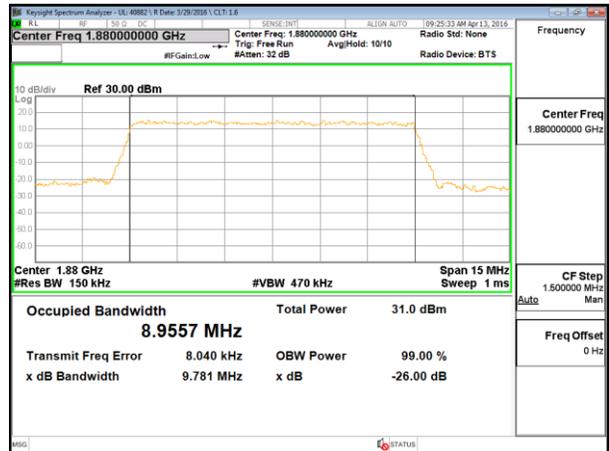
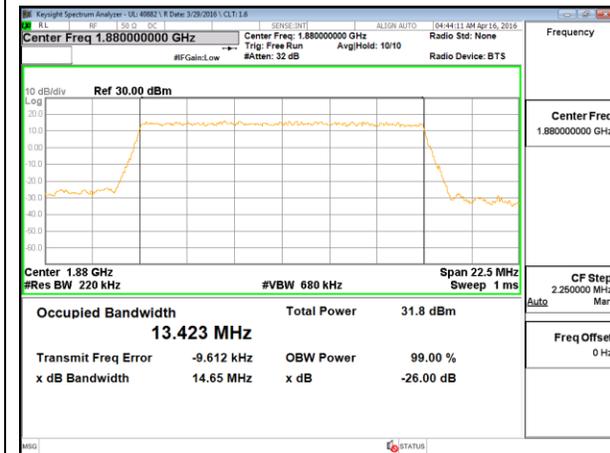


