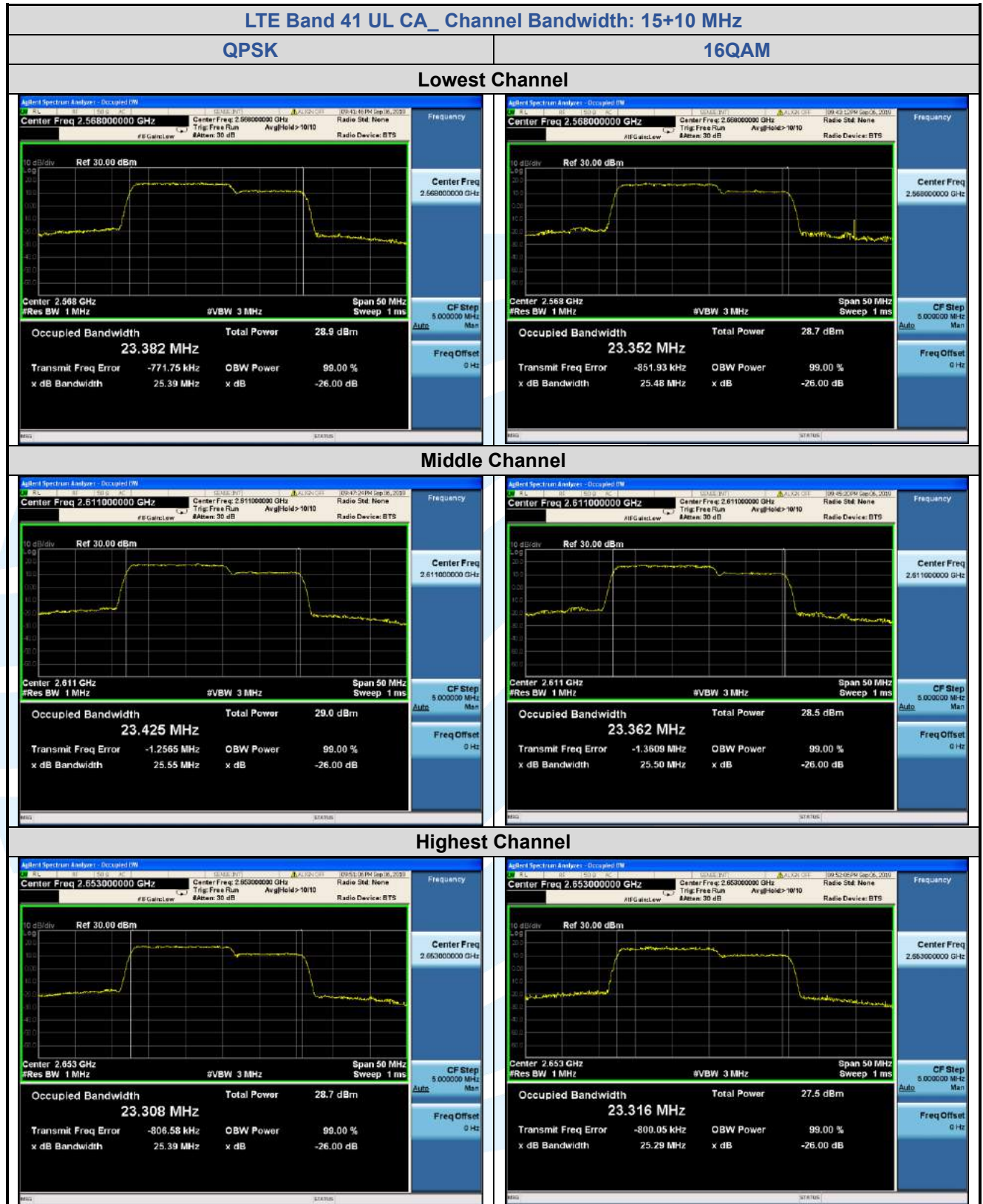
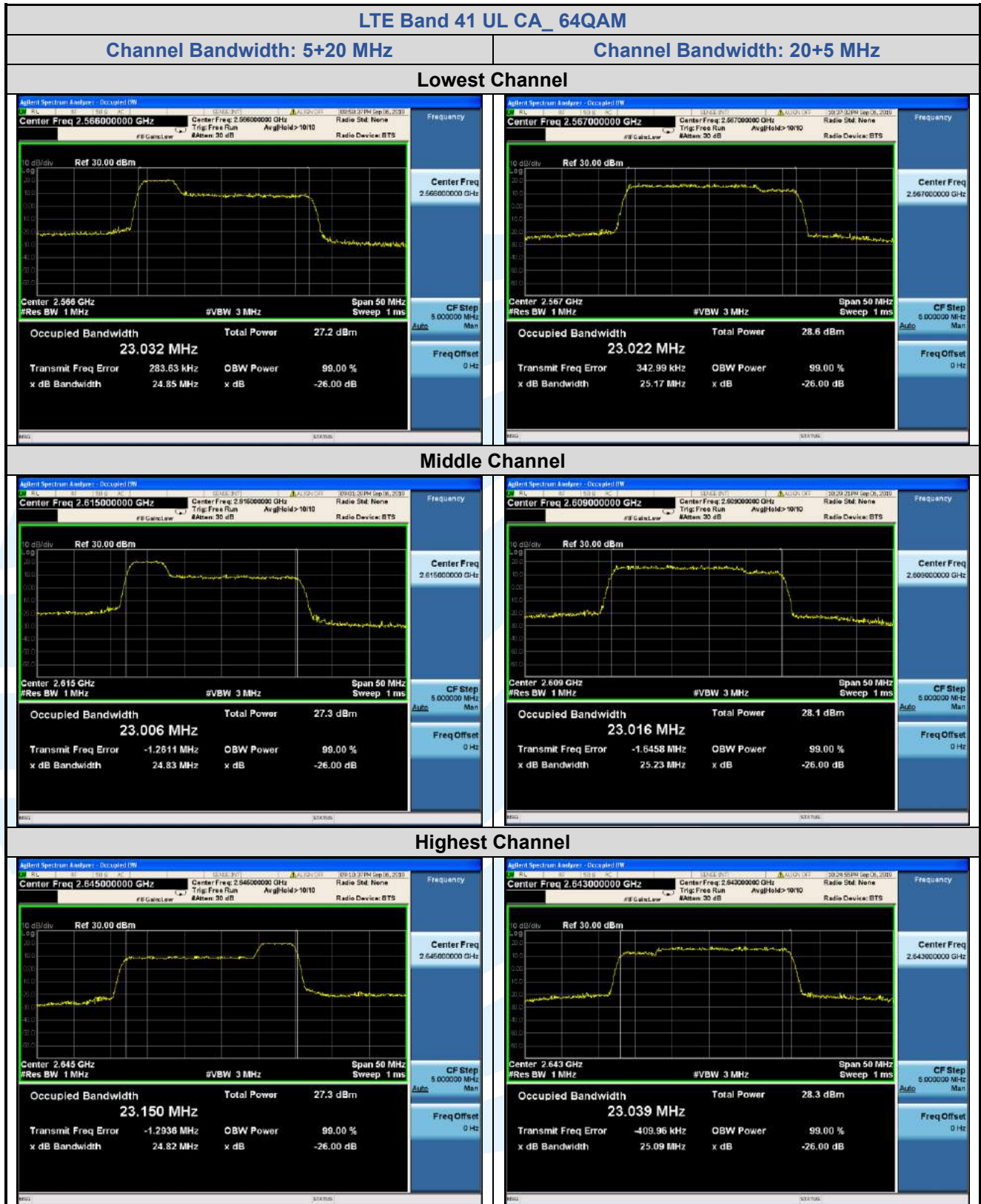
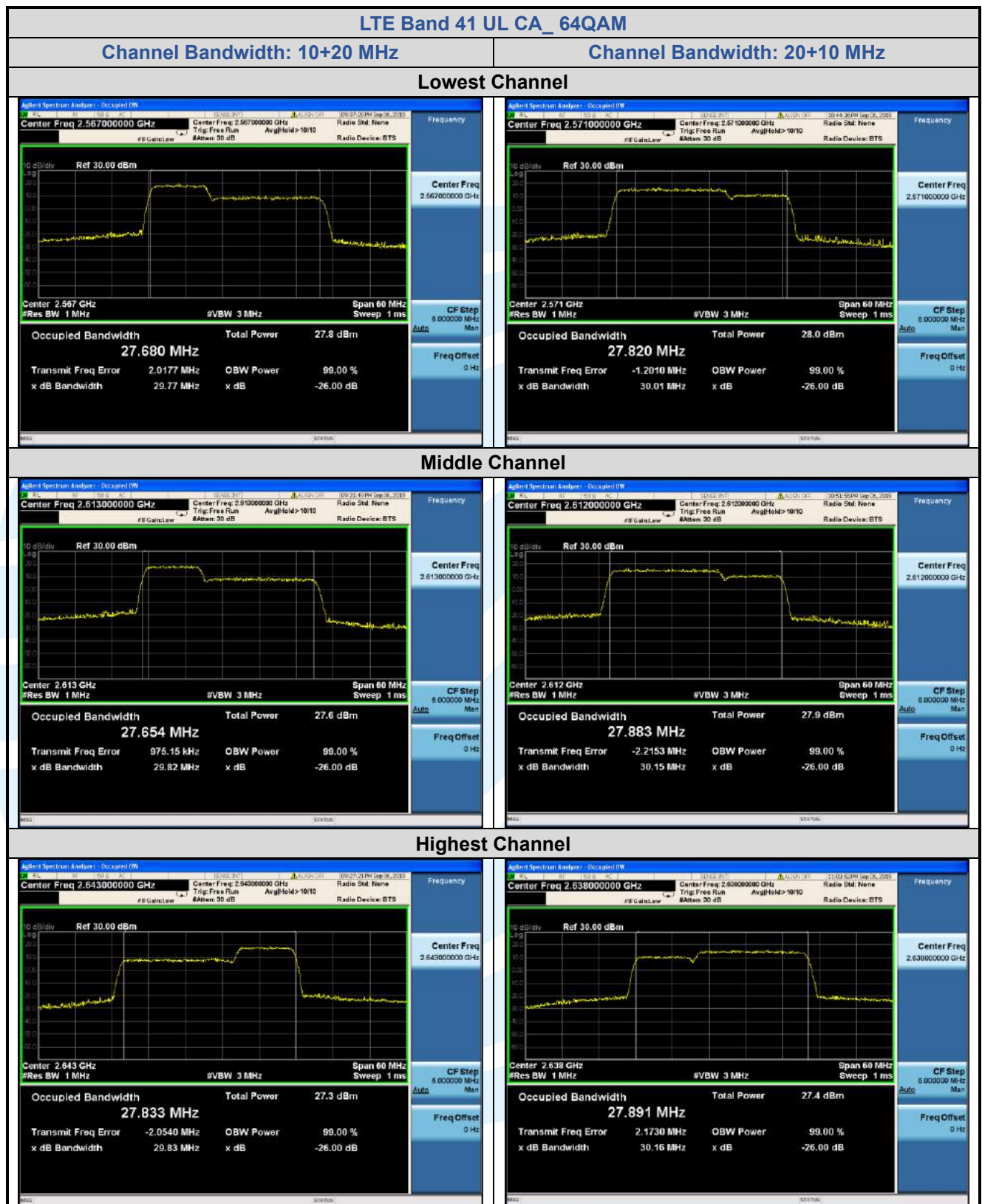
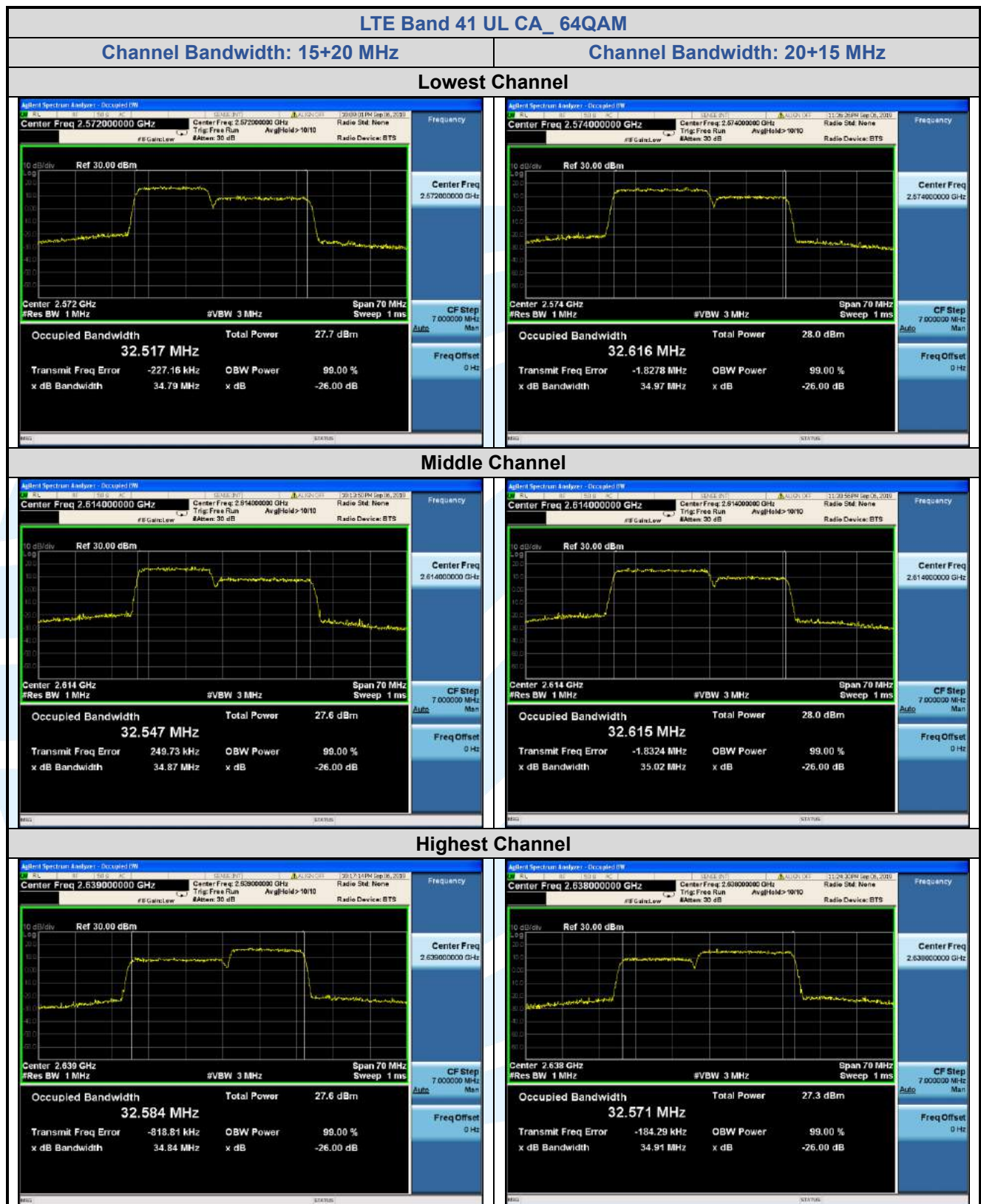
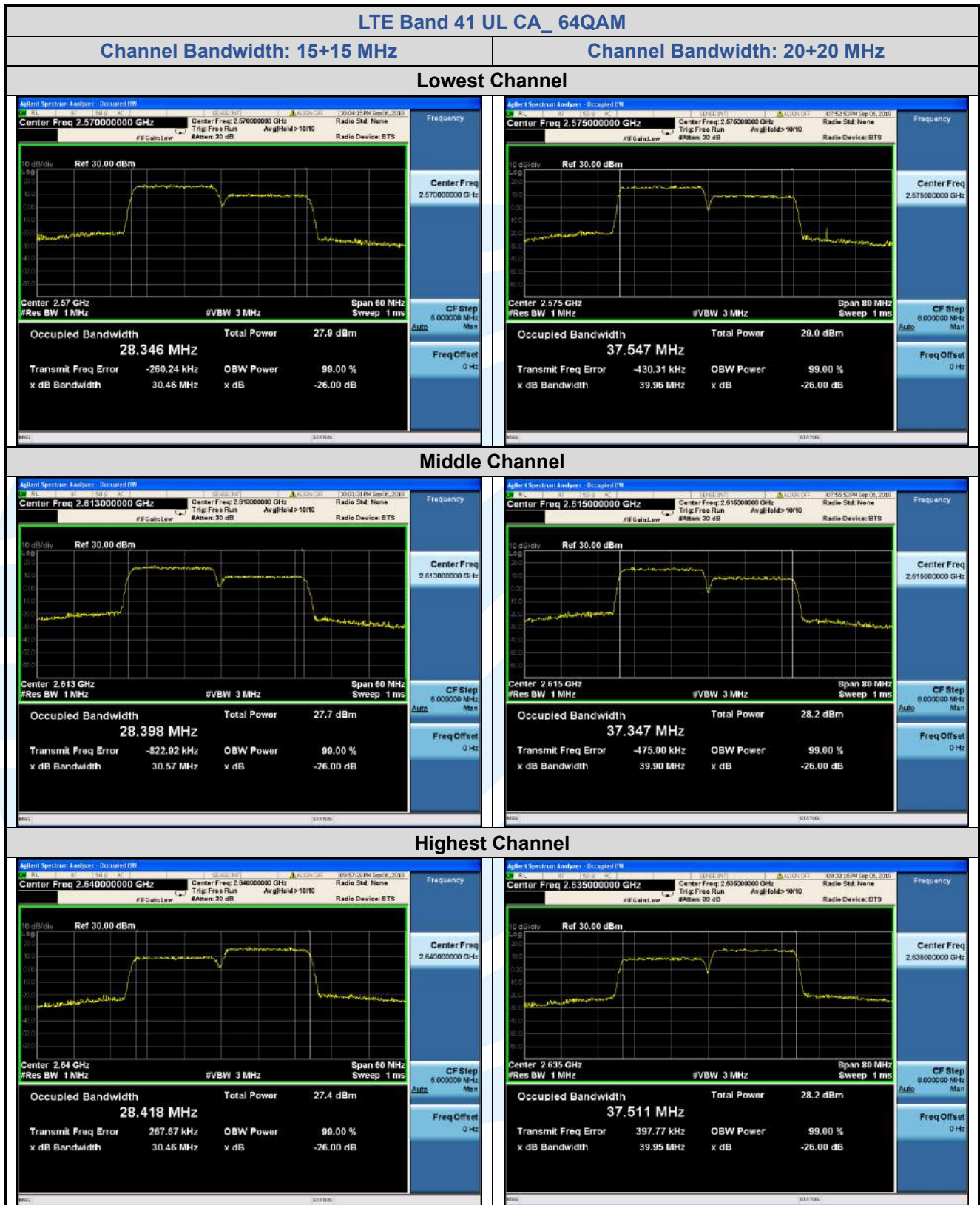


