LTE Band 7 / 20MHz / QPSK	
1 RB	**Full RB**
Lowest Channel	
Middle Channel	
Highest Channel	

LTE Band 7 / 20MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
Middle Channel	
Highest Channel	

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 12 / 10MHz / QPSK	
1 RB	Full RB
Lowest Channel	
Middle Channel	
Highest Channel	

LTE Band 12 / 10MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
Middle Channel	
Highest Channel	

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

LTE Band 17 / 10MHz / QPSK	
1 RB	Full RB
Lowest Channel	
Middle Channel	
Highest Channel	

LTE Band 17 / 10MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
Middle Channel	
Highest Channel	

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

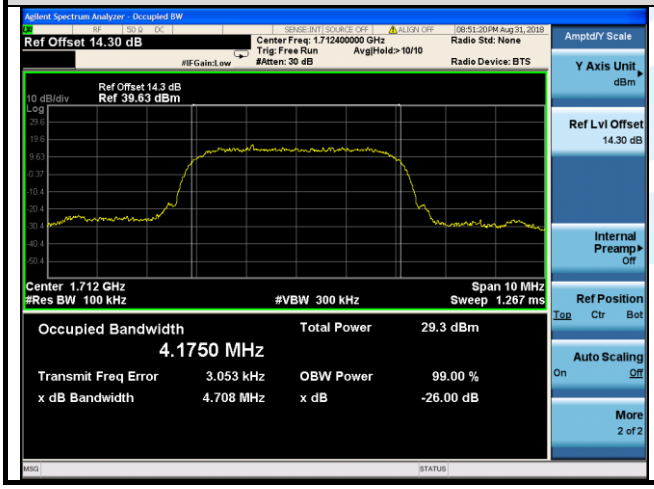
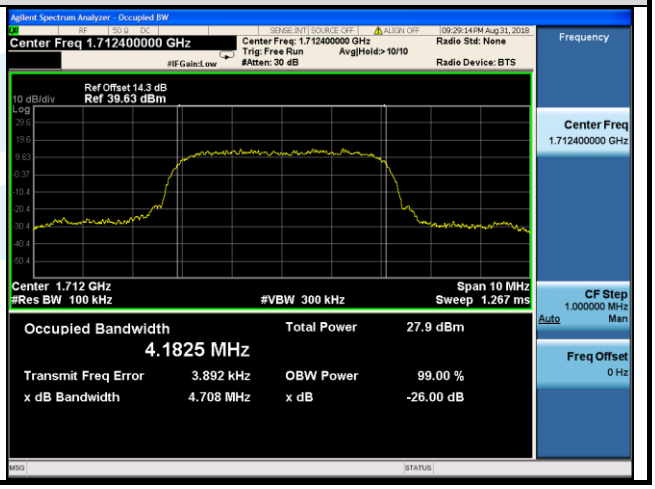
Test Results: Pass

