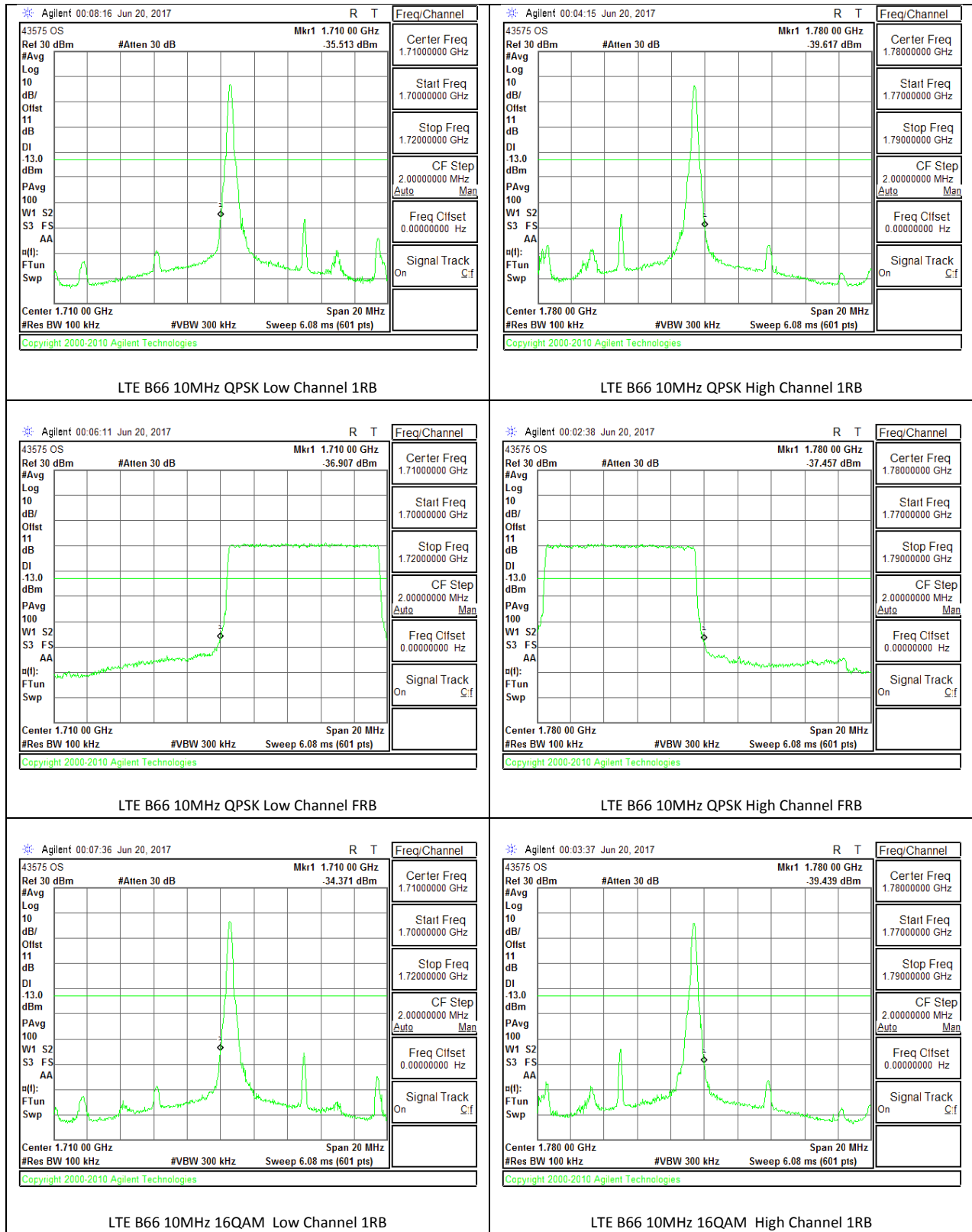
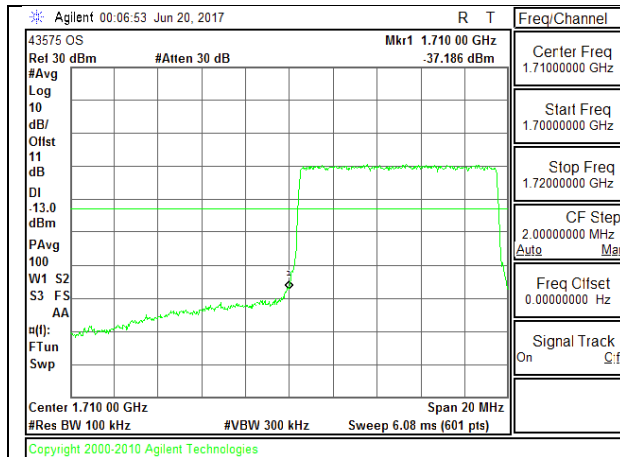
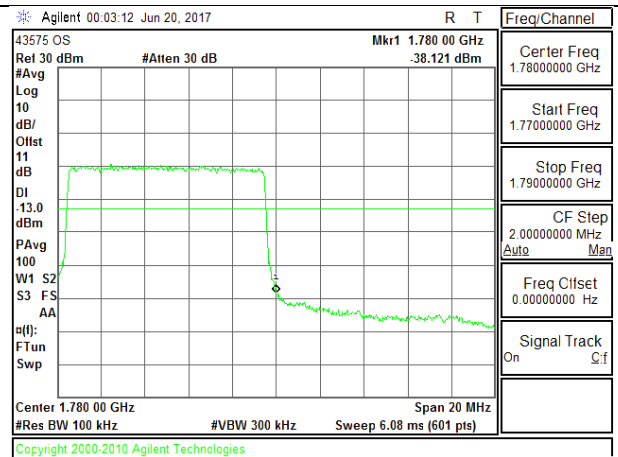


