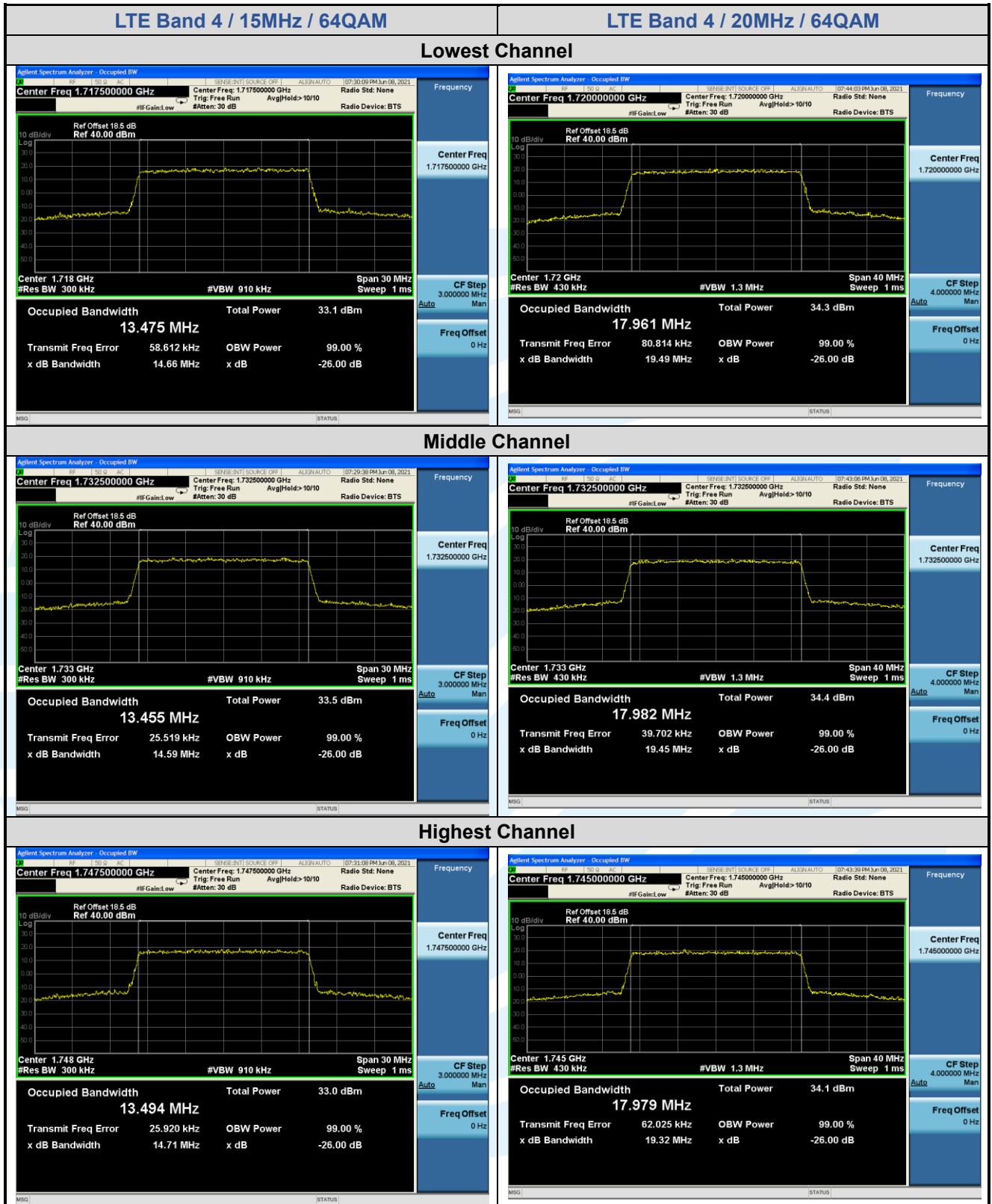
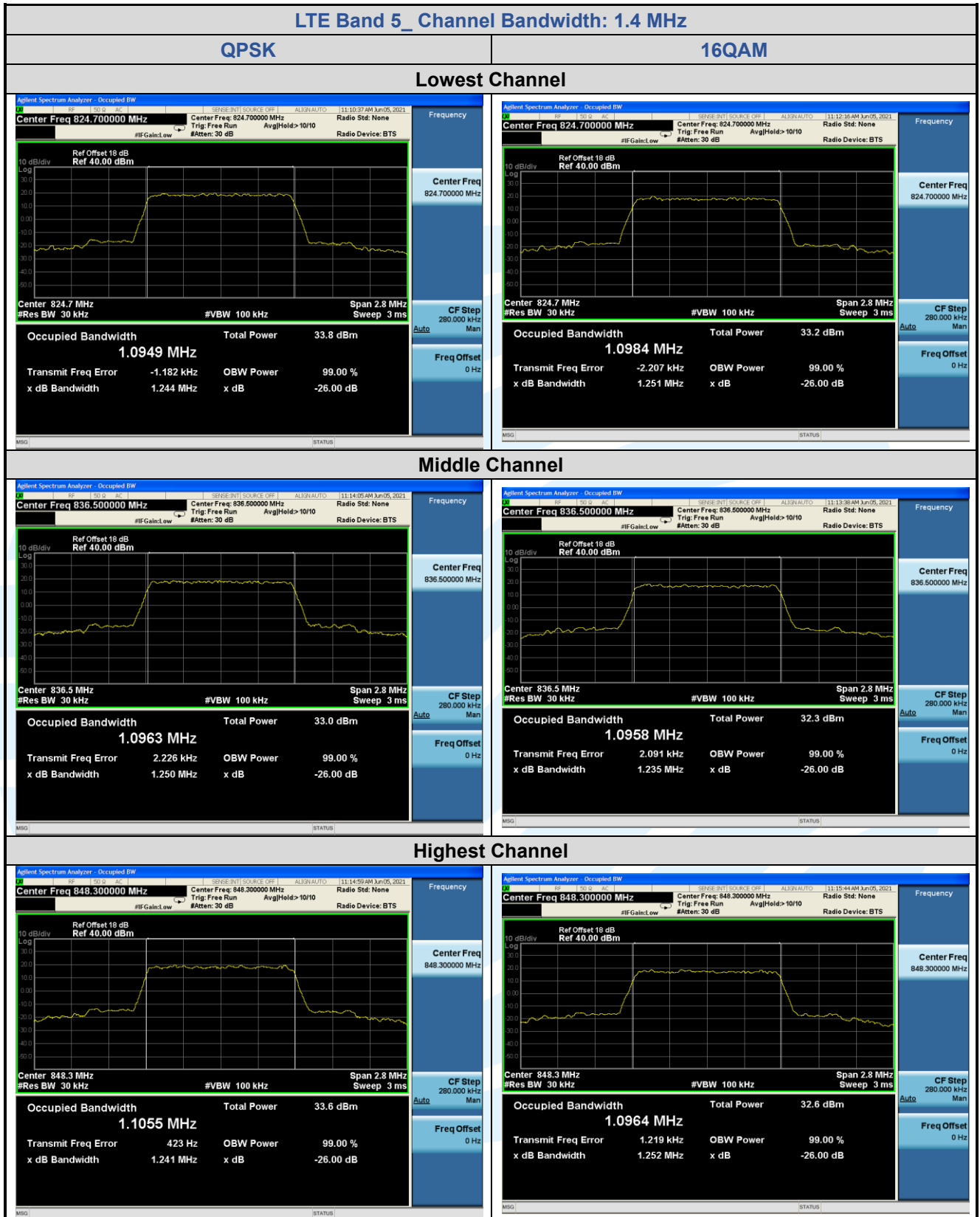
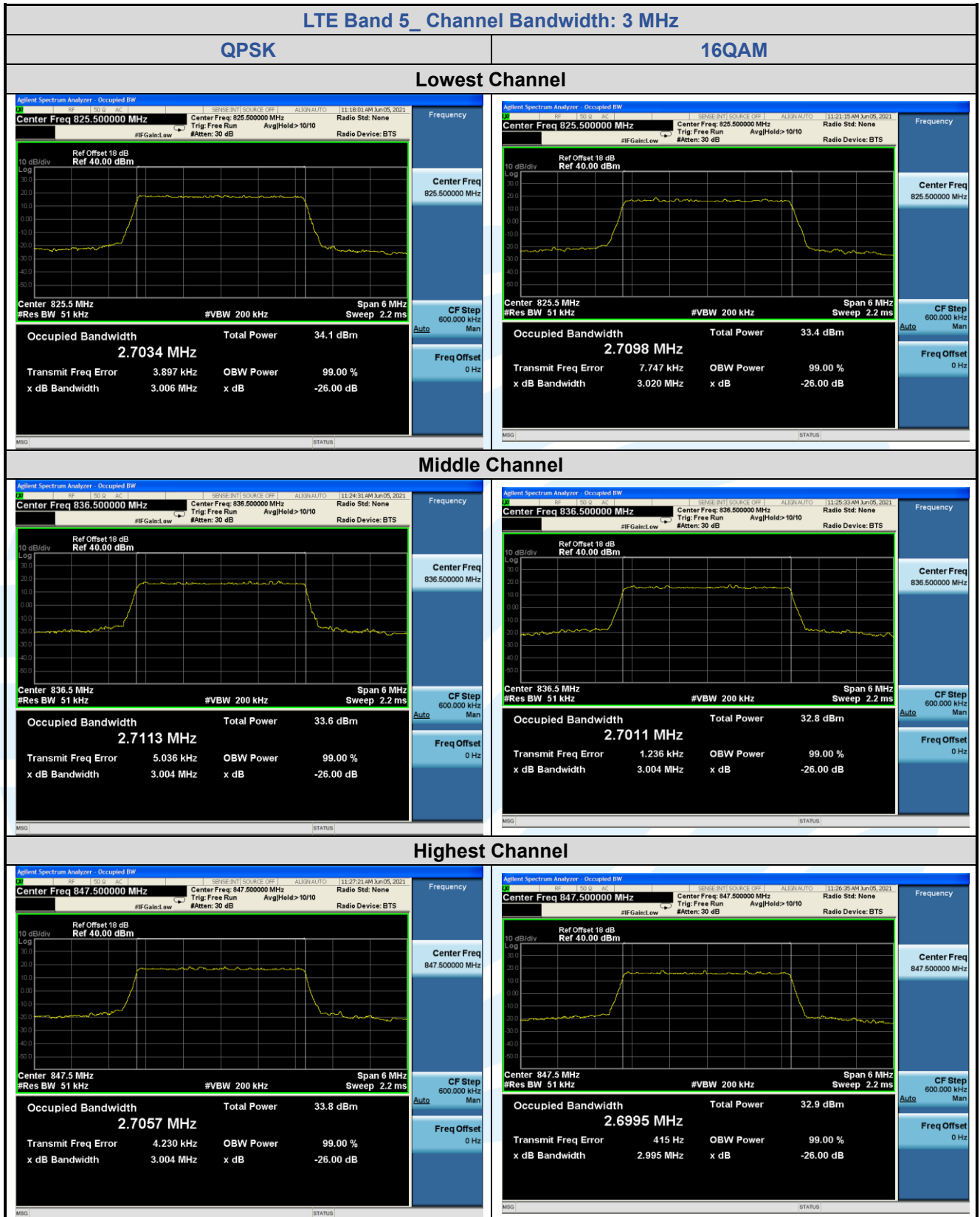


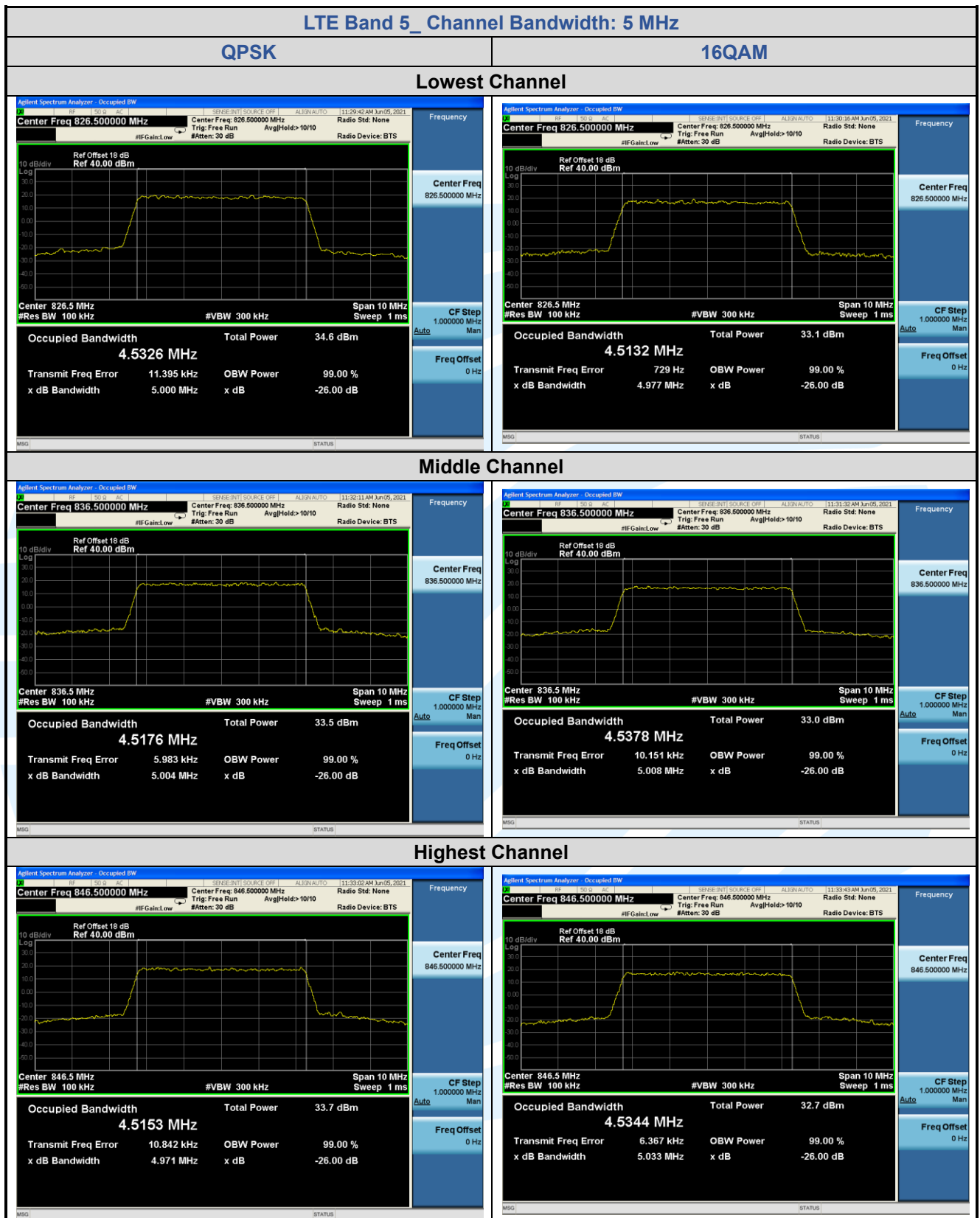


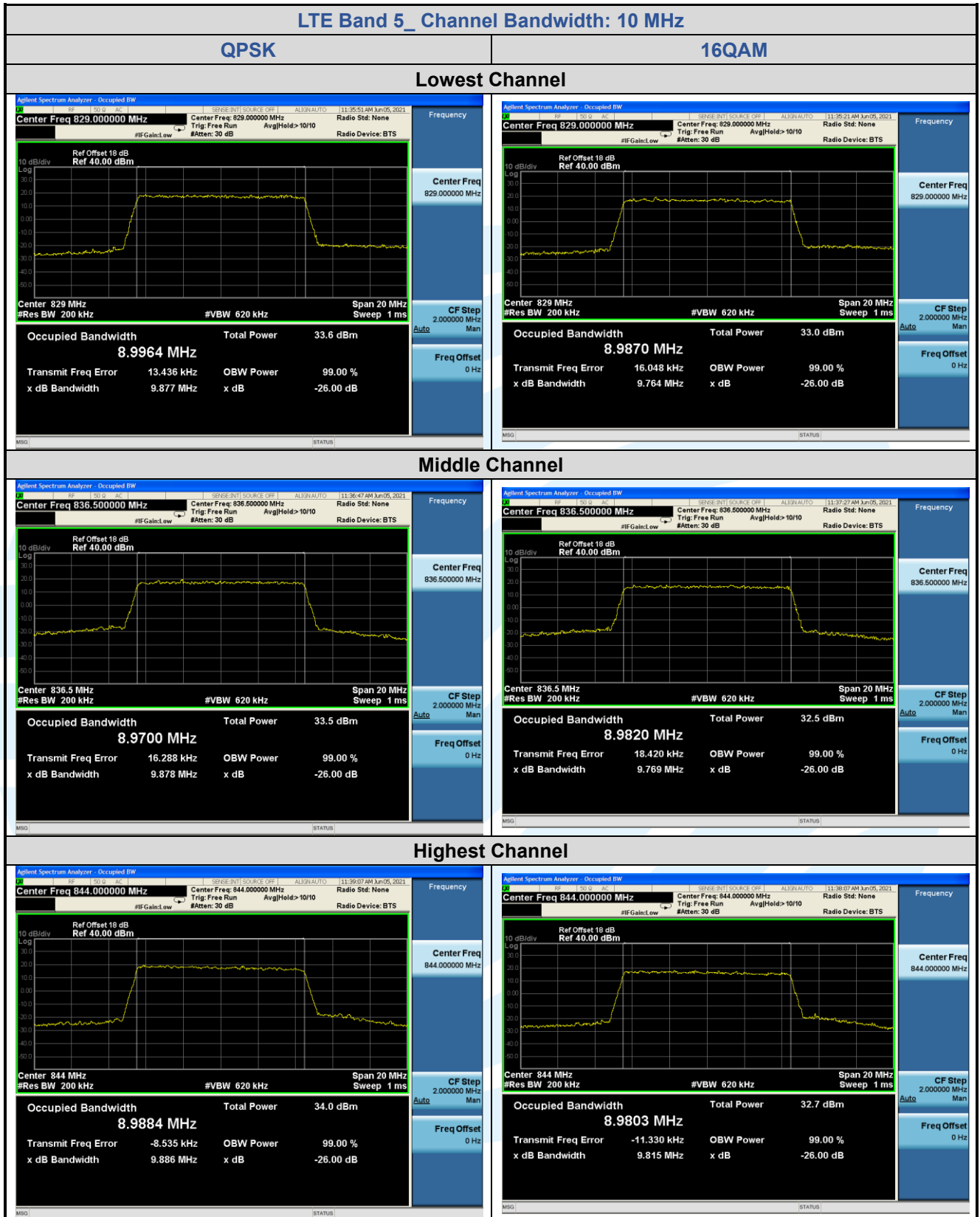
5.5.3 LTE Band 5

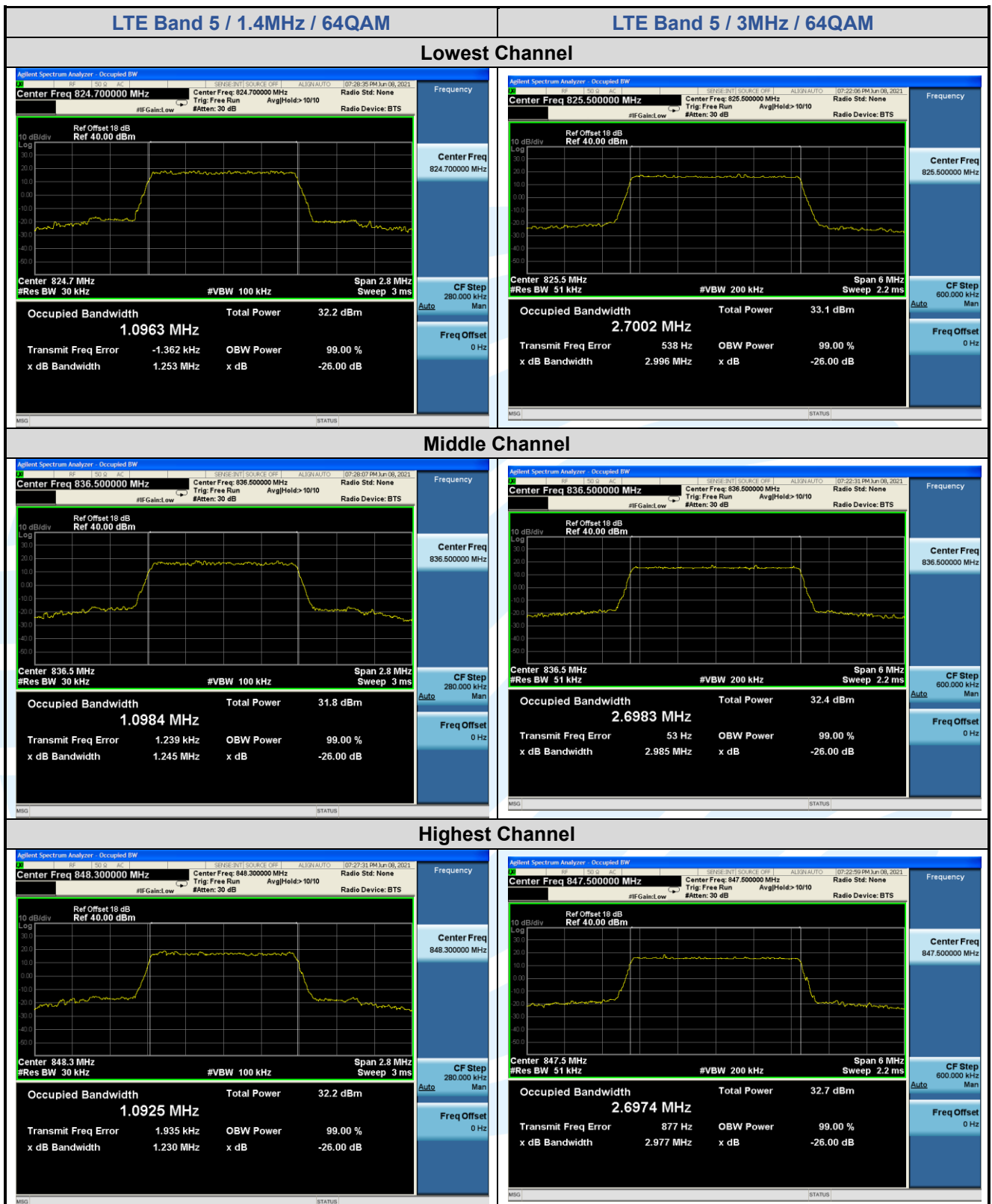
LTE Band 5								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 1.4 MHz								
