

**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

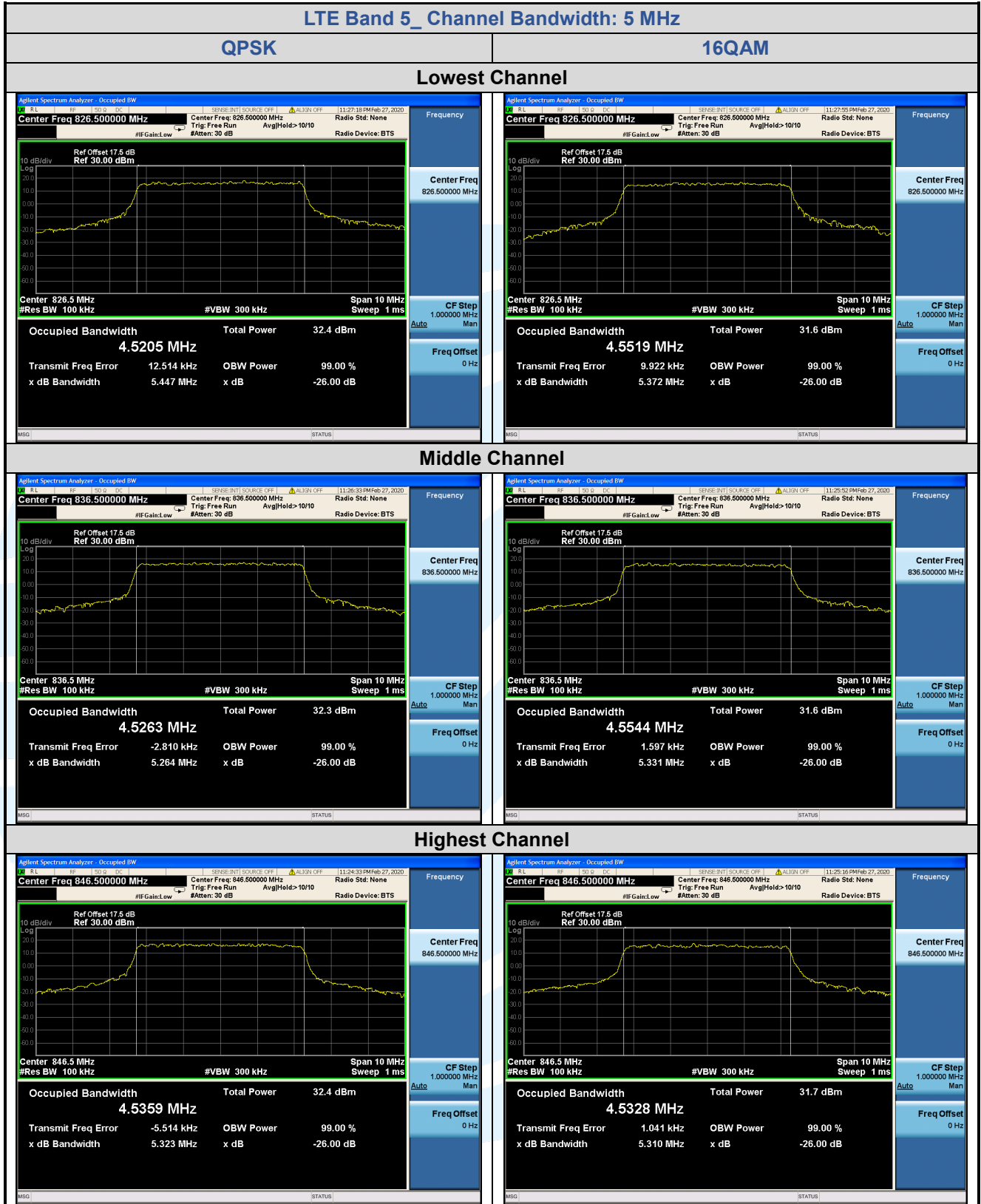
Tel: +86-755-28230888

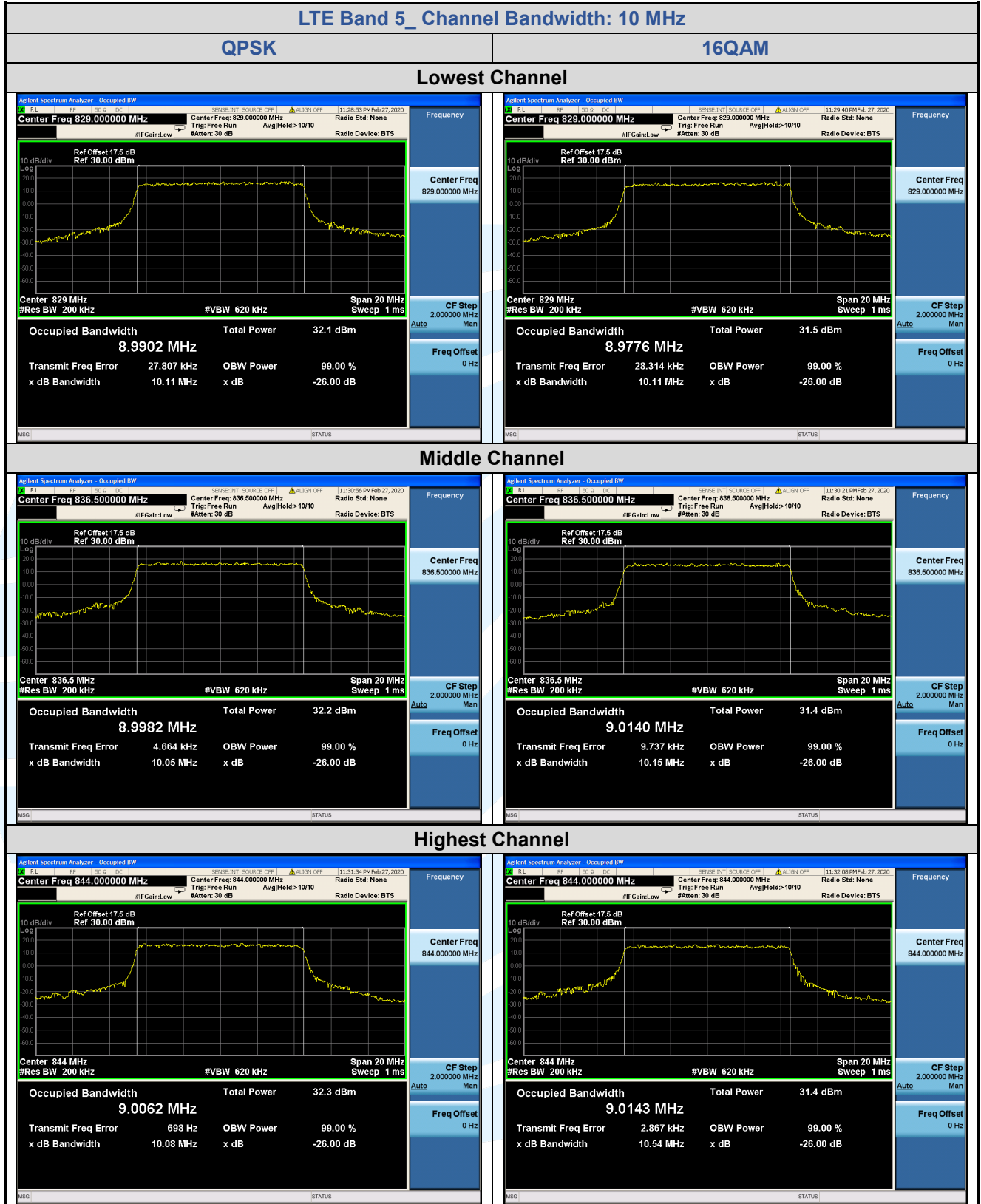
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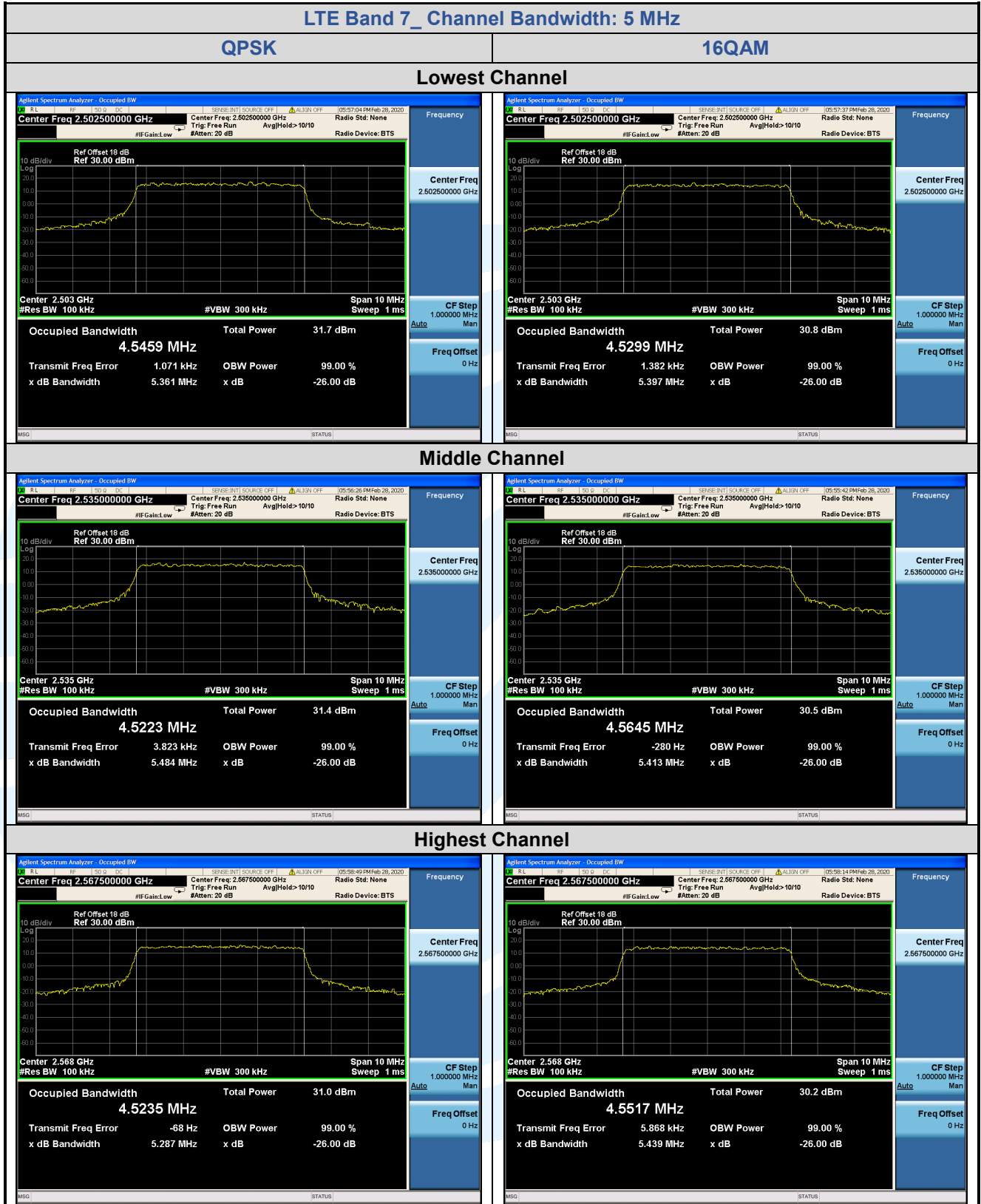
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**5.5.4 LTE Band 7**