Test Data: See table below

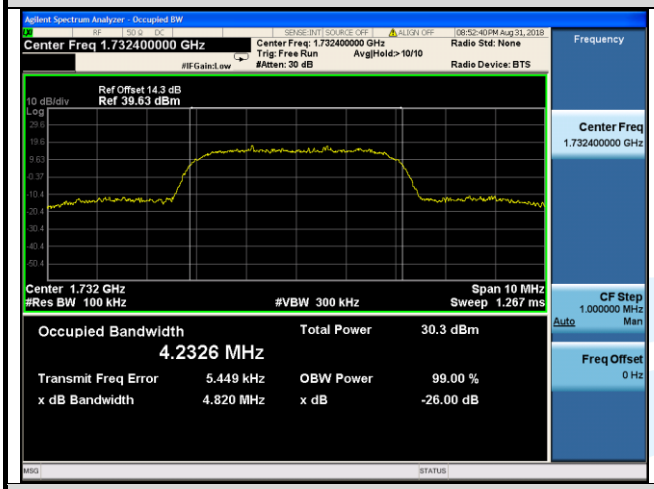
WCDMA Band IV

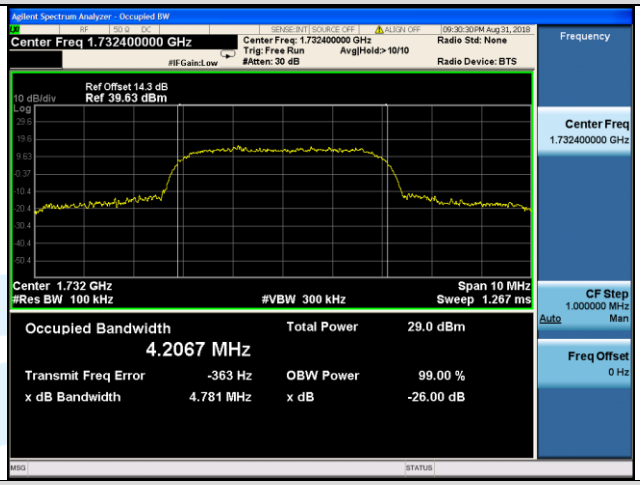
99% & 26 dB Bandwidth				
Test Mode	**Channel**	**Frequency (MHz)**	**26 dB BW (MHz)**	**99% BW (MHz)**
WCDMA RMC 12.2Kbps	1312	1712.4	4.708	4.1750
	1412	1732.4	4.820	4.2326
	1513	1752.6	4.706	4.1553
HSDPA	1312	1712.4	4.708	4.1825
	1412	1732.4	4.781	4.2067
	1513	1752.6	4.706	4.1682
HSUPA	1312	1712.4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

The test plot as follows:

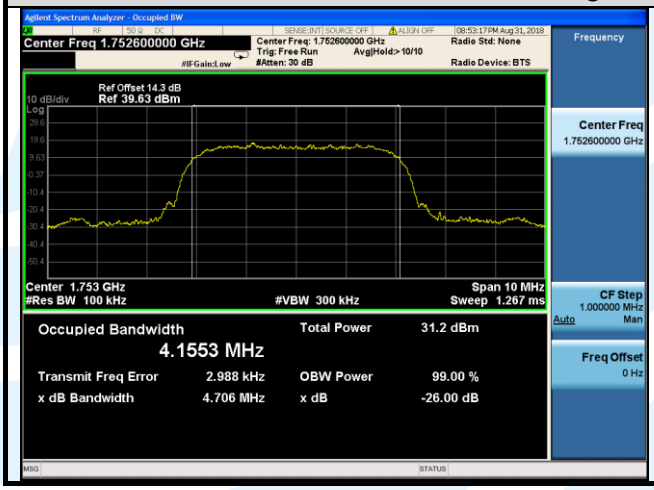
WCDMA	HSDPA
Lowest Channel	
	

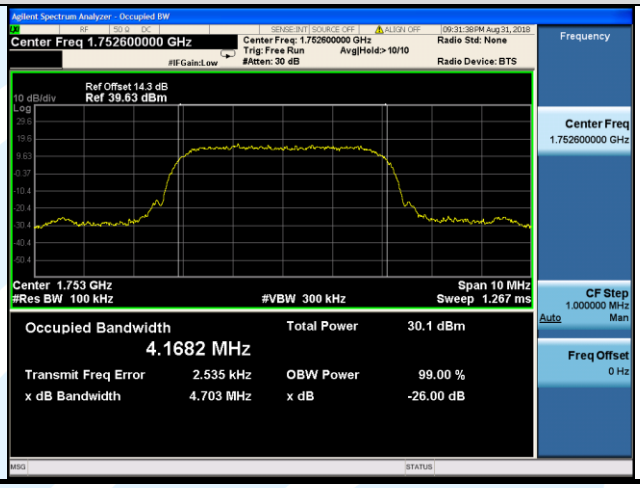
Middle Channel

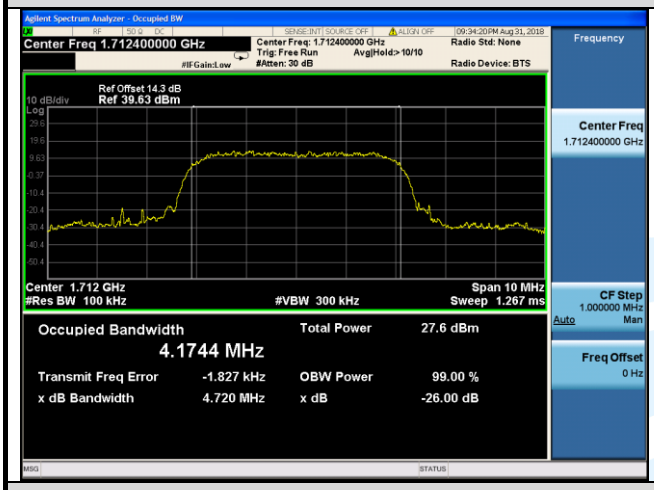
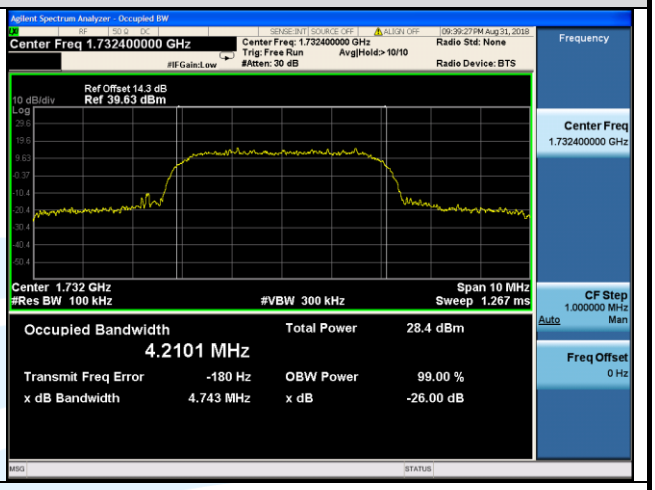
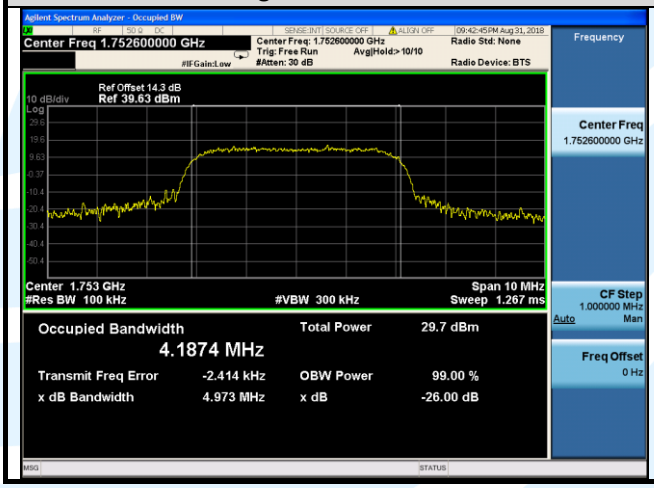




