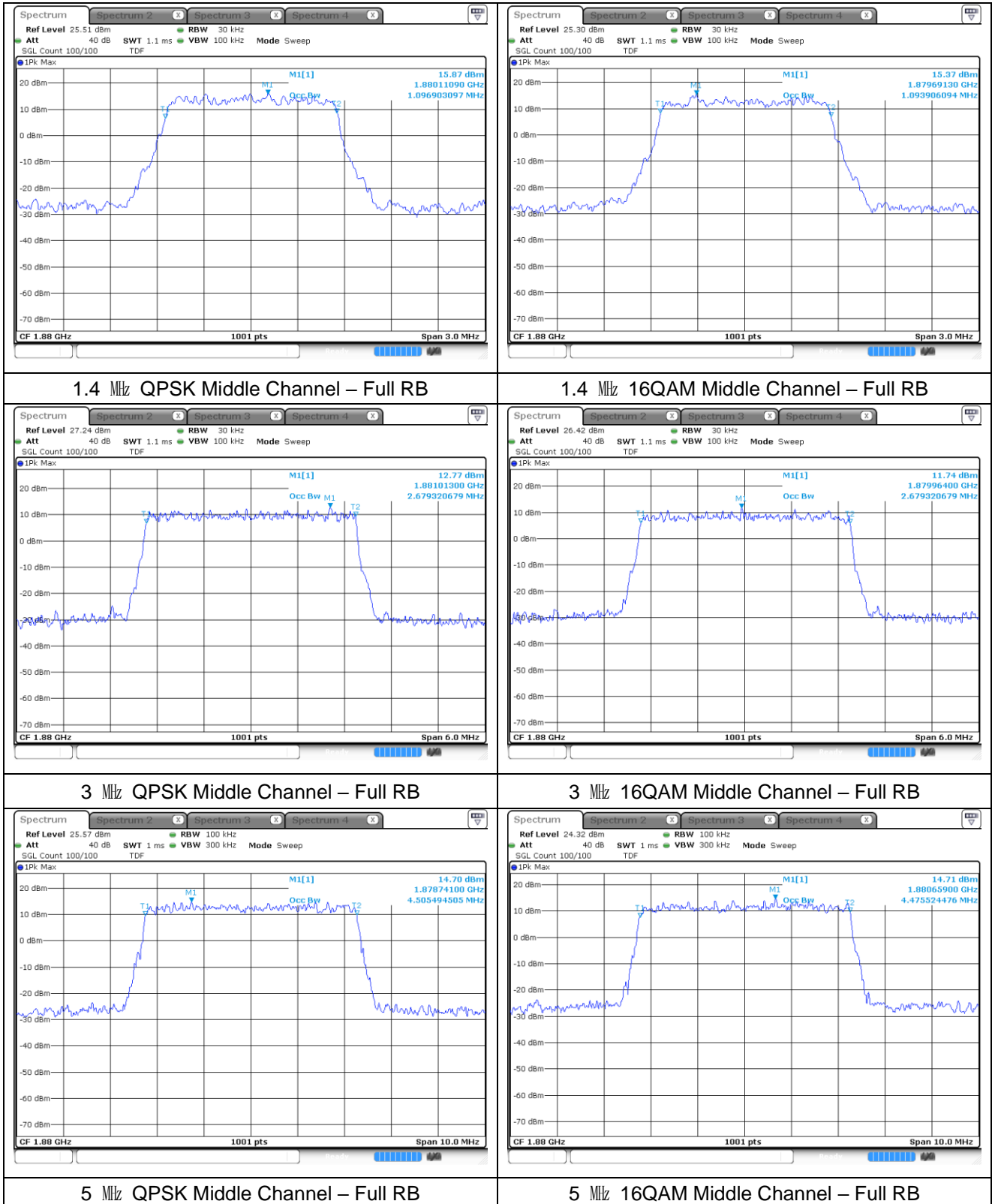
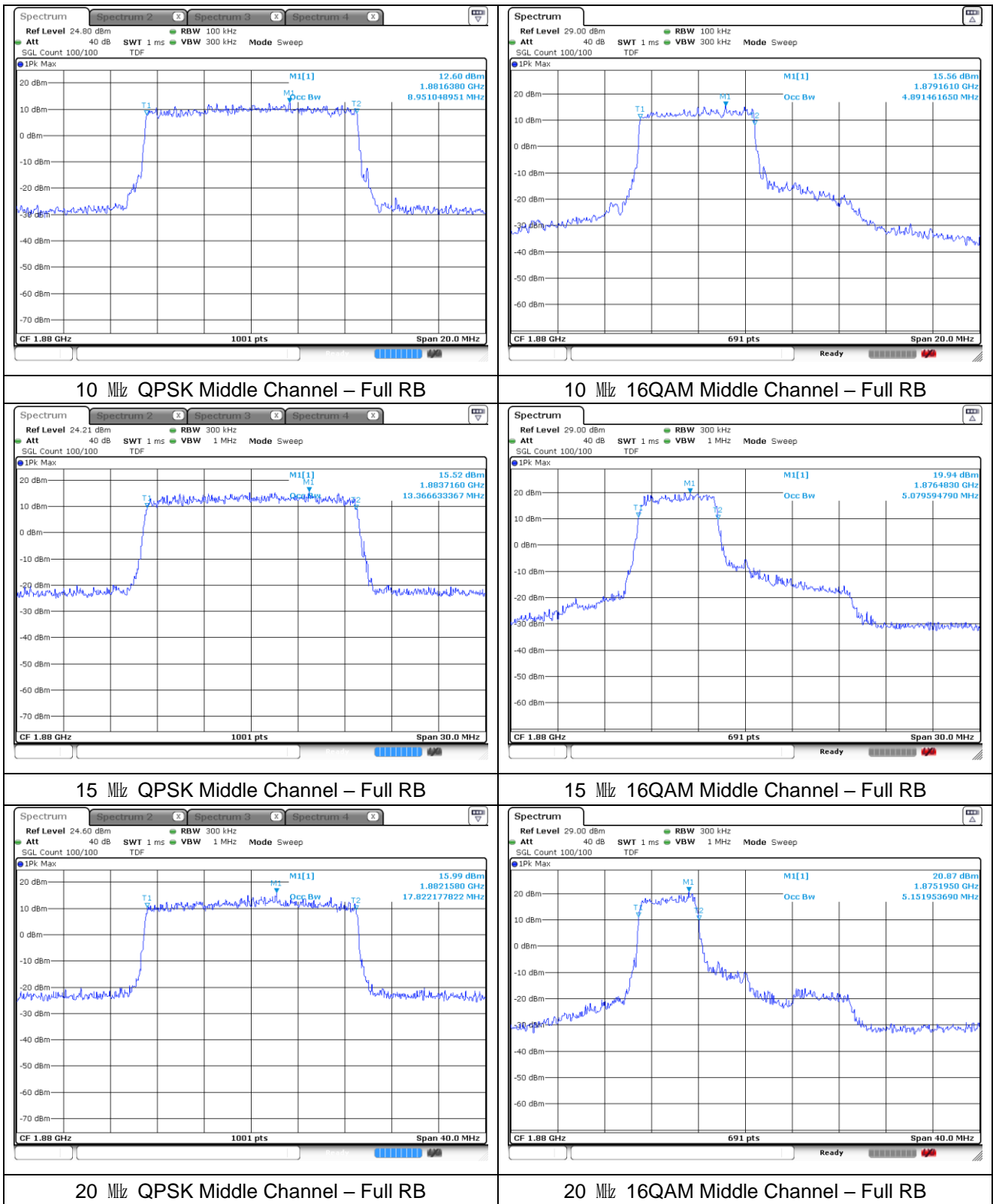


