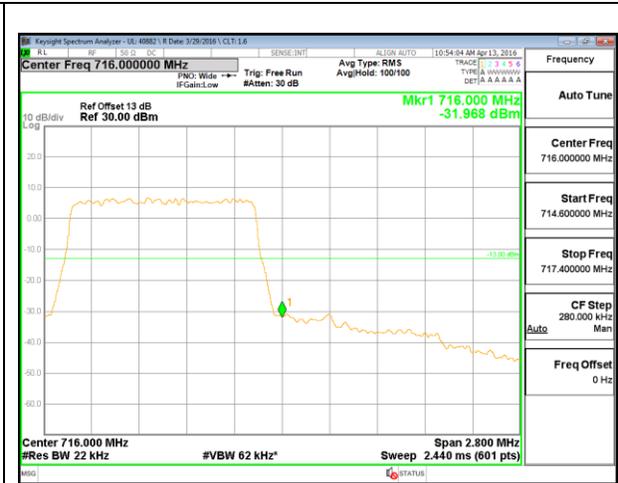
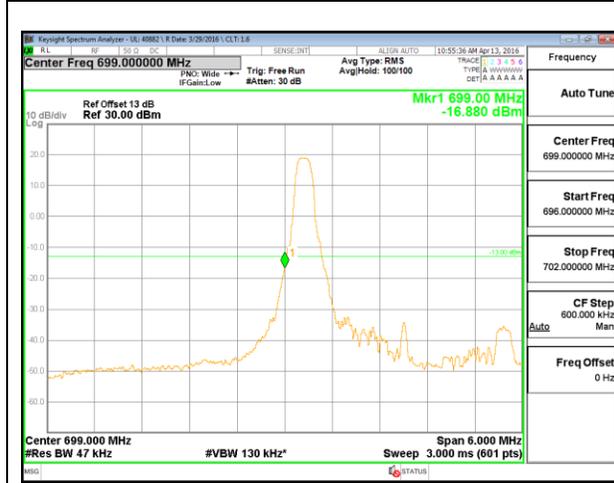




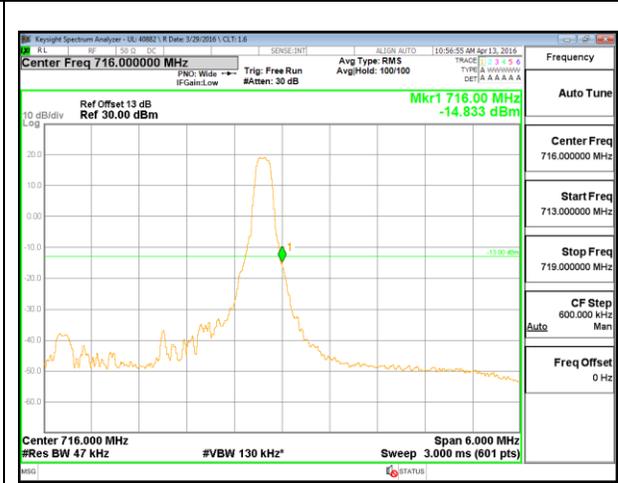
LTE B12 1.4MHz 16QAM Low Channel FRB



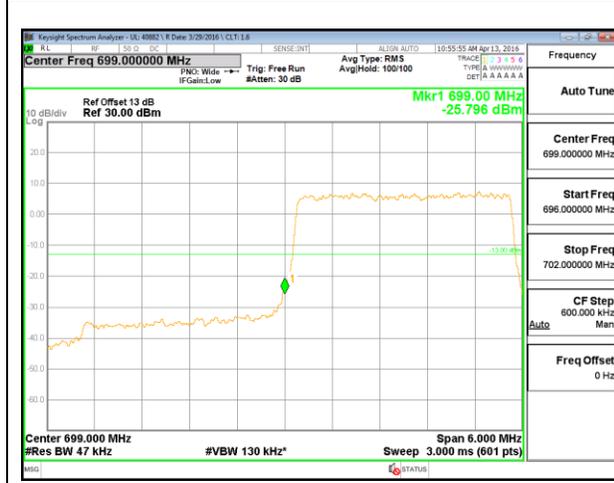
LTE B12 1.4MHz 16QAM High Channel FRB



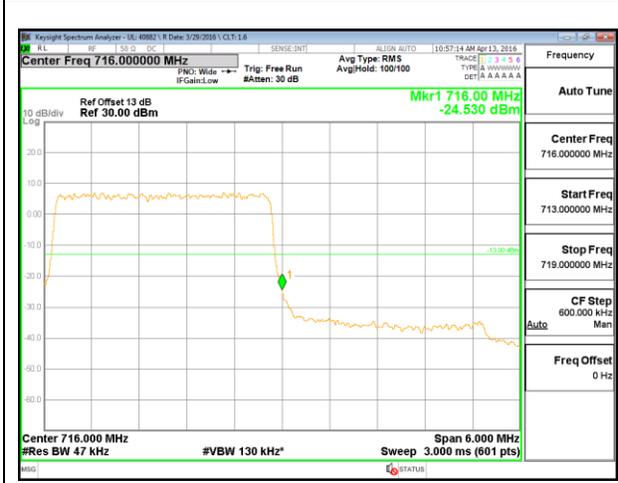
LTE B12 3MHz QPSK Low Channel 1RB



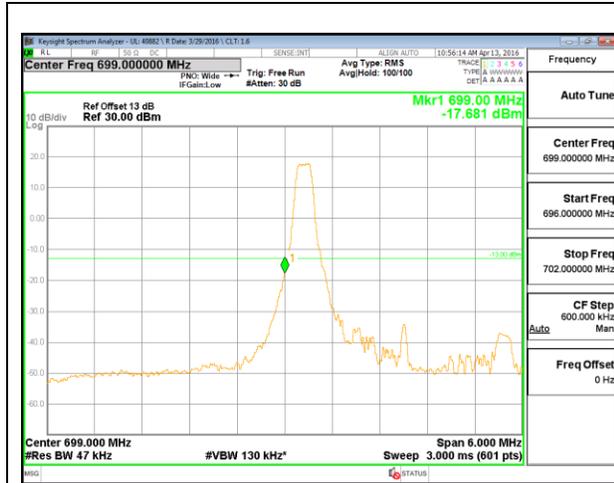
LTE B12 3MHz QPSK High Channel 1RB



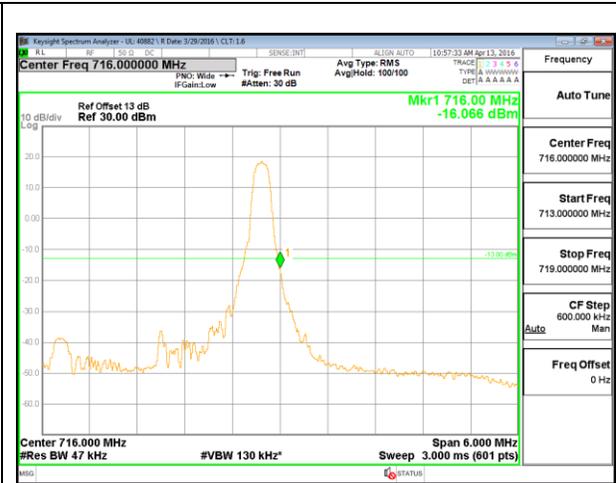
LTE B12 3MHz QPSK Low Channel FRB



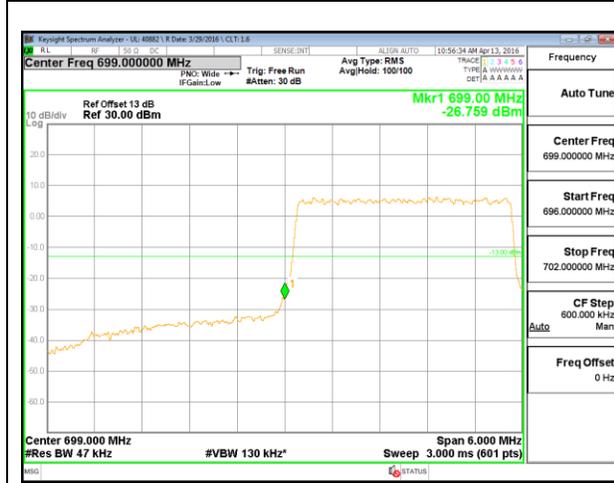
LTE B12 3MHz QPSK High Channel FRB



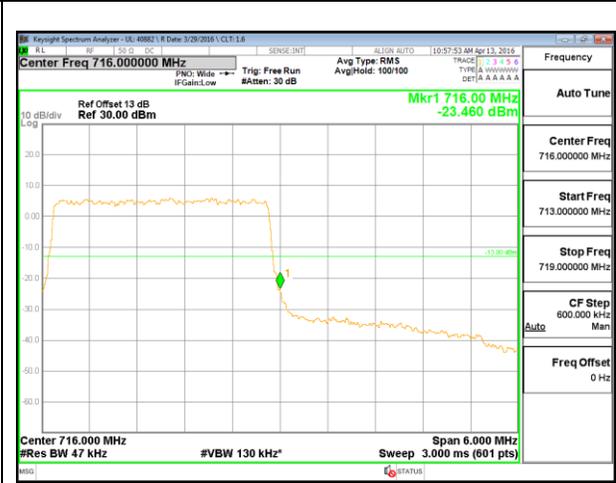
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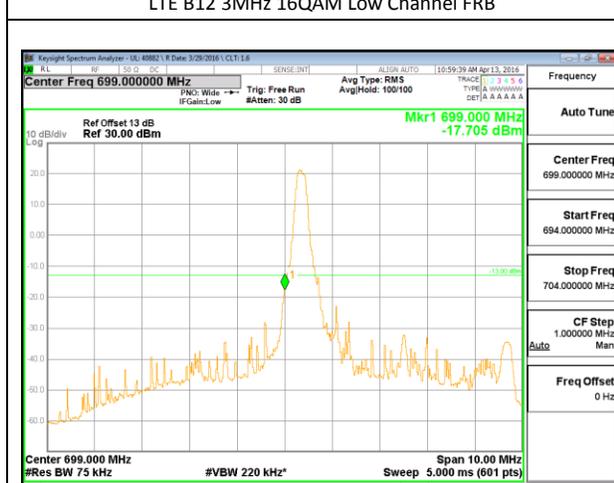
LTE B12 3MHz 16QAM High Channel 1RB