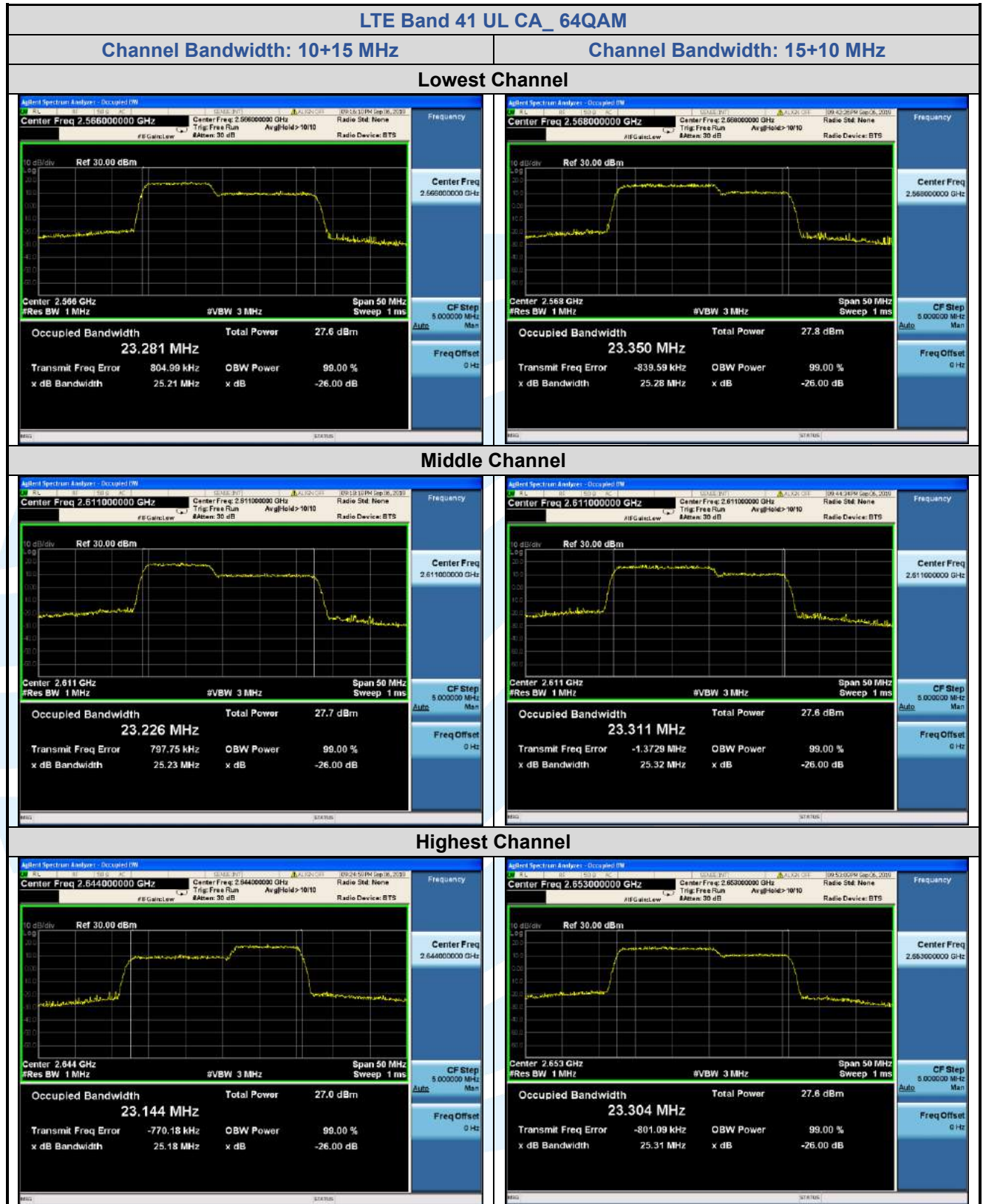






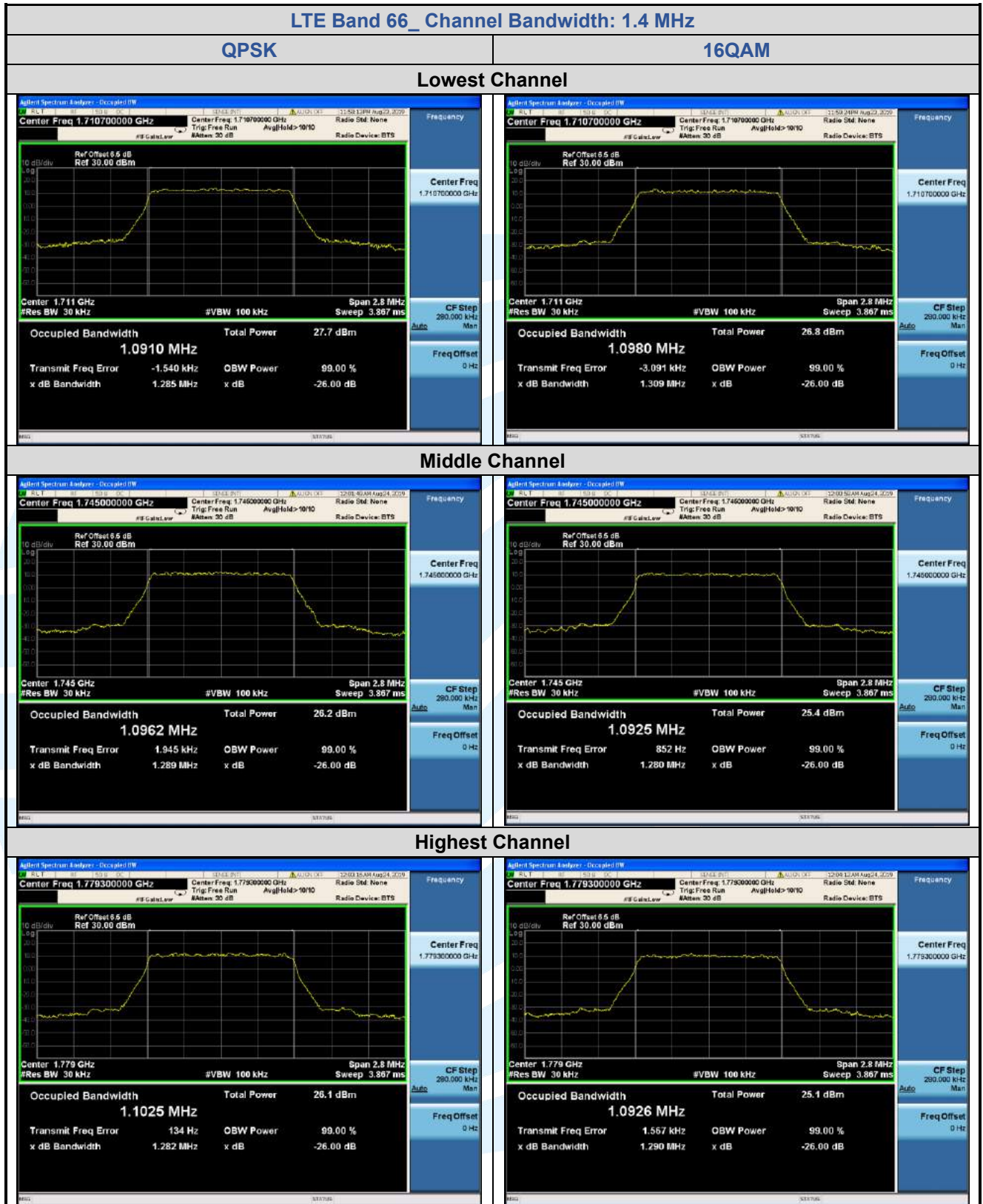


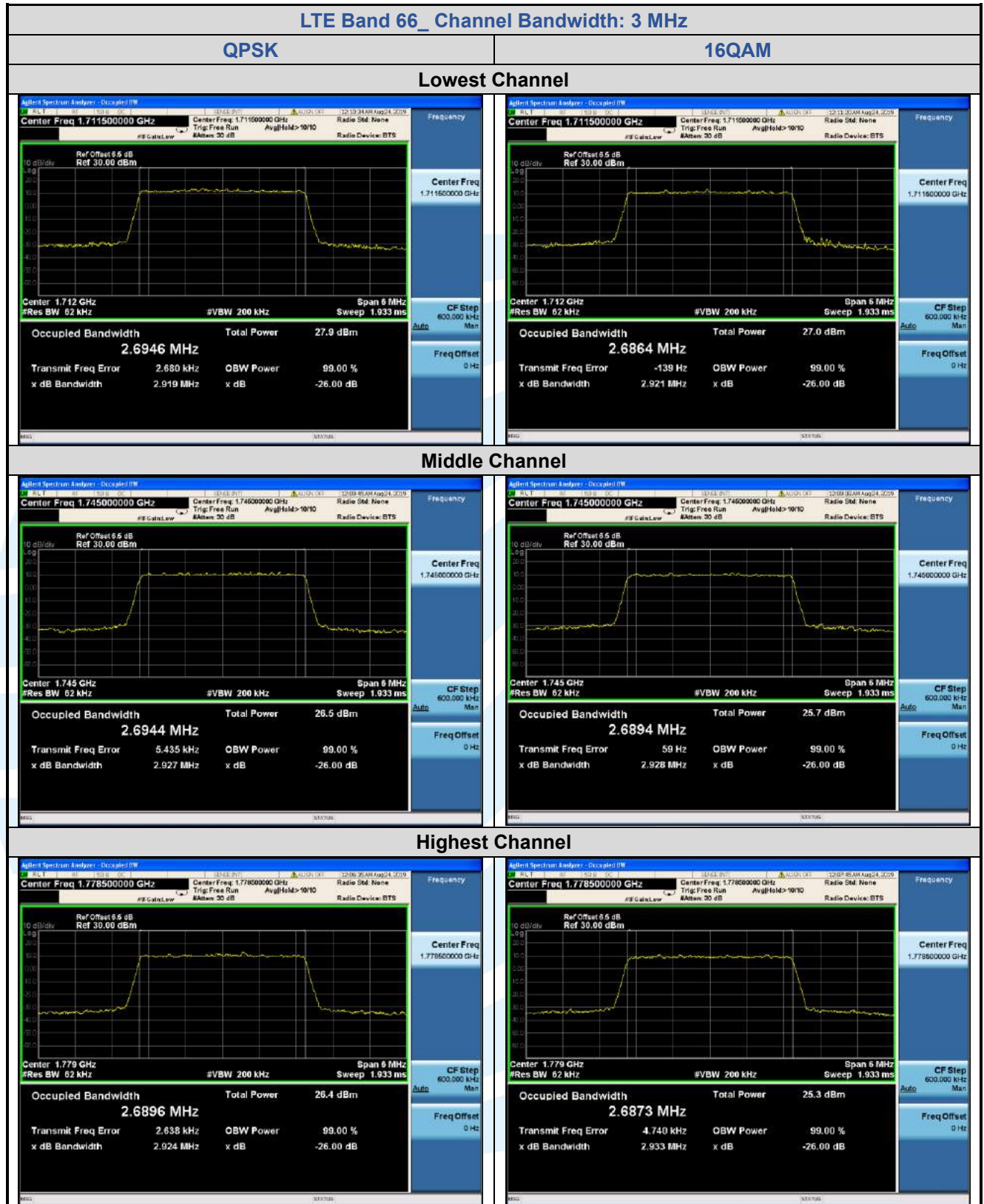


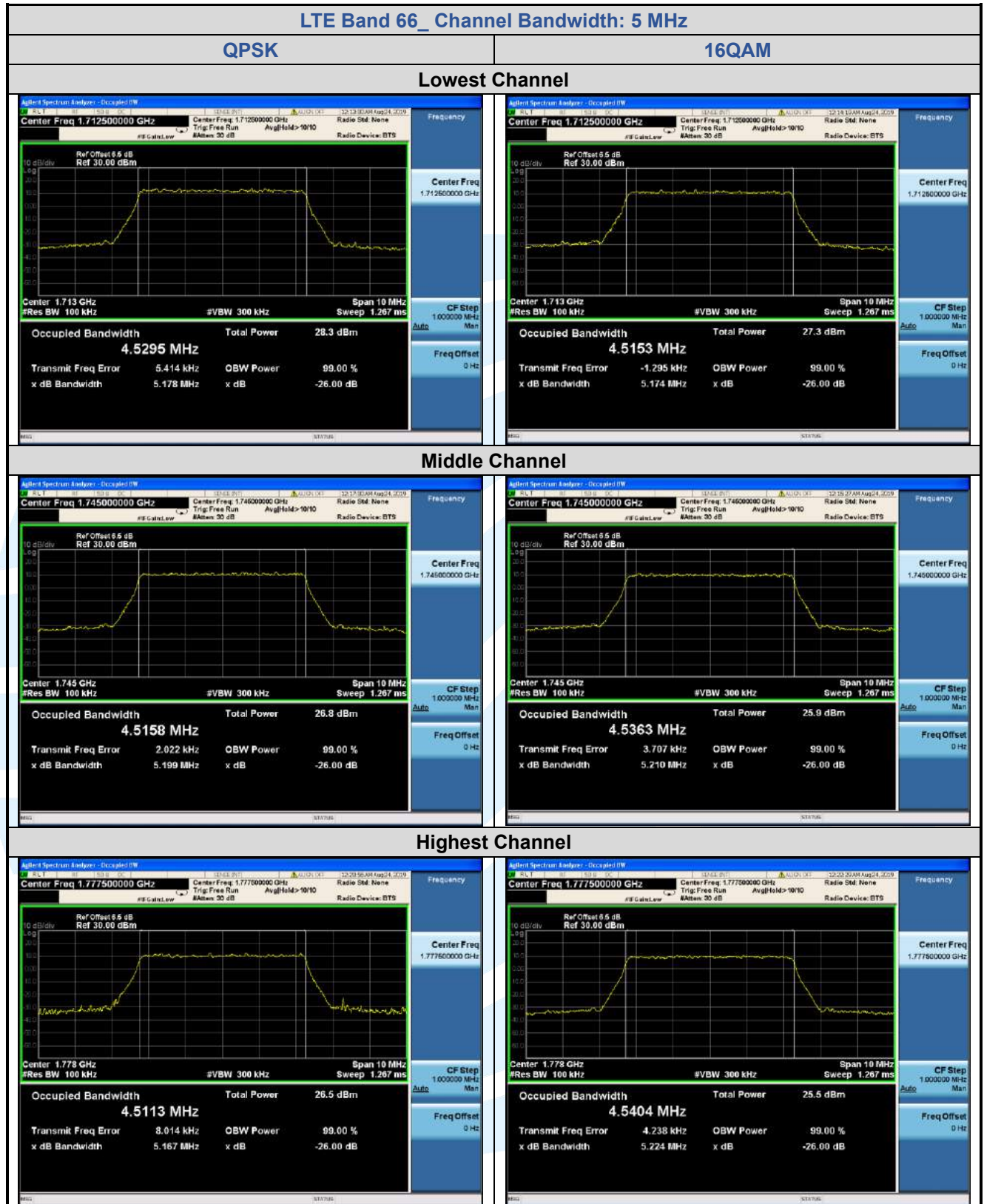


5.5.10 LTE Band 66

LTE Band 66								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 1.4 MHz								
Lowest	6	0	1.285	1.309	1.312	1.0910	1.0980	1.0968
Middle	6	0	1.289	1.280	1.270	1.0962	1.0925	1.0917
Highest	6	0	1.282	1.290	1.280	1.1025	1.0926	1.0923
Channel Bandwidth: 3 MHz								
Lowest	15	0	2.919	2.921	2.930	2.6946	2.6864	2.6836
Middle	15	0	2.927	2.928	2.926	2.6944	2.6894	2.6880
Highest	15	0	2.924	2.933	2.928	2.6896	2.6873	2.6848
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.178	5.174	5.136	4.5295	4.5153	4.5115
Middle	25	0	5.199	5.120	5.176	4.5158	4.5363	4.5212
Highest	25	0	5.167	5.224	5.207	4.5113	4.5404	4.5334
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.18	10.09	10.06	9.0222	9.0107	8.9963
Middle	50	0	10.14	10.14	10.12	9.0100	9.0129	8.9953
Highest	50	0	10.07	10.10	10.04	8.9945	9.0092	9.0047
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.13	14.97	14.93	13.527	13.515	13.499
Middle	75	0	15.09	15.05	15.02	13.472	13.505	13.506
Highest	75	0	15.19	14.96	14.88	13.507	13.495	13.498
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.70	19.65	19.85	17.969	17.998	18.005
Middle	100	0	19.67	19.79	19.81	18.024	18.053	18.060
Highest	100	0	19.81	19.80	19.72	18.045	18.021	18.023