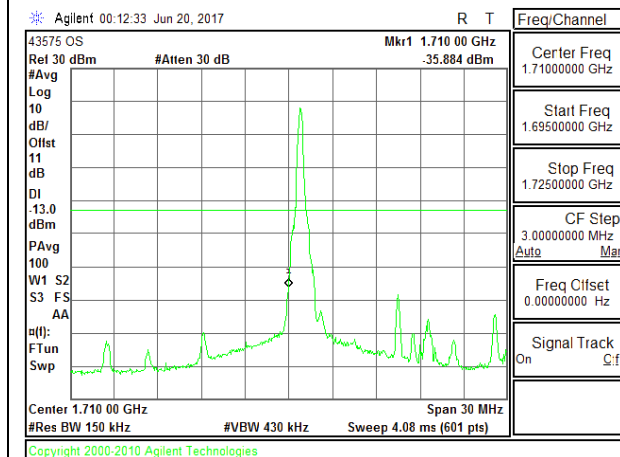




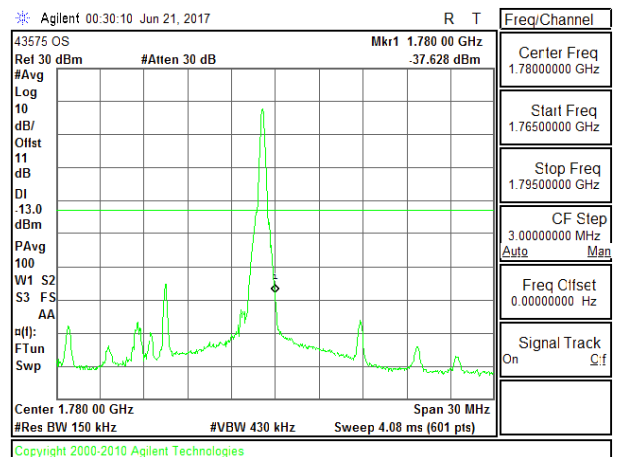
LTE B66 10MHz 16QAM Low Channel FRB



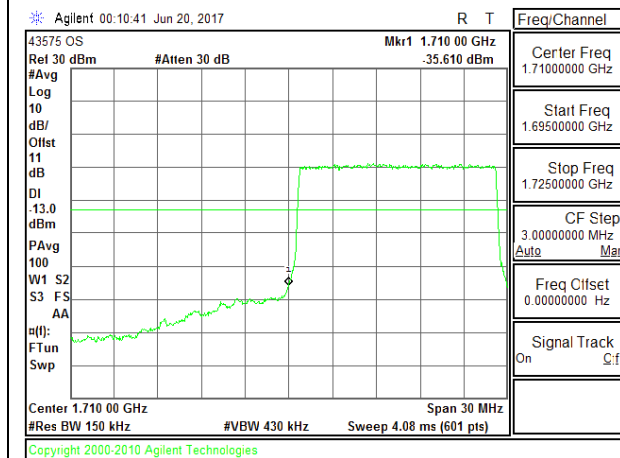
LTE B66 10MHz 16QAM High Channel FRB



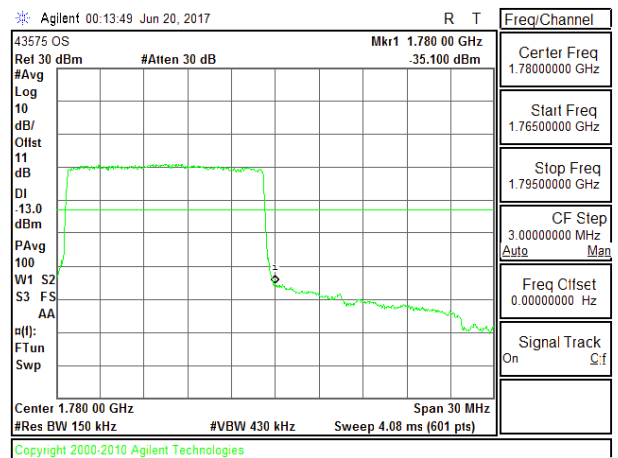
LTE B66 15MHz QPSK Low Channel 1RB



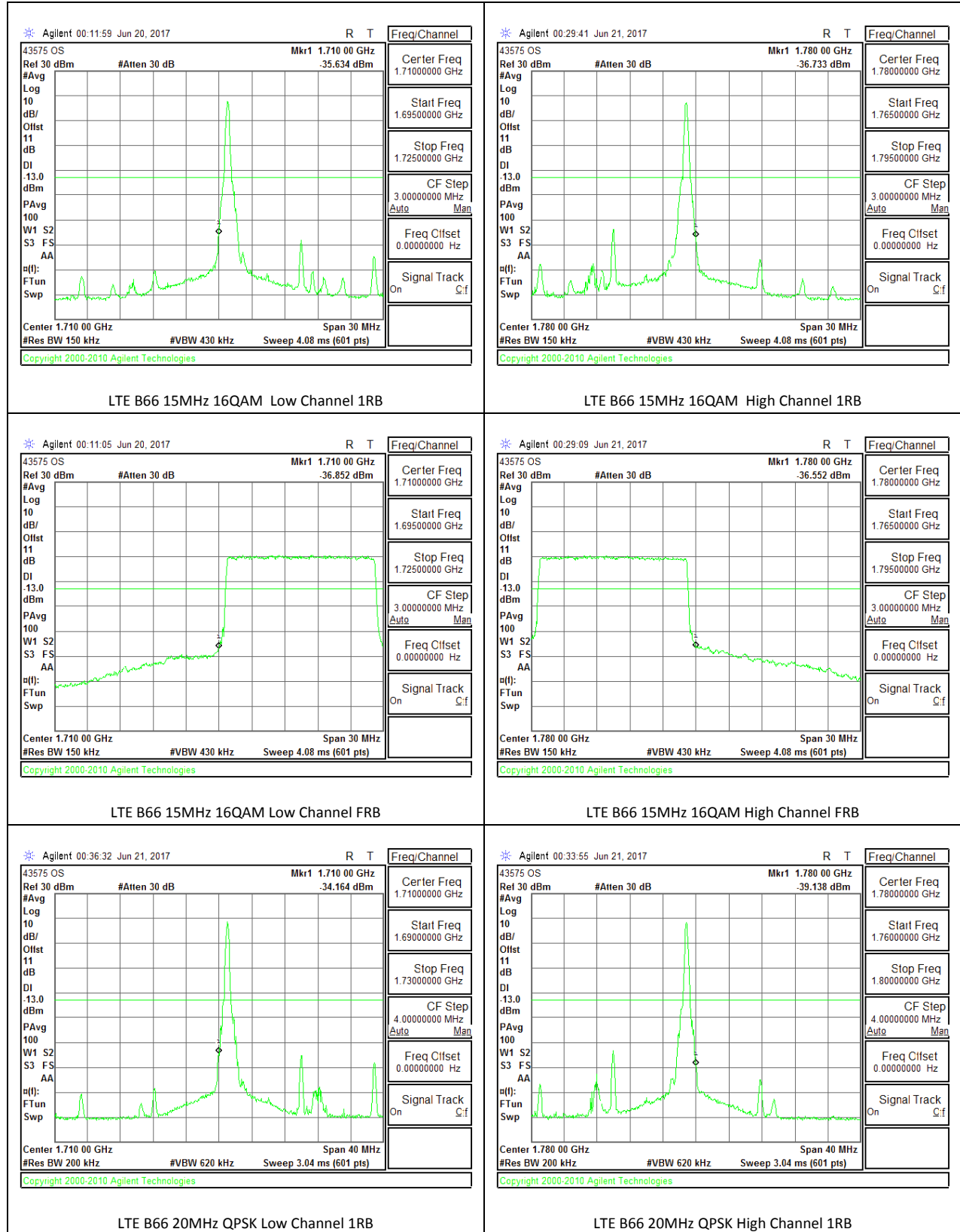
LTE B66 15MHz QPSK High Channel 1RB

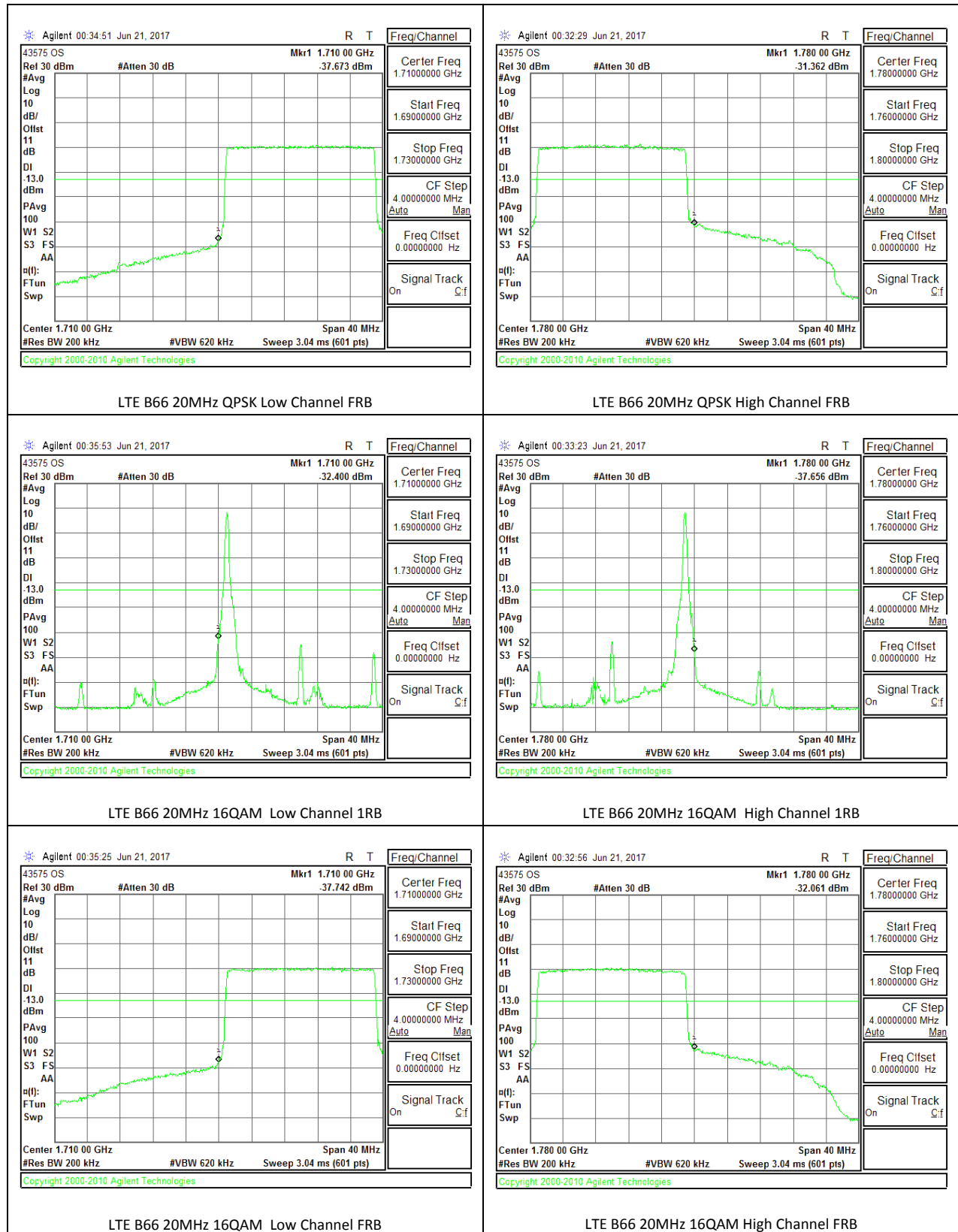


LTE B66 15MHz QPSK Low Channel FRB

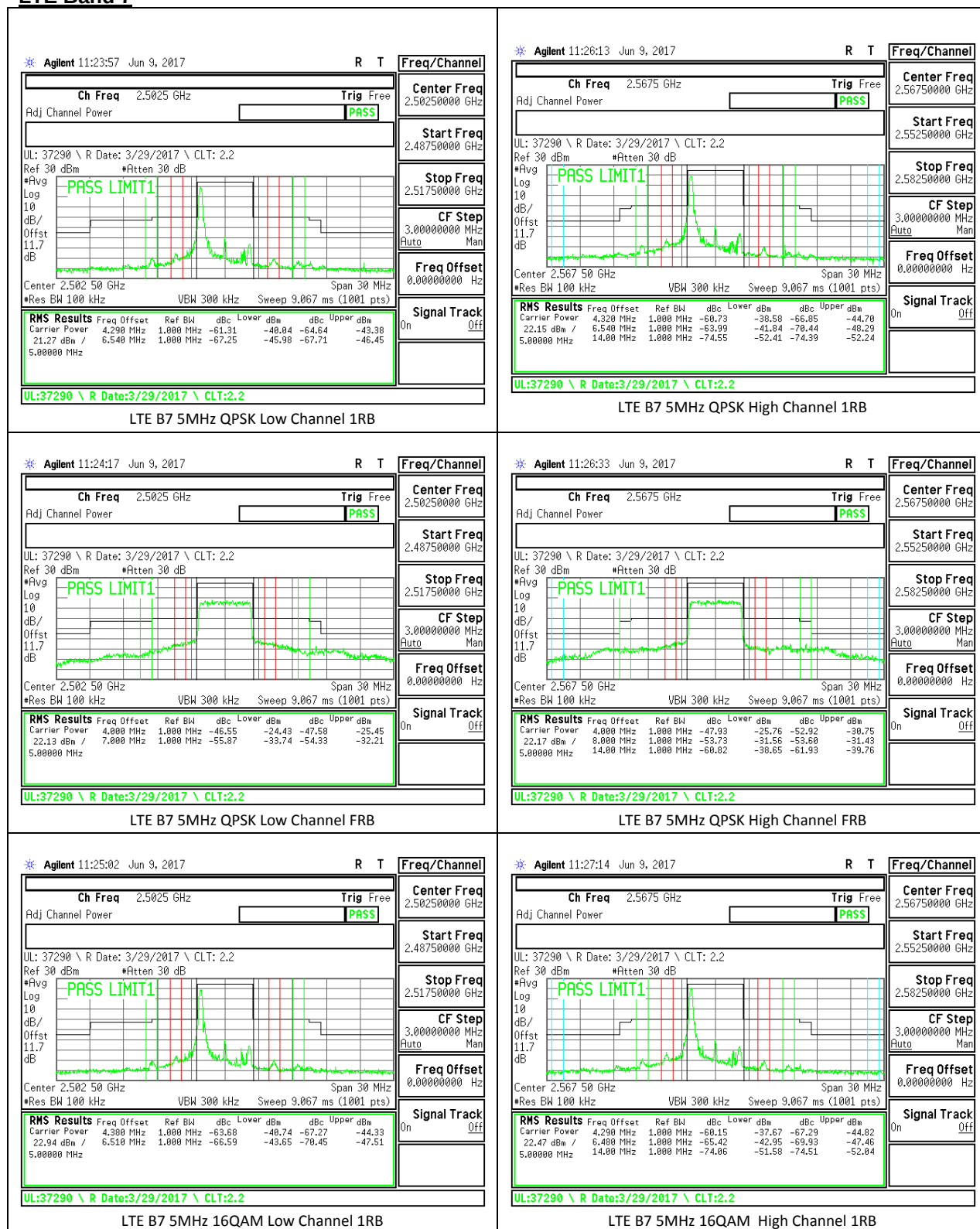


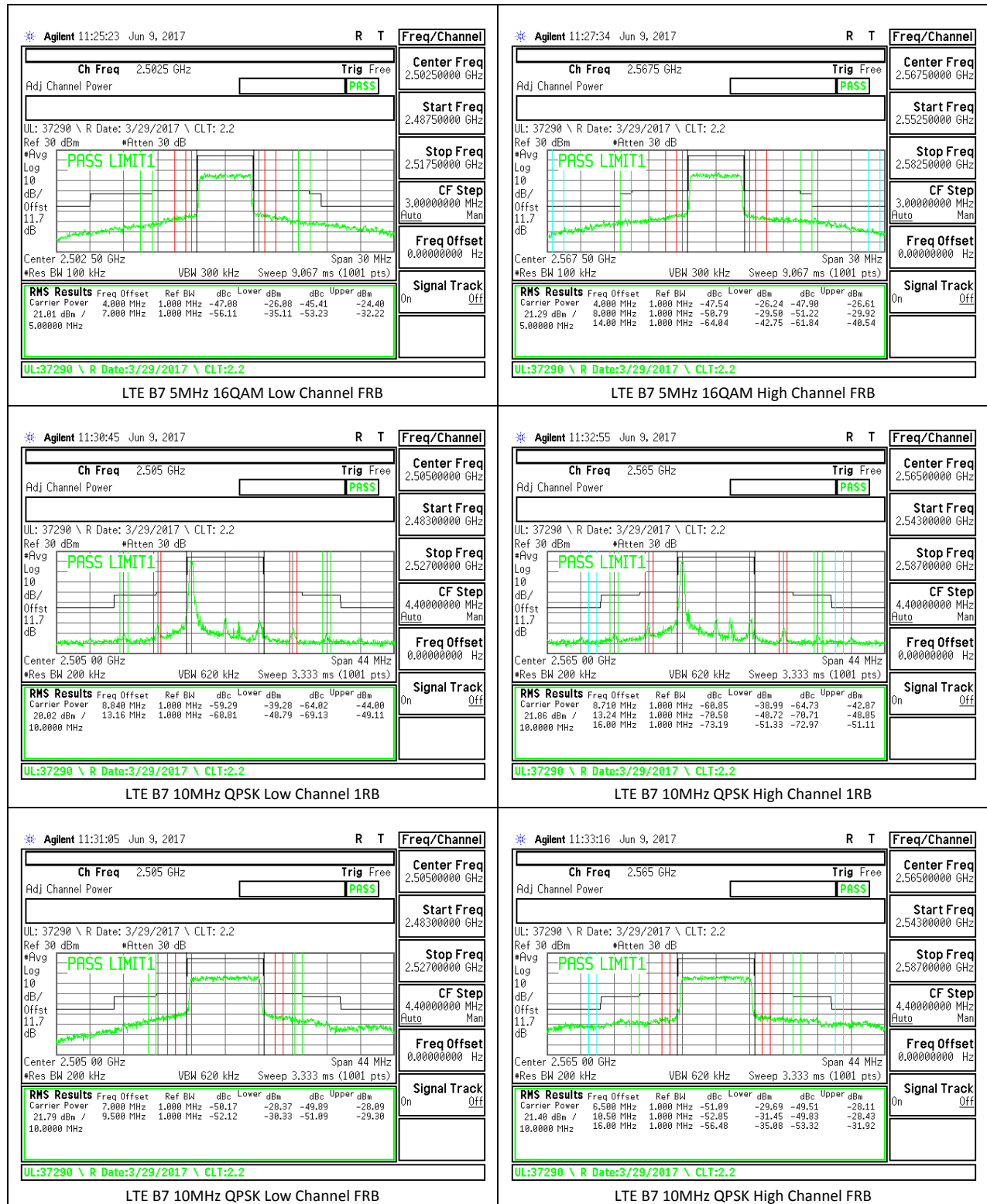
LTE B66 15MHz QPSK High Channel FRB