LTE Band 7								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
<b>Channel Bandwidth: 5 MHz</b>								
Lowest	25	0	5.361	5.397	/	4.5459	4.5299	/
Middle	25	0	5.484	5.413	/	4.5223	4.5645	/
Highest	25	0	5.287	5.439	/	4.5235	4.5517	/
<b>Channel Bandwidth: 10 MHz</b>								
Lowest	50	0	10.20	10.55	/	9.0249	9.0193	/
Middle	50	0	10.05	10.14	/	8.9842	9.0152	/
Highest	50	0	10.05	10.24	/	9.0009	9.0068	/
<b>Channel Bandwidth: 15 MHz</b>								
Lowest	75	0	16.00	15.04	/	13.554	13.524	/
Middle	75	0	15.47	15.07	/	13.502	13.507	/
Highest	75	0	15.17	15.32	/	13.446	13.517	/
<b>Channel Bandwidth: 20 MHz</b>								
Lowest	100	0	20.50	20.59	/	18.083	18.086	/
Middle	100	0	20.23	20.23	/	18.027	18.024	/
Highest	100	0	20.11	20.02	/	18.001	18.079	/



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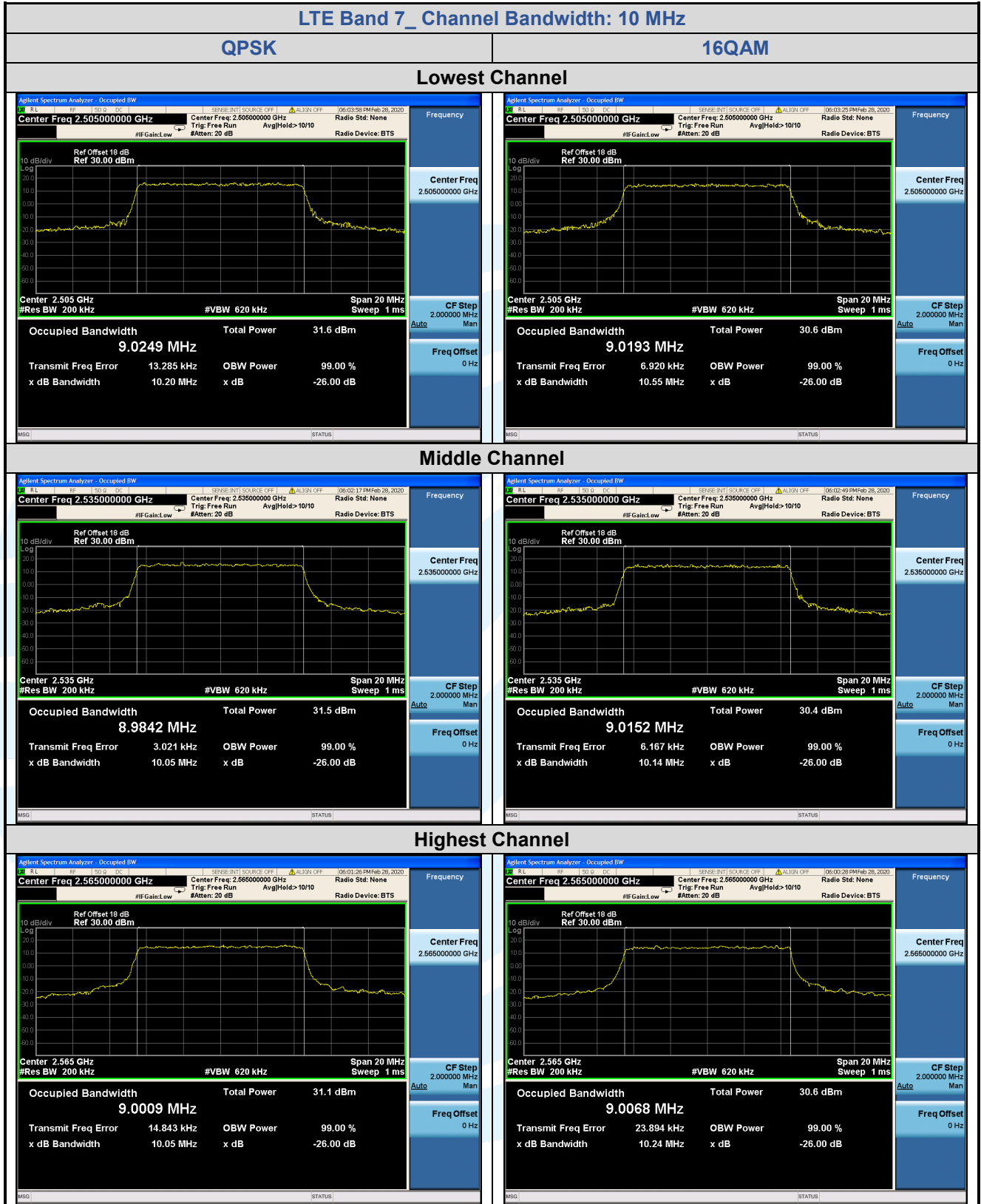
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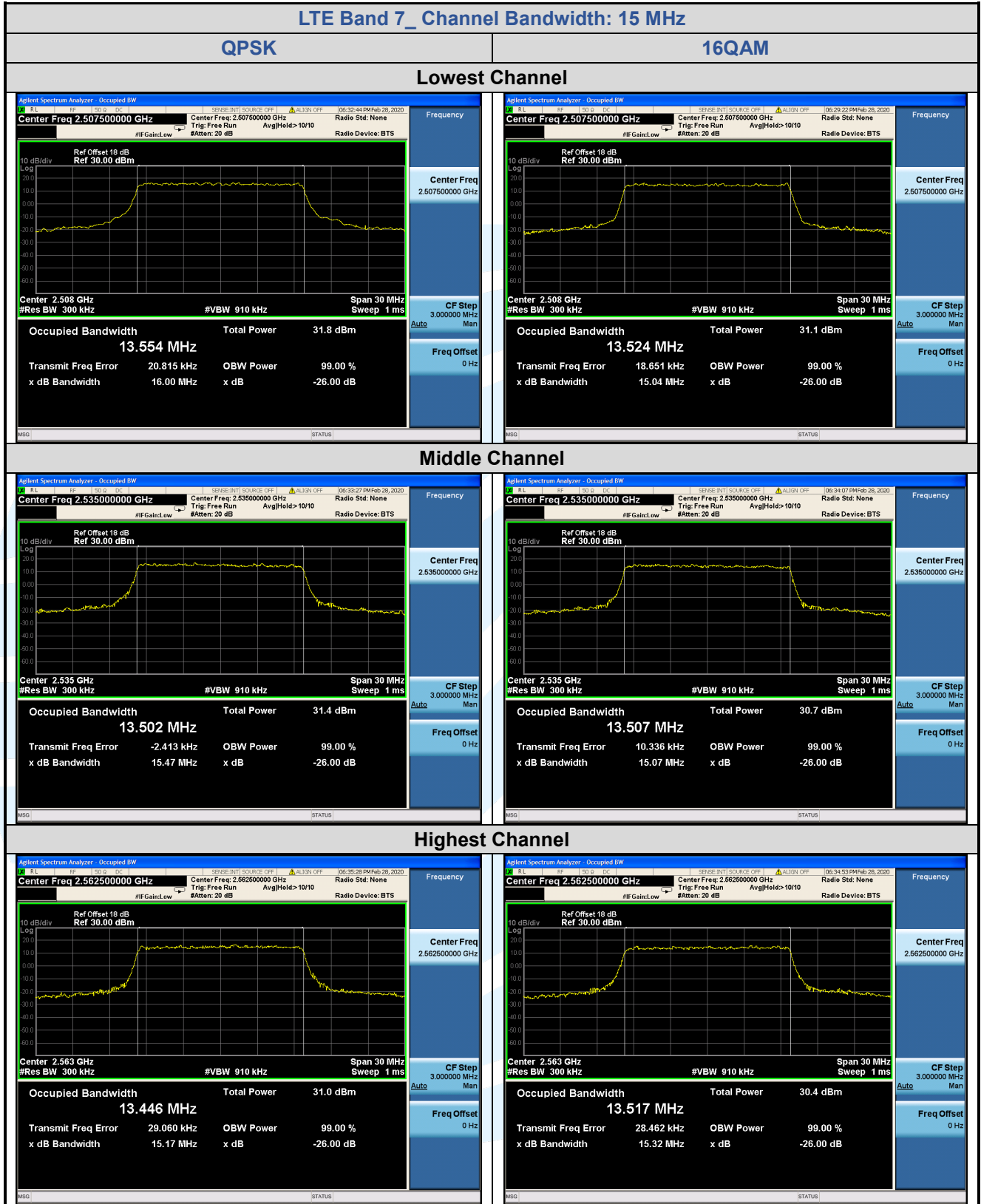
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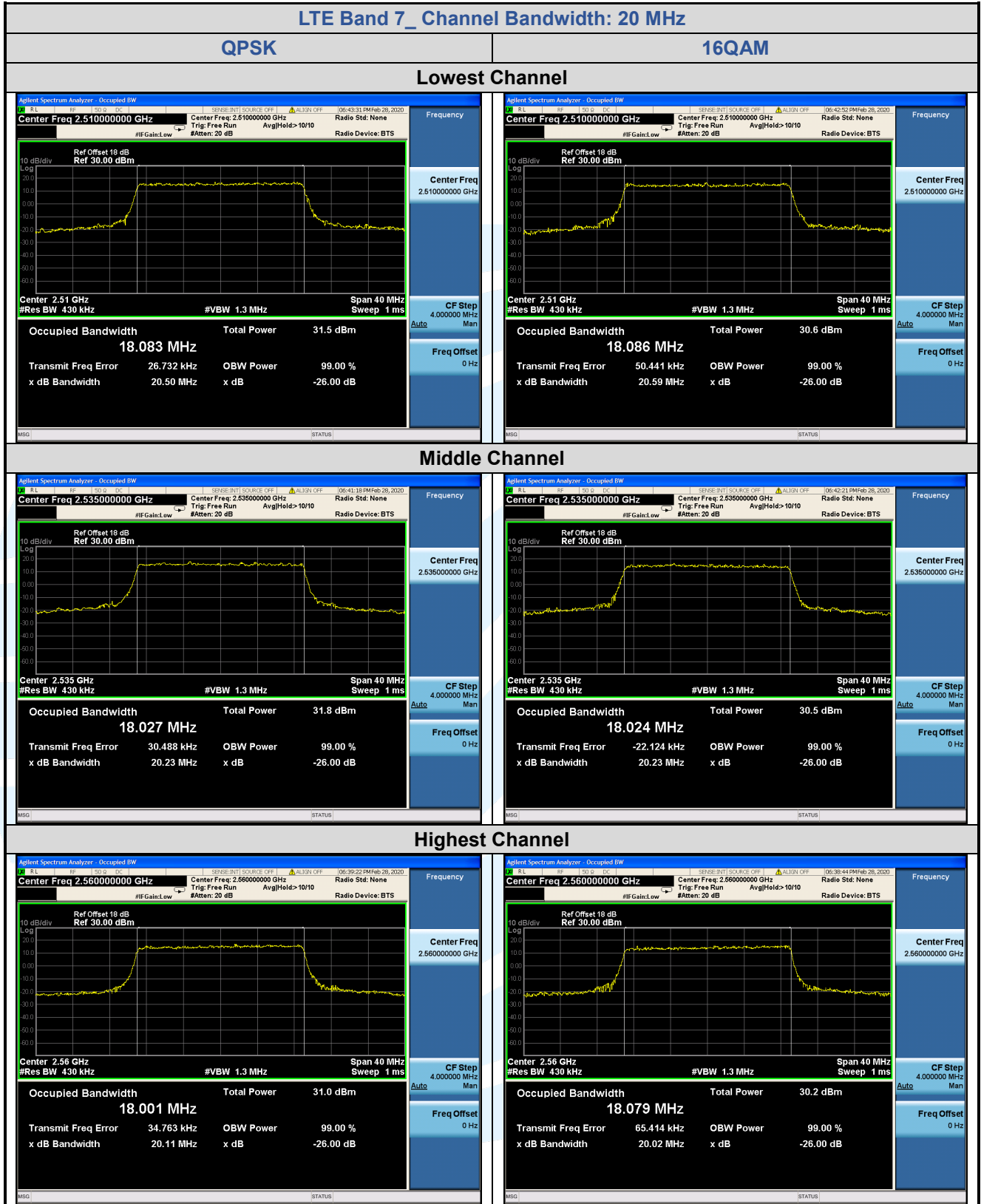