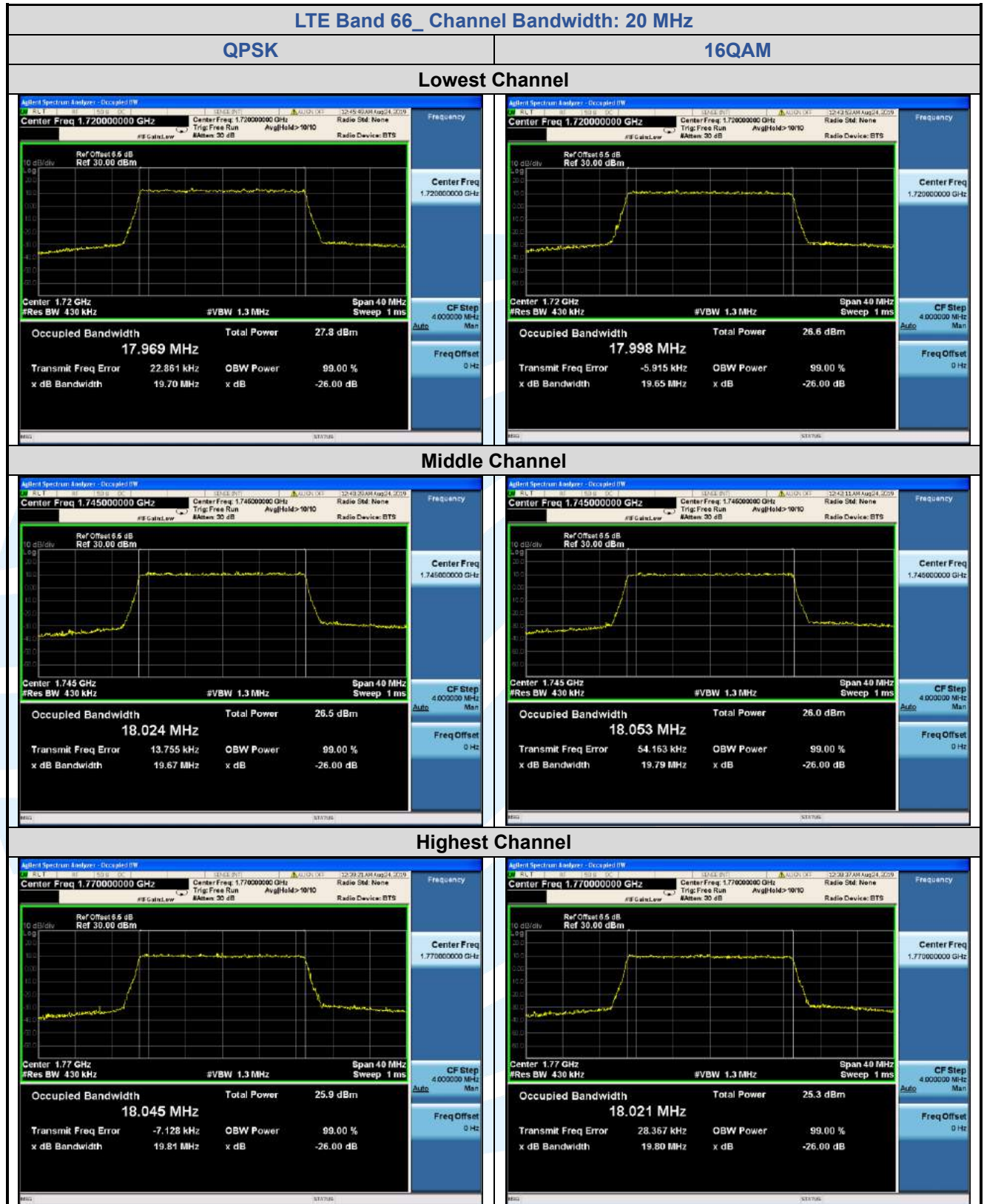


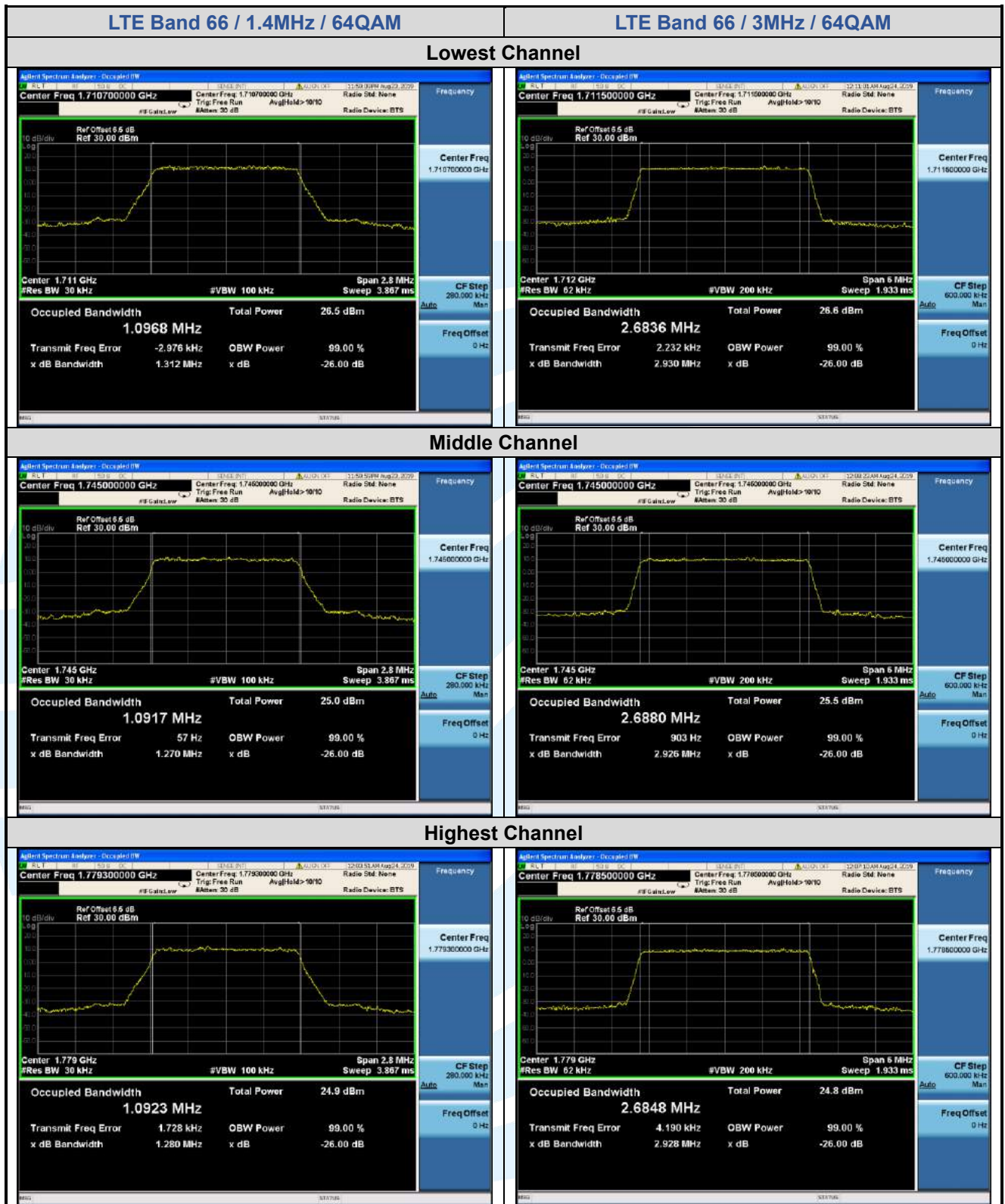




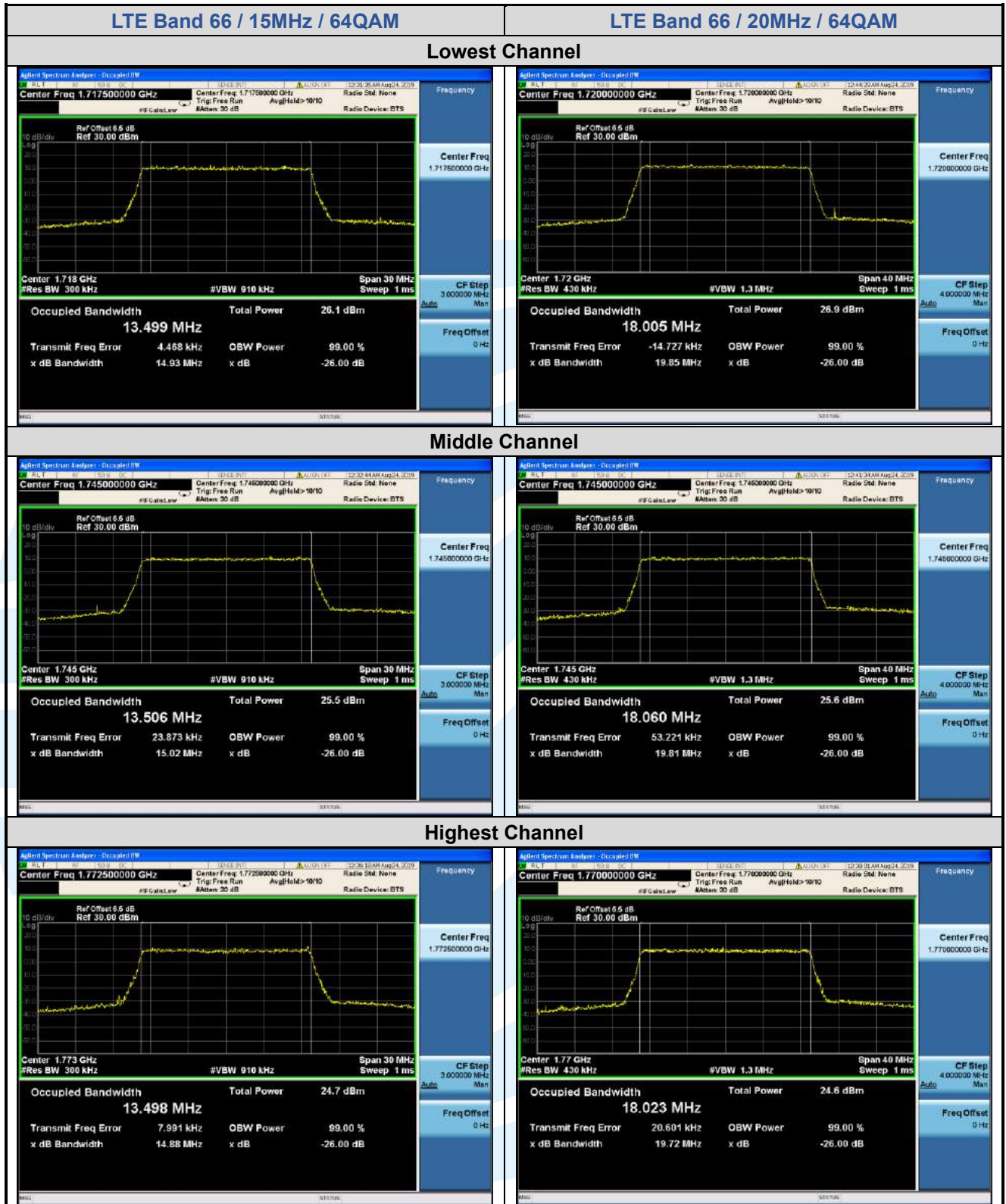






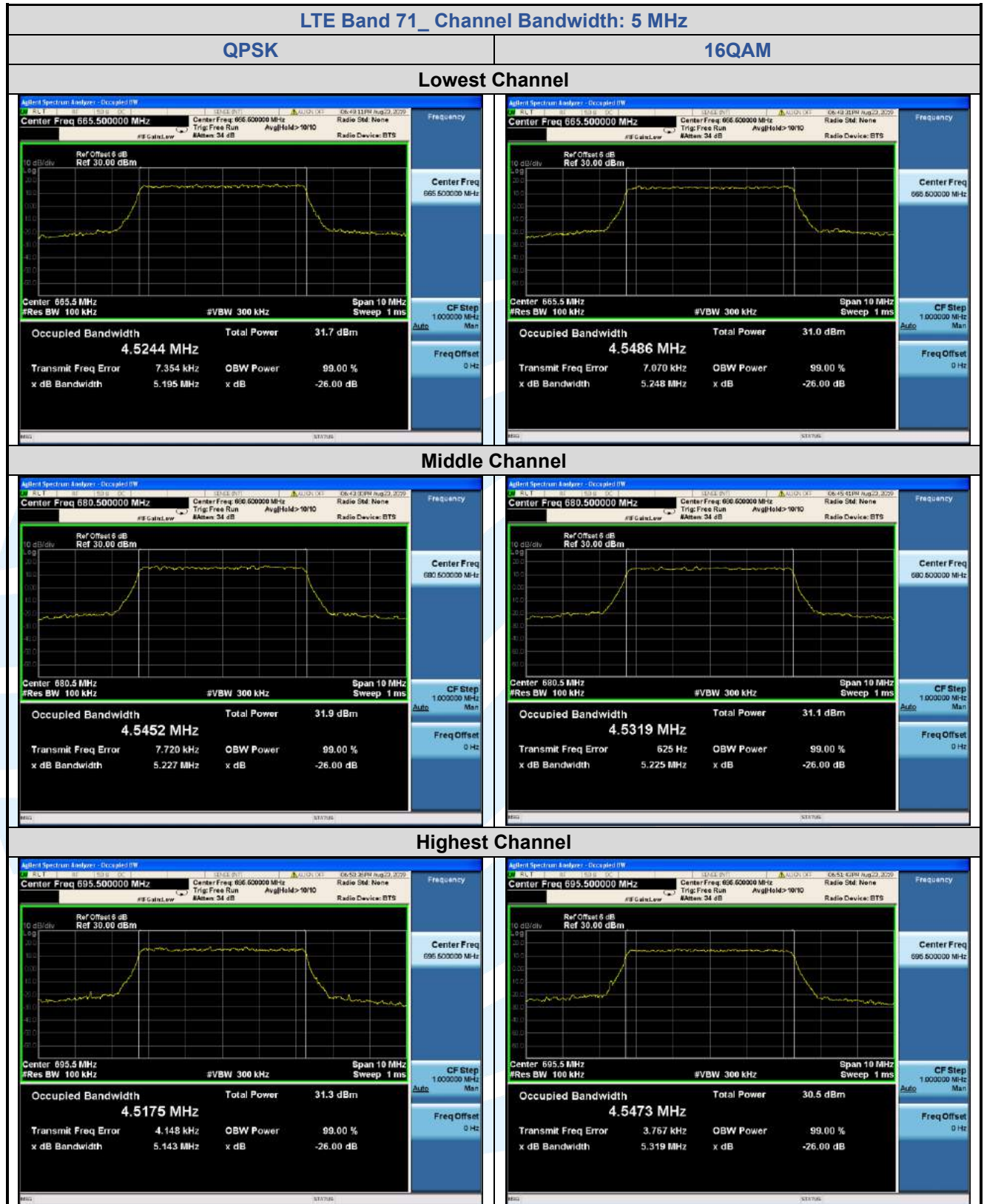






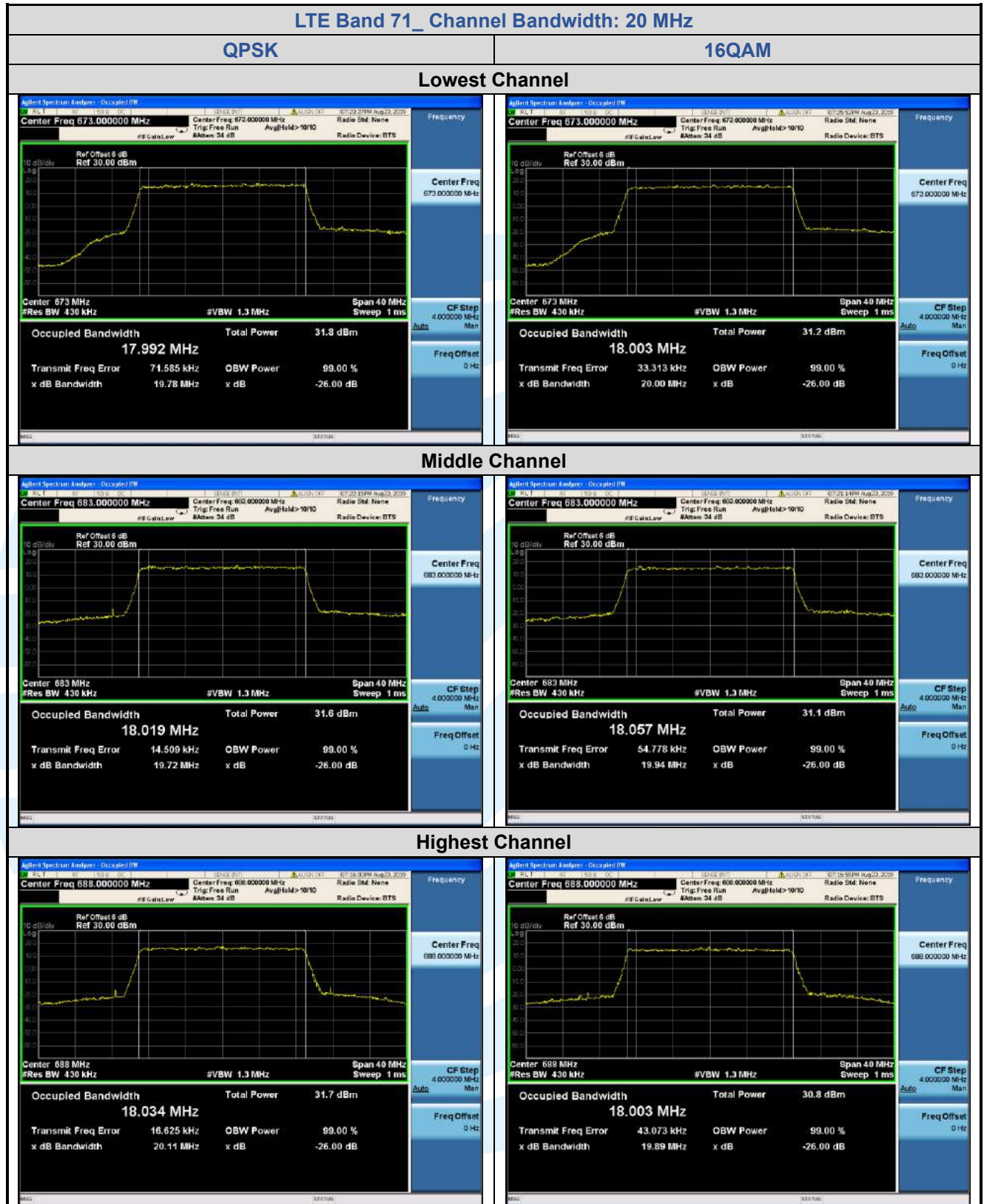
5.5.11 LTE Band 71

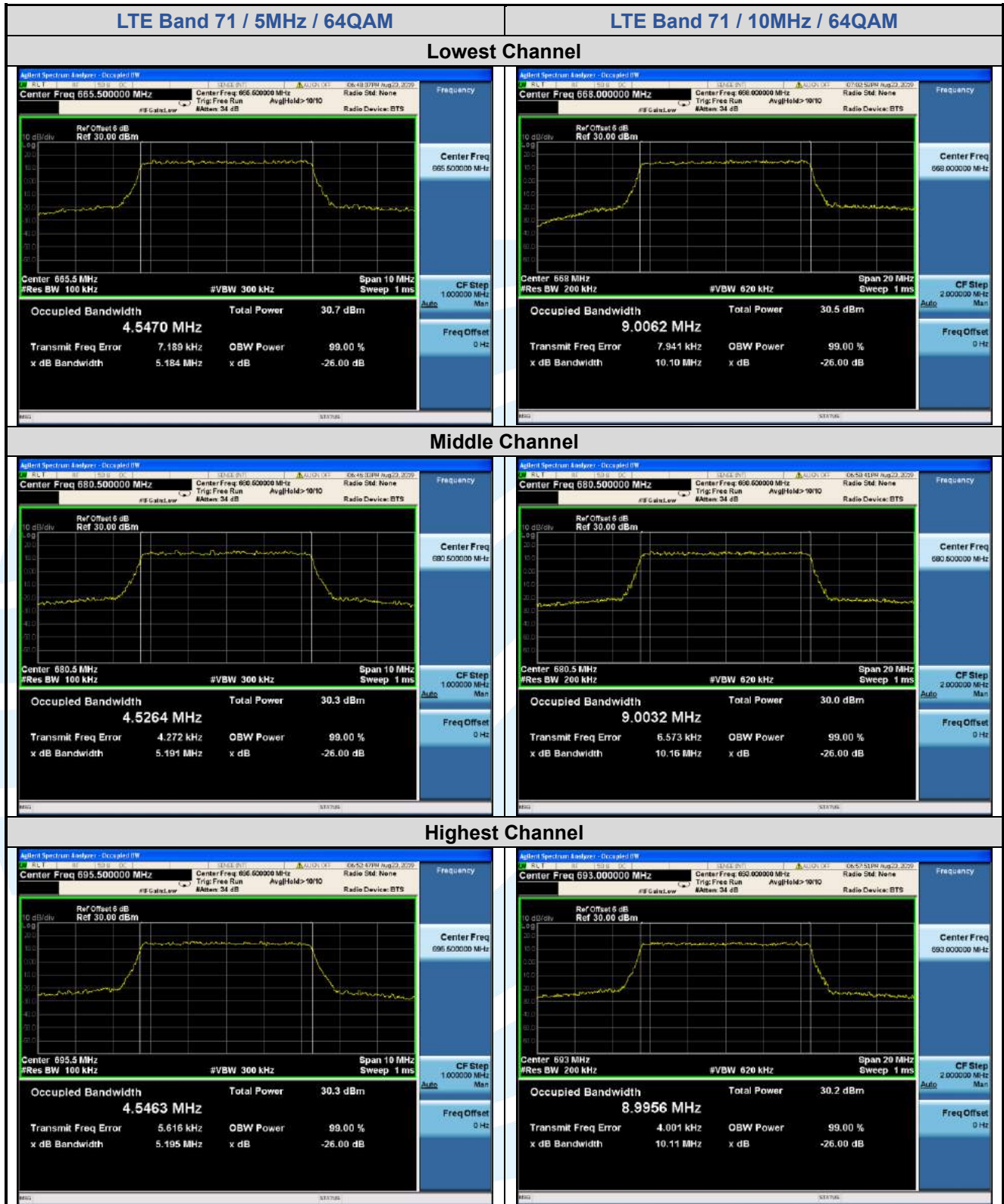
LTE Band 71								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.195	5.248	5.184	4.5244	4.5486	4.5470
Middle	25	0	5.227	5.225	5.191	4.5452	4.5319	4.5264
Highest	25	0	5.143	5.319	5.195	4.5175	4.5473	4.5463
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.12	10.15	10.10	9.0208	9.0032	9.0062
Middle	50	0	10.15	10.08	10.16	9.0015	9.0132	9.0032
Highest	50	0	10.26	10.14	10.11	9.0333	9.0200	8.9956
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.13	15.01	15.00	13.526	13.469	13.494
Middle	75	0	15.07	15.02	15.10	13.468	13.518	13.520
Highest	75	0	15.04	14.98	15.03	13.494	13.524	13.519
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.78	20.00	19.94	17.992	18.003	17.984
Middle	100	0	19.72	19.94	19.93	18.019	18.057	18.056
Highest	100	0	20.11	19.89	19.94	18.034	18.003	18.005