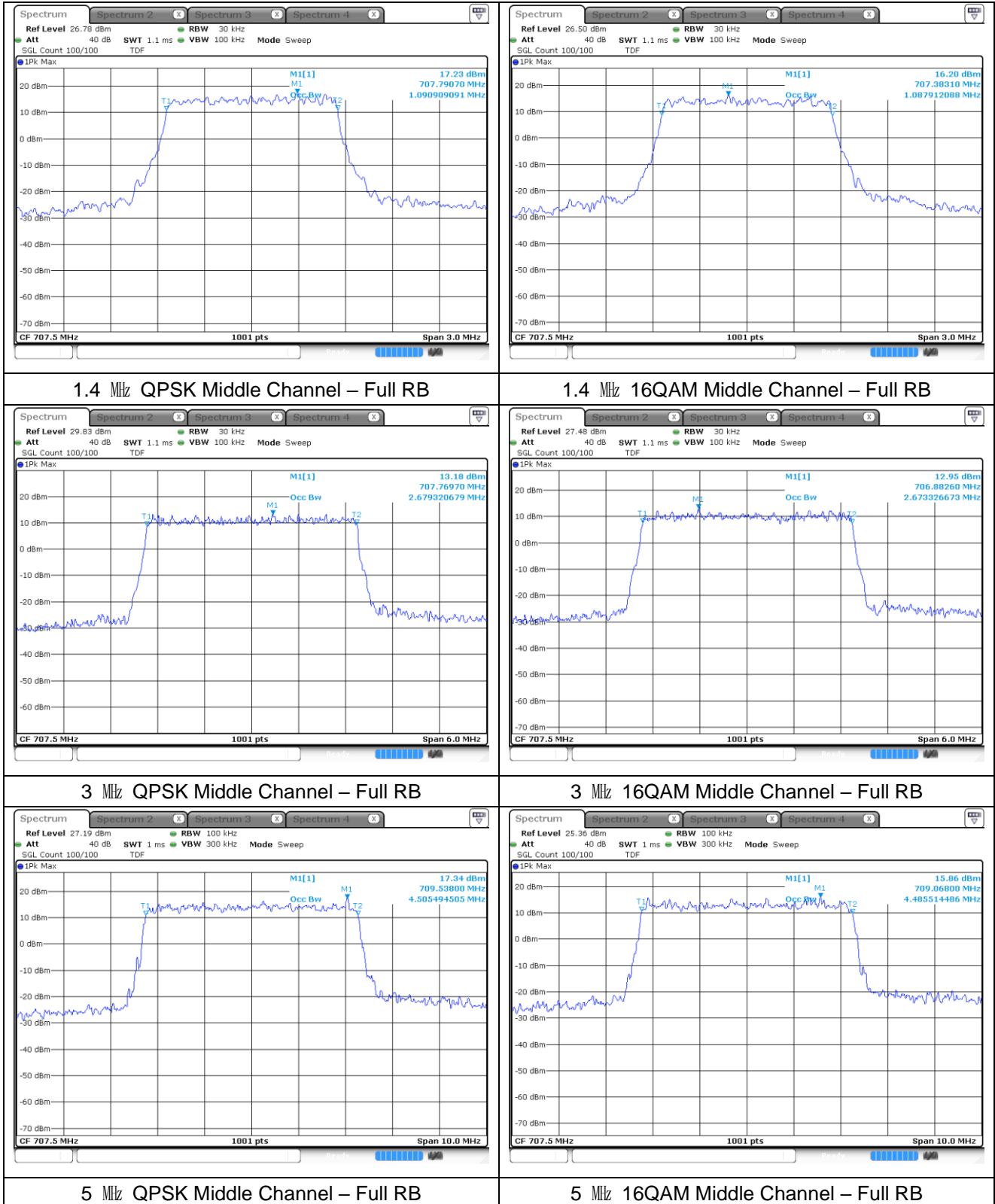
- Test plots

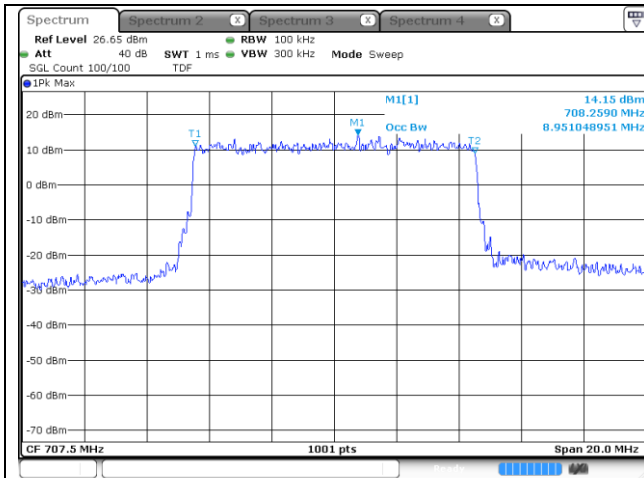
LTE band 2



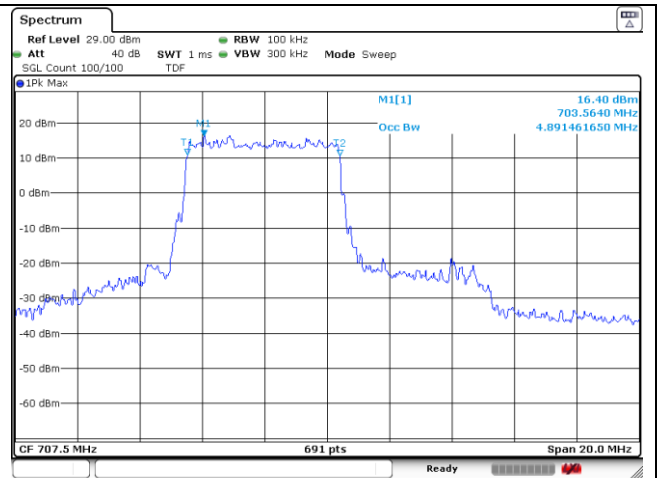


LTE band 12



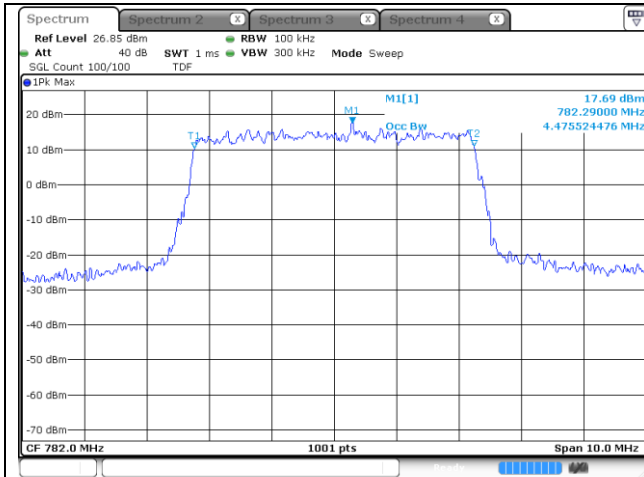


10 MHz QPSK Middle Channel – Full RB

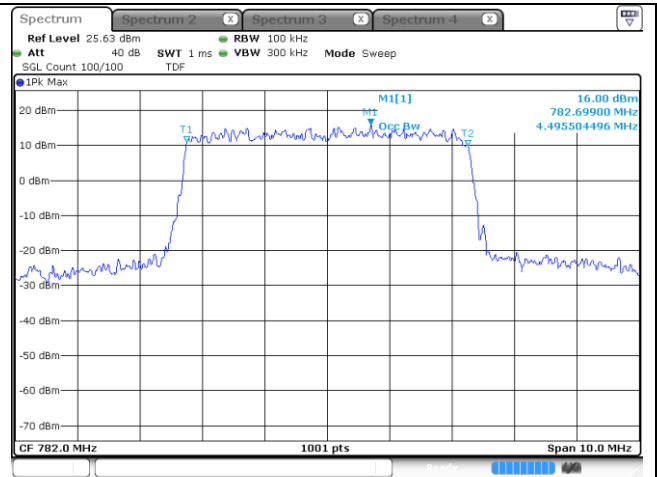


10 MHz 16QAM Middle Channel – Full RB

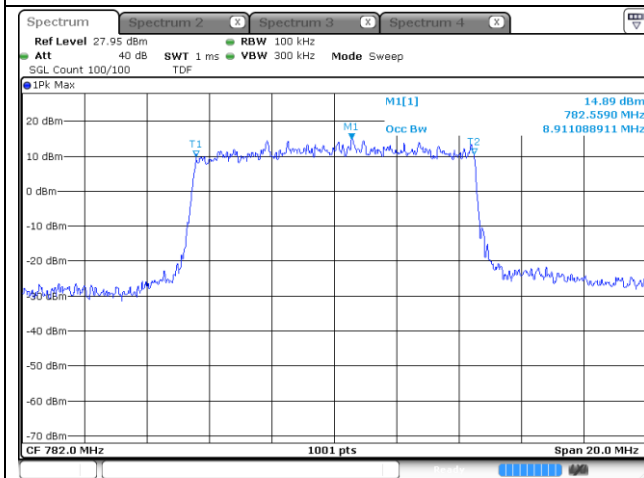
LTE band 13



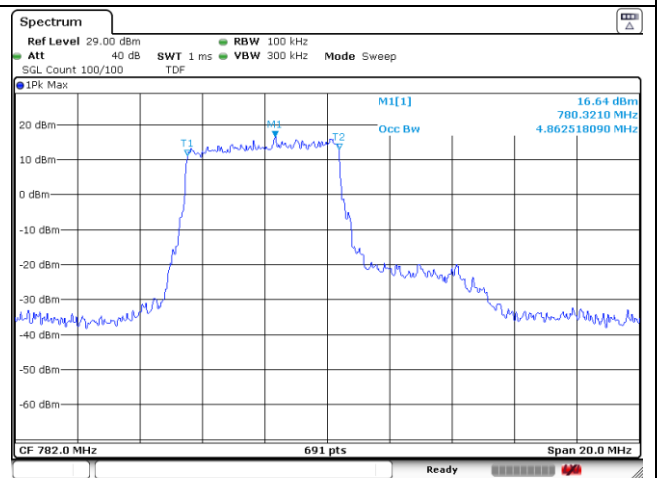