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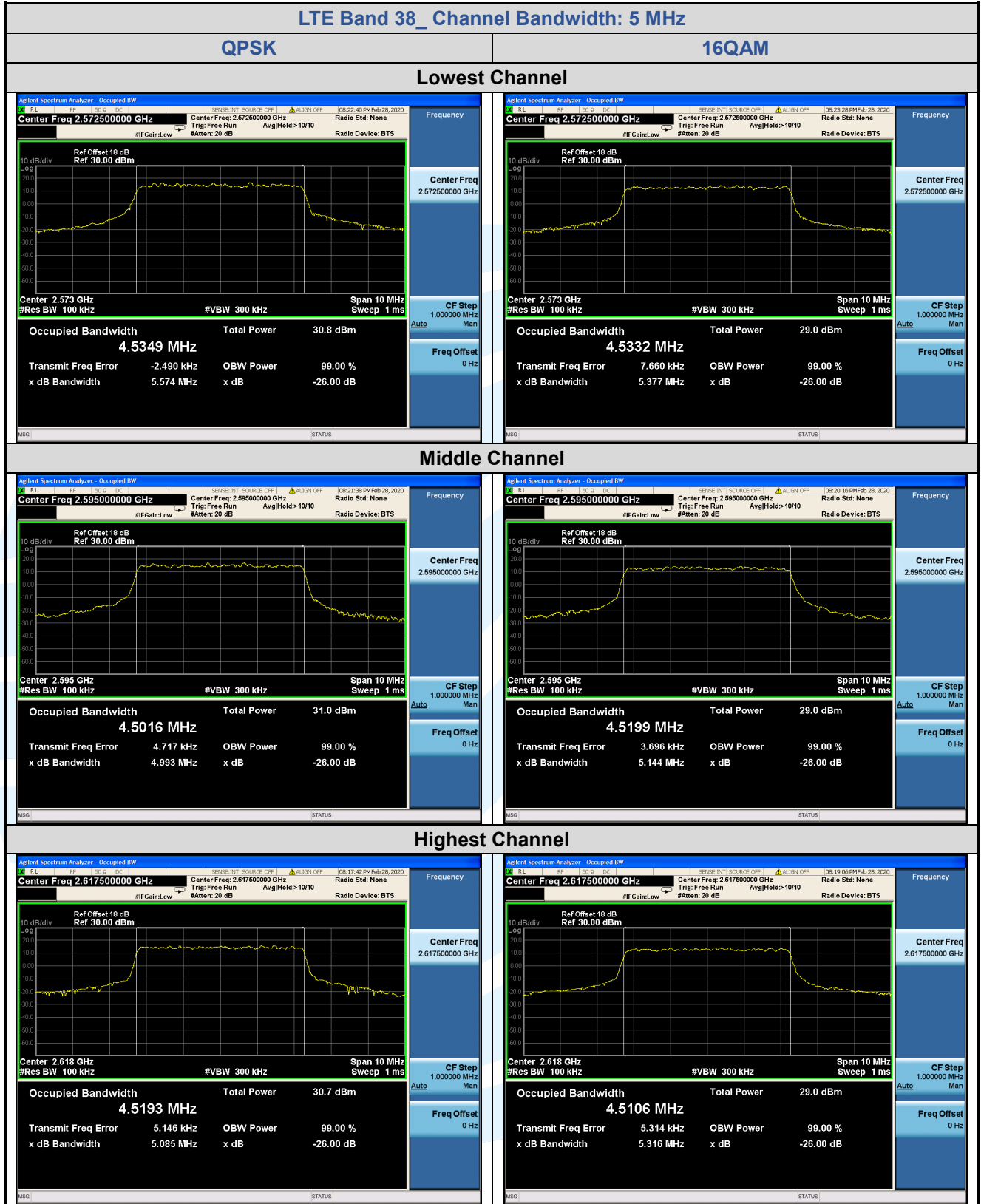
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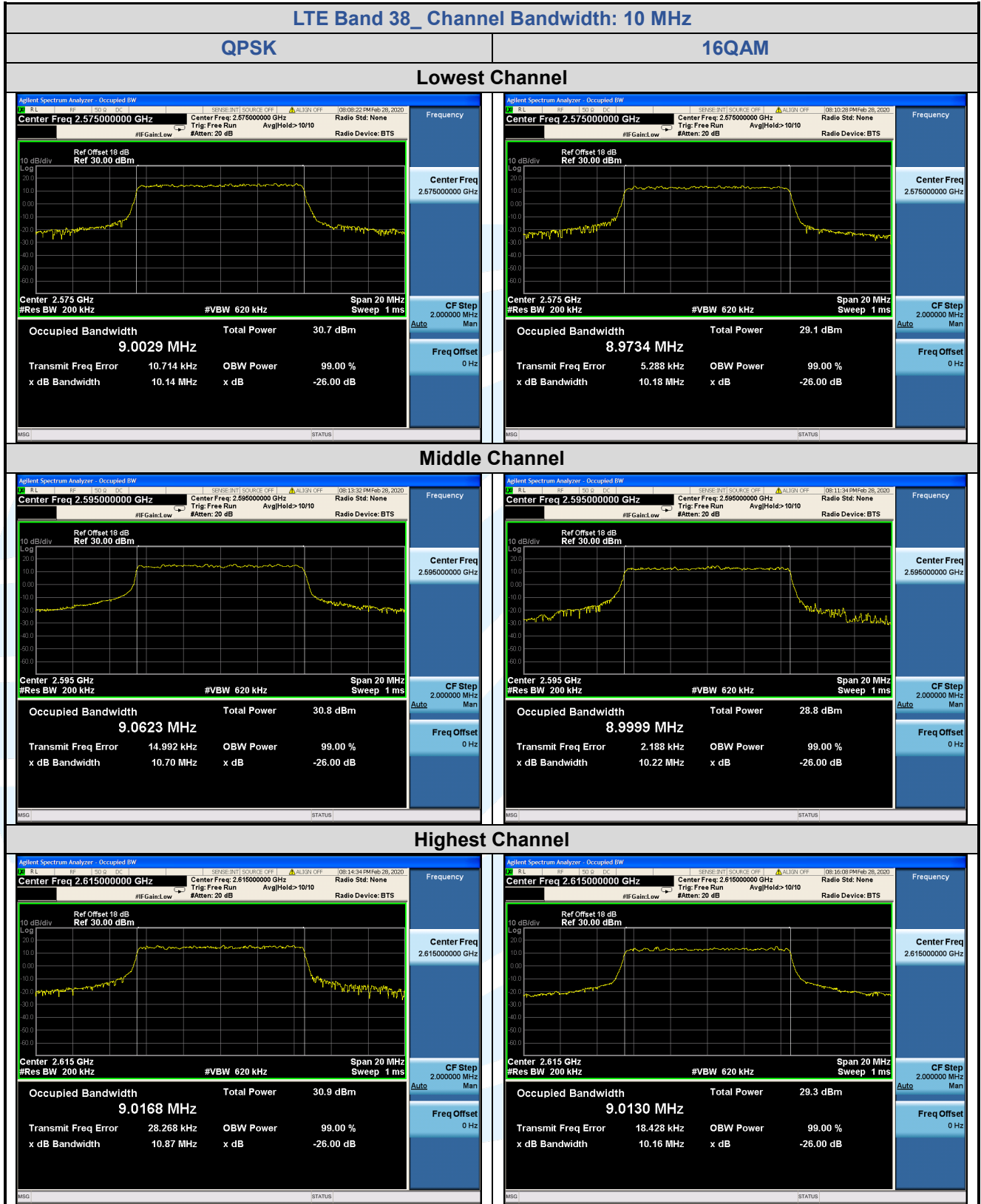
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**5.5.5 LTE Band 38**

LTE Band 38								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
<b>Channel Bandwidth: 5 MHz</b>								
