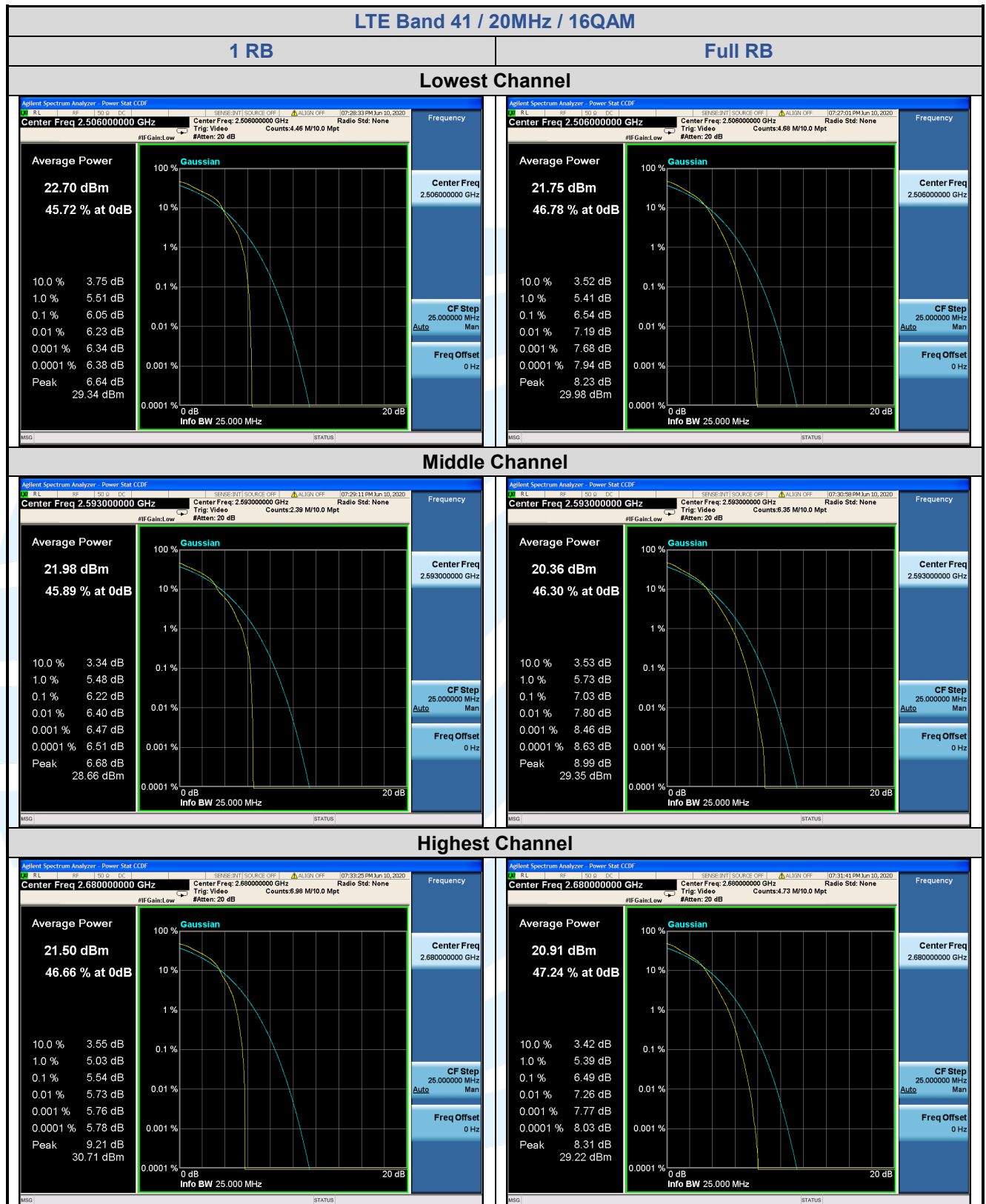
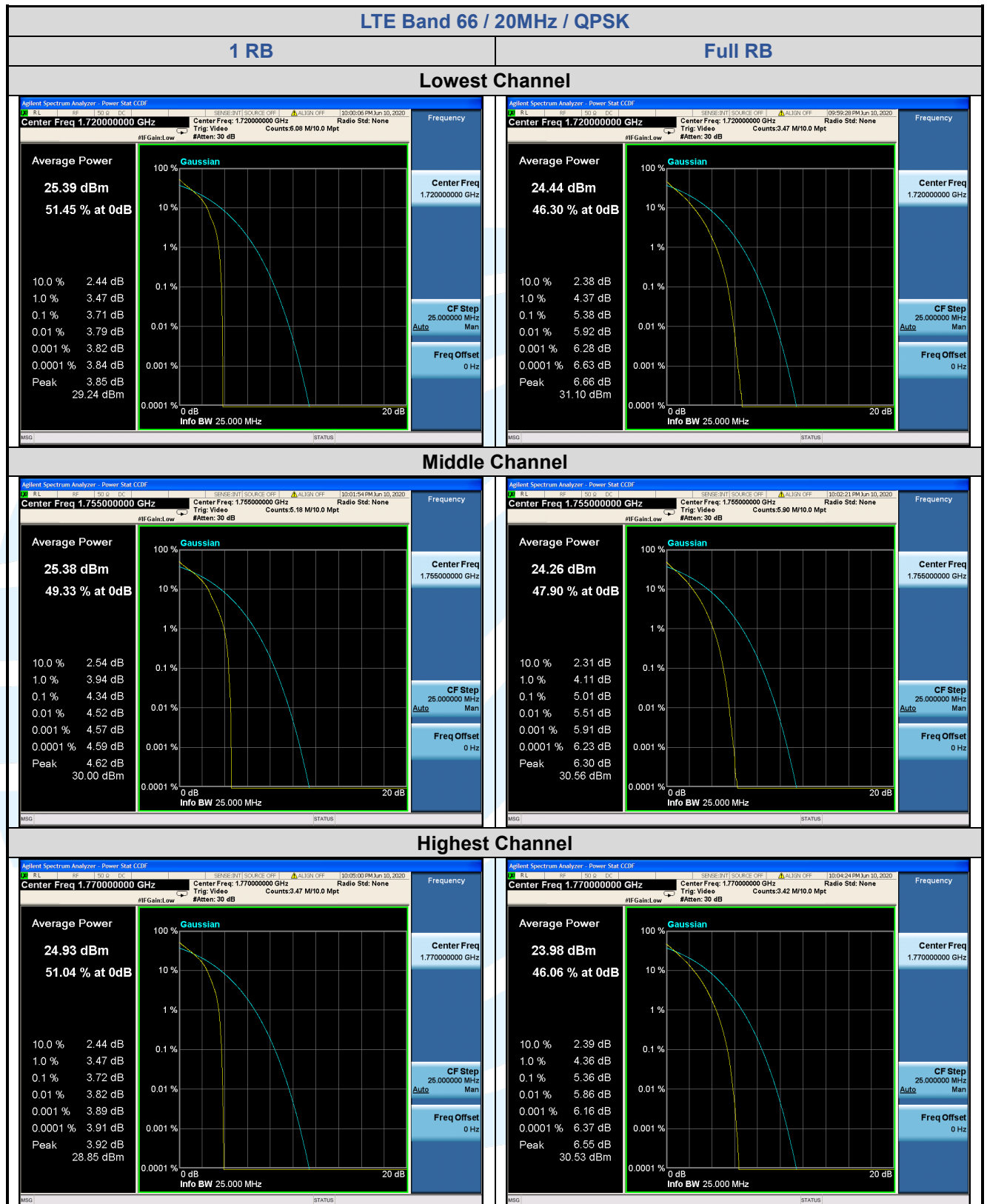