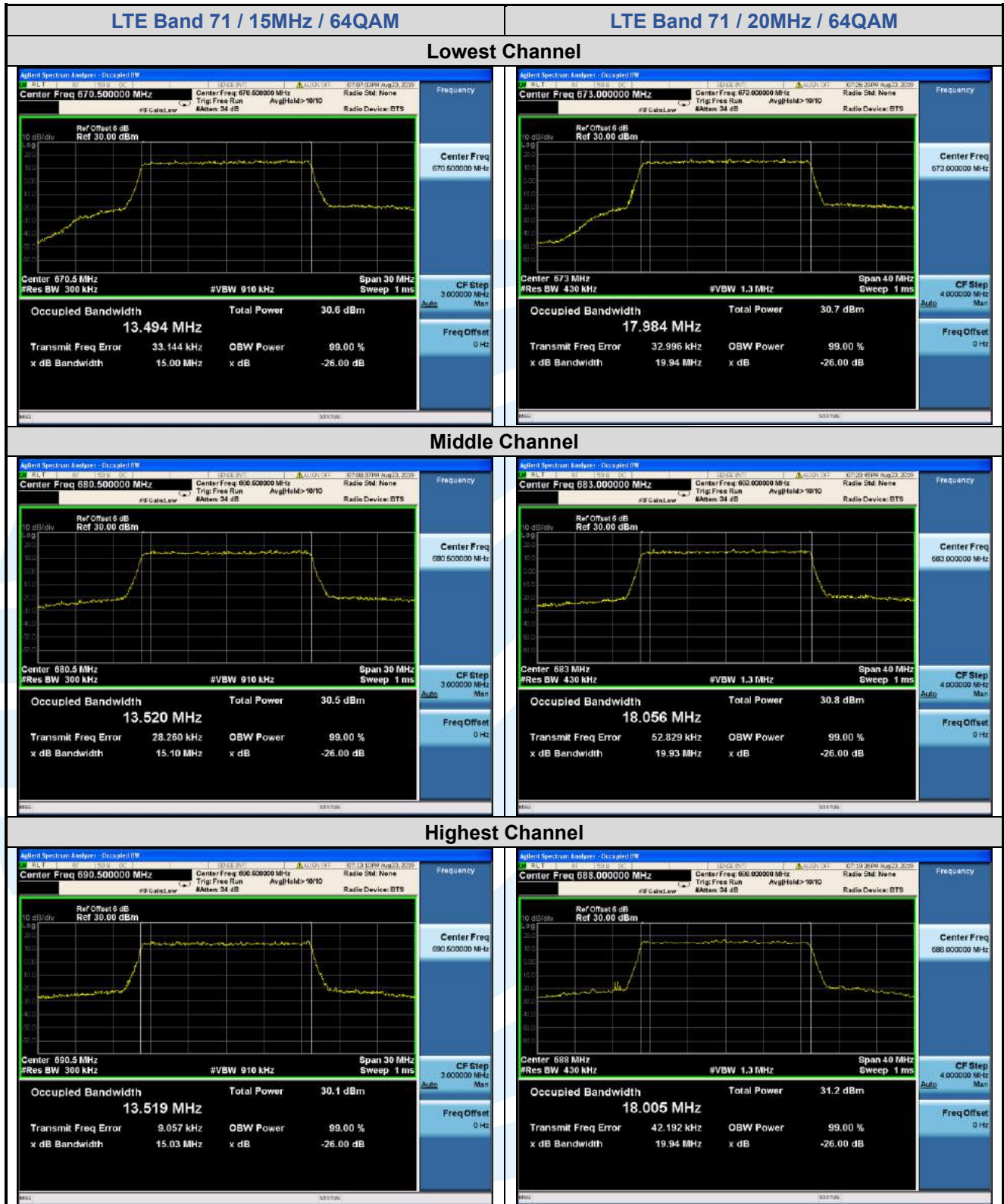












5.6 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: LTE Band 2 & LTE Band 25: FCC 47 CFR Part 24.238(a)
 LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)(1)
 LTE Band 5 & LTE Band 26: FCC 47 CFR Part 22.917(a)
 LTE Band 7 & Band 41: FCC 47 CFR Part 27.53(m)(4)
 LTE Band 12 & Band 17 & Band 71: FCC 47 CFR Part 27.53(g)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a) :

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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(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 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.

FCC 47 CFR Part 27.53(g):

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC 47 CFR Part 27.53(c)(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;

FCC 47 CFR Part 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 $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ 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 $43 + 10 \log_{10}(P)$ 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.

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.

For each band edge measurement:

- 1) Set the spectrum analyzer span to include the block edge frequency.
- 2) Set a marker to point the corresponding band edge frequency in each test case.
- 3) Set display line at -13 dBm
- 4) Set resolution bandwidth to at least 1% of emission bandwidth.
- 5) Set spectrum analyzer with RMS detector.
- 6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

Tel: +86-755-28230888

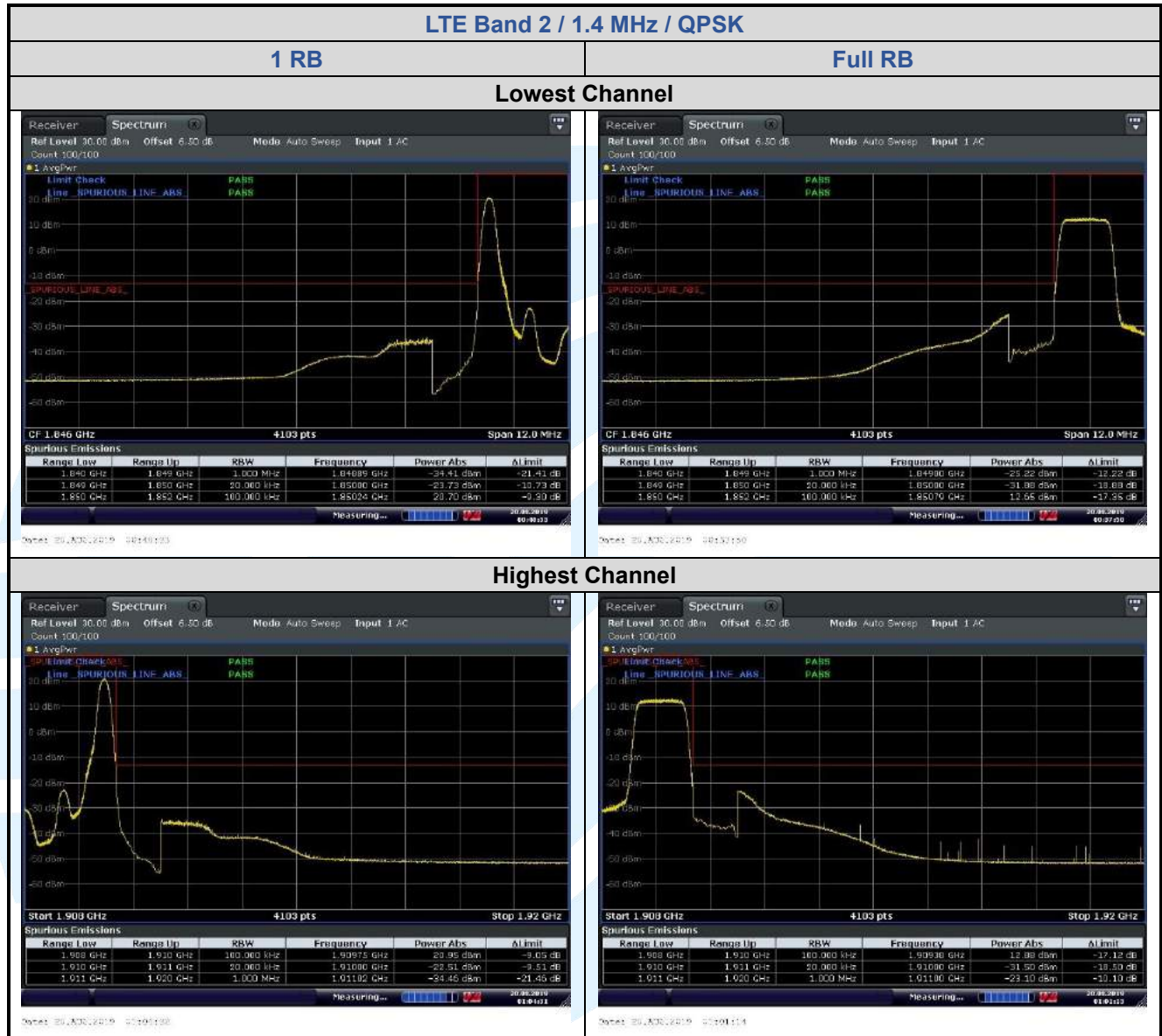
Fax: +86-755-28230888

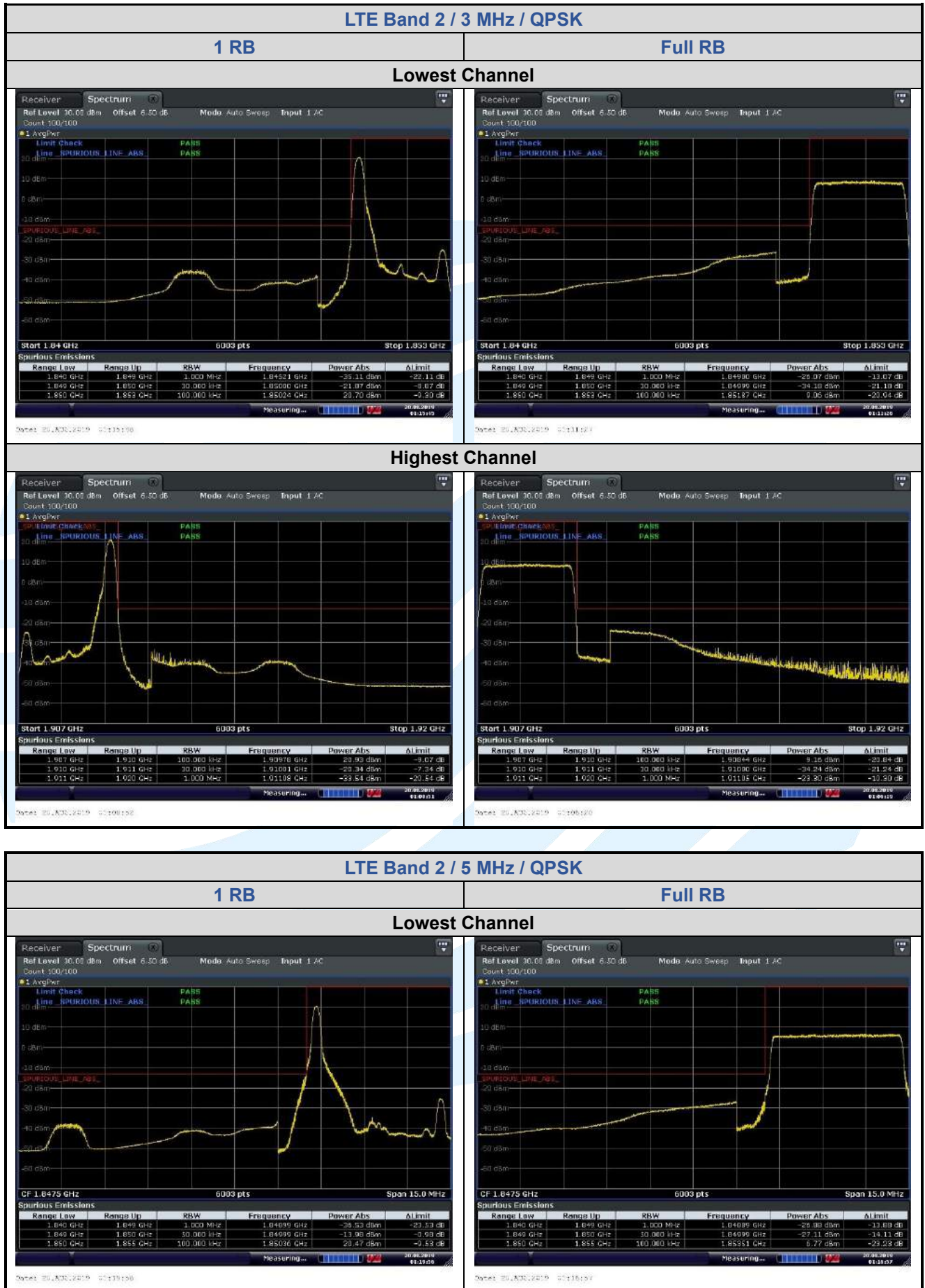
E-mail: info@uttlab.com

[Http://www.uttlab.com](http://www.uttlab.com)

