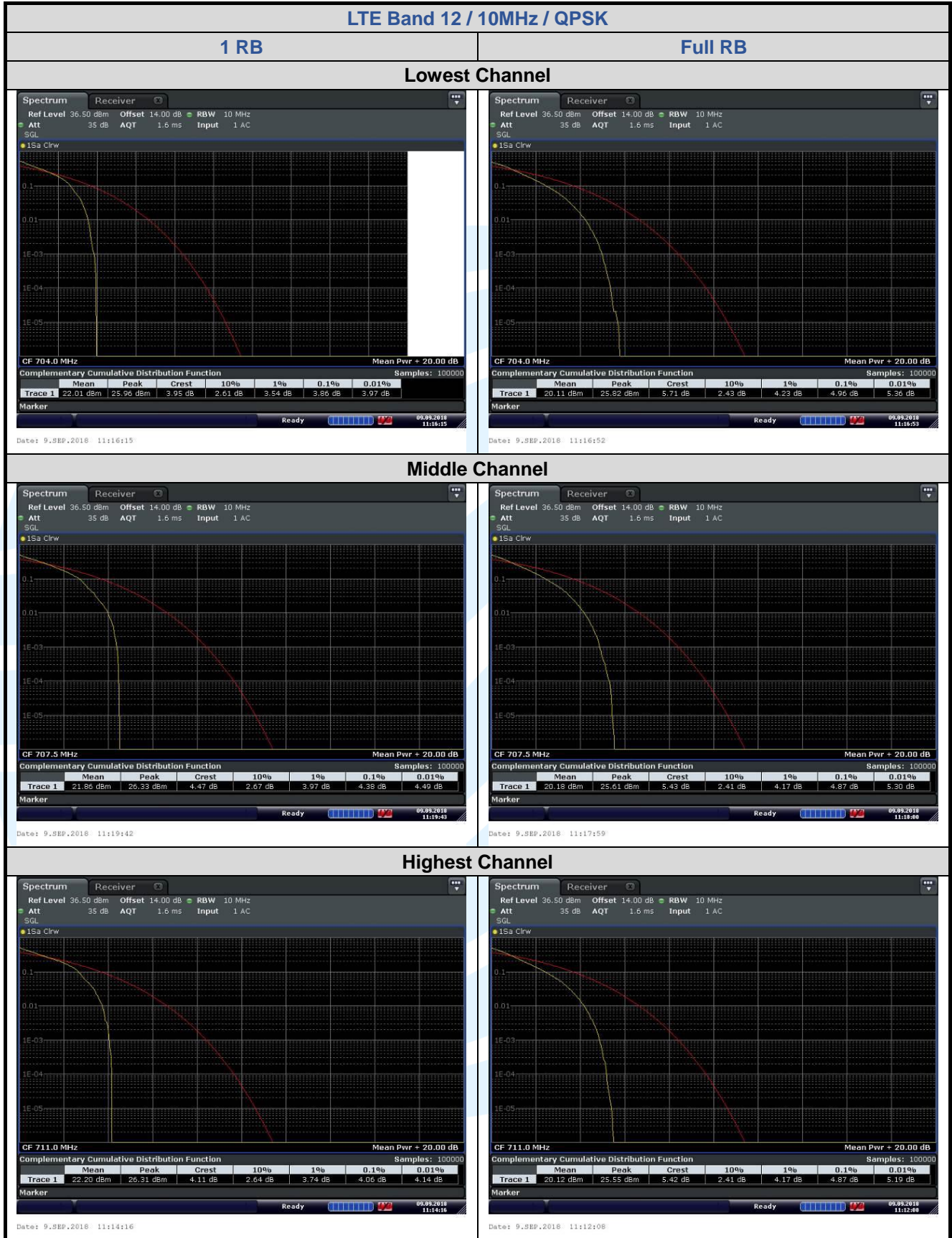