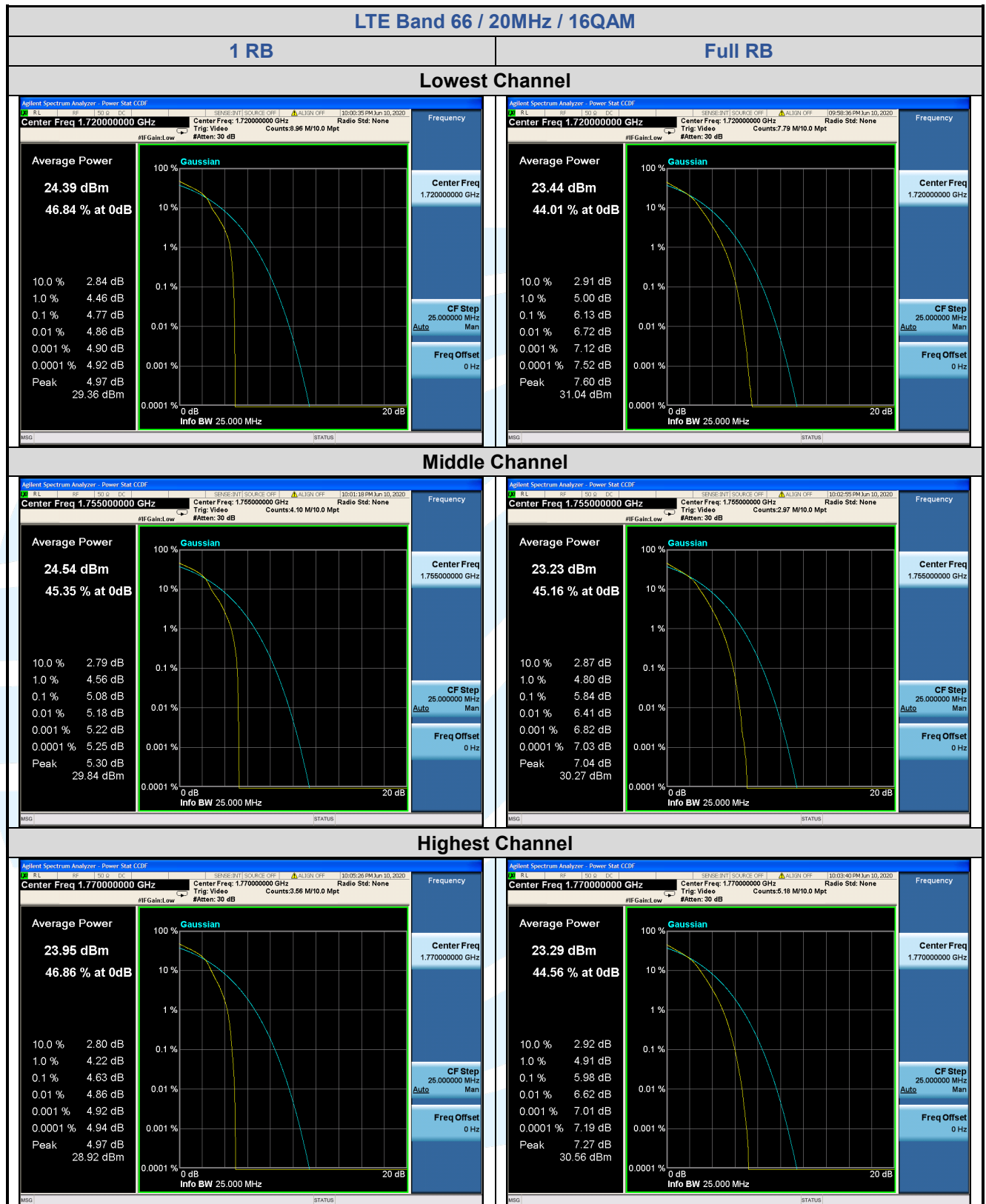