Test Mode: Link mode
Test Results: Pass

5.6.1 LTE Band 2





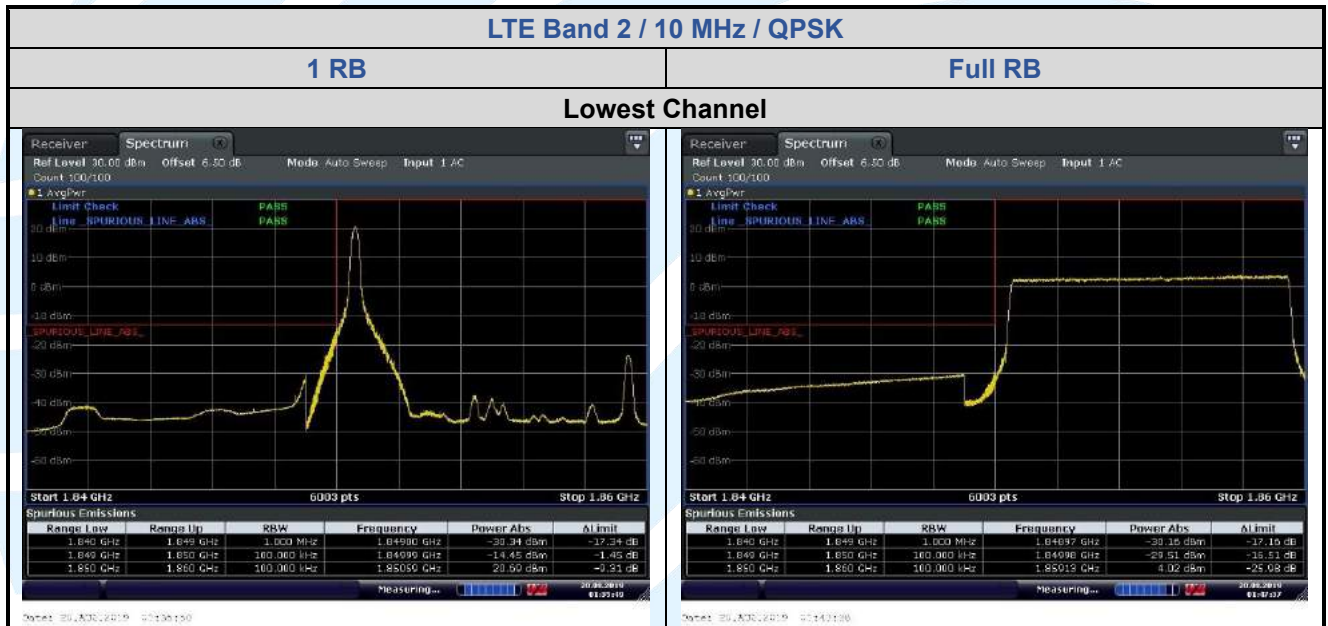
LTE Band 2 / 5 MHz / QPSK

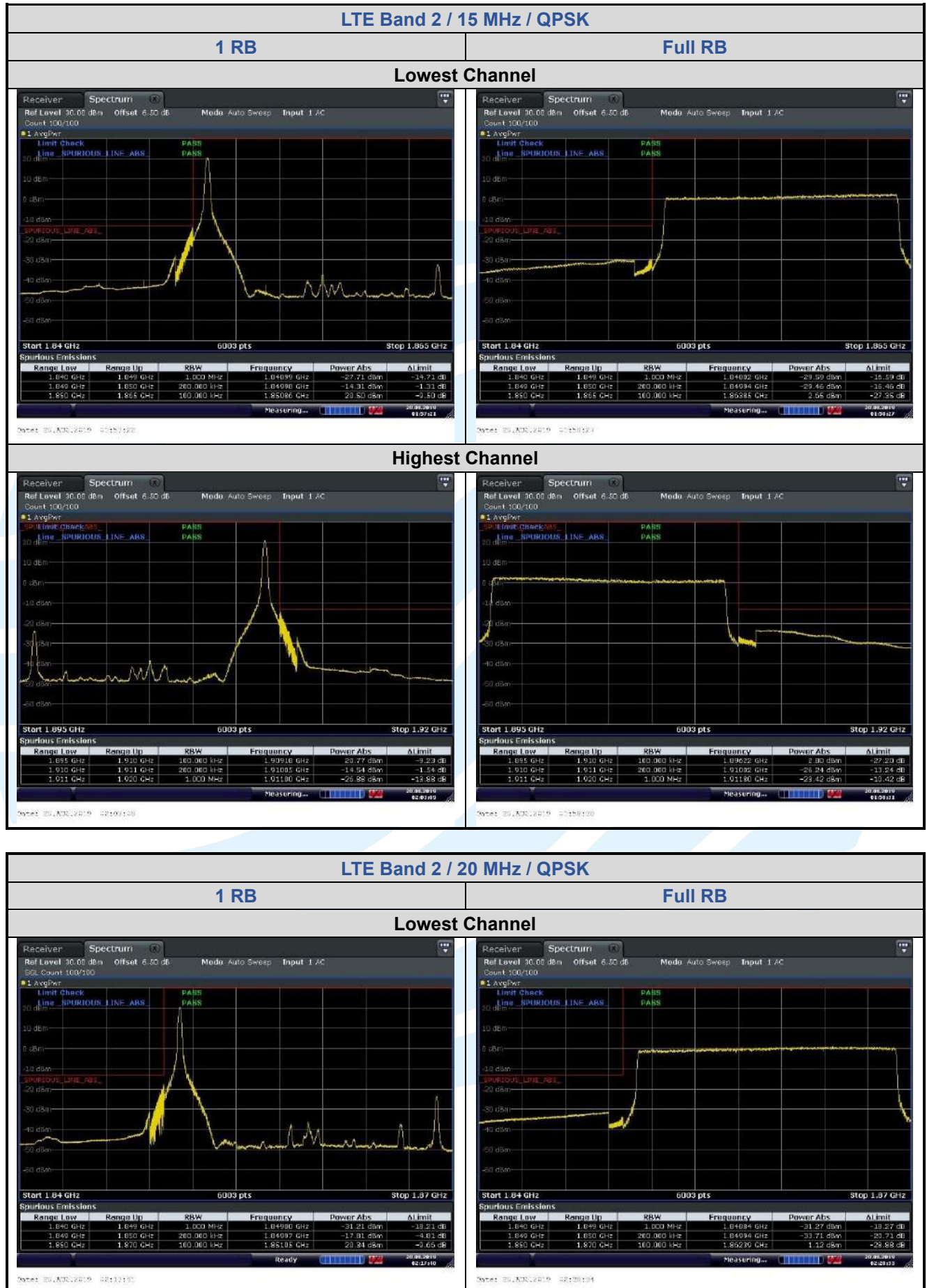
1 RB

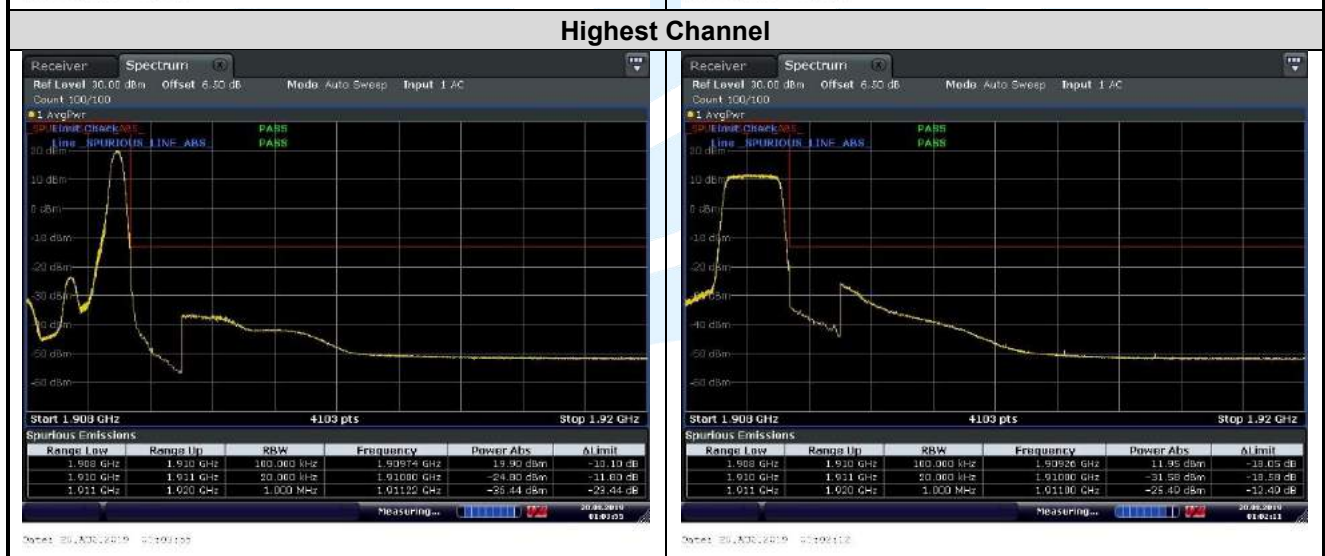
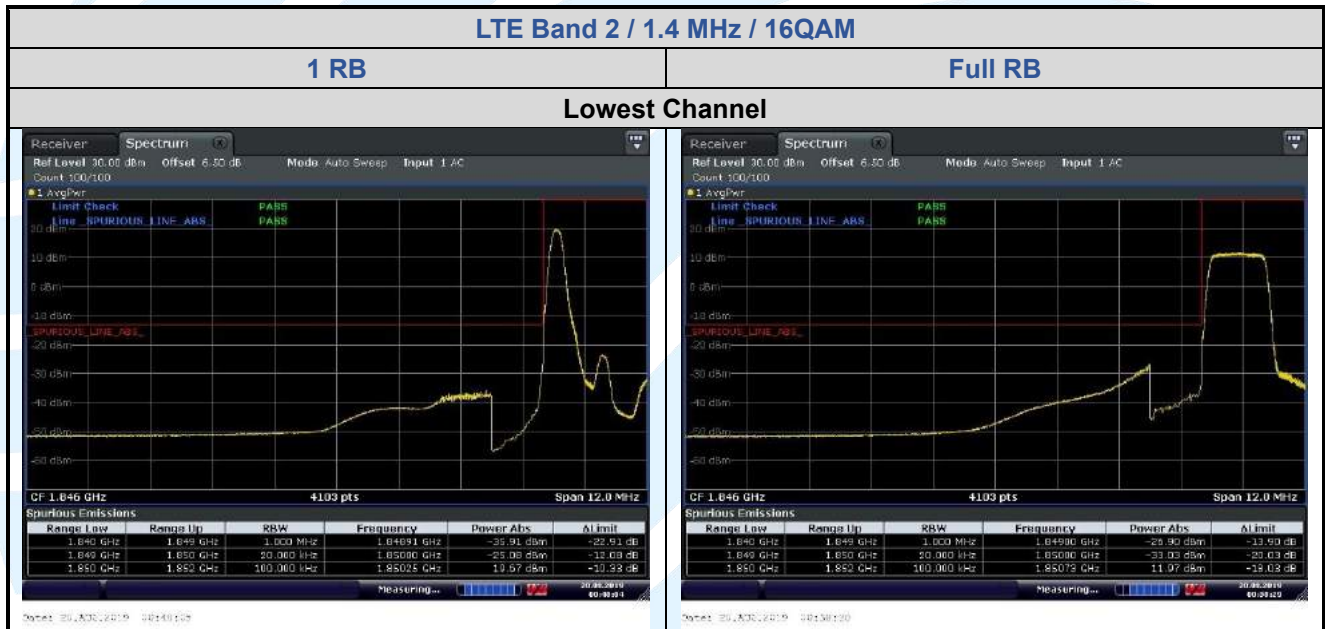
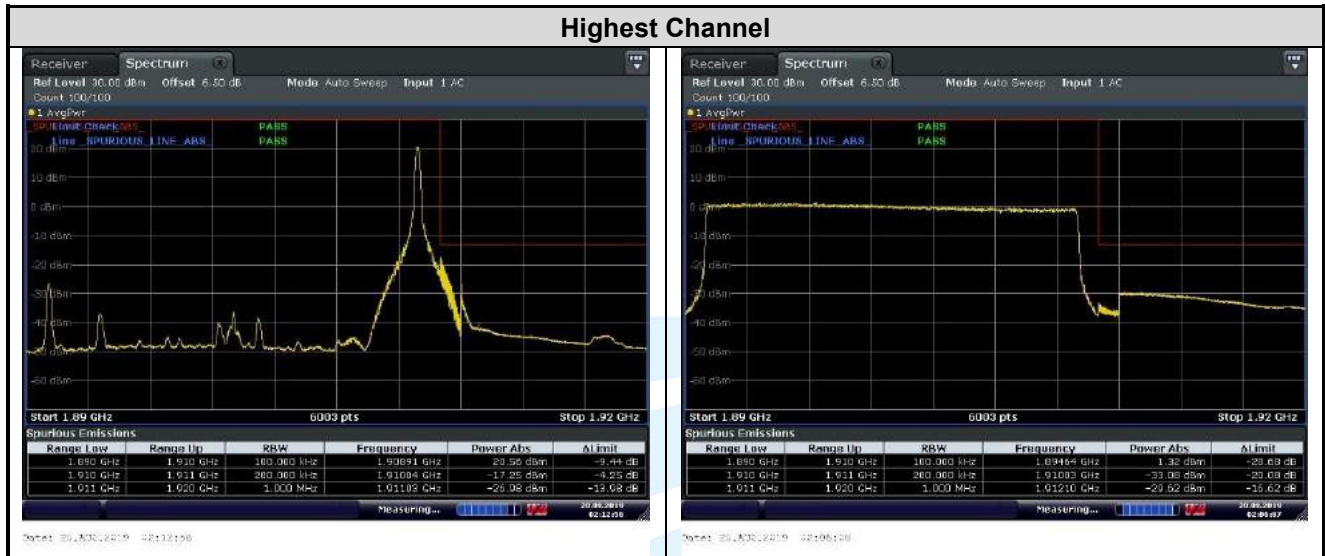
Full RB

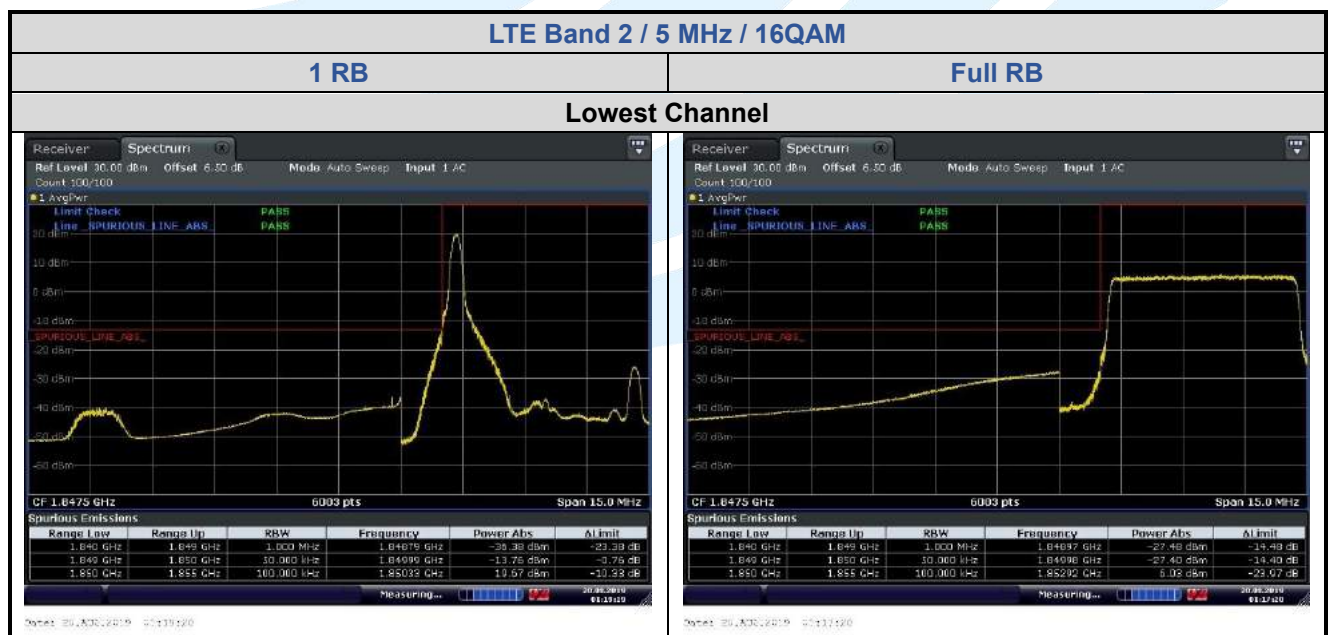
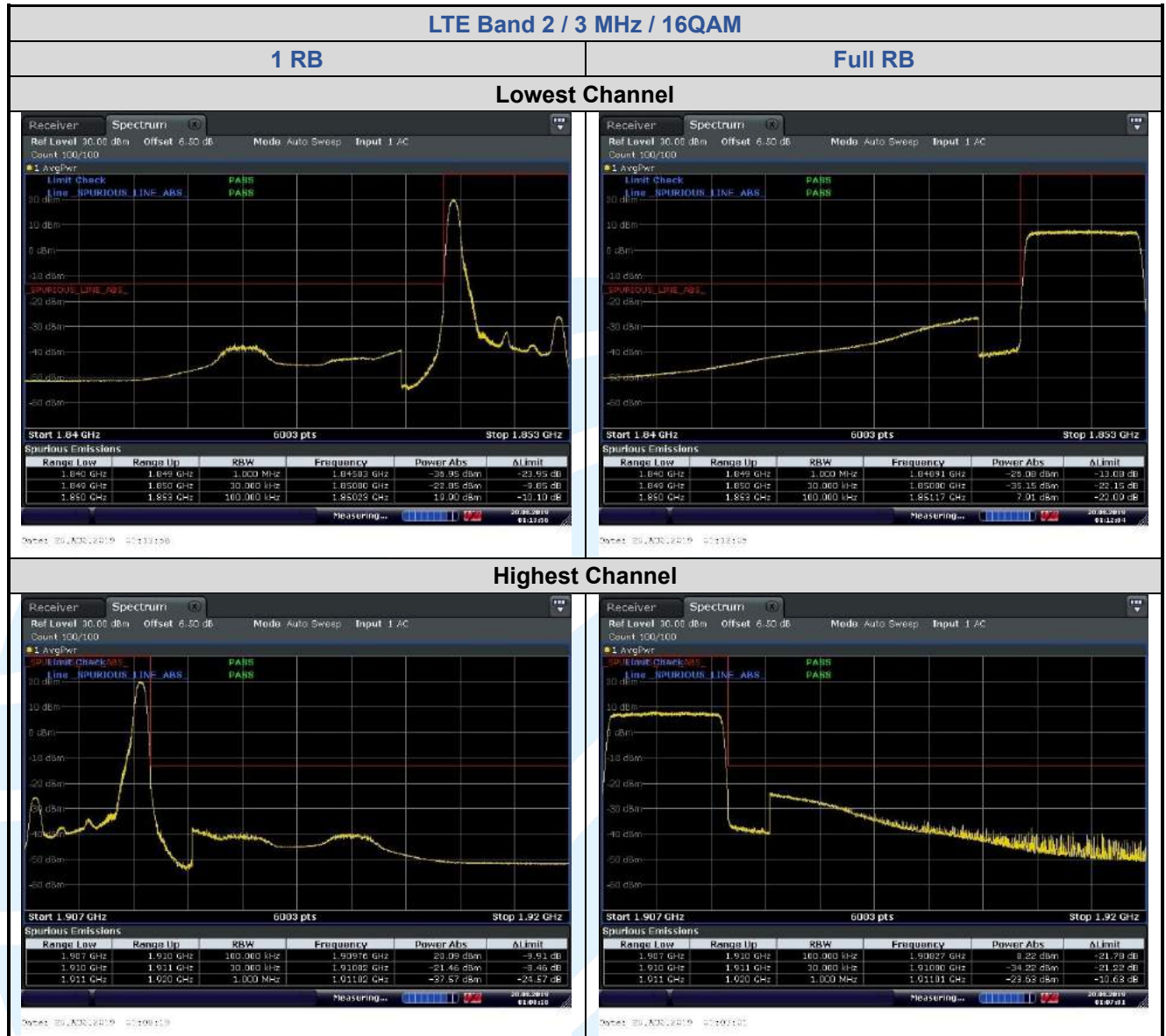
Lowest Channel