Lowest	25	0	5.574	5.377	/	4.5349	4.5332	/
Middle	25	0	4.993	5.144	/	4.5016	4.5199	/
Highest	25	0	5.085	5.316	/	4.5193	4.5106	/
<b>Channel Bandwidth: 10 MHz</b>								
Lowest	50	0	10.14	10.18	/	9.0029	8.9734	/
Middle	50	0	10.70	10.22	/	9.0623	8.9999	/
Highest	50	0	10.87	10.16	/	9.0168	9.0130	/
<b>Channel Bandwidth: 15 MHz</b>								
Lowest	75	0	15.20	15.29	/	13.525	13.509	/
Middle	75	0	15.77	15.24	/	13.505	13.533	/
Highest	75	0	15.16	15.86	/	13.469	13.551	/
<b>Channel Bandwidth: 20 MHz</b>								
Lowest	100	0	20.55	20.04	/	18.028	18.002	/
Middle	100	0	20.21	20.21	/	18.024	18.000	/
Highest	100	0	19.87	19.90	/	18.031	17.990	/





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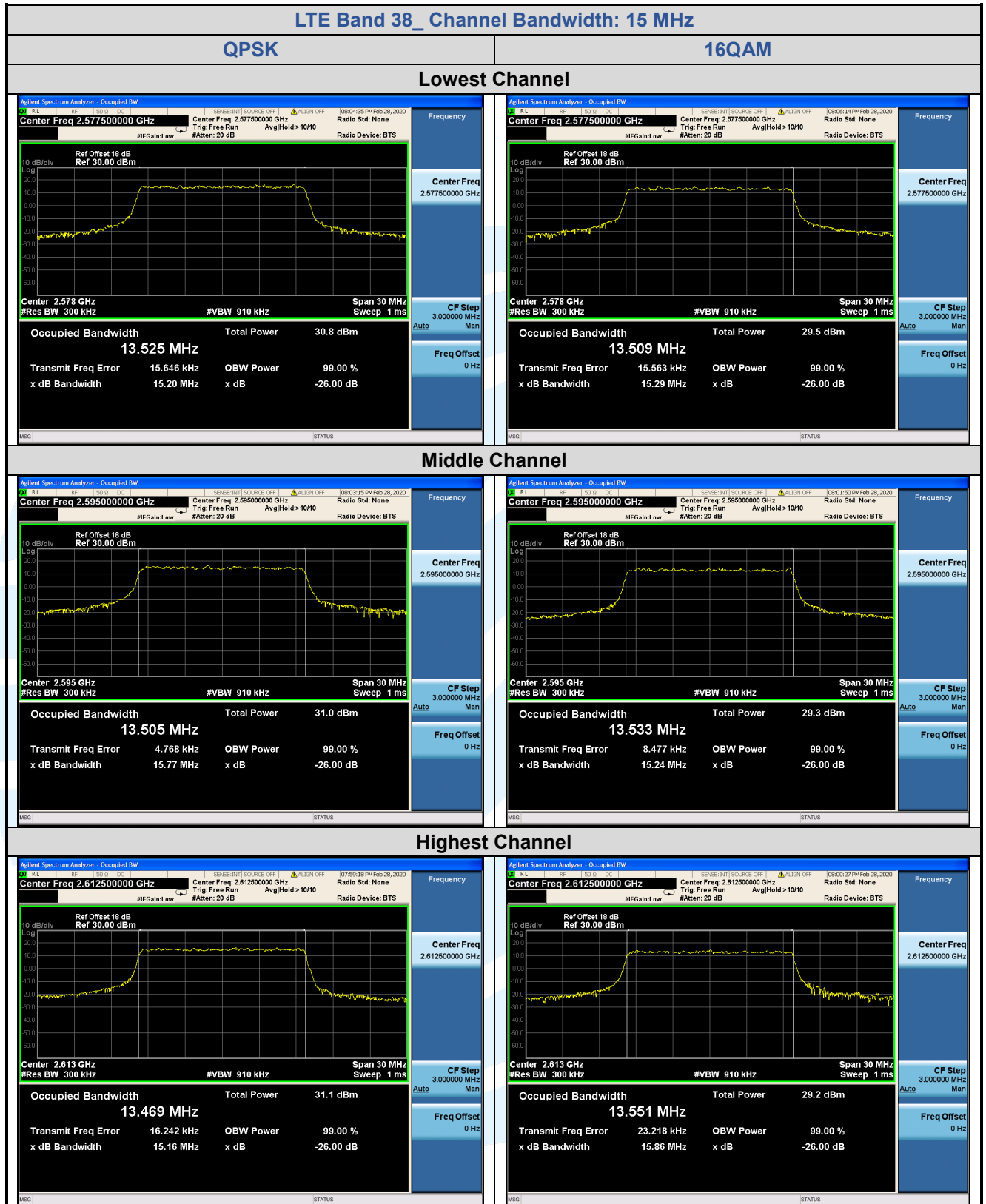
