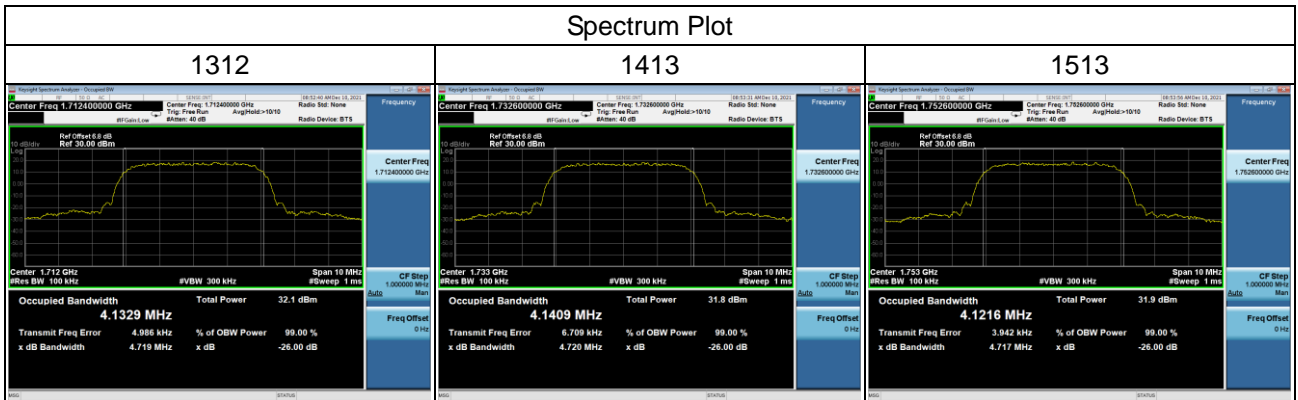
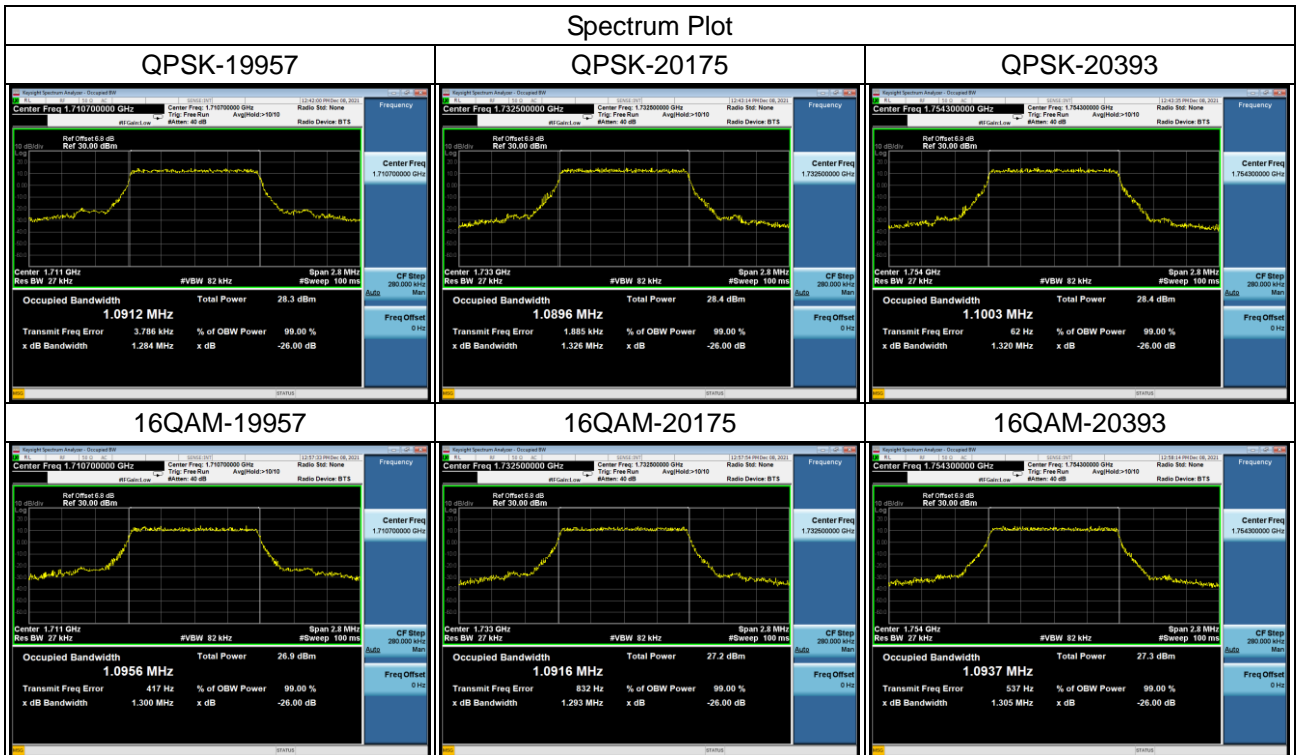


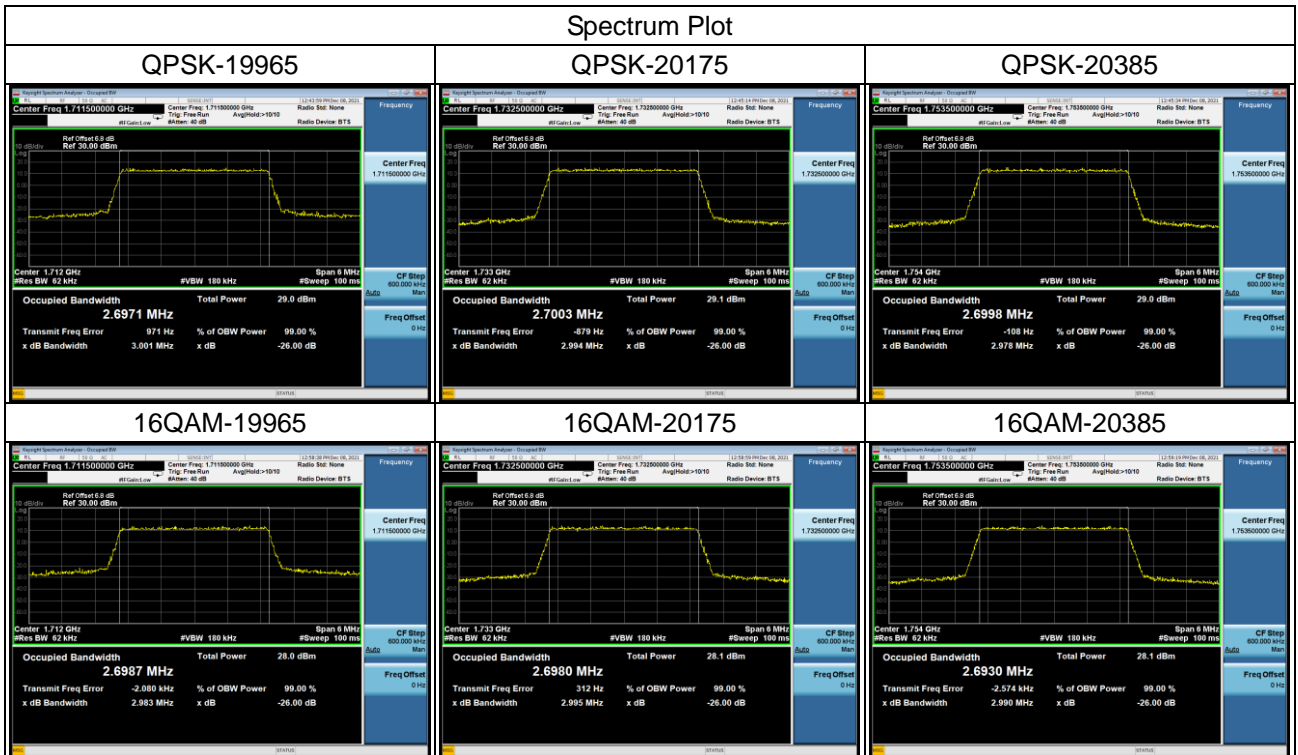
WCDMA Band IV_WCDMA			
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	QPSK
1312	1712.4	4.1329	4.719
1413	1732.6	4.1409	4.720
1513	1752.6	4.1216	4.717