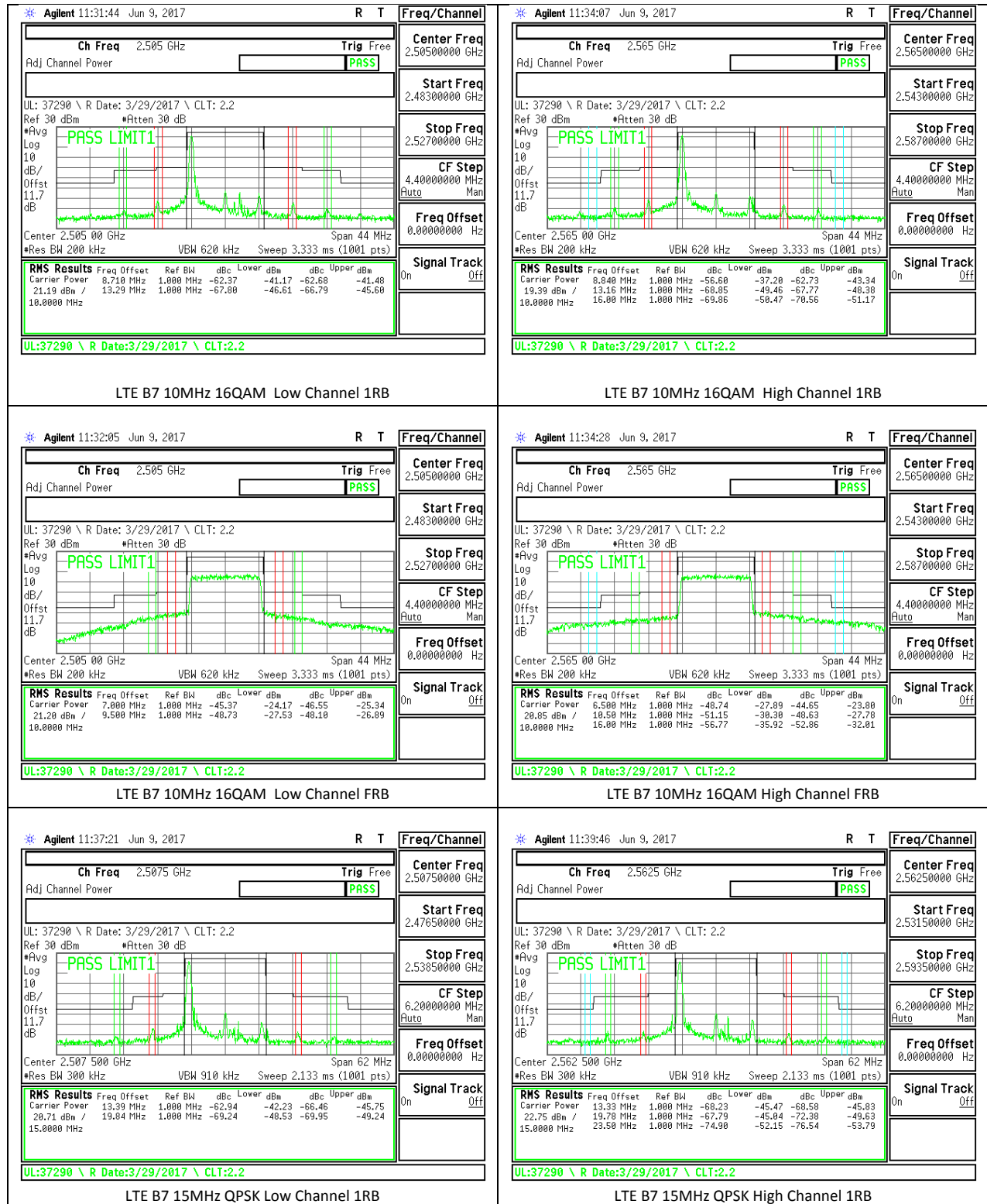


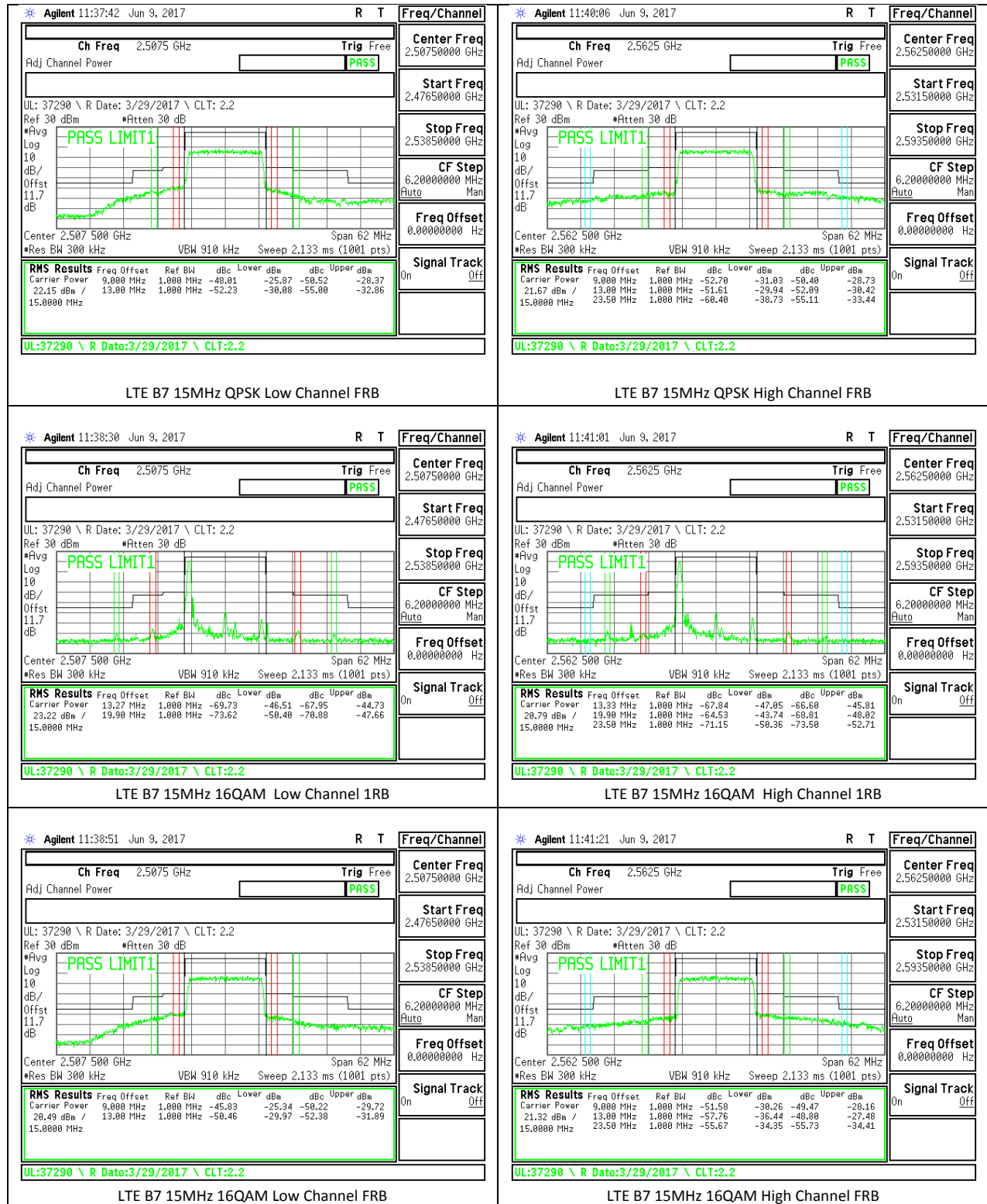


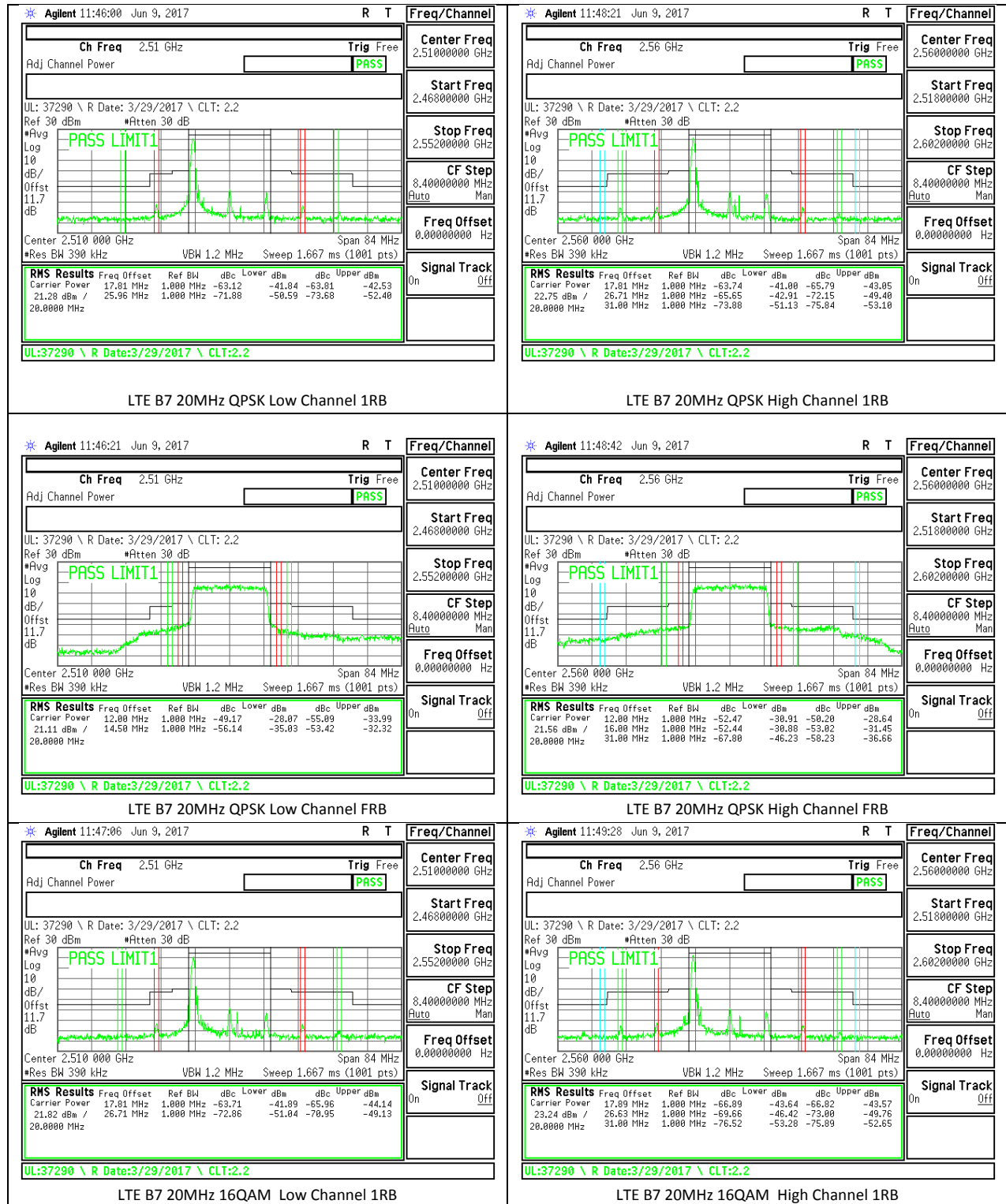
14.2. EMISSION MASK PLOTS LTE Band 7

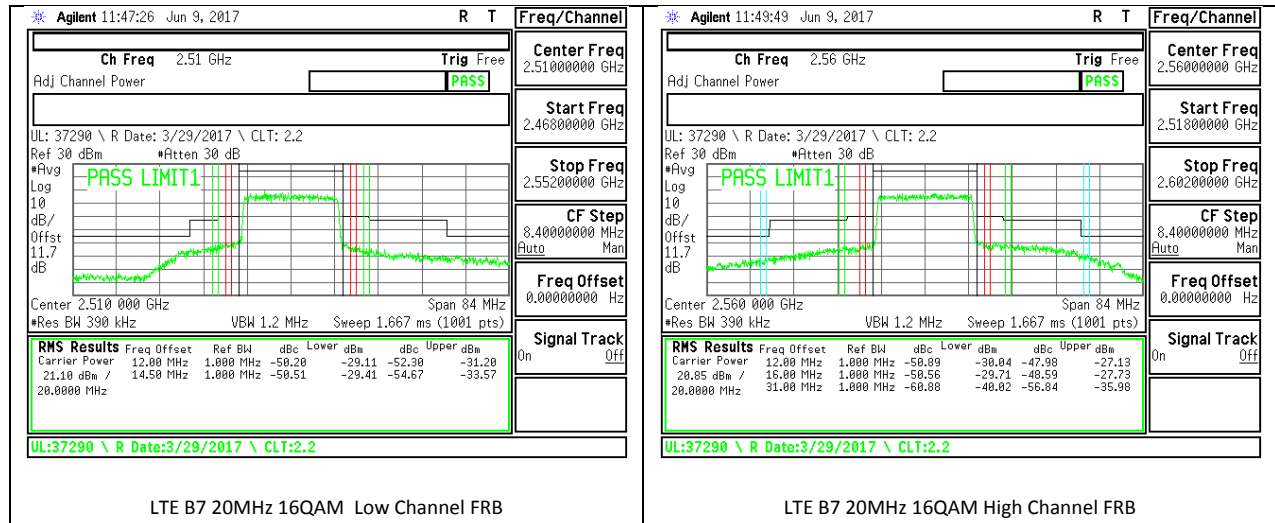




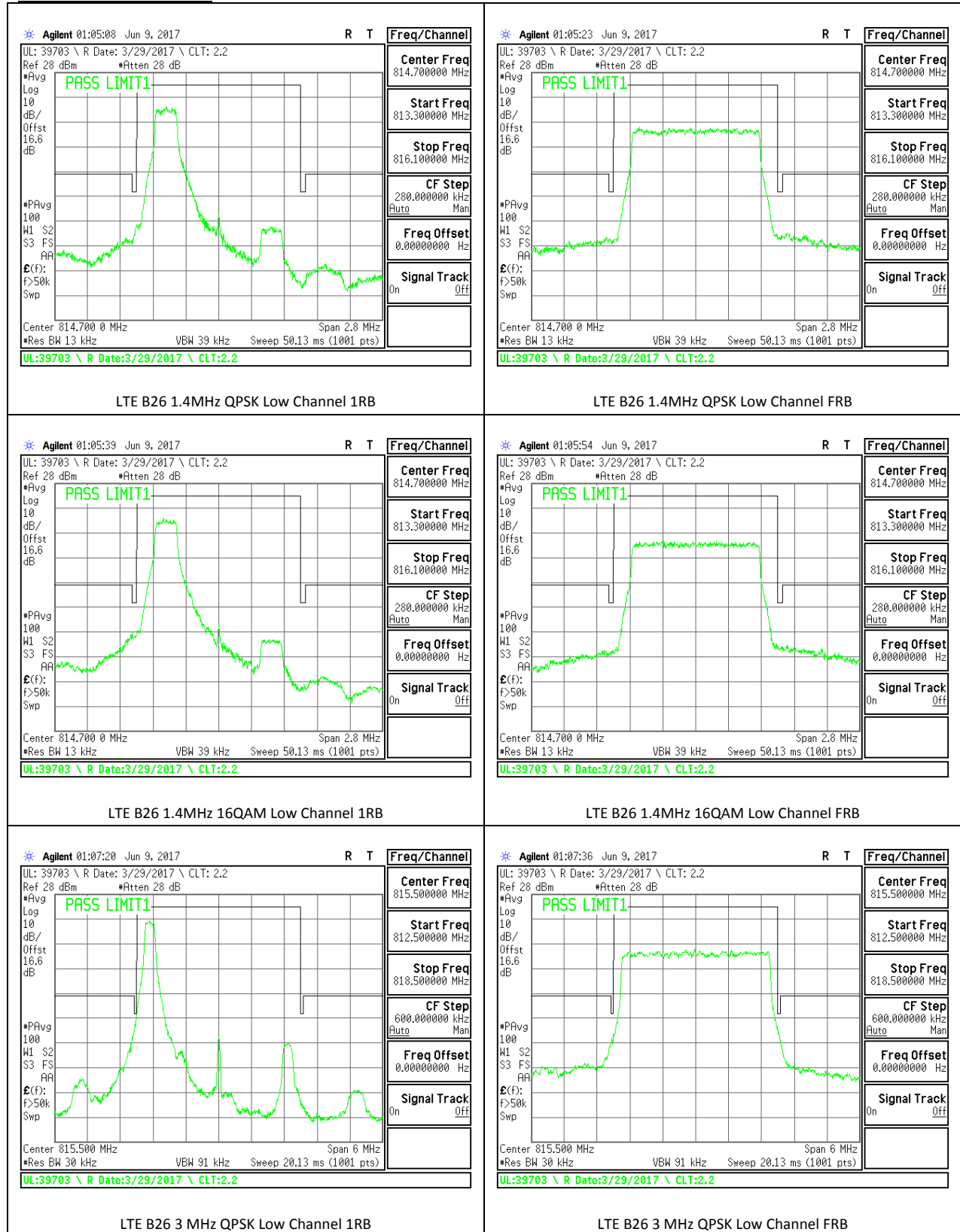


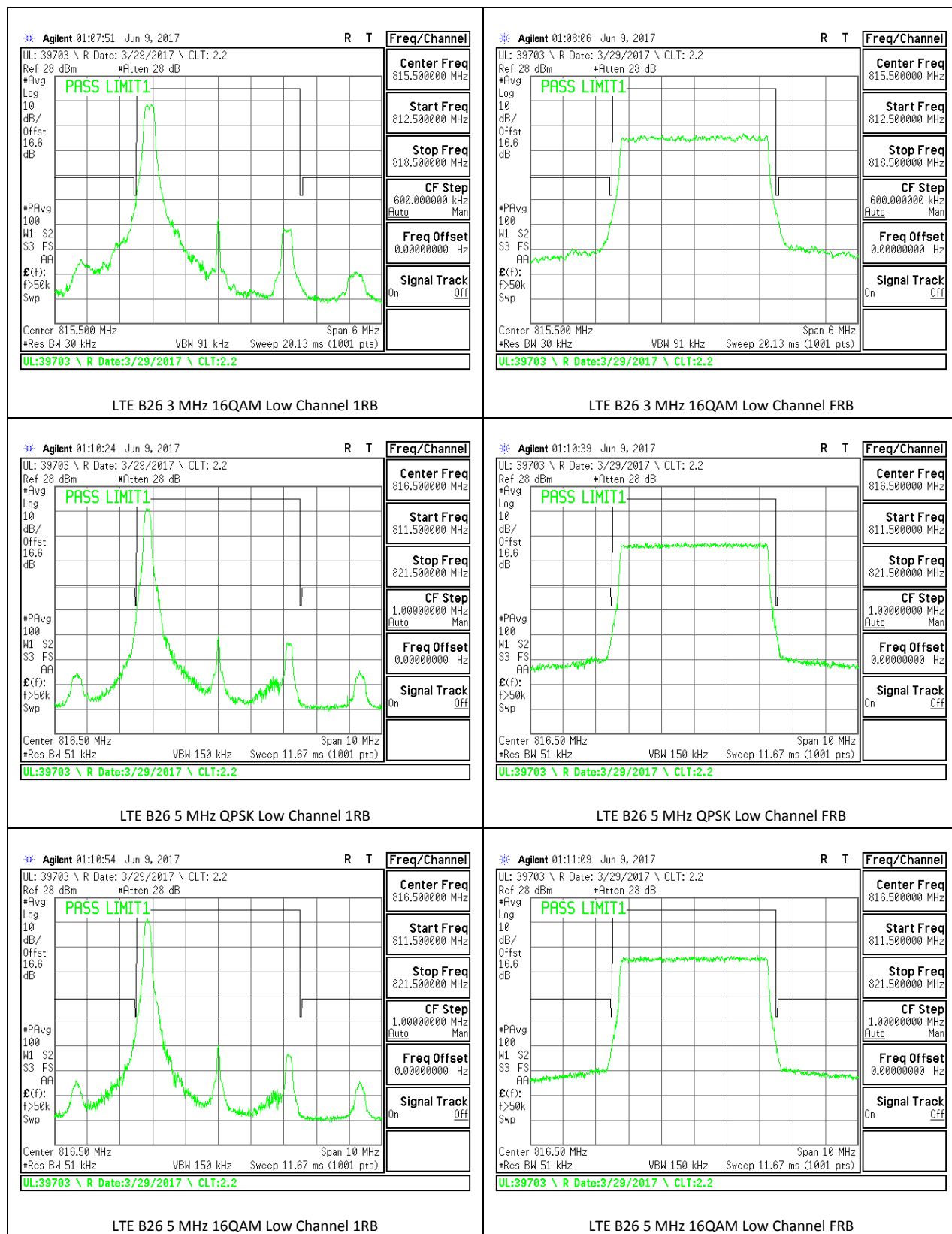


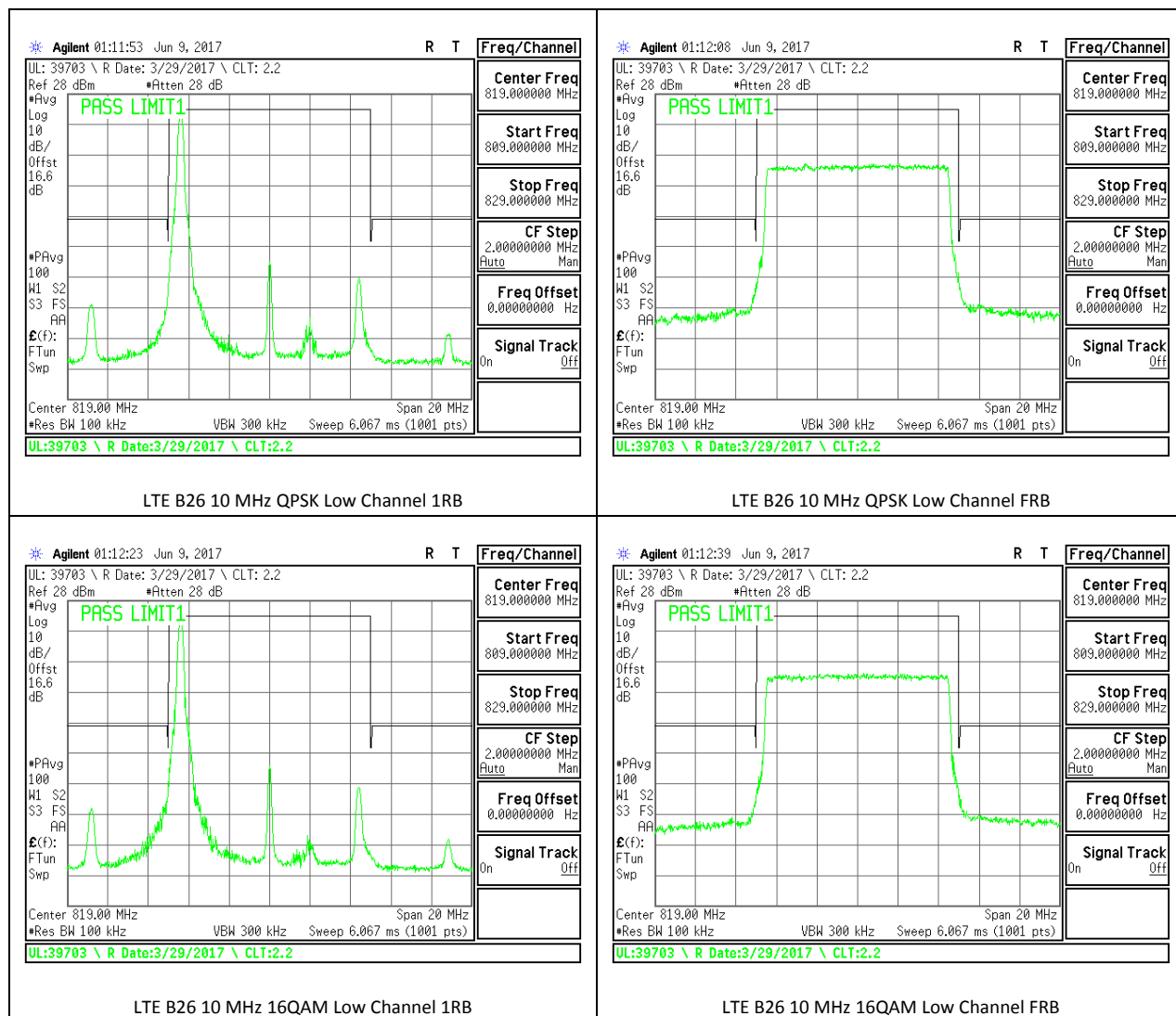




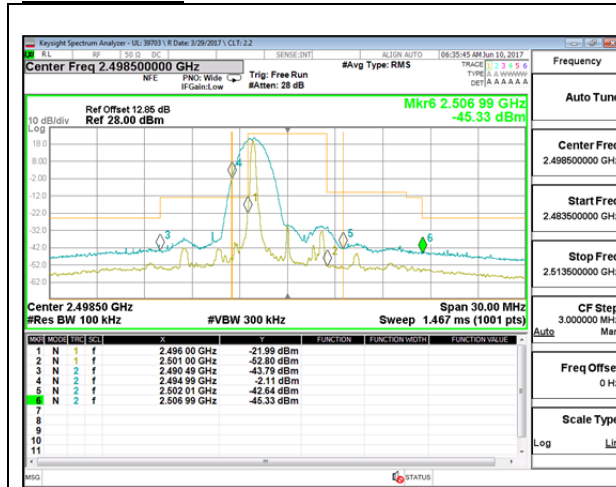
LTE Band 26 Part 90



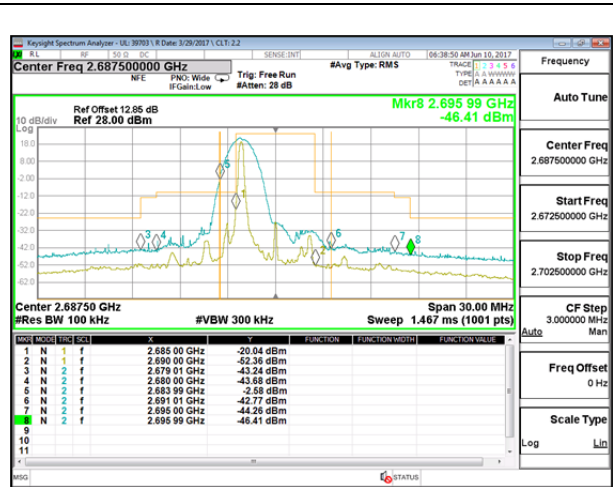




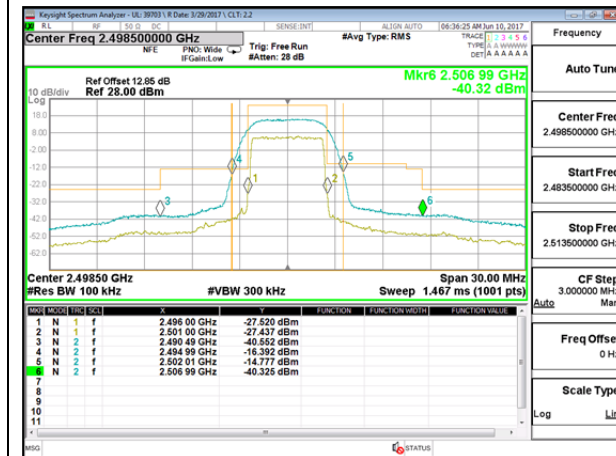
LTE Band 41



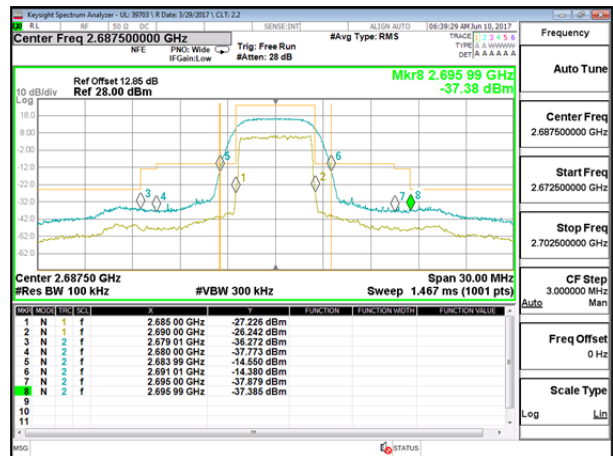
LTE B41 5MHz QPSK Low Channel 1RB



