

5.4.5 LTE Band 13

LTE Band 13 Peak-to-average ratio (dB)					
Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)	Limit (dB)	Result
5MHz	QPSK	23230/782	8.59	13	Pass
	16QAM	23230/782	9.39	13	Pass
10MHz	QPSK	23230/782	8.68	13	Pass
	16QAM	23230/782	9.09	13	Pass

5.4.6 LTE Band 25

LTE Band 25 Peak-to-average ratio (dB)					
Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)	Limit (dB)	Result
1.4MHz	QPSK	26365/1882,5	8.34	13	Pass
	16QAM	26365/1882,5	8.49	13	Pass
3MHz	QPSK	26365/1882,5	8.31	13	Pass
	16QAM	26365/1882,5	8.41	13	Pass
5MHz	QPSK	26365/1882,5	8.25	13	Pass
	16QAM	26365/1882,5	8.49	13	Pass
10MHz	QPSK	26365/1882,5	8.21	13	Pass
	16QAM	26365/1882,5	8.46	13	Pass
15MHz	QPSK	26365/1882,5	8.20	13	Pass
	16QAM	26365/1882,5	8.67	13	Pass
20MHz	QPSK	26365/1882,5	8.34	13	Pass
	16QAM	26365/1882,5	8.89	13	Pass

5.4.7 LTE Band 26

LTE Band 26 Peak-to-average ratio (dB)					
Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)	Limit (dB)	Result
1.4MHz	QPSK	26915/836.5	8.48	13	Pass
	16QAM	26915/836.5	8.78	13	Pass
3MHz	QPSK	26915/836.5	8.32	13	Pass
	16QAM	26915/836.5	8.54	13	Pass
5MHz	QPSK	26915/836.5	8.49	13	Pass
	16QAM	26915/836.5	8.94	13	Pass
10MHz	QPSK	26915/836.5	8.37	13	Pass
	16QAM	26915/836.5	8.71	13	Pass

5.4.8 LTE Band 26 (Part 90S)

LTE Band 26 Peak-to-average ratio (dB)					
Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)	Limit (dB)	Result
1.4MHz	QPSK	26740/819	8.46	13	Pass
	16QAM	26740/819	8.75	13	Pass
3MHz	QPSK	26740/819	8.23	13	Pass
	16QAM	26740/819	8.97	13	Pass
5MHz	QPSK	26740/819	8.38	13	Pass
	16QAM	26740/819	9.01	13	Pass
10MHz	QPSK	26740/819	8.56	13	Pass
	16QAM	26740/819	8.97	13	Pass
15MHz	QPSK	26740/819	8.57	13	Pass
	16QAM	26740/819	8.86	13	Pass

5.4.9 LTE Band 66

LTE Band 66 Peak-to-average ratio (dB)					
Bandwidth	Modulation	Channel/ Frequency(MHz)	Peak-to-Average Power Ratio (PAPR)	Limit (dB)	Result
1.4MHz	QPSK	132422/1755	8.41	13	Pass
	16QAM	132422/1755	9.01	13	Pass
3MHz	QPSK	132422/1755	8.54	13	Pass
	16QAM	132422/1755	9.11	13	Pass
5MHz	QPSK	132422/1755	8.54	13	Pass
	16QAM	132422/1755	8.99	13	Pass
10MHz	QPSK	132422/1755	8.65	13	Pass
	16QAM	132422/1755	8.84	13	Pass
15MHz	QPSK	132422/1755	8.41	13	Pass
	16QAM	132422/1755	8.72	13	Pass
20MHz	QPSK	132422/1755	8.45	13	Pass
	16QAM	132422/1755	9.01	13	Pass

5.5 99%&26DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 2.1049(h)
 RSS-Gen Issue 5, Section 6.7
Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 4
Limit: No Limit, for reporting purposes only.

Test Procedure:

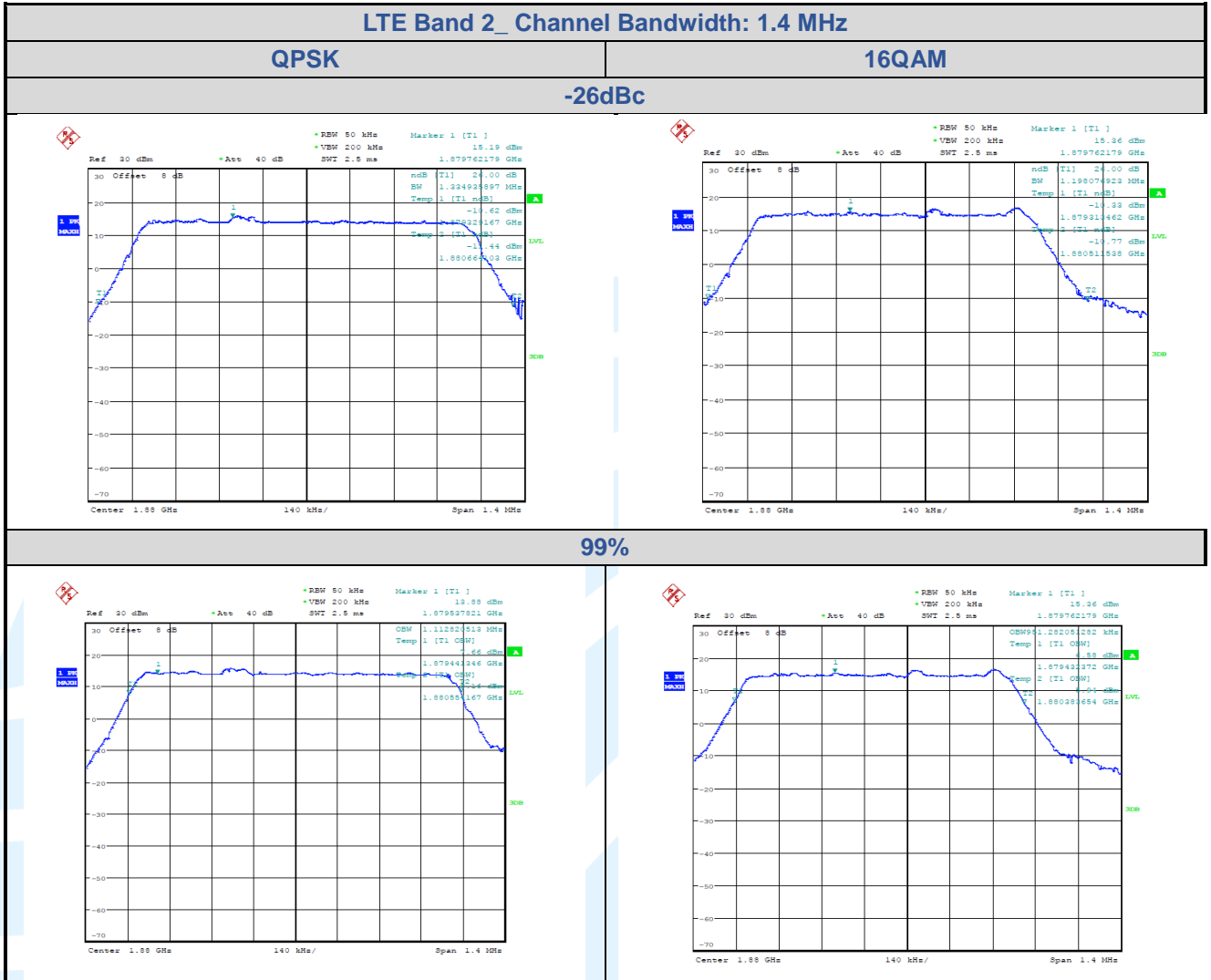
The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

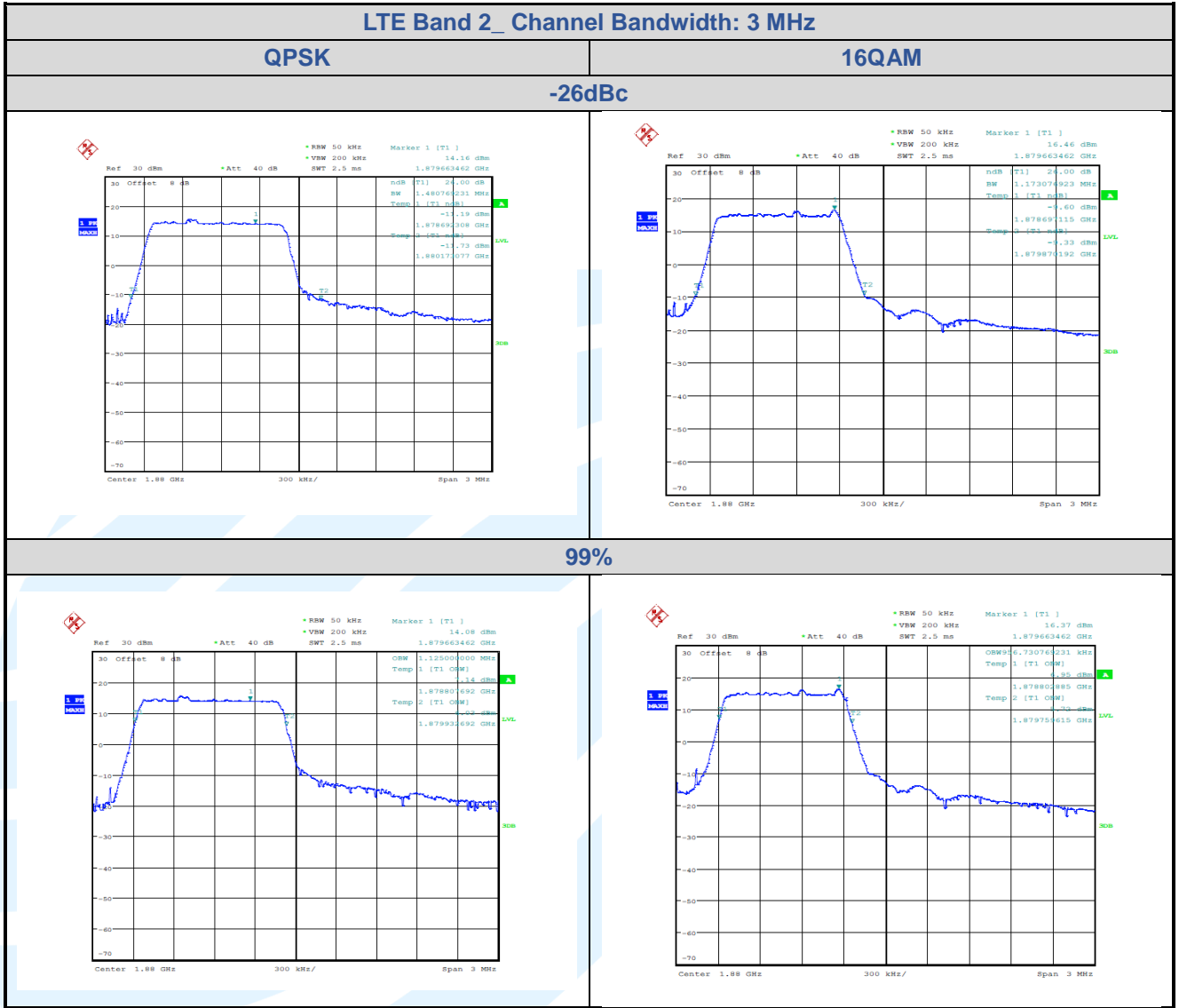
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

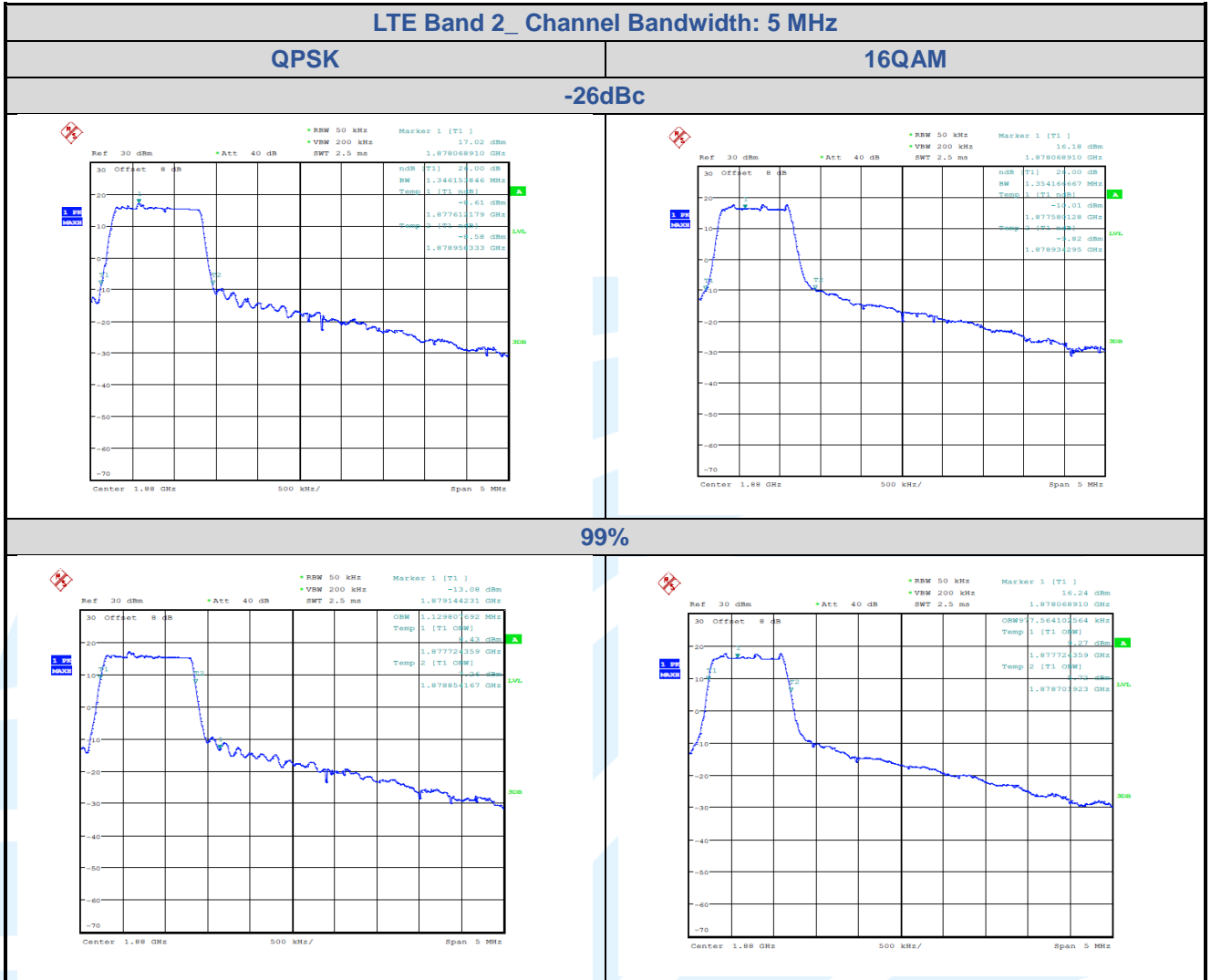
Test Setup: Refer to section 4.2.2 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass
Test Data: See table below