5.4.12 LTE Band 66

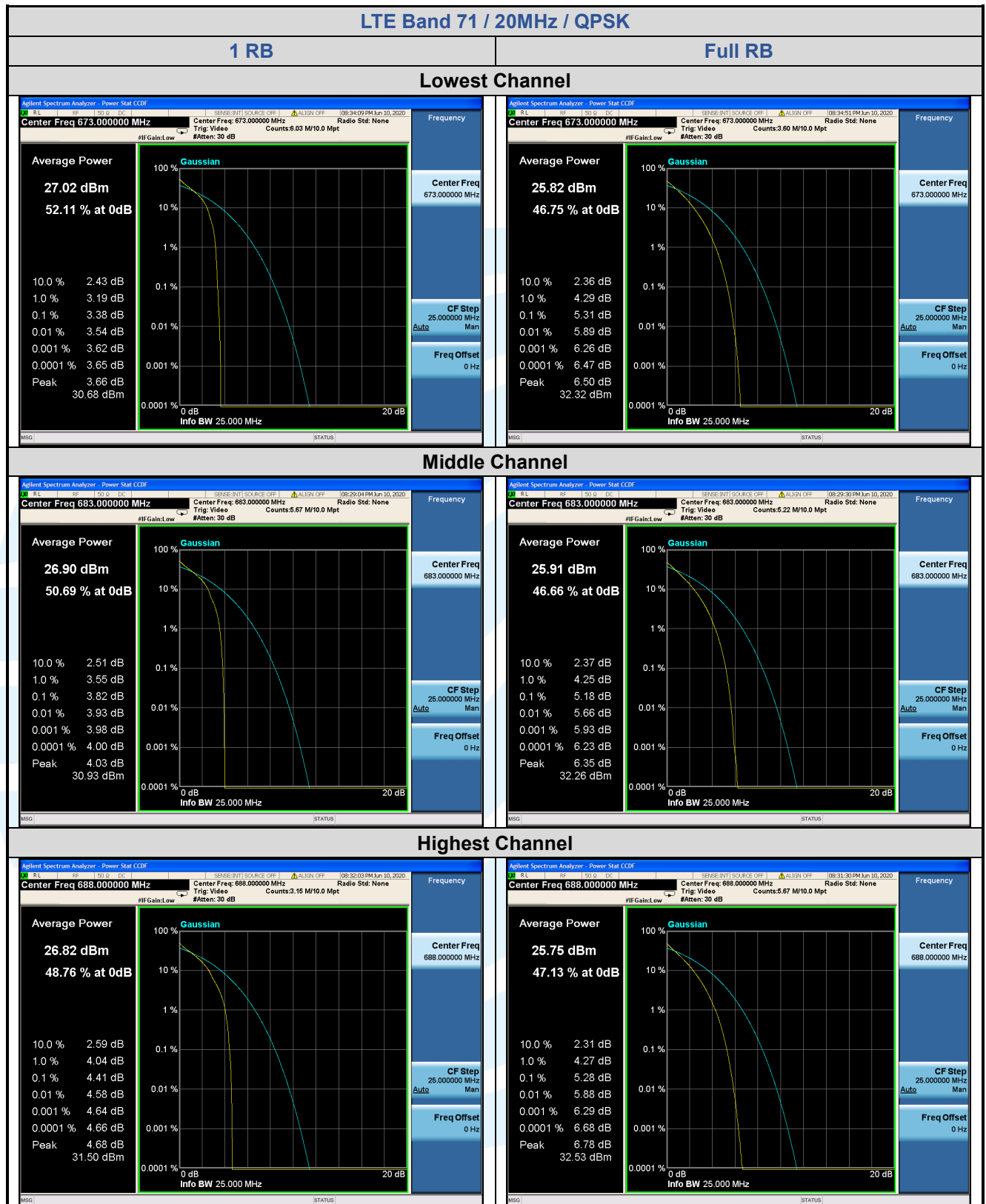
LTE Band 66 Peak-to-average ratio (dB)						
Channel	RB Configuration	Channel Bandwidth: 20 MHz			Limit (dB)	Result
		QPSK	16QAM	64QAM		
Lowest	1 RB	3.71	4.77	/	13	Pass
	Full RB	5.38	6.13	/	13	Pass
Middle	1 RB	4.34	5.08	/	13	Pass
	Full RB	5.01	5.84	/	13	Pass
Highest	1 RB	3.72	4.63	/	13	Pass
	Full RB	5.36	5.98	/	13	Pass

