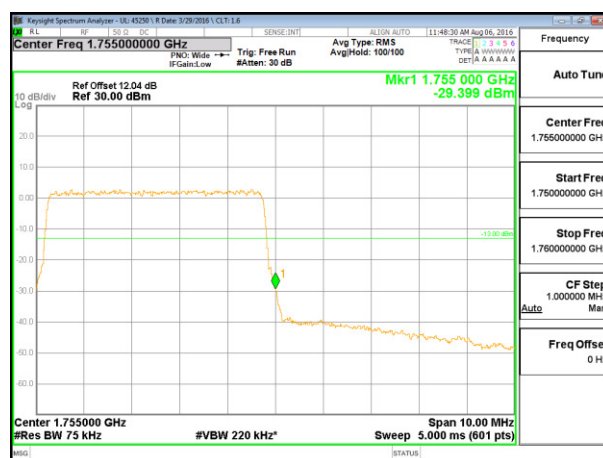
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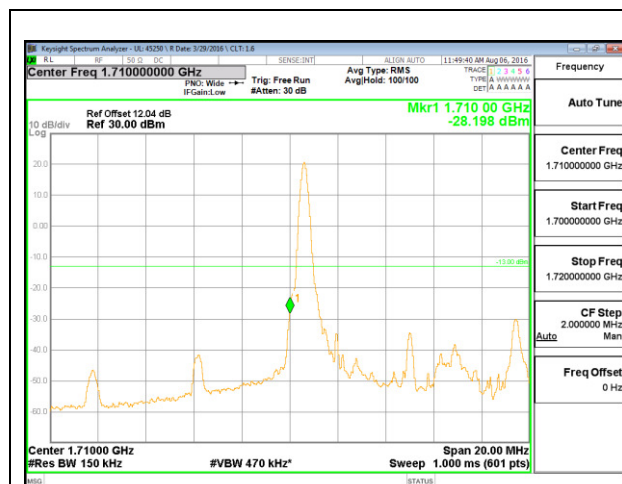
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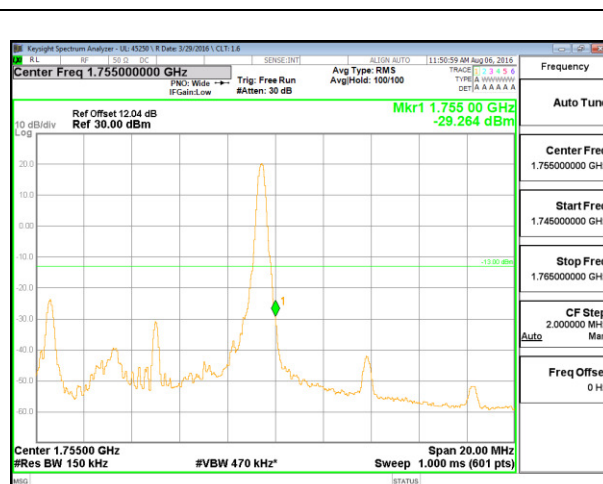
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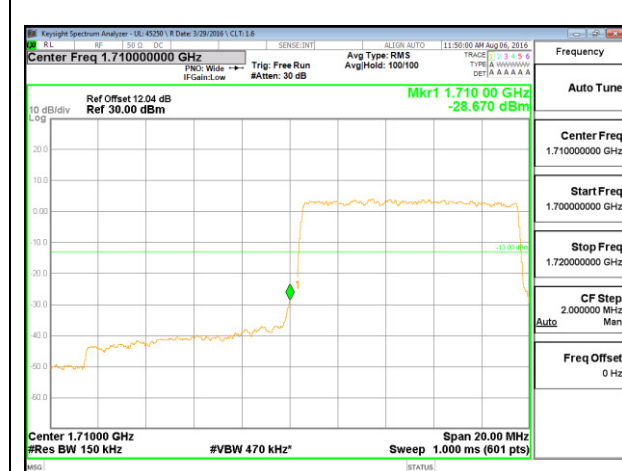
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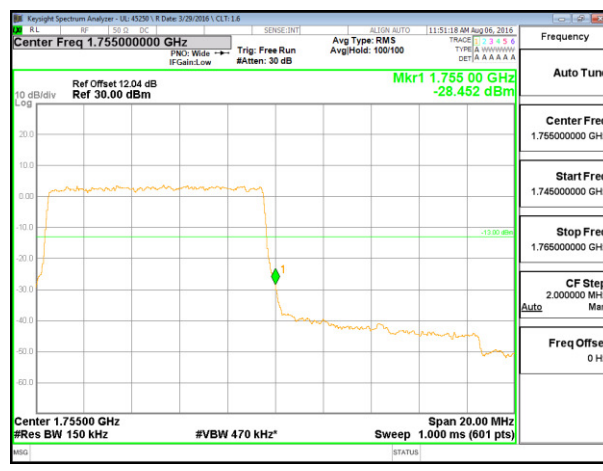
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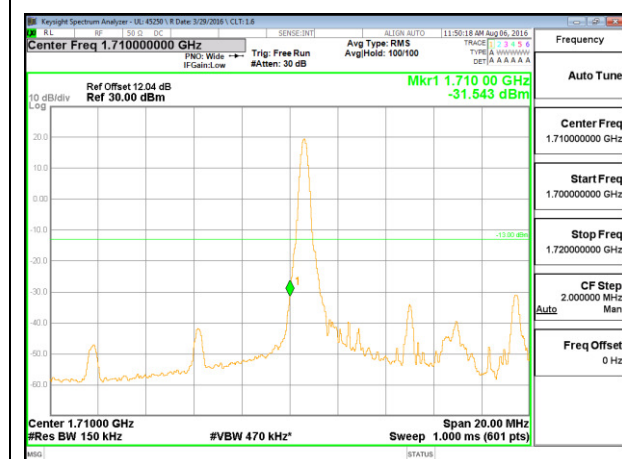
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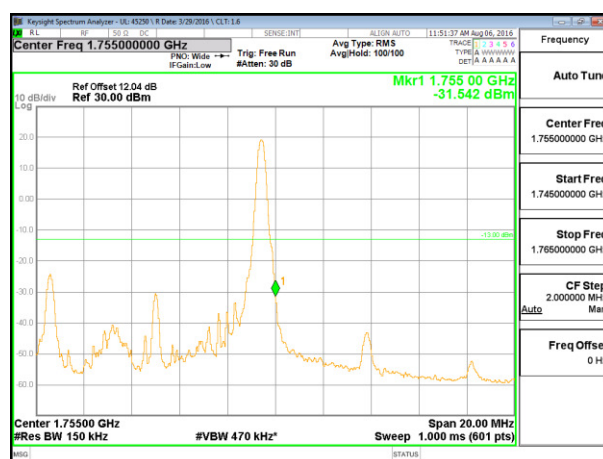
LTE B4 10MHz QPSK Low Channel FRB



LTE B4 10MHz QPSK High Channel FRB



LTE B4 10MHz 16QAM Low Channel 1RB



LTE B4 10MHz 16QAM High Channel 1RB