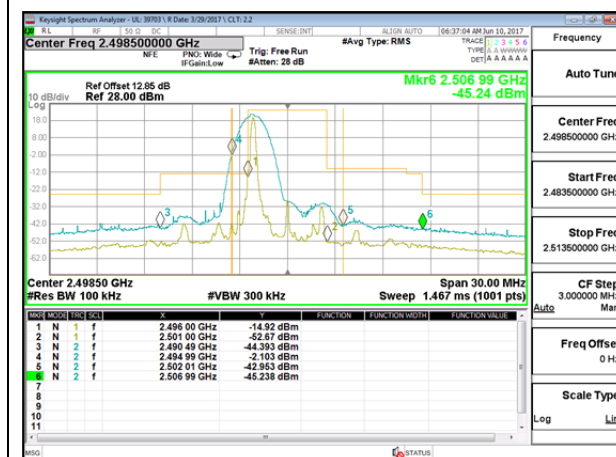
LTE B41 5MHz QPSK High Channel 1RB



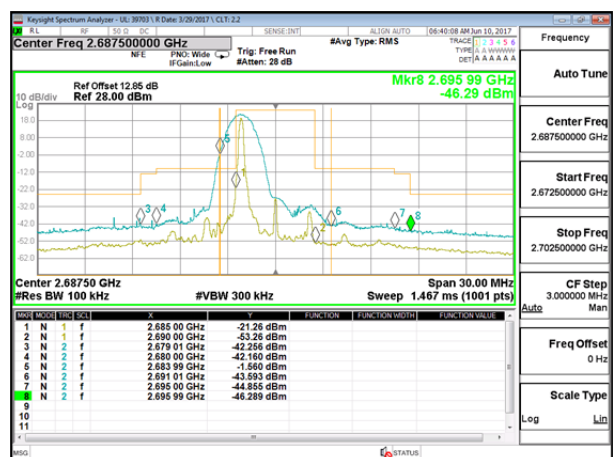
LTE B41 5MHz QPSK Low Channel FRB



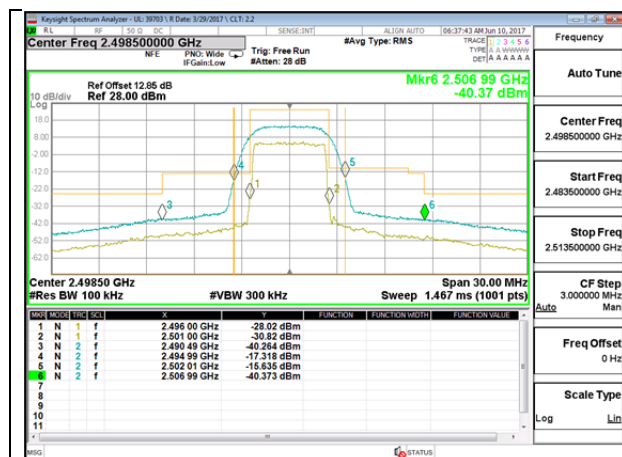
LTE B41 5MHz QPSK High Channel FRB



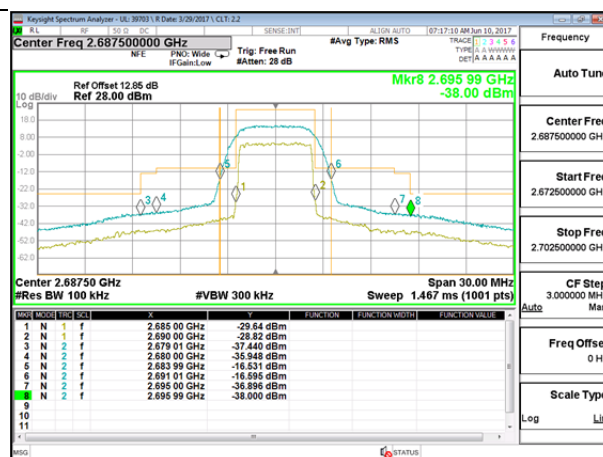
LTE B41 5MHz 16QAM Low Channel 1RB



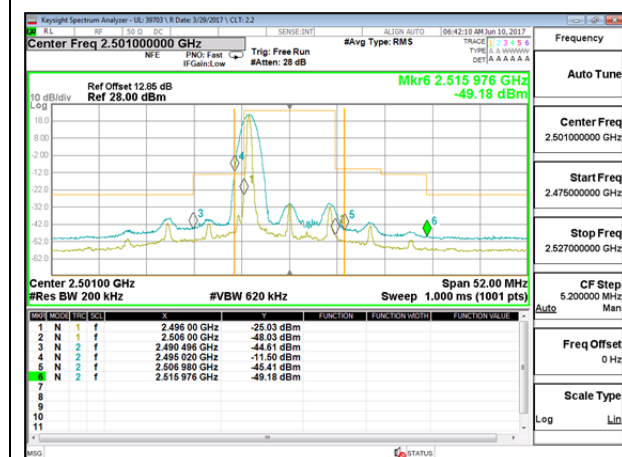
LTE B41 5MHz 16QAM High Channel 1RB



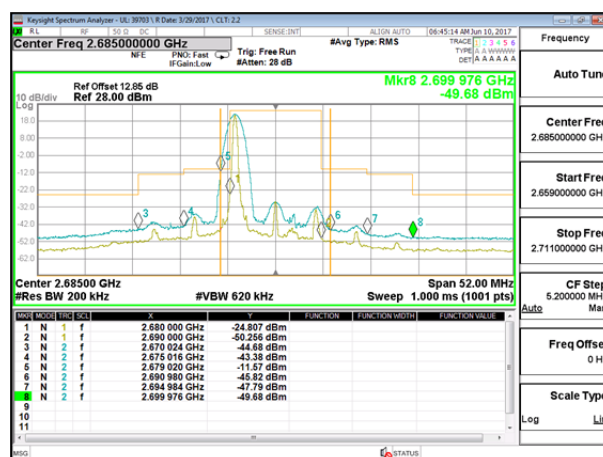
LTE B41 5MHz 16QAM Low Channel FRB



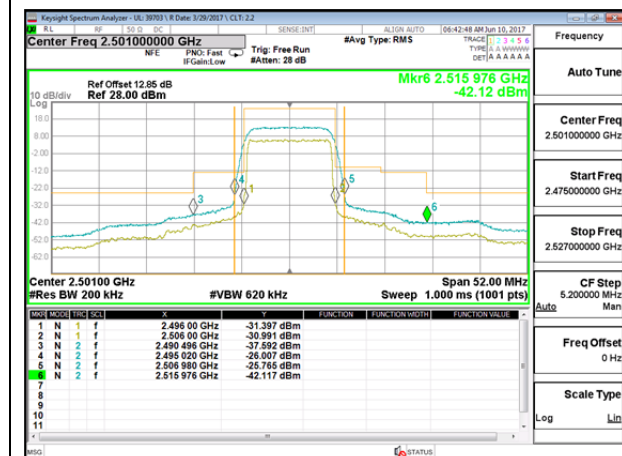
LTE B41 5MHz 16QAM High Channel FRB



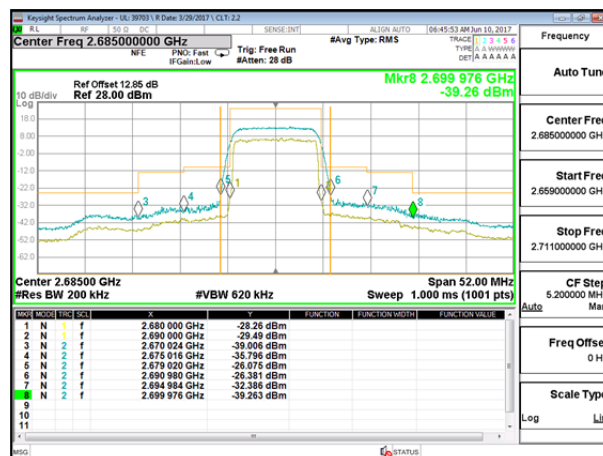
LTE B41 10MHz QPSK Low Channel 1RB



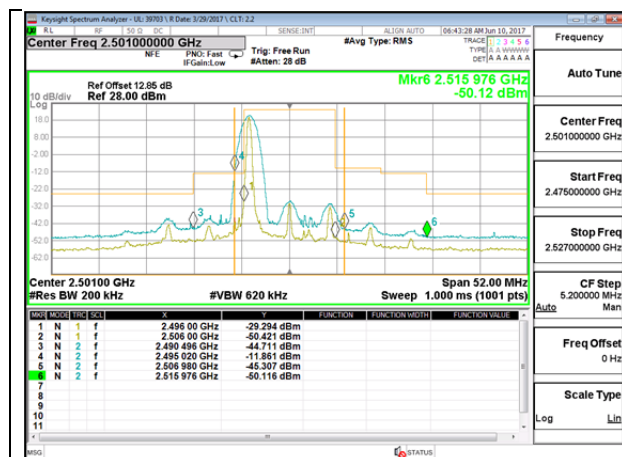
LTE B41 10MHz QPSK High Channel 1RB



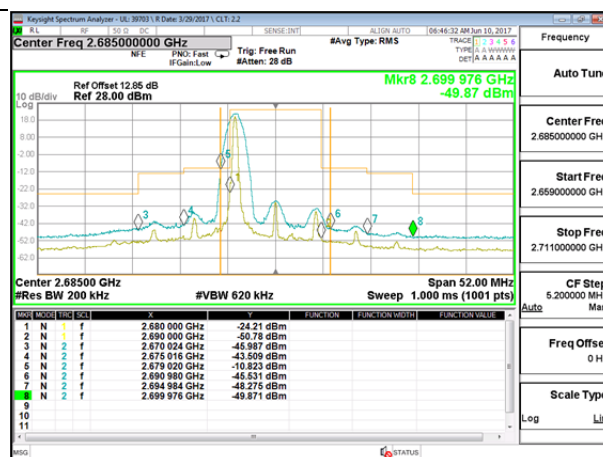
LTE B41 10MHz QPSK Low Channel FRB



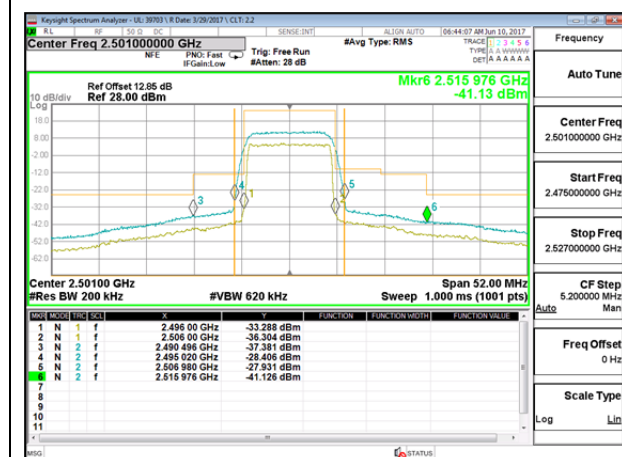
LTE B41 10MHz QPSK High Channel FRB



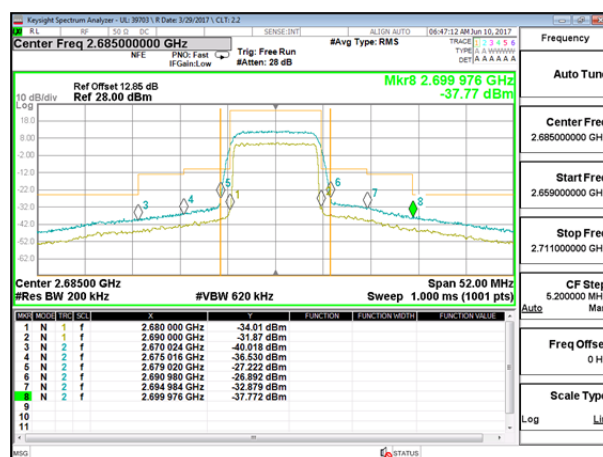
LTE B41 10MHz 16QAM Low Channel 1RB



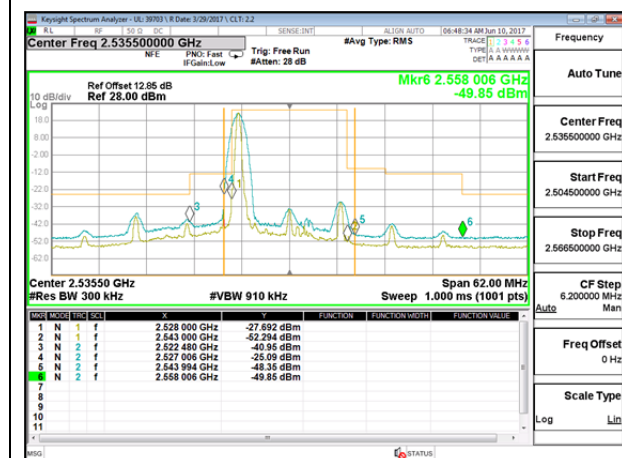
LTE B41 10MHz 16QAM High Channel 1RB



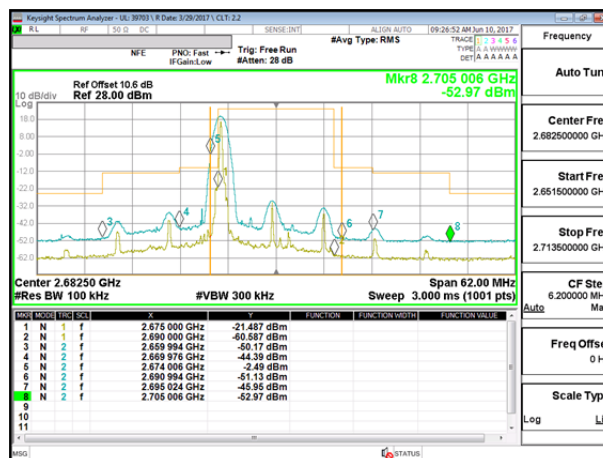
LTE B41 10MHz 16QAM Low Channel FRB