Highest Channel

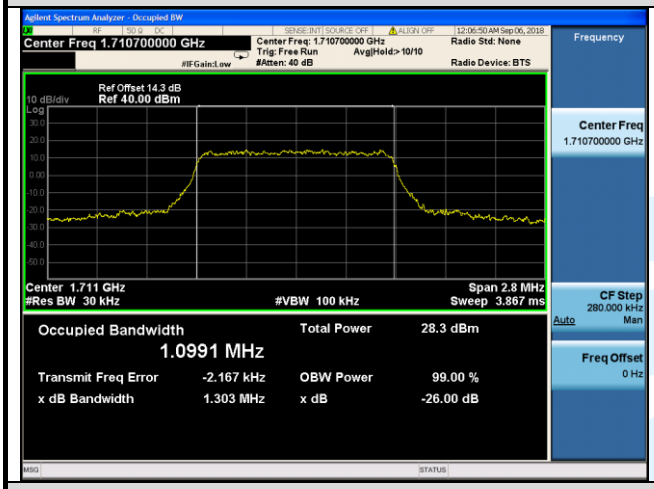
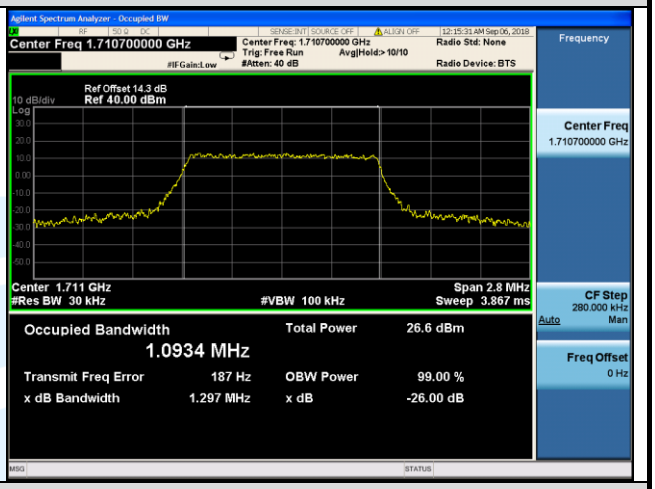
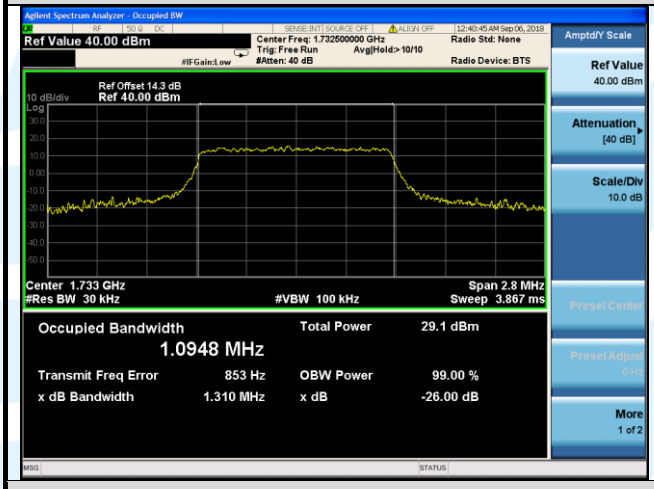
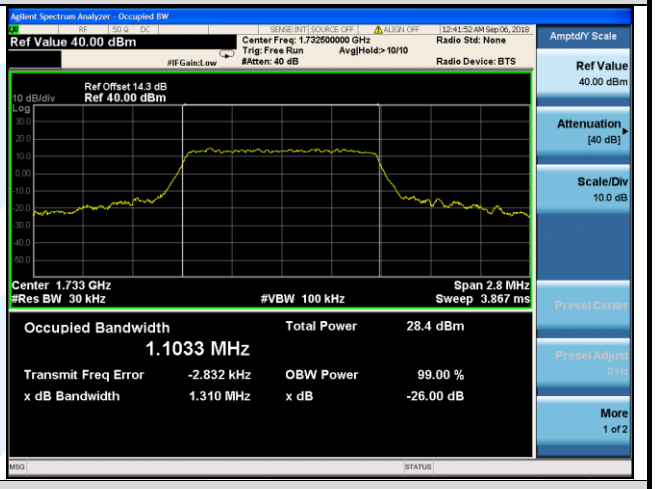
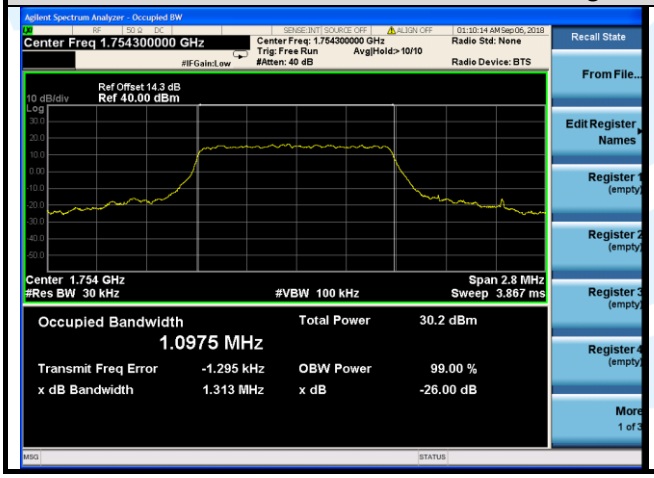
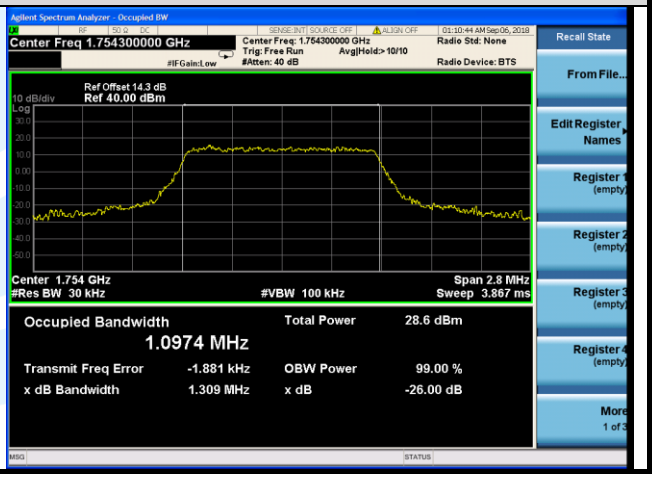