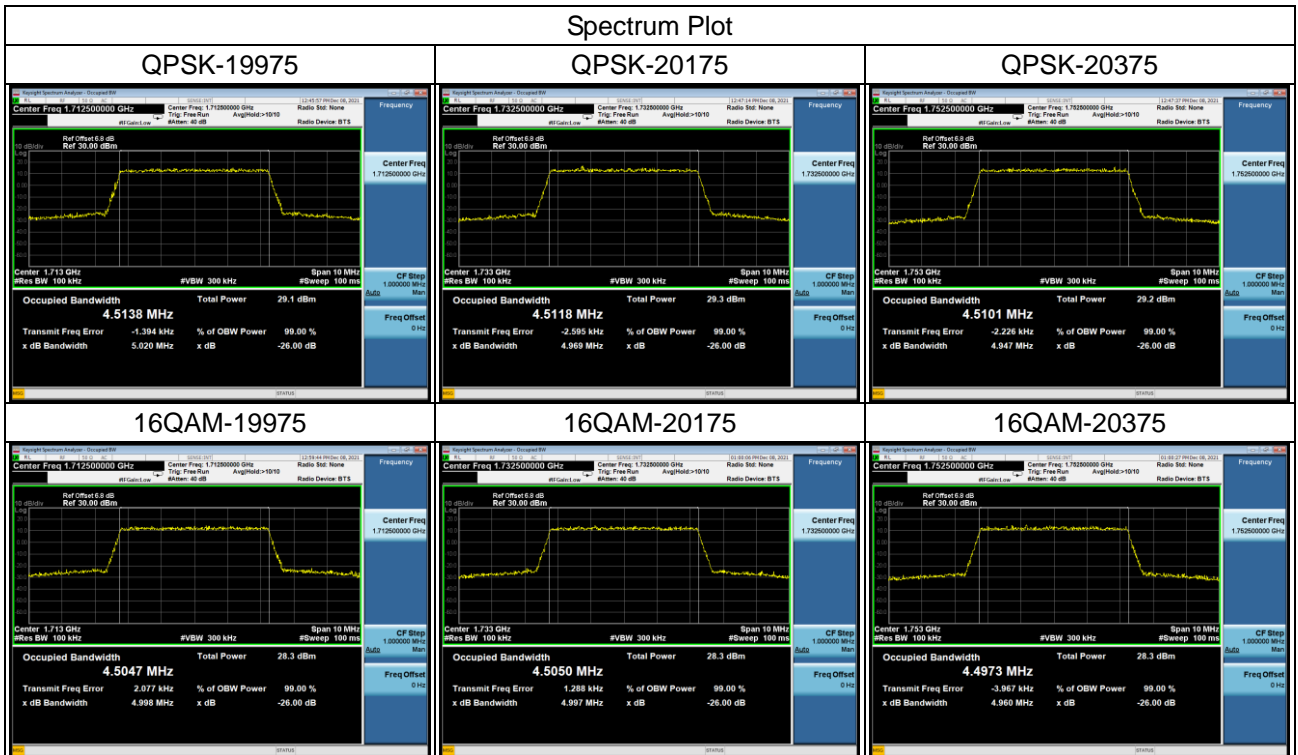
LTE Band 4_1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19957	1710.7	1.0912	1.0956	1.284	1.300
20175	1732.5	1.0896	1.0916	1.326	1.293
20393	1754.3	1.1003	1.0937	1.320	1.305



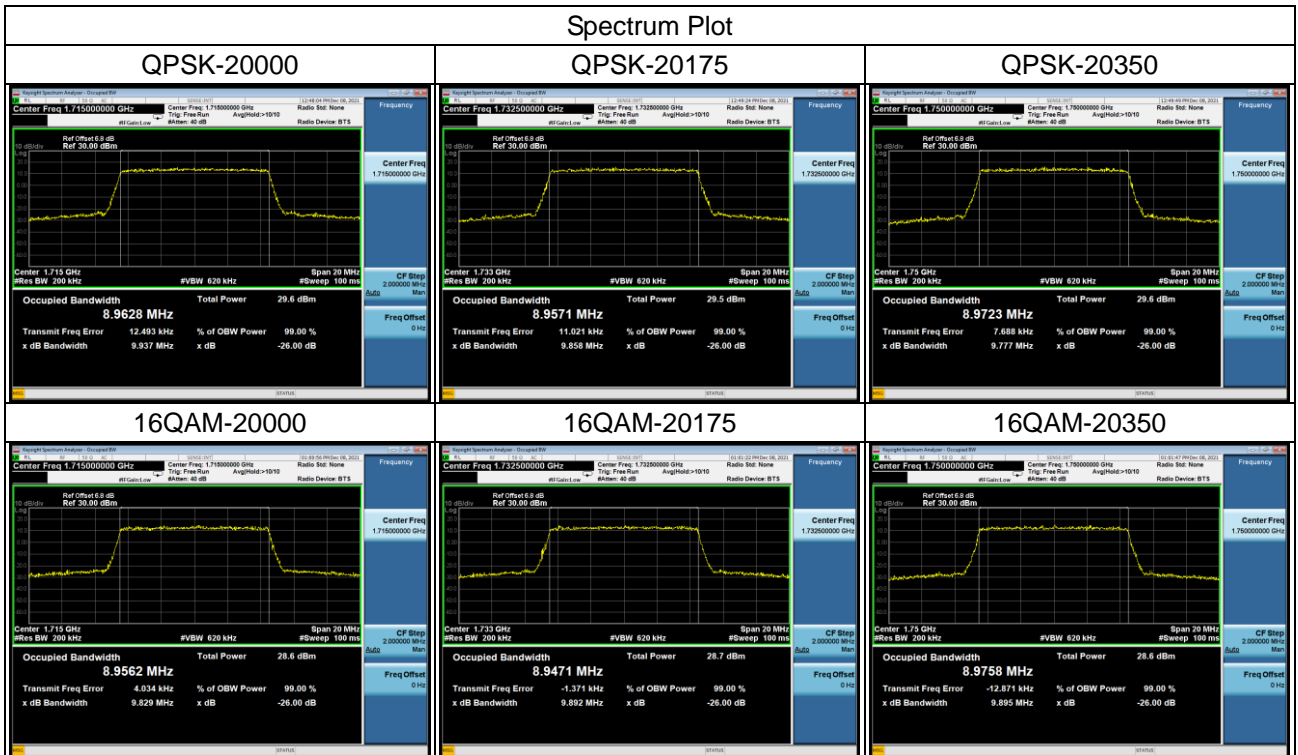
LTE Band 4_3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19965	1711.5	2.6971	2.6987	3.001	2.983
20175	1732.5	2.7003	2.6980	2.994	2.995
20385	1753.5	2.6998	2.6930	2.978	2.990