Lowest	6	0	1.244	1.251	1.253	1.0949	1.0984	1.0963
Middle	6	0	1.250	1.235	1.245	1.0963	1.0958	1.0984
Highest	6	0	1.241	1.252	1.230	1.1055	1.0964	1.0925
Channel Bandwidth: 3 MHz								
Lowest	15	0	3.006	3.020	2.996	2.7034	2.7098	2.7002
Middle	15	0	3.004	3.004	2.985	2.7113	2.7011	2.6983
Highest	15	0	3.004	2.995	2.977	2.7057	2.6995	2.6974
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.000	4.977	4.947	4.5326	4.5132	4.5122
Middle	25	0	5.004	5.008	5.006	4.5176	4.5378	4.5412
Highest	25	0	4.971	5.033	4.966	4.5153	4.5344	4.5296
Channel Bandwidth: 10 MHz								
Lowest	50	0	9.877	9.764	9.804	8.9964	8.9870	8.9948
Middle	50	0	9.878	9.769	9.876	8.9700	8.9820	8.9785
Highest	50	0	9.886	9.815	9.797	8.9884	8.9803	8.9985

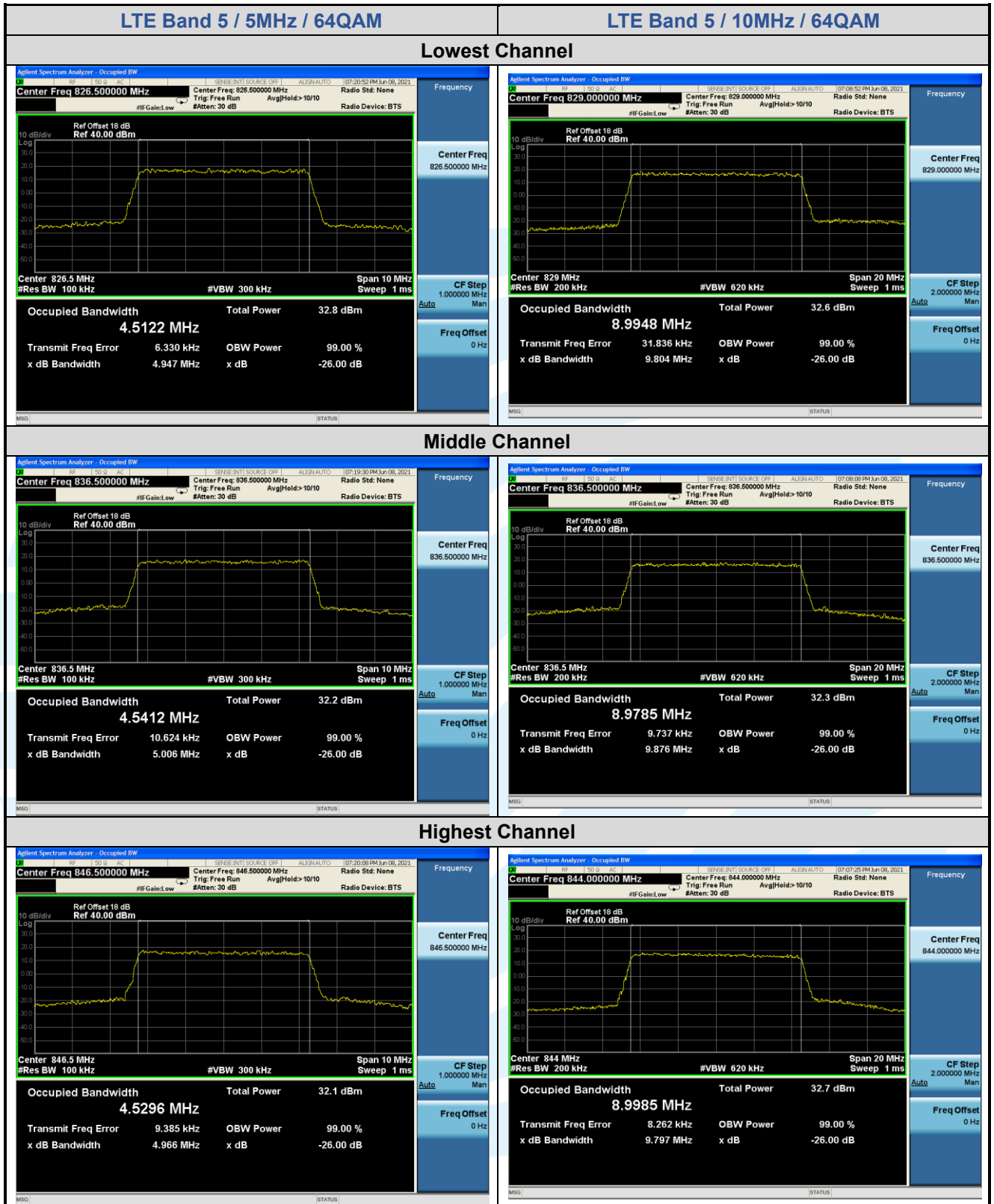










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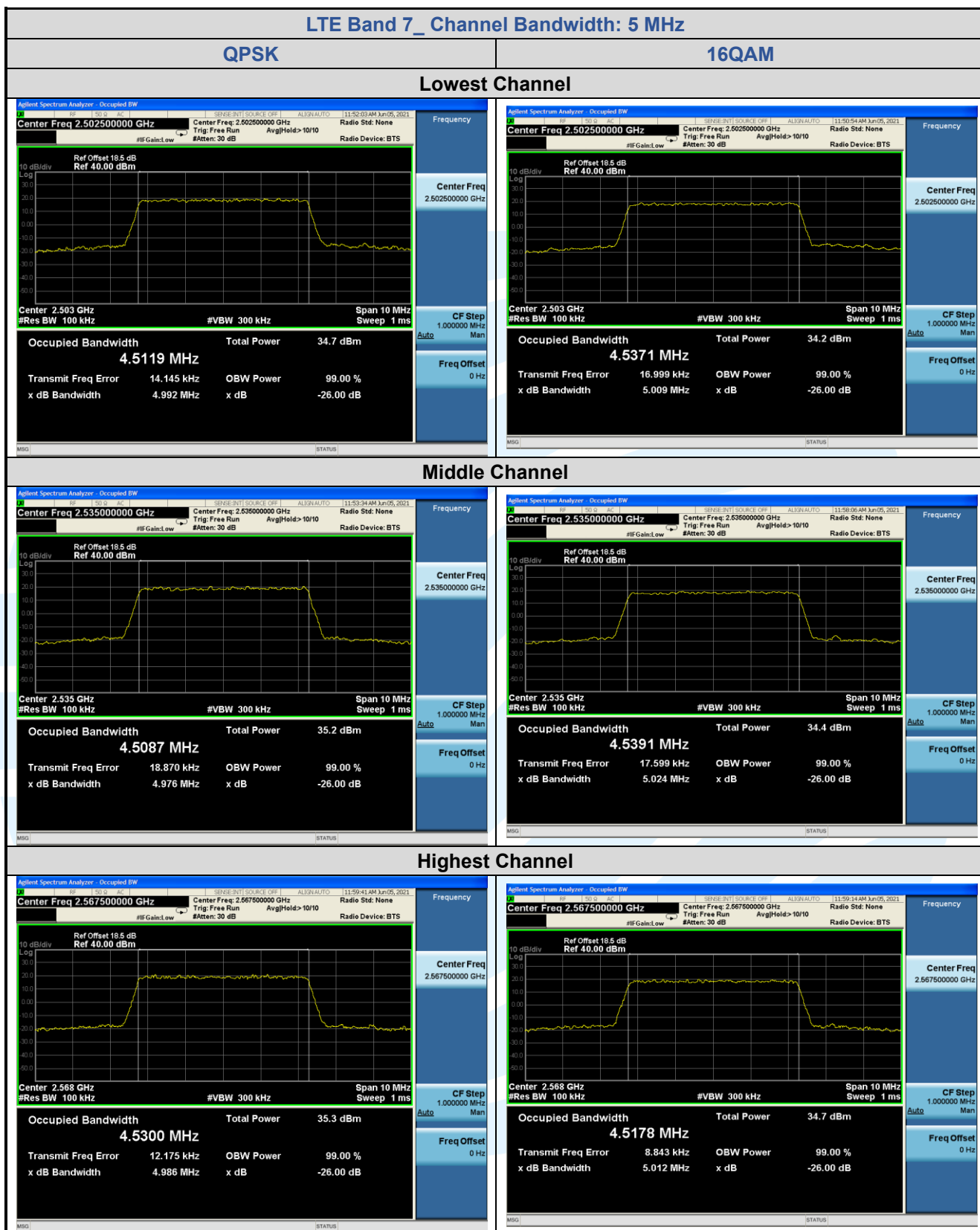
E-mail: info@uttlab.com

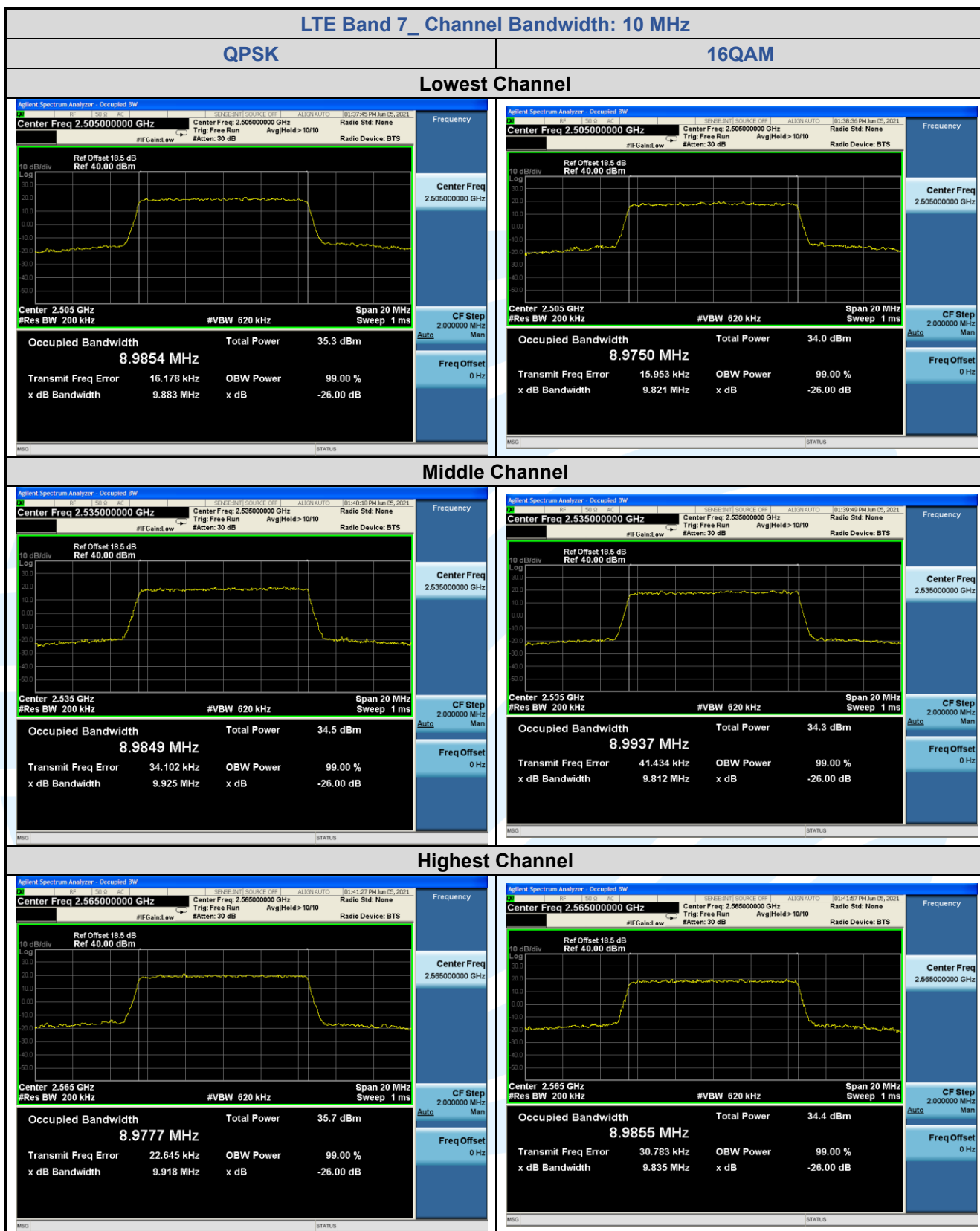
<http://www.uttlab.com>

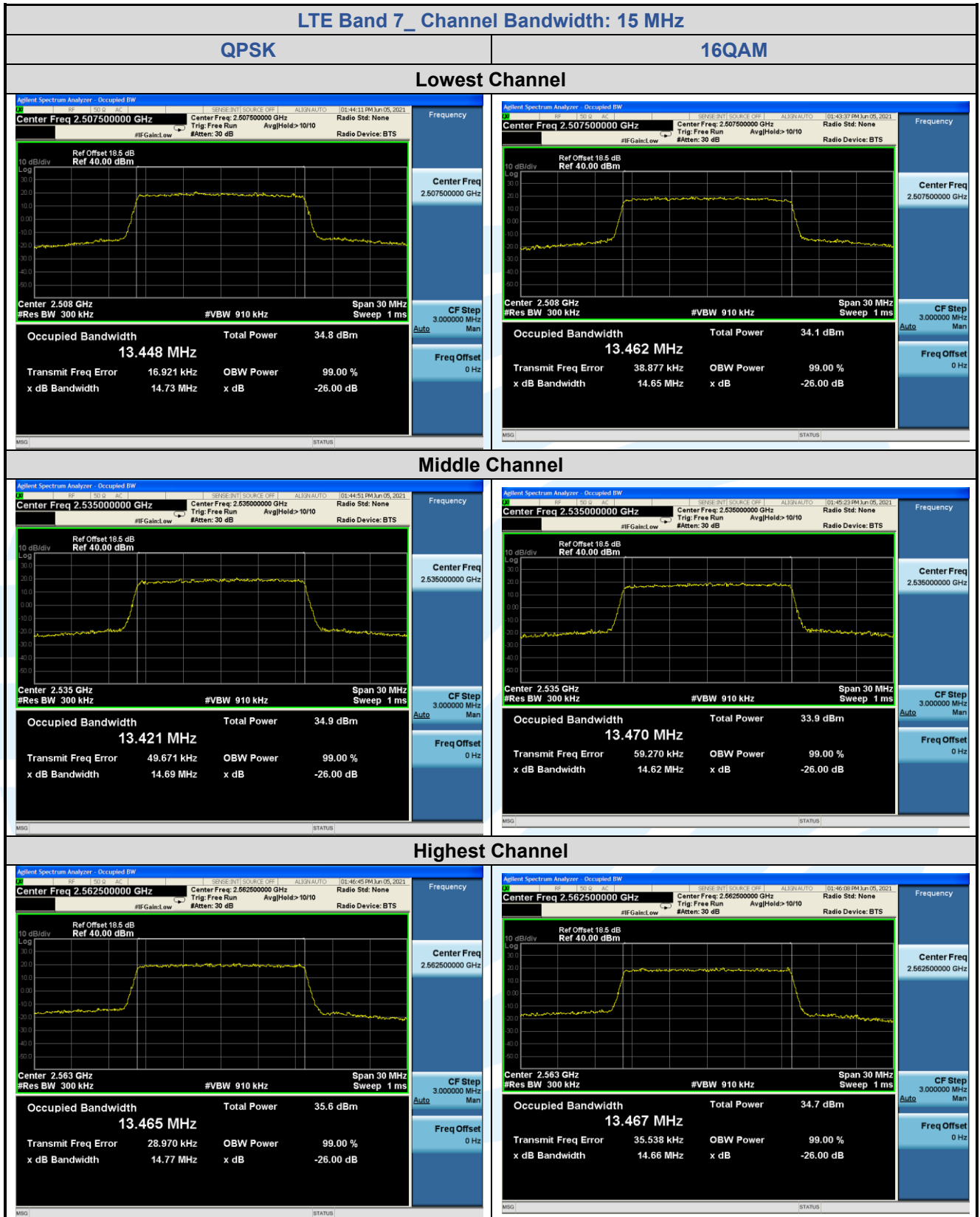
UTTR-RF-FCC4G-V1.1

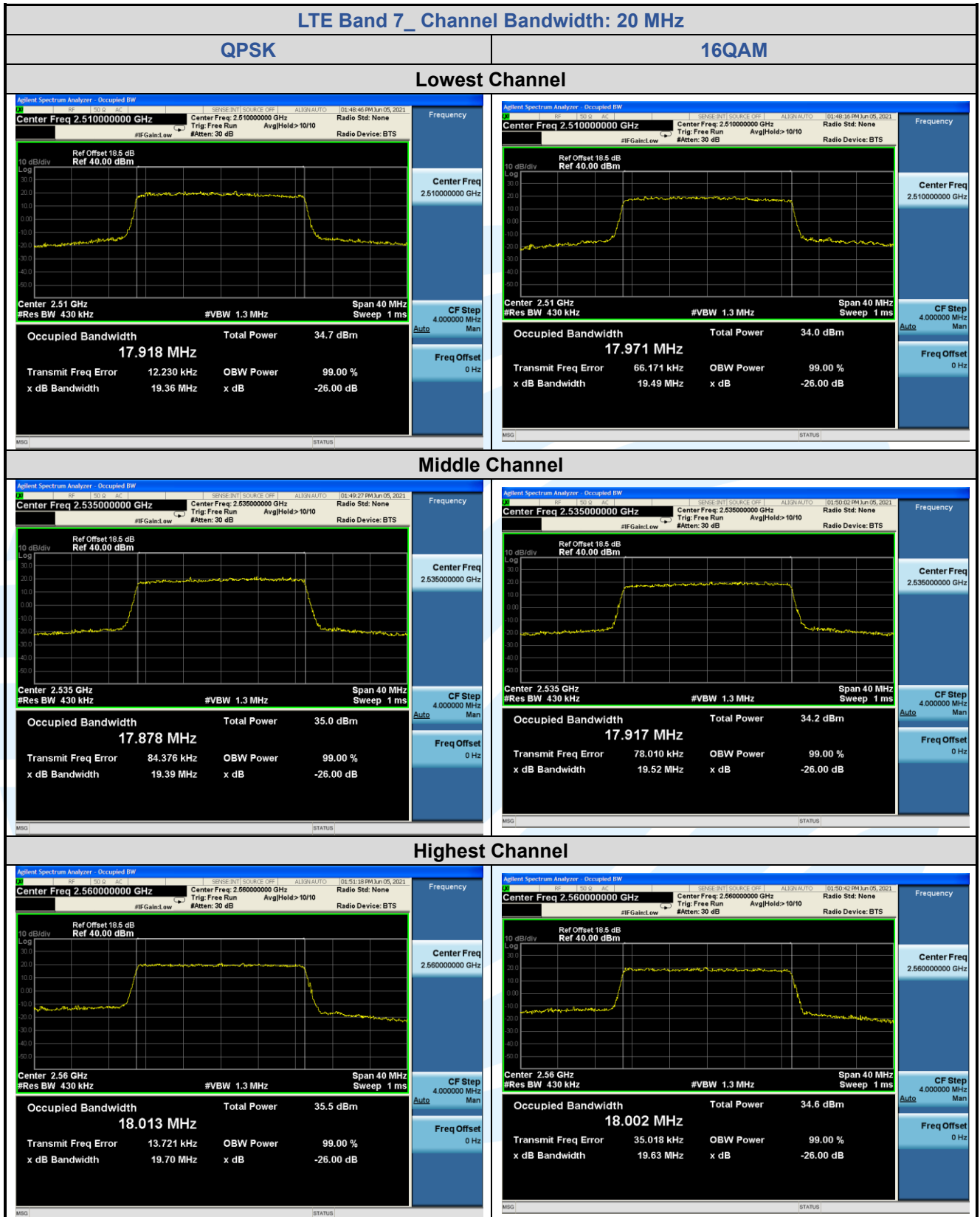