LTE B12 3MHz 16QAM Low Channel FRB



LTE B12 3MHz 16QAM High Channel FRB



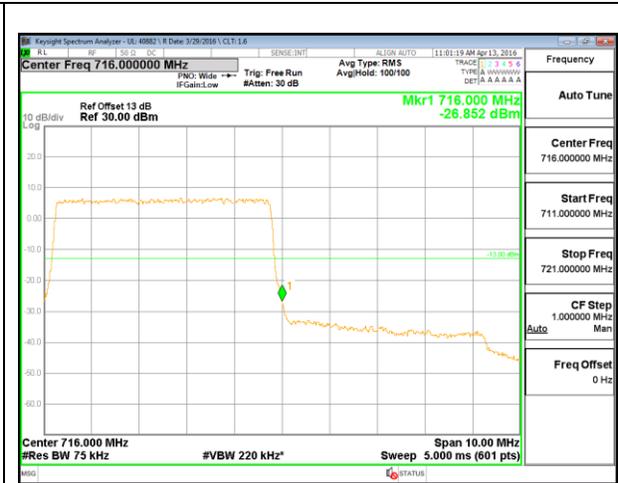
LTE B12 5MHz QPSK Low Channel 1RB



LTE B12 5MHz QPSK High Channel 1RB



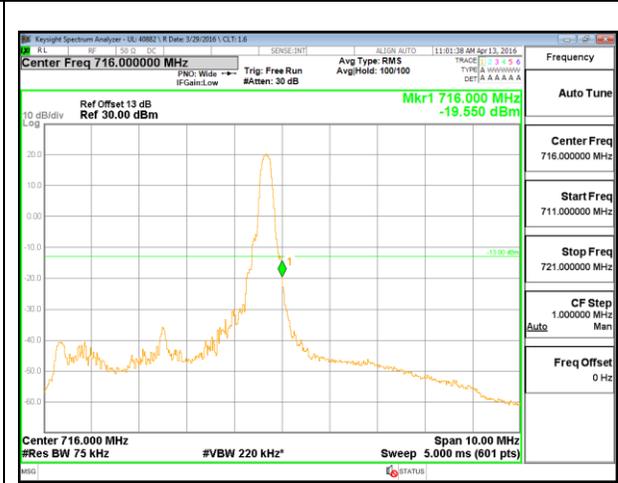
LTE B12 5MHz QPSK Low Channel FRB



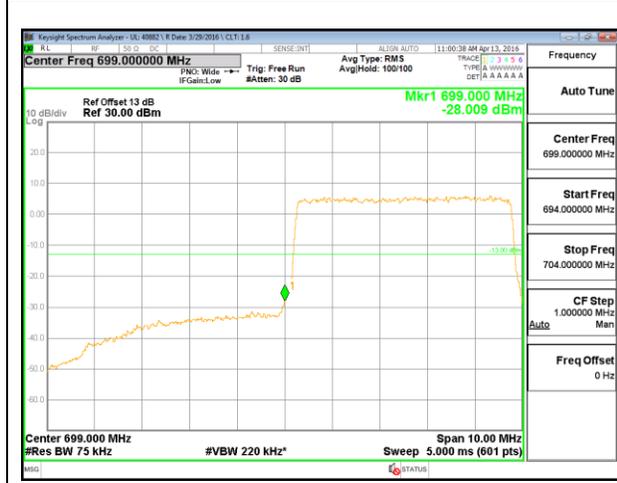
LTE B12 5MHz QPSK High Channel FRB



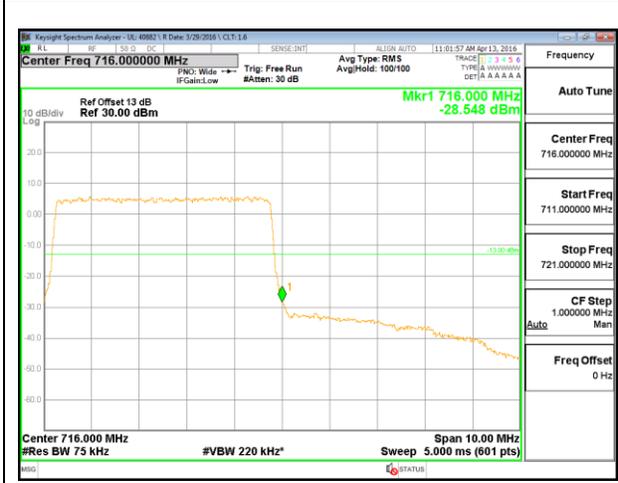
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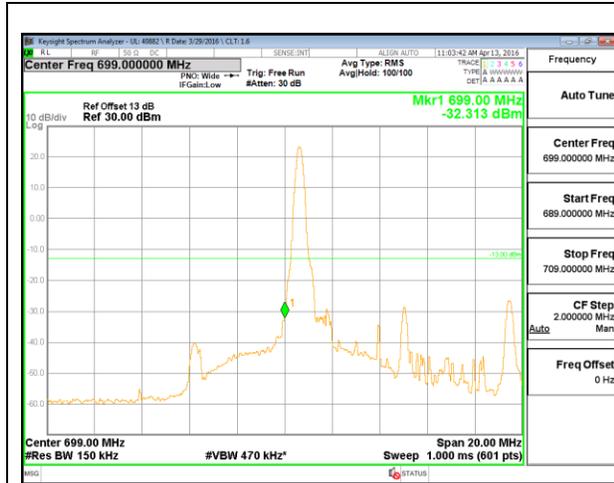
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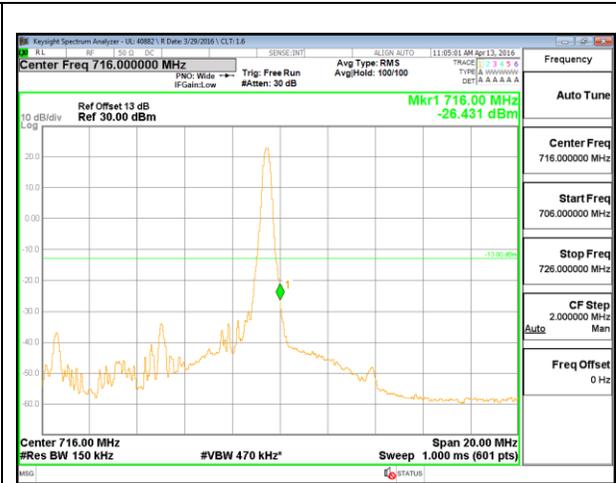
LTE B12 5MHz 16QAM Low Channel FRB