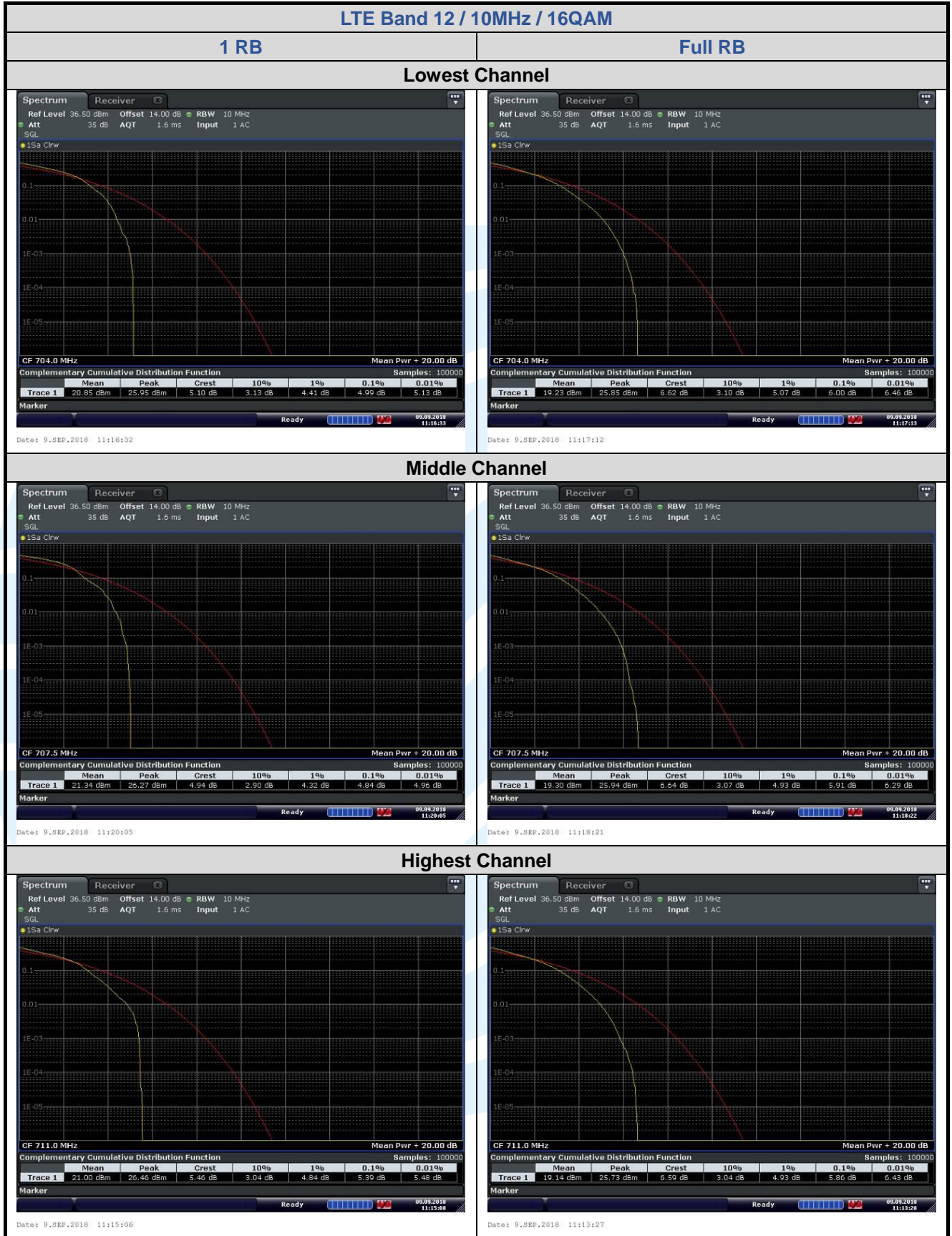