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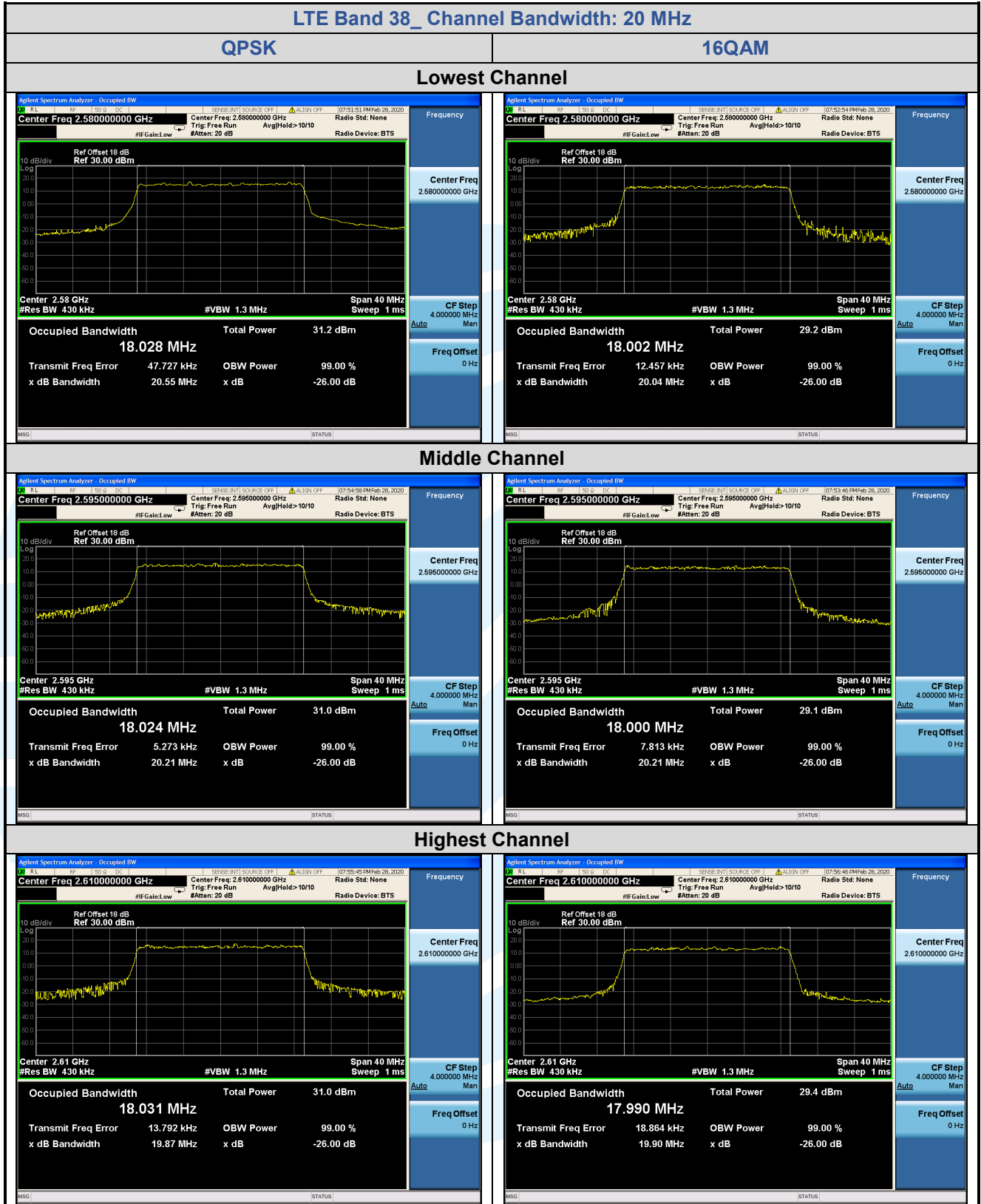
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## 5.6 BAND EDGE AT ANTENNA TERMINALS

**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 & Band 38: 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

5.6.1 LTE Band 2