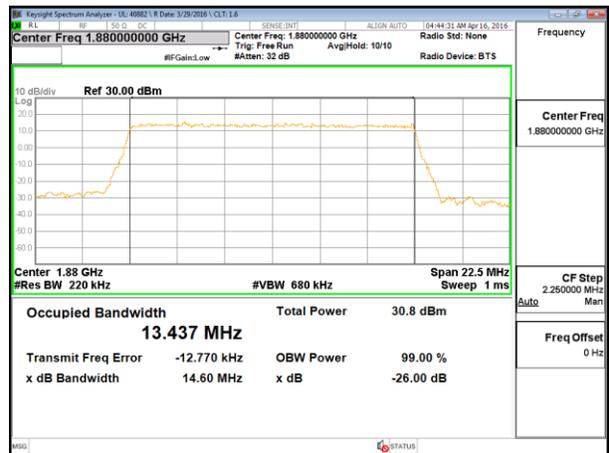
LTE B2 10MHz QPSK Middle Channel



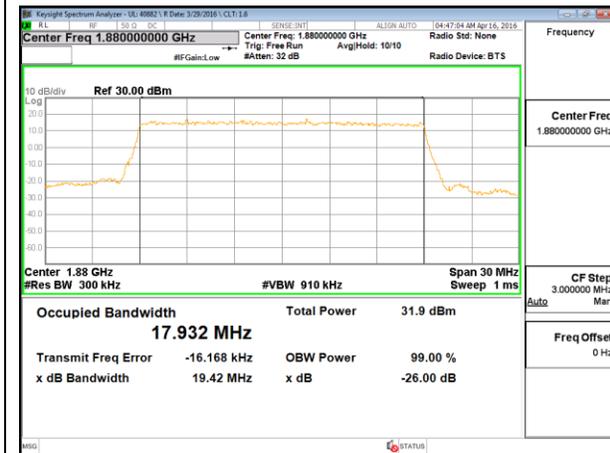
LTE B2 10MHz 16QAM Middle Channel



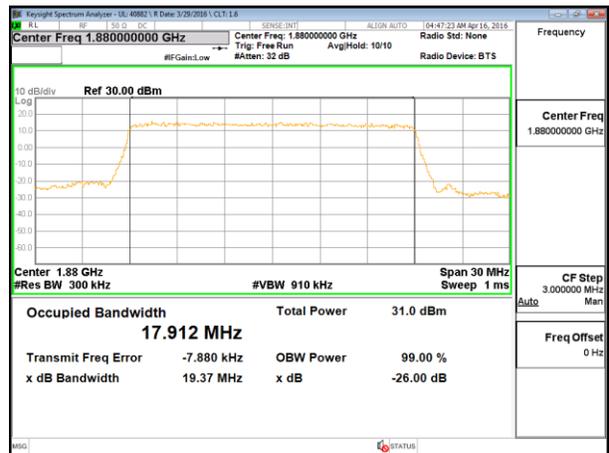
LTE B2 15MHz QPSK Middle Channel



LTE B2 15MHz 16QAM Middle Channel



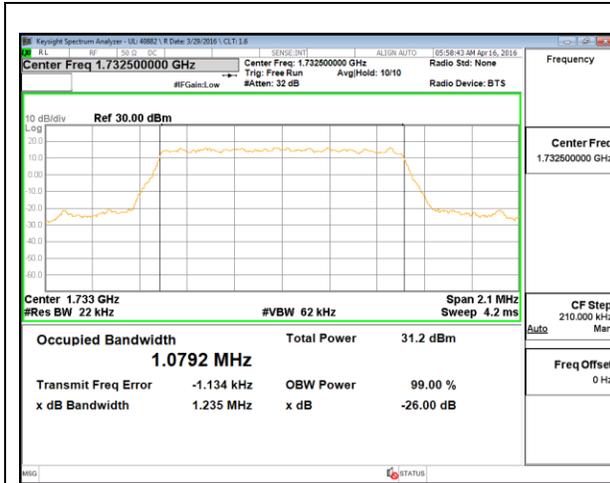
LTE B2 20MHz QPSK Middle Channel



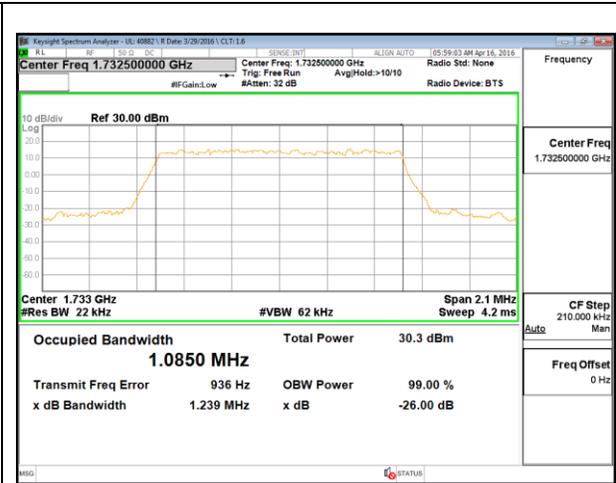
LTE B2 20MHz 16QAM Middle Channel

**LTE Band 4**

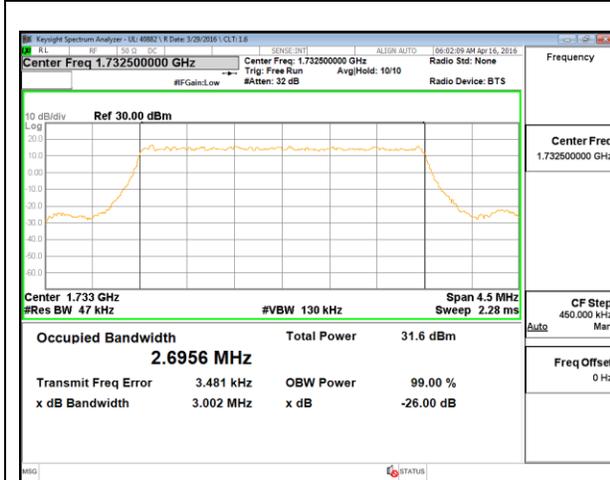
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
1.4	QPSK	6/0	1710.7	1.09	1.25
1.4	QPSK	6/0	1732.5	1.08	1.24
1.4	QPSK	6/0	1754.3	1.09	1.24
1.4	16QAM	6/0	1710.7	1.09	1.24
1.4	16QAM	6/0	1732.5	1.09	1.24
1.4	16QAM	6/0	1754.3	1.09	1.25
3	QPSK	15/0	1711.5	2.7	3.05
3	QPSK	15/0	1732.5	2.7	3
3	QPSK	15/0	1753.5	2.7	3.03
3	16QAM	15/0	1711.5	2.7	3.01
3	16QAM	15/0	1732.5	2.7	3.04
3	16QAM	15/0	1753.5	2.7	3
5	QPSK	25/0	1712.5	4.49	4.96
5	QPSK	25/0	1732.5	4.48	4.96
5	QPSK	25/0	1752.5	4.5	4.95
5	16QAM	25/0	1712.5	4.49	4.94
5	16QAM	25/0	1732.5	4.48	4.93
5	16QAM	25/0	1752.5	4.5	4.98
10	QPSK	50/0	1715	8.95	9.87
10	QPSK	50/0	1732.5	8.96	9.79
10	QPSK	50/0	1750	8.98	9.85
10	16QAM	50/0	1715	8.98	9.78
10	16QAM	50/0	1732.5	8.98	9.77
10	16QAM	50/0	1750	8.93	9.82
15	QPSK	75/0	1717.5	13.46	14.64
15	QPSK	75/0	1732.5	13.44	14.76
15	QPSK	75/0	1747.5	13.42	14.67
15	16QAM	75/0	1717.5	13.43	14.64
15	16QAM	75/0	1732.5	13.46	14.72
15	16QAM	75/0	1747.5	13.43	14.58
20	QPSK	100/0	1720	17.9	19.62
20	QPSK	100/0	1732.5	17.93	19.45
20	QPSK	100/0	1745	17.93	19.3
20	16QAM	100/0	1720	17.92	19.53
20	16QAM	100/0	1732.5	17.98	19.43
20	16QAM	100/0	1745	17.91	19.42