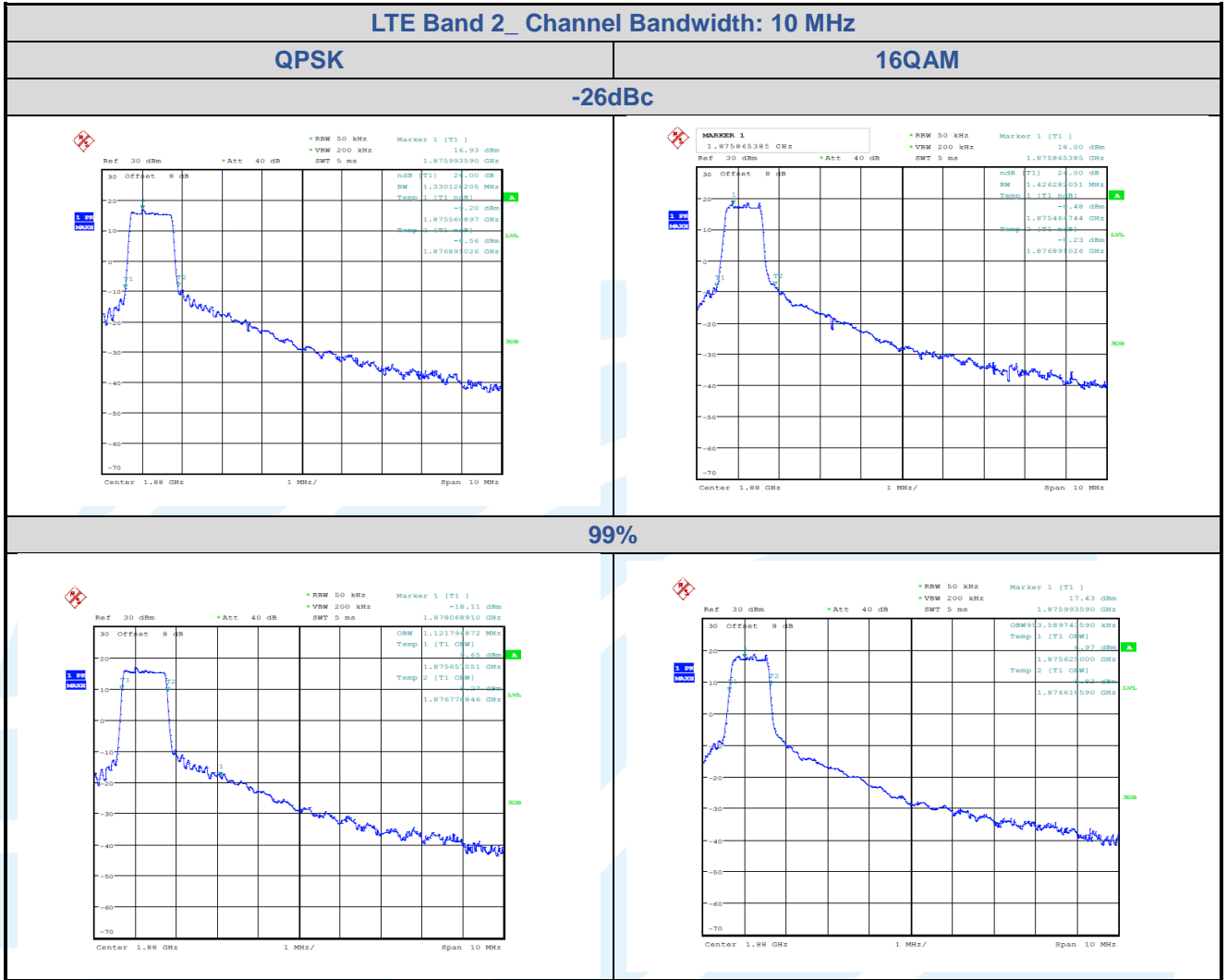
5.5.1 LTE Band 2

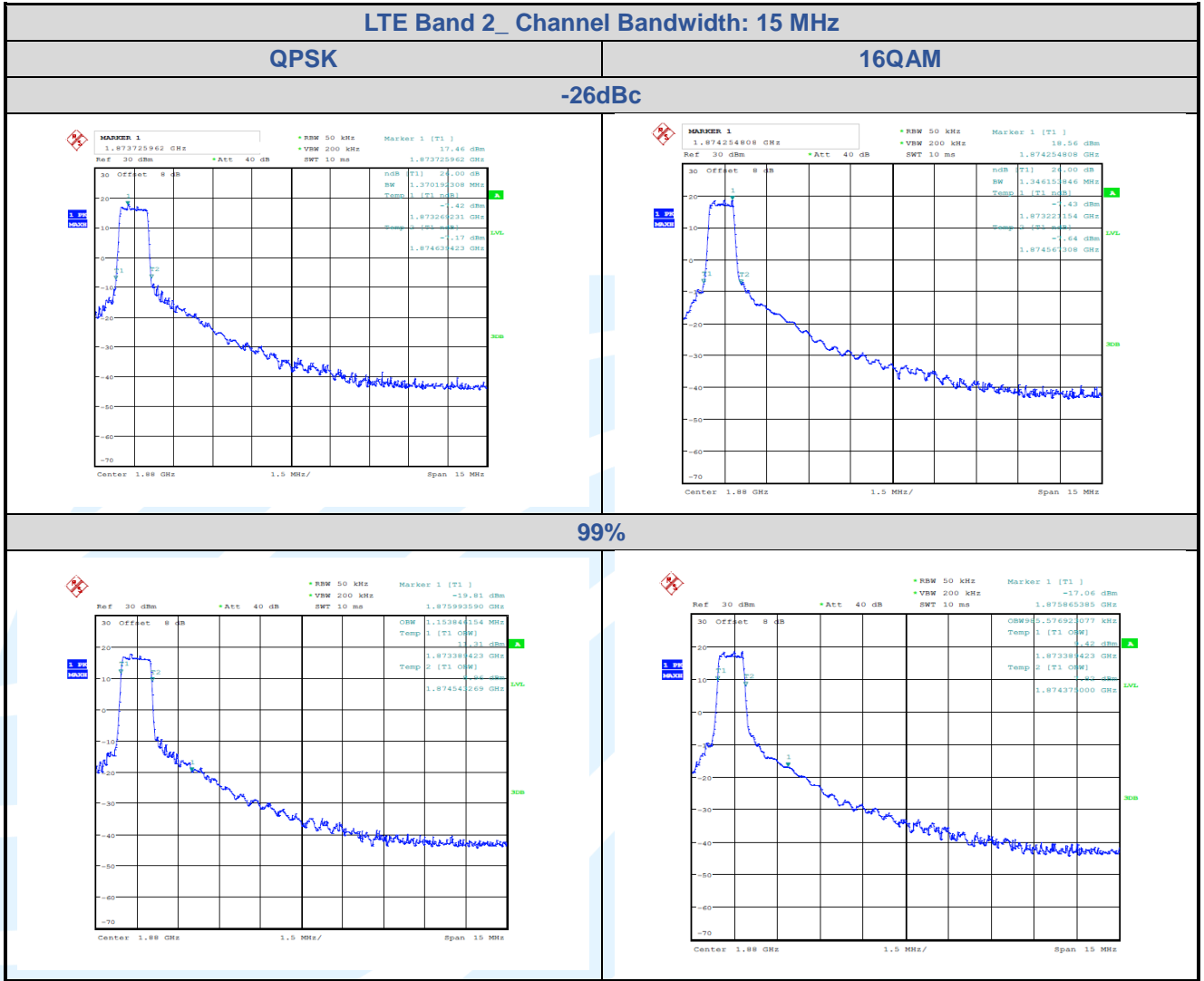
LTE Band 2			
Bandwidth	Modulation	Bandwidth(MHz)	
		99% Power	-26dBc
1.4MHz	QPSK	1.11	1.33
	16QAM	1.28	1.20
3MHz	QPSK	1.13	1.48
	16QAM	1.87	1.17
5MHz	QPSK	1.13	1.35
	16QAM	0.97	1.35
10MHz	QPSK	1.12	1.33
	16QAM	0.99	1.42
15MHz	QPSK	1.15	1.37
	16QAM	0.99	1.35
20MHz	QPSK	1.15	1.41
	16QAM	0.99	1.53