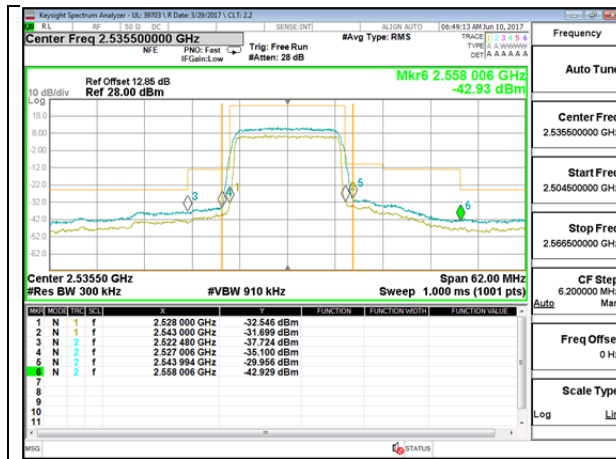
LTE B41 10MHz 16QAM High Channel FRB



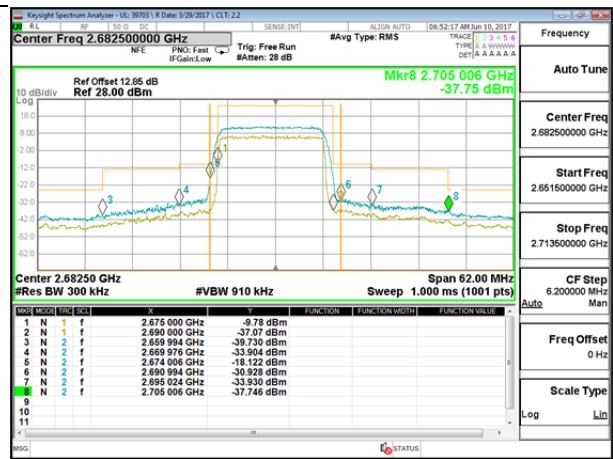
LTE B41 15MHz QPSK Low Channel 1RB



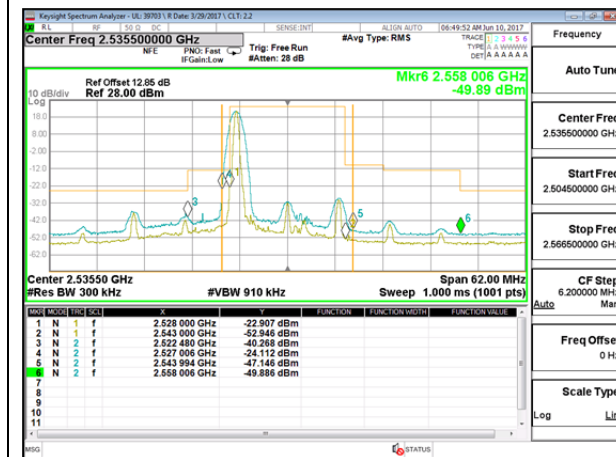
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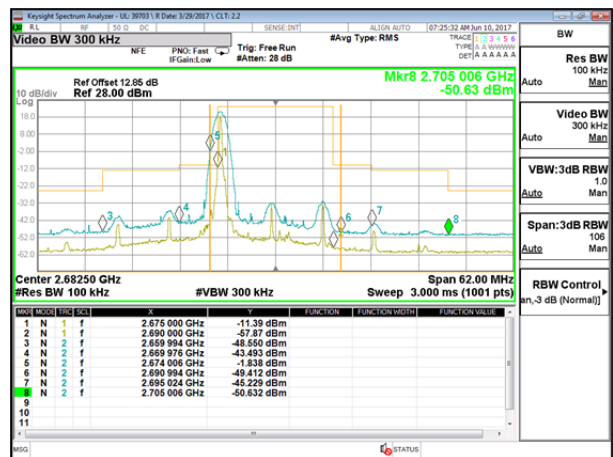
LTE B41 15MHz QPSK Low Channel FRB



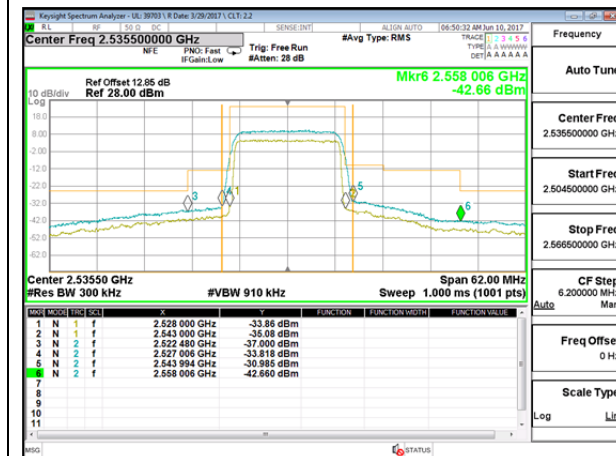
LTE B41 15MHz QPSK High Channel FRB



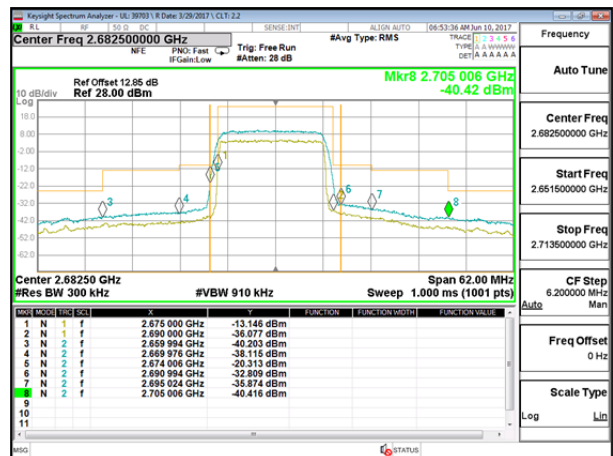
LTE B41 15MHz 16QAM Low Channel 1RB



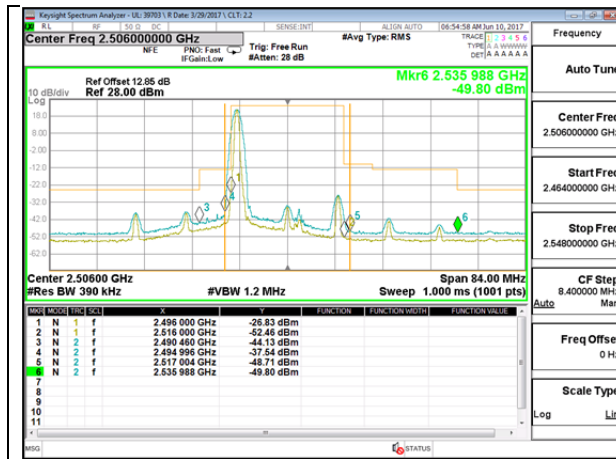
LTE B41 15MHz 16QAM High Channel 1RB