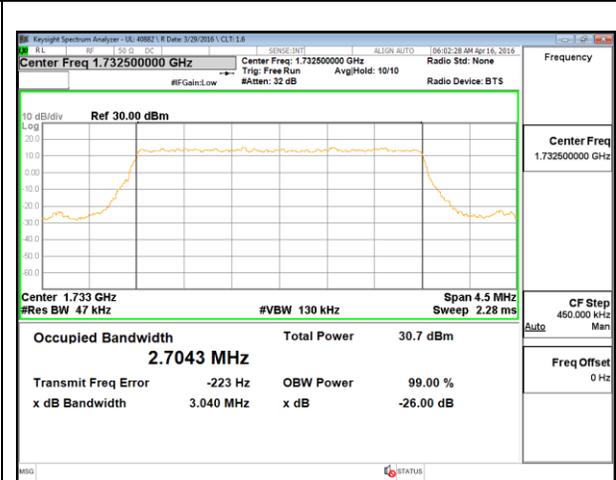
LTE B4 1.4MHz QPSK Middle Channel



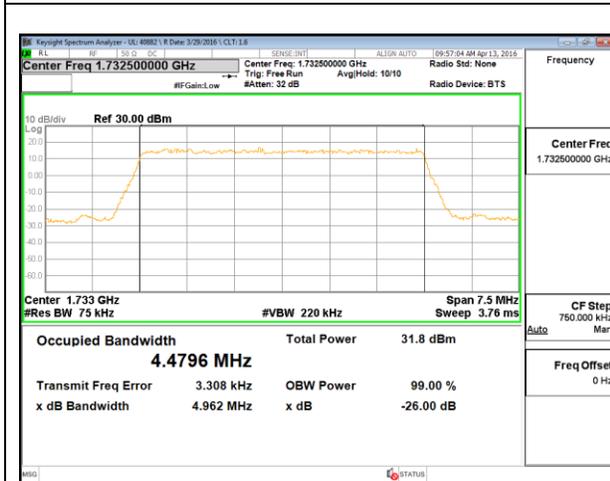
LTE B4 1.4MHz 16QAM Middle Channel



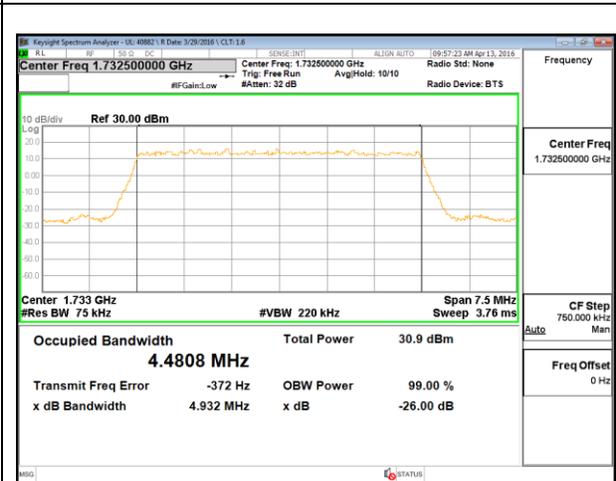
LTE B4 3MHz QPSK Middle Channel



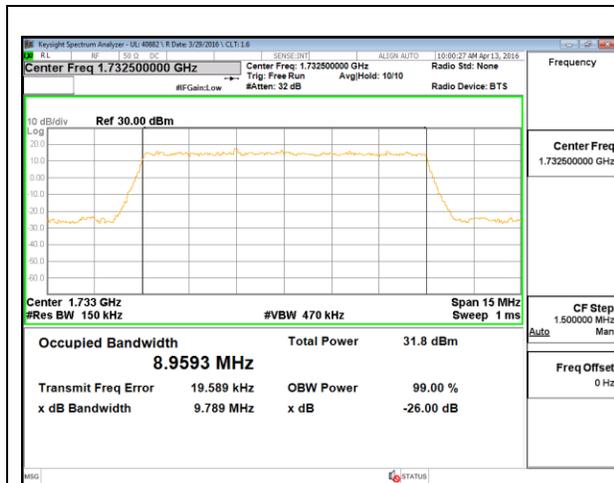
LTE B4 3MHz 16QAM Middle Channel



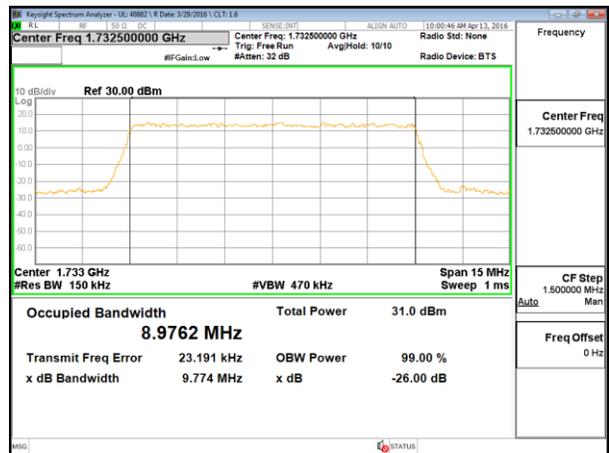
LTE B4 5MHz QPSK Middle Channel



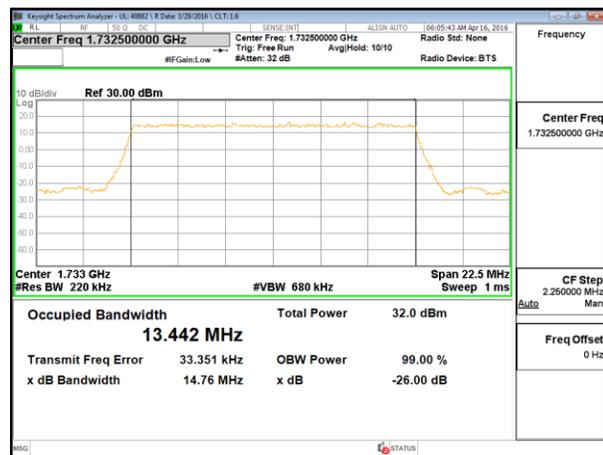
LTE B4 5MHz 16QAM Middle Channel



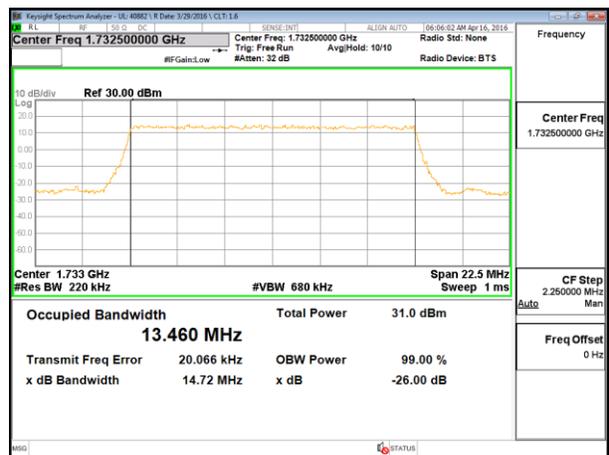
LTE B4 10MHz QPSK Middle Channel



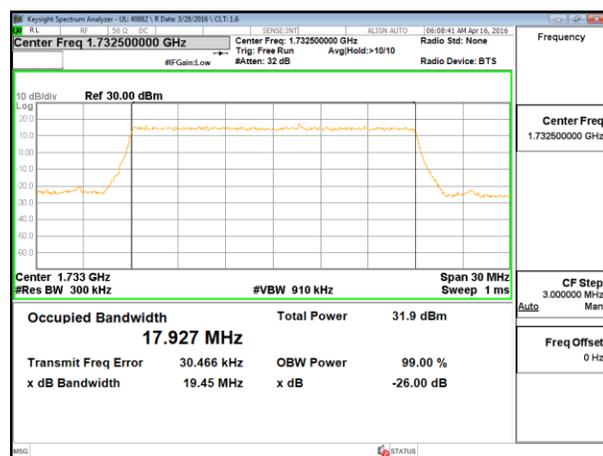
LTE B4 10MHz 16QAM Middle Channel



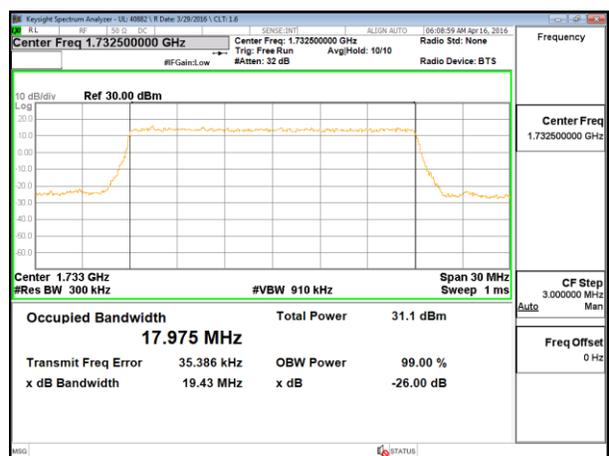
LTE B4 15MHz QPSK Middle Channel



LTE B4 15MHz 16QAM Middle Channel



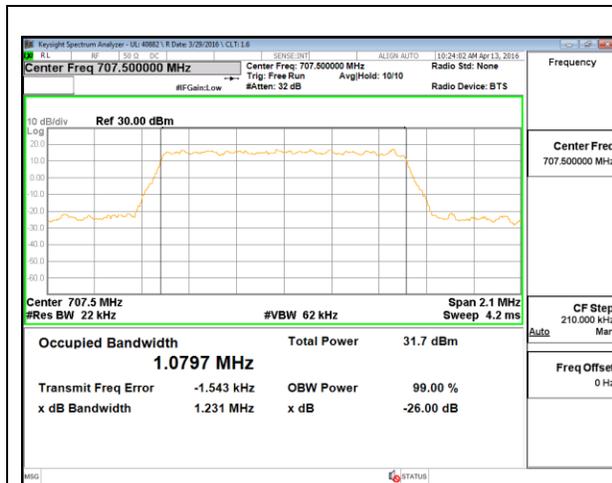
LTE B4 20MHz QPSK Middle Channel



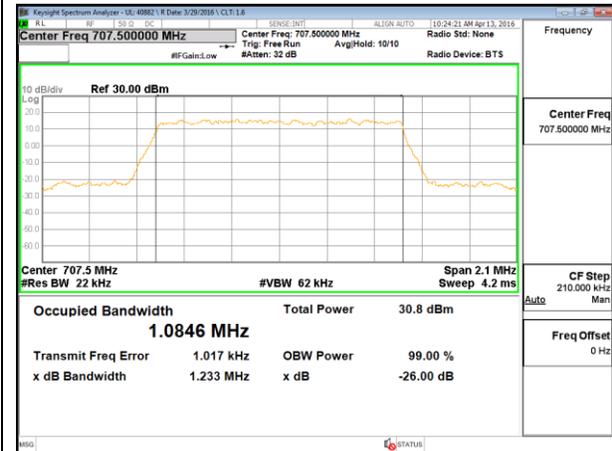
LTE B4 20MHz 16QAM Middle Channel

**LTE Band 12**

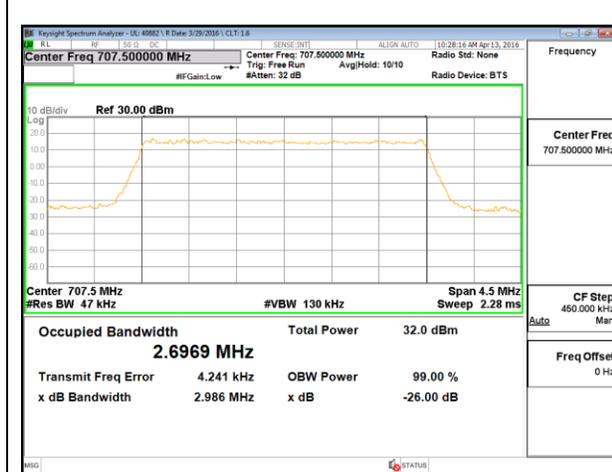
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
1.4	QPSK	6/0	699.7	1.09	1.23
1.4	QPSK	6/0	707.5	1.08	1.23
1.4	QPSK	6/0	715.3	1.09	1.23
1.4	16QAM	6/0	699.7	1.08	1.24
1.4	16QAM	6/0	707.5	1.08	1.23
1.4	16QAM	6/0	715.3	1.09	1.24
3	QPSK	15/0	700.5	2.7	3
3	QPSK	15/0	707.5	2.7	2.99
3	QPSK	15/0	714.5	2.7	2.98
3	16QAM	15/0	700.5	2.7	3
3	16QAM	15/0	707.5	2.7	3.02
3	16QAM	15/0	714.5	2.7	2.99
5	QPSK	25/0	701.5	4.48	4.91
5	QPSK	25/0	707.5	4.51	4.94
5	QPSK	25/0	713.5	4.49	4.95
5	16QAM	25/0	701.5	4.48	4.92
5	16QAM	25/0	707.5	4.5	4.94
5	16QAM	25/0	713.5	4.49	4.93
10	QPSK	50/0	704	8.96	9.75
10	QPSK	50/0	707.5	8.97	9.68
10	QPSK	50/0	711	8.96	9.78
10	16QAM	50/0	704	8.99	9.78
10	16QAM	50/0	707.5	8.97	9.78
10	16QAM	50/0	711	8.95	9.78