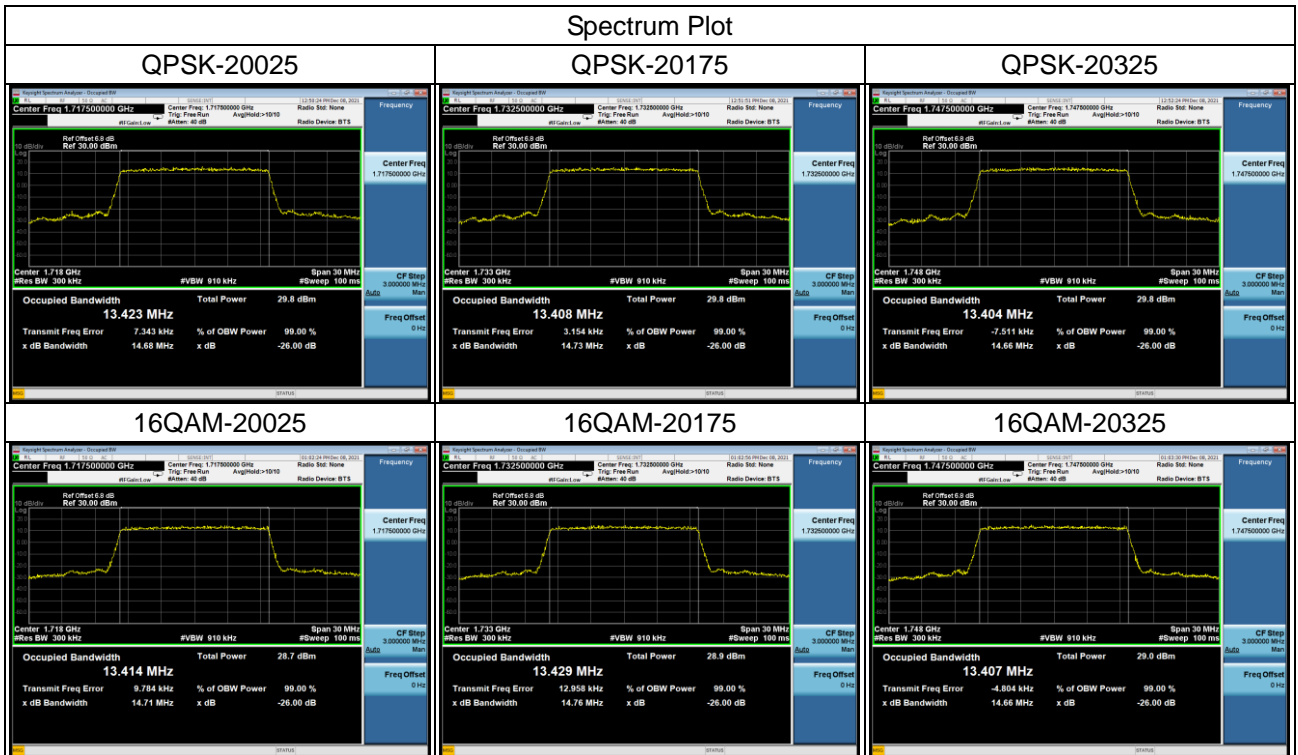
LTE Band 4_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
19975	1712.5	4.5138	4.5047	5.020	4.998
20175	1732.5	4.5118	4.5050	4.969	4.997
20375	1752.5	4.5101	4.4973	4.947	4.960



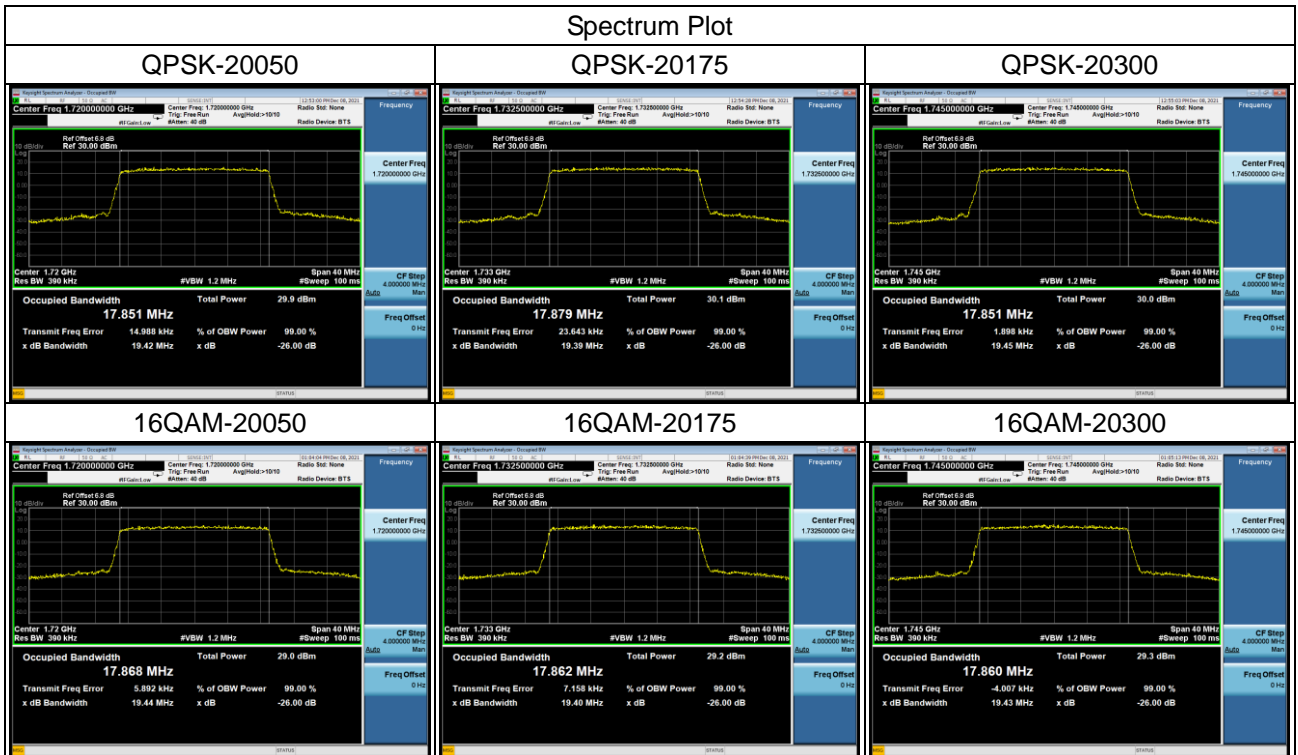
LTE Band 4_10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20000	1715	8.9628	8.9562	9.937	9.829
20175	1732.5	8.9571	8.9471	9.858	9.892
20350	1715	8.9723	8.9758	9.777	9.895