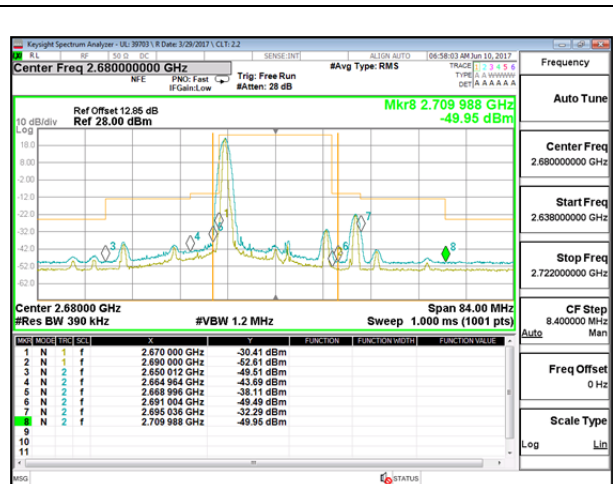
LTE B41 15MHz 16QAM Low Channel FRB



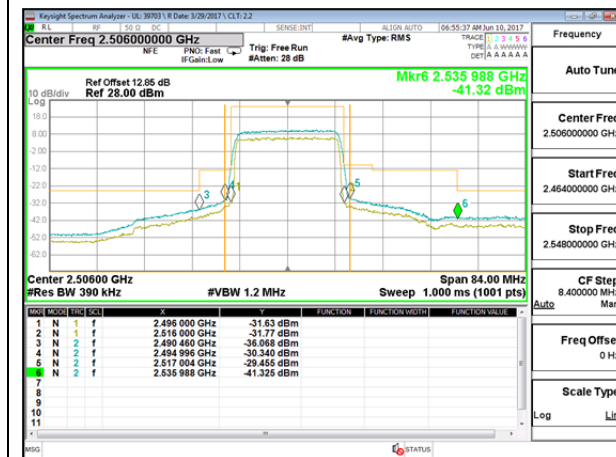
LTE B41 15MHz 16QAM High Channel FRB



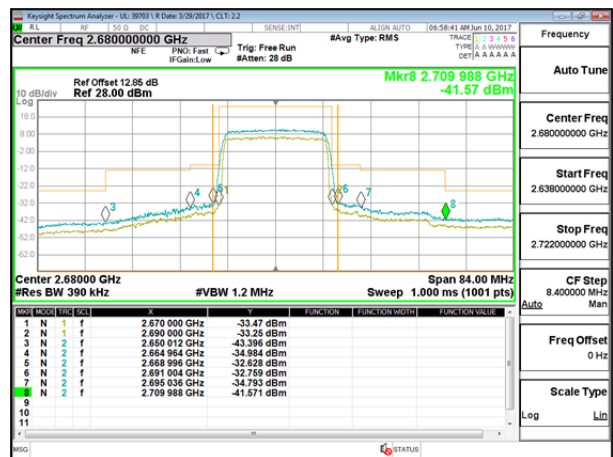
LTE B41 20MHz QPSK Low Channel 1RB



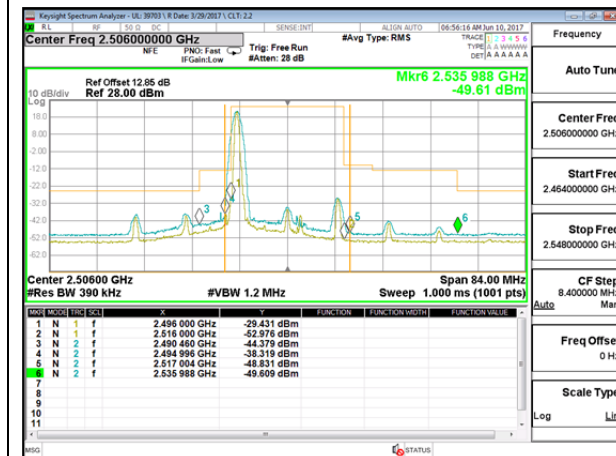
LTE B41 20MHz QPSK High Channel 1RB



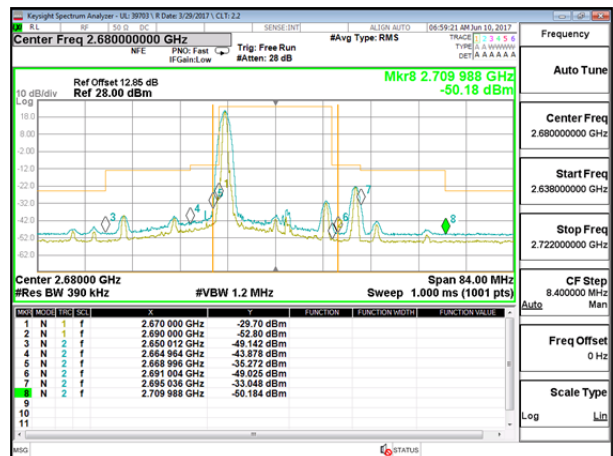
LTE B41 20MHz QPSK Low Channel FRB



LTE B41 20MHz QPSK High Channel FRB



LTE B41 20MHz 16QAM Low Channel 1RB



LTE B41 20MHz 16QAM High Channel 1RB



15. OUT OF BAND EMISSIONS

RULE PART(S)