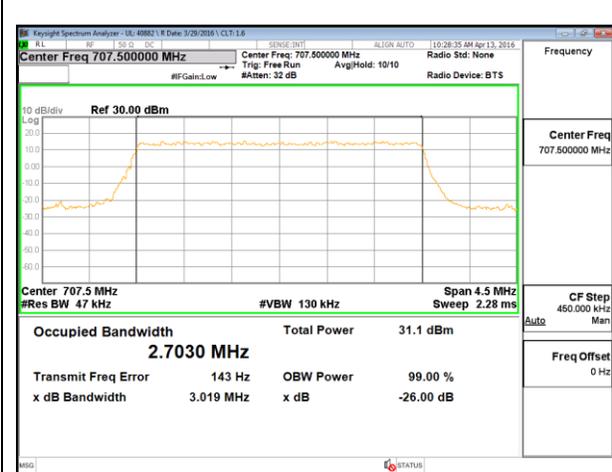
LTE B12 1.4MHz QPSK Middle Channel



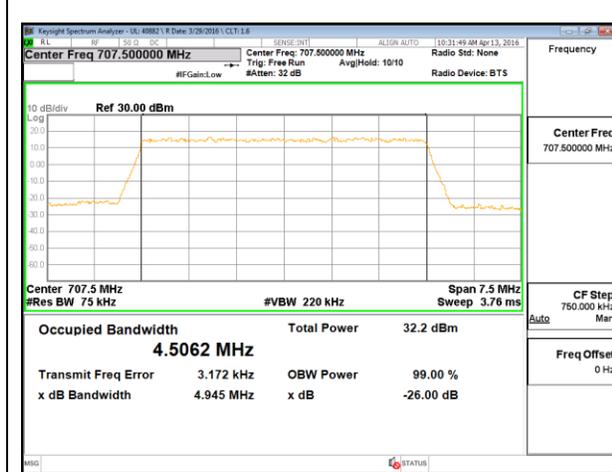
LTE B12 1.4MHz 16QAM Middle Channel



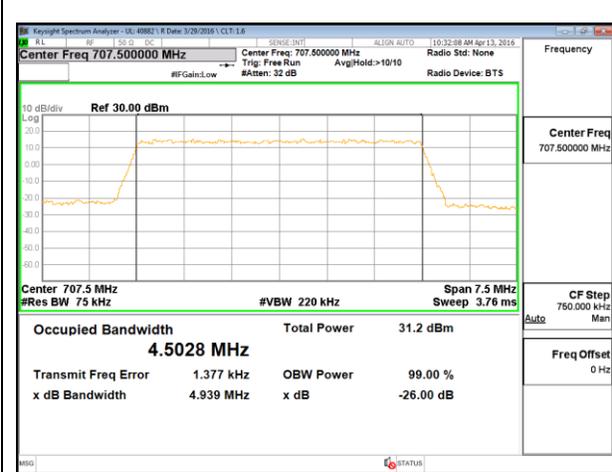
LTE B12 3MHz QPSK Middle Channel



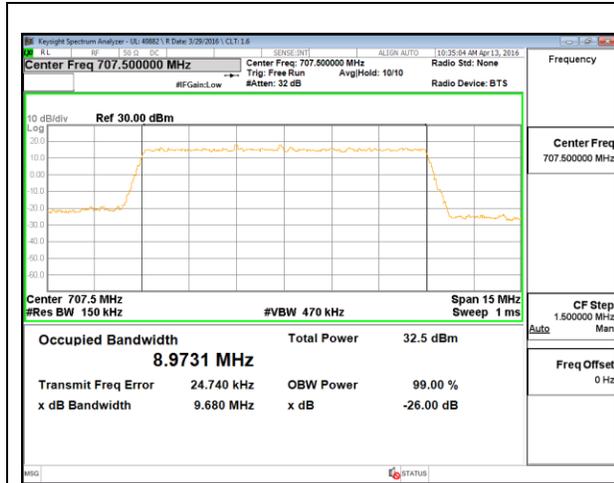
LTE B12 3MHz 16QAM Middle Channel



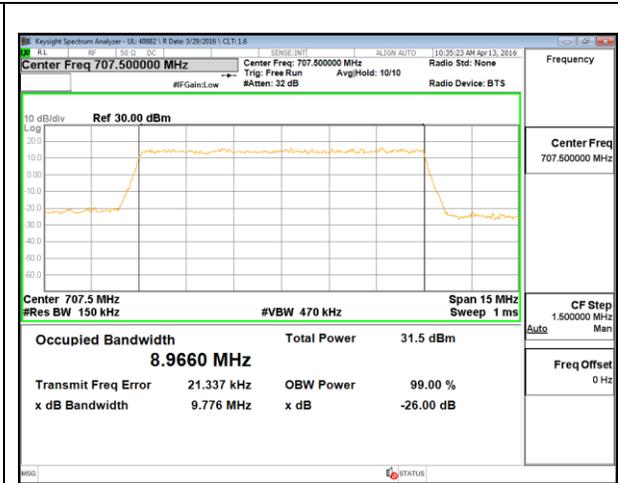
LTE B12 5MHz QPSK Middle Channel



LTE B12 5MHz 16QAM Middle Channel



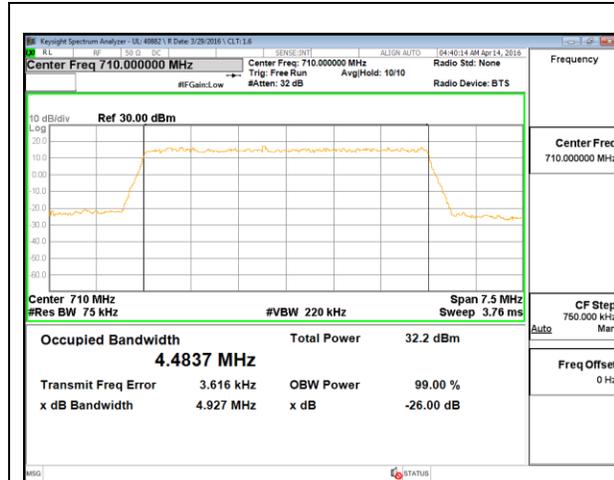
LTE B12 10MHz QPSK Middle Channel



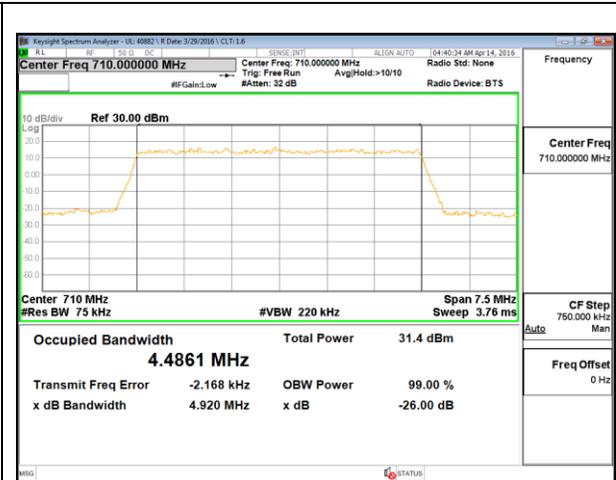
LTE B12 10MHz 16QAM Middle Channel

**LTE Band 17**

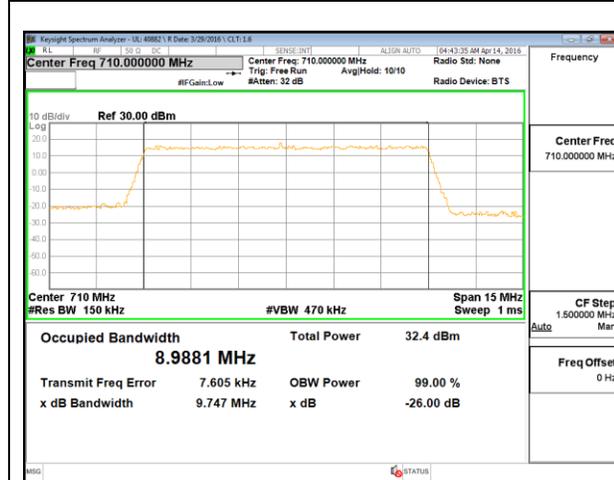
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
5	QPSK	25/0	706.5	4.5	4.96
5	QPSK	25/0	710	4.48	4.93
5	QPSK	25/0	713.5	4.51	4.94
5	16QAM	25/0	706.5	4.49	4.94
5	16QAM	25/0	710	4.49	4.92
5	16QAM	25/0	713.5	4.5	4.96
10	QPSK	50/0	709	8.96	9.76
10	QPSK	50/0	710	8.99	9.75
10	QPSK	50/0	711	8.98	9.79
10	16QAM	50/0	709	8.99	9.8
10	16QAM	50/0	710	8.98	9.76
10	16QAM	50/0	711	8.96	9.78