**LTE Band 12**

Peak-to-average ratio (dB)						
Channel	RB Configuration	Channel Bandwidth: 10 MHz			Limit (dB)	Result
		QPSK	16QAM	64QAM		
Lowest	1 RB	3.86	4.99	N/A	13	Pass
	Full RB	4.96	6.00	N/A	13	Pass
Middle	1 RB	4.38	4.84	N/A	13	Pass
	Full RB	4.87	5.91	N/A	13	Pass
Highest	1 RB	4.06	5.39	N/A	13	Pass
	Full RB	4.87	5.86	N/A	13	Pass

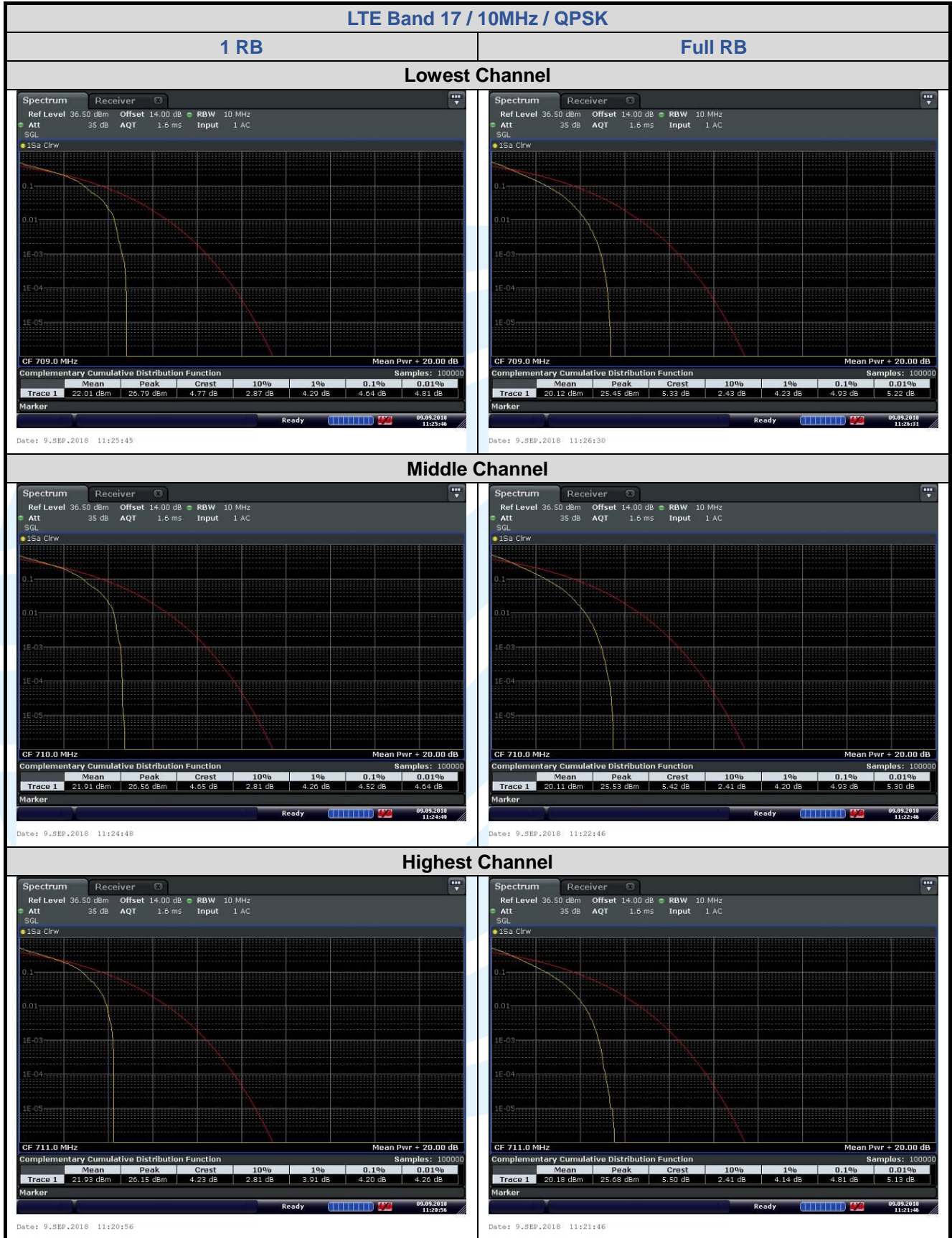


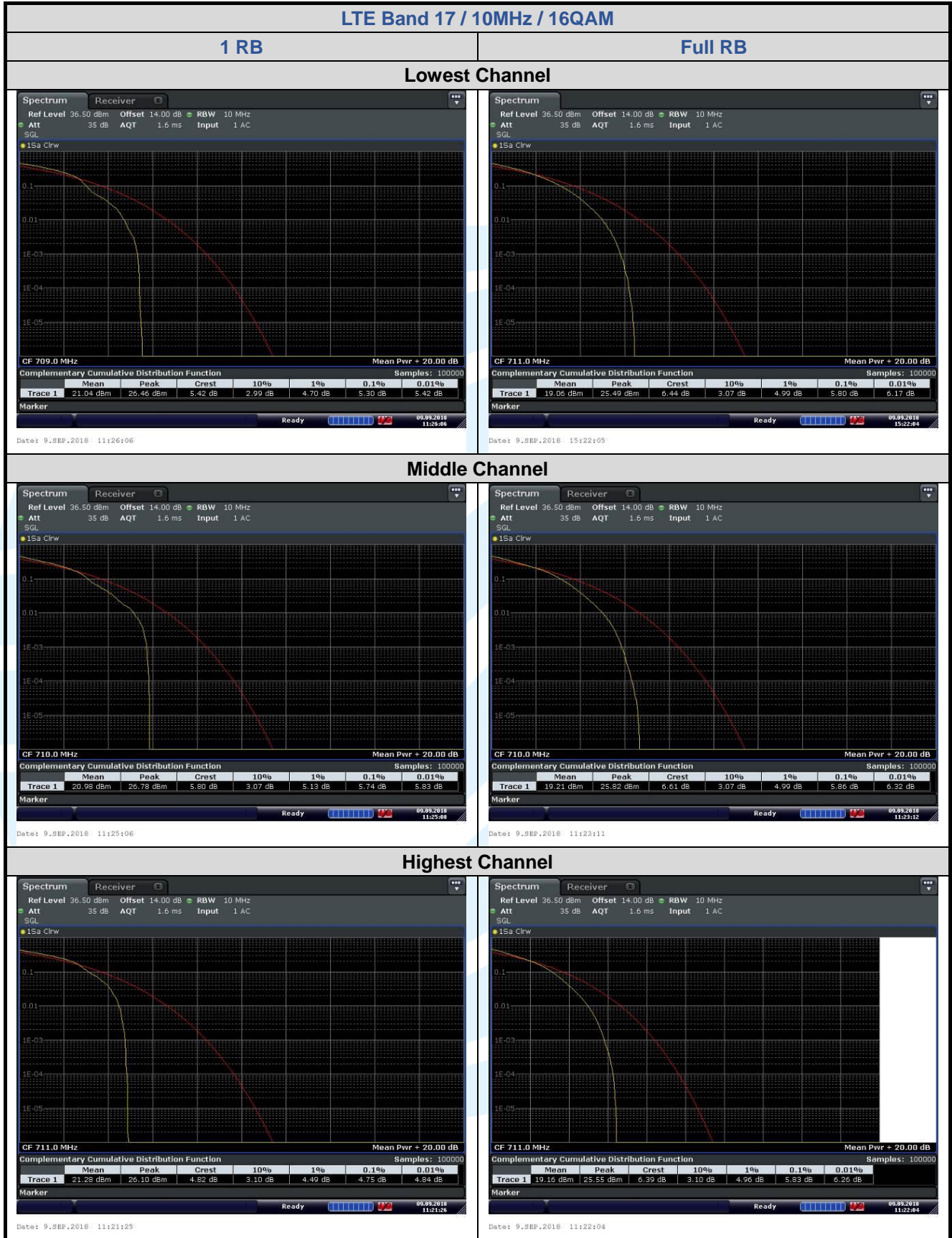




**LTE Band 17**

Peak-to-average ratio (dB)						
Channel	RB Configuration	Channel Bandwidth: 10 MHz			Limit (dB)	Result
		QPSK	16QAM	64QAM		
Lowest	1 RB	4.64	5.30	N/A	13	Pass
	Full RB	4.93	5.80	N/A	13	Pass
Middle	1 RB	4.52	5.74	N/A	13	Pass
	Full RB	4.93	5.86	N/A	13	Pass
Highest	1 RB	4.20	4.75	N/A	13	Pass
	Full RB	4.81	5.83	N/A	13	Pass







### 5.5 99%&26DB BANDWIDTH

**Test Requirement:** FCC 47 CFR Part 2.1049(h),  
 FCC 47 CFR Part 27.53(h),  
 FCC 47 CFR Part 27.53(g),  
 FCC 47 CFR Part 27.50(a)