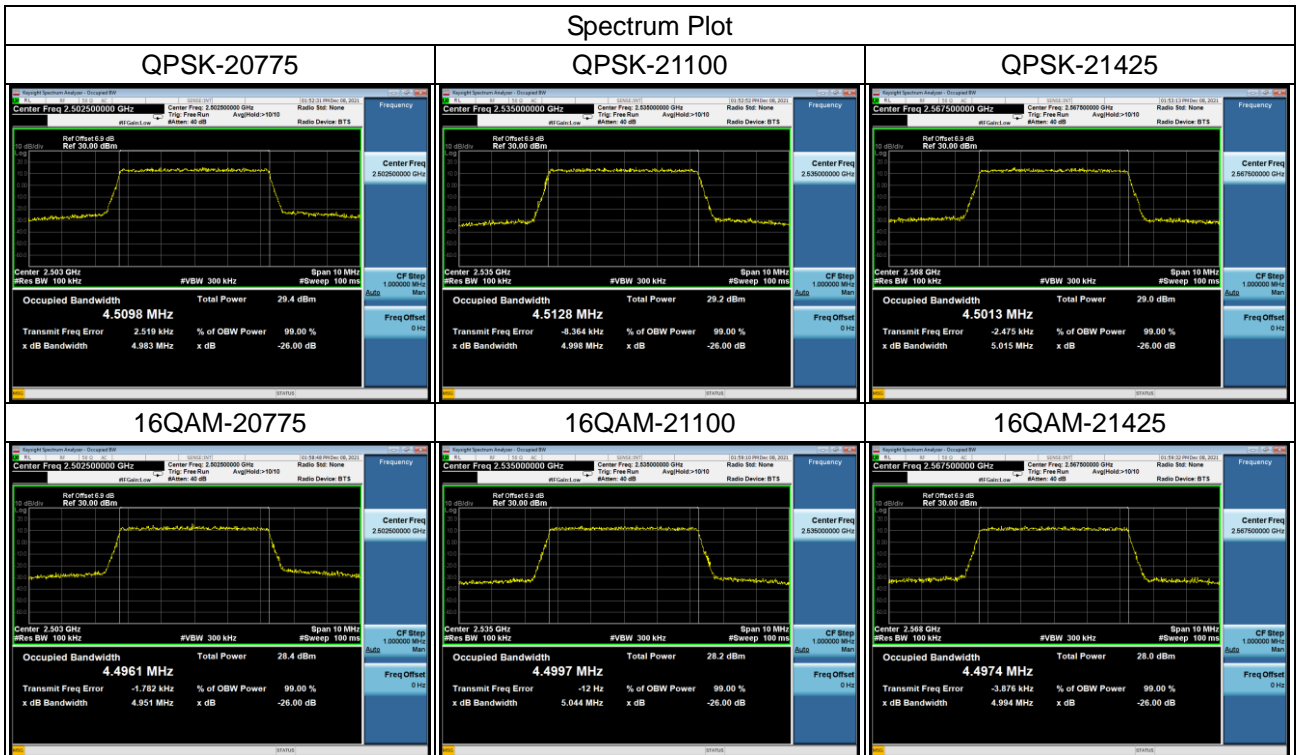
LTE Band 4_15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20025	1717.5	13.423	13.414	14.68	14.71
20175	1732.5	13.408	13.429	14.73	14.76
20325	1747.5	13.404	13.407	14.66	14.66



LTE Band 4_20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20050	1720	17.851	17.868	19.42	19.44
20175	1732.5	17.879	17.862	19.39	19.40
20300	1740	17.851	17.860	19.45	19.43

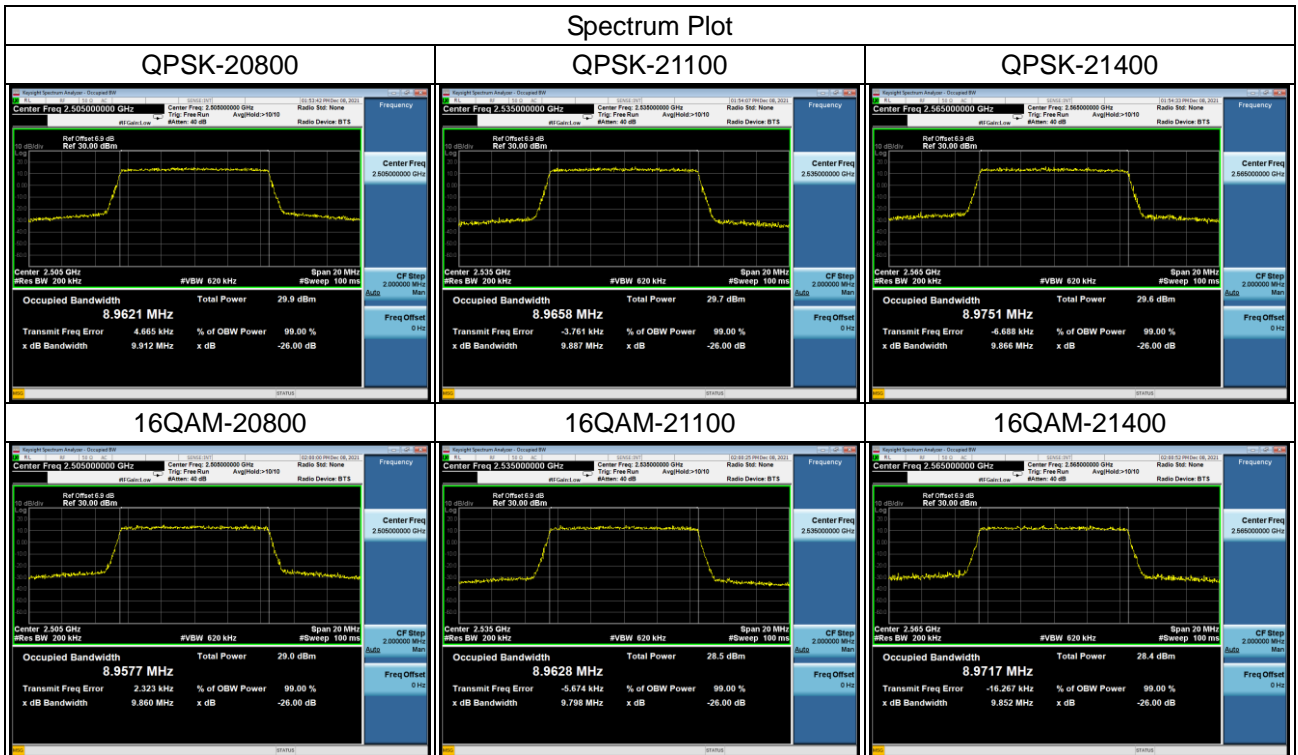


LTE Band 7_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20775	2502.5	4.5098	4.4961	4.983	4.951
21100	2535	4.5128	4.4997	4.998	5.044
21425	2567.5	4.5013	4.4974	5.015	4.994