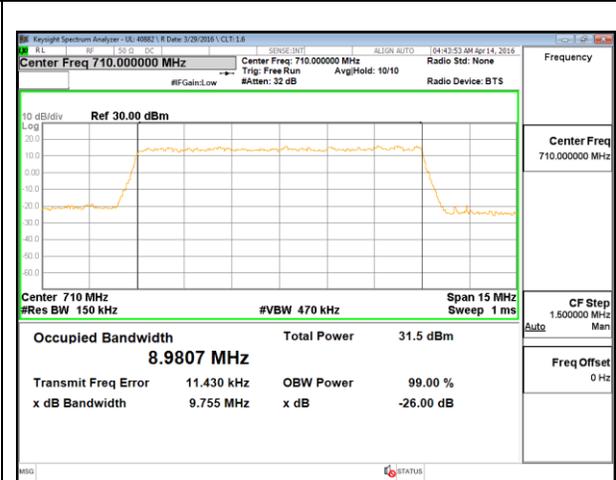
LTE B17 5MHz QPSK Middle Channel



LTE B17 5MHz 16QAM Middle Channel



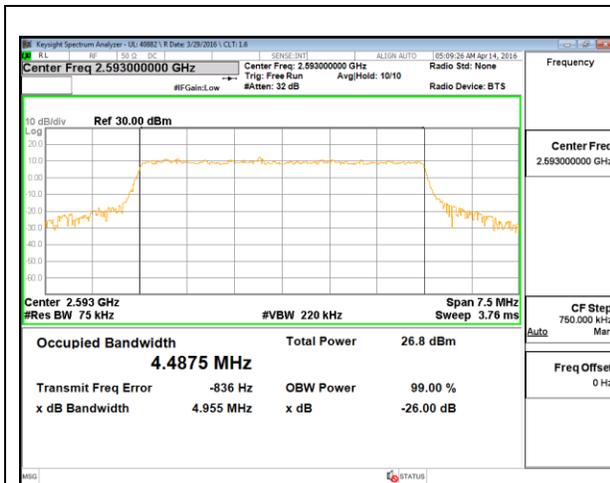
LTE B17 10MHz QPSK Middle Channel



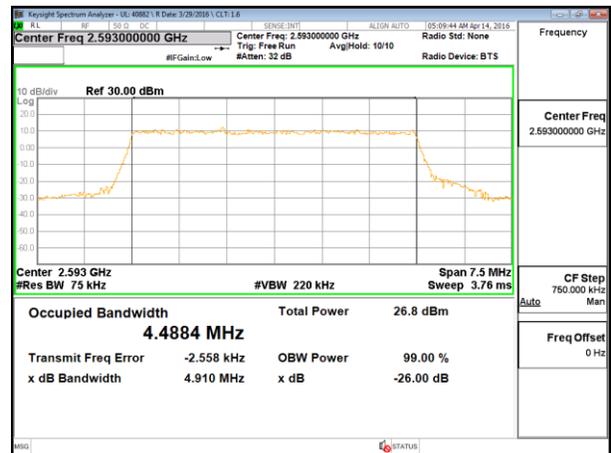
LTE B17 10MHz 16QAM Middle Channel

**LTE Band 41**

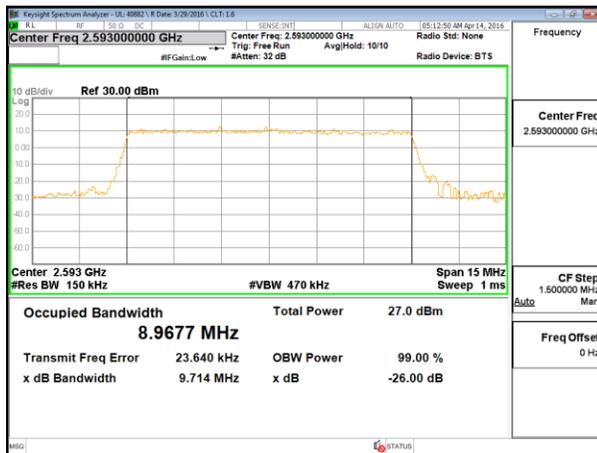
BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
5	QPSK	25/0	2498.5	4.5	4.9
5	QPSK	25/0	2593	4.49	4.96
5	QPSK	25/0	2687.5	4.49	4.92
5	16QAM	25/0	2498.5	4.49	4.92
5	16QAM	25/0	2593	4.49	4.91
5	16QAM	25/0	2687.5	4.49	4.98
10	QPSK	50/0	2501	8.95	9.74
10	QPSK	50/0	2593	8.97	9.71
10	QPSK	50/0	2685	8.91	9.38
10	16QAM	50/0	2501	8.99	9.78
10	16QAM	50/0	2593	8.99	9.76
10	16QAM	50/0	2685	8.95	9.96
15	QPSK	75/0	2503.5	13.43	14.82
15	QPSK	75/0	2593	13.45	14.9
15	QPSK	75/0	2682.5	13.44	14.92
15	16QAM	75/0	2503.5	13.43	14.31
15	16QAM	75/0	2593	13.44	14.96
15	16QAM	75/0	2682.5	13.43	14.49
20	QPSK	100/0	2506	17.93	20.13
20	QPSK	100/0	2593	17.93	19.4
20	QPSK	100/0	2680	17.92	19.77
20	16QAM	100/0	2506	17.94	19.28
20	16QAM	100/0	2593	17.93	19.68
20	16QAM	100/0	2680	17.91	20.05



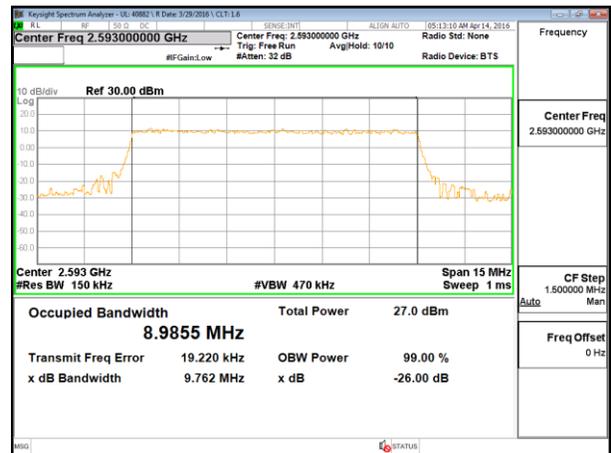
LTE B41 5MHz QPSK Middle Channel



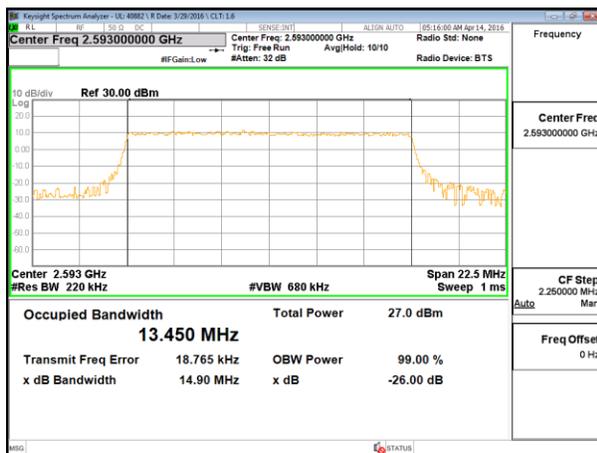
LTE B41 5MHz 16QAM Middle Channel



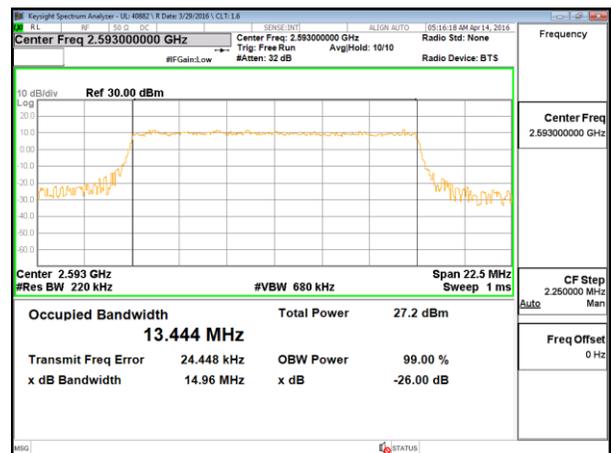
LTE B41 10MHz QPSK Middle Channel



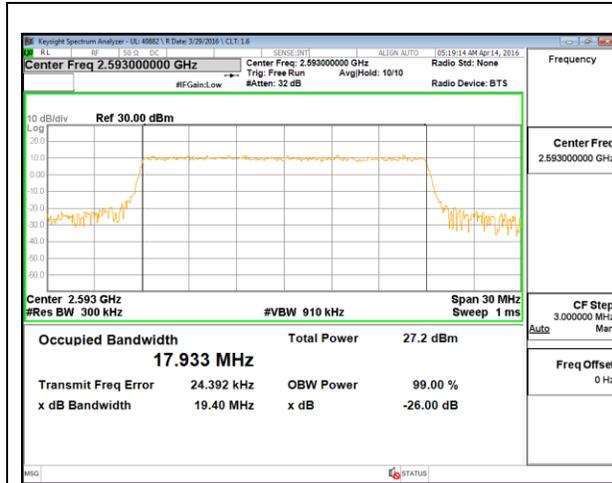
LTE B41 10MHz 16QAM Middle Channel



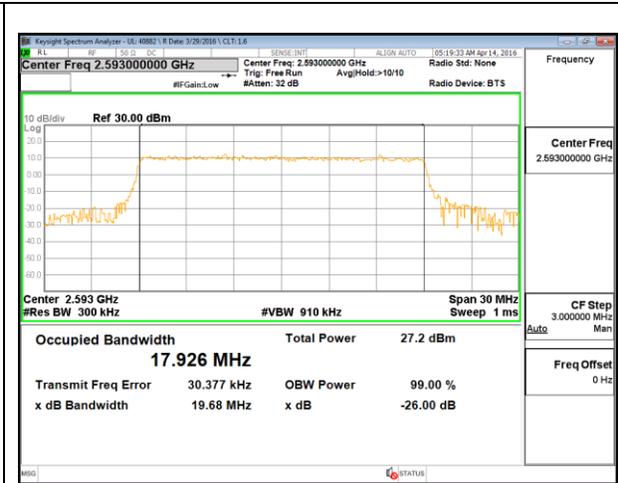
LTE B41 15MHz QPSK Middle Channel



LTE B41 15MHz 16QAM Middle Channel



LTE B41 20MHz QPSK Middle Channel



LTE B41 20MHz 16QAM Middle Channel

## 11. BAND EDGE EMISSIONS

### RULE PART(S)

FCC: §22.359, §24.238 and §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.