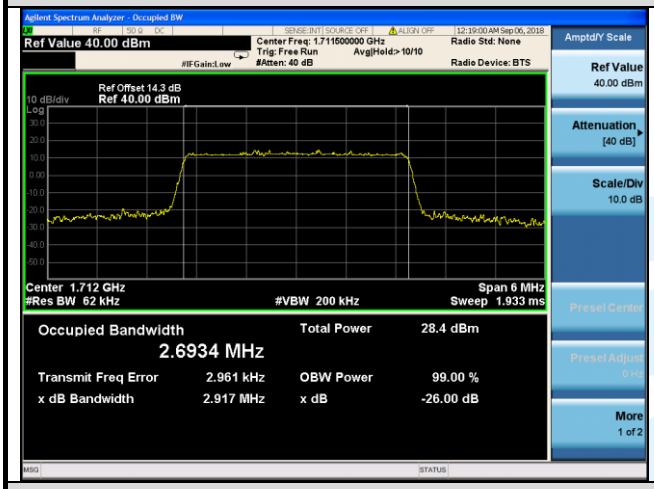
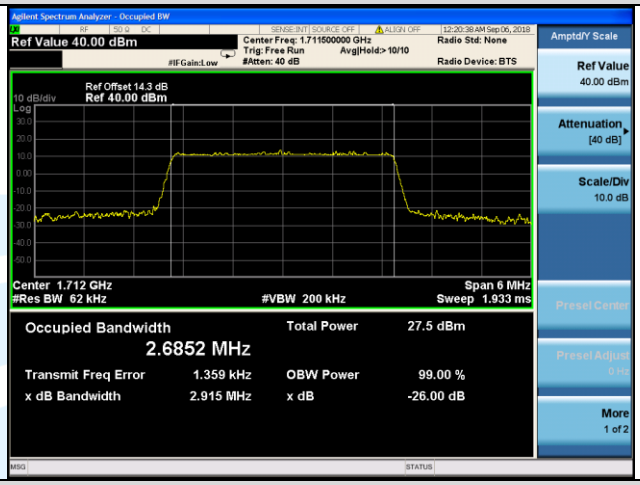
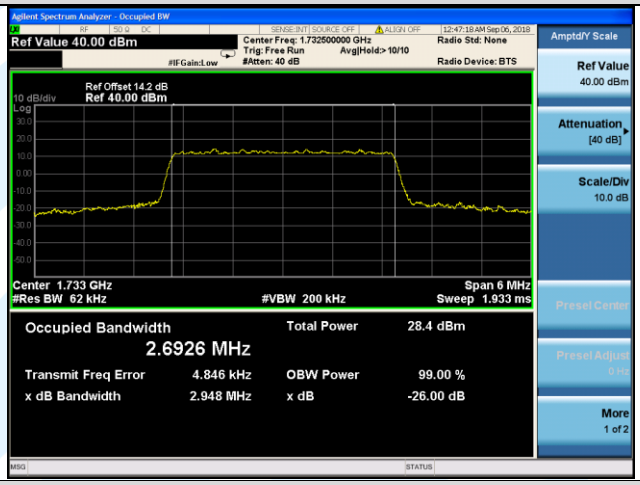
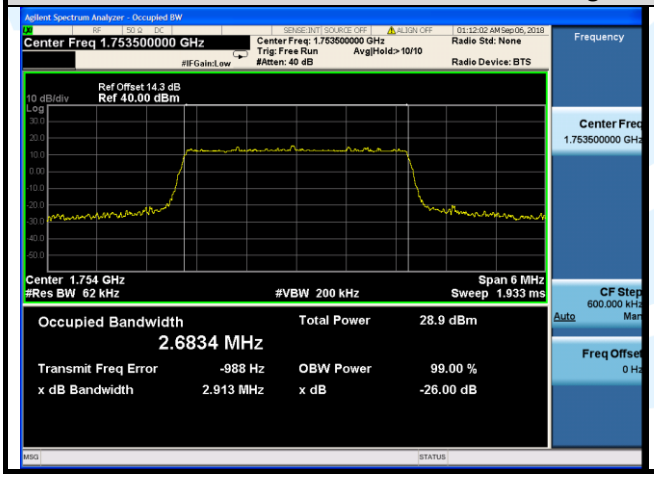
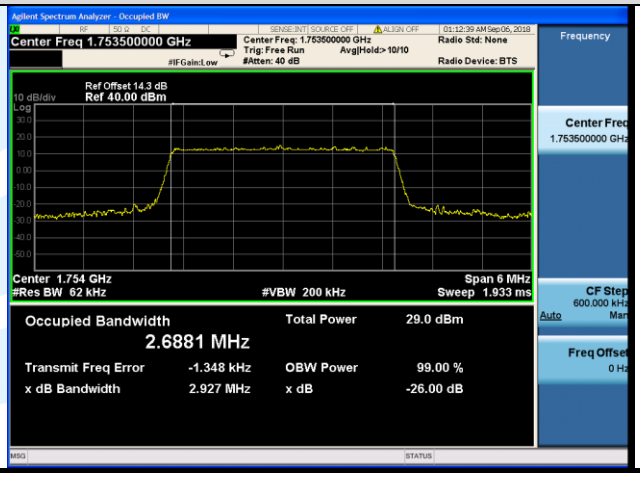