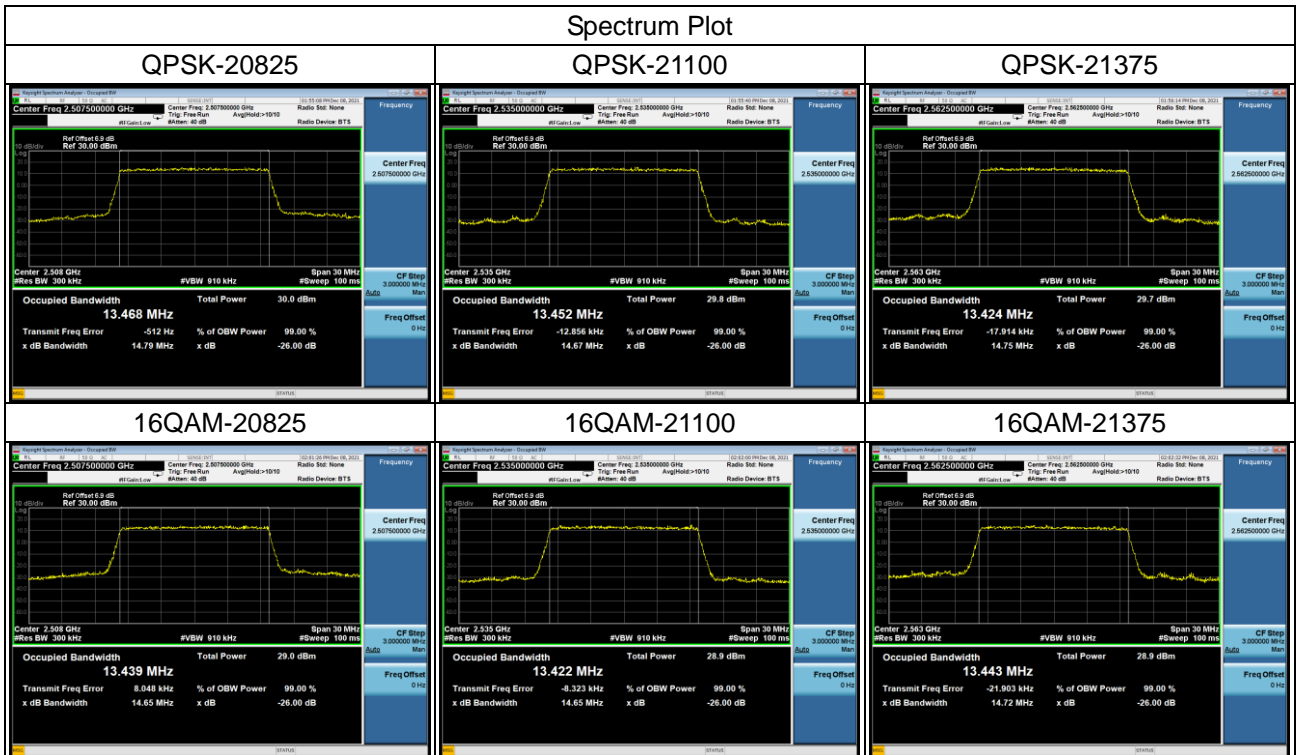




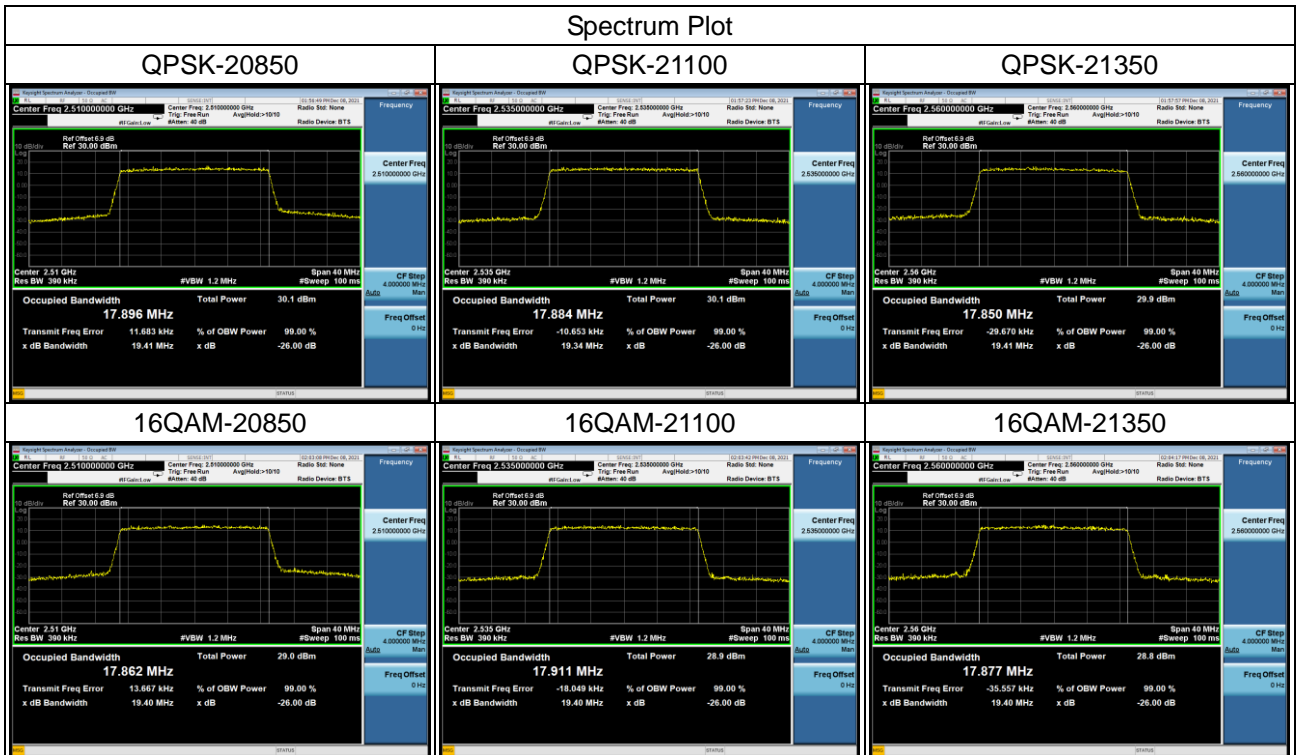
LTE Band 7_10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20800	2505	8.9621	8.9577	9.912	9.860
21100	2535	8.9658	8.9628	9.887	9.798
21400	2565	8.9751	8.9717	9.866	9.852