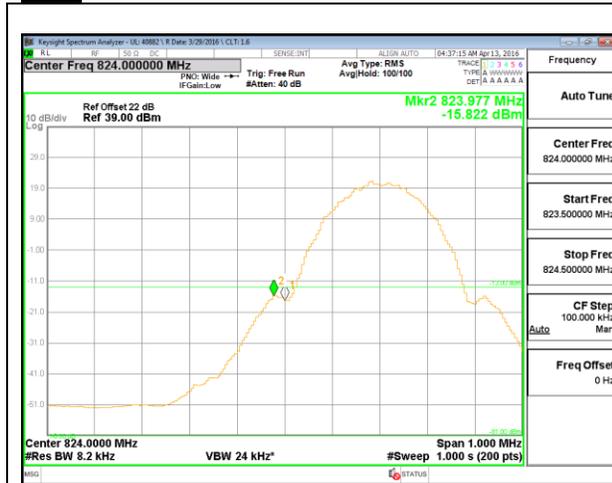
Part 27: (m)(4) (4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, 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

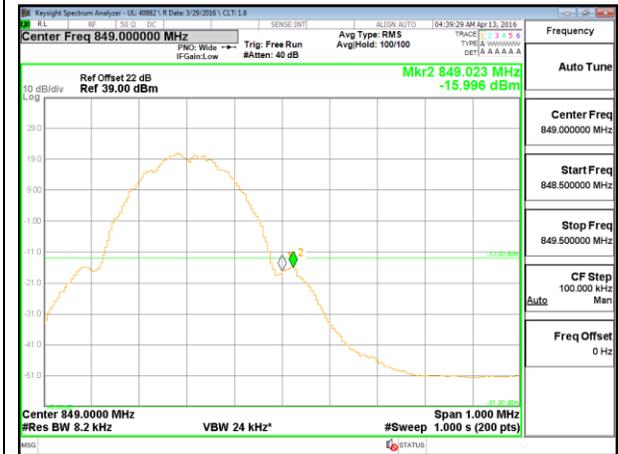
Per KDB 971168 D01 Power Meas License Digital Systems v02r02

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.