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

FCC 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

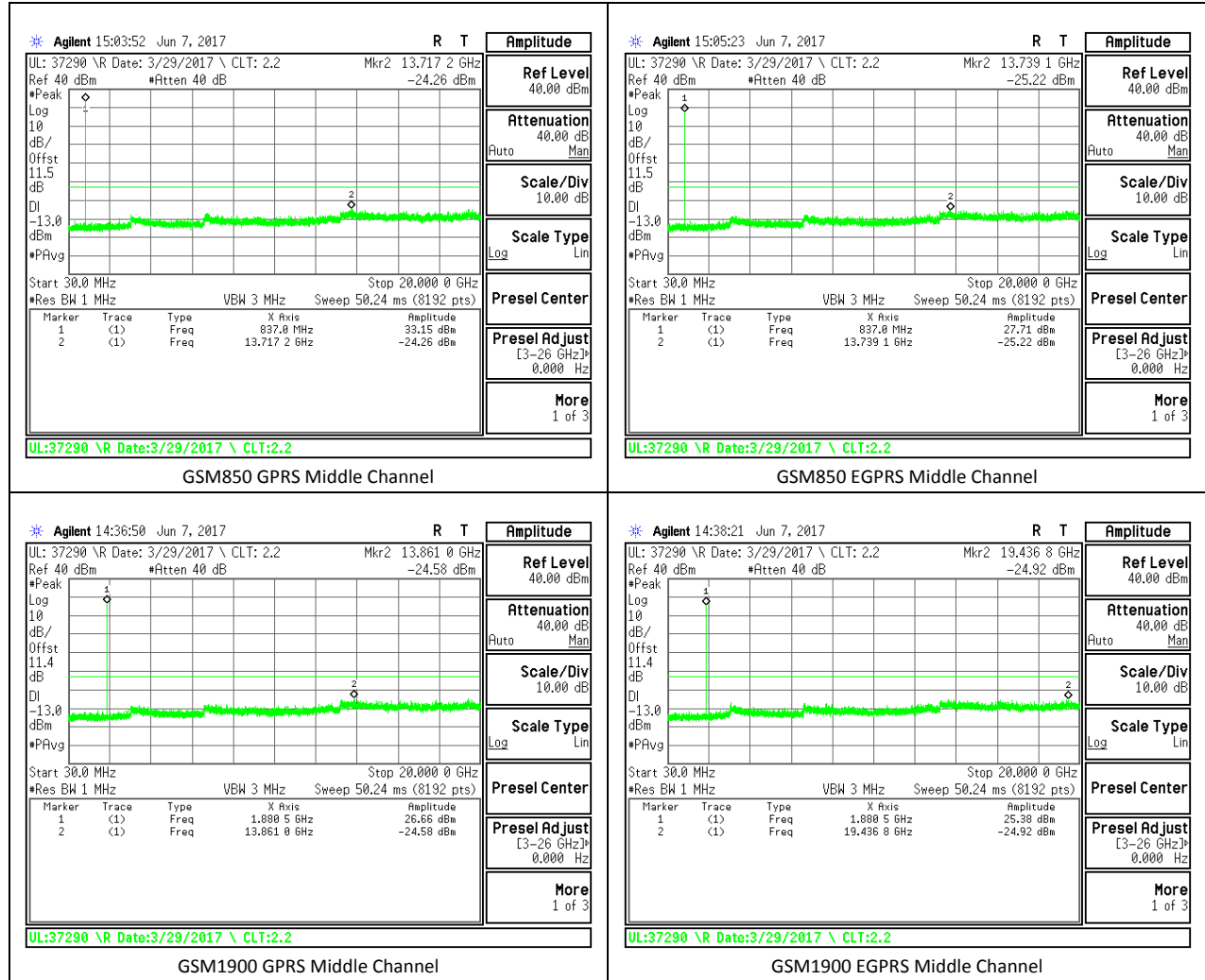
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in a maximum hold mode using a peak detector to ensure that the worst-case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

RESULTS

15.1. OUT OF BAND EMISSIONS RESULT AND PLOTS

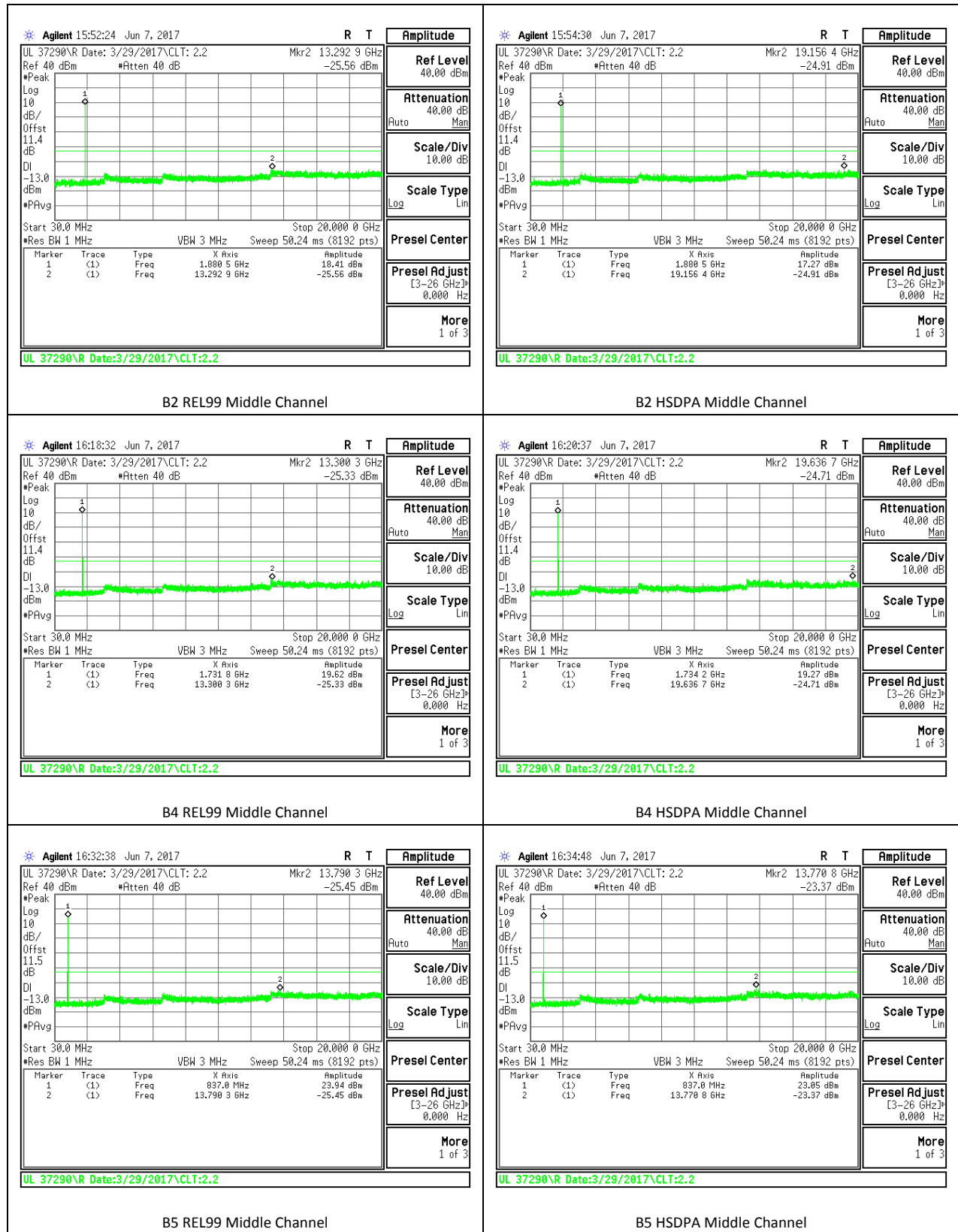
GSM

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
GSM 850	GPRS	824.2	-24.72	-13	-11.72
		836.6	-24.26	-13	-11.26
		848.8	-24.92	-13	-11.92
	EGPRS	824.2	-24.47	-13	-11.47
		836.6	-25.22	-13	-12.22
		848.8	-24.18	-13	-11.18
GSM 1900	GPRS	1850.2	-23.32	-13	-10.32
		1880	-24.58	-13	-11.58
		1909.8	-25.04	-13	-12.04
	EGPRS	1850.2	-24.52	-13	-11.52
		1880	-24.92	-13	-11.92
		1909.8	-24.86	-13	-11.86



WCDMA

Band	Mode	f (MHz)	Spur (dBm)	99% BW (MHz)	Delta (dB)
Band 2	REL99	1852.4	-24.91	-13	-11.91
		1880	-25.56	-13	-12.56
		1907.6	-25.34	-13	-12.34
	HSDPA	1852.4	-24.15	-13	-11.15
		1880	-24.91	-13	-11.91
		1907.6	-23.6	-13	-10.6
Band 4	REL99	1712.4	-25.22	-13	-12.22
		1732.6	-25.33	-13	-12.33
		1752.6	-25.22	-13	-12.22
	HSDPA	1712.4	-24.37	-13	-11.37
		1732.6	-24.71	-13	-11.71
		1752.6	-23.42	-13	-10.42
Band 5	REL99	826.4	-24.94	-13	-11.94
		836.6	-25.45	-13	-12.45
		846.6	-24.66	-13	-11.66
	HSDPA	826.4	-25.32	-13	-12.32
		836.6	-23.37	-13	-10.37
		846.6	-24.94	-13	-11.94



LTE Band 7

Band	BW (MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
LTE7	5	QPSK	2502.5	-34.62	-25	-9.62
			2535	-34.41	-25	-9.41
			2567.5	-34.48	-25	-9.48
		16QAM	2502.5	-33.86	-25	-8.86
			2535	-34.17	-25	-9.17
			2567.5	-33.45	-25	-8.45
	10	QPSK	2505	-33.36	-25	-8.36
			2535	-34.10	-25	-9.10
			2565	-34.15	-25	-9.15
		16QAM	2505	-34.31	-25	-9.31
			2535	-33.70	-25	-8.70
			2565	-32.58	-25	-7.58
	15	QPSK	2507.5	-33.78	-25	-8.78
			2535	-33.17	-25	-8.17
			2562.5	-33.30	-25	-8.3
		16QAM	2507.5	-34.28	-25	-9.28
			2535	-34.18	-25	-9.18
			2562.5	-34.32	-25	-9.32
	20	QPSK	2510	-34.94	-25	-9.94
			2535	-34.22	-25	-9.22
			2560	-32.89	-25	-7.89
		16QAM	2510	-34.09	-25	-9.09
			2535	-34.48	-25	-9.48
			2560	-33.56	-25	-8.56