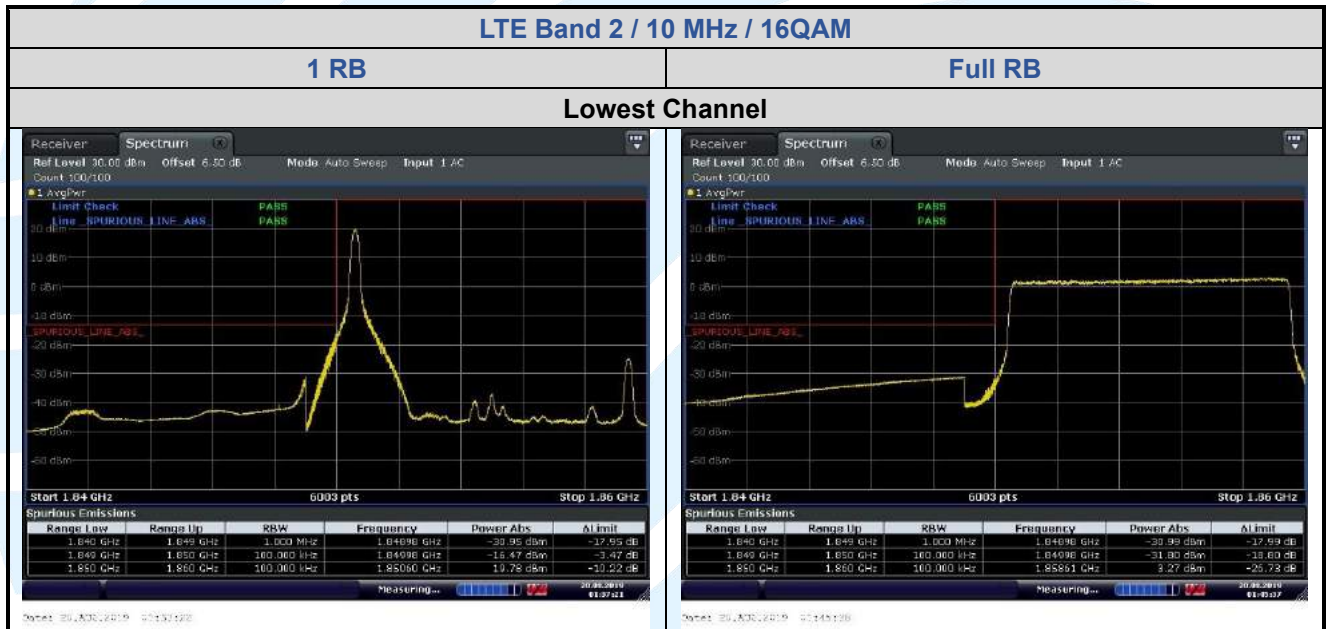


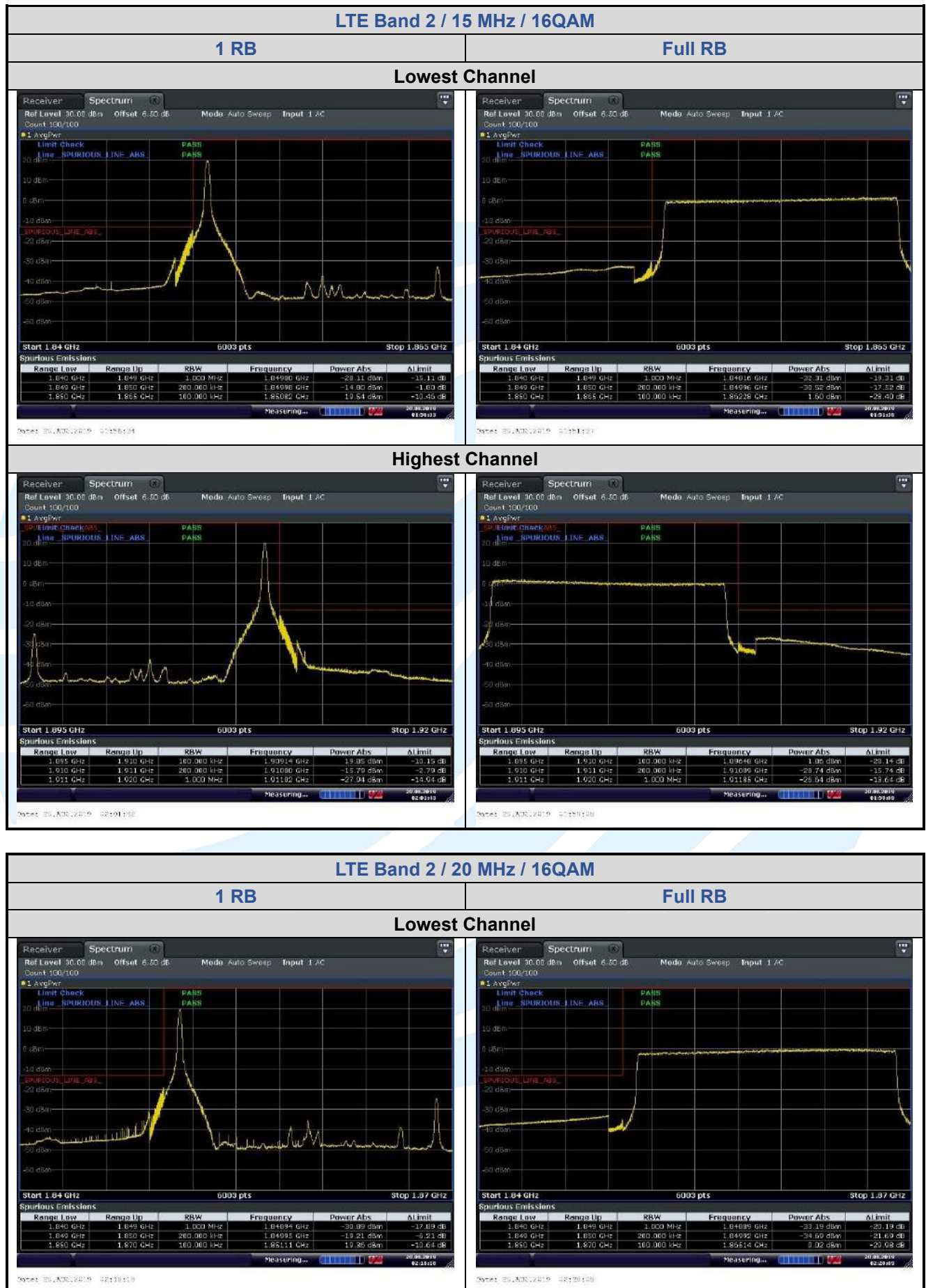


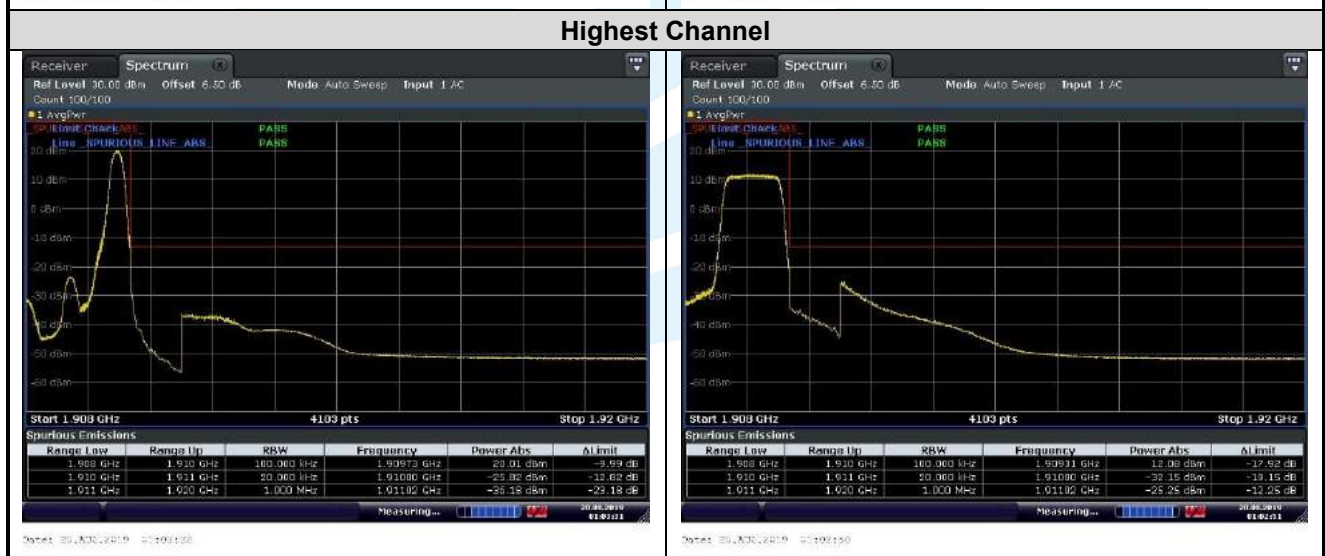
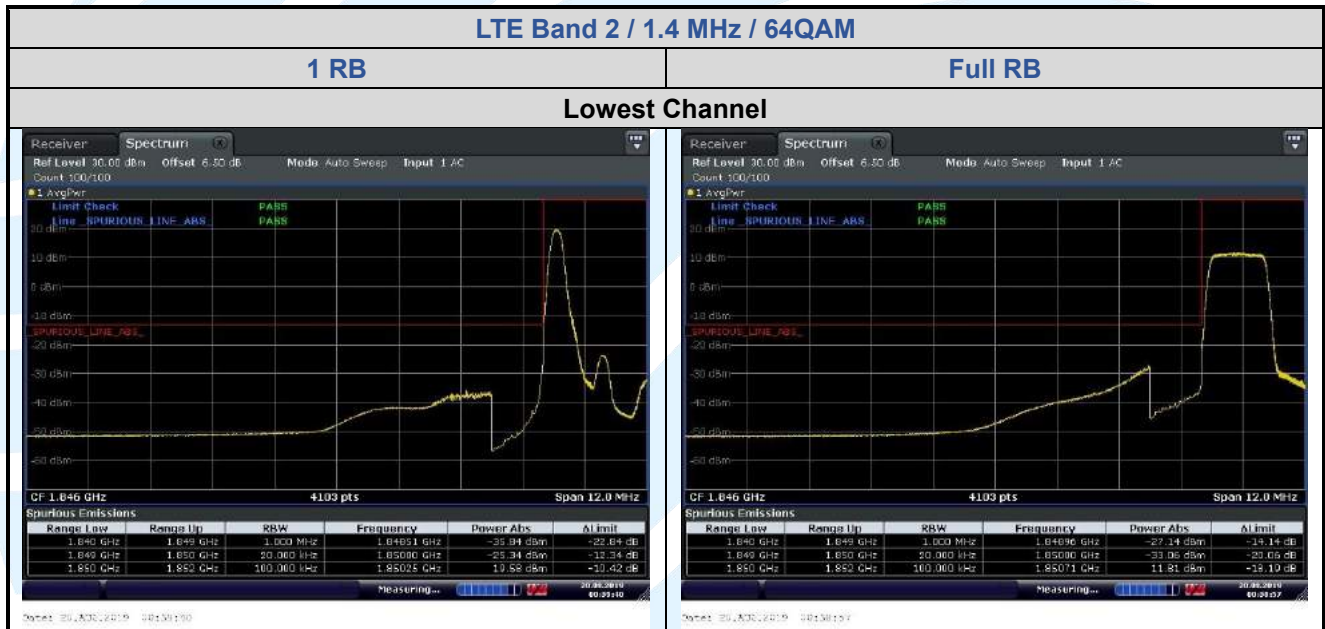
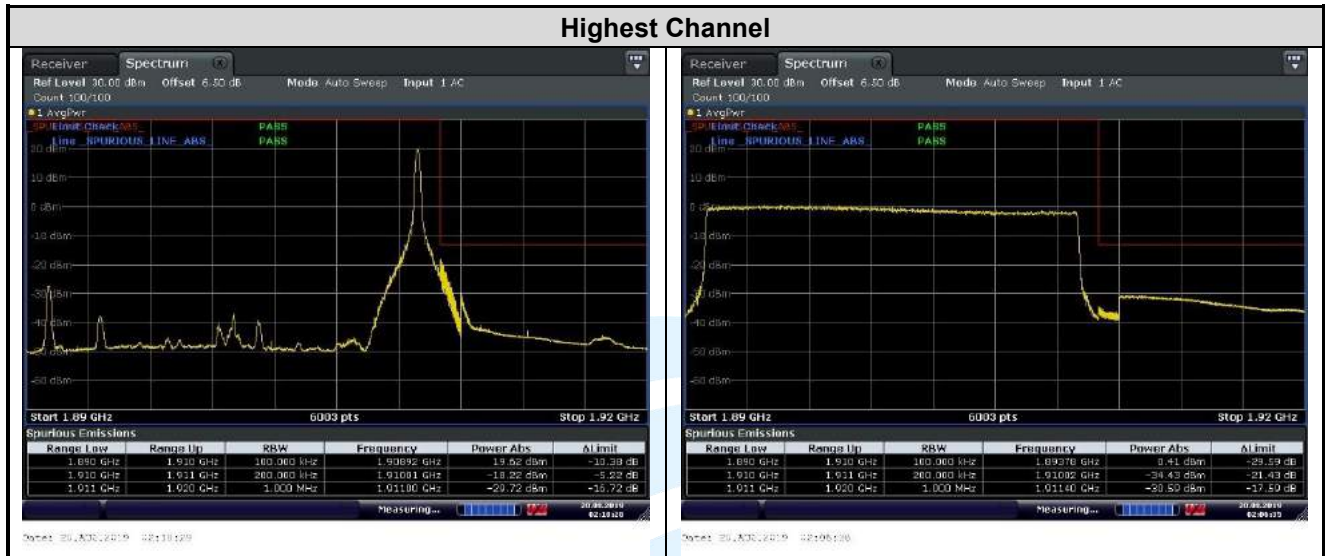


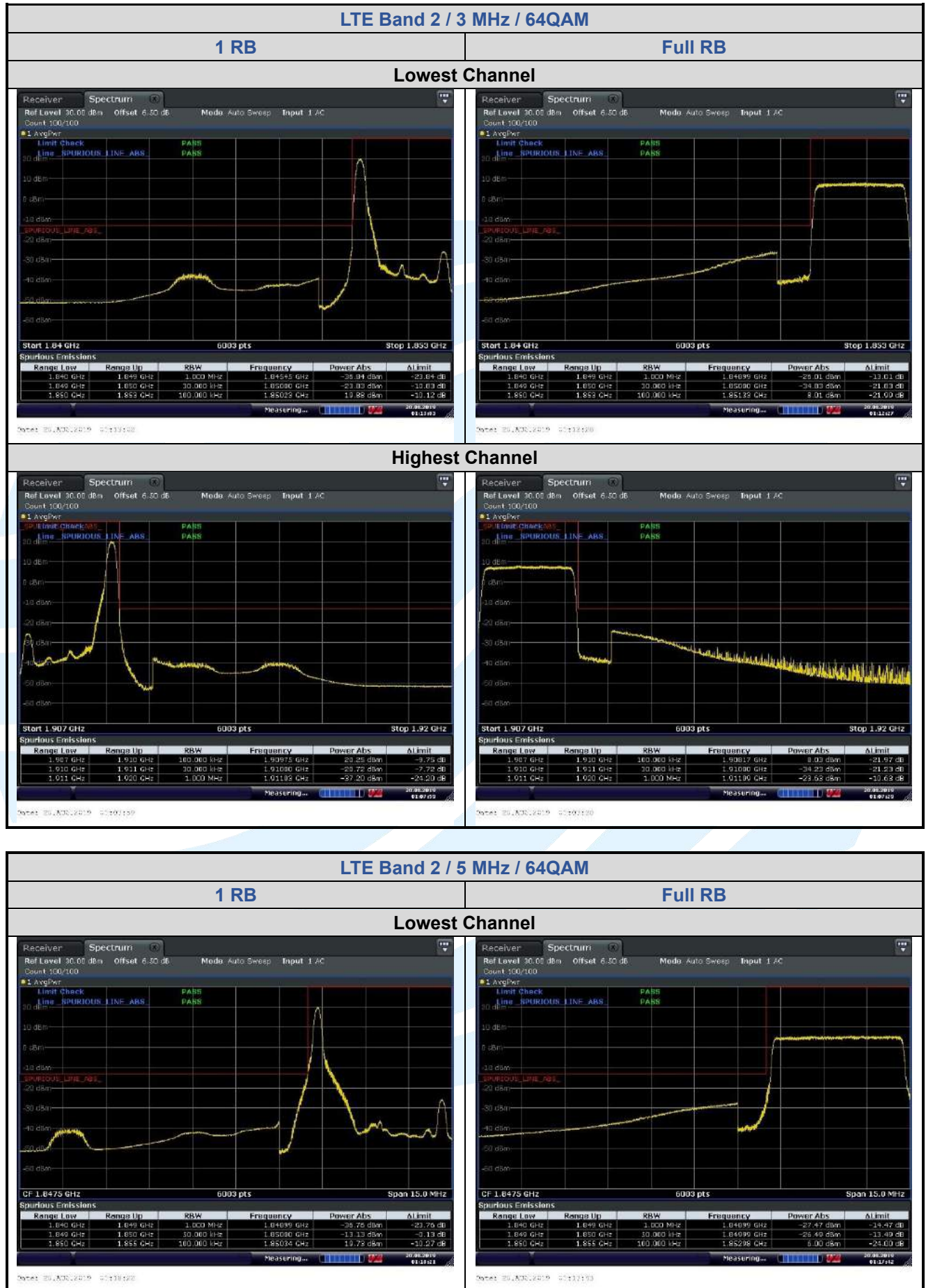


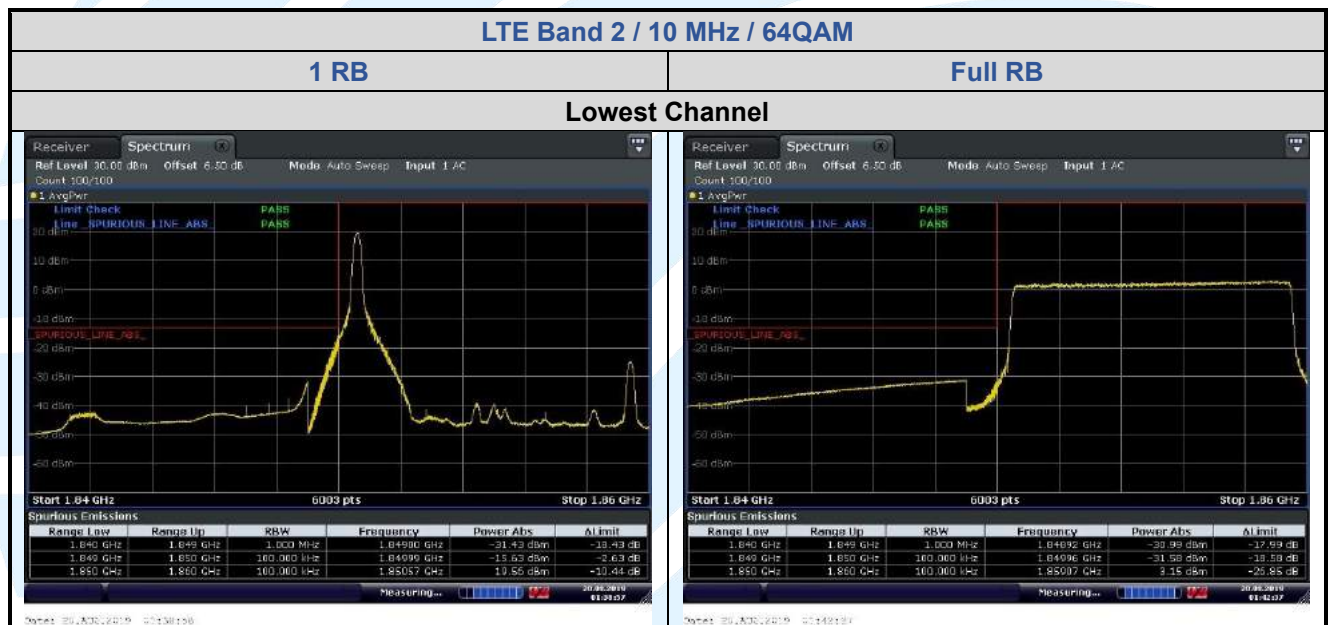


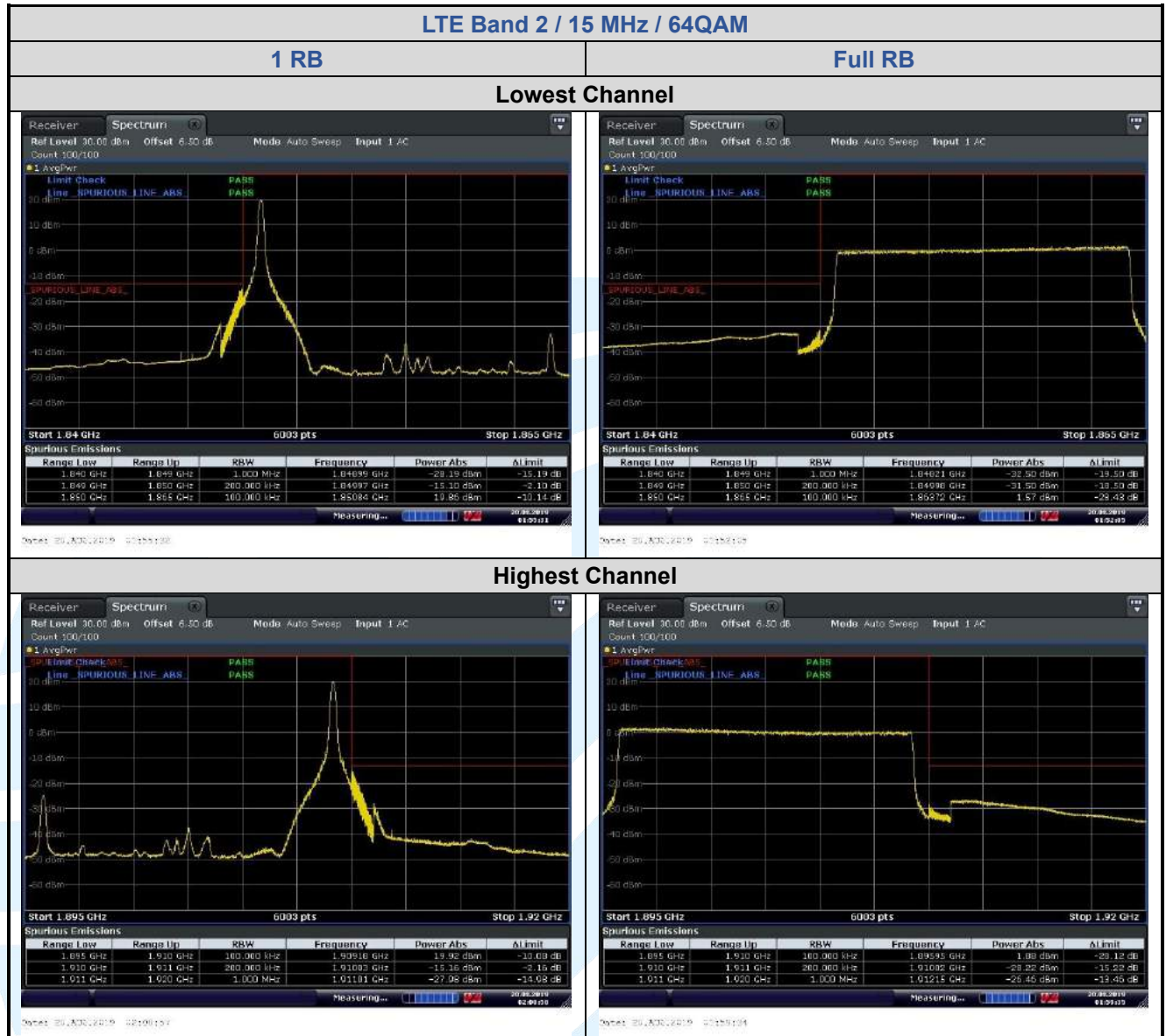


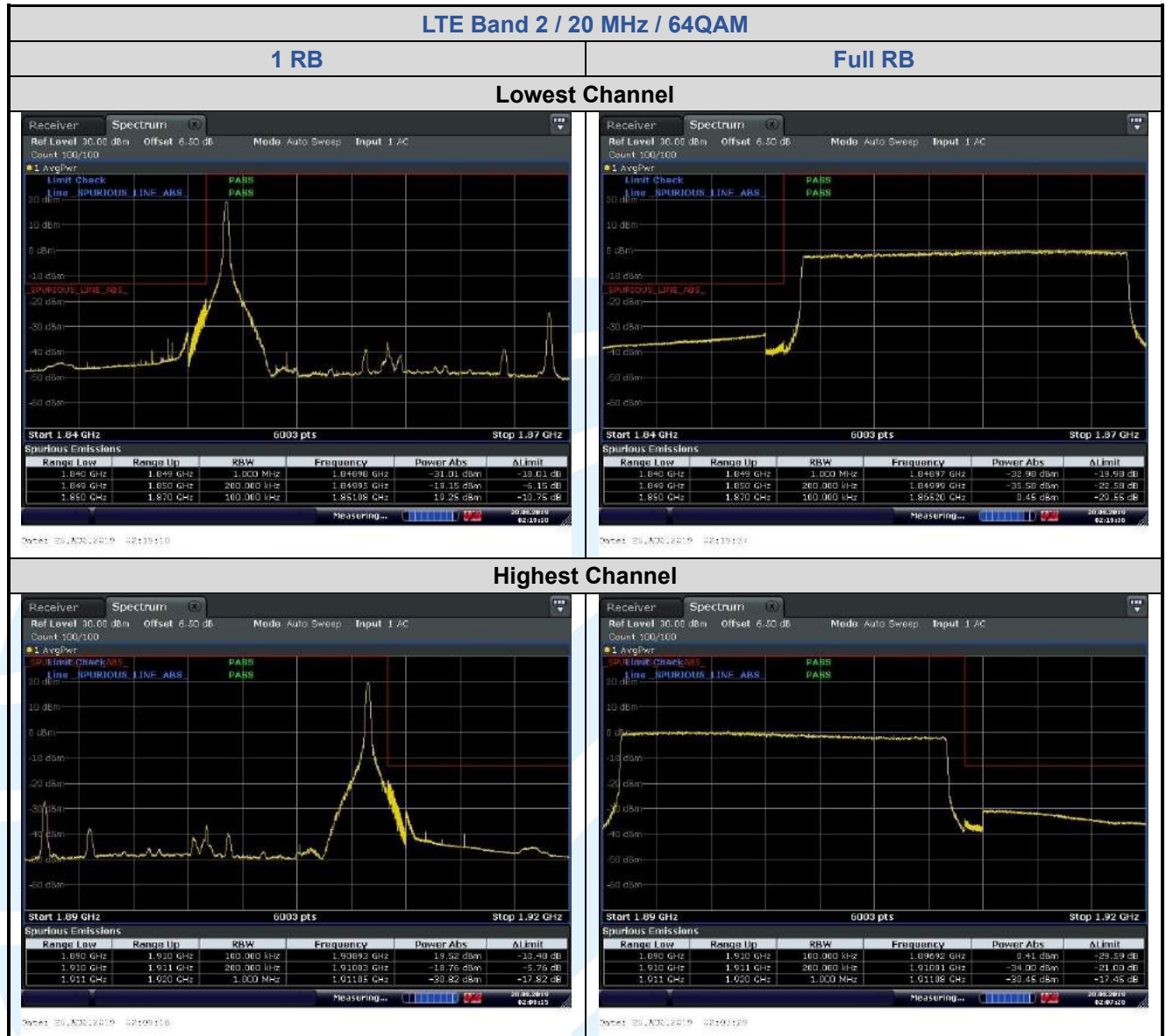












5.6.2 LTE Band 4