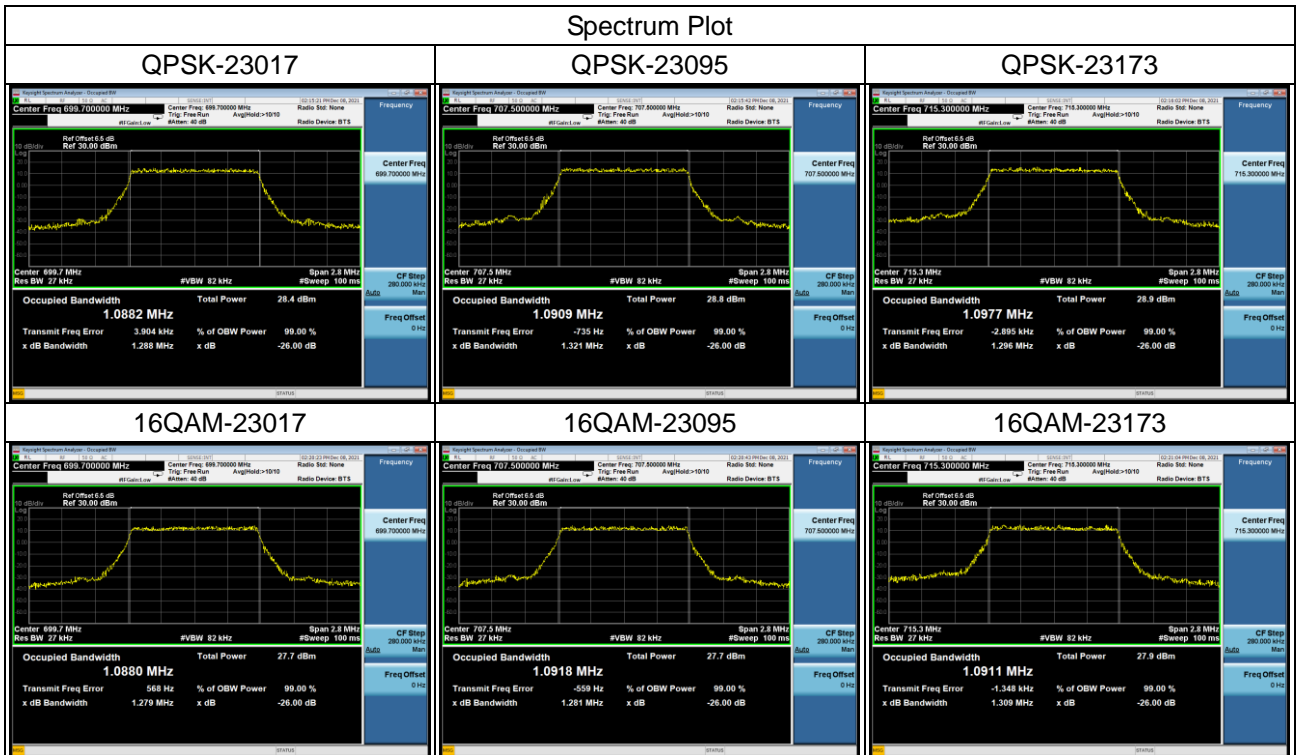
LTE Band 7_15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20825	2507.5	13.468	13.439	14.79	14.65
21100	2535	13.452	13.422	14.67	14.65
21375	2562.5	13.424	13.443	14.75	14.72



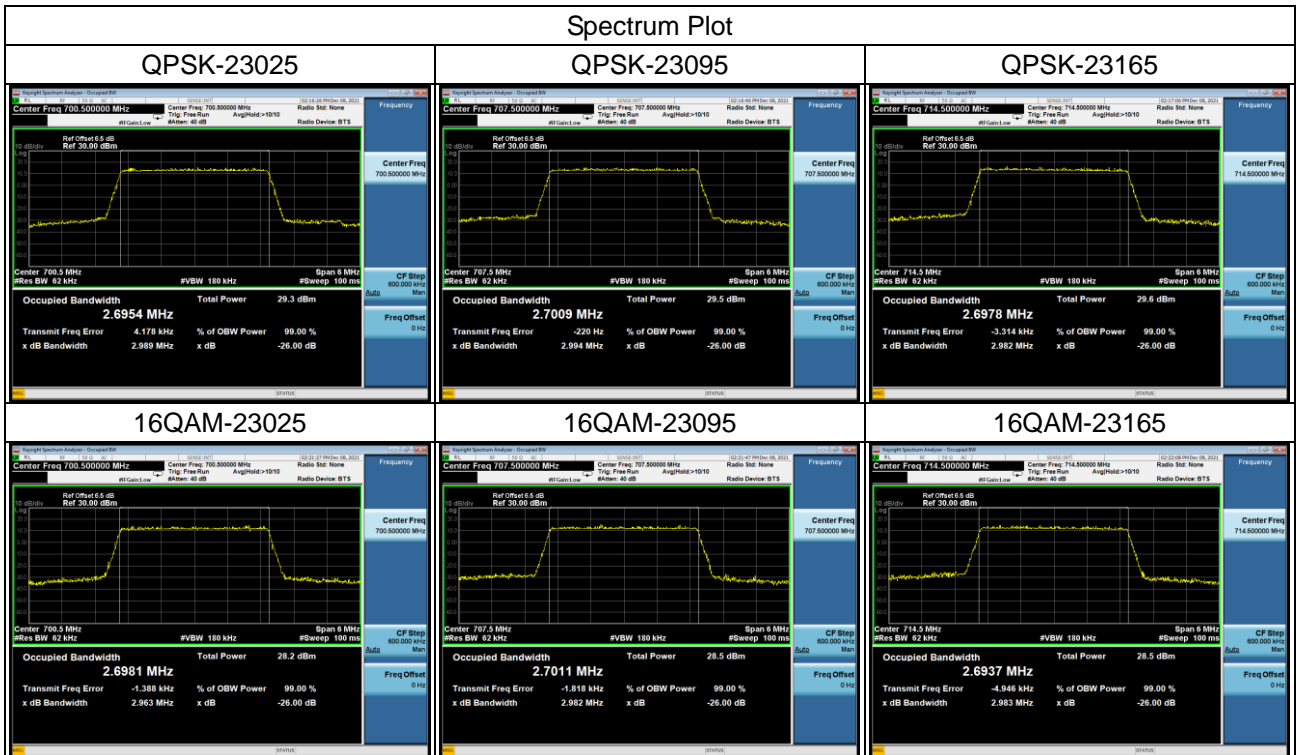
LTE Band 7_20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
20850	2510	17.896	17.862	19.41	19.40
21100	2535	17.884	17.911	19.34	19.40
21350	2560	17.850	17.877	19.41	19.40