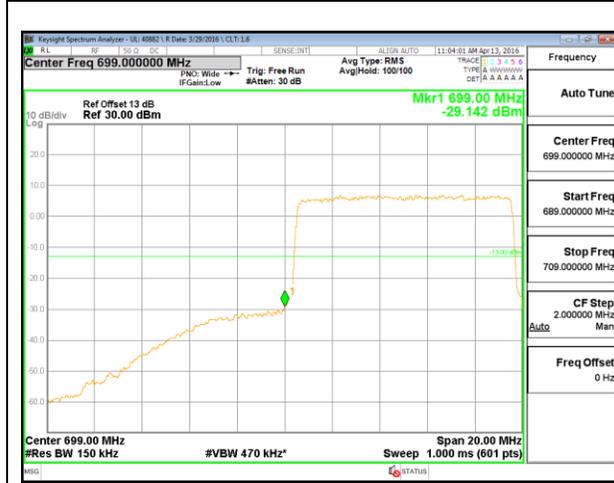
LTE B12 5MHz 16QAM High Channel FRB



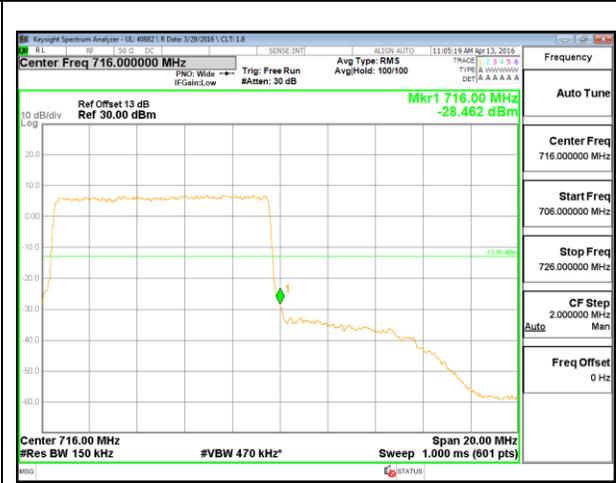
LTE B12 10MHz QPSK Low Channel 1RB



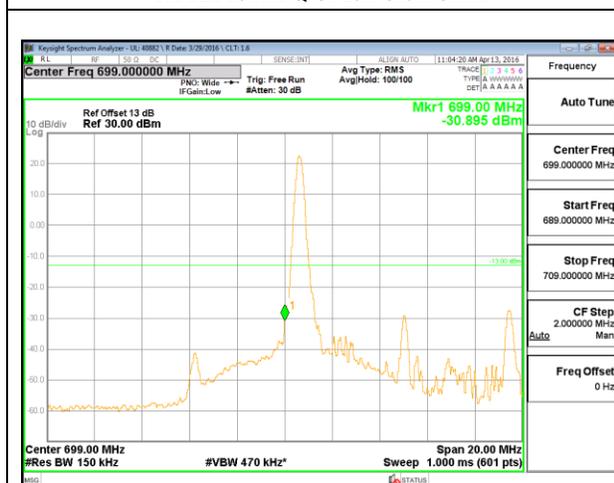
LTE B12 10MHz QPSK High Channel 1RB



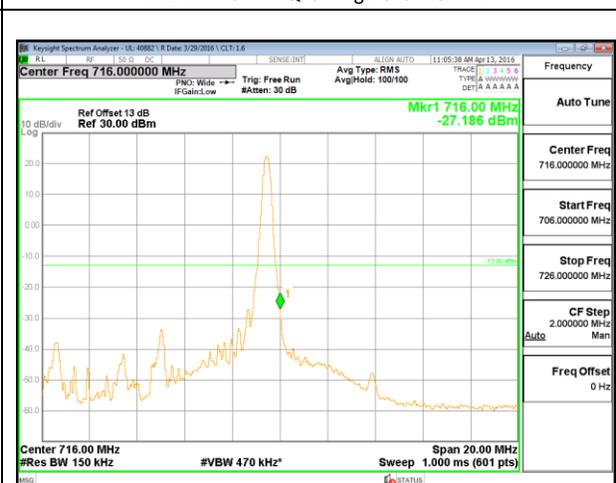
LTE B12 10MHz QPSK Low Channel FRB



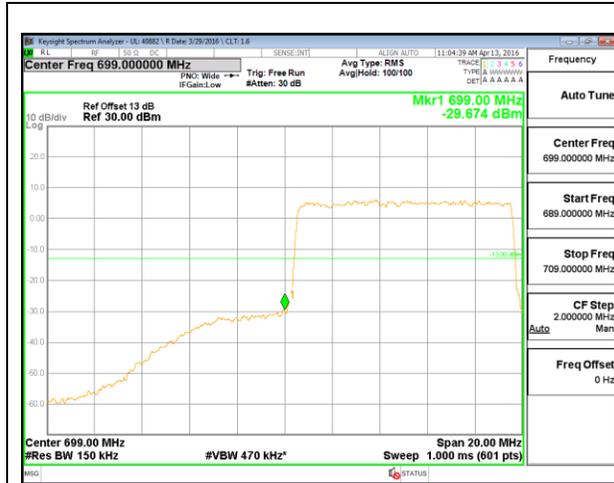
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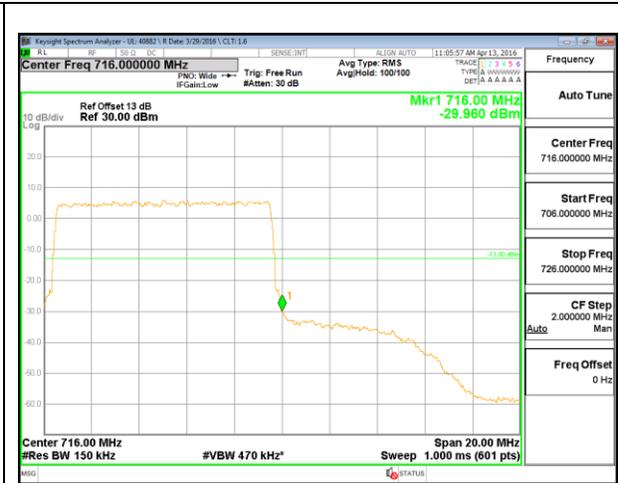
LTE B12 10MHz 16QAM Low Channel 1RB