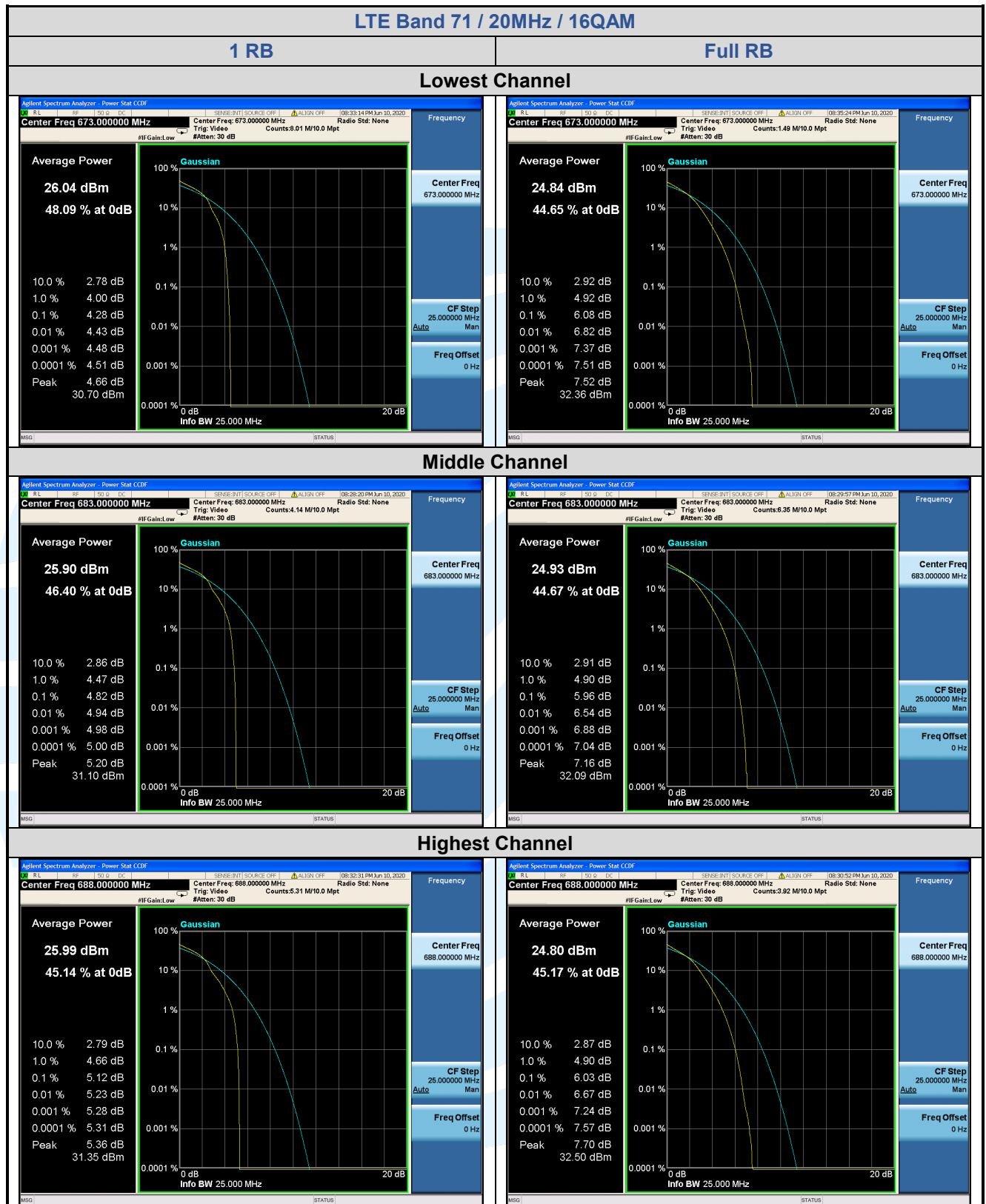




5.4.13 LTE Band 71

LTE Band 71 Peak-to-average ratio (dB)						
Channel	RB Configuration	Channel Bandwidth: 20 MHz			Limit (dB)	Result
		QPSK	16QAM	64QAM		
Lowest	1 RB	3.38	4.28	/	13	Pass
	Full RB	5.31	6.08	/	13	Pass
Middle	1 RB	3.82	4.82	/	13	Pass
	Full RB	5.18	5.96	/	13	Pass
Highest	1 RB	4.41	5.12	/	13	Pass
	Full RB	5.28	6.03	/	13	Pass





5.599%&26DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 2.1049(h)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 4

Limit: No Limit, for reporting purposes only.

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. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

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

Test Data: See table below

5.5.1 LTE Band 2

LTE Band 2								
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	1.272	1.289	/	1.0924	1.0949	/
Middle	6	0	1.279	1.290	/	1.0913	1.0957	/
Highest	6	0	1.265	1.279	/	1.0919	1.0966	/
Channel Bandwidth: 3 MHz								
Lowest	15	0	2.887	2.898	/	2.6763	2.6803	/
Middle	15	0	2.919	2.905	/	2.6763	2.6782	/
Highest	15	0	2.921	2.901	/	2.6760	2.6782	/
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.181	5.137	/	4.5102	4.5068	/
Middle	25	0	5.170	5.172	/	4.5077	4.5062	/
Highest	25	0	5.155	5.130	/	4.4952	4.5059	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.09	9.951	/	9.0063	8.9580	/
Middle	50	0	10.04	9.880	/	8.9919	8.9643	/
Highest	50	0	9.993	9.921	/	9.0214	8.9640	/
Channel Bandwidth: 15 MHz								
Lowest	75	0	14.91	14.92	/	13.514	13.491	/
Middle	75	0	14.89	14.95	/	13.454	13.458	/
Highest	75	0	14.90	15.02	/	13.516	13.523	/
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.65	19.59	/	18.014	18.013	/
Middle	100	0	19.66	19.52	/	17.914	17.927	/
Highest	100	0	19.80	19.83	/	18.041	18.057	/