**Test Method:** ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

**Limit:** No Limit

**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

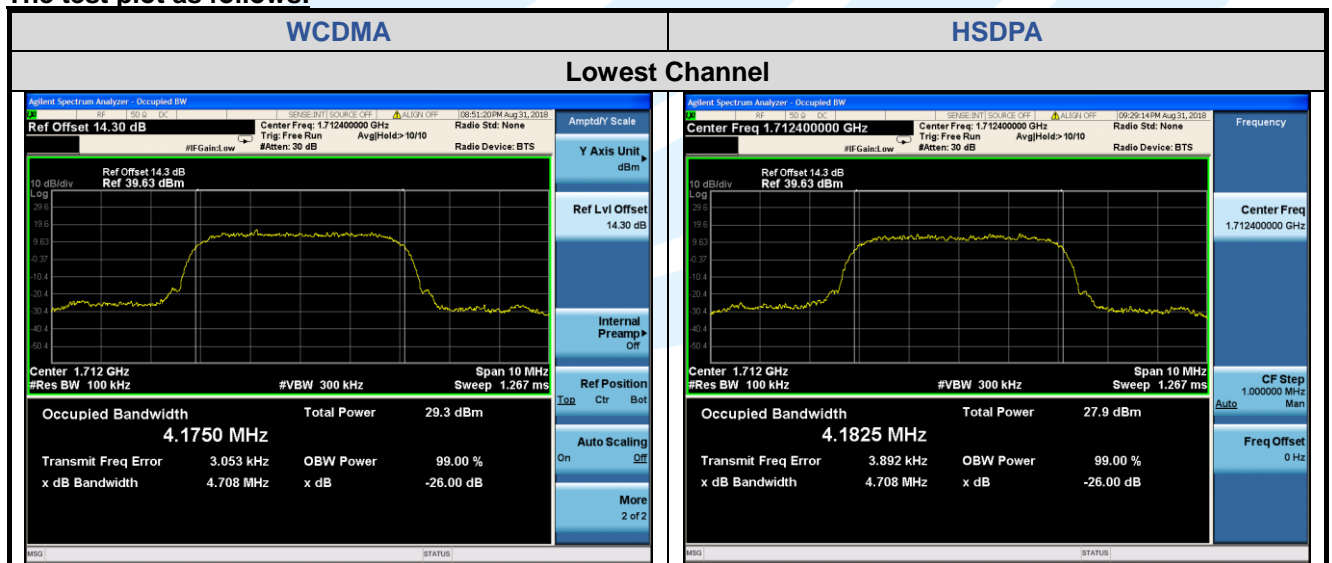
**Test Results:** Pass

**Test Data:** See table below

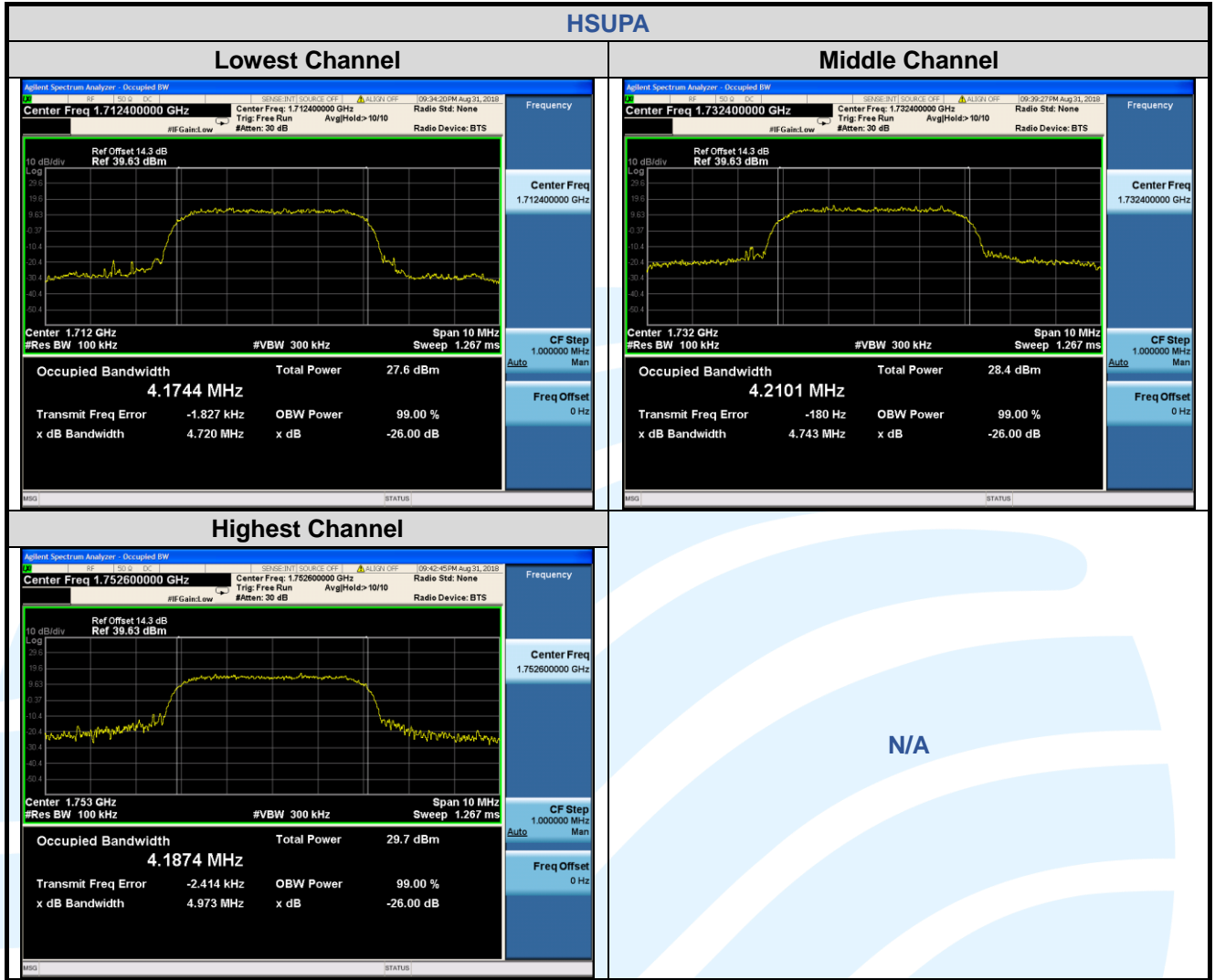
**WCDMA Band IV**

99% & 26 dB Bandwidth				
Test Mode	Channel	Frequency (MHz)	26 dB BW (MHz)	99% BW (MHz)
WCDMA RMC 12.2Kbps	1312	1712.4	4.708	4.1750
	1412	1732.4	4.820	4.2326
	1513	1752.6	4.706	4.1553
HSDPA	1312	1712.4	4.708	4.1825
	1412	1732.4	4.781	4.2067
	1513	1752.6	4.706	4.1682
HSUPA	1312	1712.4	4.720	4.1744
	1412	1732.4	4.743	4.2101
	1513	1752.6	4.973	4.1874

The test plot as follows:







**LTE Band 4**

LTE Band 4								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
<b>Channel Bandwidth: 1.4 MHz</b>								
Lowest	6	0	1.303	1.297	N/A	1.0991	1.0934	N/A
Middle	6	0	1.310	1.310	N/A	1.0948	1.1033	N/A