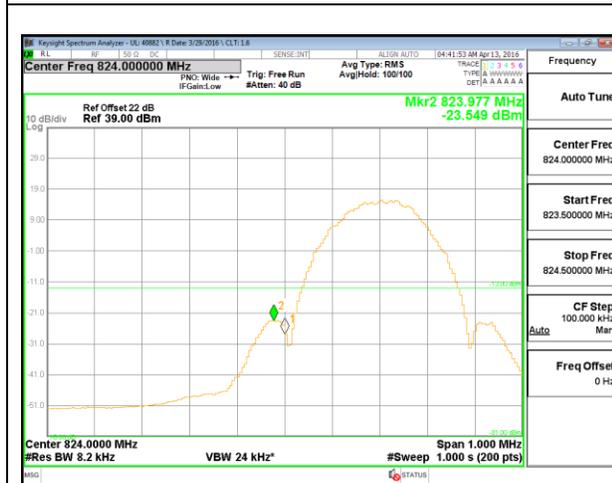
# 11.1. BAND EDGE PLOTS GSM



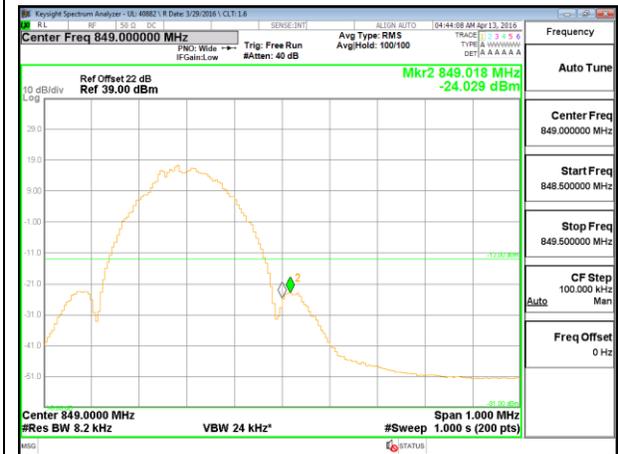
GSM850 GPRS Low Channel



GSM850 GPRS High Channel



GSM850 EGPRS Low Channel



GSM850 EGPRS High Channel



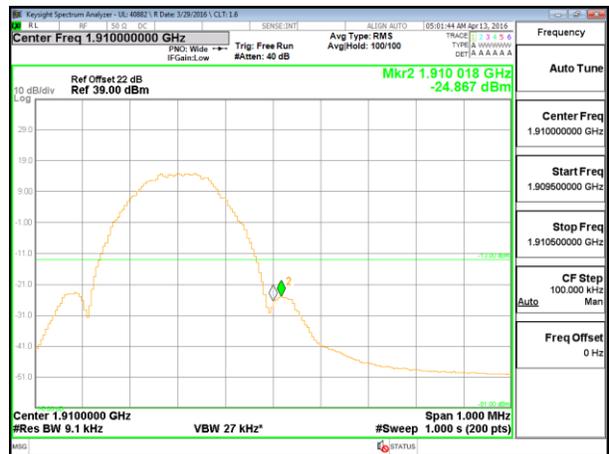
GSM1900 GPRS Low Channel



GSM1900 GPRS High Channel



GSM1900 EGPRS Low Channel



GSM1900 EGPRS High Channel

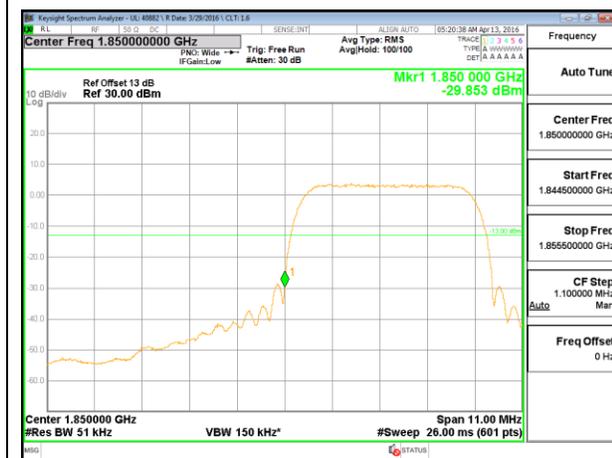
WCDMA



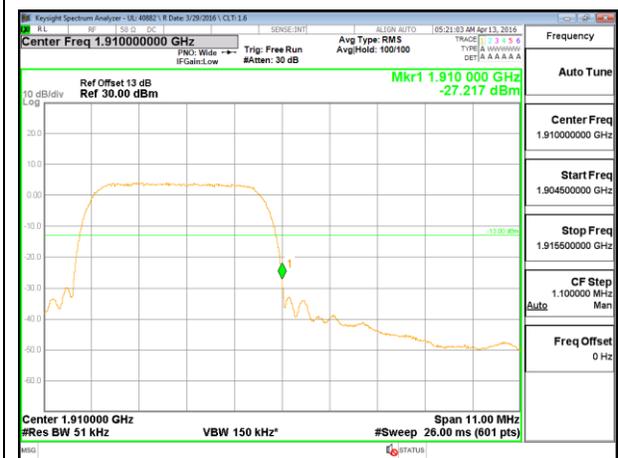
B2 REL99 Low Channel



B2 REL99 High Channel



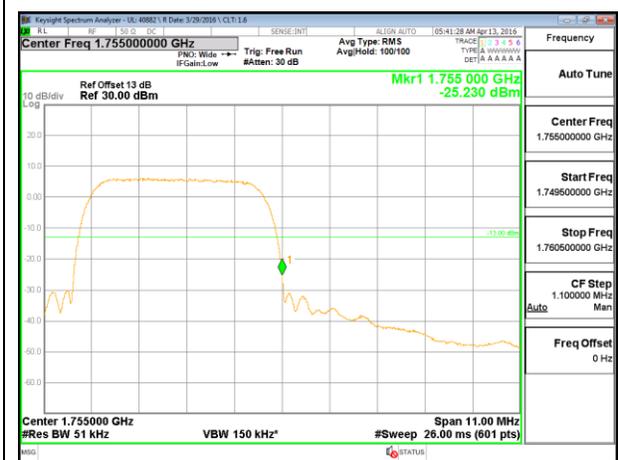
B2 HSDPA Low Channel



B2 HSDPA High Channel



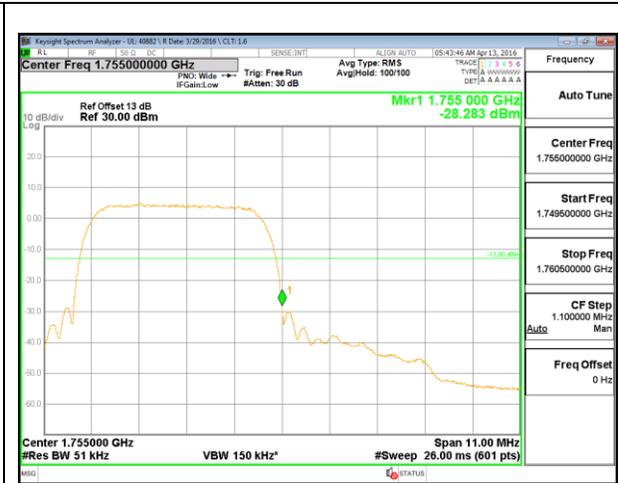
B4 REL99 Low Channel



B4 REL99 High Channel



B4 HSDPA Low Channel

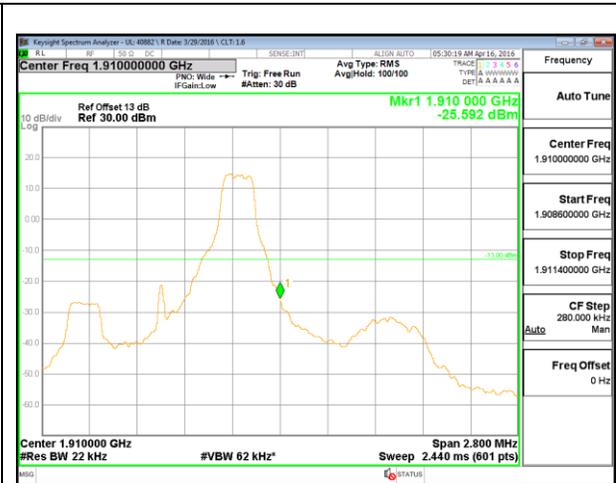


B4 HSDPA High Channel

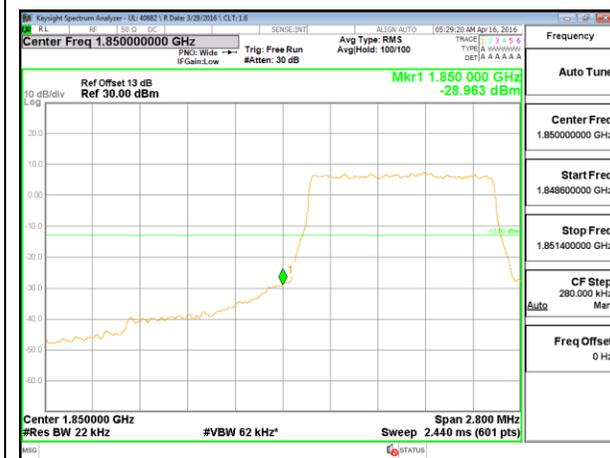
**LTE Band 2**



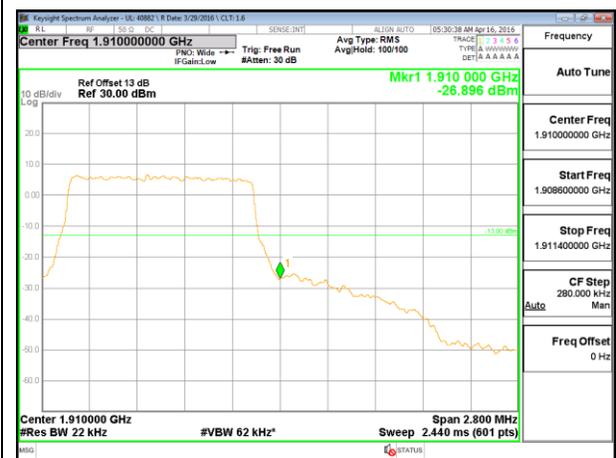
LTE B2 1.4MHz QPSK Low Channel 1RB



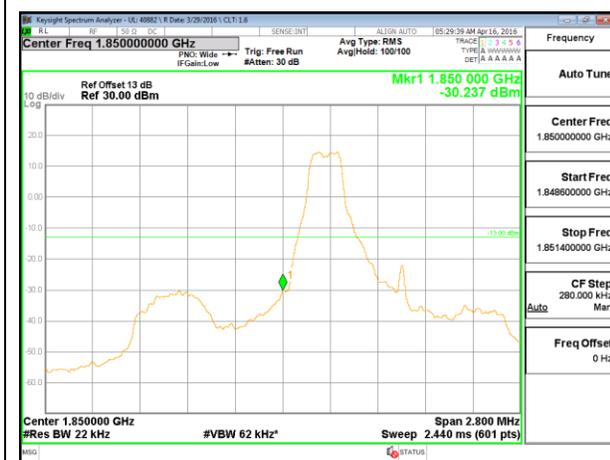
LTE B2 1.4MHz QPSK High Channel 1RB



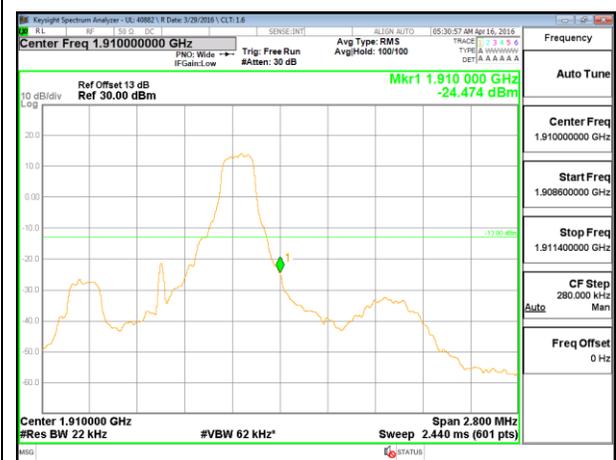