5 MHz QPSK Middle Channel – Full RB



5 MHz 16QAM Middle Channel – Full RB

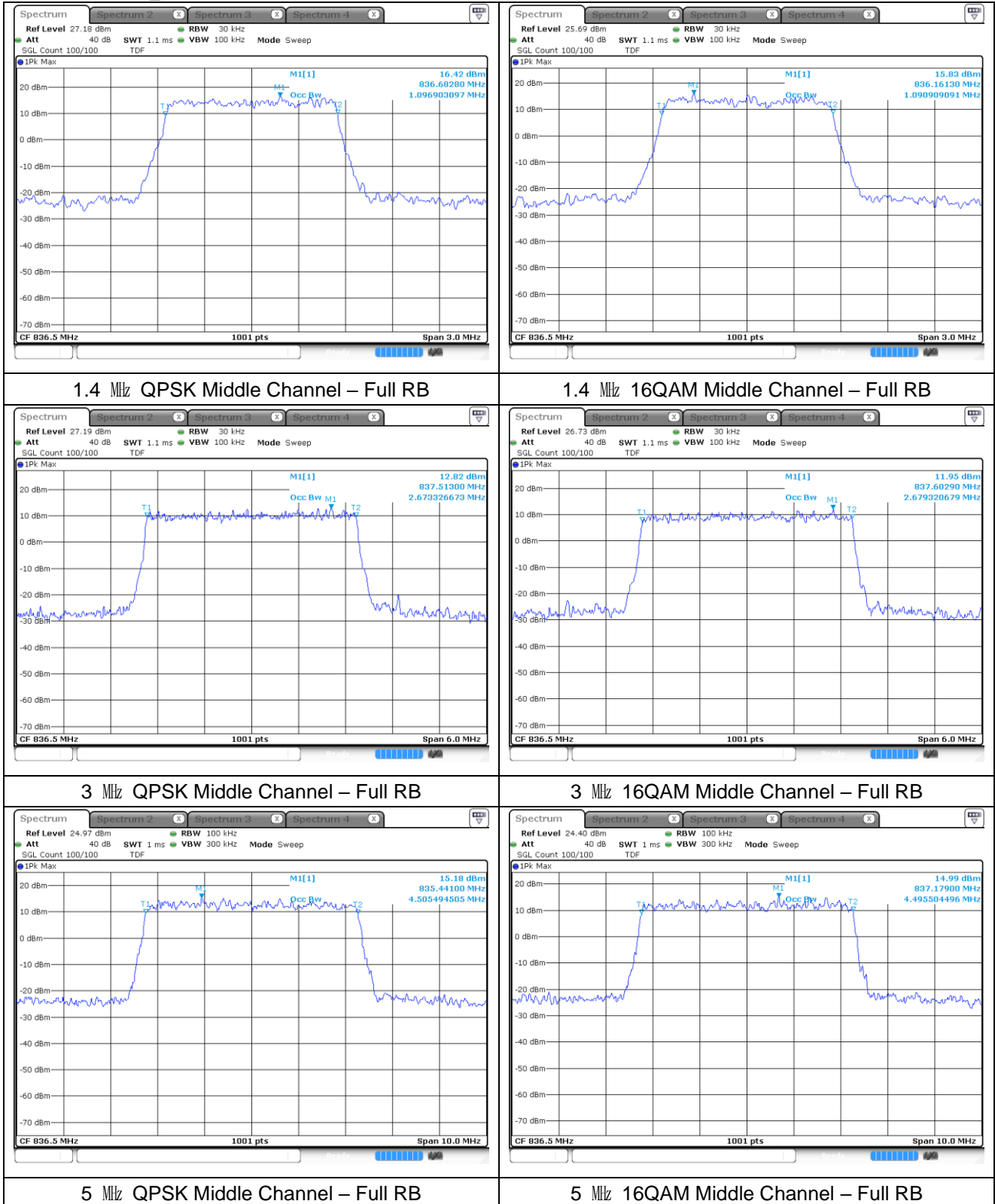


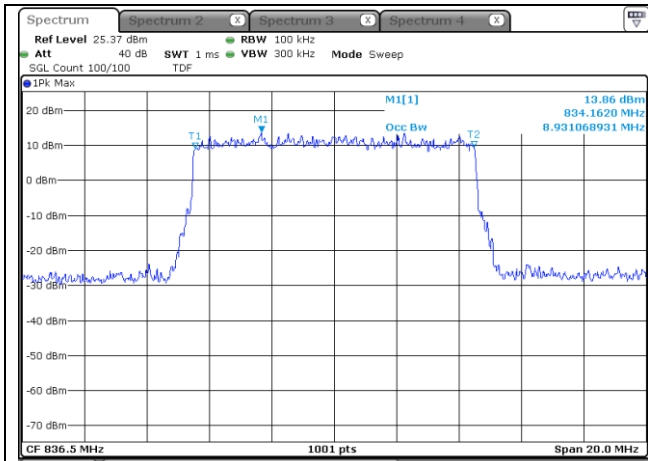
10 MHz QPSK Middle Channel – Full RB



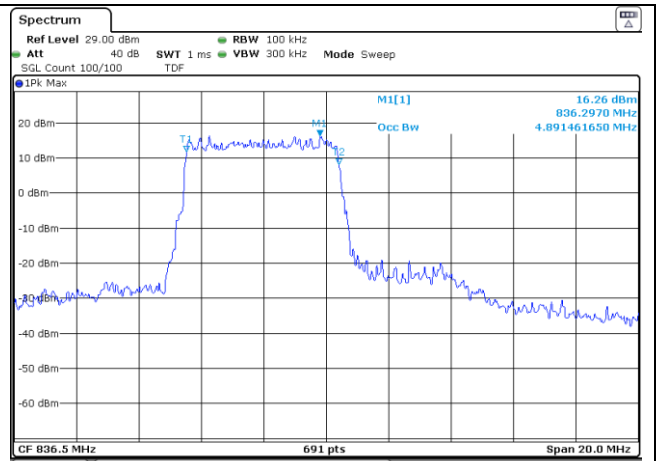
10 MHz 16QAM Middle Channel – Full RB

LTE band 26/5_Part 22



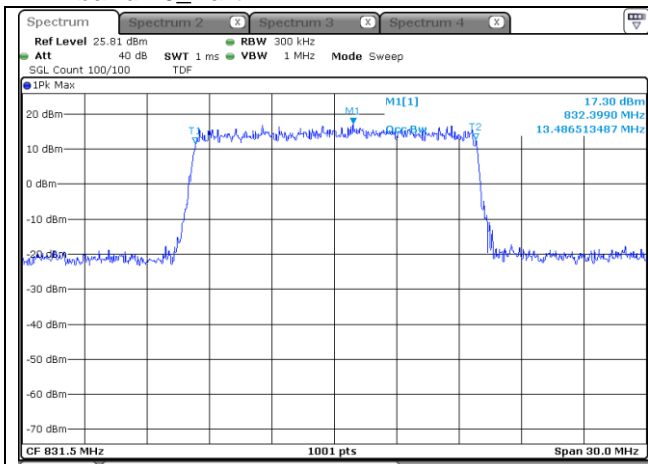


10 MHz QPSK Middle Channel – Full RB