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

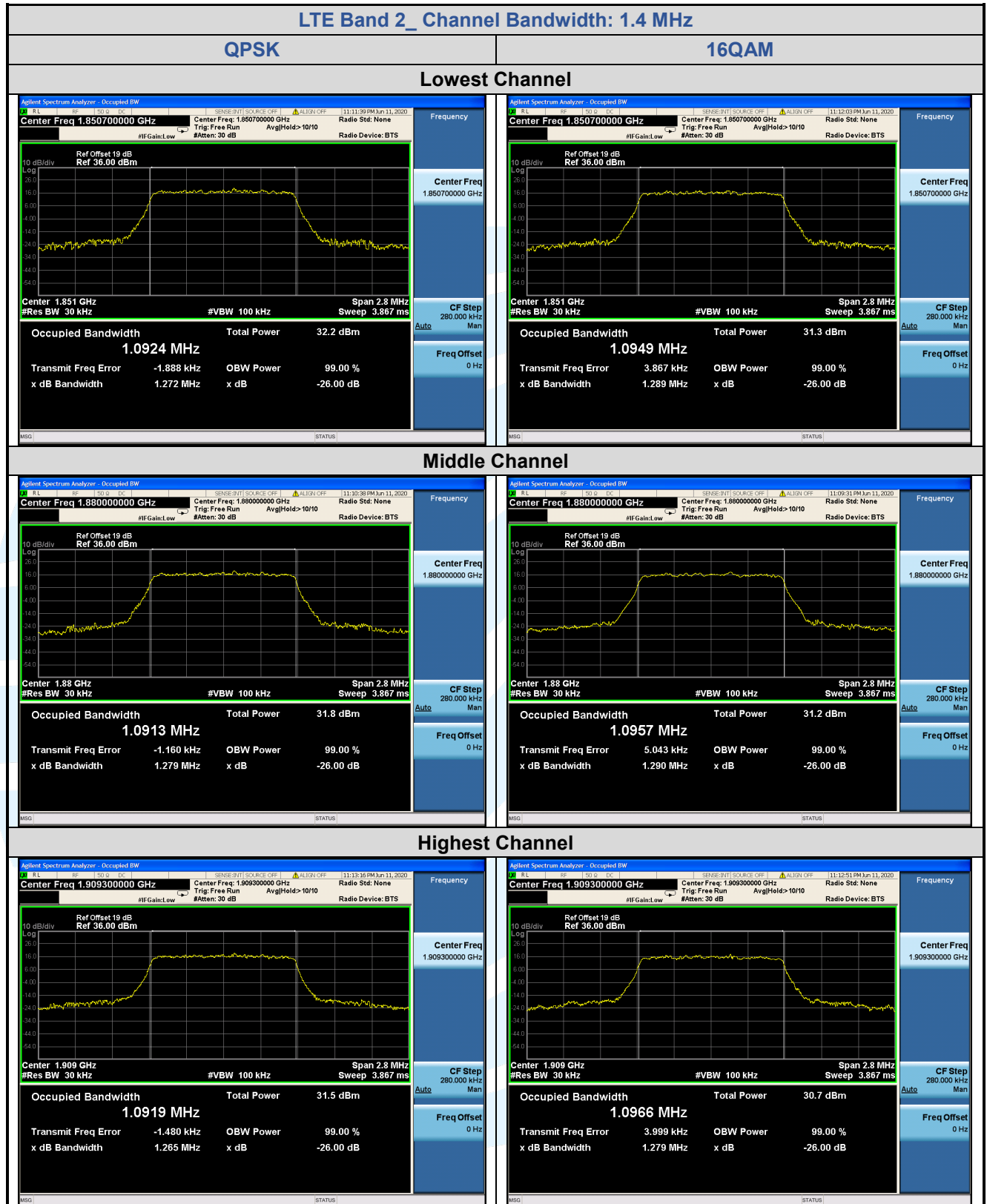
Tel: +86-755-28230888

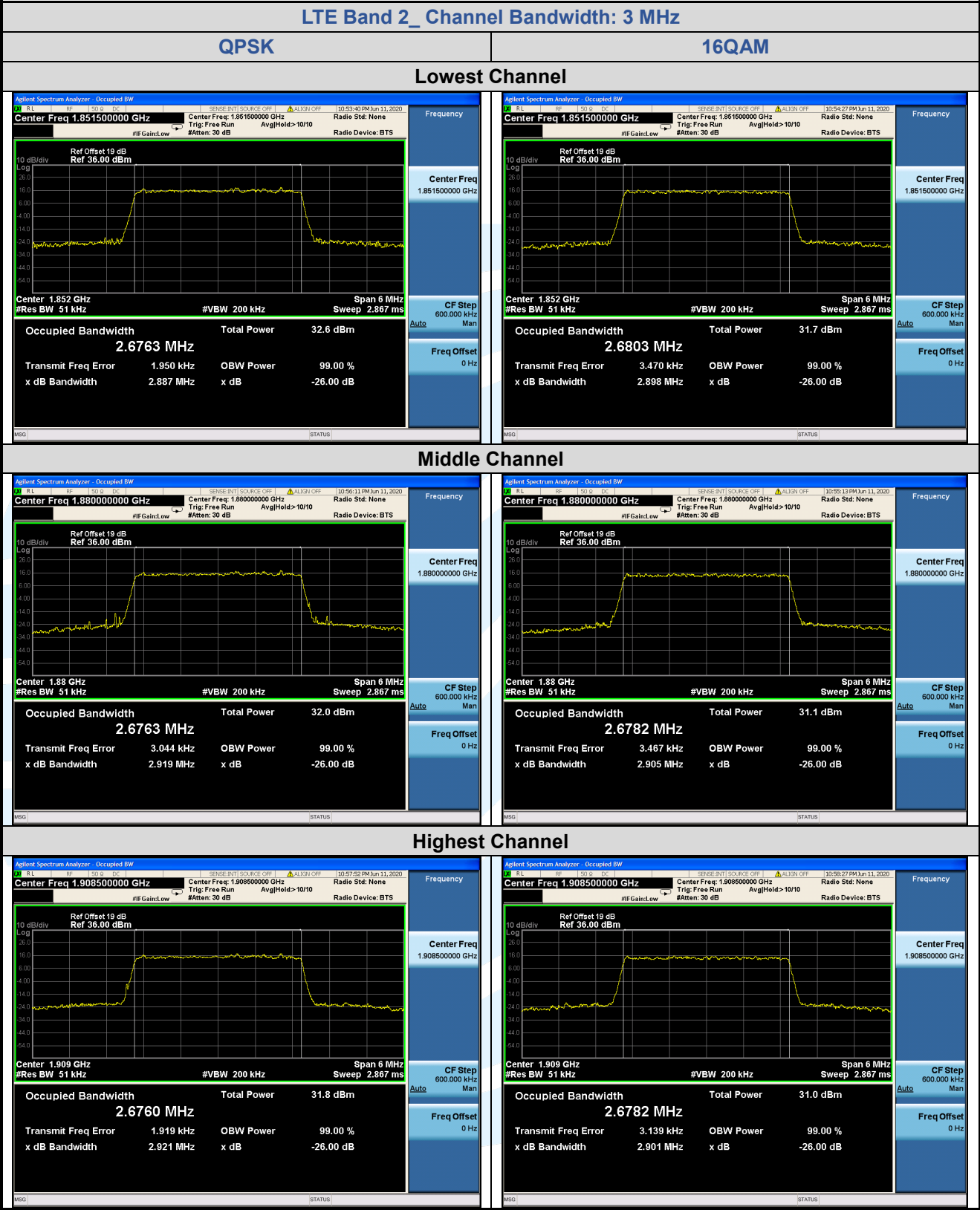
Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-FCC4G-V1.0





Middle Channel

Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.880000000 GHz

Ref Offset 19 dB
Ref 36.00 dBm

10 dB/div

Log

20.0

16.0

12.0

8.0

4.0

0.0

-4.0

-8.0

-12.0

-16.0

-20.0

-24.0

-28.0

-32.0

-36.0

-40.0

-44.0

-48.0

-52.0

-56.0

-60.0

Center 1.88 GHz

#Res BW 51 kHz

#VBW 200 kHz

Span 6 MHz

Sweep 2.867 ms

CF Step 600.000 kHz

Auto

Man

Occupied Bandwidth 2.6763 MHz

Total Power 32.0 dBm

Transmit Freq Error 3.044 kHz

OBW Power 99.00 %

x dB Bandwidth 2.919 MHz

x dB -26.00 dB

MSG

STATUS

Frequency

Center Freq 1.880000000 GHz

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.880000000 GHz

Ref Offset 19 dB
Ref 36.00 dBm

10 dB/div

Log

20.0

16.0

12.0

8.0

4.0

0.0

-4.0

-8.0

-12.0

-16.0

-20.0

-24.0

-28.0

-32.0

-36.0

-40.0

-44.0

-48.0

-52.0

-56.0

-60.0

Center 1.88 GHz

#Res BW 51 kHz

#VBW 200 kHz

Span 6 MHz

Sweep 2.867 ms

CF Step 600.000 kHz

Auto

Man

Occupied Bandwidth 2.6782 MHz

Total Power 31.1 dBm

Transmit Freq Error 3.467 kHz

OBW Power 99.00 %

x dB Bandwidth 2.905 MHz

x dB -26.00 dB

MSG

STATUS

Frequency

Center Freq 1.880000000 GHz

Freq Offset 0 Hz

Highest Channel

Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.908500000 GHz

Ref Offset 19 dB
Ref 36.00 dBm

10 dB/div

Log

20.0

16.0

12.0

8.0

4.0

0.0

-4.0

-8.0

-12.0

-16.0

-20.0

-24.0

-28.0

-32.0

-36.0

-40.0

-44.0

-48.0

-52.0

-56.0

-60.0

Center 1.909 GHz

#Res BW 51 kHz

#VBW 200 kHz

Span 6 MHz

Sweep 2.867 ms

CF Step 600.000 kHz

Auto

Man

Occupied Bandwidth 2.6760 MHz

Total Power 31.8 dBm

Transmit Freq Error 1.919 kHz

OBW Power 99.00 %

x dB Bandwidth 2.921 MHz

x dB -26.00 dB

MSG

STATUS

Frequency

Center Freq 1.908500000 GHz

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Occupied BW

Center Freq 1.908500000 GHz

Ref Offset 19 dB
Ref 36.00 dBm

10 dB/div

Log

20.0

16.0

12.0

8.0

4.0

0.0

-4.0

-8.0

-12.0

-16.0

-20.0

-24.0

-28.0

-32.0

-36.0

-40.0

-44.0

-48.0

-52.0

-56.0

-60.0

Center 1.909 GHz

#Res BW 51 kHz

#VBW 200 kHz

Span 6 MHz

Sweep 2.867 ms

CF Step 600.000 kHz

Auto

Man

Occupied Bandwidth 2.6782 MHz

Total Power 31.0 dBm

Transmit Freq Error 3.139 kHz

OBW Power 99.00 %

x dB Bandwidth 2.901 MHz

x dB -26.00 dB

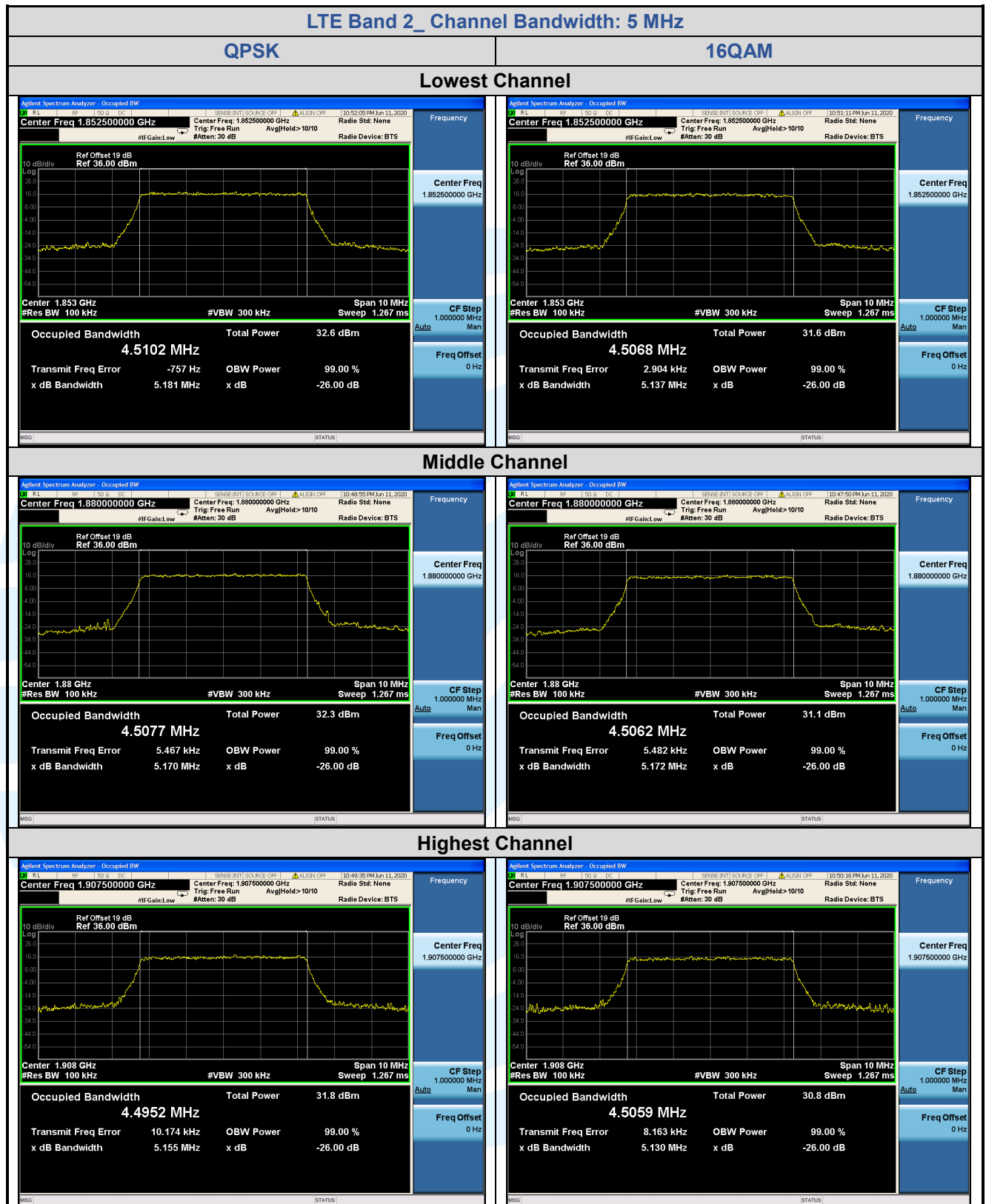
MSG

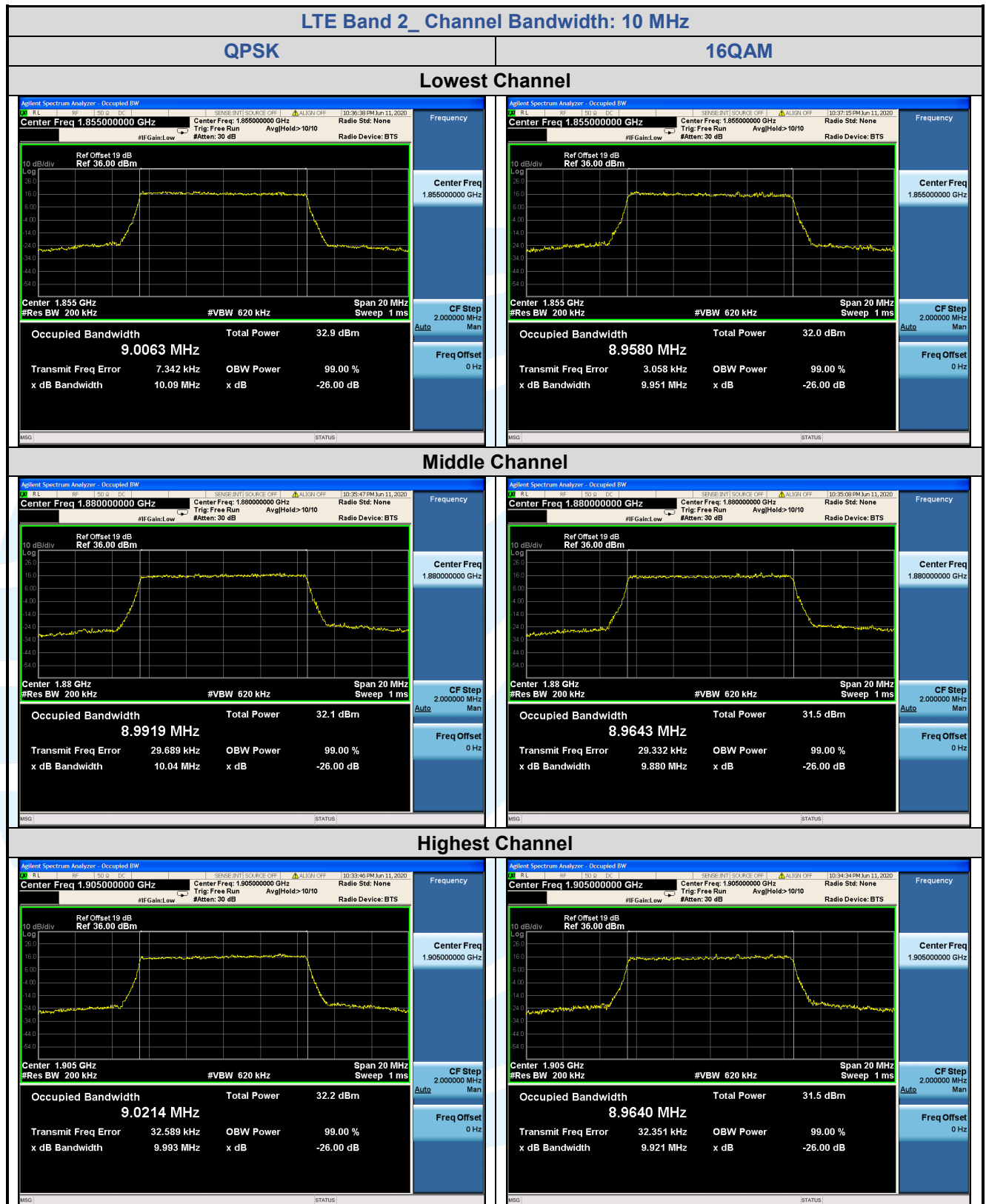