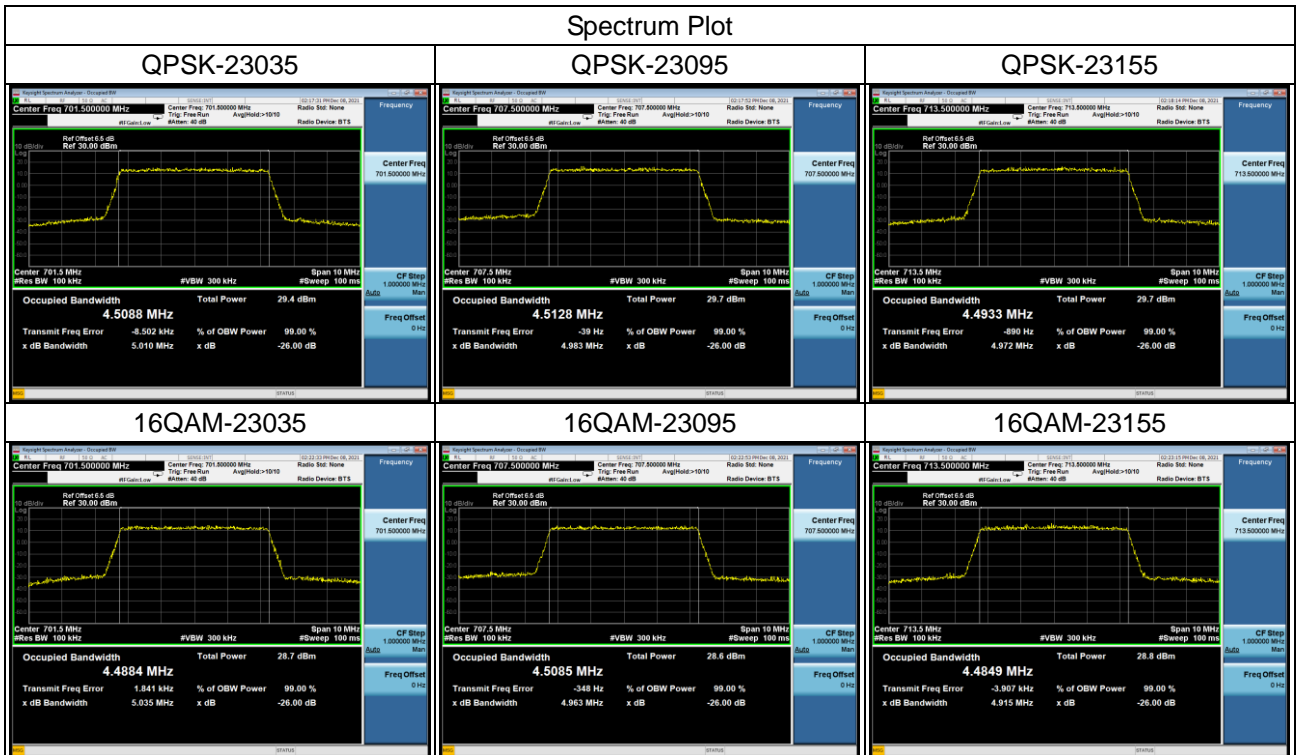
LTE Band 12_1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23017	699.7	1.0882	1.0880	1.288	1.279
23095	707.5	1.0909	1.0918	1.321	1.281
23173	715.3	1.0977	1.0911	1.296	1.309



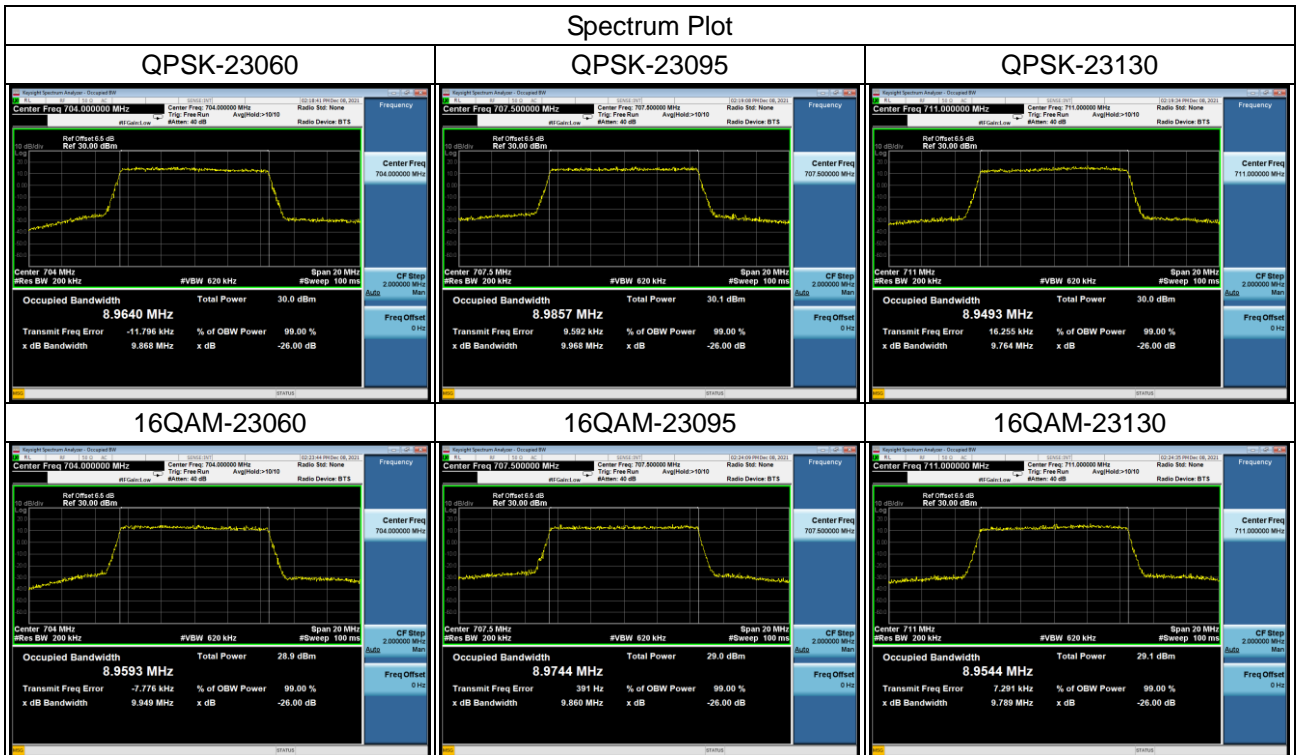
LTE Band 12_3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23025	700.5	2.6954	2.6981	2.989	2.963
23095	707.5	2.7009	2.7011	2.994	2.982
23165	714.5	2.6978	2.6937	2.982	2.983