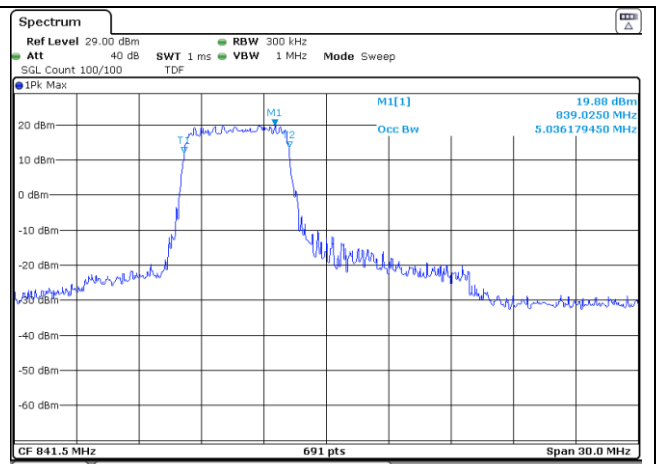


10 MHz 16QAM Middle Channel – Full RB

LTE band 26_Part 22

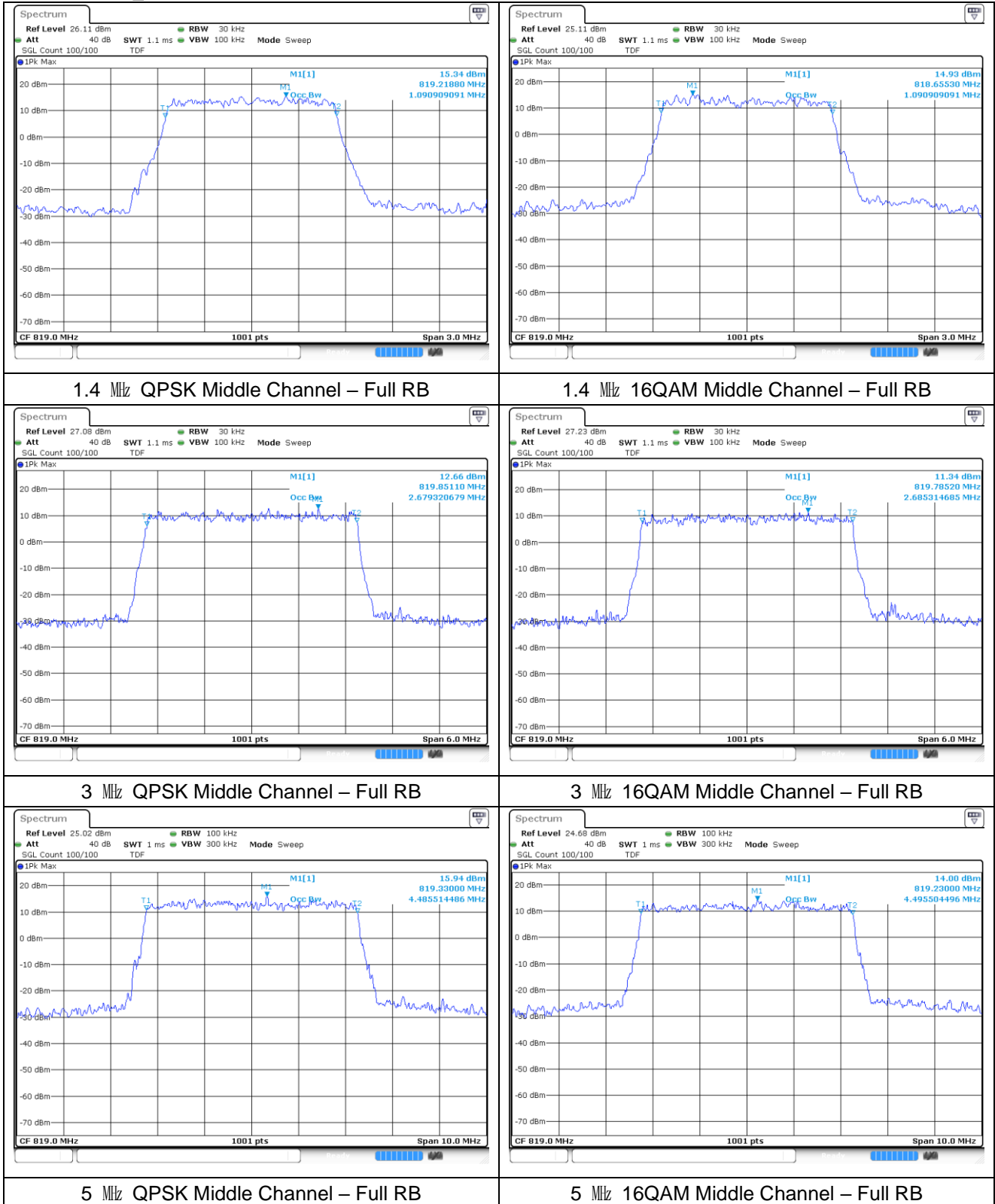


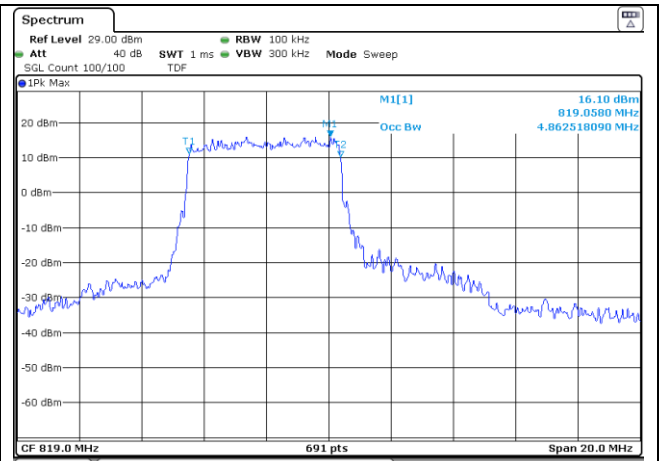
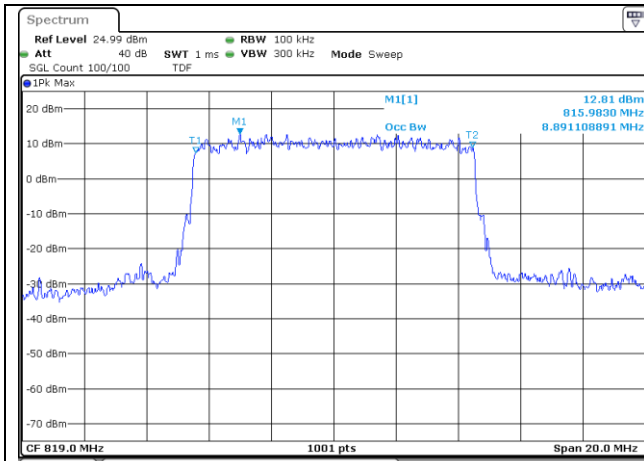
15 MHz QPSK Low Channel – Full RB



15 MHz 16QAM Low Channel – Full RB

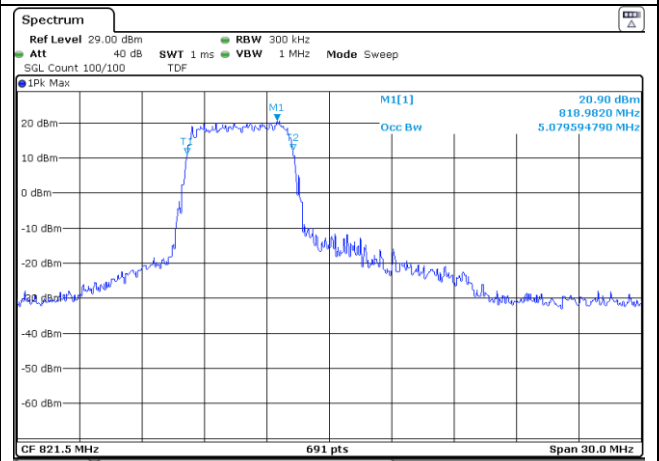
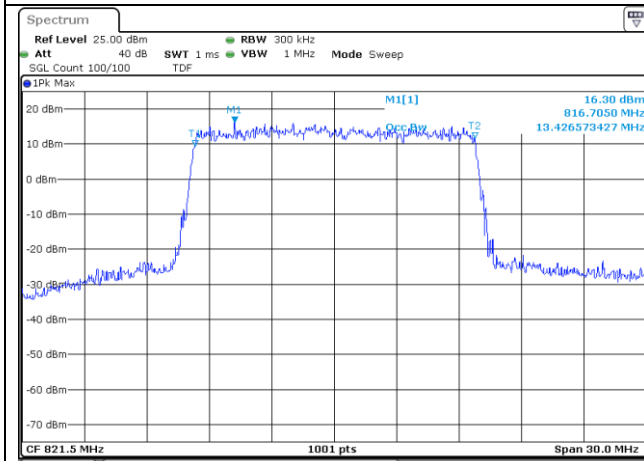
LTE band 26 Part 90