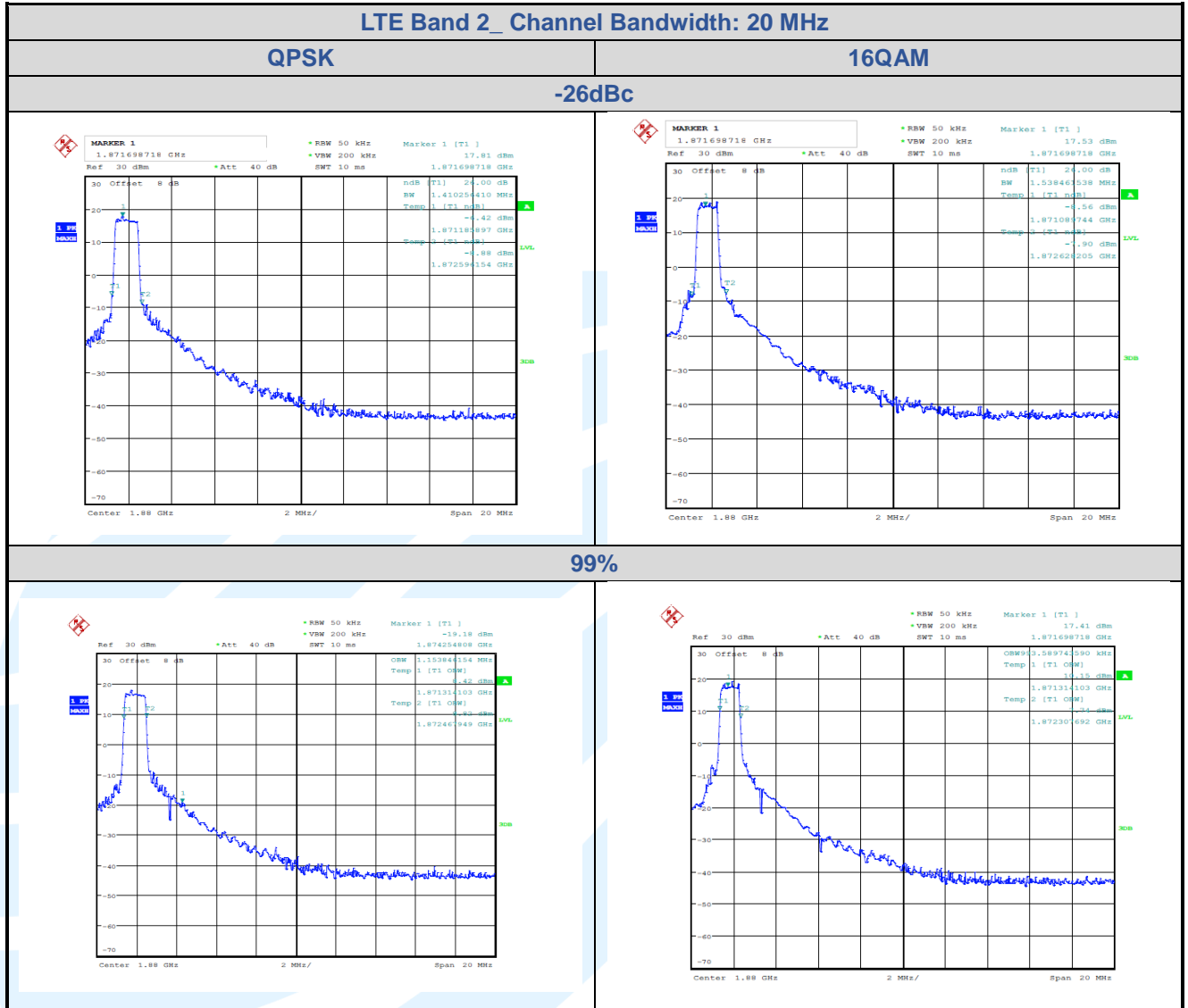






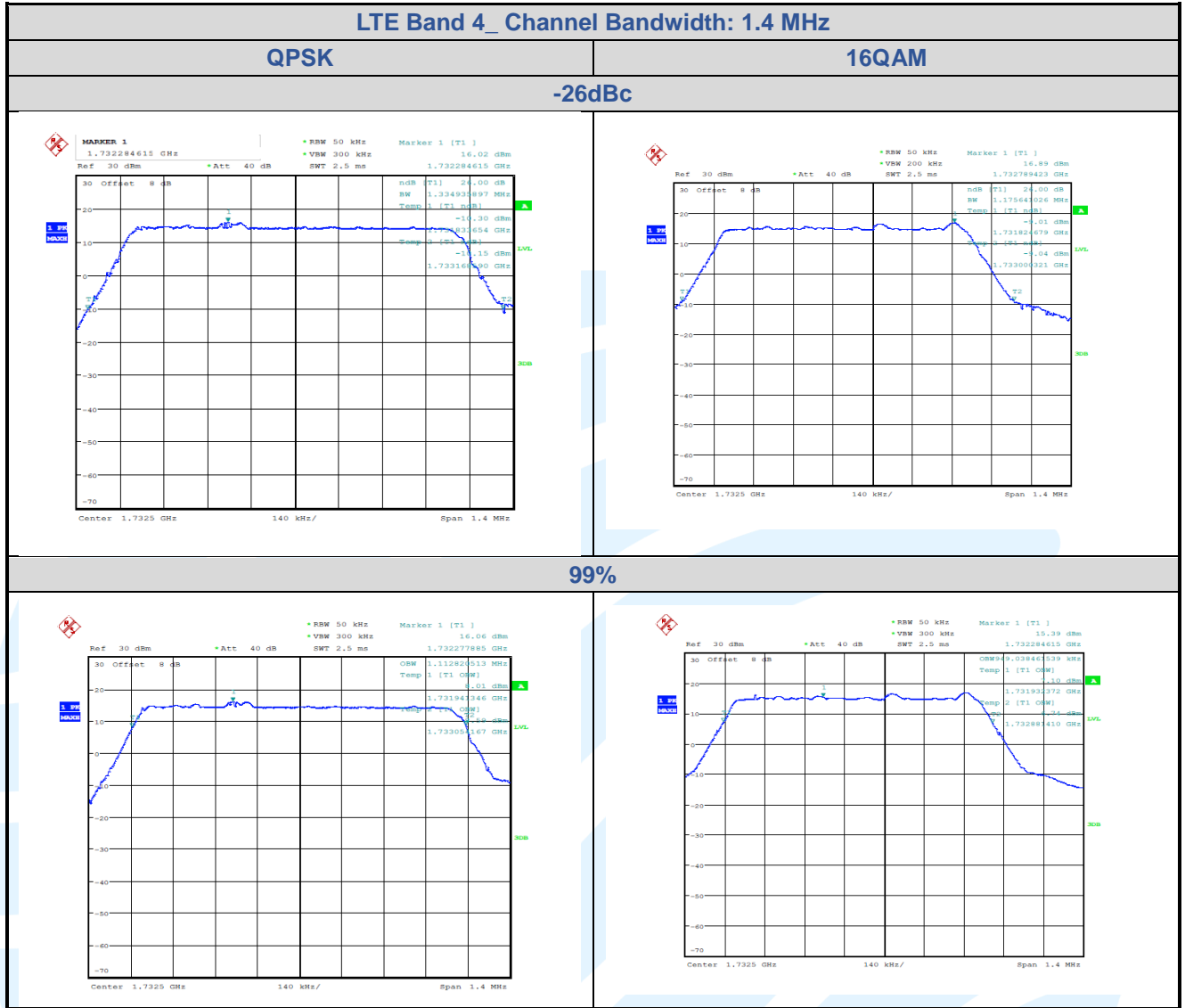


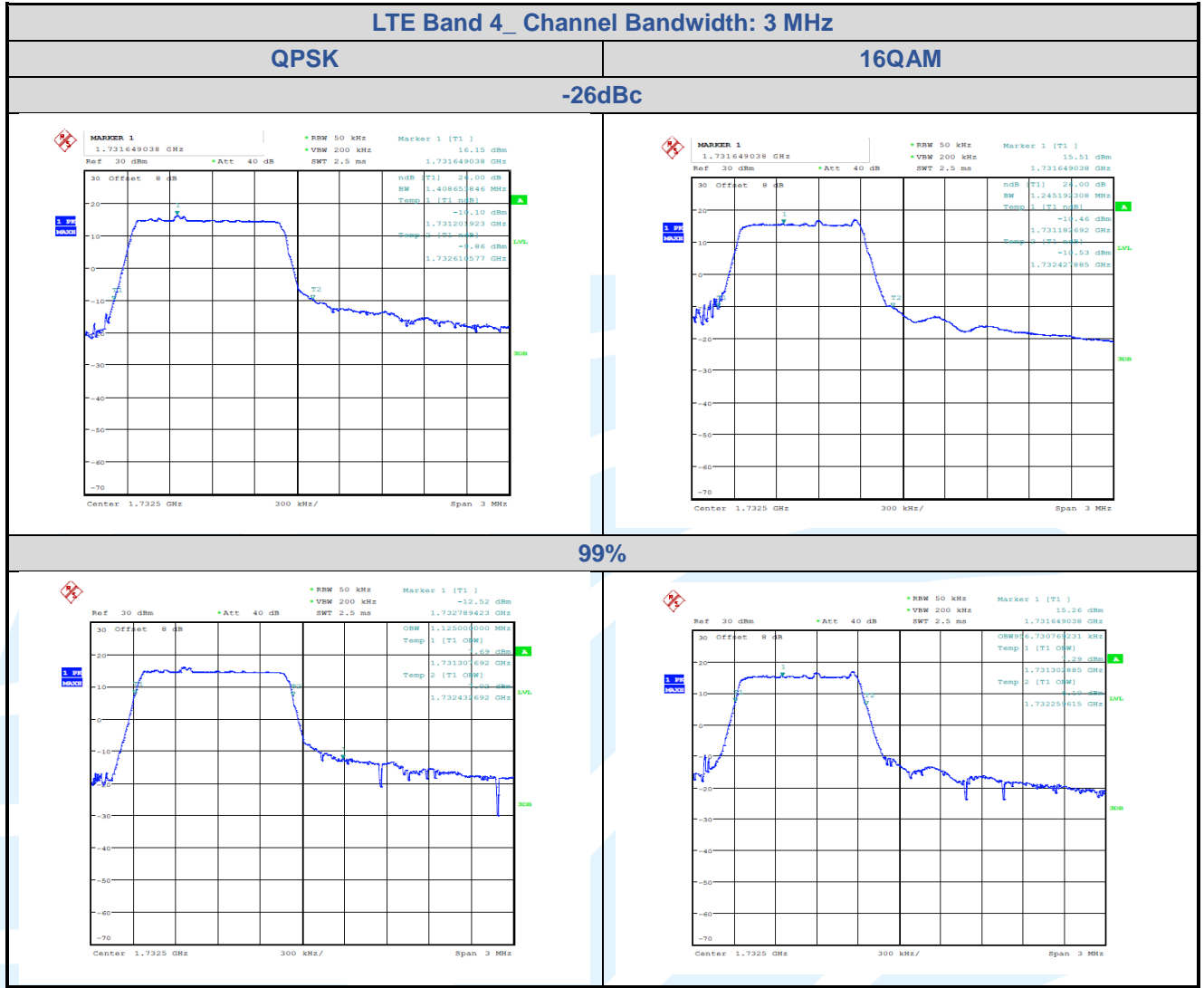


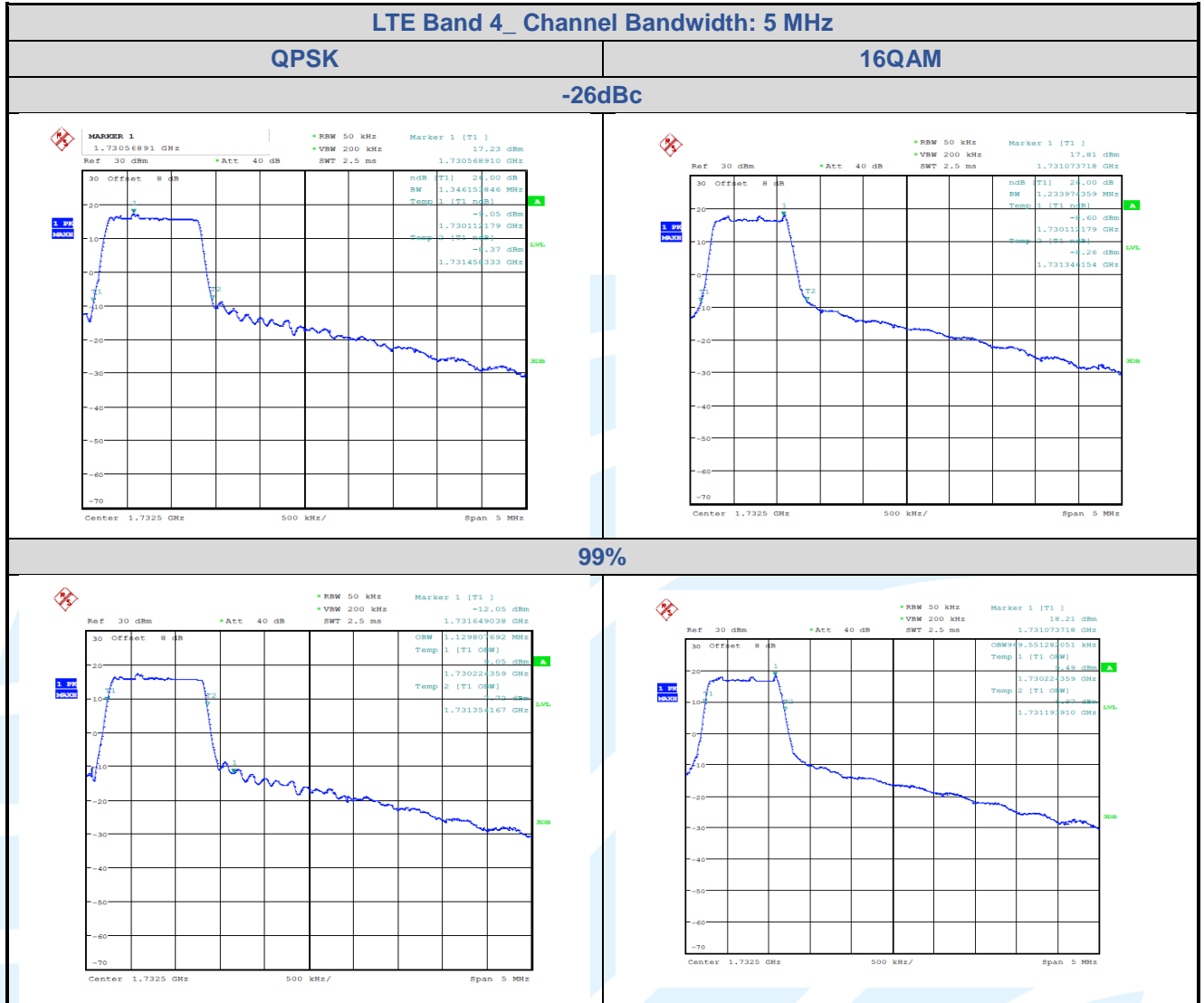


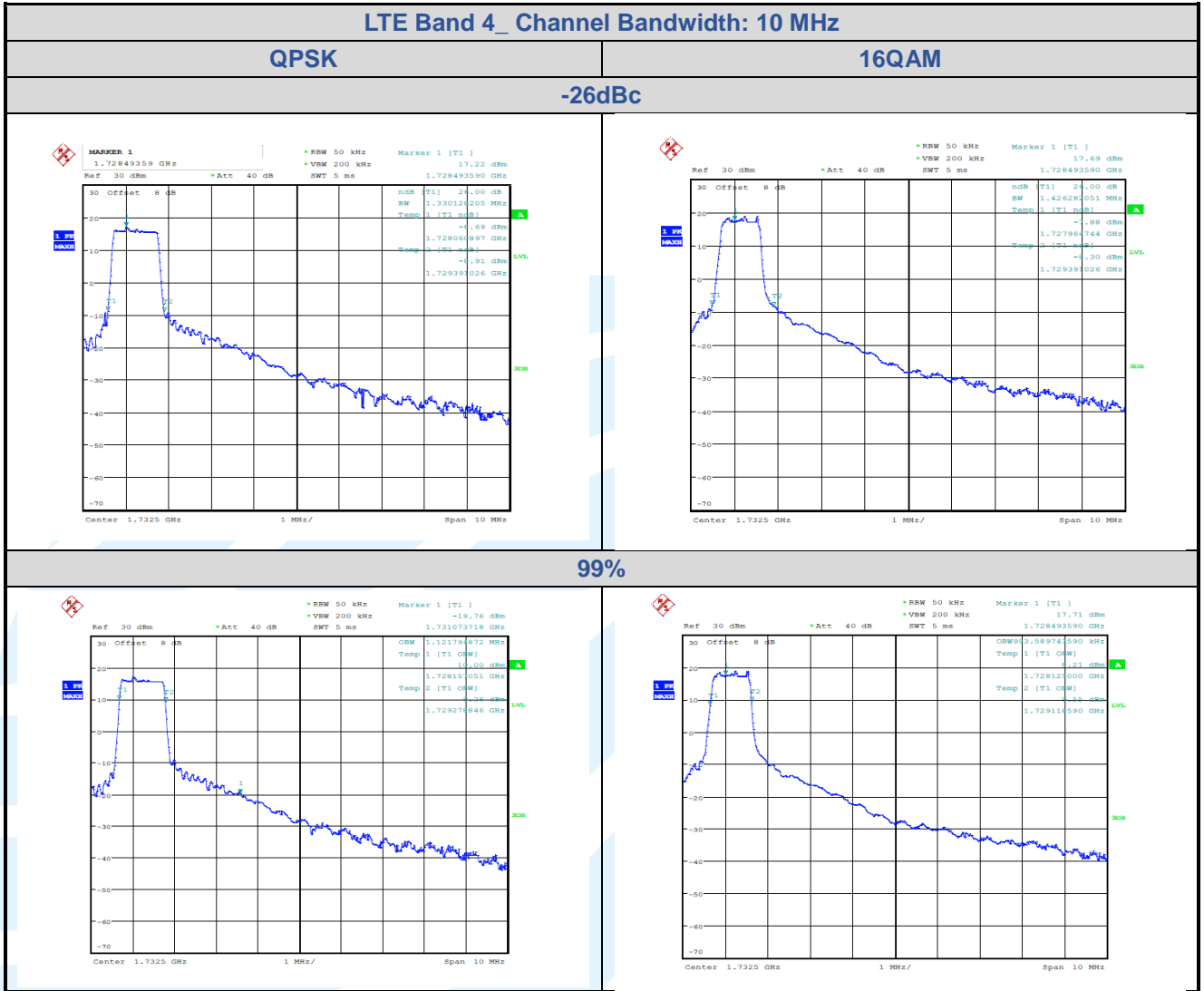
5.5.2 LTE Band 4

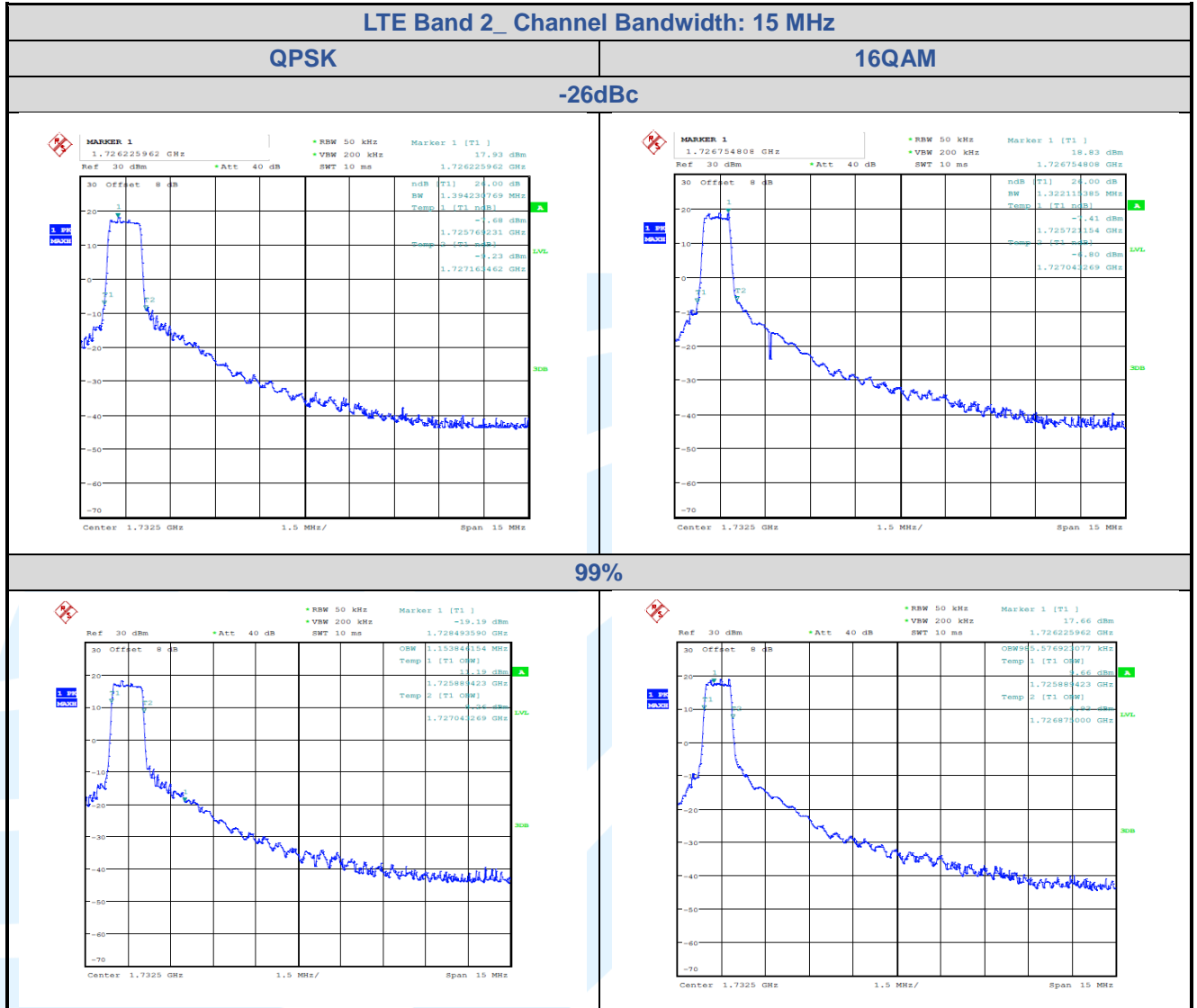
LTE Band 4			
Bandwidth	Modulation	Bandwidth(MHz)	
		99% Power	-26dBc
1.4MHz	QPSK	1.11	1.33
	16QAM	0.99	1.18
3MHz	QPSK	1.13	1.41
	16QAM	0.98	1.25
5MHz	QPSK	1.13	1.35
	16QAM	1.00	1.23
10MHz	QPSK	1.12	1.33
	16QAM	0.94	1.43
15MHz	QPSK	1.15	1.39
	16QAM	0.96	1.32
20MHz	QPSK	1.15	1.41
	16QAM	0.99	1.12