STATUS

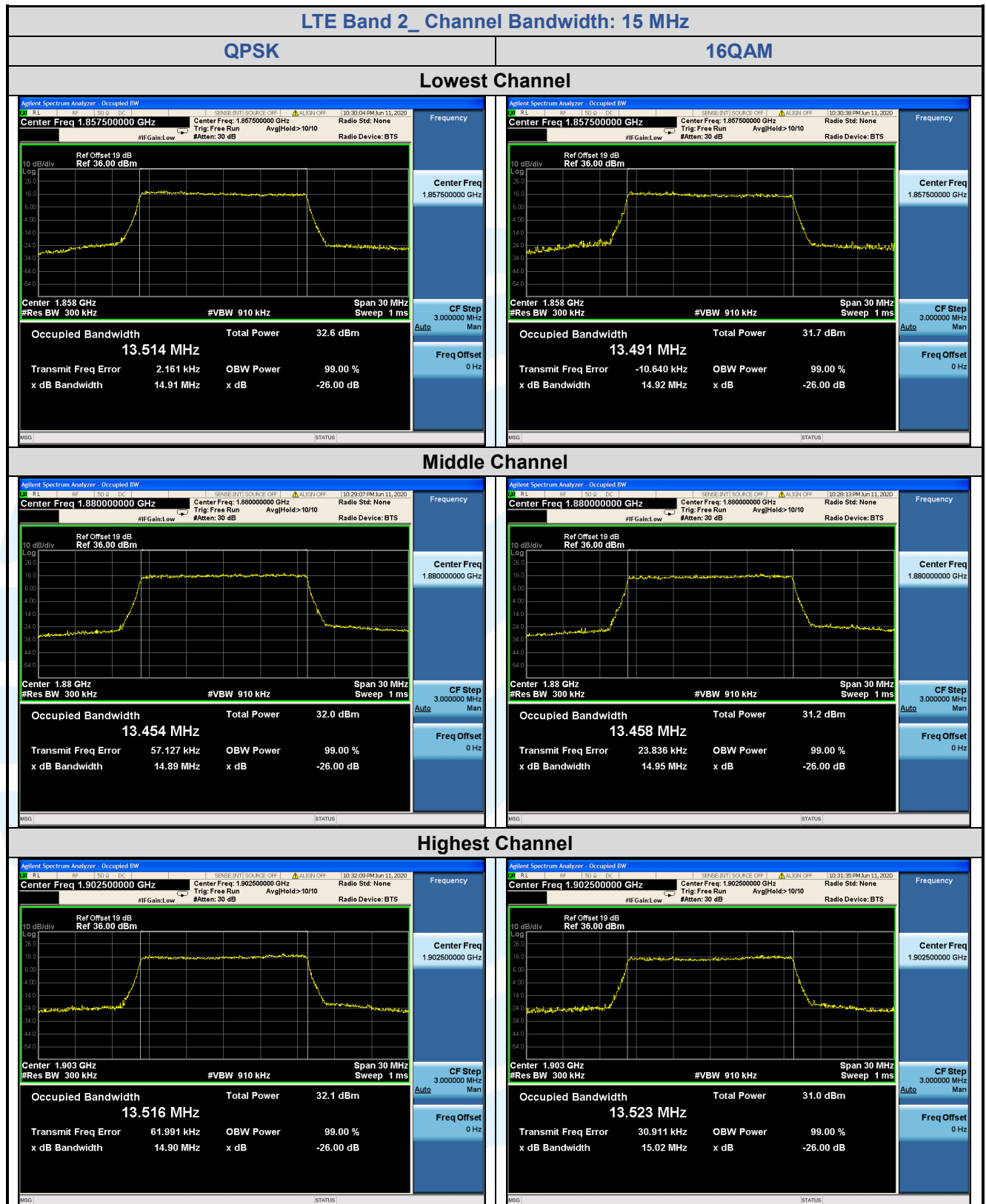
Frequency

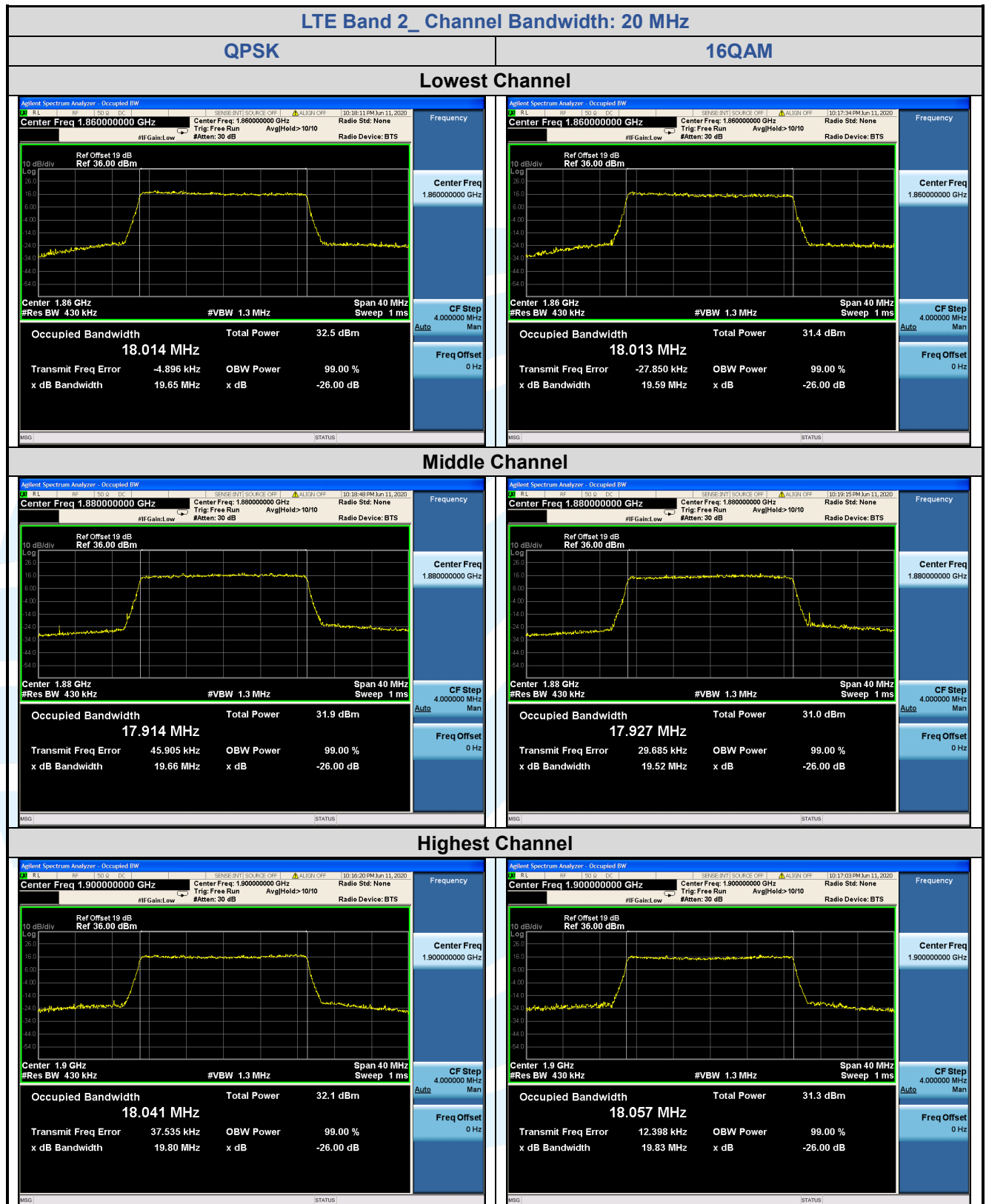
Center Freq 1.908500000 GHz

Freq Offset 0 Hz









5.5.2 LTE Band 4

LTE Band 4								
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	1.279	1.291	/	1.0922	1.0977	/
Middle	6	0	1.280	1.280	/	1.0925	1.0907	/
Highest	6	0	1.270	1.295	/	1.0923	1.0972	/
Channel Bandwidth: 3 MHz								
Lowest	15	0	2.892	2.906	/	2.6779	2.6808	/
Middle	15	0	2.939	2.897	/	2.6777	2.6782	/
Highest	15	0	2.885	2.903	/	2.6785	2.6795	/
Channel Bandwidth: 5 MHz								
Lowest	25	0	5.187	5.207	/	4.5108	4.5049	/
Middle	25	0	5.142	5.112	/	4.5067	4.5054	/
Highest	25	0	5.176	5.181	/	4.5116	4.5055	/
Channel Bandwidth: 10 MHz								
Lowest	50	0	10.06	9.998	/	9.0165	8.9745	/
Middle	50	0	10.02	9.979	/	9.0223	8.9619	/
Highest	50	0	10.05	9.979	/	9.0177	8.9712	/
Channel Bandwidth: 15 MHz								
Lowest	75	0	15.01	14.97	/	13.531	13.500	/
Middle	75	0	15.22	15.01	/	13.514	13.492	/
Highest	75	0	14.90	15.09	/	13.509	13.490	/
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.67	19.80	/	17.968	18.022	/
Middle	100	0	19.78	19.73	/	17.985	18.021	/
Highest	100	0	19.71	19.71	/	17.959	18.023	/