LTE B2 1.4MHz QPSK Low Channel FRB



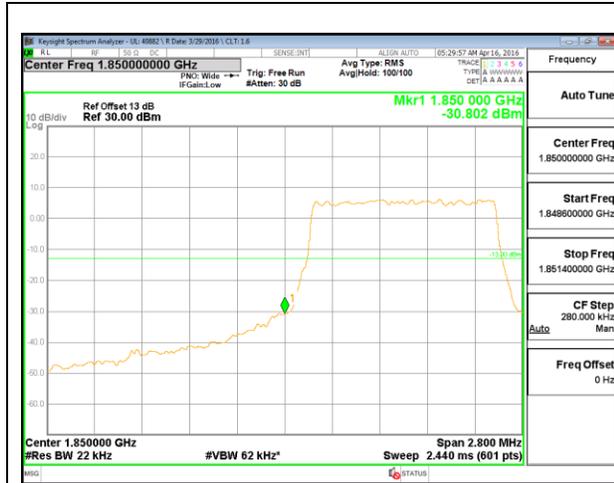
LTE B2 1.4MHz QPSK High Channel FRB



LTE B2 1.4MHz 16QAM Low Channel 1RB



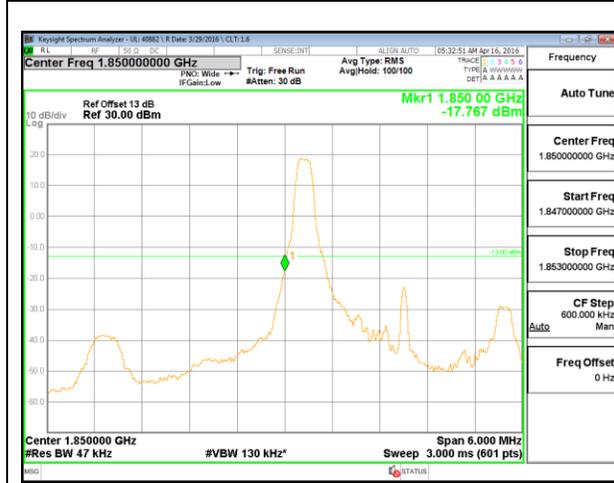
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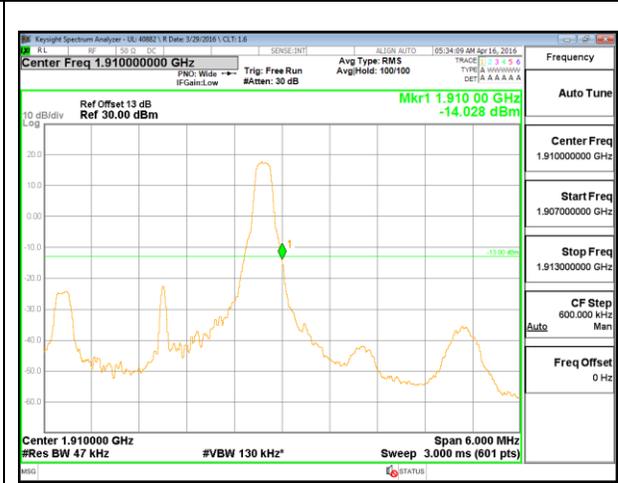
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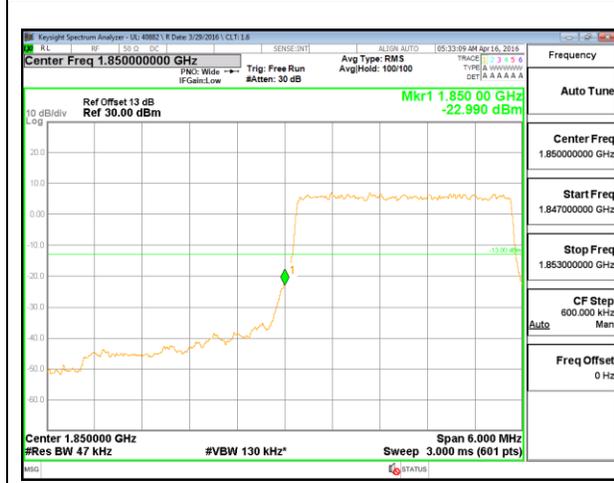
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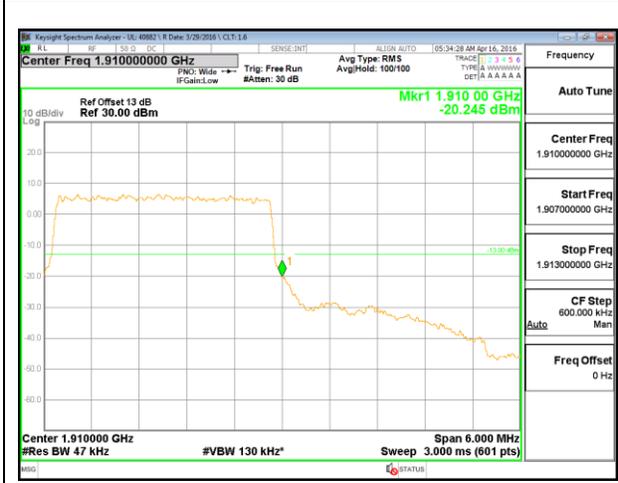
LTE B2 3MHz QPSK Low Channel 1RB



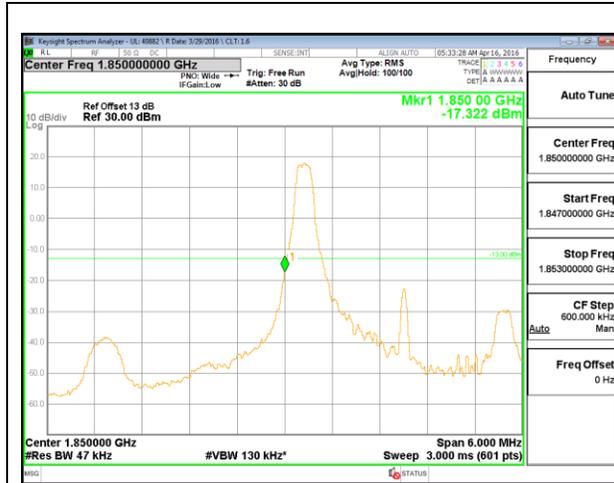
LTE B2 3MHz QPSK High Channel 1RB



LTE B2 3MHz QPSK Low Channel FRB



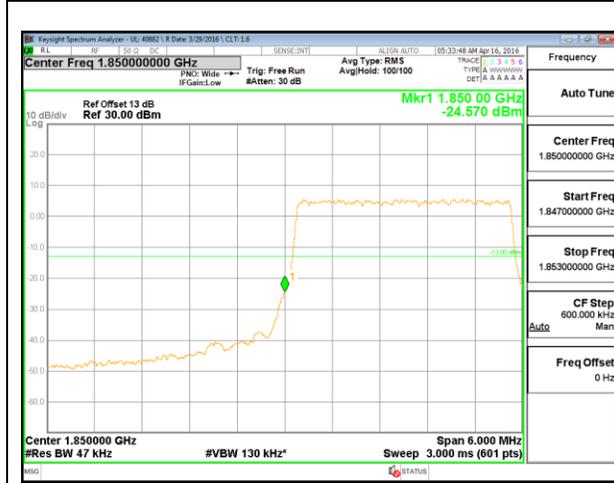
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LTE B2 3MHz 16QAM Low Channel 1RB



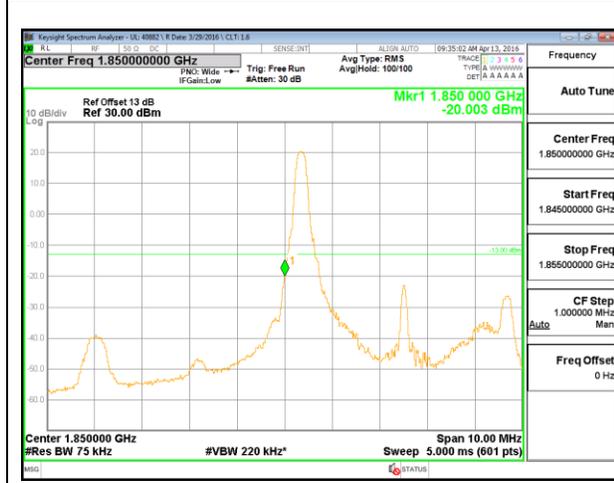
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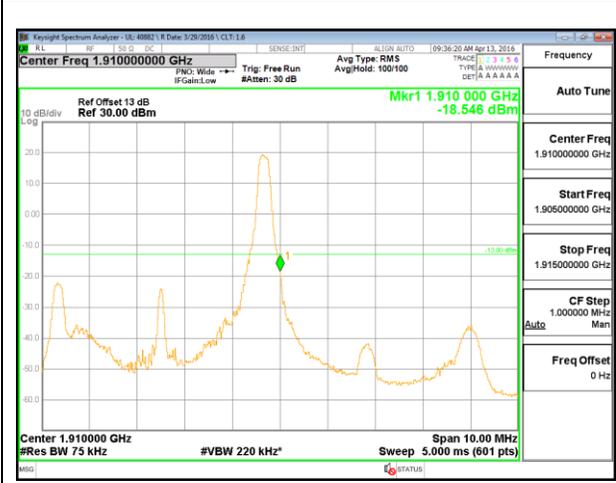
LTE B2 3MHz 16QAM Low Channel FRB



LTE B2 3MHz 16QAM High Channel FRB



LTE B2 5MHz QPSK Low Channel 1RB



LTE B2 5MHz QPSK High Channel 1RB