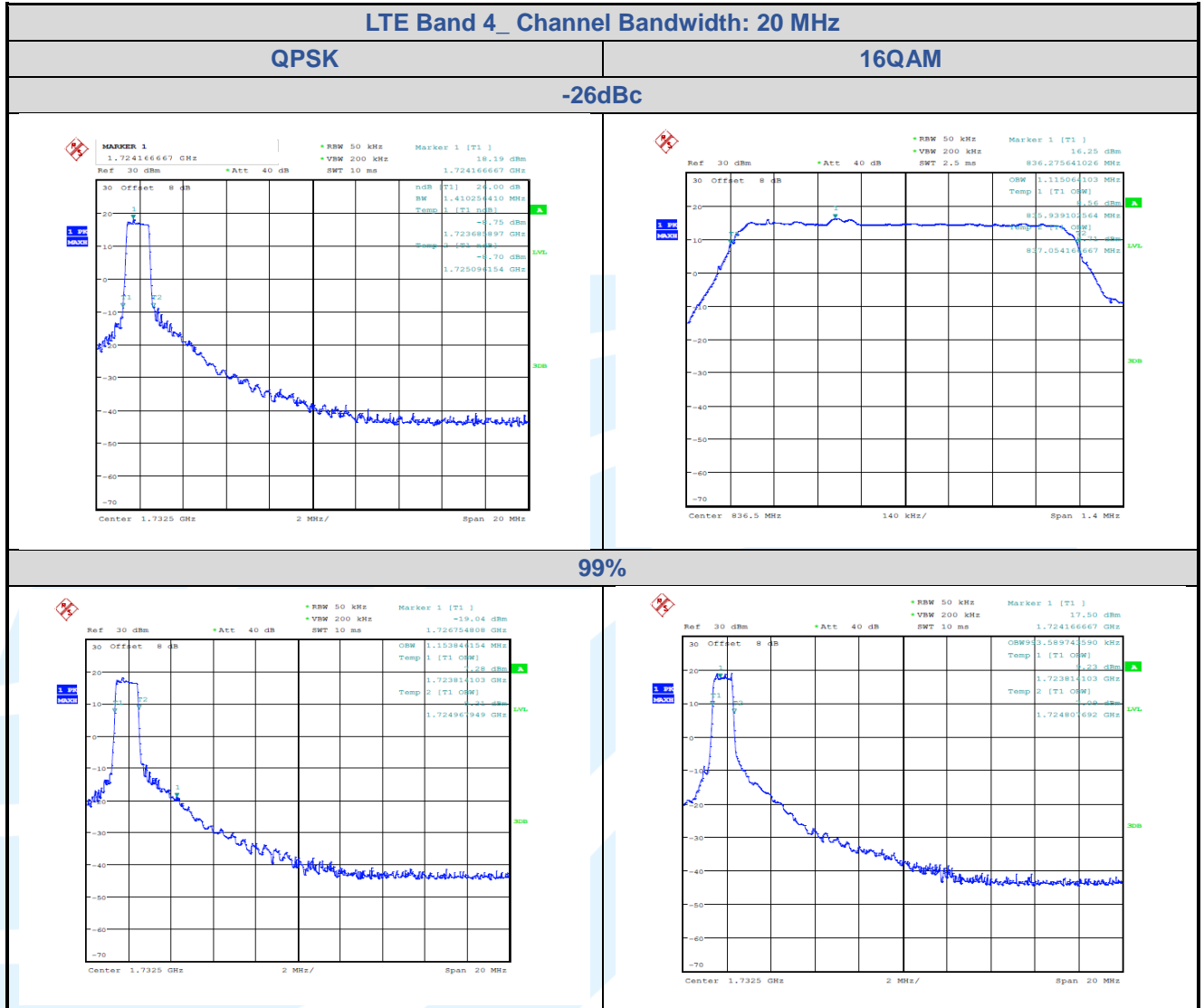






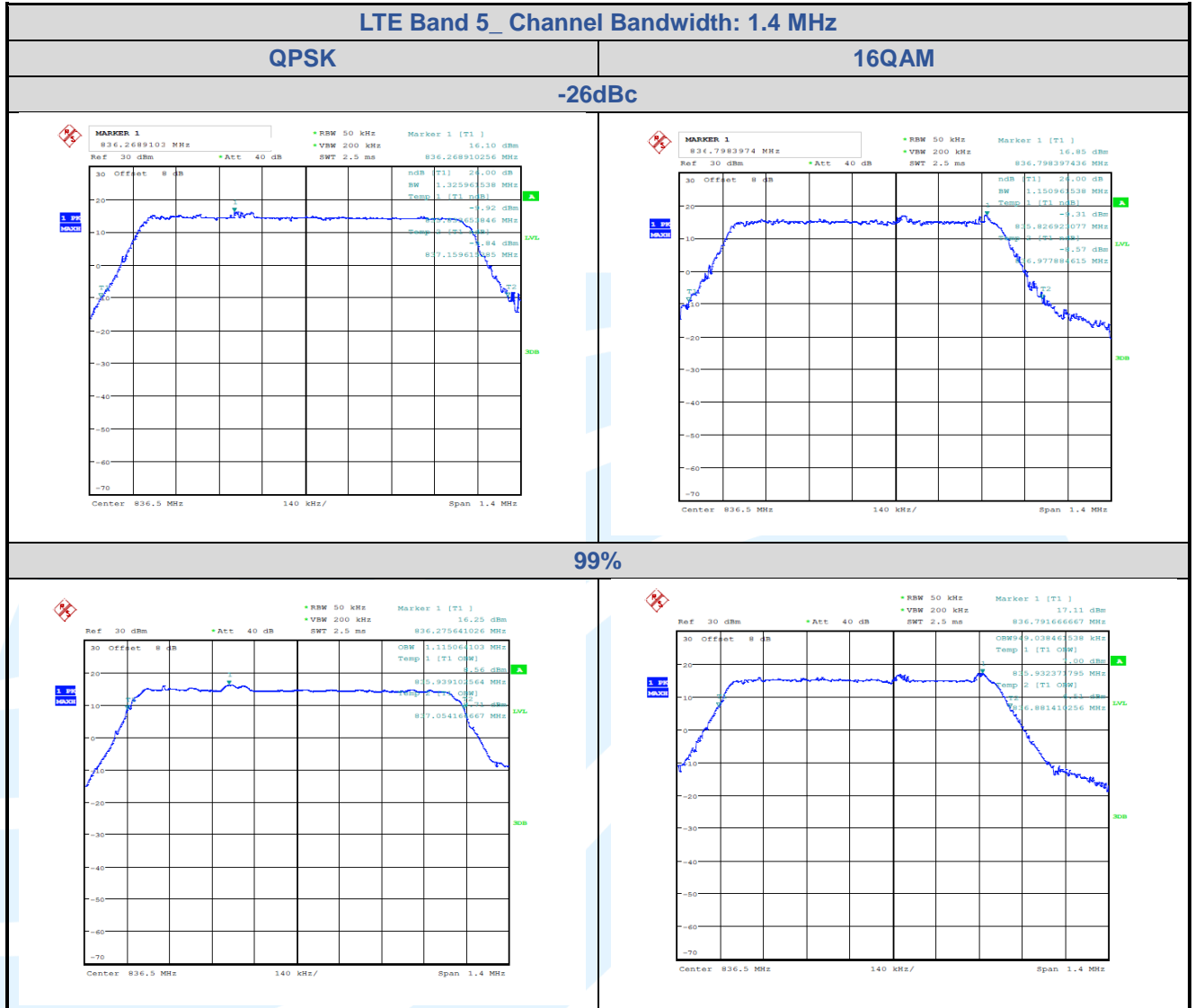


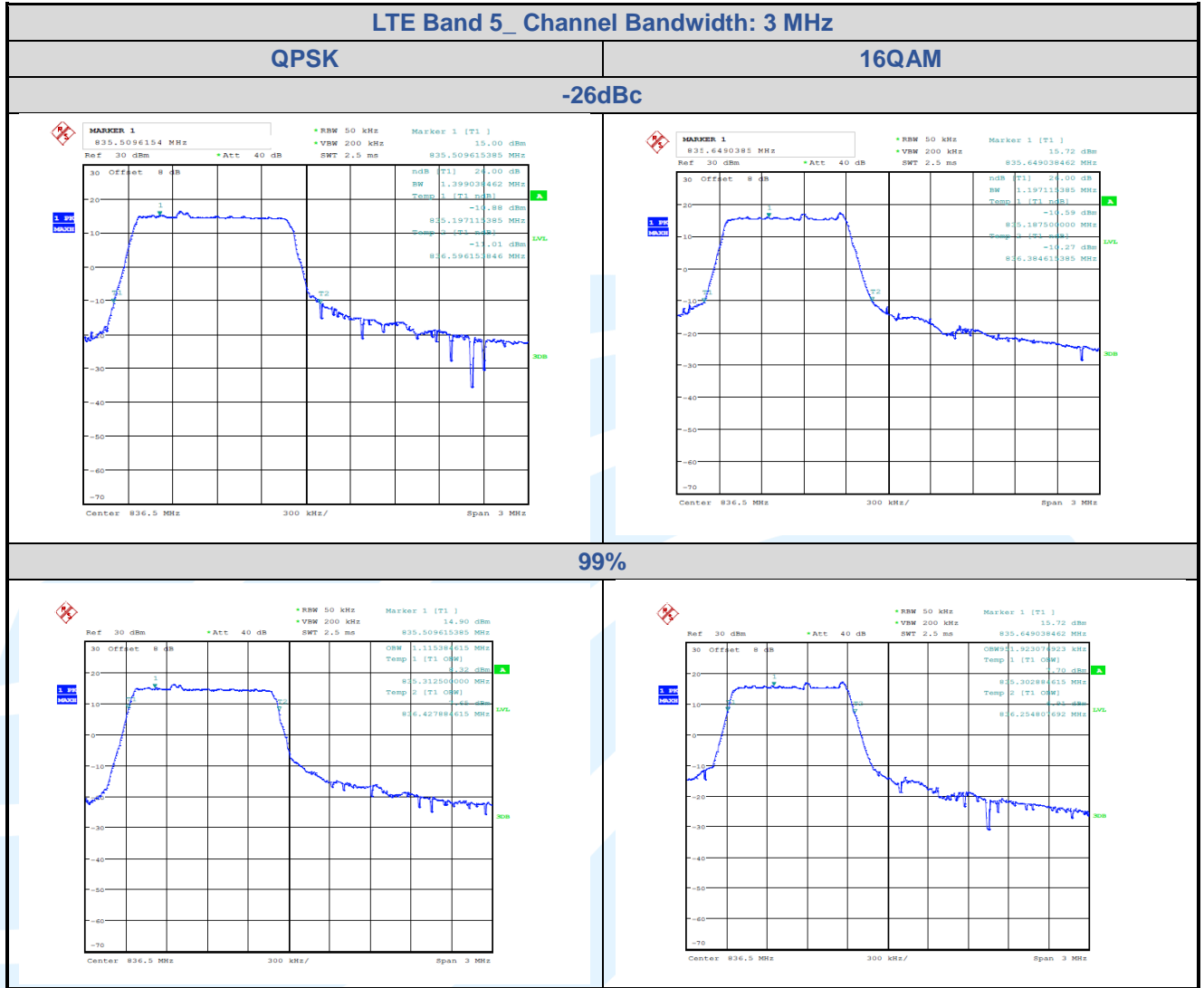


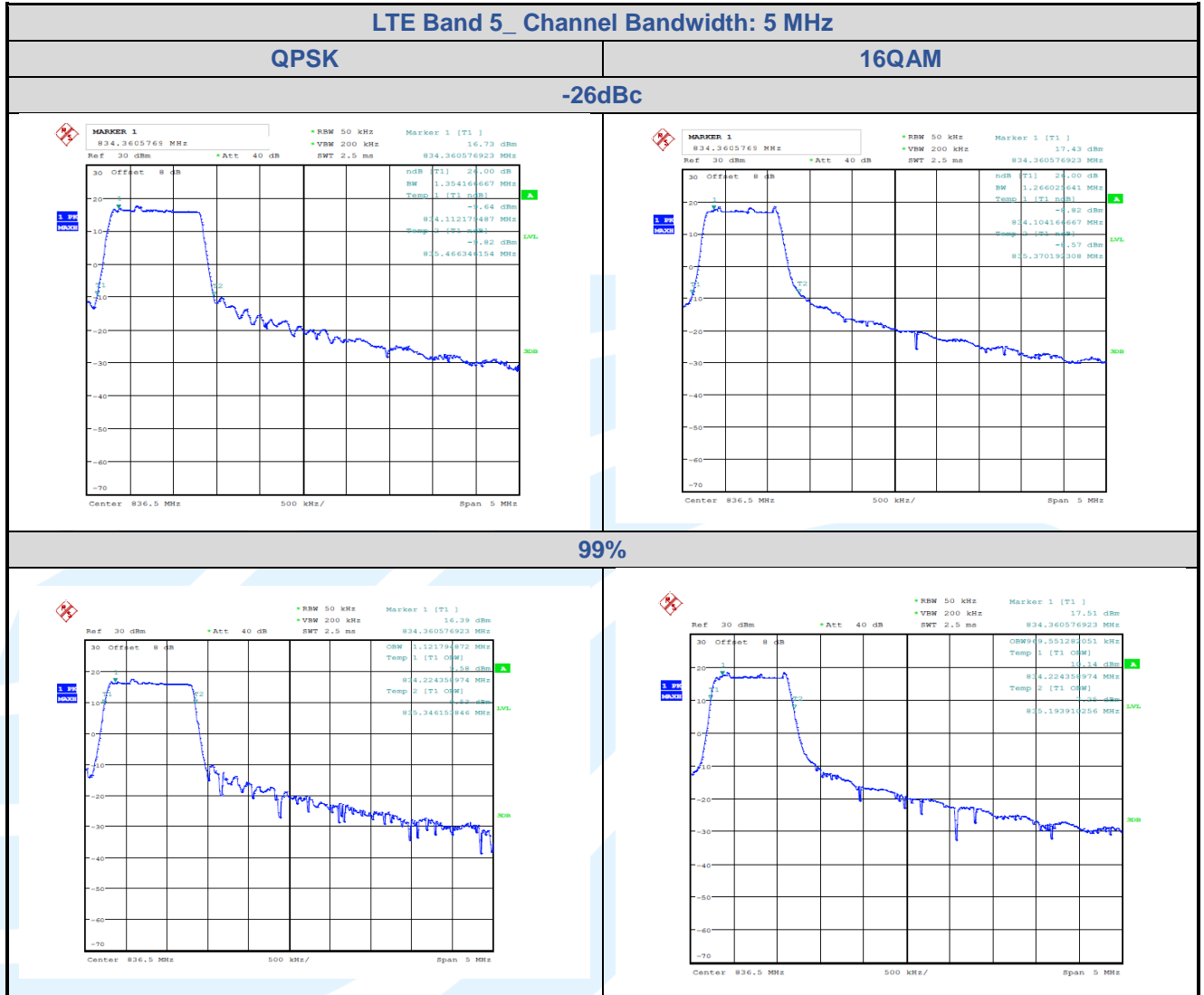


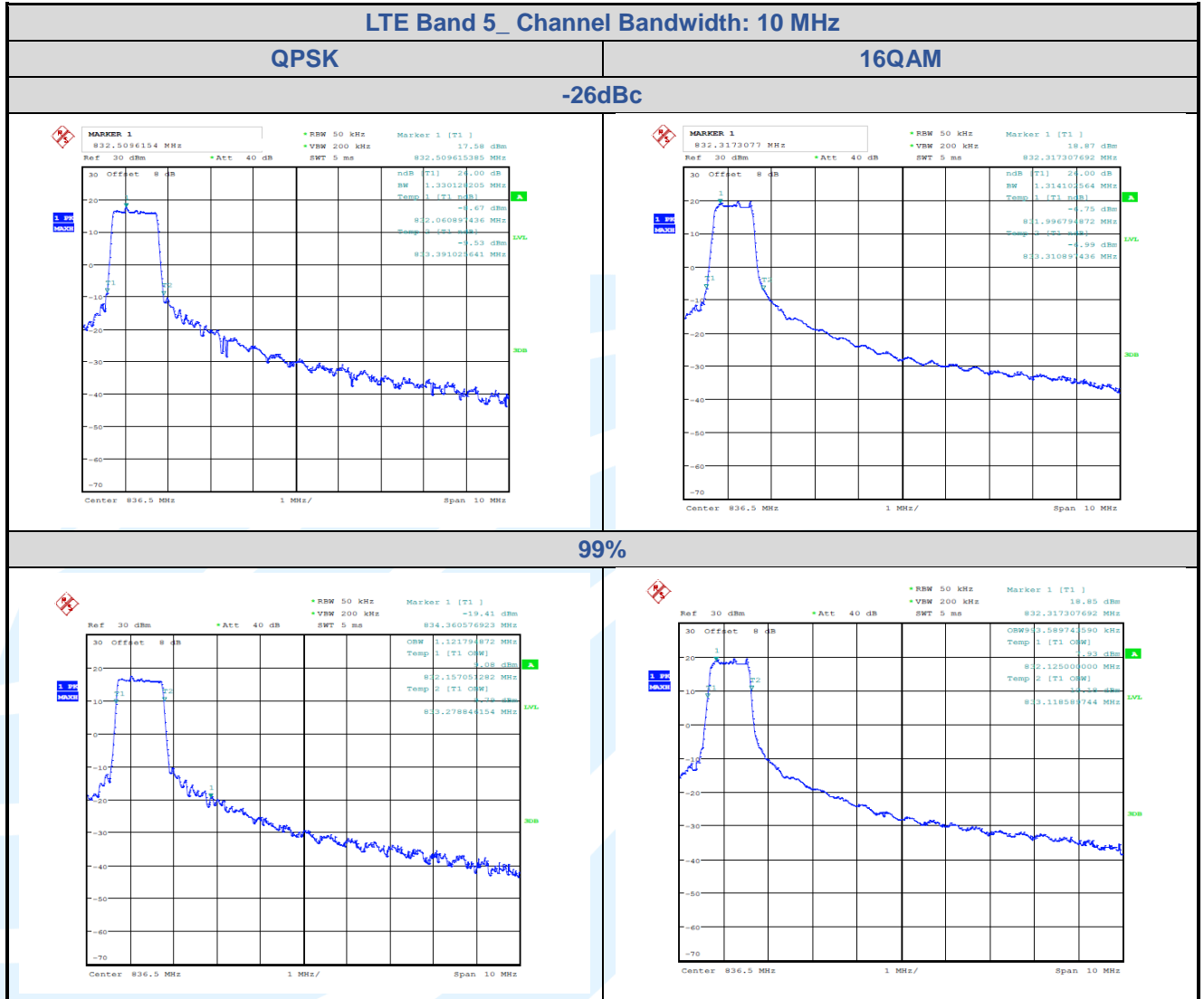
5.5.3 LTE Band 5

LTE Band 5			
Bandwidth	Modulation	Bandwidth(MHz)	
		99% Power	-26dBc
1.4MHz	QPSK	1.12	1.40
	16QAM	0.95	1.20
3MHz	QPSK	1.12	1.40
	16QAM	0.95	1.20
5MHz	QPSK	1.12	1.35
	16QAM	0.97	1.27
10MHz	QPSK	1.12	1.33
	16QAM	0.99	1.31