10 MHz QPSK Middle Channel – Full RB

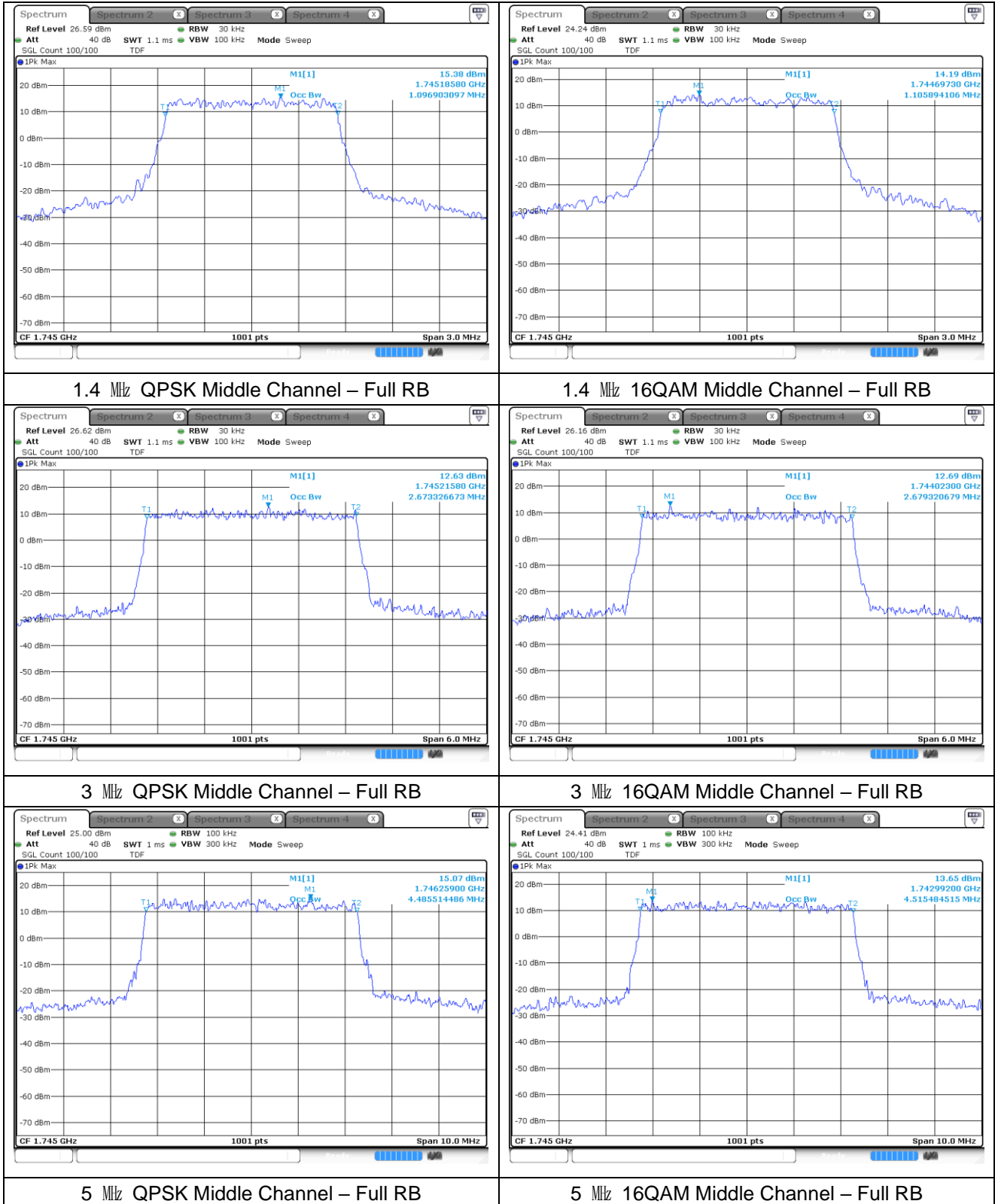
10 MHz 16QAM Middle Channel – Full RB

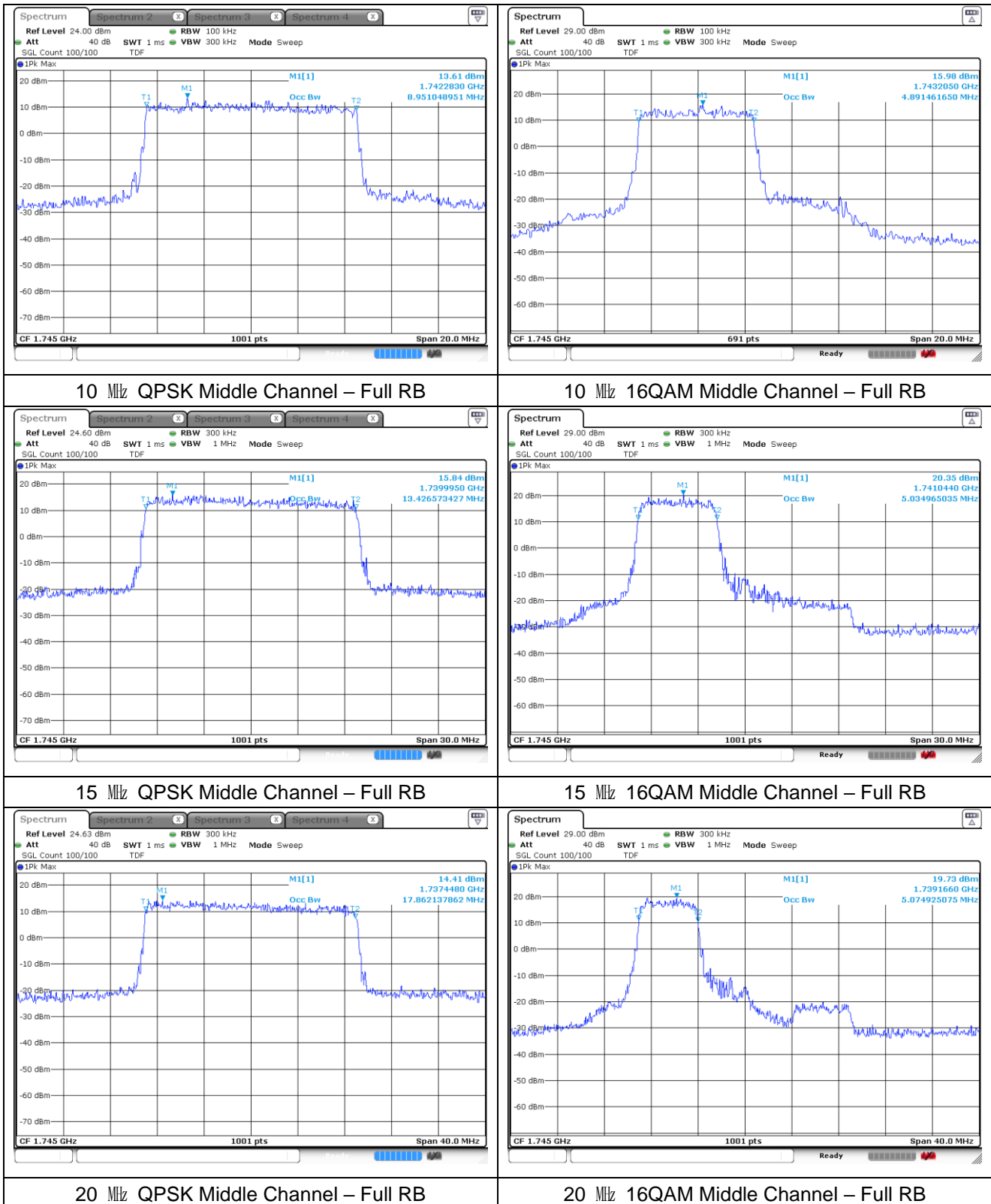


15 MHz QPSK Low Channel – Full RB

15 MHz 16QAM Low Channel – Full RB

LTE band 66/4





5. Peak-Average Ratio

5.1. Limit

- §22.913(d) Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

- §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph € of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

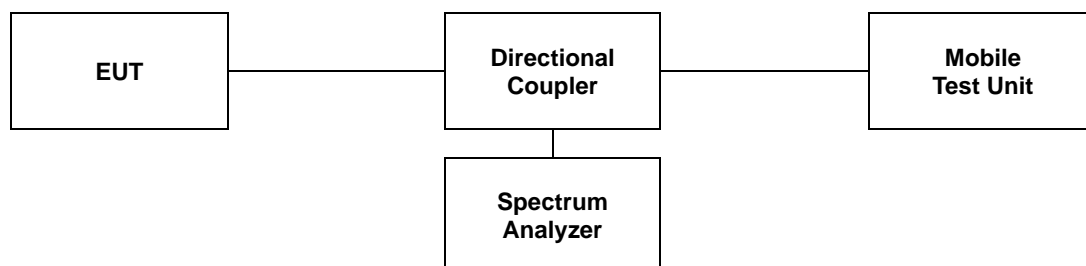
- §27.50(d)(5), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.2. Test Procedure

The test follows section 5.2.3.4 of ANSI C63.26-2015.

See instrumentation-specific application literature for further guidance regarding use of the CCDF capability. The following guidelines are offered for performing a CCDF measurement.

- a. Set resolution/measurement bandwidth \geq OBW or specified reference bandwidth.
- b. Set the number of counts to a value that stabilizes the measured CCDF curve.
- c. Set the measurement interval as follows:
 - 1) For continuous transmissions, set to greater of [10 x (number of points in sweep) x (transmission symbol period)] or 1 ms.
 - 2) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
 - 3) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- d. Record the maximum PAPR level associated with a probability of 0.1 %.
- e. The peak power level is calculated from the sum of the PAPR value from step d) to the measured average power.



5.3 Test Results

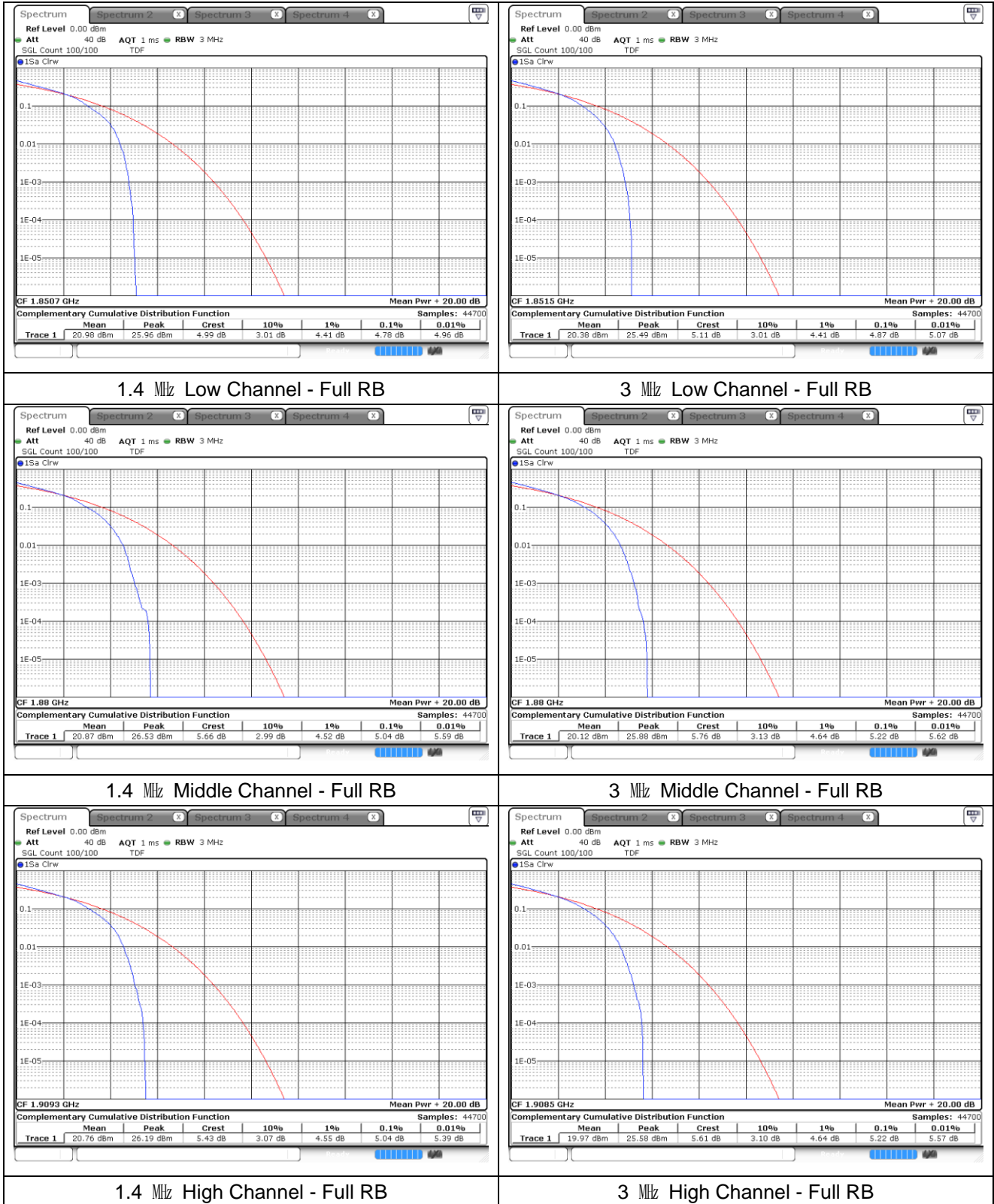
Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