5.5.4 LTE Band 7

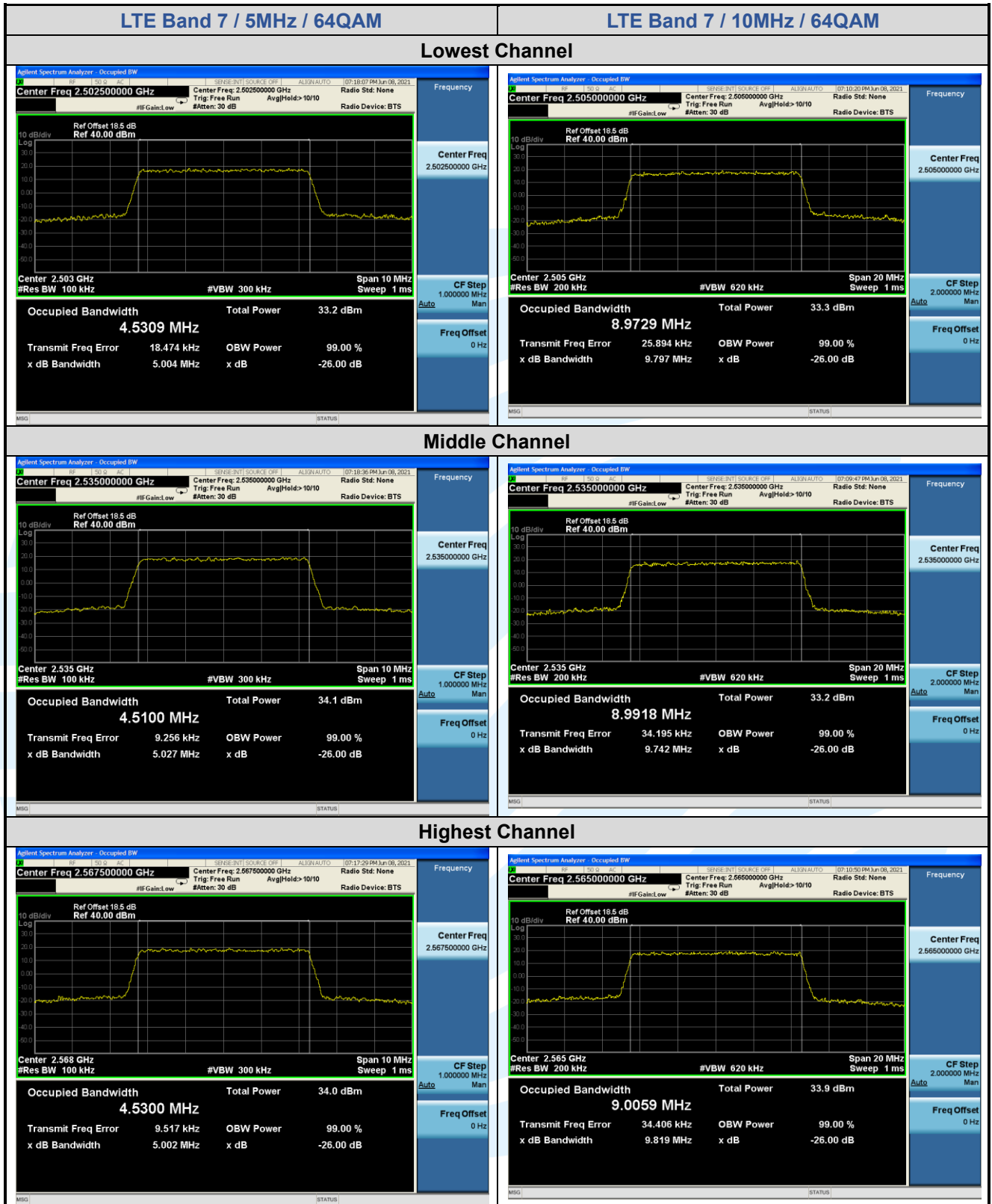
LTE Band 7								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 5 MHz								
Lowest	25	0	4.992	5.009	5.004	4.5119	4.5371	4.5309
Middle	25	0	4.976	5.024	5.027	4.5087	4.5391	4.5100
Highest	25	0	4.986	5.012	5.002	4.5300	4.5178	4.5300
Channel Bandwidth: 10 MHz								