Highest	6	0	1.313	1.309	N/A	1.0975	1.0974	N/A
<b>Channel Bandwidth: 3 MHz</b>								
Lowest	15	0	2.917	2.915	N/A	2.6934	2.6852	N/A
Middle	15	0	2.912	2.948	N/A	2.6888	2.6926	N/A
Highest	15	0	2.913	2.927	N/A	2.6834	2.6881	N/A
<b>Channel Bandwidth: 5 MHz</b>								
Lowest	25	0	5.159	5.173	N/A	4.5348	4.5102	N/A
Middle	25	0	5.448	5.133	N/A	4.5329	4.5178	N/A
Highest	25	0	5.076	5.181	N/A	4.5147	4.5419	N/A
<b>Channel Bandwidth: 10 MHz</b>								
Lowest	50	0	10.10	10.12	N/A	8.9972	9.0129	N/A
Middle	50	0	10.19	9.933	N/A	9.0054	8.9947	N/A
Highest	50	0	10.07	9.936	N/A	9.0084	8.9861	N/A
<b>Channel Bandwidth: 15 MHz</b>								
Lowest	75	0	14.89	14.99	N/A	13.496	13.518	N/A
Middle	75	0	15.30	14.85	N/A	13.532	13.472	N/A
Highest	75	0	15.02	15.04	N/A	13.534	13.527	N/A
<b>Channel Bandwidth: 20 MHz</b>								
Lowest	100	0	20.74	19.97	N/A	18.012	18.084	N/A
Middle	100	0	19.95	19.84	N/A	18.071	18.066	N/A
Highest	100	0	19.95	19.51	N/A	18.058	18.033	N/A