LTE B12 10MHz 16QAM High Channel 1RB

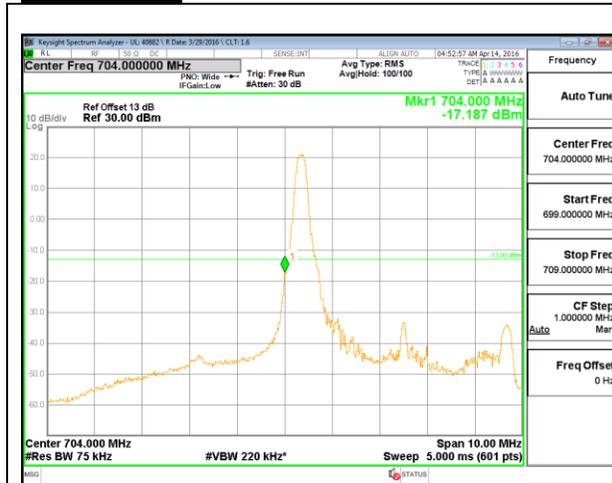


LTE B12 10MHz 16QAM Low Channel FRB

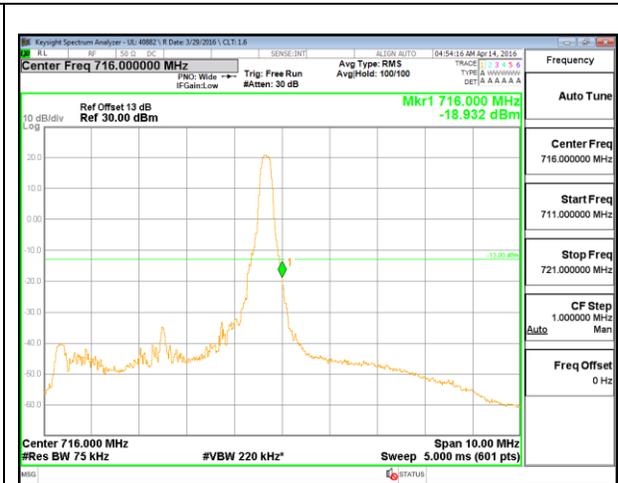


LTE B12 10MHz 16QAM High Channel FRB

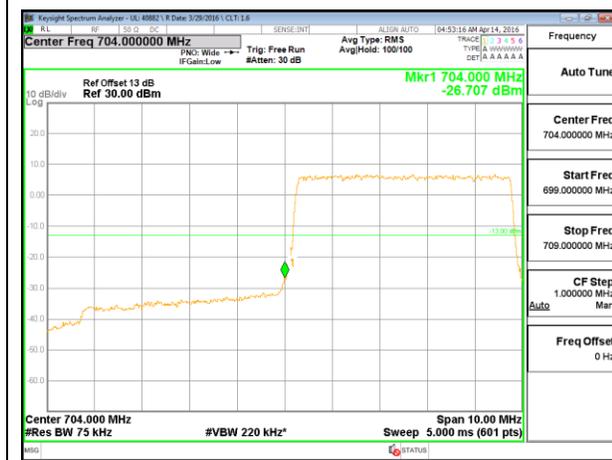
LTE Band 17



LTE B17 5MHz QPSK Low Channel 1RB



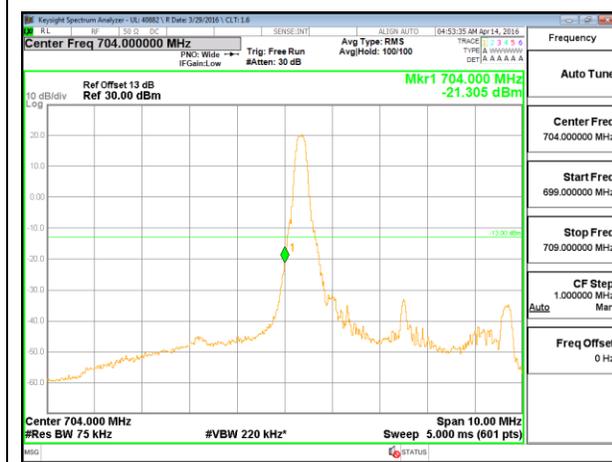
LTE B17 5MHz QPSK High Channel 1RB



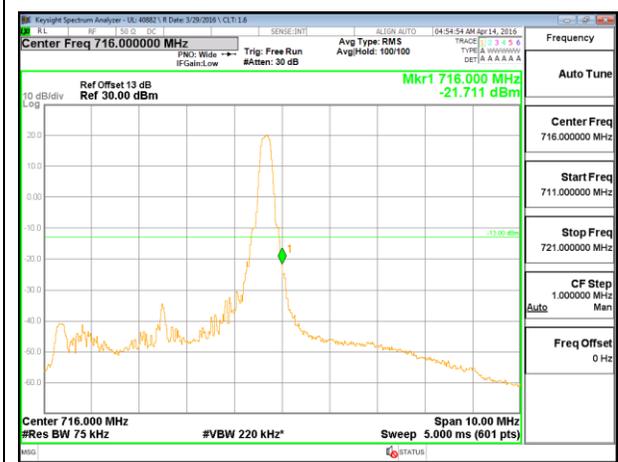
LTE B17 5MHz QPSK Low Channel FRB



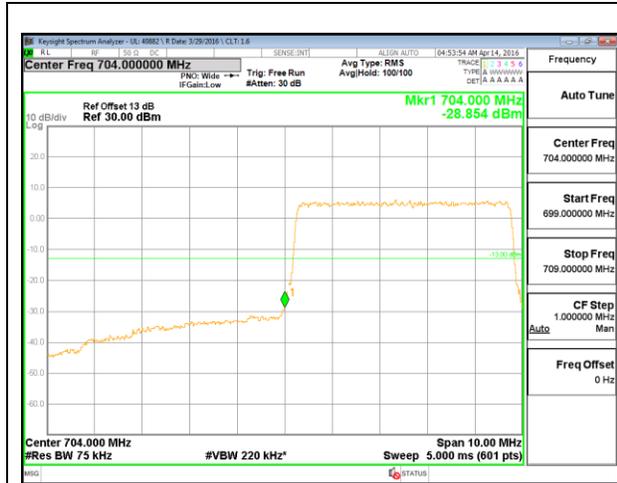
LTE B17 5MHz QPSK High Channel FRB



LTE B17 5MHz 16QAM Low Channel 1RB



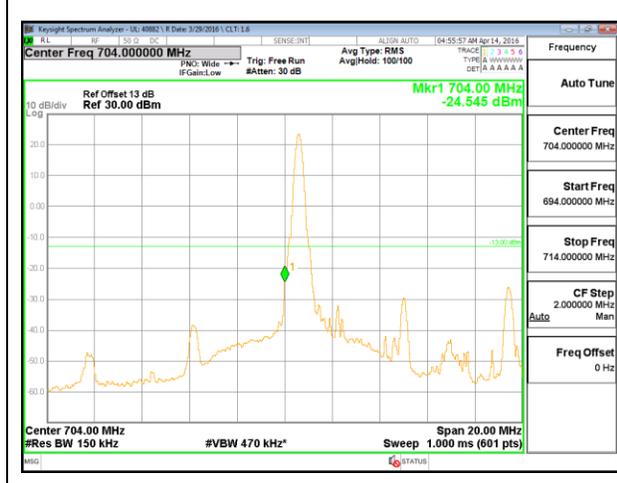
LTE B17 5MHz 16QAM High Channel 1RB



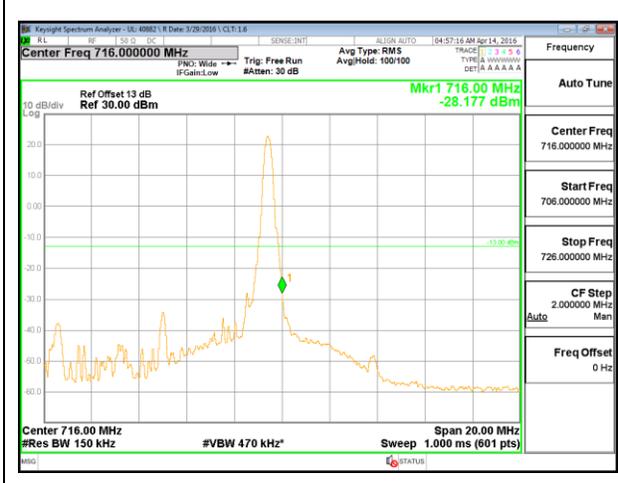
LTE B17 5MHz 16QAM Low Channel FRB



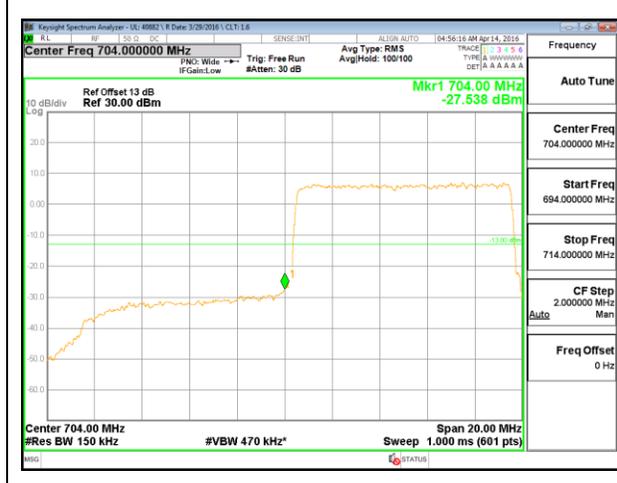
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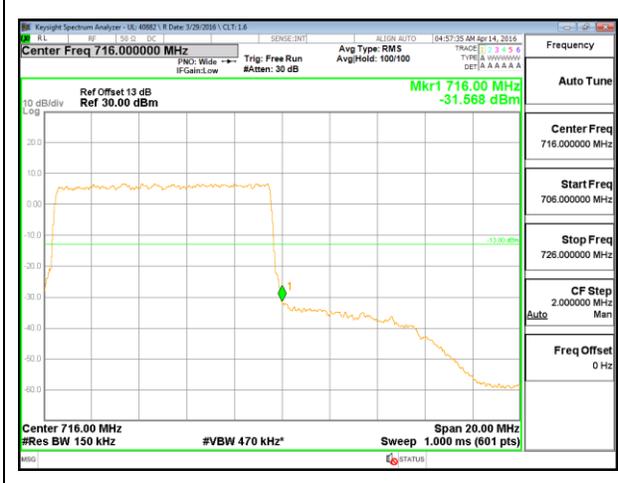
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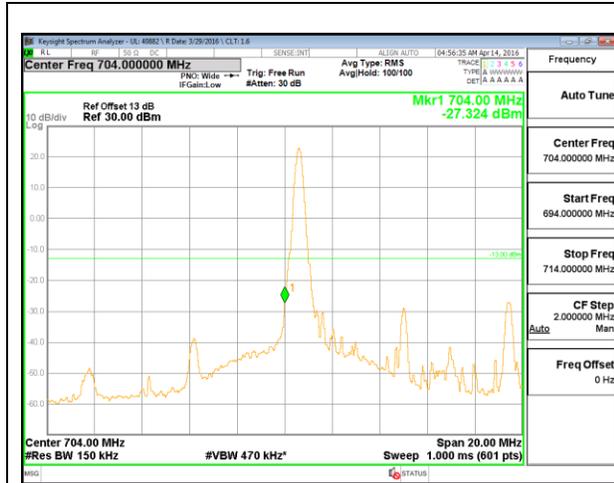
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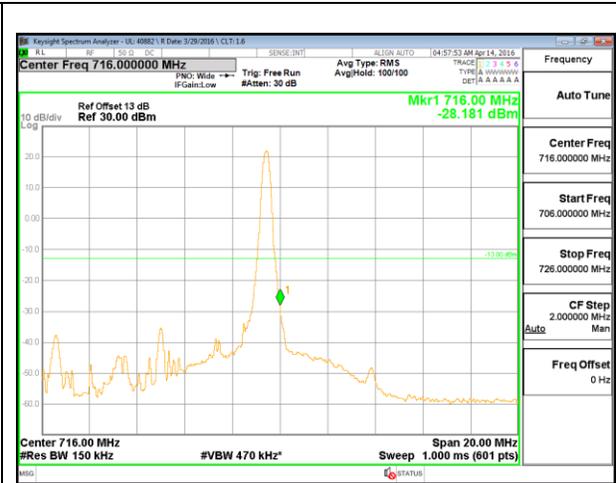
LTE B17 10MHz QPSK Low Channel FRB