Lowest	50	0	9.883	9.821	9.797	8.9854	8.9750	8.9729
Middle	50	0	9.925	9.812	9.742	8.9849	8.9937	8.9918
Highest	50	0	9.918	9.835	9.819	8.9777	8.9855	9.0059
Channel Bandwidth: 15 MHz								
Lowest	75	0	14.73	14.65	14.64	13.448	13.462	13.455
Middle	75	0	14.69	14.62	14.67	13.421	13.470	13.453
Highest	75	0	14.77	14.66	14.67	13.465	13.467	13.480
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.36	19.49	19.44	17.918	17.971	17.934
Middle	100	0	19.39	19.52	19.34	17.878	17.917	17.926
Highest	100	0	19.70	19.63	19.58	18.013	18.002	17.995









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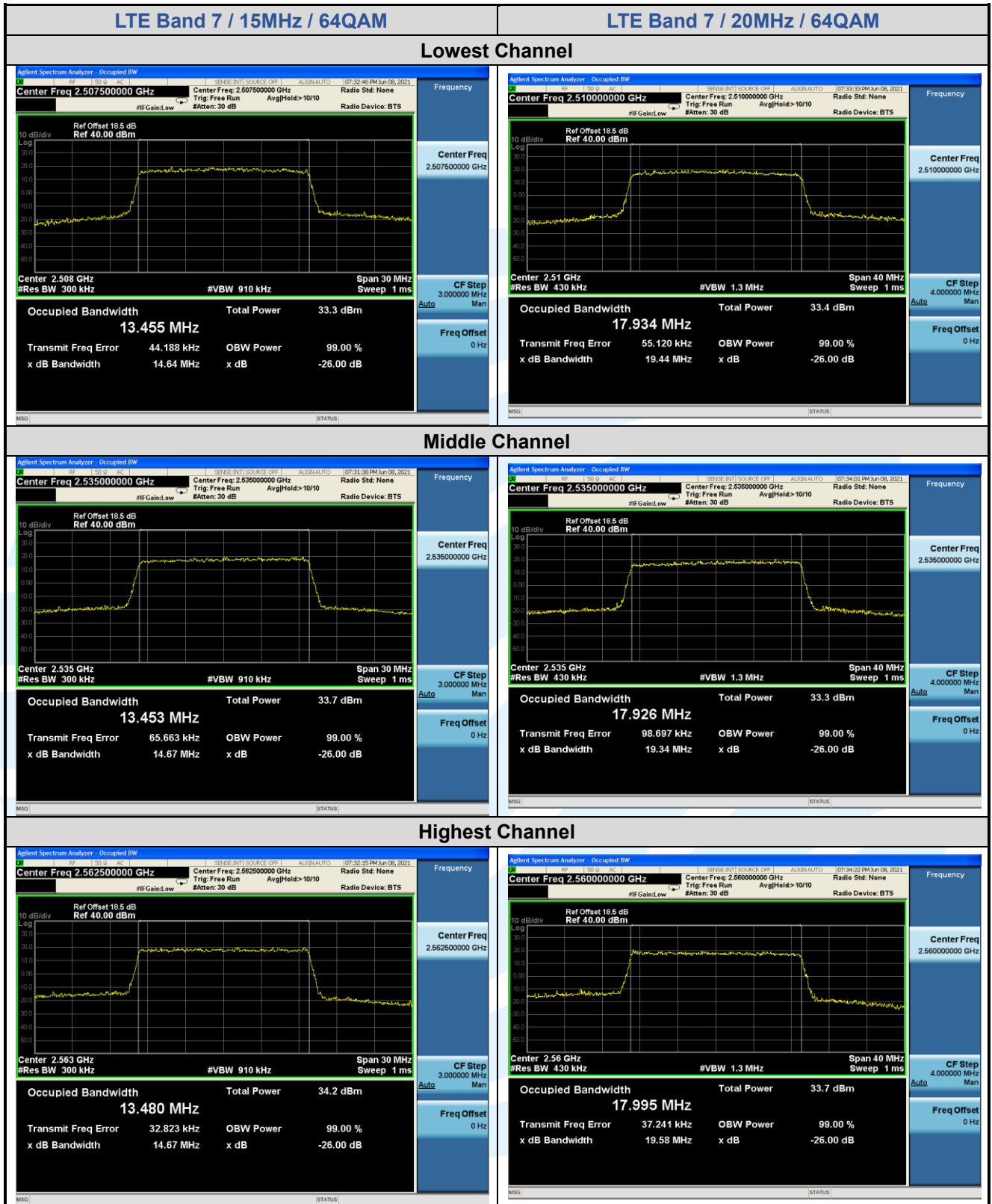
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5.6 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: LTE Band 2: FCC 47 CFR Part 24.238(a)
LTE Band 4: FCC 47 CFR Part 27.53(h)(1)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 7: FCC 47 CFR Part 27.53(m)(4)
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.

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

Test Mode: Link mode

Test Results: Pass