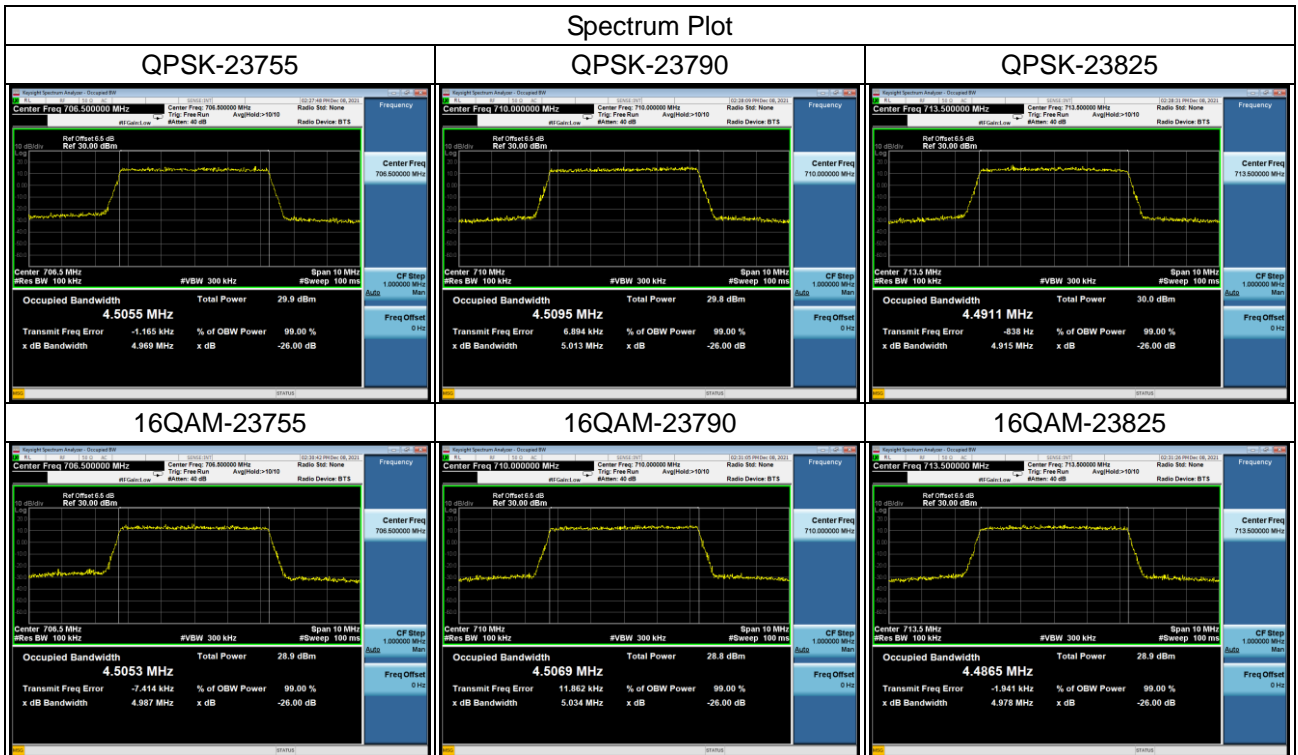
LTE Band 12_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23035	701.5	4.5088	4.4884	5.010	5.035
23095	707.5	4.5128	4.5085	4.983	4.963
23155	713.5	4.4933	4.4849	4.972	4.915



LTE Band 12_10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23060	704.0	8.9640	8.9593	9.868	9.949
23095	707.5	8.9857	8.9744	9.968	9.860
23130	711.0	8.9493	8.9544	9.764	9.789

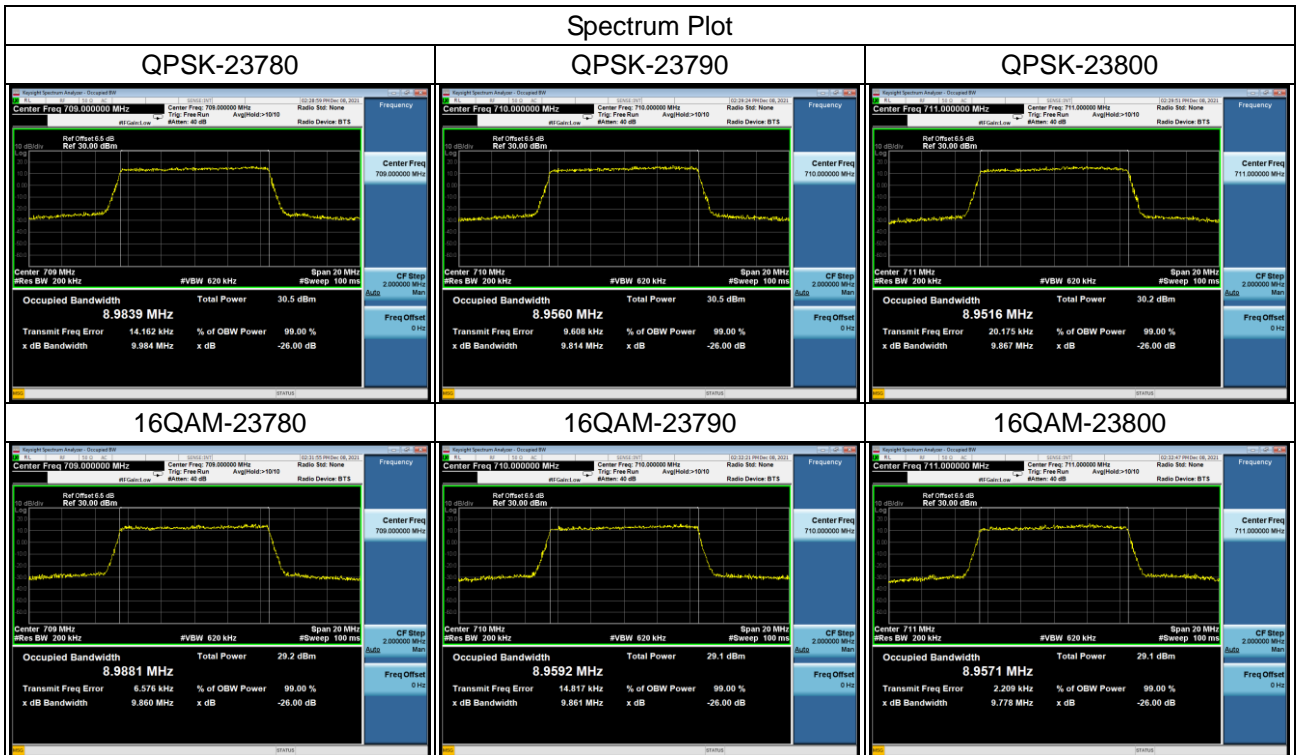


LTE Band 17_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23755	706.5	4.5055	4.5053	4.969	4.987
23790	710	4.5095	4.5069	5.013	5.034
23825	713.5	4.4911	4.4865	4.915	4.978





LTE Band 17_10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
23780	709	8.9839	8.9881	9.984	9.860
23790	710	8.9560	8.9592	9.814	9.861
23800	711	8.9516	8.9571	9.867	9.778



LTE Band 38_5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)		26dB Bandwidth (MHz)	
		QPSK	16QAM	QPSK	16QAM
37775	2572.5	4.5077	4.5052	5.146	5.177
38000	2595	4.5368	4.5026	5.714	5.003
38225	2617.5	4.5919	4.5080	6.305	5.580