Band	Bandwidth (MHz)	Mode	Frequency (MHz)	PAR (dB)
2	1.4	16QAM	1 850.7	4.78
			1 880.0	5.04
			1 909.3	5.04
	3		1 851.5	4.87
			1 880.0	5.22
			1 908.5	5.22
	5		1 852.5	4.78
			1 880.0	5.19
			1 907.5	5.30
	10		1 855.0	4.49
			1 880.0	4.90
			1 905.0	5.07
	15		1 857.5	4.38
			1 880.0	4.67
1 902.5		4.55		
20		1 860.0	4.41	
	1 880.0	4.78		
	1 900.0	4.41		
12	1.4	699.7	6.03	
		707.5	6.23	
		715.3	5.94	
	3	700.5	5.91	
		707.5	6.03	
		714.5	5.74	
	5	701.5	6.00	
		707.5	6.06	
		713.5	5.65	
	10	704.0	5.94	
		707.5	6.06	
13	5	711.0	5.77	
		779.5	6.06	
		782.0	5.94	
		784.5	5.83	
	10	782.0	6.12	

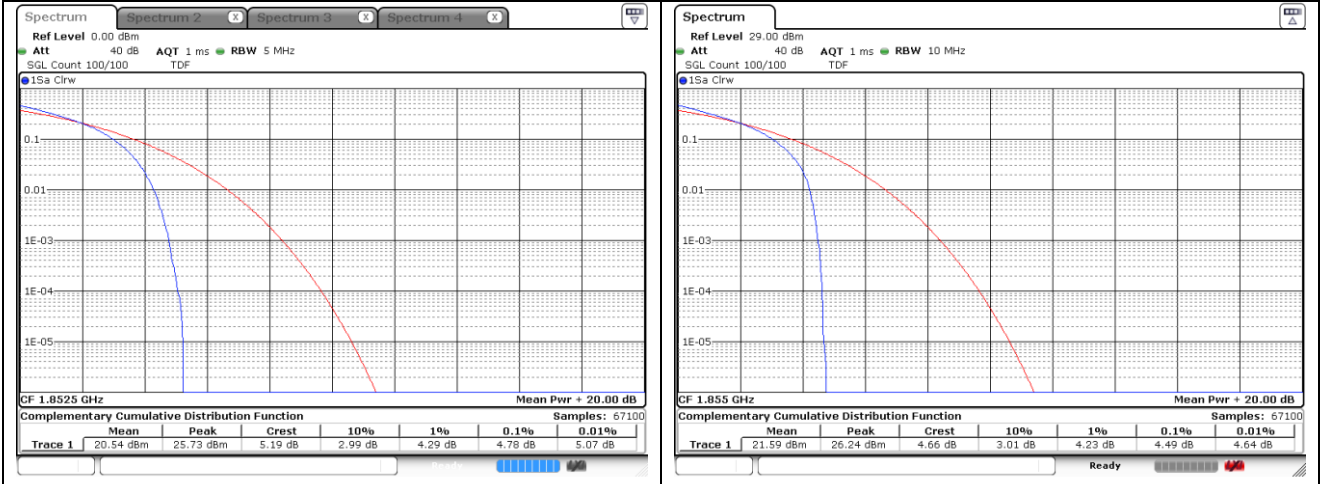
Band	Bandwidth (MHz)	Modulation	Frequency (MHz)	PAR (dB)
26/5 Part 22	1.4	16QAM	824.7	6.41
			836.5	6.81
			848.3	6.41
	3		825.5	6.06
			836.5	6.41
			847.5	6.35
	5		826.5	6.14
			836.5	6.38
			846.5	6.55
	10		829.0	6.00
			836.5	6.06
			844.0	6.12
26 Part 22	15	831.5	6.00	
		841.5	6.00	
26 Part 90	1.4	16QAM	814.7	6.49
			819.0	6.17
			823.3	5.91
	3		815.5	6.17
			819.0	6.03
			822.5	6.09
	5		816.5	6.09
			819.0	5.97
			821.5	6.03
	10		819.0	5.80
			821.5	5.74
	66/4		1.4	16QAM
1 745.0		6.12		
1 779.3		5.83		
3		1 711.5	5.77	
		1 745.0	6.00	
		1 778.5	5.77	
5		1 712.5	5.80	
		1 745.0	5.83	
		1 777.5	5.57	
10		1 715.0	5.77	
		1 745.0	5.62	
		1 775.0	5.22	
15		1 717.5	5.65	
		1 745.0	5.54	
		1 772.5	5.54	
20		1 720.0	5.74	
		1 745.0	5.42	
		1 770.0	6.03	

- Test plots

LTE band 2

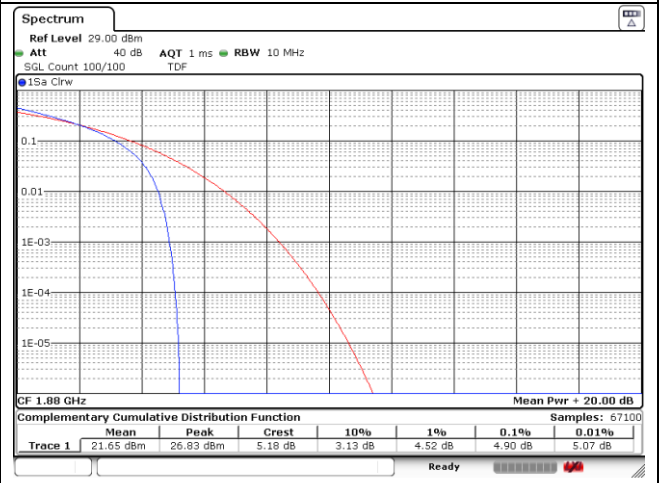
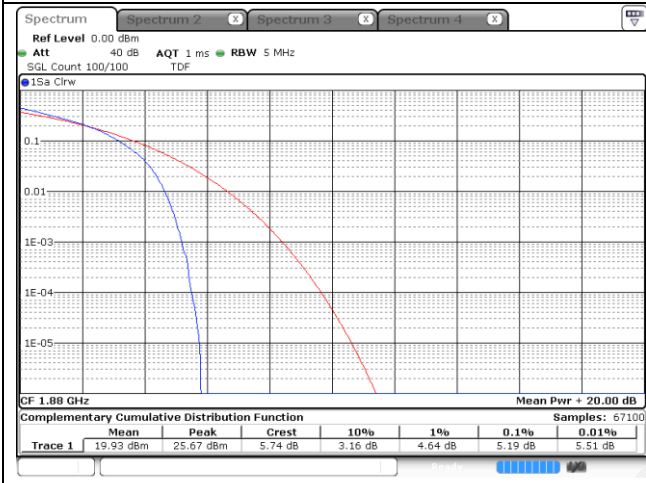


LTE band 2



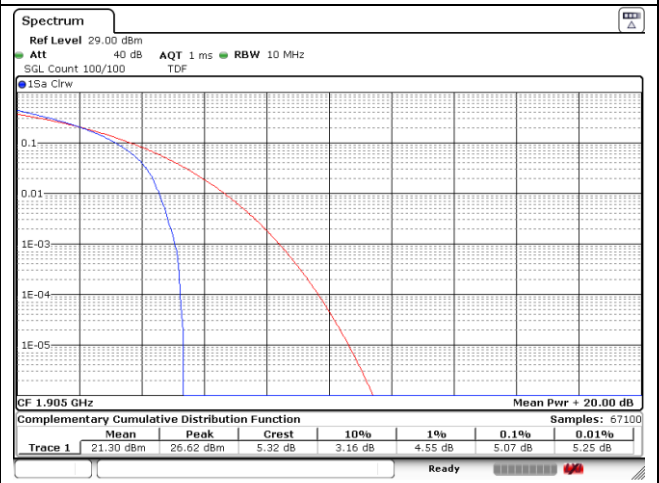
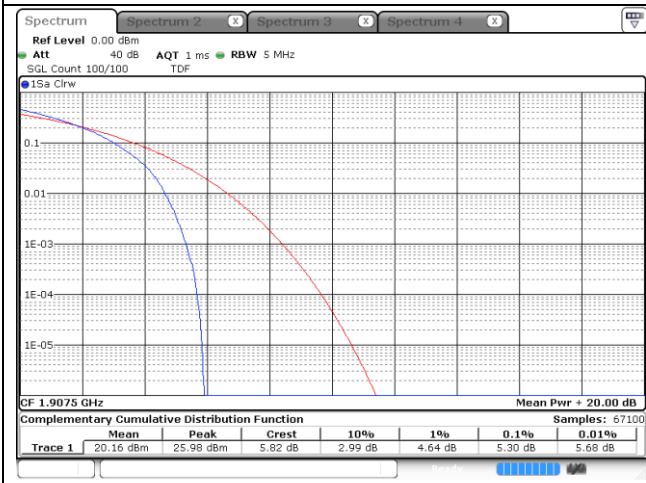
5 MHz Low Channel - Full RB

10 MHz Low Channel - Full RB



5 MHz Middle Channel - Full RB

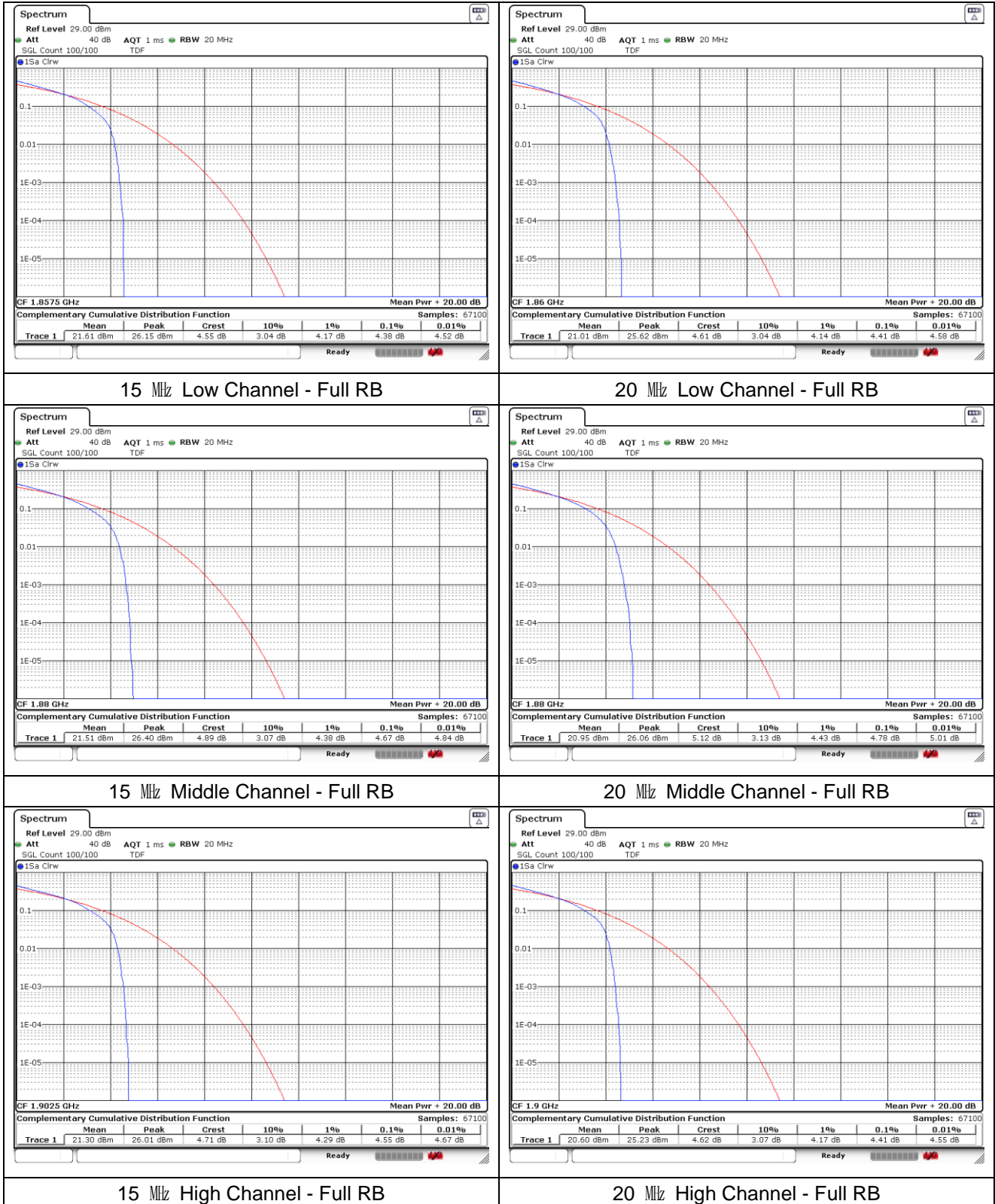
10 MHz Middle Channel - Full RB



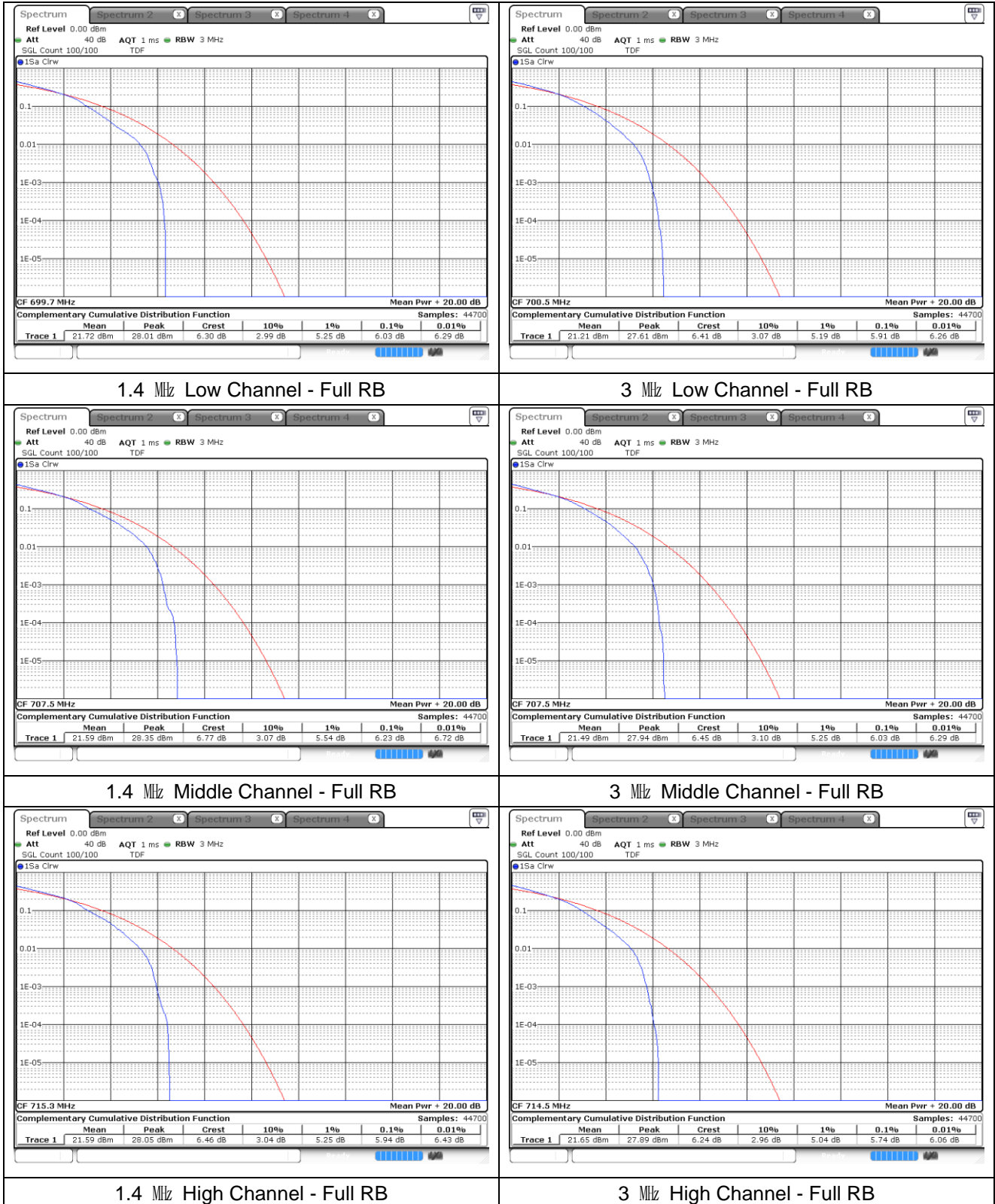
5 MHz High Channel - Full RB

10 MHz High Channel - Full RB

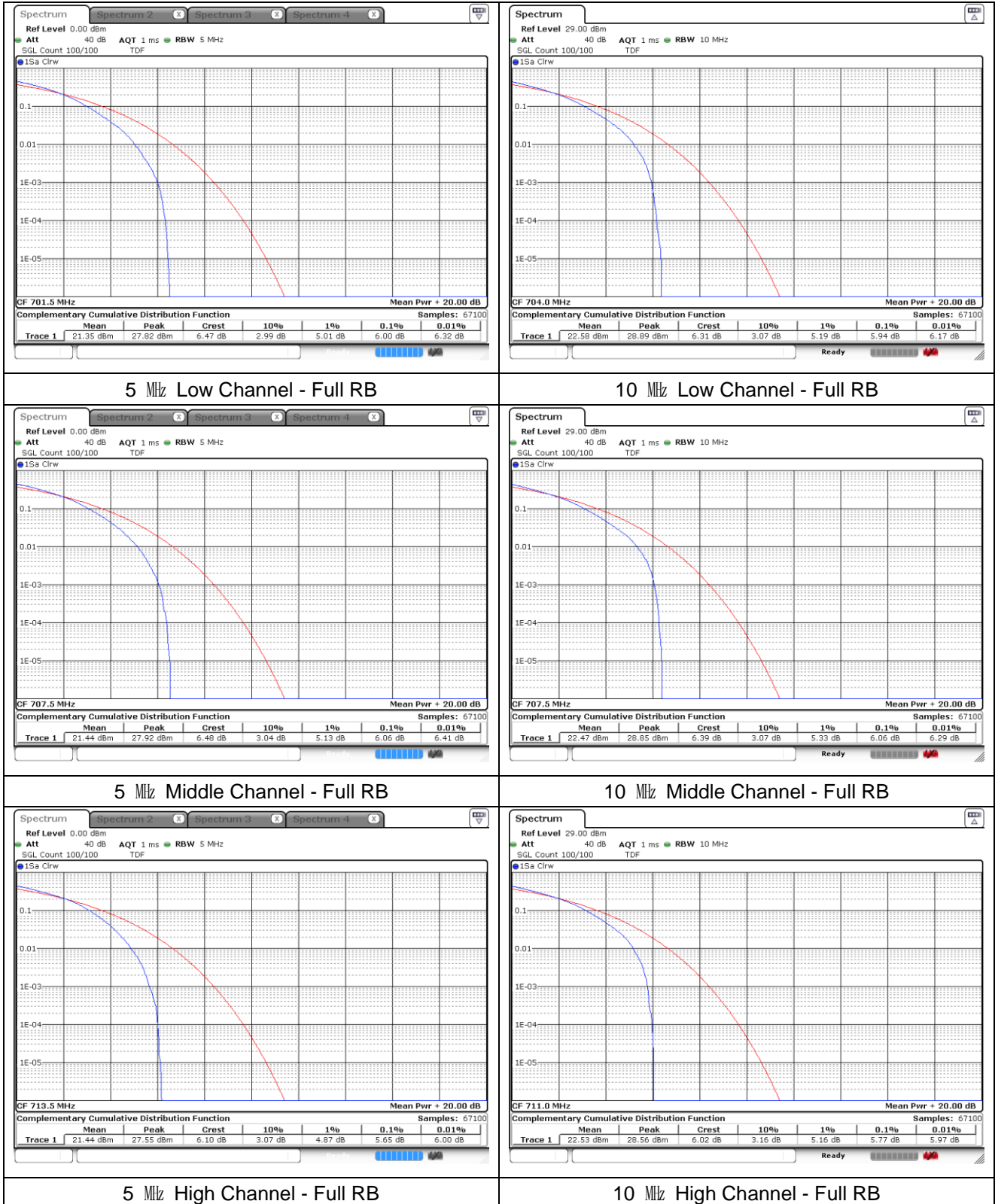
LTE band 2



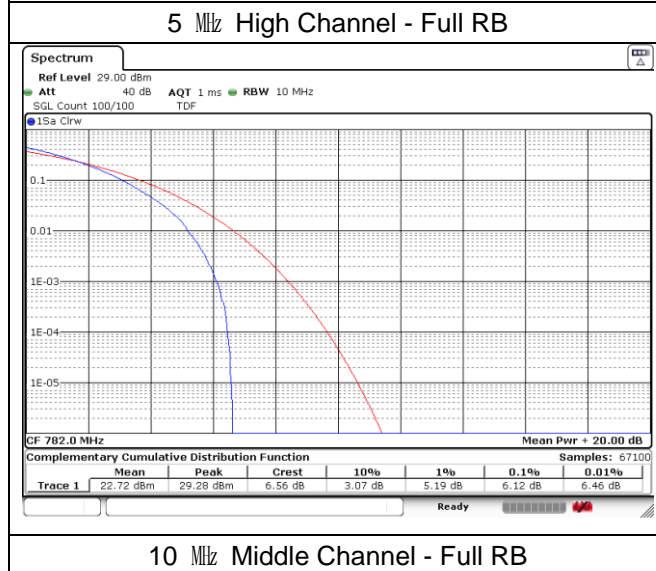
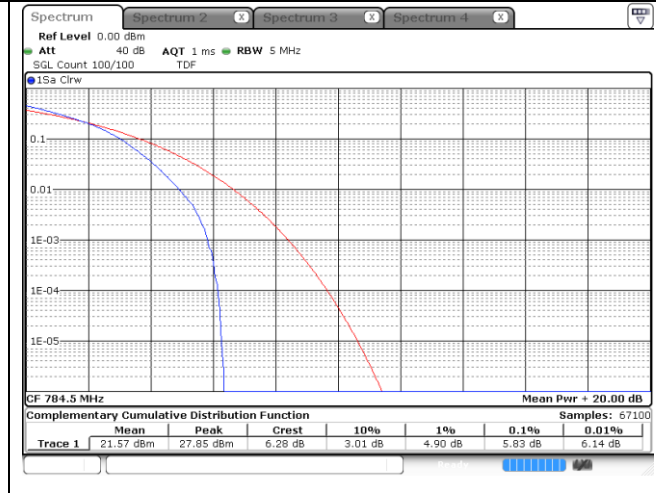
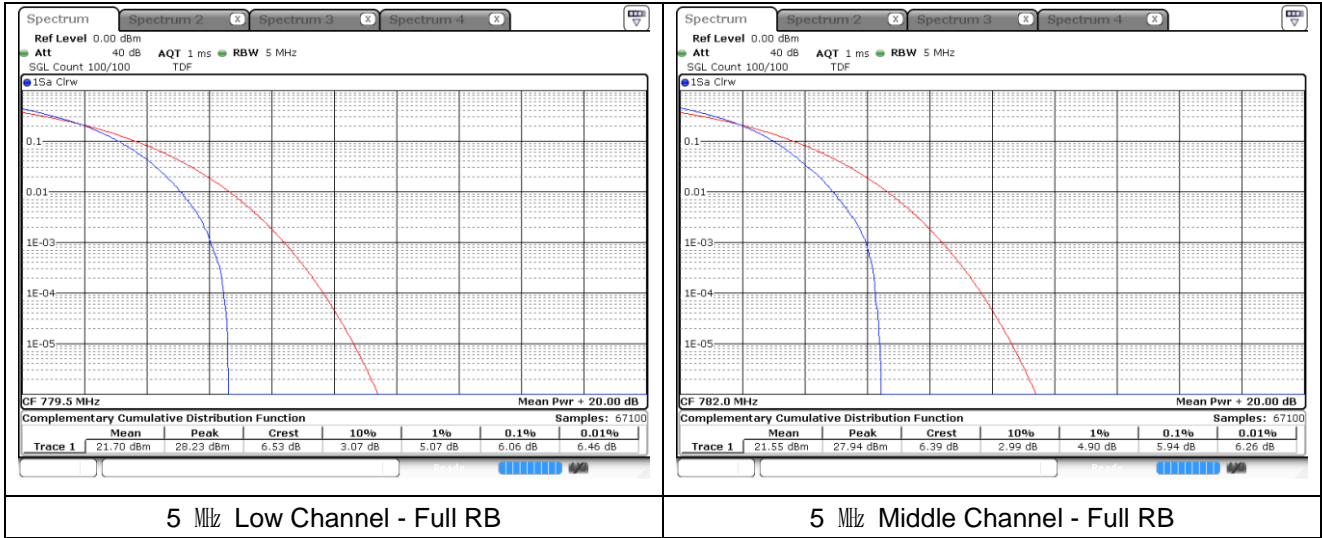
LTE band 12



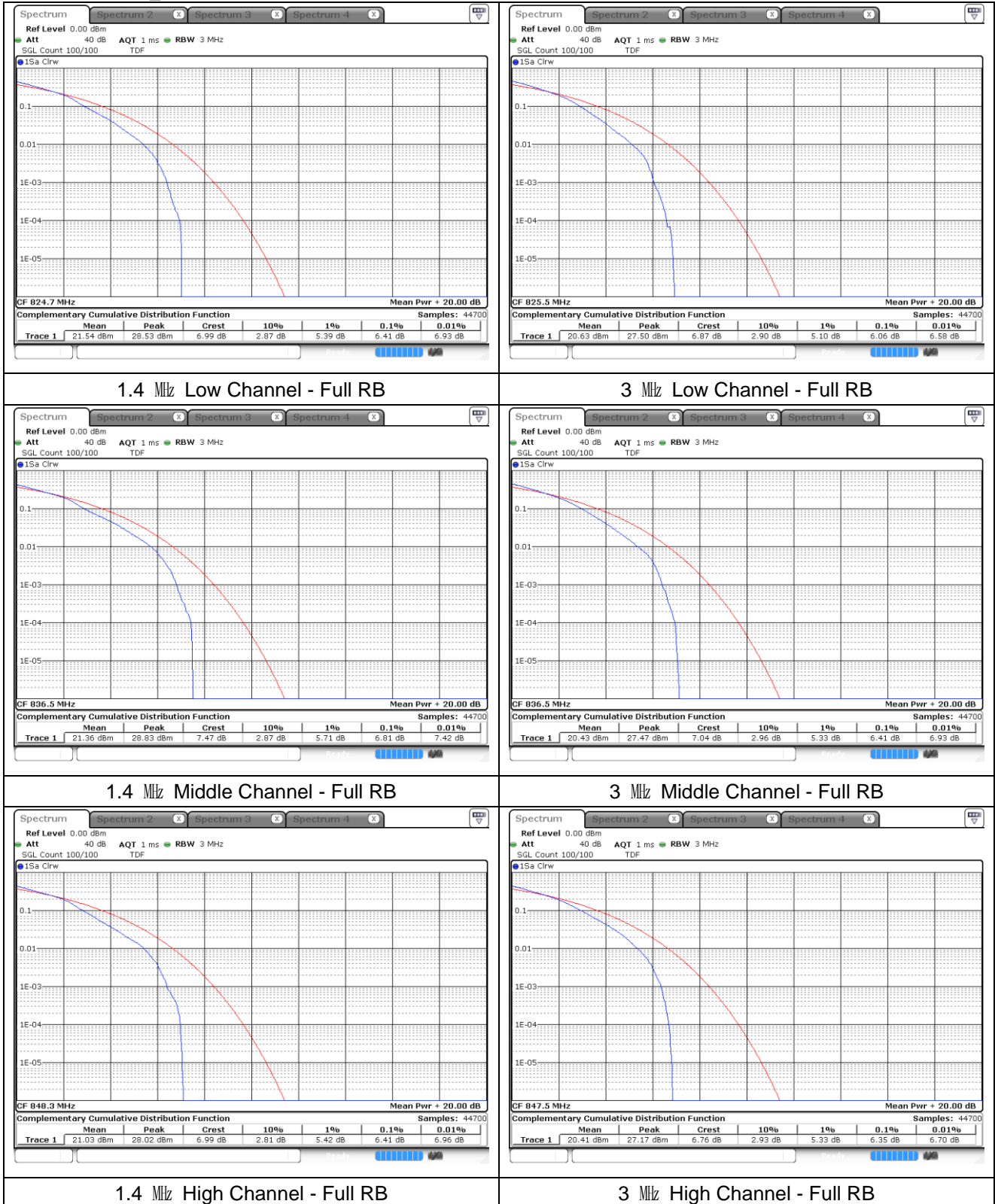
LTE band 12



LTE band 13



LTE band 26/5 Part 22



LTE band 26/5 Part 22