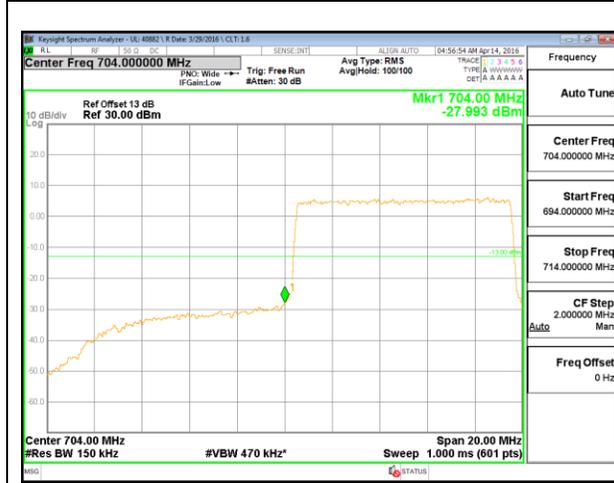
LTE B17 10MHz QPSK High Channel FRB



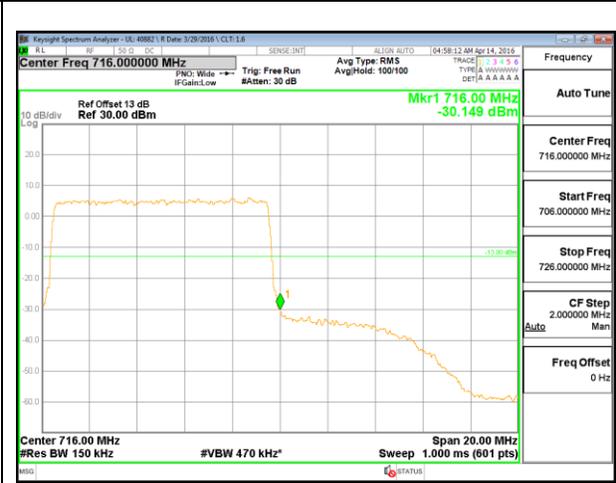
LTE B17 10MHz 16QAM Low Channel 1RB



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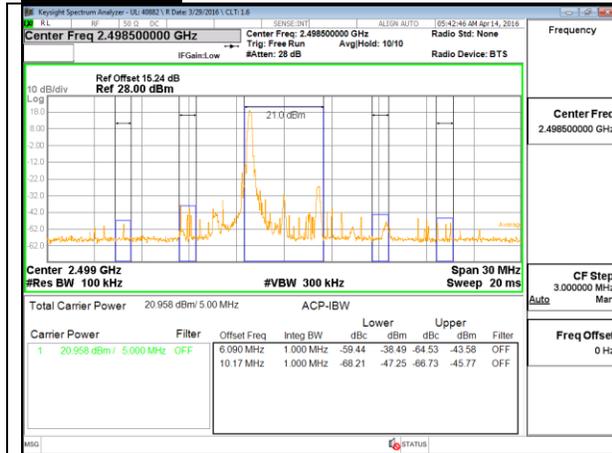


LTE B17 10MHz 16QAM Low Channel FRB

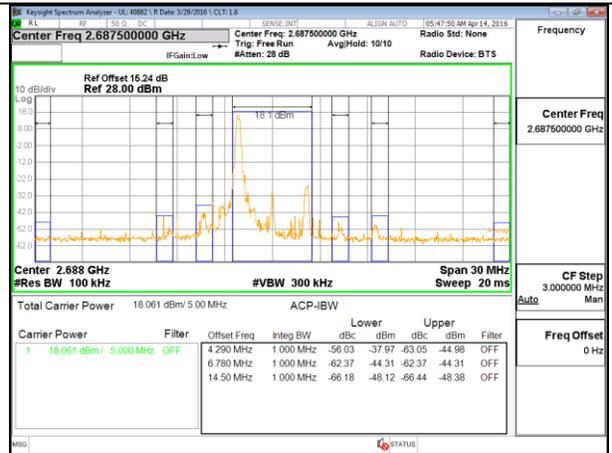


LTE B17 10MHz 16QAM High Channel FRB

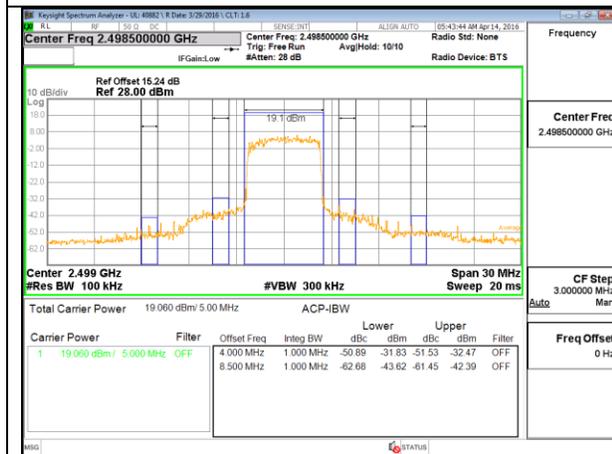
## 11.2. EMISSION MASK PLOTS LTE Band 41



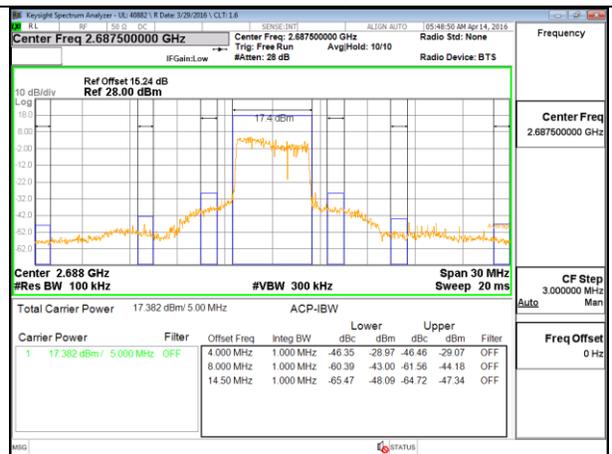
LTE B41 5MHz QPSK Low Channel 1RB



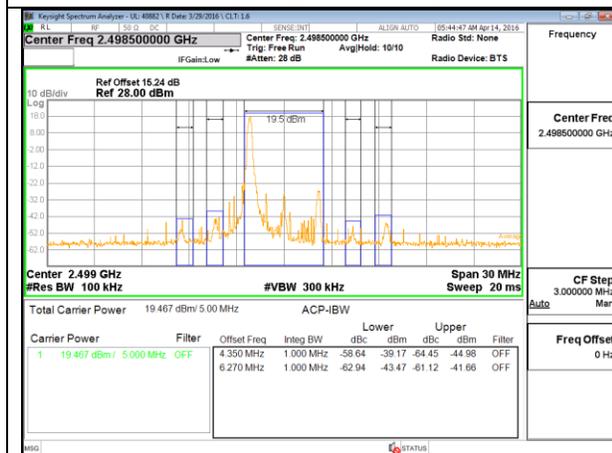
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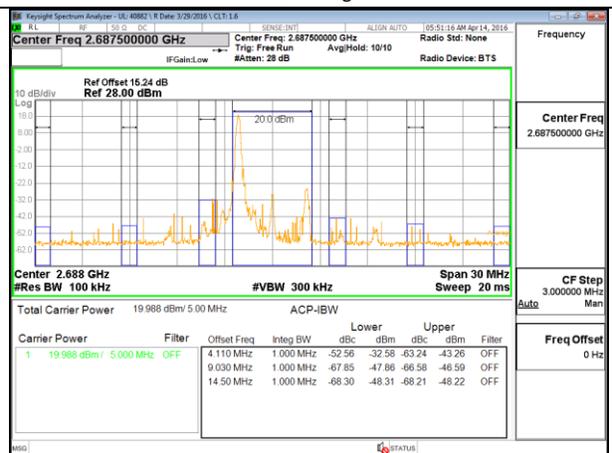
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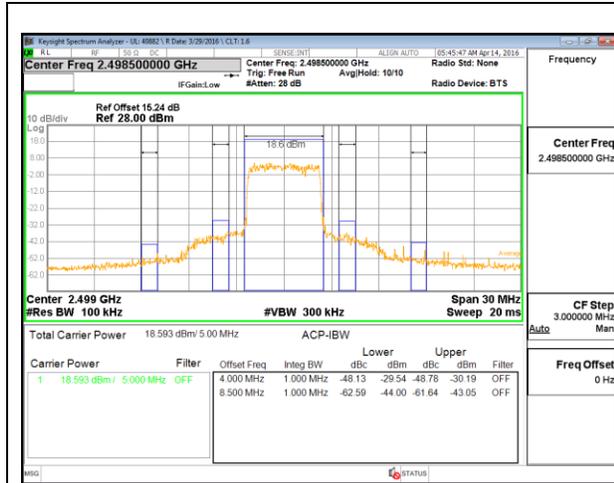
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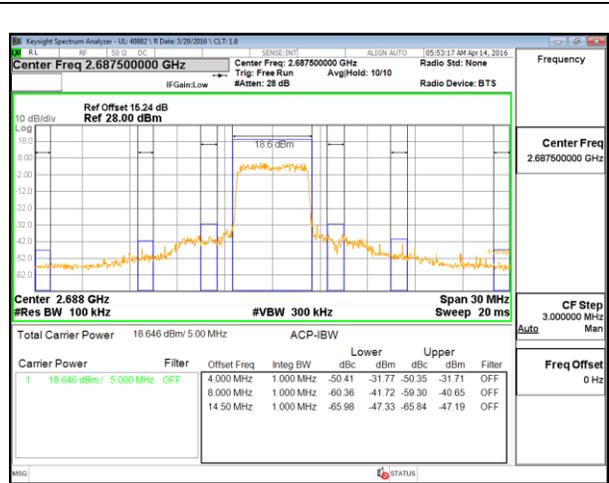
LTE B41 5MHz 16QAM Low Channel 1RB



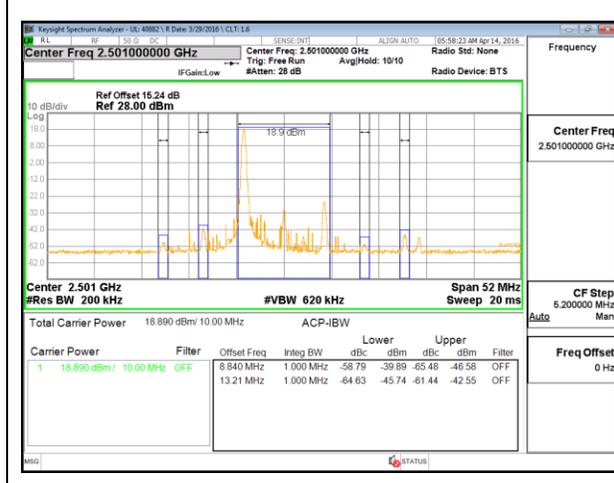
LTE B41 5MHz 16QAM High Channel 1RB



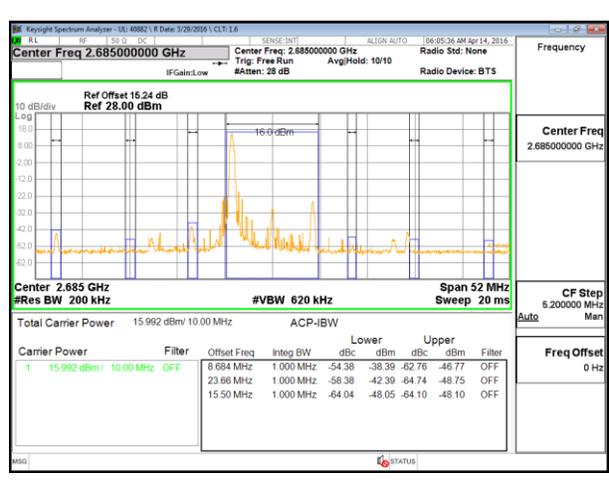
LTE B41 5MHz 16QAM Low Channel FRB



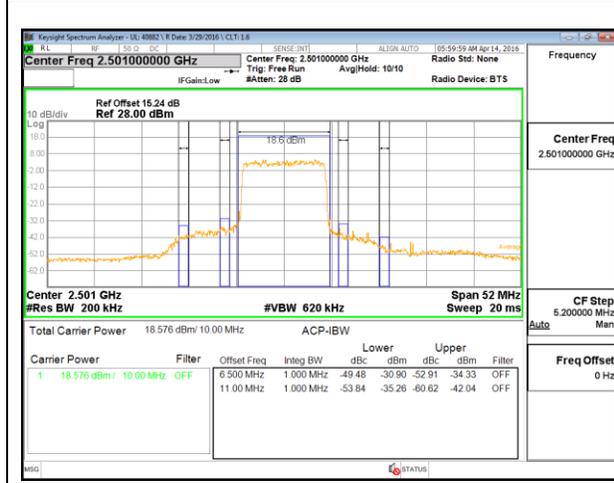
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LTE B41 10MHz QPSK Low Channel 1RB



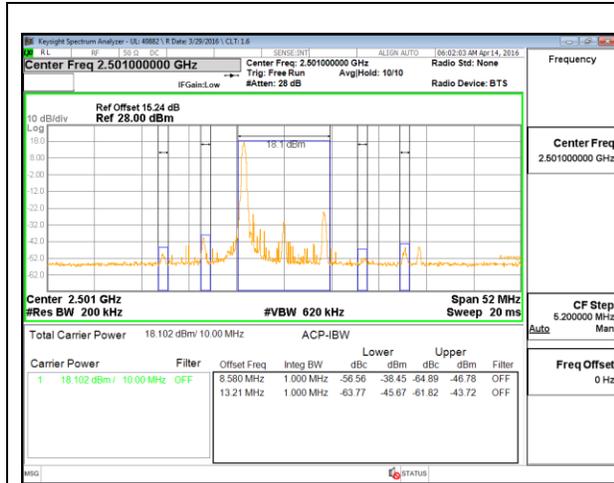
LTE B41 10MHz QPSK High Channel 1RB



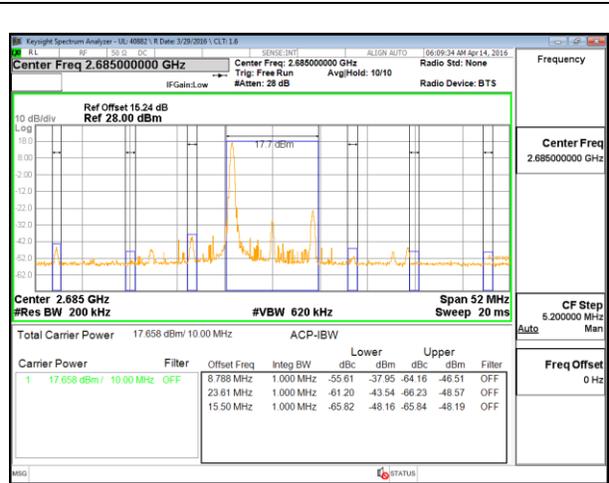
LTE B41 10MHz QPSK Low Channel FRB



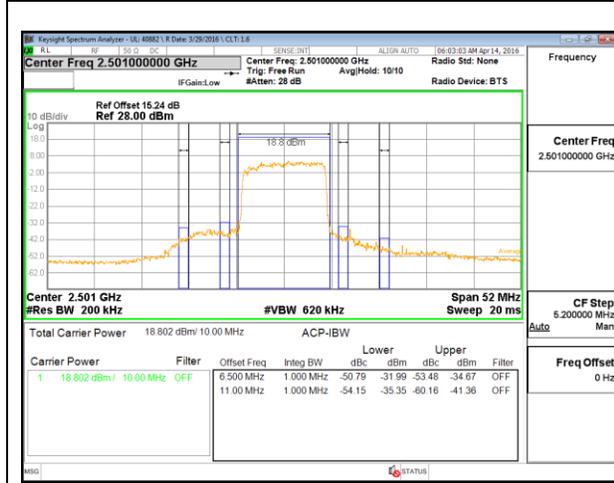
LTE B41 10MHz QPSK High Channel FRB



LTE B41 10MHz 16QAM Low Channel 1RB



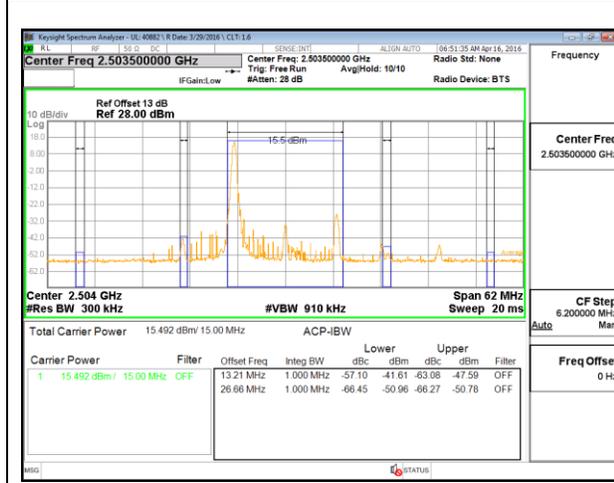
LTE B41 10MHz 16QAM High Channel 1RB



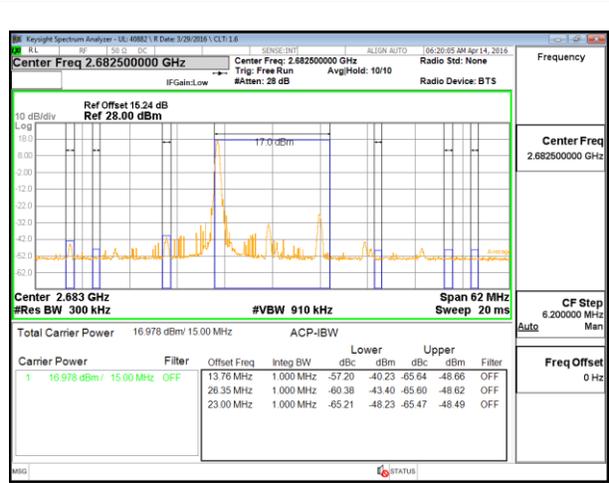
LTE B41 10MHz 16QAM Low Channel FRB



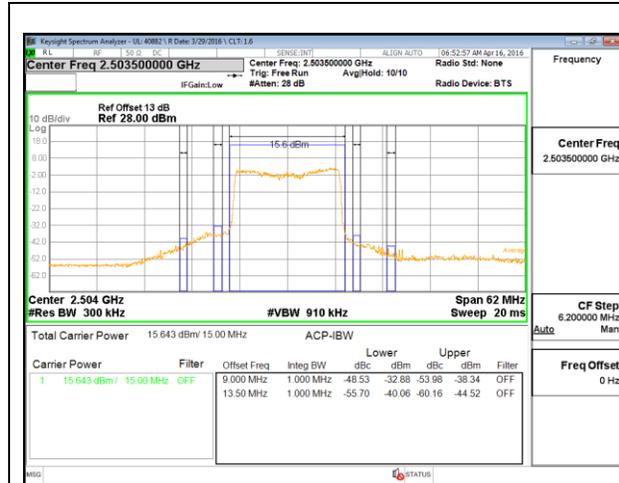
LTE B41 10MHz 16QAM High Channel FRB



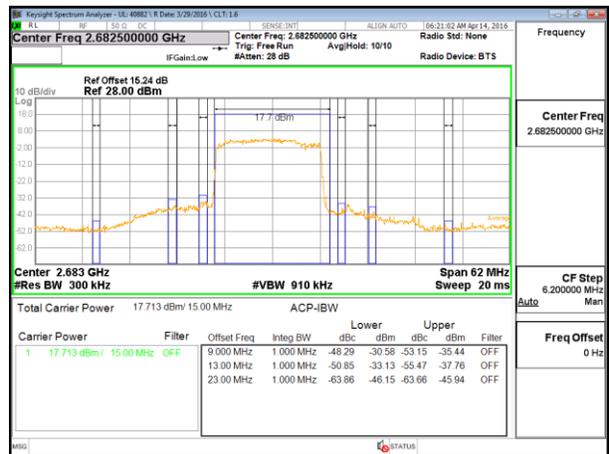
LTE B41 15MHz QPSK Low Channel 1RB



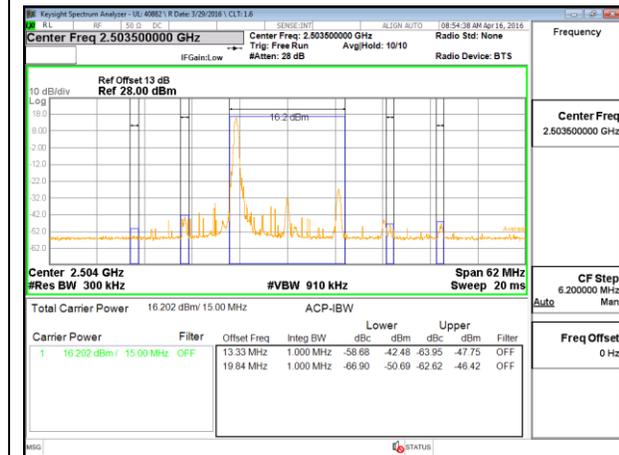
LTE B41 15MHz QPSK High Channel 1RB



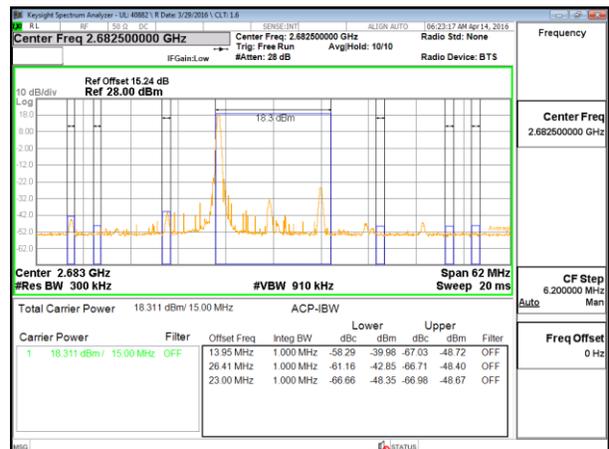
LTE B41 15MHz QPSK Low Channel FRB



LTE B41 15MHz QPSK High Channel FRB



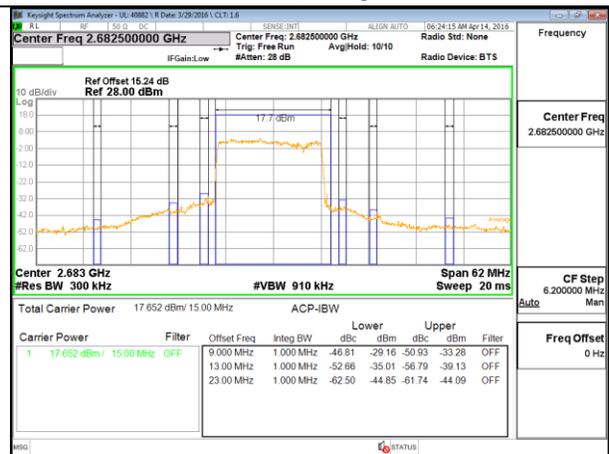
LTE B41 15MHz 16QAM Low Channel 1RB



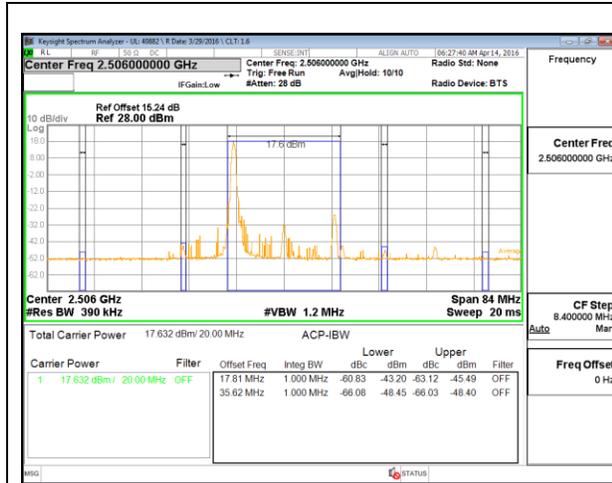
LTE B41 15MHz 16QAM High Channel 1RB



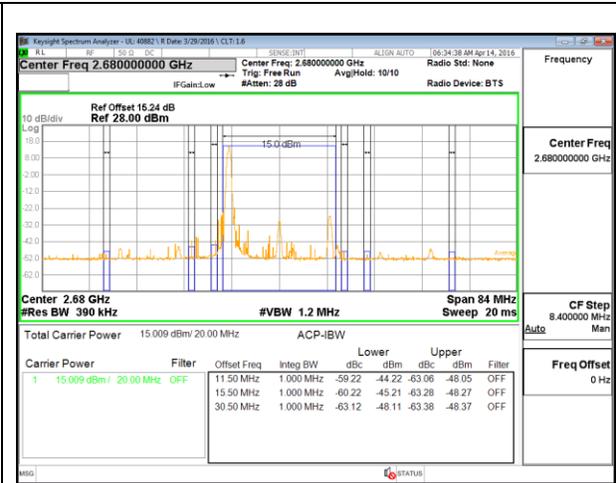
LTE B41 15MHz 16QAM Low Channel FRB



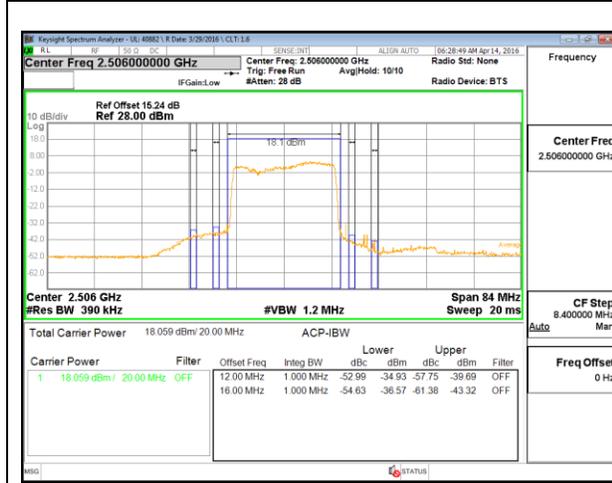
LTE B41 15MHz 16QAM High Channel FRB



LTE B41 20MHz QPSK Low Channel 1RB



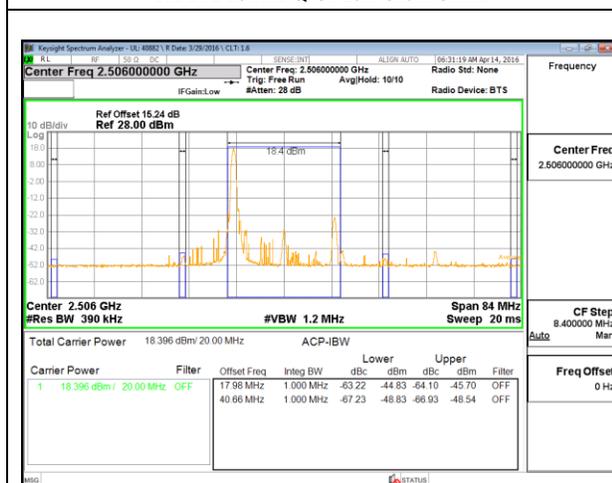
LTE B41 20MHz QPSK High Channel 1RB



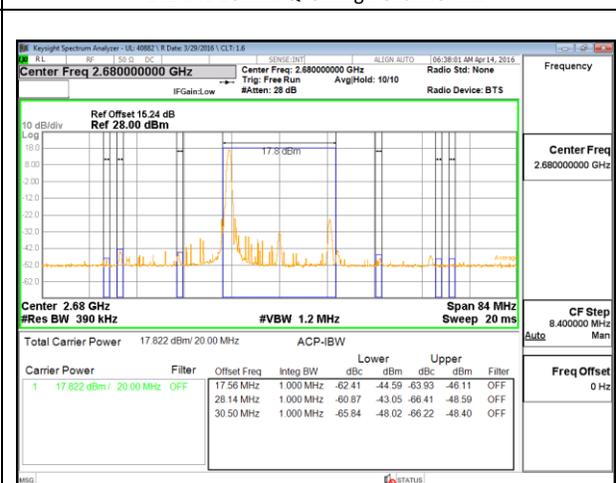
LTE B41 20MHz QPSK Low Channel FRB



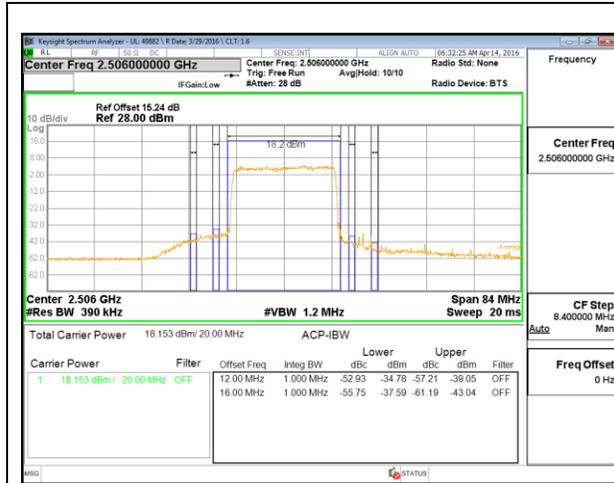
LTE B41 20MHz QPSK High Channel FRB



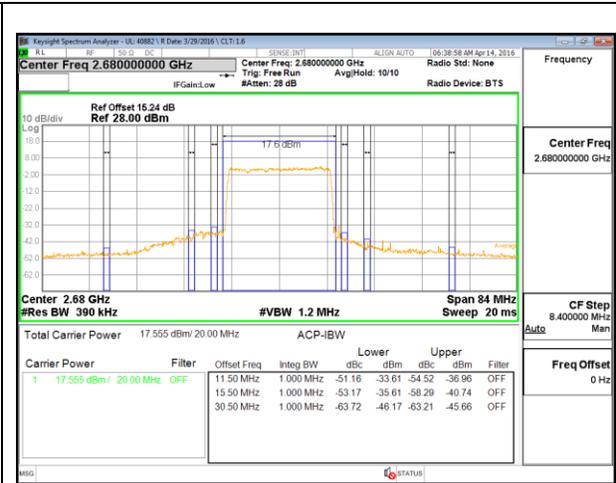
LTE B41 20MHz 16QAM Low Channel 1RB



LTE B41 20MHz 16QAM High Channel 1RB



LTE B41 20MHz 16QAM Low Channel FRB



LTE B41 20MHz 16QAM High Channel FRB

## 12. OUT OF BAND EMISSIONS

### RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §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

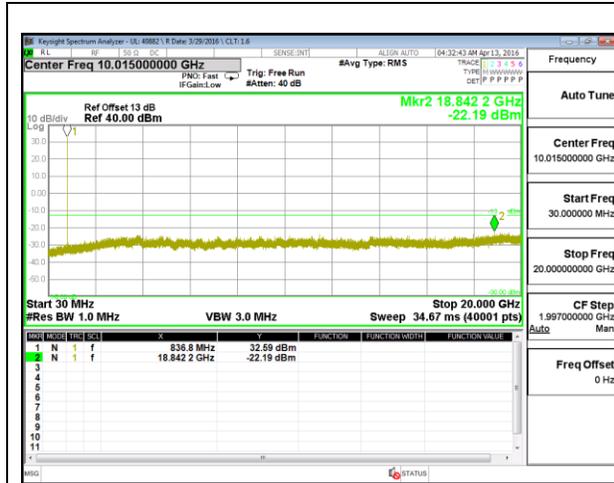
Per KDB 971168 D01 Power Meas License Digital Systems v02r02

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

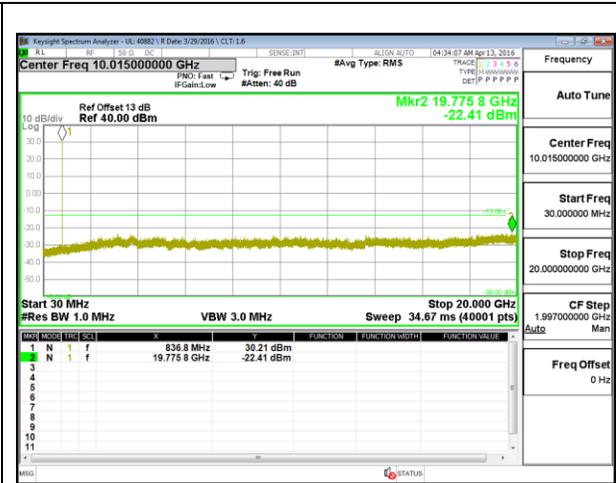
## 12.1. OUT OF BAND EMISSIONS RESULT AND PLOTS

### GSM

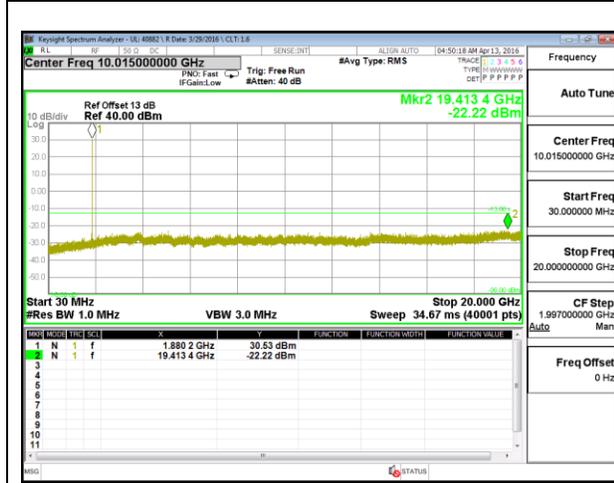
Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
GSM850	GPRS	824.2	-22.40	-13	-9.4
GSM850	GPRS	836.6	-22.19	-13	-9.19
GSM850	GPRS	848.8	-23.10	-13	-10.1
GSM850	EGPRS	824.2	-22.56	-13	-9.56
GSM850	EGPRS	836.6	-22.41	-13	-9.41
GSM850	EGPRS	848.8	-22.74	-13	-9.74
GSM1900	GPRS	1850.2	-22.04	-13	-9.04
GSM1900	GPRS	1880	-22.22	-13	-9.22
GSM1900	GPRS	1909.8	-22.13	-13	-9.13
GSM1900	EGPRS	1850.2	-22.09	-13	-9.09
GSM1900	EGPRS	1880	-22.95	-13	-9.95
GSM1900	EGPRS	1909.8	-21.96	-13	-8.96



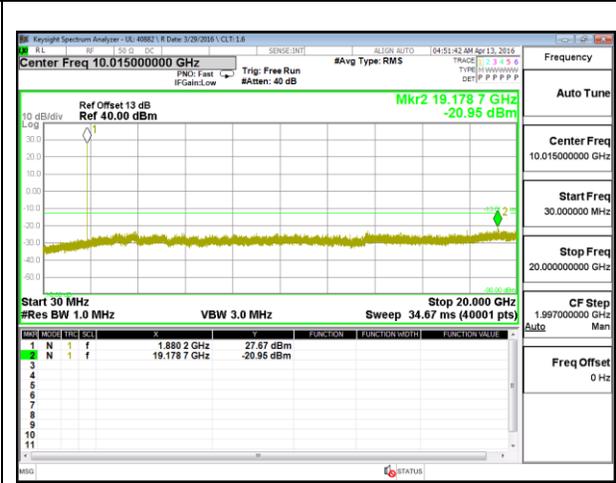
GSM850 GPRS Middle Channel



GSM850 EGPRS Middle Channel



GSM1900 GPRS Middle Channel



GSM1900 EGPRS Middle Channel

**WCDMA**

Band	Mode	f (MHz)	Spur (dBm)	99% BW (MHz)	Delta (dB)
Band 2	REL99	1852.4	-32.835	-13	-19.835
Band 2	REL99	1880	-31.871	-13	-18.871
Band 2	REL99	1907.6	-31.595	-13	-18.595
Band 2	HSDPA	1852.4	-31.981	-13	-18.981
Band 2	HSDPA	1880	-32.391	-13	-19.391
Band 2	HSDPA	1907.6	-31.728	-13	-18.728
Band 4	REL99	1712.4	-31.823	-13	-18.823
Band 4	REL99	1732.6	-32.449	-13	-19.449
Band 4	REL99	1752.6	-32.277	-13	-19.277
Band 4	HSDPA	1712.4	-32.165	-13	-19.165
Band 4	HSDPA	1732.6	-31.847	-13	-18.847
Band 4	HSDPA	1752.6	-32.122	-13	-19.122