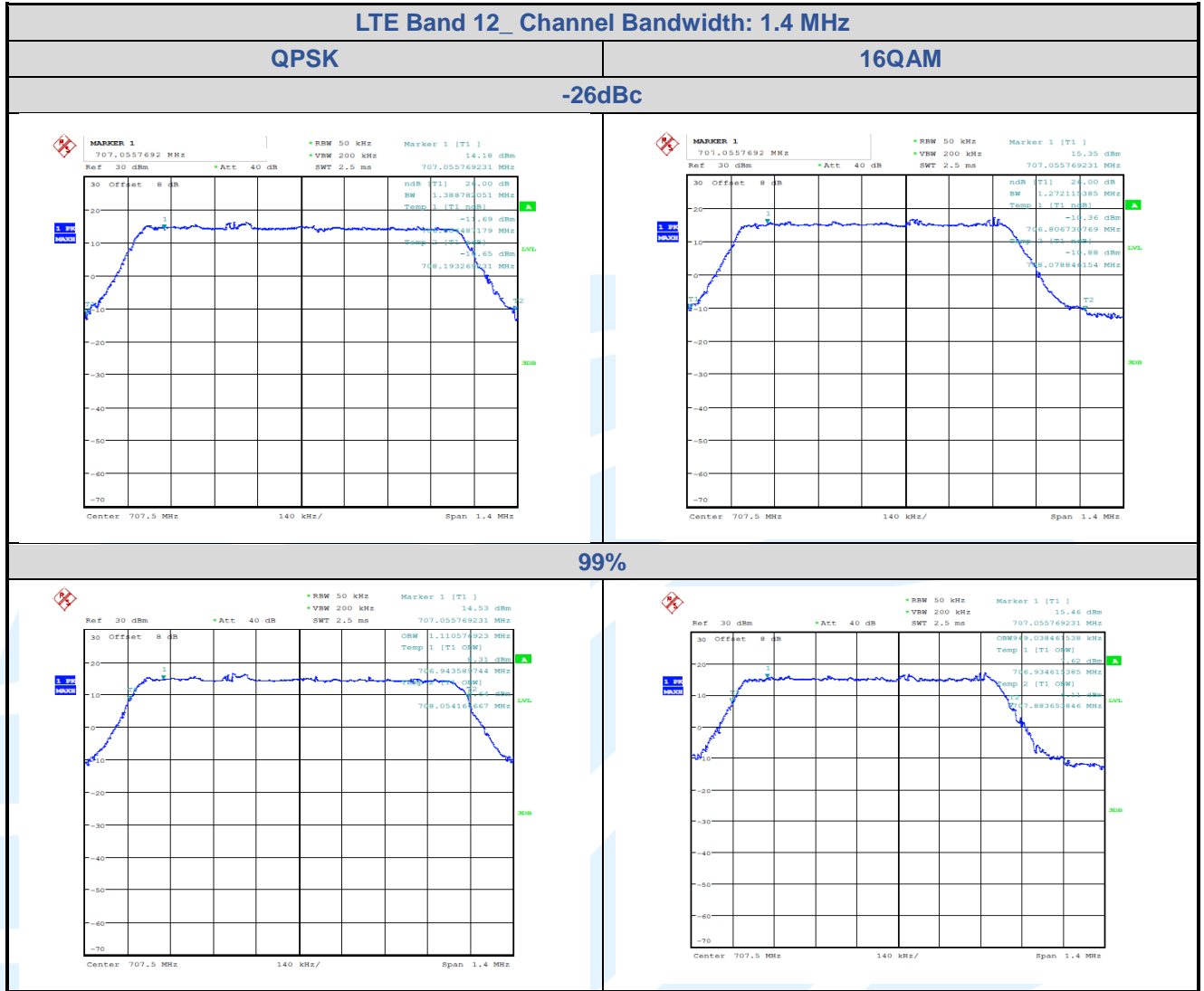


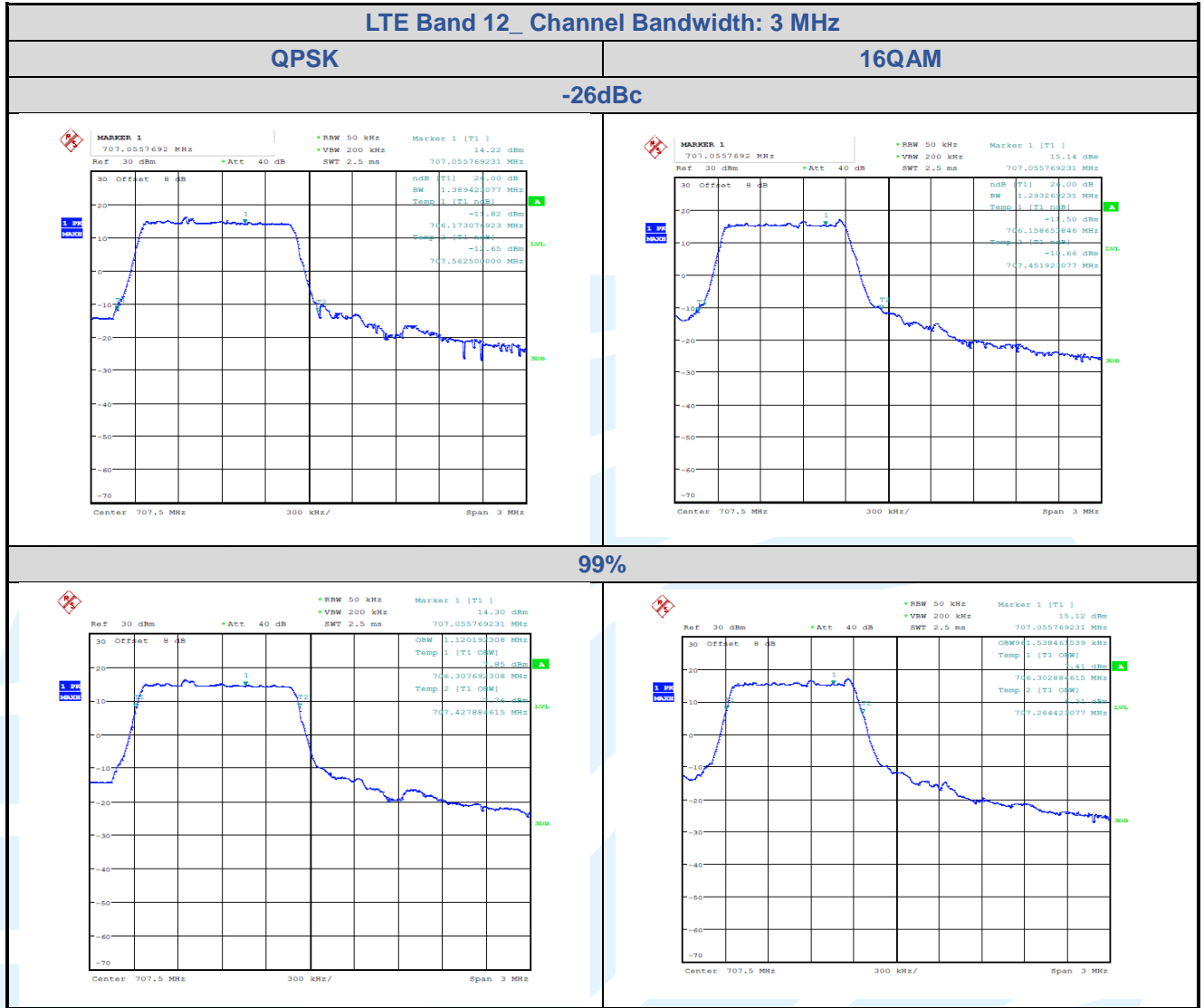


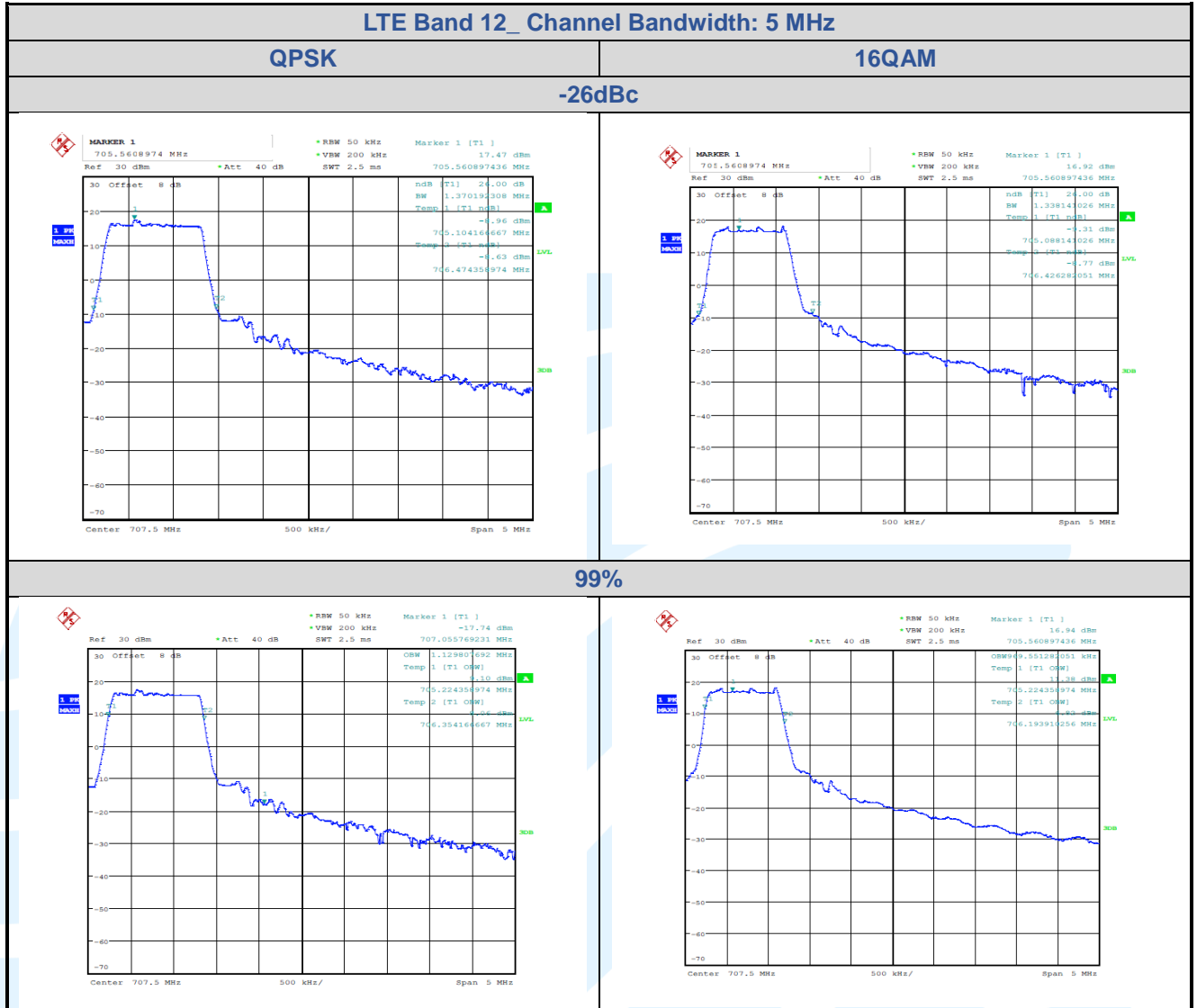


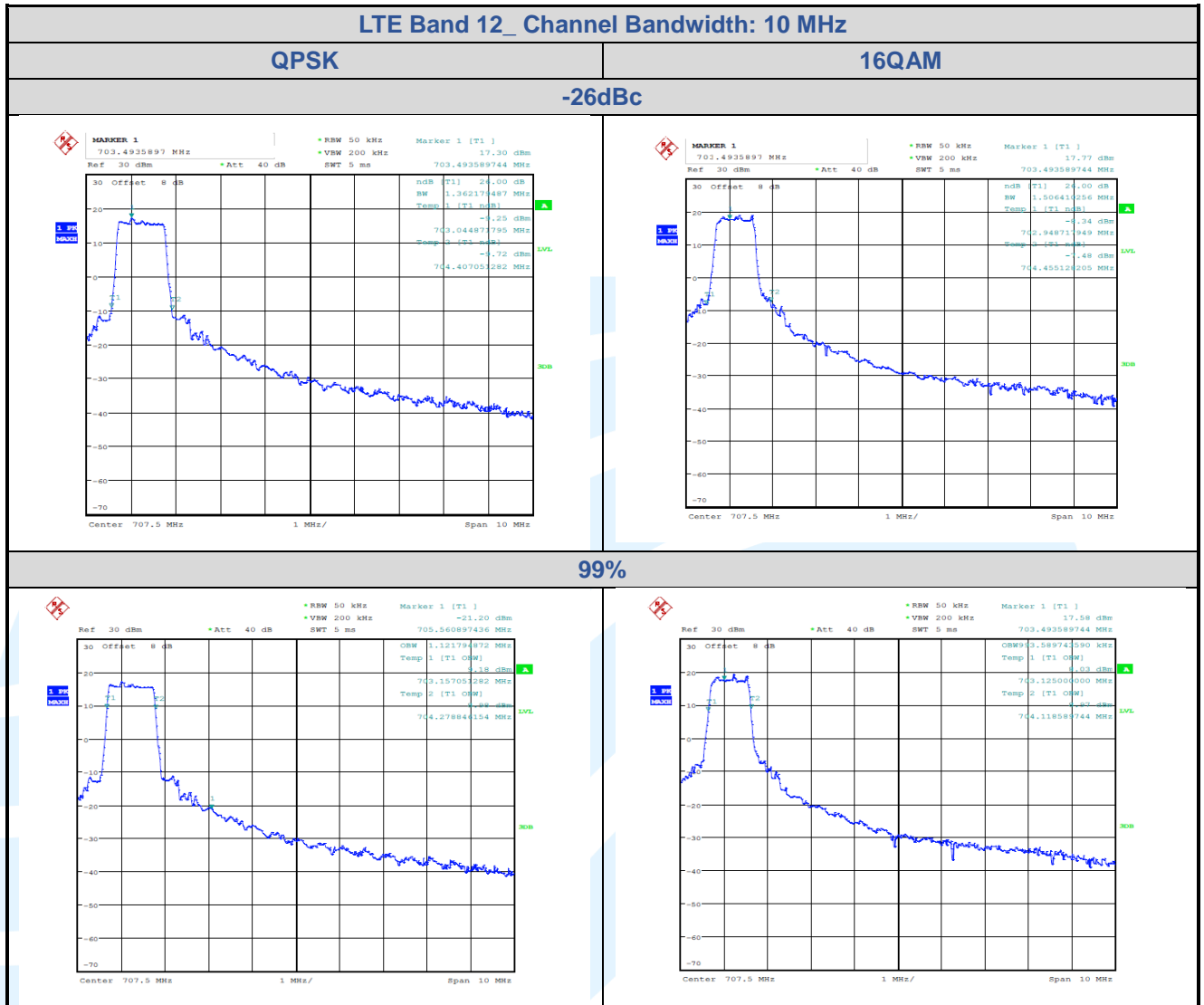
5.5.4 LTE Band 12

LTE Band 12			
Bandwidth	Modulation	Bandwidth(MHz)	
		99% Power	-26dBc
1.4MHz	QPSK	1.11	1.39
	16QAM	0.95	1.27
3MHz	QPSK	1.12	1.39
	16QAM	0.96	1.29
5MHz	QPSK	1.13	1.37
	16QAM	0.97	1.34
10MHz	QPSK	1.12	1.36
	16QAM	0.99	1.51





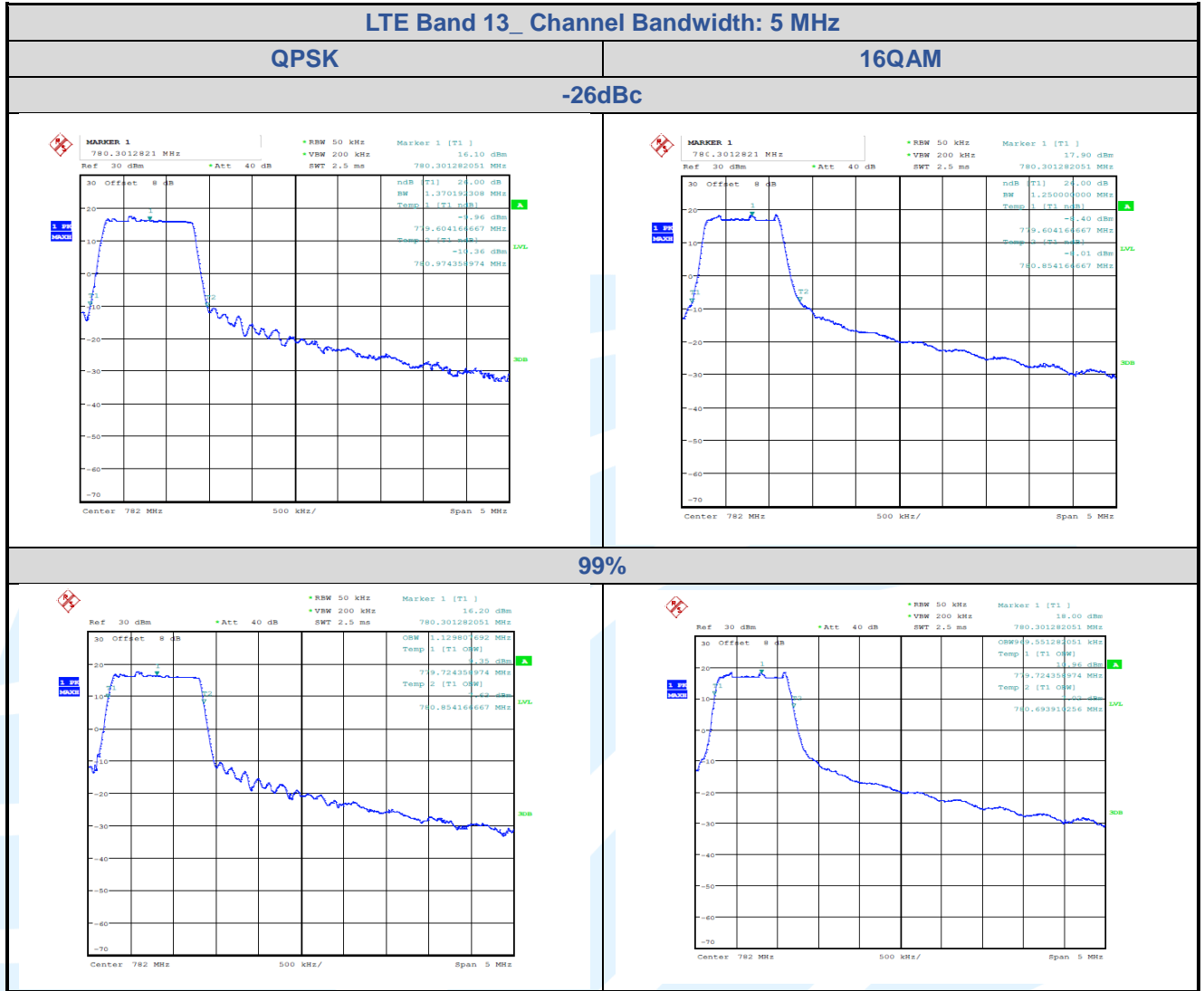


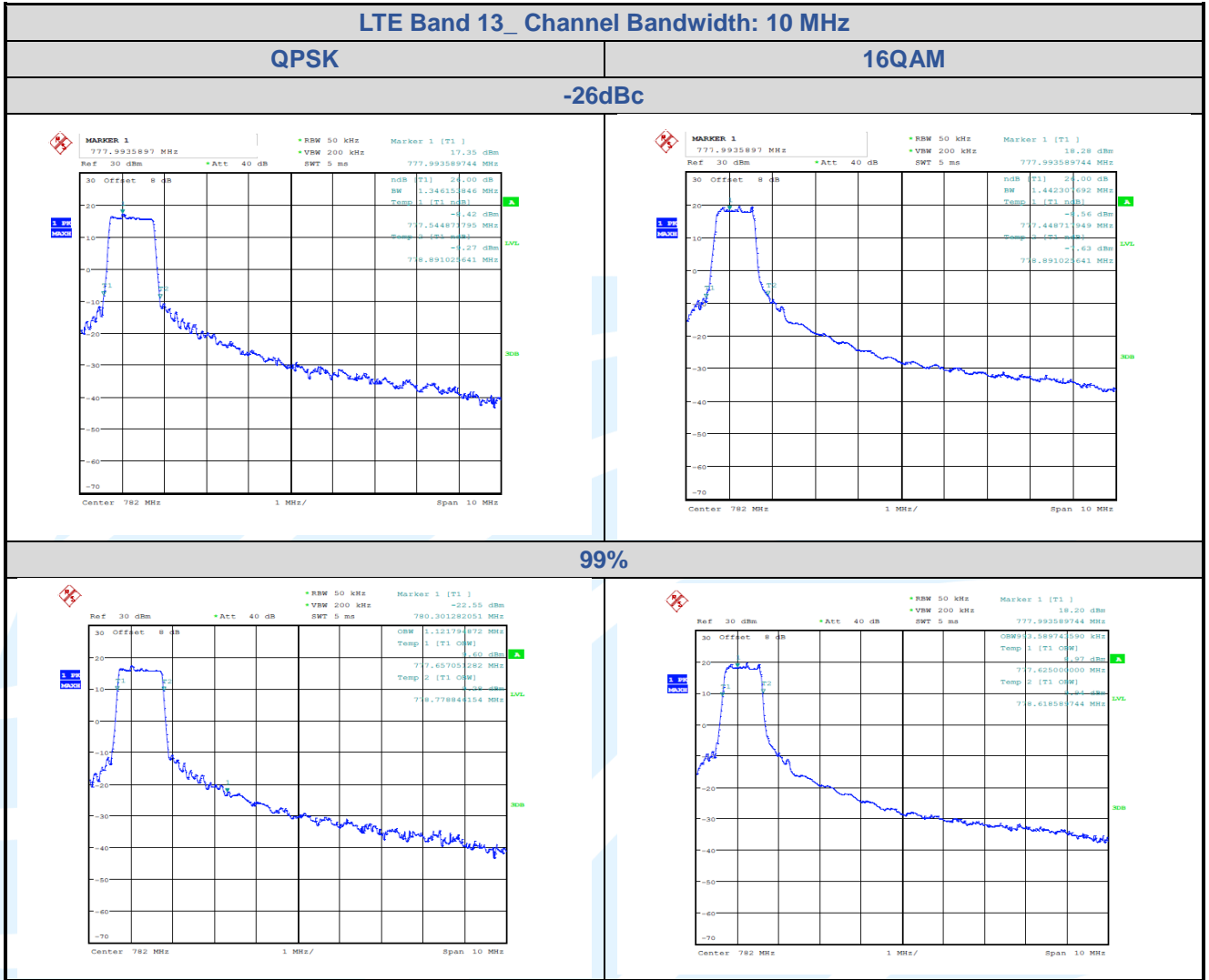


5.5.5 LTE Band 13

LTE Band 13			
Bandwidth	Modulation	Bandwidth(MHz)	
		99% Power	-26dBc
5MHz	QPSK	1.13	1.37
	16QAM	0.97	1.25
10MHz	QPSK	1.12	1.35
	16QAM	0.99	1.44

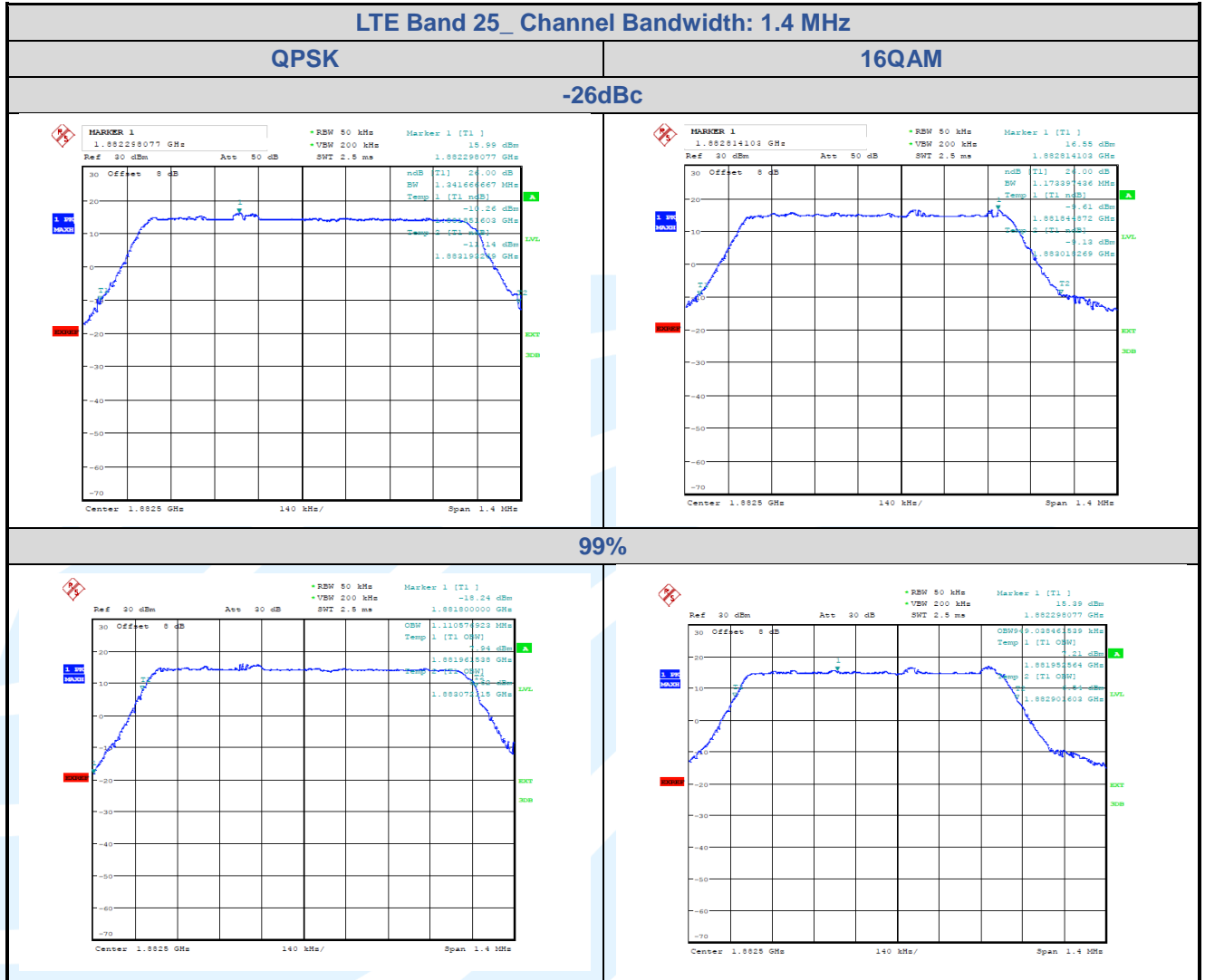


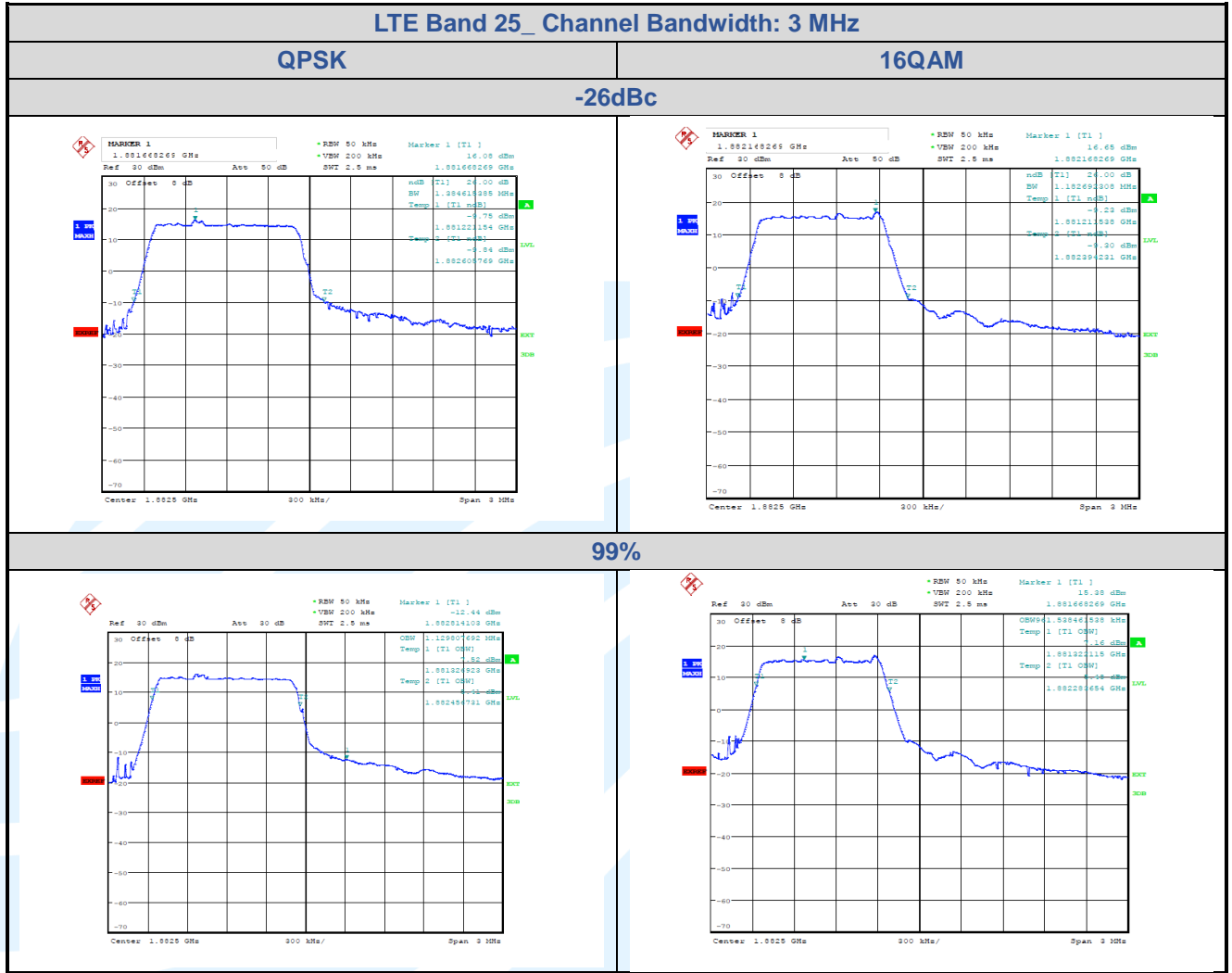


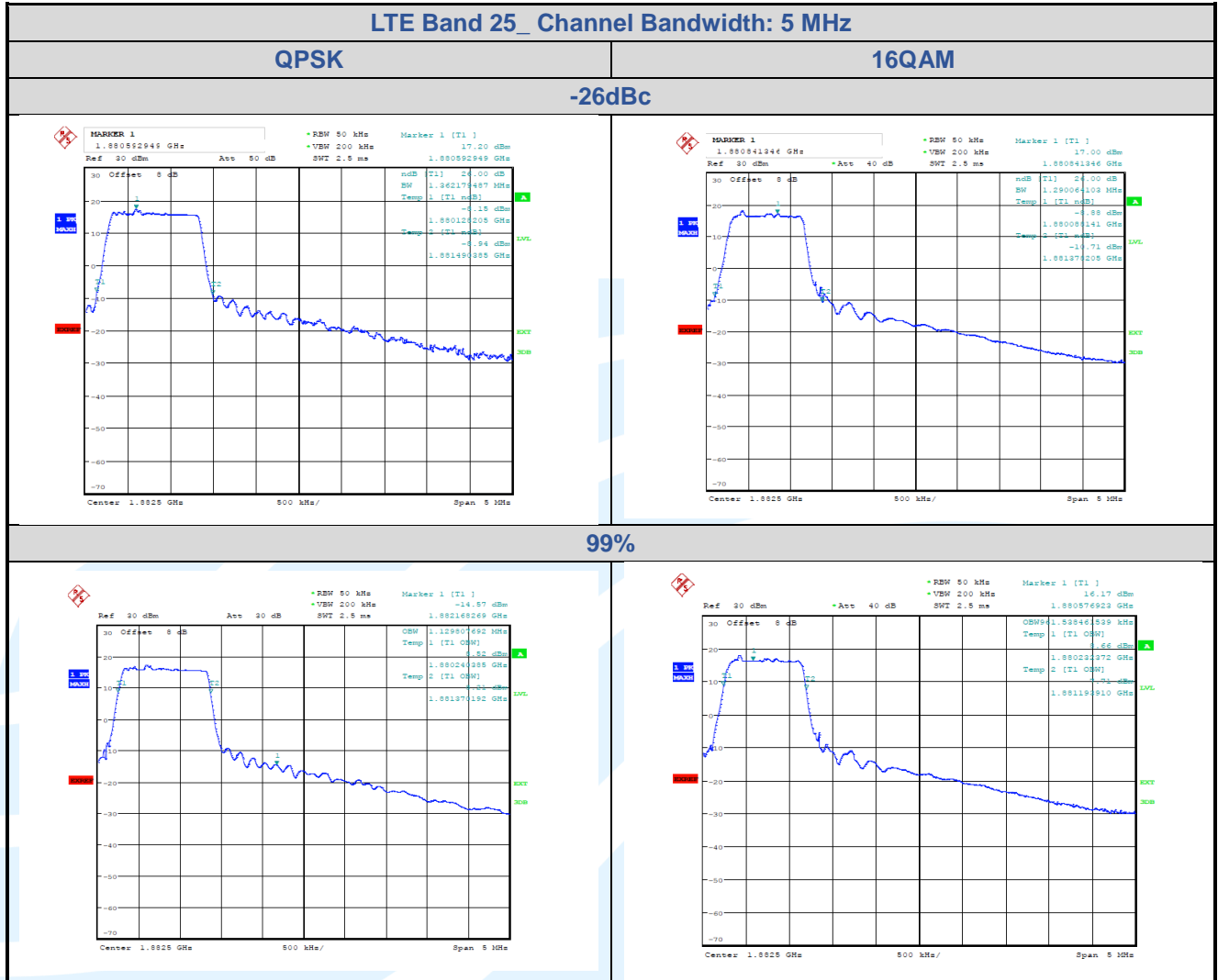


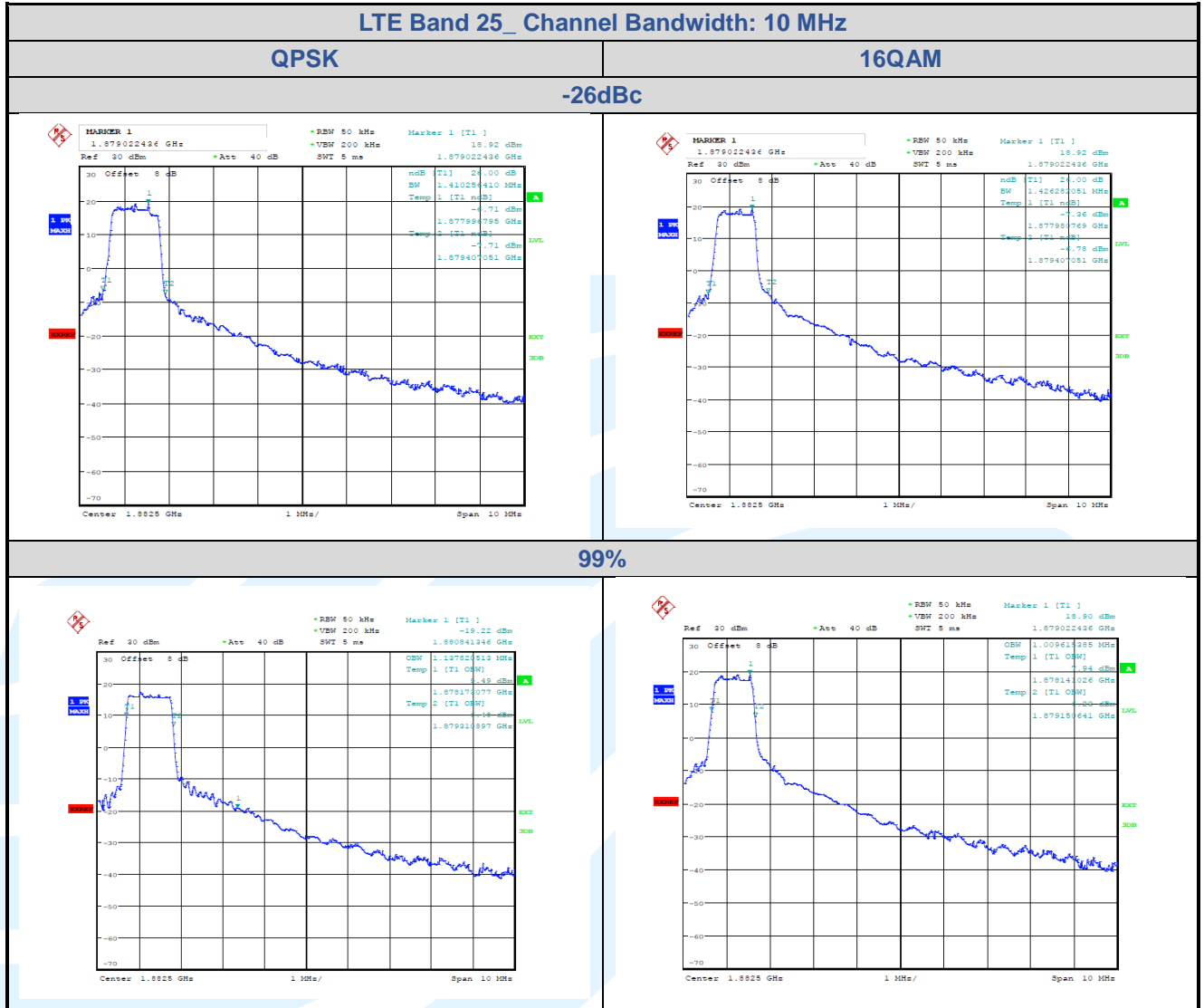
5.5.6 LTE Band 25

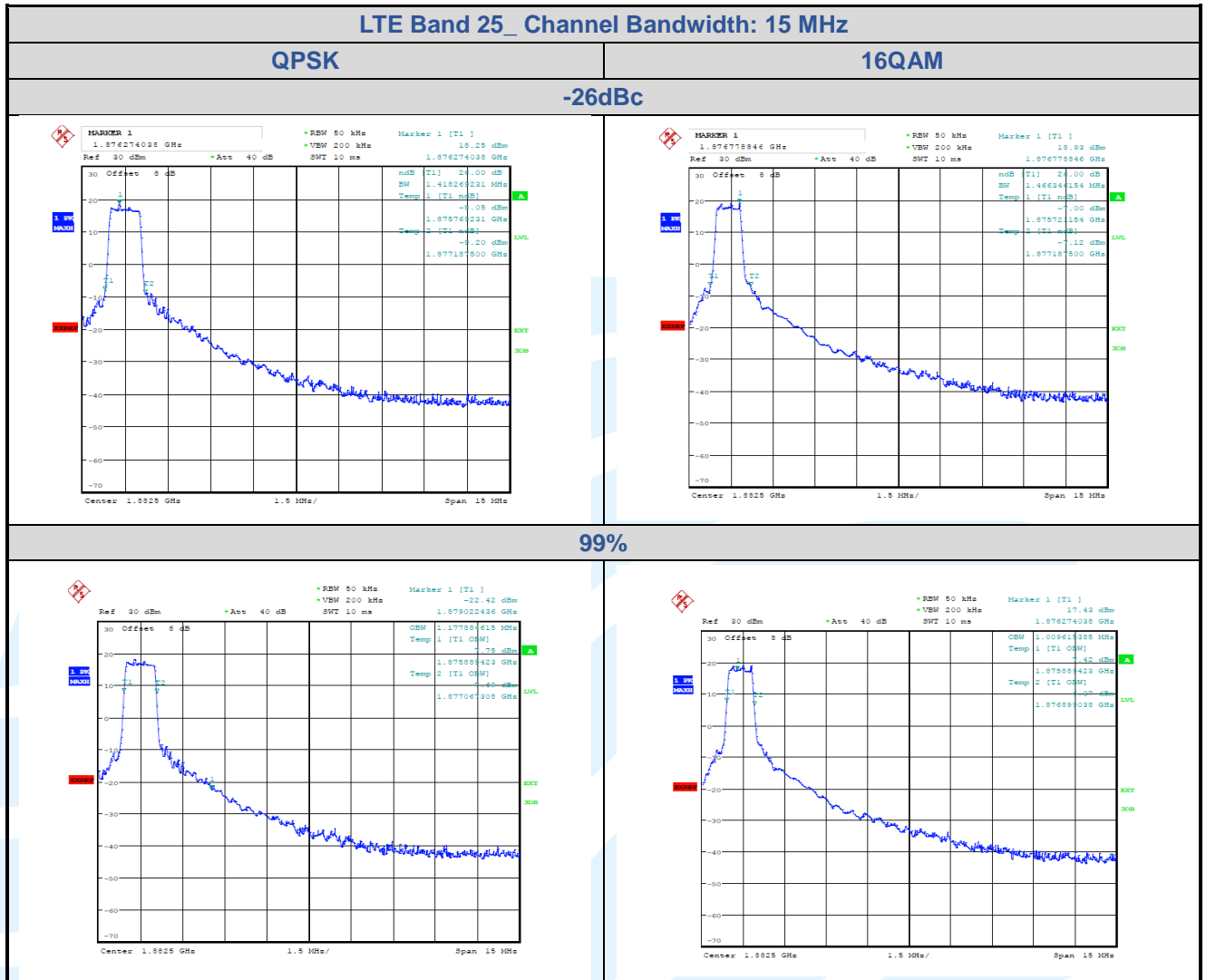
LTE Band 25			
Bandwidth	Modulation	Bandwidth(MHz)	
		99% Power	-26dBc
1.4MHz	QPSK	1.12	1.34
	16QAM	0.95	1.17
3MHz	QPSK	1.13	1.39
	16QAM	0.96	1.18
5MHz	QPSK	1.13	1.36
	16QAM	0.96	1.18
10MHz	QPSK	1.13	1.36
	16QAM	0.96	1.29
15MHz	QPSK	1.13	1.41
	16QAM	1.01	1.47
20MHz	QPSK	1.12	1.41
	16QAM	1.03	1.44

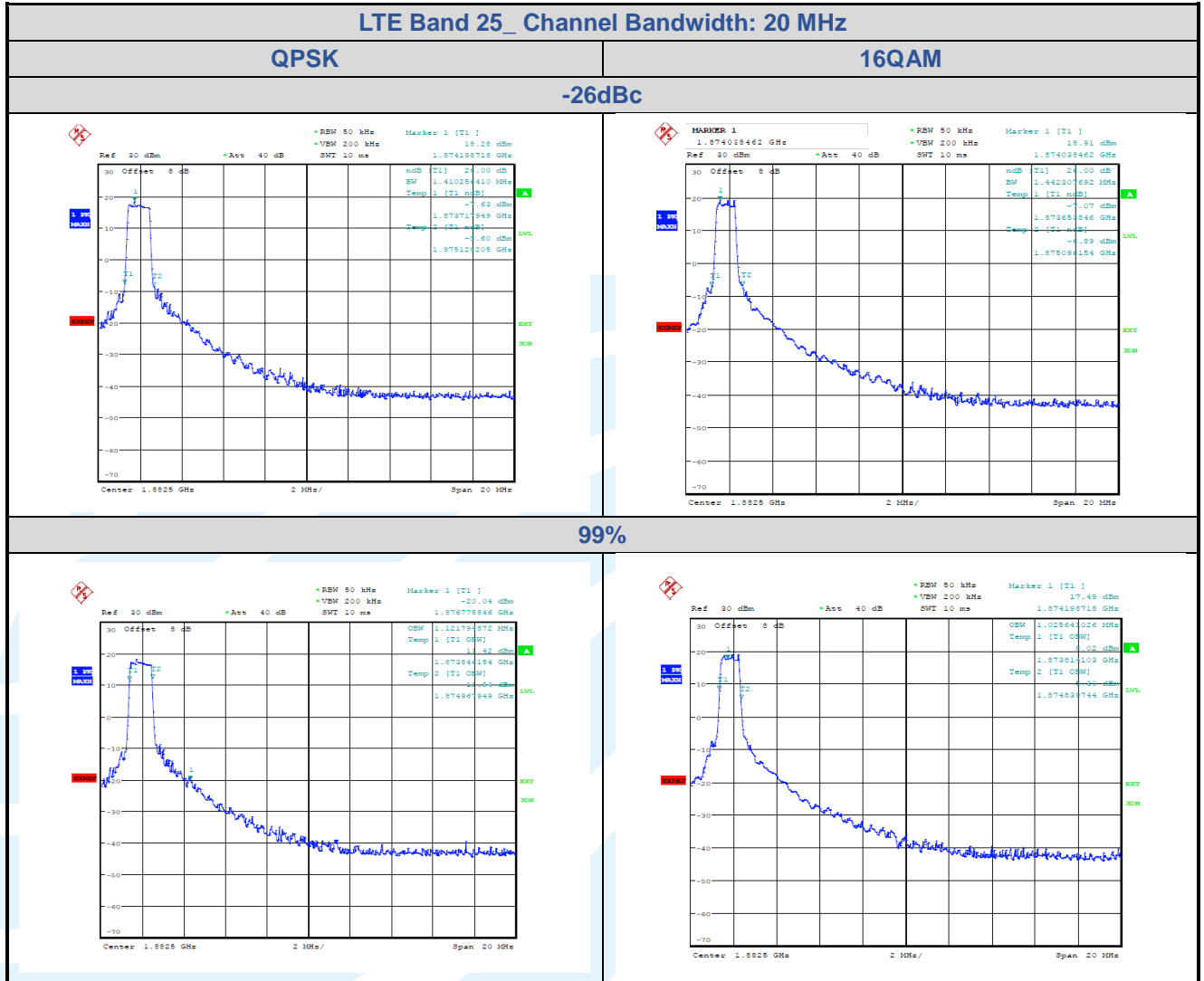












5.5.7 LTE Band 26

LTE Band 26			
Bandwidth	Modulation	Bandwidth(MHz)	
		99% Power	-26dBc
1.4MHz	QPSK	1.12	1.33
	16QAM	0.96	1.20
3MHz	QPSK	1.12	1.38
	16QAM	0.95	1.20
5MHz	QPSK	1.13	1.35
	16QAM	0.97	1.23
10MHz	QPSK	1.12	1.33
	16QAM	0.98	1.35
15MHz	QPSK	1.15	1.39
	16QAM	0.99	1.42