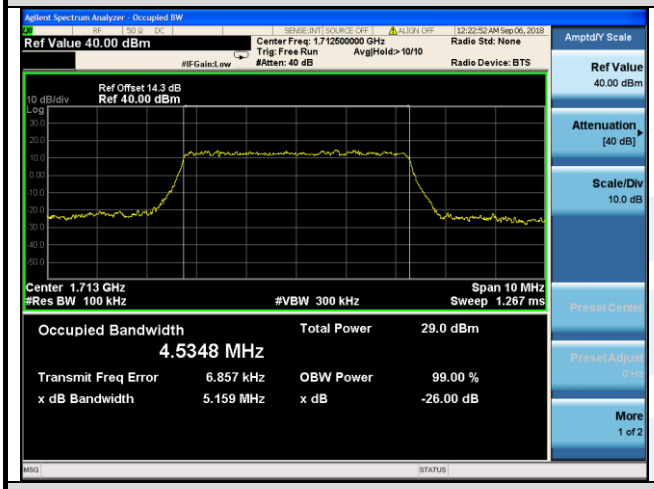
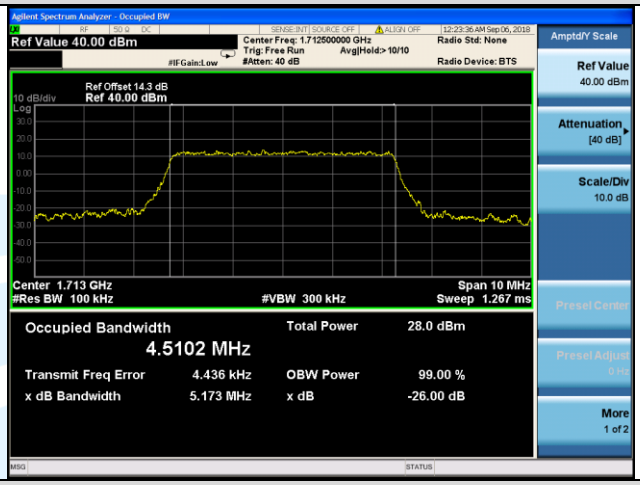
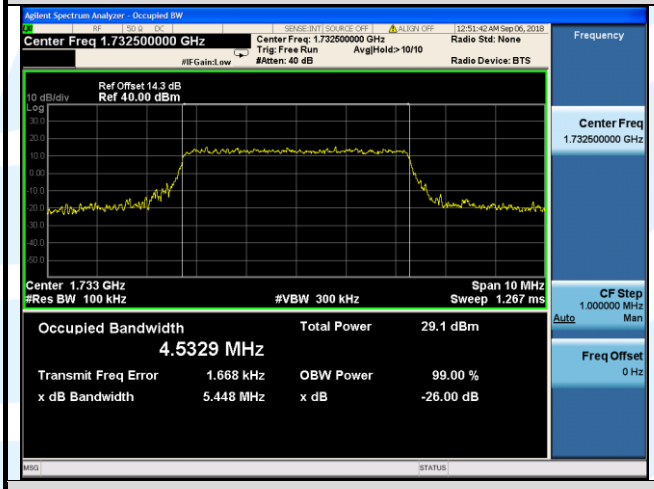
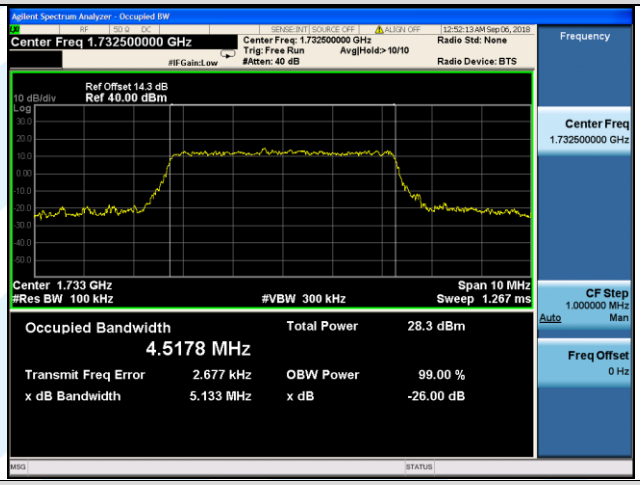
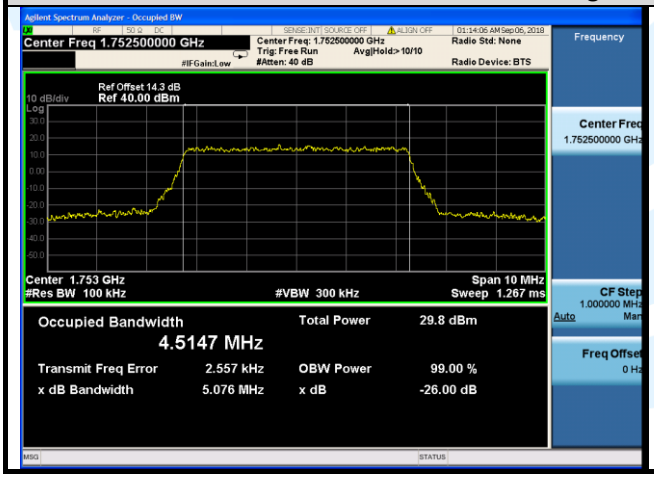
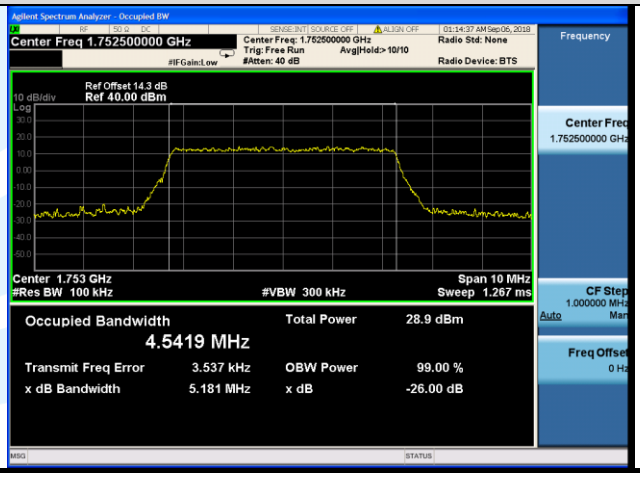
HSUPA	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	N/A

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	1.303	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
Channel Bandwidth: 3 MHz								
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
Channel Bandwidth: 5 MHz								
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
Channel Bandwidth: 10 MHz								
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
Channel Bandwidth: 15 MHz								
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
Channel Bandwidth: 20 MHz								
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

LTE Band 4_ Channel Bandwidth: 1.4 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 4_ Channel Bandwidth: 3 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 4_ Channel Bandwidth: 5 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel