



Band40-5MHz-16QAM-38775-1RB#0



Band40-5MHz-16QAM-38775-25RB#0



Band40-5MHz-16QAM-39175-1RB#0



Band40-5MHz-16QAM-39175-25RB#0



Band40-5MHz-16QAM-39225-1RB#0



Band40-5MHz-16QAM-39225-25RB#0



Band40-10MHz-QPSK-38750-1RB#0



Band40-10MHz-QPSK-38750-50RB#0



Band40-10MHz-QPSK-39200-1RB#0



Band40-10MHz-QPSK-39200-50RB#0



Band40-10MHz-16QAM-38750-1RB#0



Band40-10MHz-16QAM-38750-50RB#0



Band40-10MHz-16QAM-39200-1RB#0



Band40-10MHz-16QAM-39200-50RB#0





Band41_20MHz_QPSK_40690_100RB#0



Band41_20MHz_16QAM_40690_100RB#0





5.4 99% and -26 dB Occupied Bandwidth

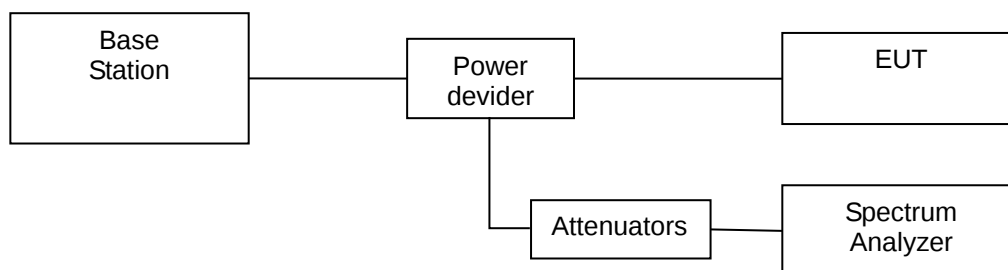
5.4.1 Limit

N/A

5.4.2 Test procedure

1. The EUT' RF output port was connected to Spectrum Analyzer and Base Station via power divider.
2. Spectrum analyzer's occupied bandwidth measure function was used to measure 99% bandwidth and -26dBc bandwidth

5.4.3 Test setup





5.4.4 Test results

Note1: all modes of RB configurations have been tested, and only worst configuration data listed.

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0916	1.272	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0911	1.255	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0894	1.268	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0925	1.263	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0923	1.256	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0909	1.263	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6992	2.930	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.6964	2.919	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.6947	2.950	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6957	2.928	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.7012	2.927	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6950	2.915	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.5053	4.890	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.5010	4.912	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.5067	4.878	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5038	4.892	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.4977	4.890	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5045	4.880	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9590	9.532	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9590	9.577	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9656	9.545	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9645	9.552	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9633	9.556	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9614	9.519	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.444	14.27	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.449	14.25	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.423	14.23	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.444	14.28	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.436	14.26	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.415	14.24	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.911	18.93	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.898	18.93	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.871	18.94	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.883	18.94	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.888	18.97	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.876	18.98	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0936	1.265	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0908	1.271	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0897	1.280	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0933	1.279	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0913	1.271	PASS



Band4	1.4MHz	16QAM	20393	6RB#0	1.0898	1.247	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6965	2.935	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6972	2.931	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7004	2.924	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6958	2.934	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6964	2.913	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6931	2.908	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5023	4.866	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5030	4.904	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5058	4.899	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5036	4.864	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9532	9.567	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9626	9.563	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9609	9.548	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9515	9.531	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9670	9.574	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9577	9.564	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.428	14.23	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.451	14.26	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.429	14.27	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.433	14.26	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.443	14.26	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.438	14.26	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.886	18.95	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.904	18.95	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.882	18.95	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.883	18.95	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.905	18.97	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.878	18.92	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.0905	1.262	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.0911	1.260	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.0945	1.270	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.0914	1.257	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.0894	1.266	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.0909	1.274	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.6984	2.932	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.6959	2.930	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.6953	2.921	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.6966	2.924	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.6967	2.932	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.7001	2.921	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.5027	4.899	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.4985	4.898	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.5054	4.888	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.5001	4.909	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.5048	4.888	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.5064	4.841	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.9661	9.552	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.9818	9.569	PASS



Band5	10MHz	QPSK	20600	50RB#0	8.9579	9.551	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.9707	9.524	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.9714	9.572	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9503	9.519	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4624	4.721	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4667	4.695	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4682	4.892	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.4785	4.858	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.4802	4.87	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.4862	4.841	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.427	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9131	9.348	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9215	9.389	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.93	9.39	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.911	9.315	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.8966	9.439	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.376	13.91	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.375	13.9	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.362	13.92	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.348	13.93	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.383	13.99	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.377	13.9	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.857	18.59	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.827	18.52	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.862	18.56	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.844	18.56	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.806	18.52	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.845	18.56	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.0939	1.264	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.0906	1.258	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.0914	1.254	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.0925	1.273	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.0893	1.246	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.0906	1.259	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.6963	2.907	PASS



Band12	3MHz	QPSK	23095	15RB#0	2.7027	2.910	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.6957	2.883	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.6895	2.921	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.7012	2.895	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.6914	2.904	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.5008	4.876	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.5139	4.900	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.4958	4.888	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.4953	4.884	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.5109	4.898	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.4992	4.838	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.9455	9.517	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.9815	9.525	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.9636	9.557	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.9402	9.505	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.9833	9.543	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.9582	9.530	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4886	4.847	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4981	4.843	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5031	4.897	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4898	4.877	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5011	4.851	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5091	4.878	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9482	9.542	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9560	9.533	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.5051	4.913	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.5125	4.806	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4980	4.968	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4965	4.845	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5010	4.904	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4978	4.857	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9669	9.519	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9551	9.491	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9573	9.551	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9610	9.523	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9566	9.507	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9673	9.639	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.450	14.23	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.443	14.25	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.446	14.27	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.432	14.27	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.461	14.26	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.454	14.27	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.902	18.94	PASS



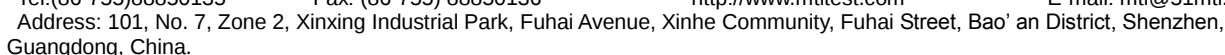
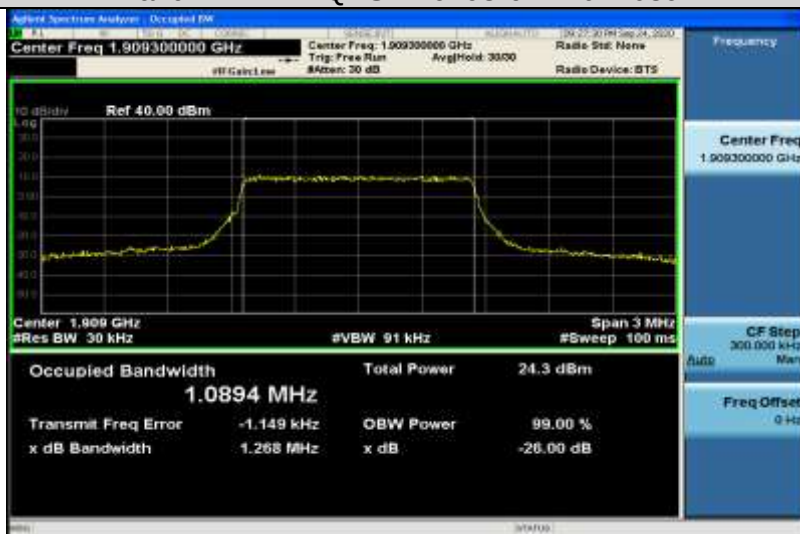
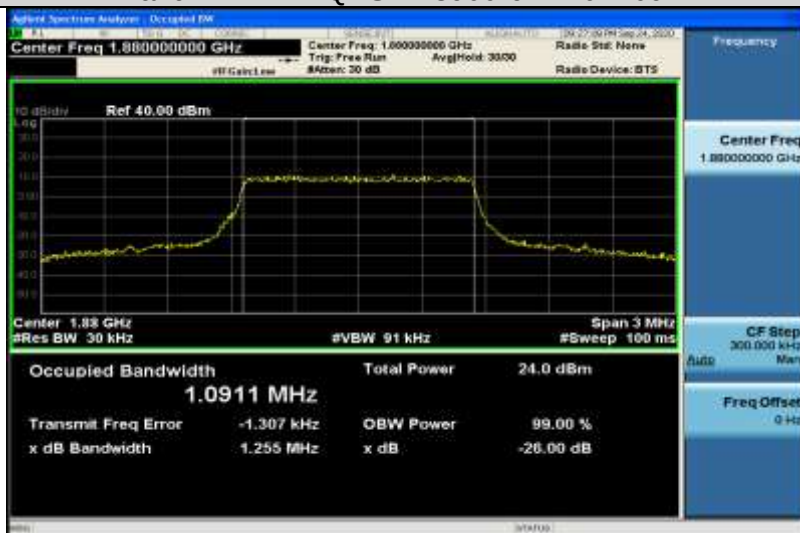
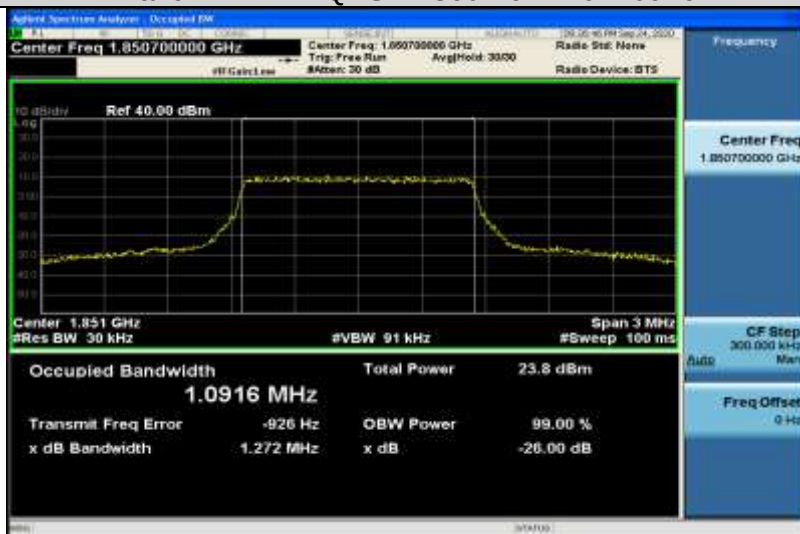
Band38	20MHz	QPSK	38000	100RB#0	17.904	18.93	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.918	18.95	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.899	18.94	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.908	18.97	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.911	18.94	PASS

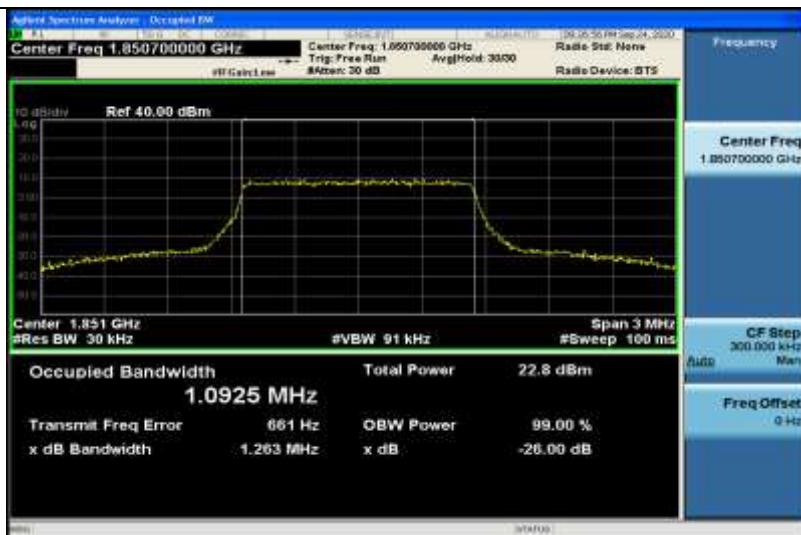
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Band40	5MHz	QPSK	39175	25RB#0	4.4928	4.855	PASS
Band40	5MHz	QPSK	39225	25RB#0	4.4997	4.843	PASS
Band40	5MHz	16QAM	39175	25RB#0	4.4962	4.873	PASS
Band40	5MHz	16QAM	39225	25RB#0	4.4930	4.828	PASS
Band40	10MHz	QPSK	38750	50RB#0	8.9635	9.516	PASS
Band40	10MHz	QPSK	39200	50RB#0	8.9697	9.484	PASS
Band40	10MHz	16QAM	38750	50RB#0	8.9618	9.522	PASS
Band40	10MHz	16QAM	39200	50RB#0	8.9552	9.549	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	40265	25RB#0	4.512	4.916	PASS
Band41	5MHz	QPSK	40690	25RB#0	4.5096	4.867	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.5109	4.901	PASS
Band41	5MHz	16QAM	40265	25RB#0	4.5093	4.866	PASS
Band41	5MHz	16QAM	40690	25RB#0	4.5101	4.891	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.5088	4.87	PASS
Band41	10MHz	QPSK	40290	50RB#0	8.9757	9.514	PASS
Band41	10MHz	QPSK	40690	50RB#0	8.9867	9.508	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.9684	9.555	PASS
Band41	10MHz	16QAM	40290	50RB#0	8.9799	9.55	PASS
Band41	10MHz	16QAM	40690	50RB#0	8.9835	9.553	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.9785	9.567	PASS
Band41	15MHz	QPSK	40315	75RB#0	13.473	14.27	PASS
Band41	15MHz	QPSK	40690	75RB#0	13.493	14.25	PASS
Band41	15MHz	QPSK	41165	75RB#0	13.49	14.27	PASS
Band41	15MHz	16QAM	40315	75RB#0	13.485	14.32	PASS
Band41	15MHz	16QAM	40690	75RB#0	13.483	14.33	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.489	14.31	PASS
Band41	20MHz	QPSK	40340	100RB#0	17.953	18.95	PASS
Band41	20MHz	QPSK	40690	100RB#0	18.001	18.98	PASS
Band41	20MHz	QPSK	41140	100RB#0	17.972	18.98	PASS
Band41	20MHz	16QAM	40340	100RB#0	17.963	18.97	PASS
Band41	20MHz	16QAM	40690	100RB#0	17.998	19	PASS
Band41	20MHz	16QAM	41140	100RB#0	17.963	18.97	PASS

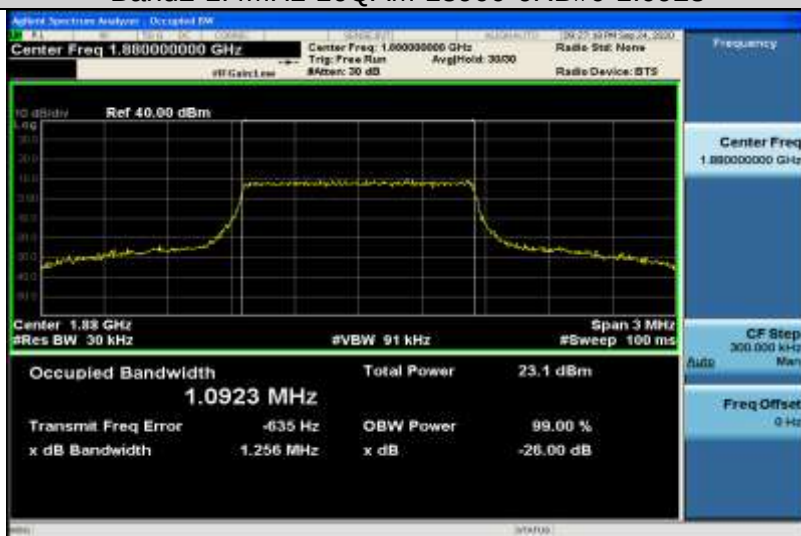


LTE Band 2

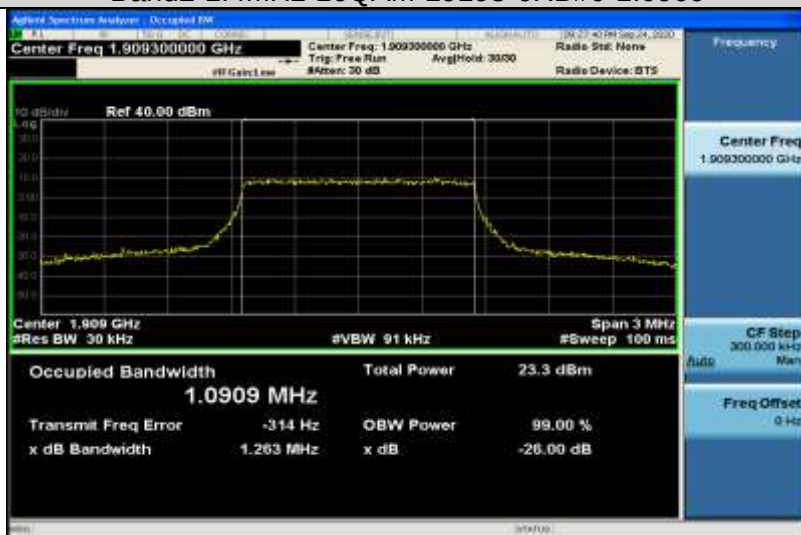




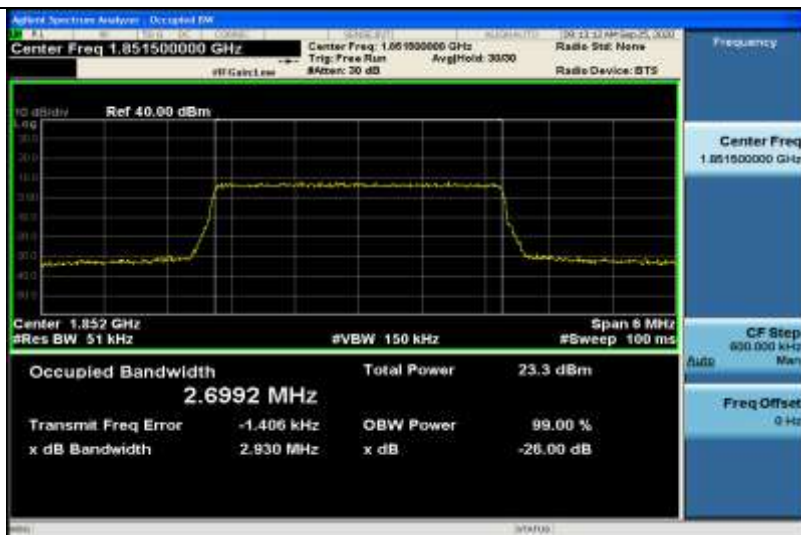
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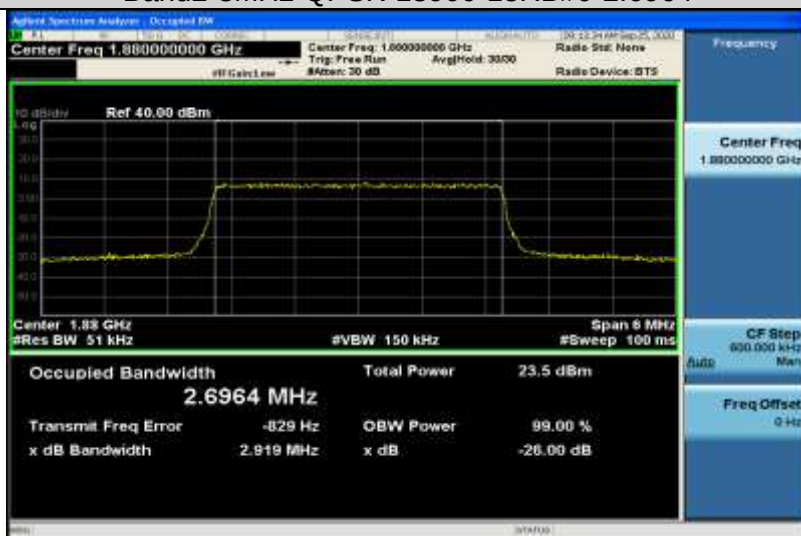
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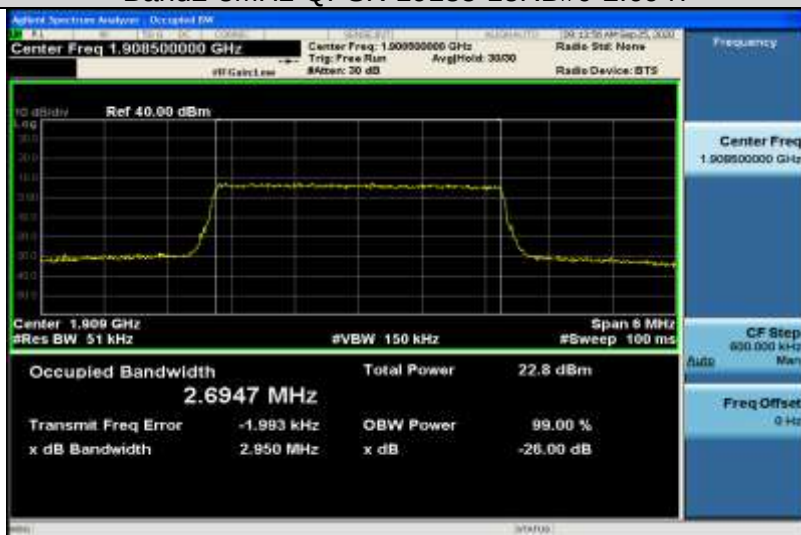
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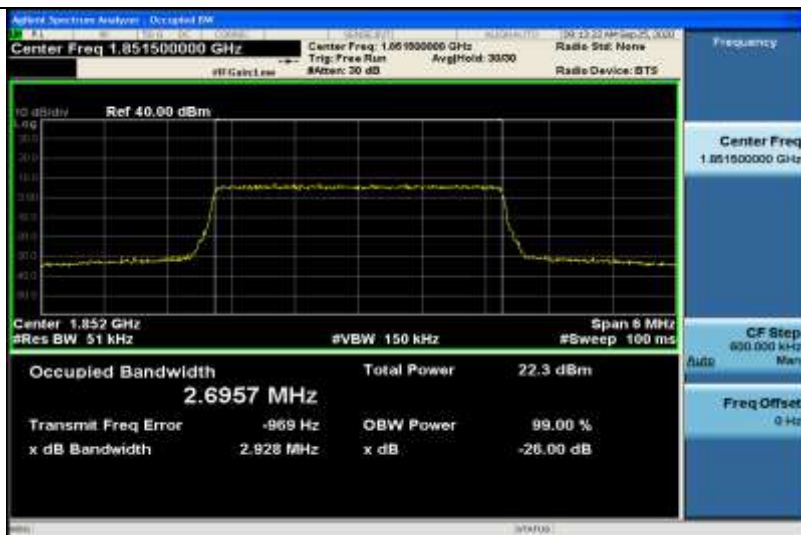
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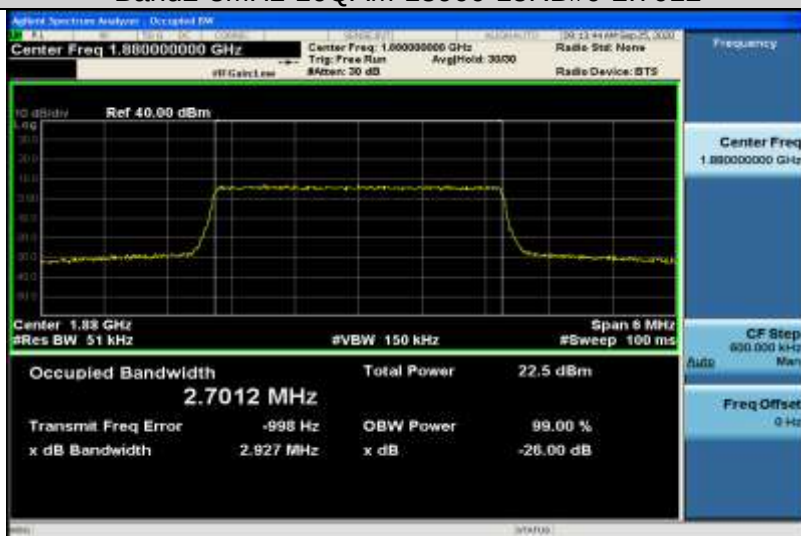
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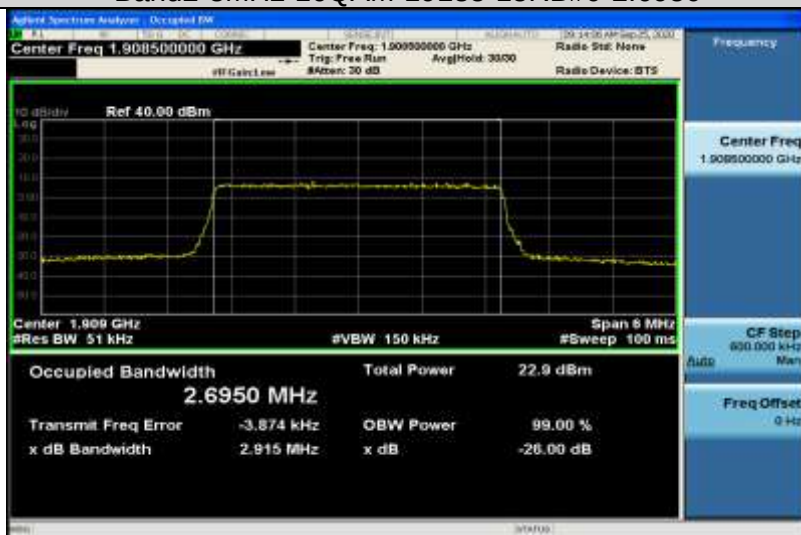
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Band2-3MHz-16QAM-18900-15RB#0-2.7012



Band2-3MHz-16QAM-19185-15RB#0-2.6950



Band2-5MHz-QPSK-18625-25RB#0-4.5053



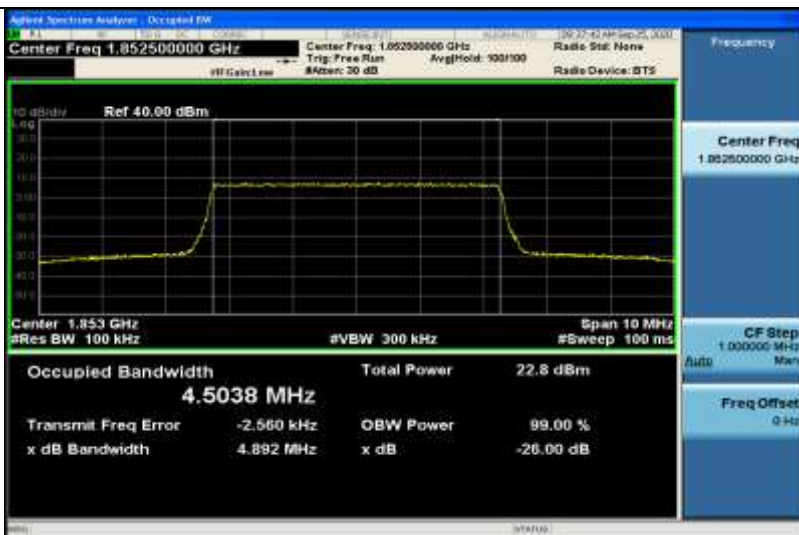
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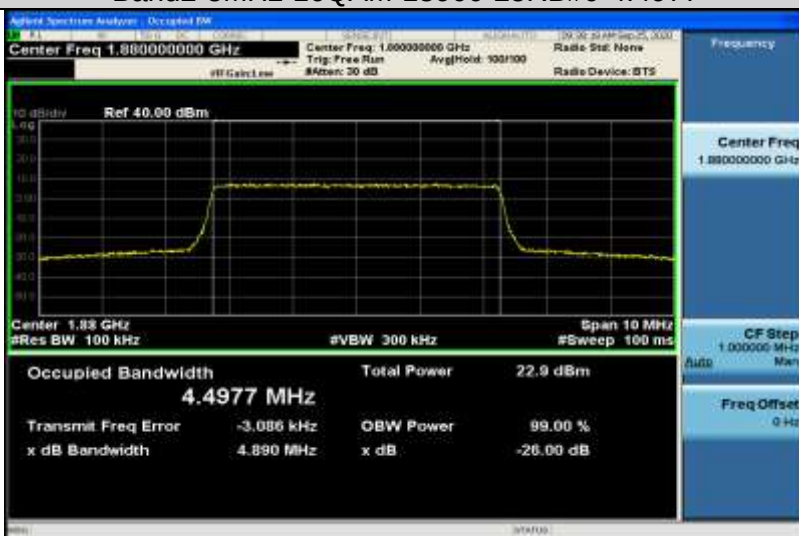
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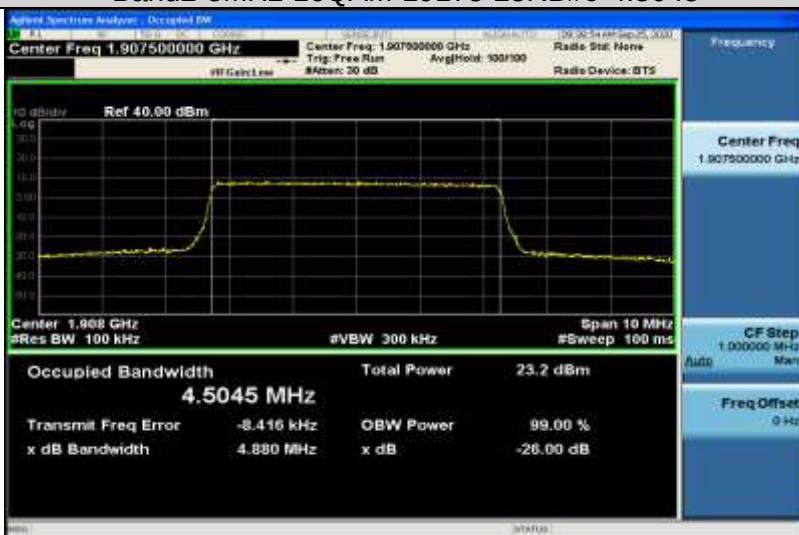
Band2-5MHz-16QAM-18625-25RB#0-4.5038



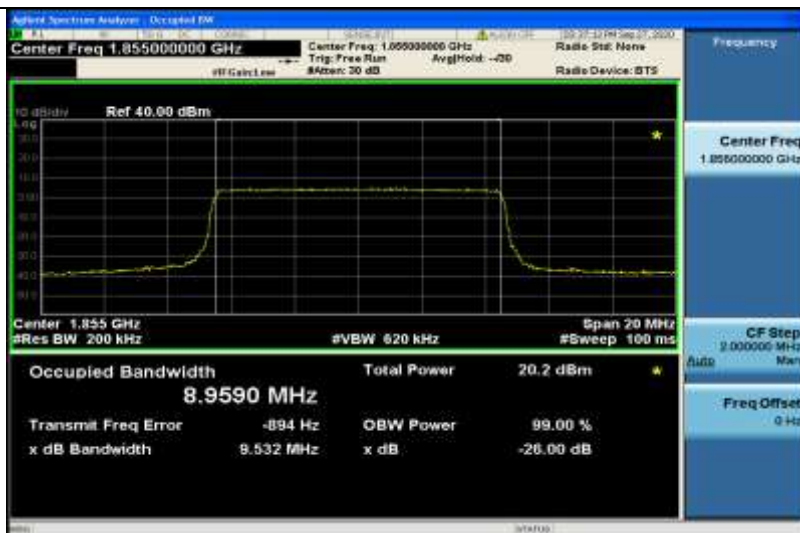
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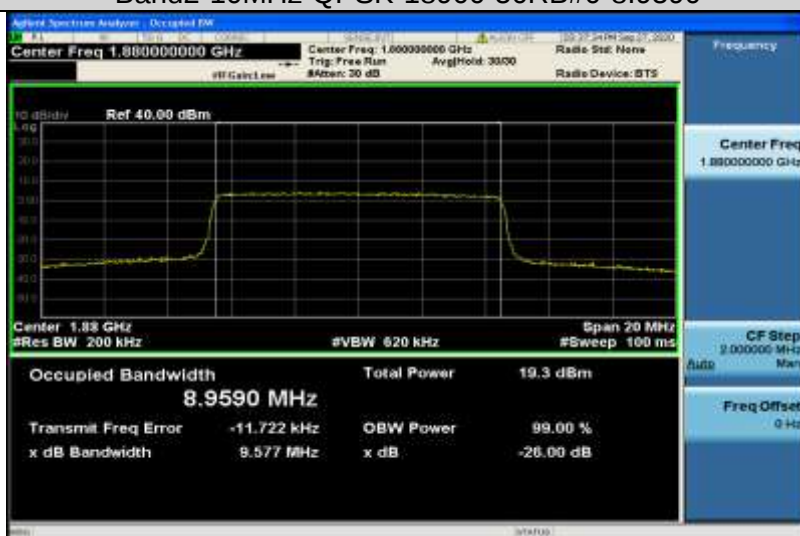
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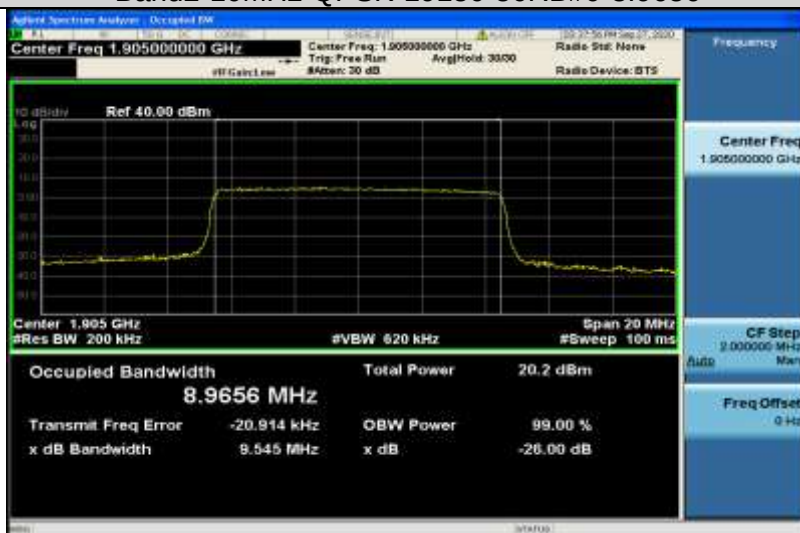
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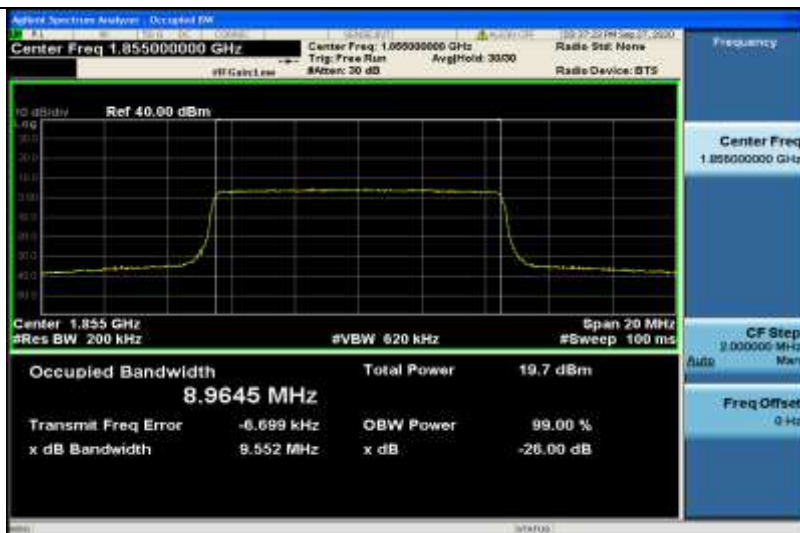
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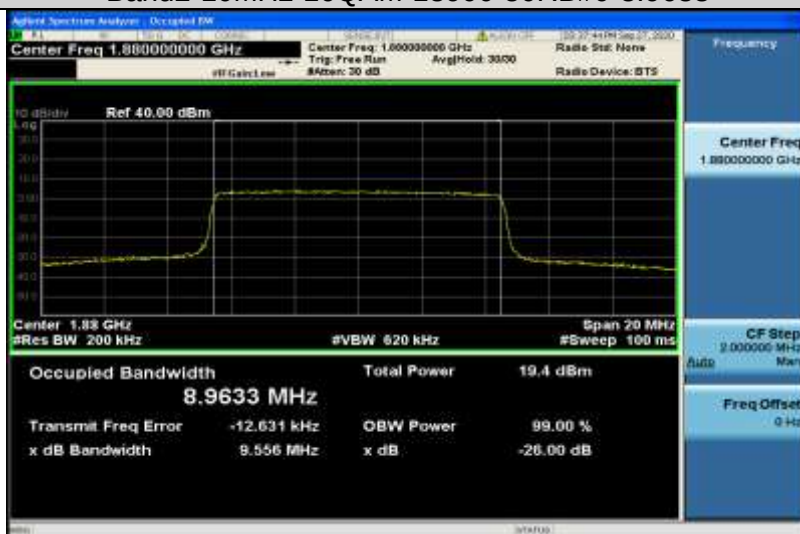
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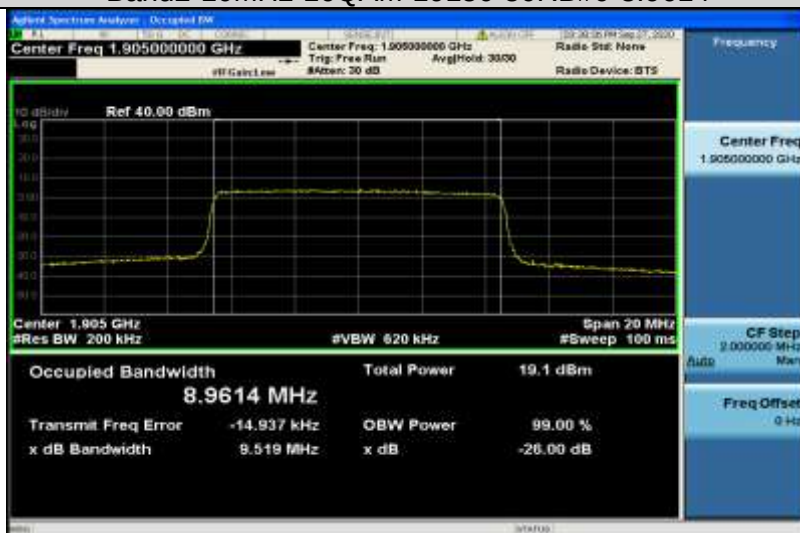
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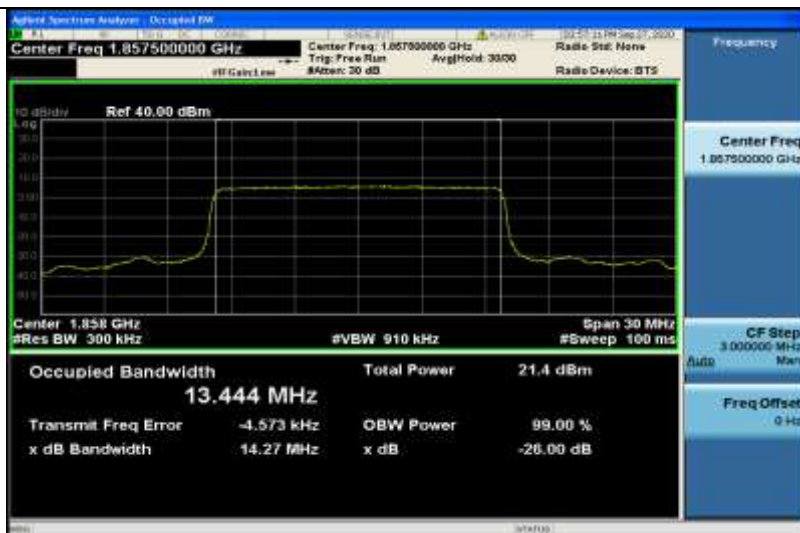
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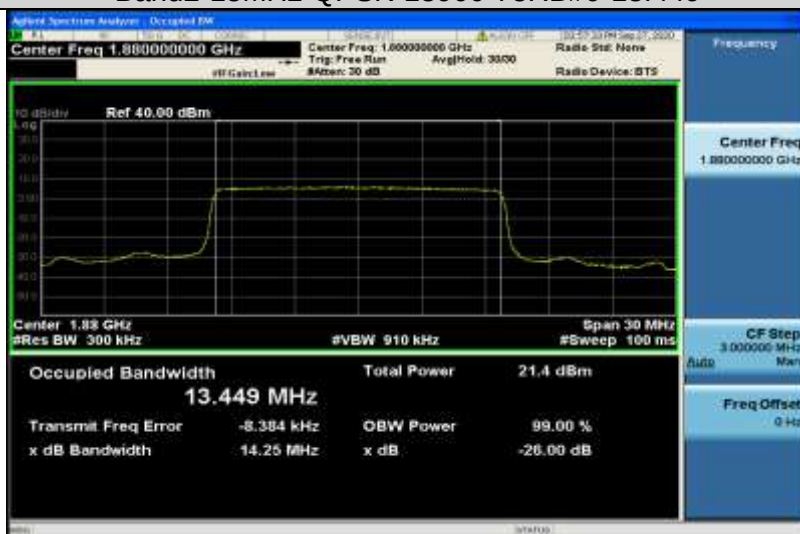
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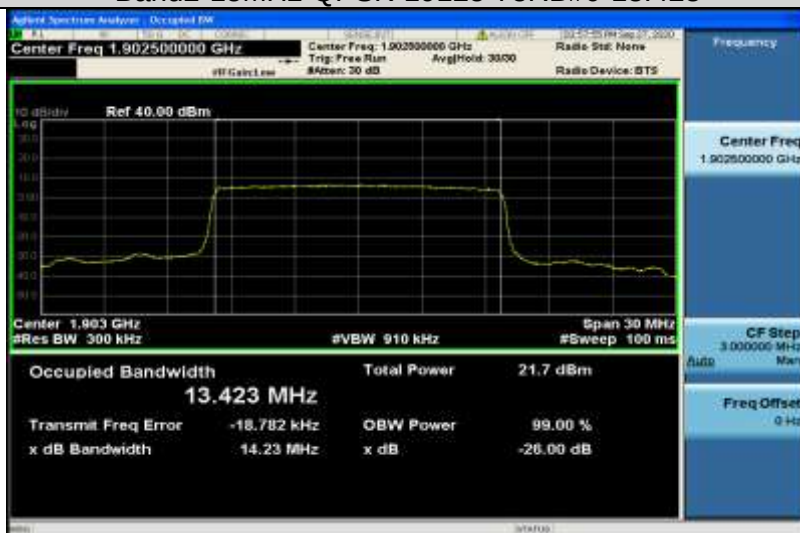
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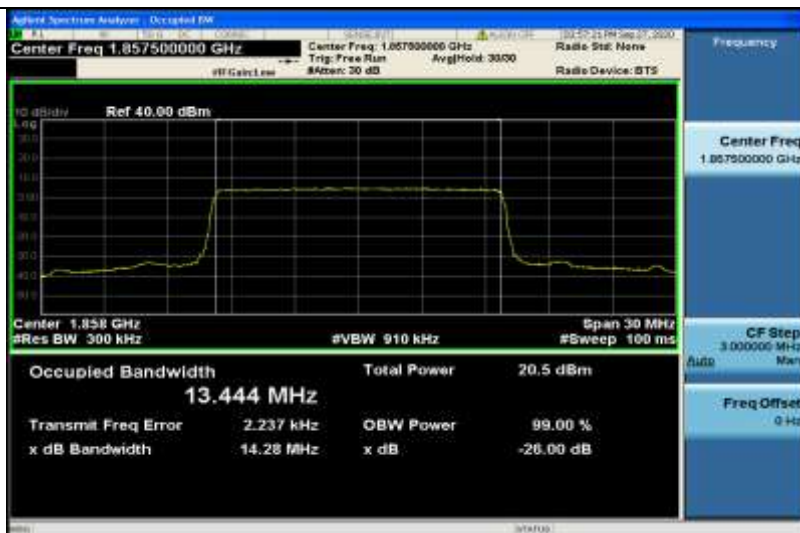
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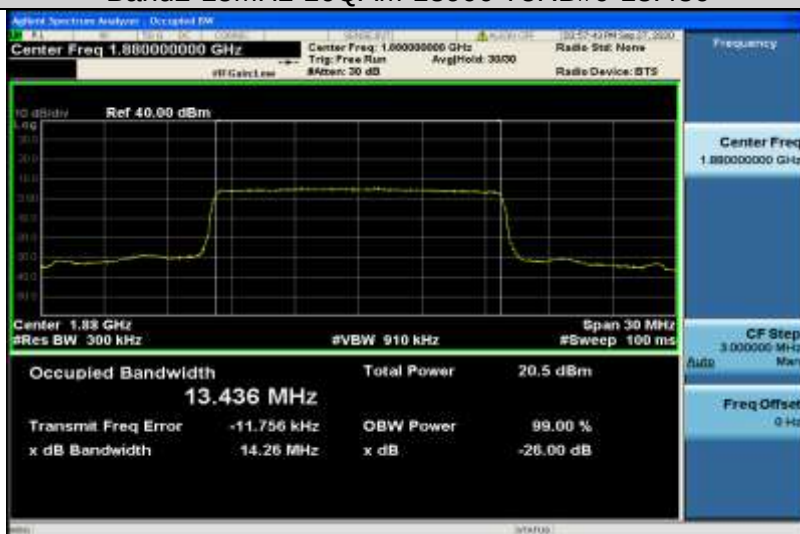
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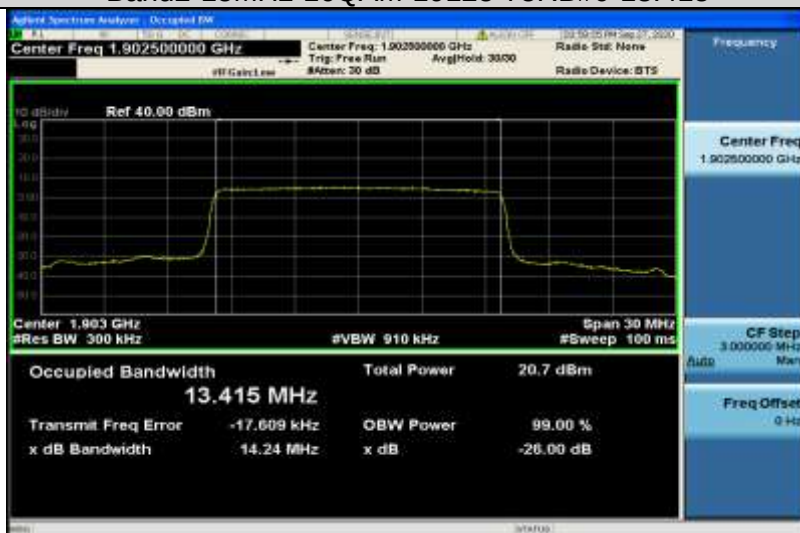
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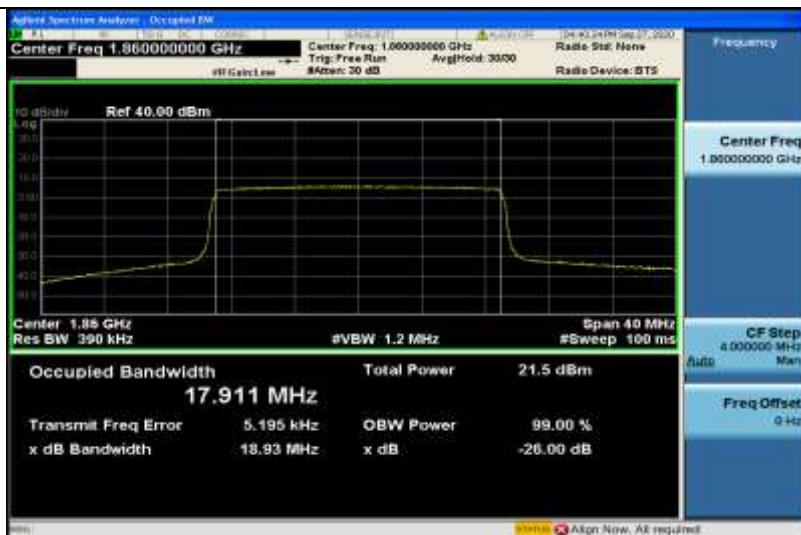
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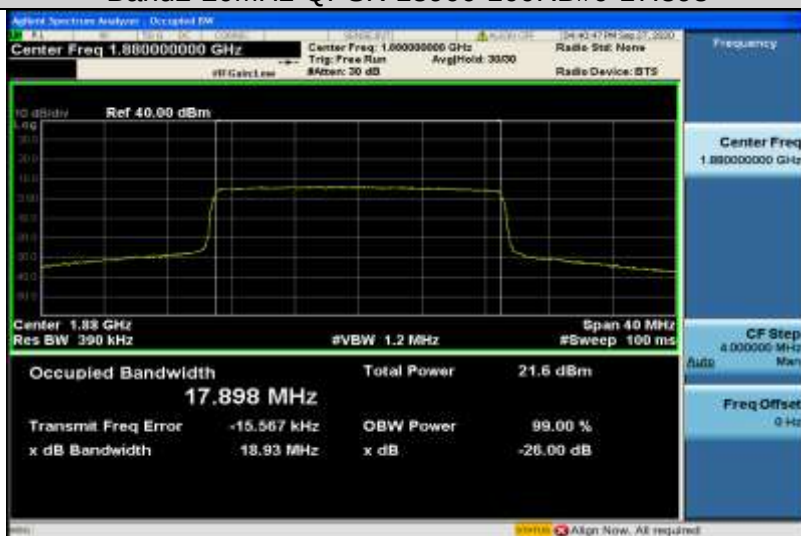
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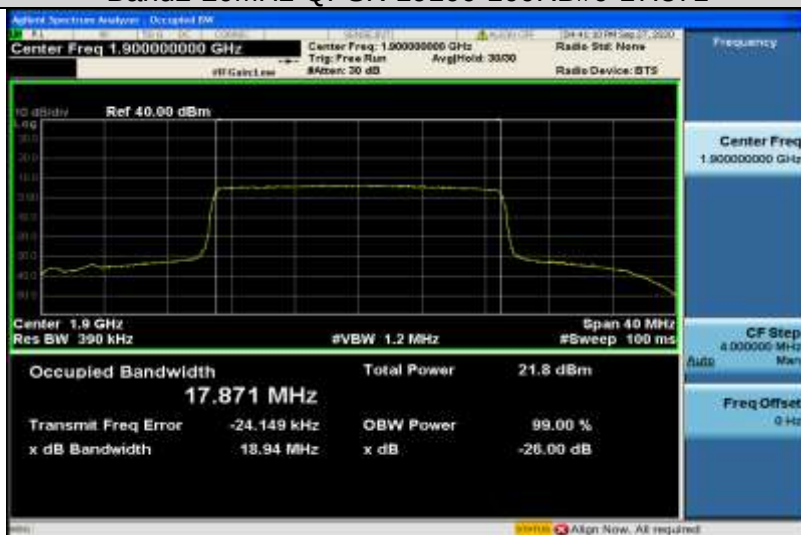
Band2-20MHz-QPSK-18700-100RB#0-17.911



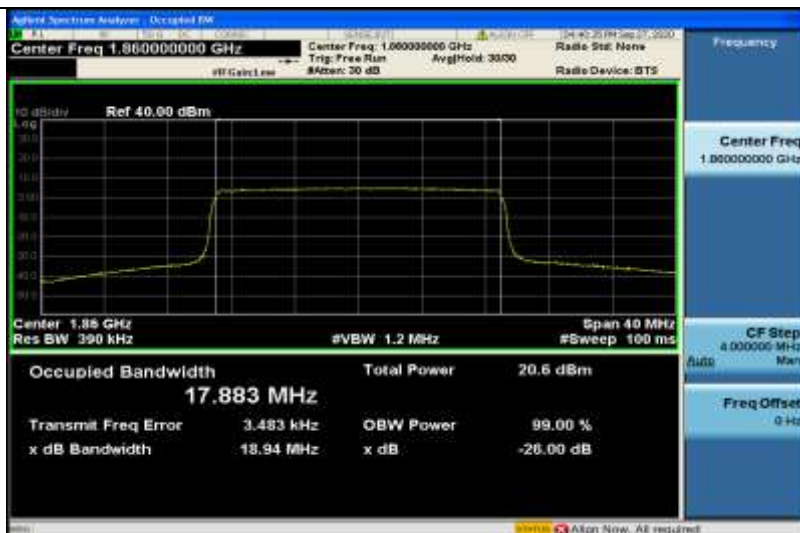
Band2-20MHz-QPSK-18900-100RB#0-17.898



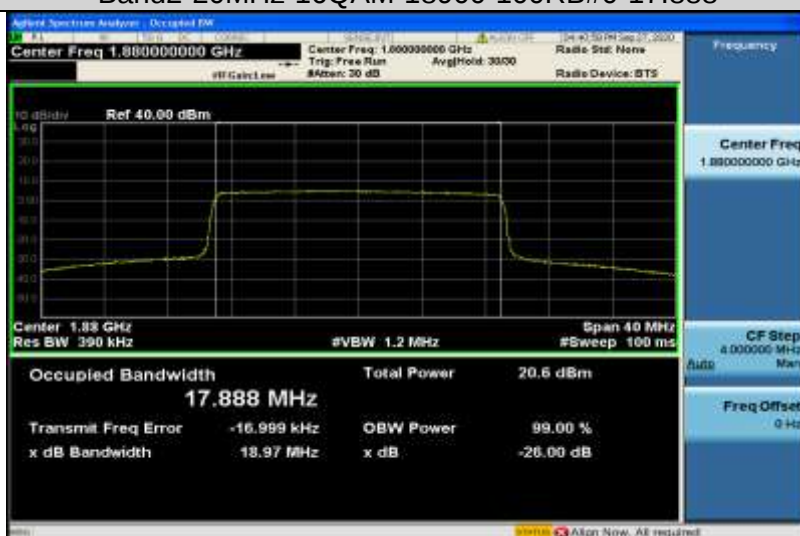
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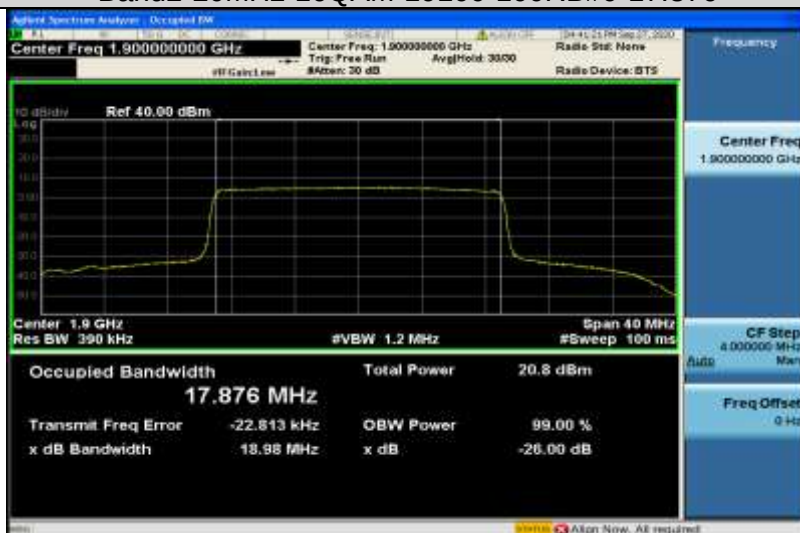
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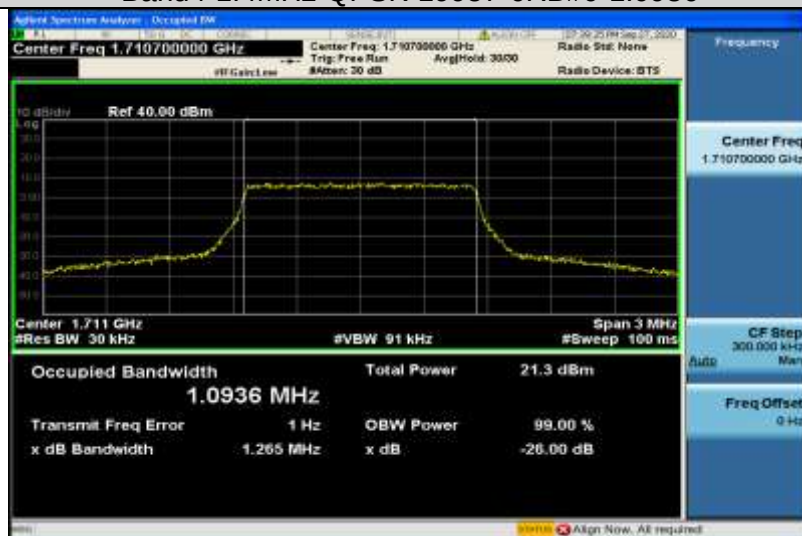
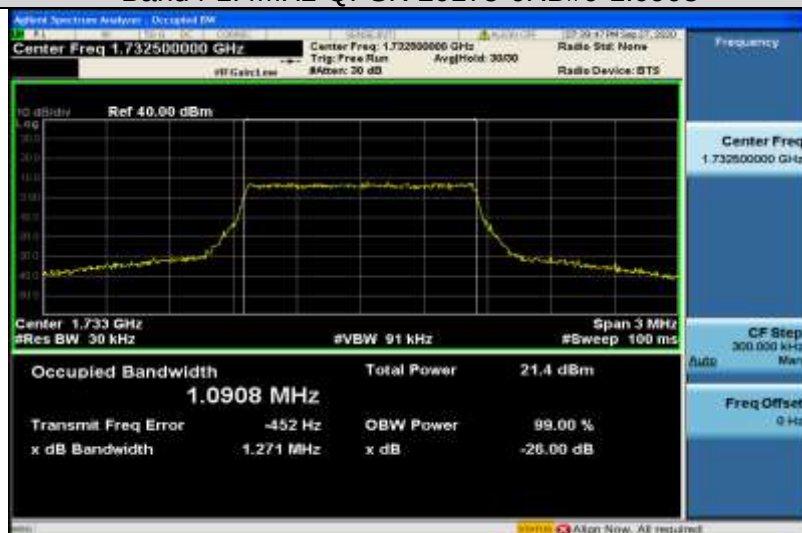


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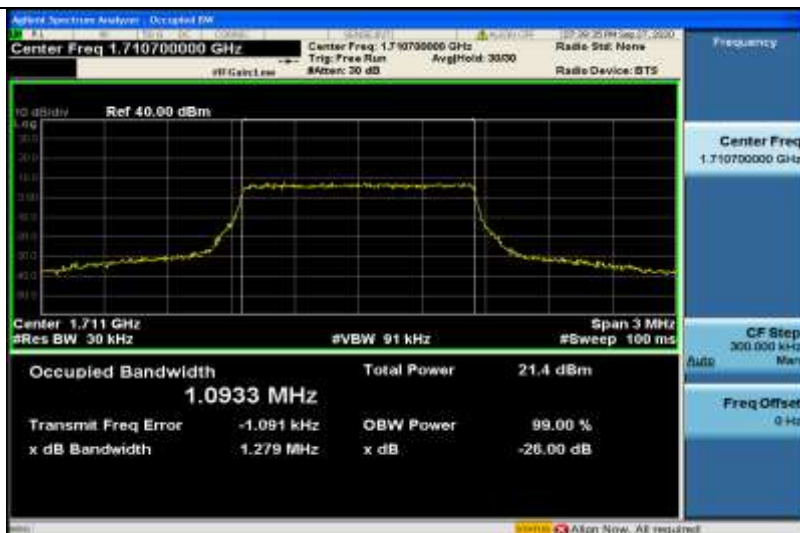


Band2-20MHz-16QAM-19100-100RB#0-17.876



LTE Band 4
Band4-1.4MHz-QPSK-19957-6RB#0-1.0936

Band4-1.4MHz-QPSK-20175-6RB#0-1.0908

Band4-1.4MHz-QPSK-20393-6RB#0-1.0897

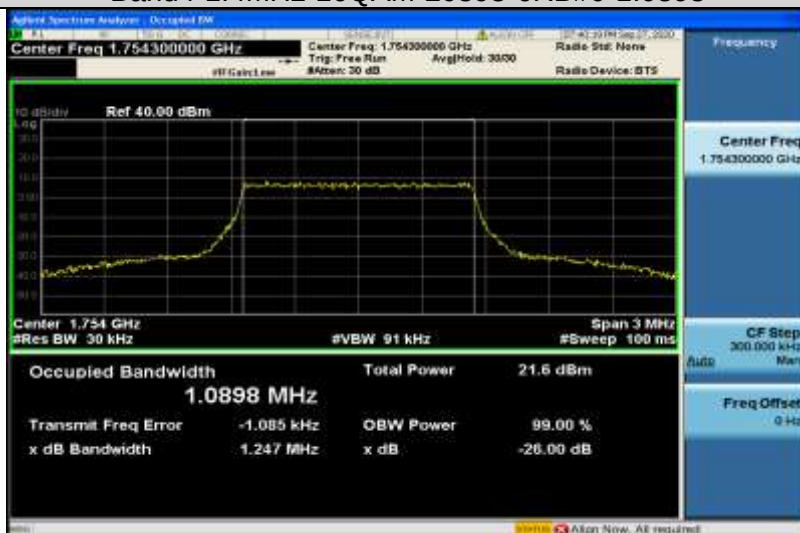
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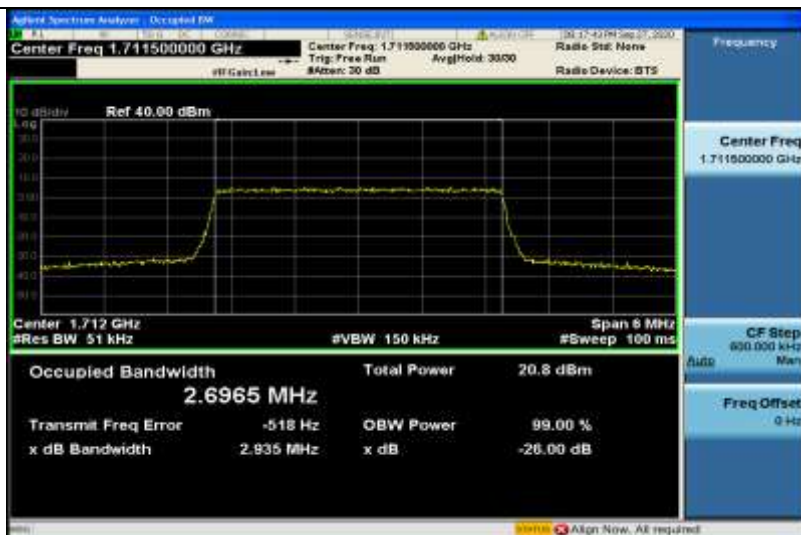
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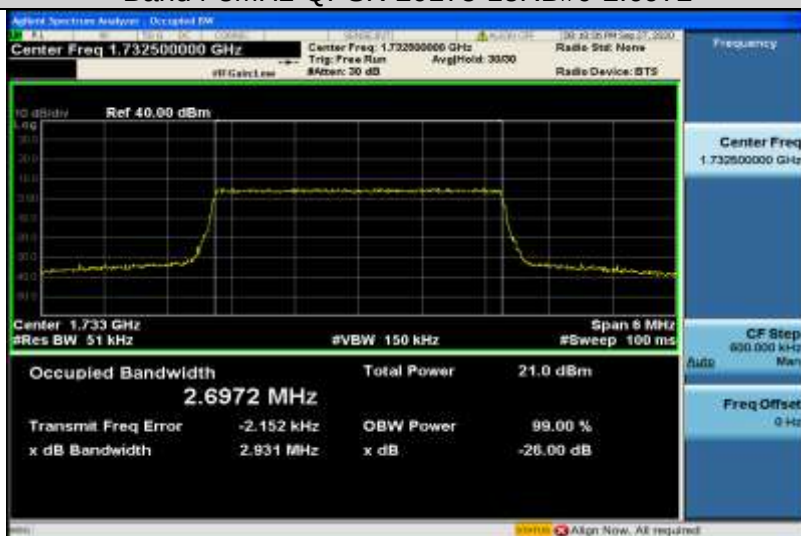
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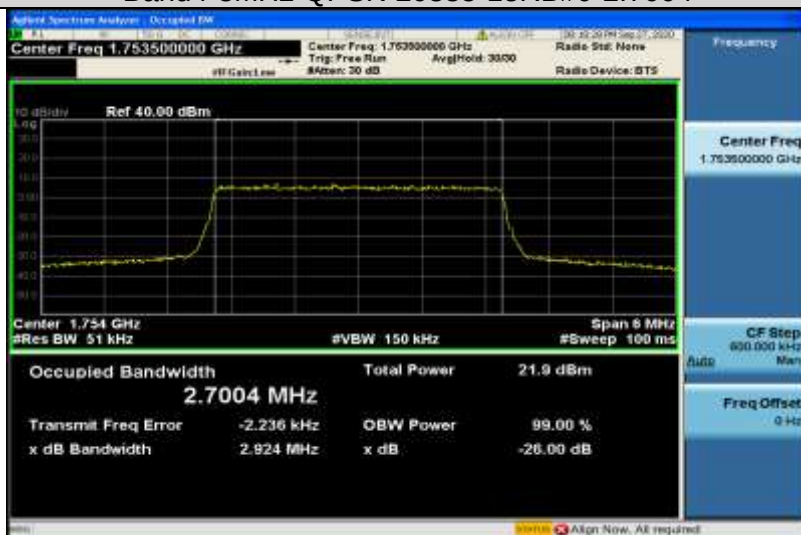
Band4-3MHz-QPSK-19965-15RB#0-2.6965



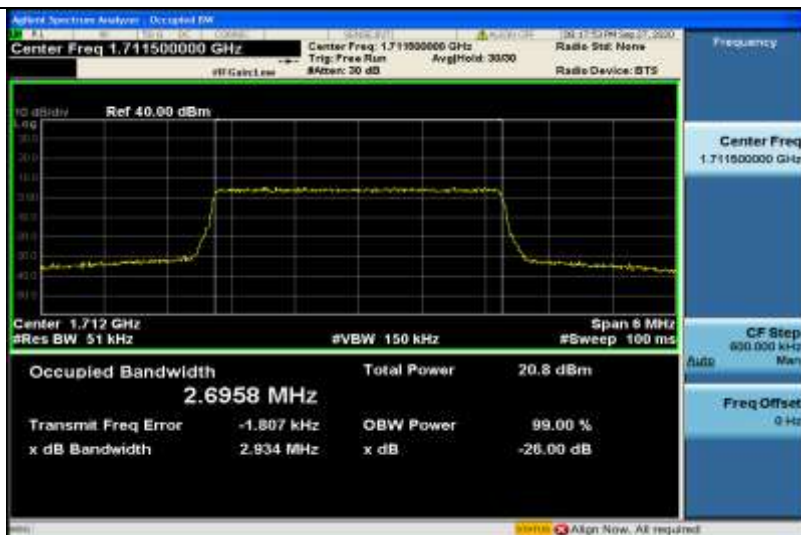
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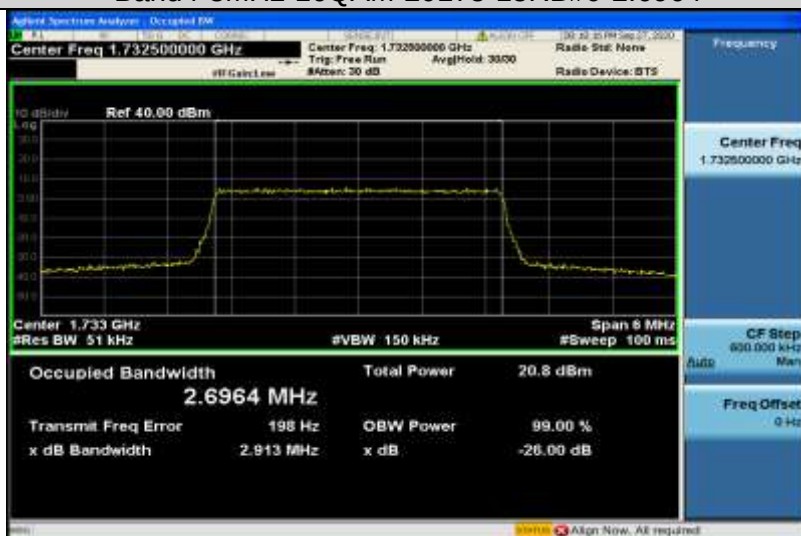
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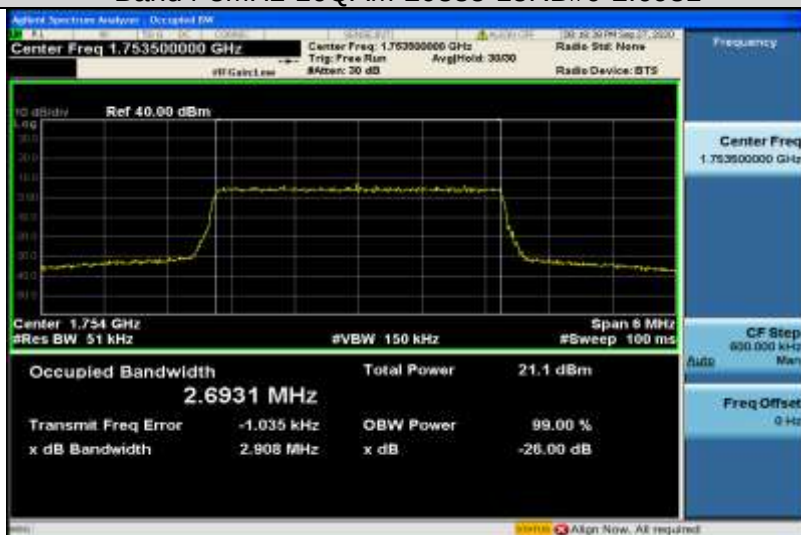
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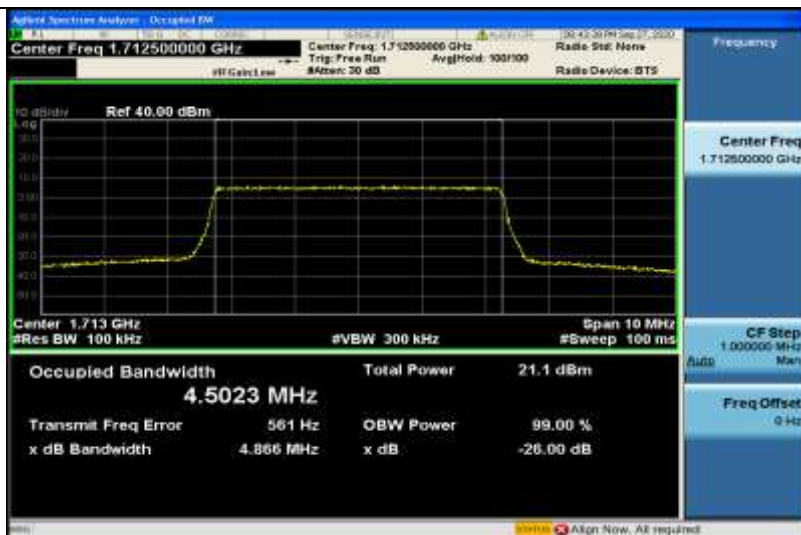
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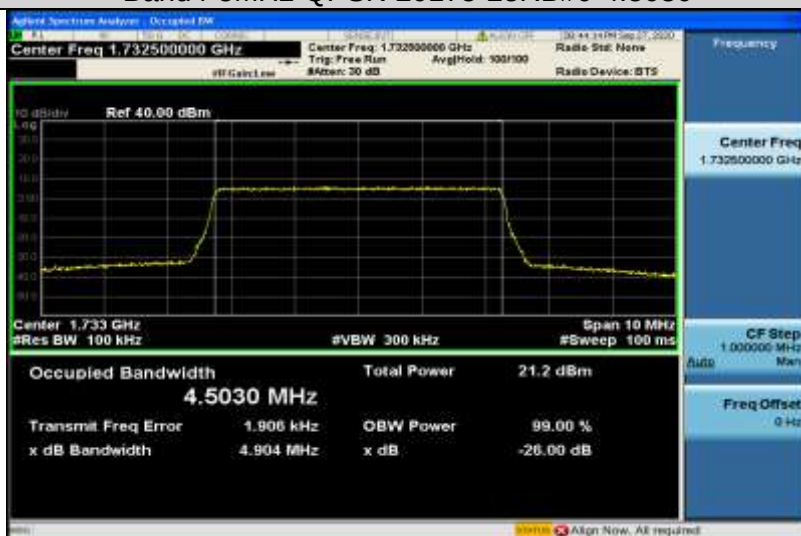
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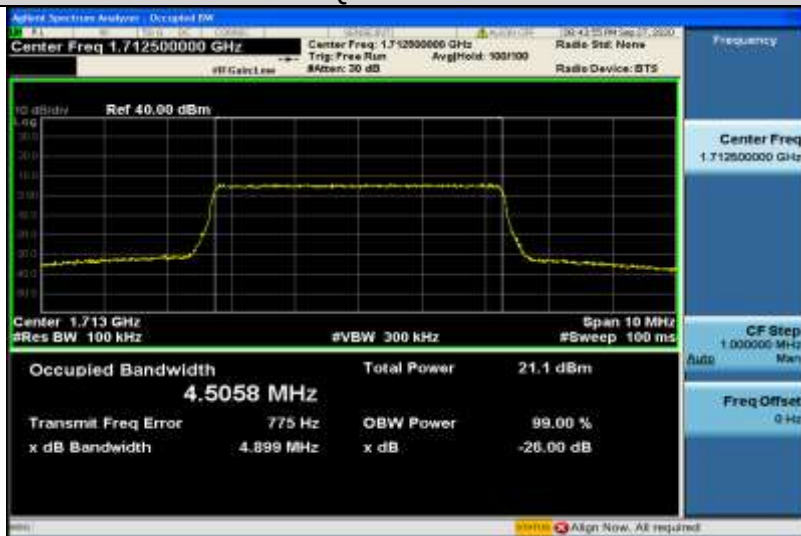
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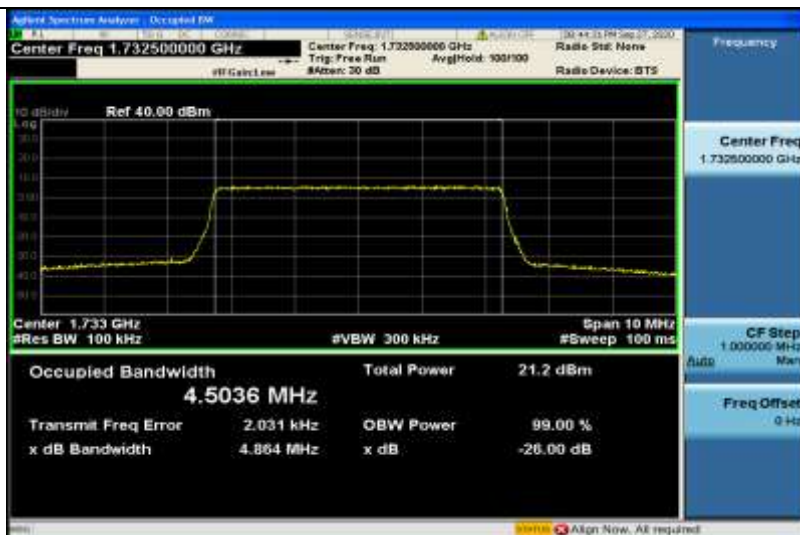
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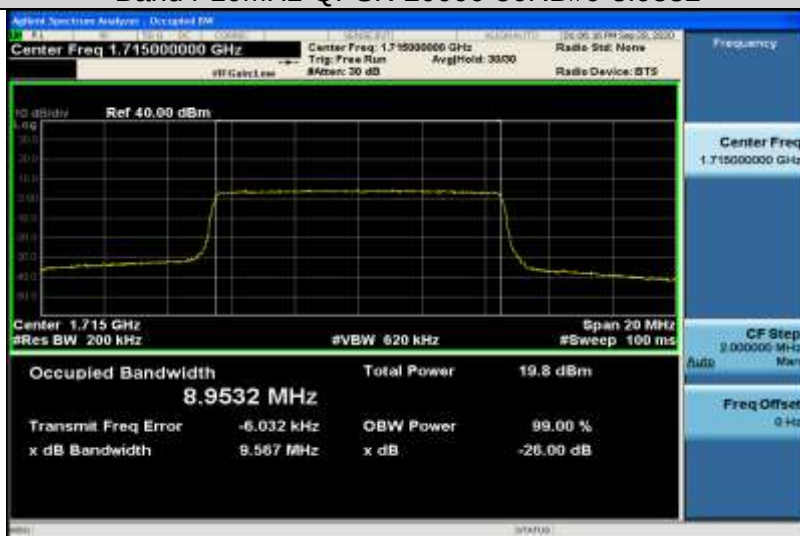
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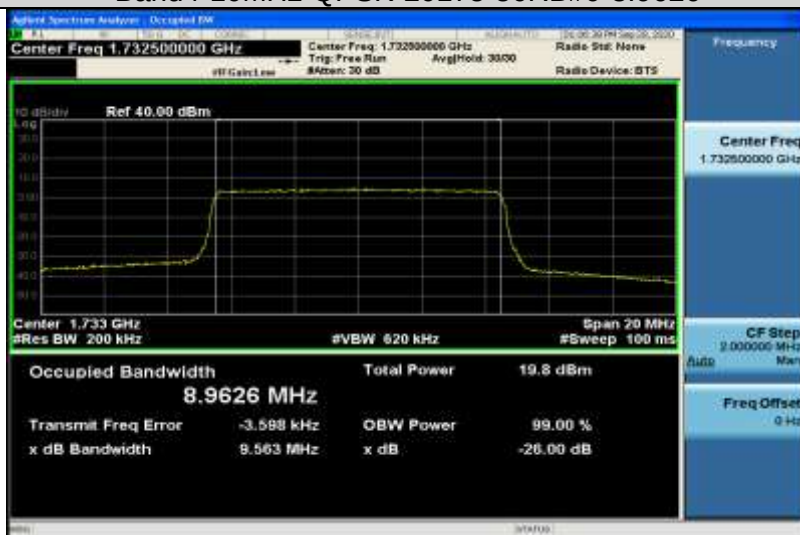
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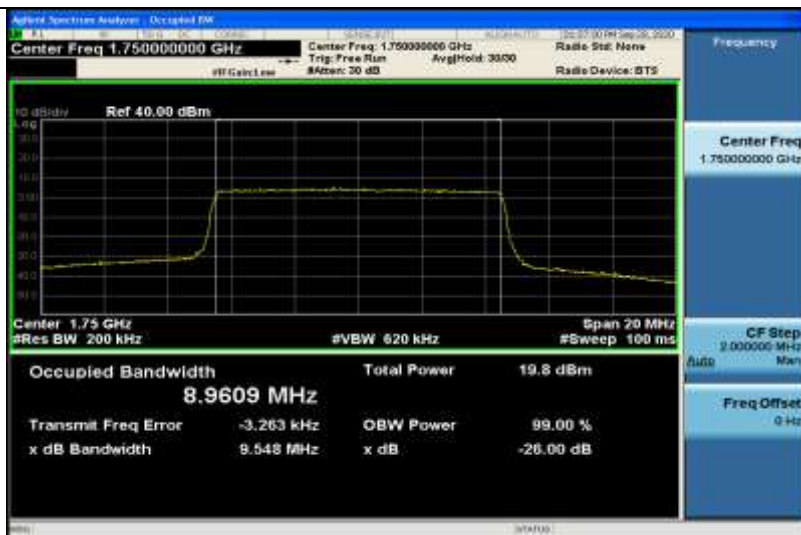
Band4-10MHz-QPSK-20000-50RB#0-8.9532



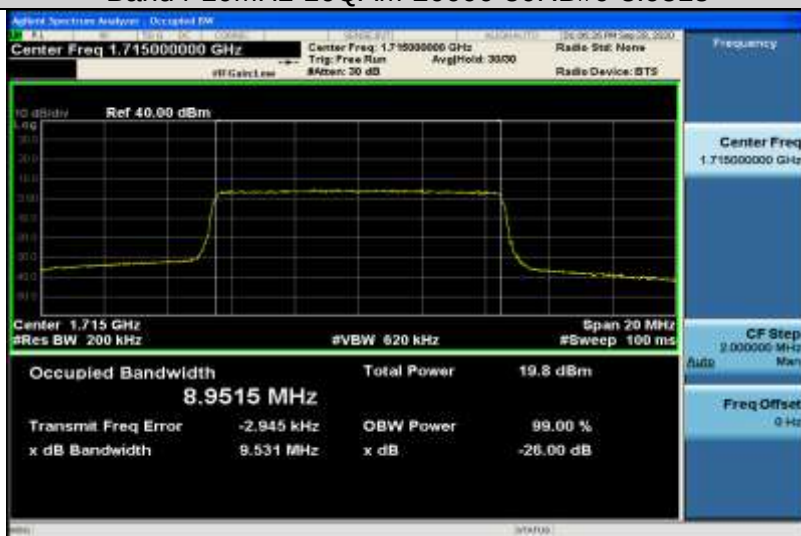
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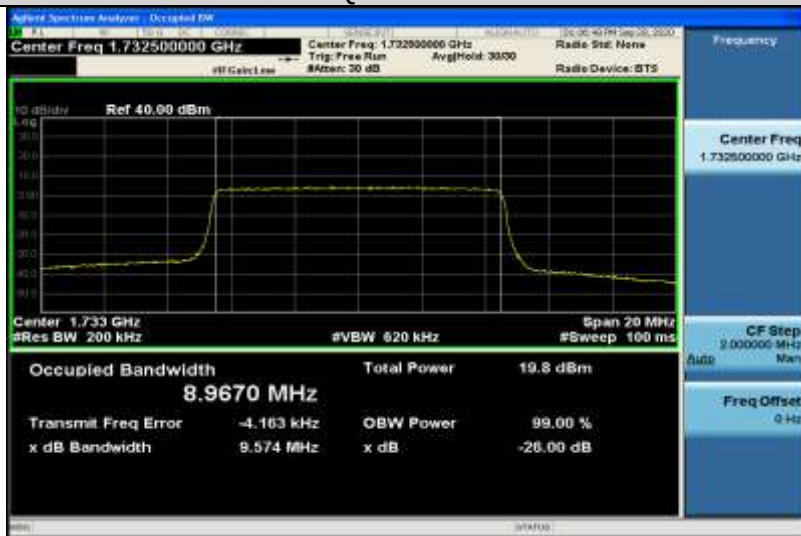
Band4-10MHz-QPSK-20350-50RB#0-8.9609



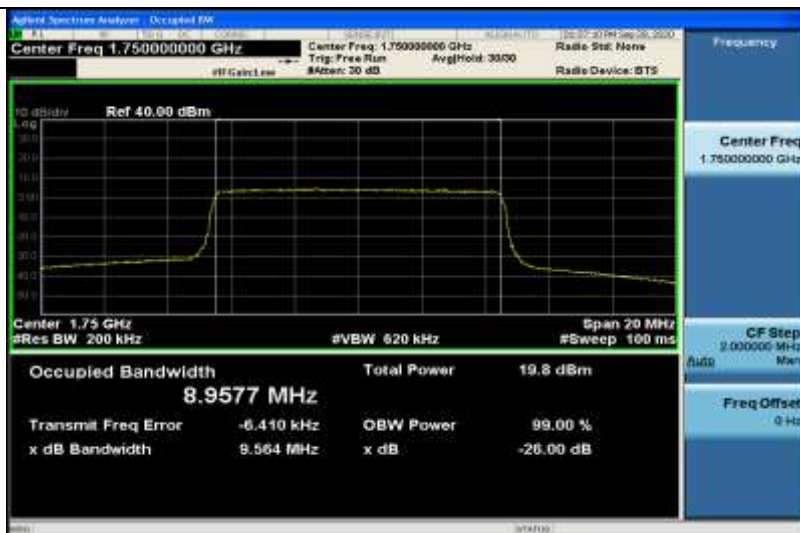
Band4-10MHz-16QAM-20000-50RB#0-8.9515



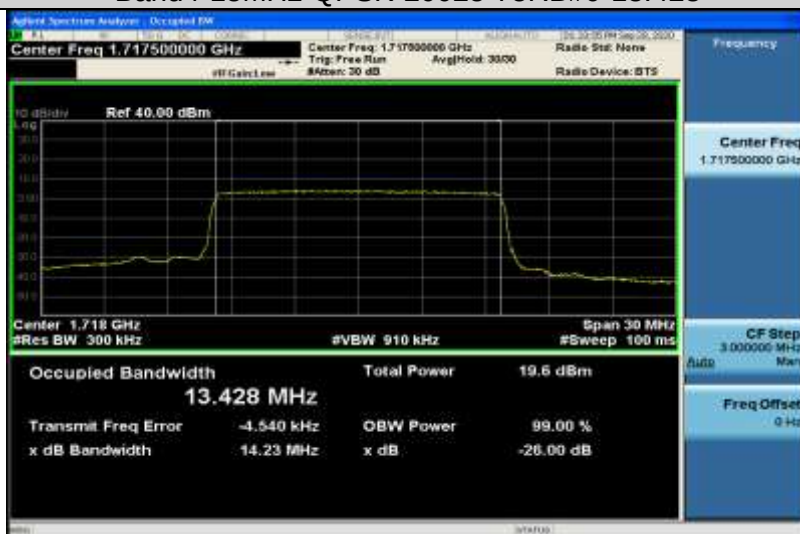
Band4-10MHz-16QAM-20175-50RB#0-8.9670



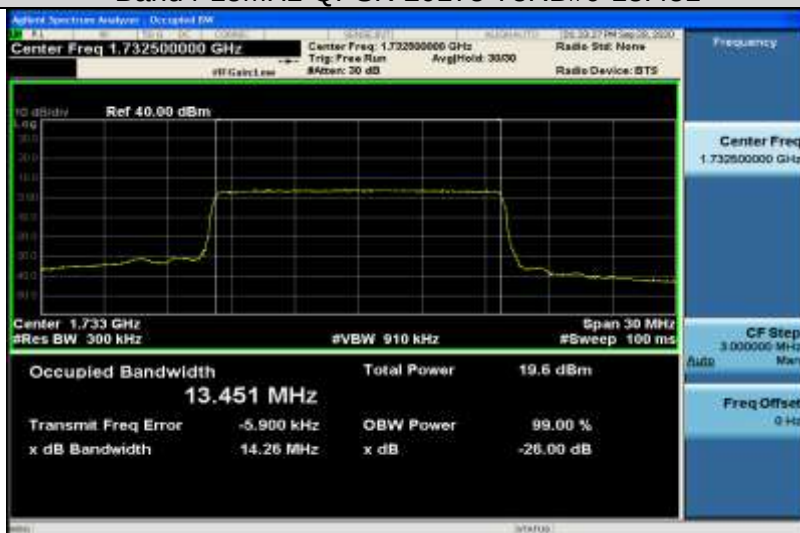
Band4-10MHz-16QAM-20350-50RB#0-8.9577



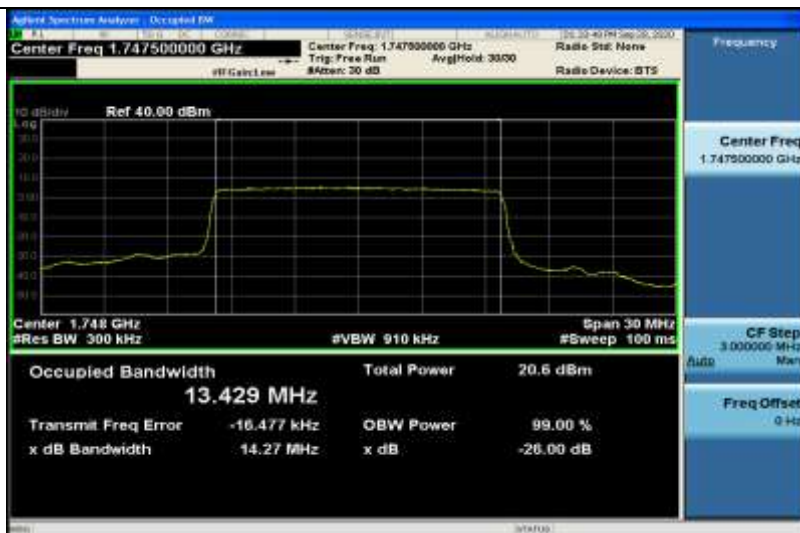
Band4-15MHz-QPSK-20025-75RB#0-13.428



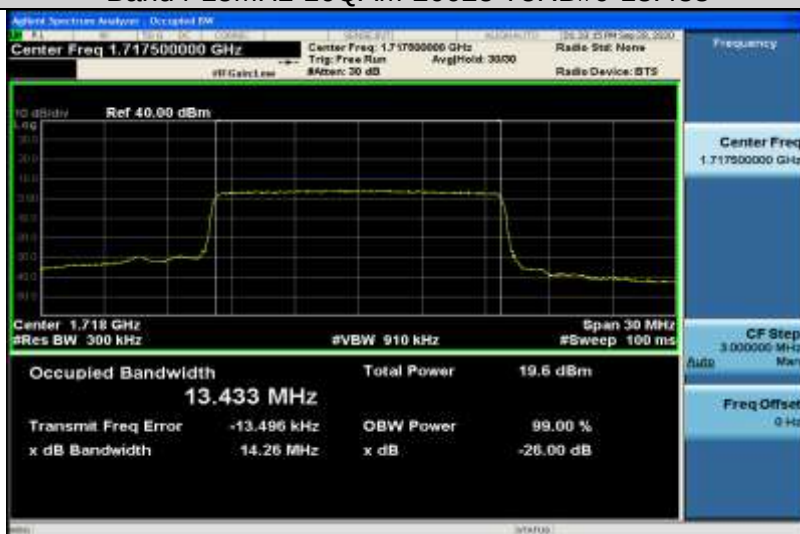
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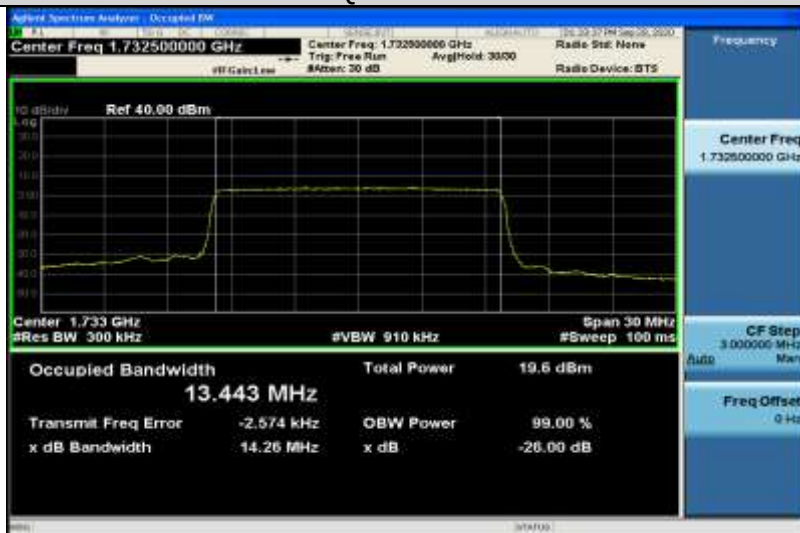
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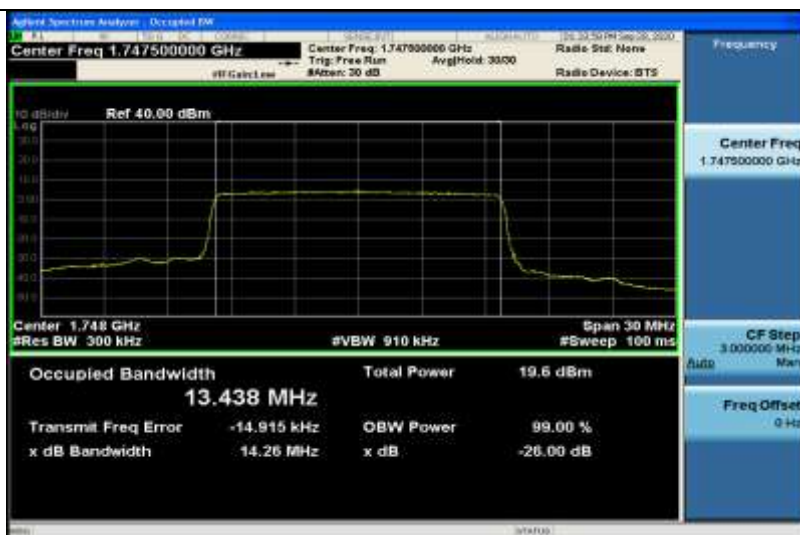
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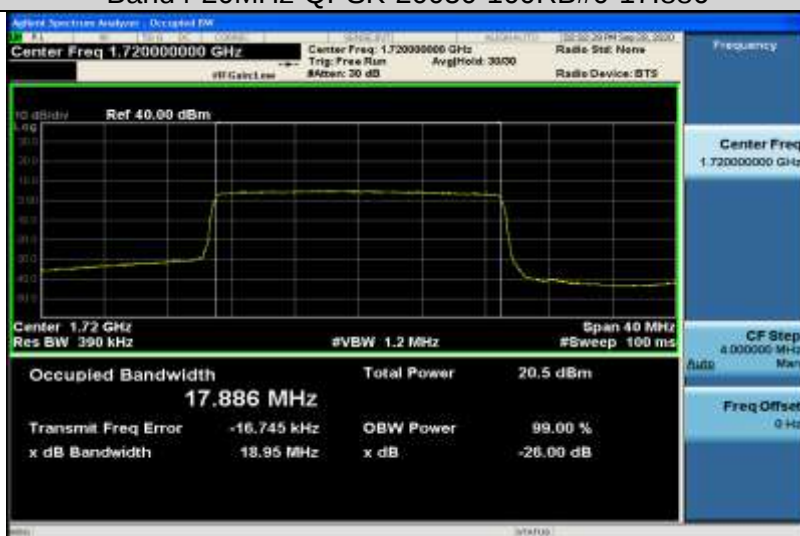
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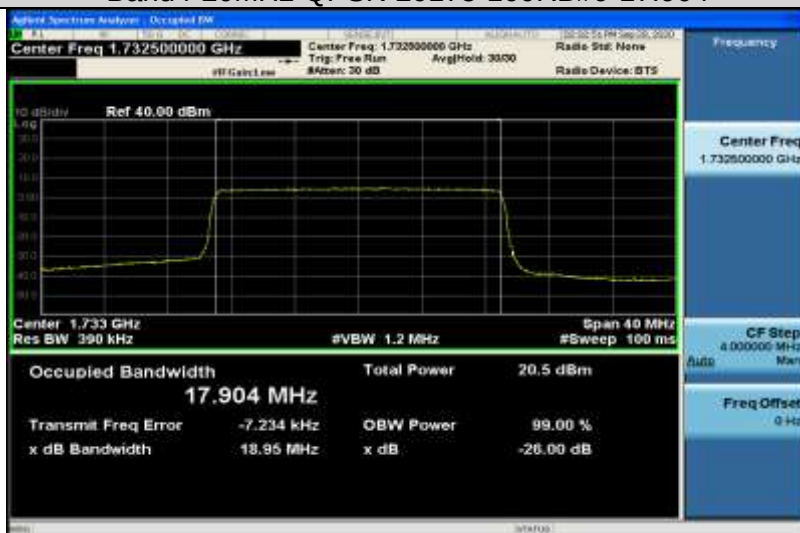
Band4-15MHz-16QAM-20325-75RB#0-13.438



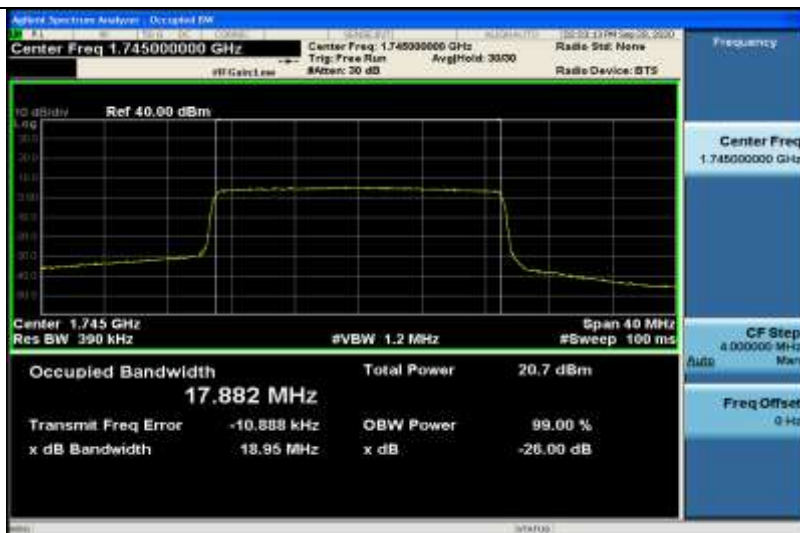
Band4-20MHz-QPSK-20050-100RB#0-17.886



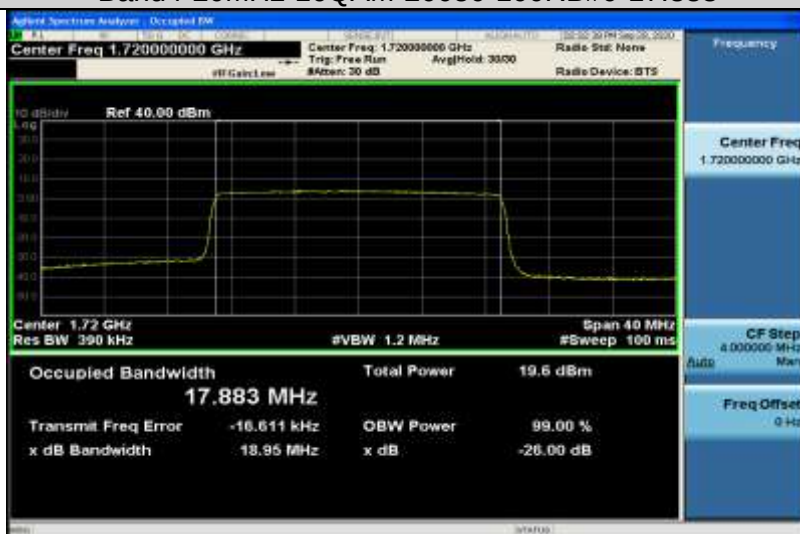
Band4-20MHz-QPSK-20175-100RB#0-17.904



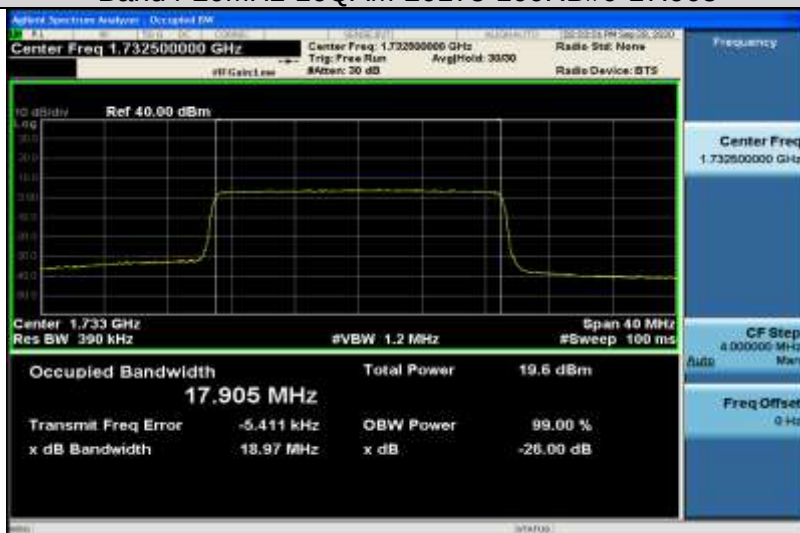
Band4-20MHz-QPSK-20300-100RB#0-17.882



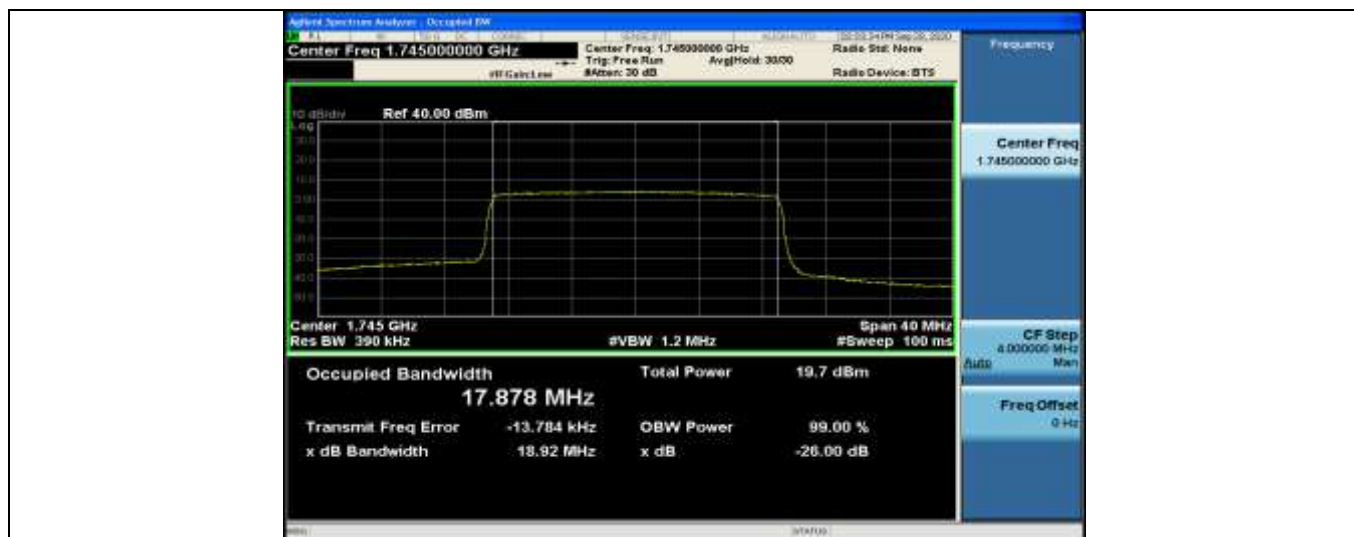
Band4-20MHz-16QAM-20050-100RB#0-17.883



Band4-20MHz-16QAM-20175-100RB#0-17.905



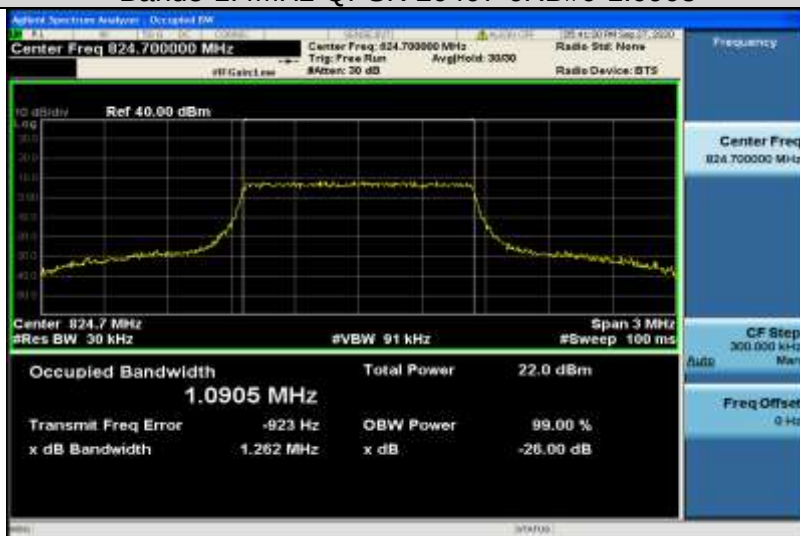
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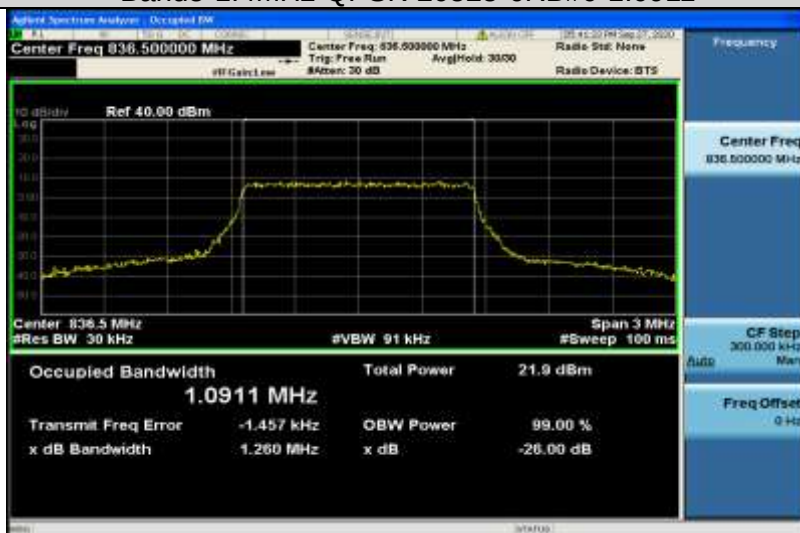


LTE Band 5

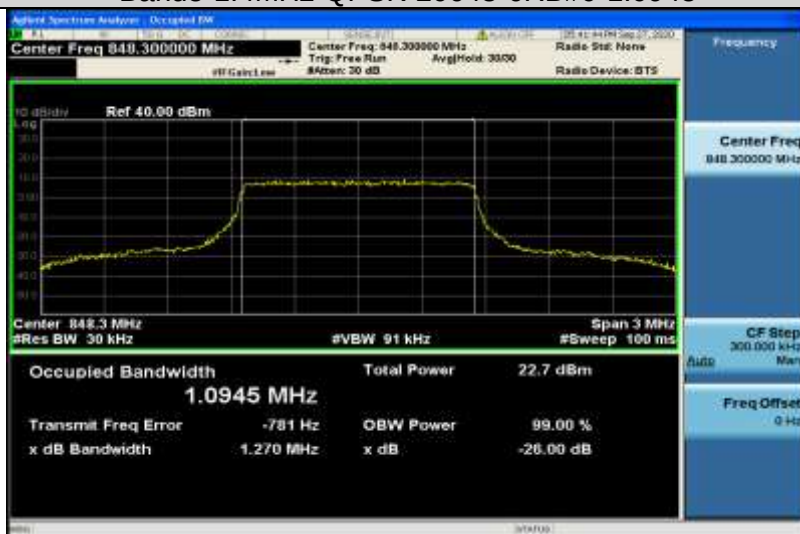
Band5-1.4MHz-QPSK-20407-6RB#0-1.0905



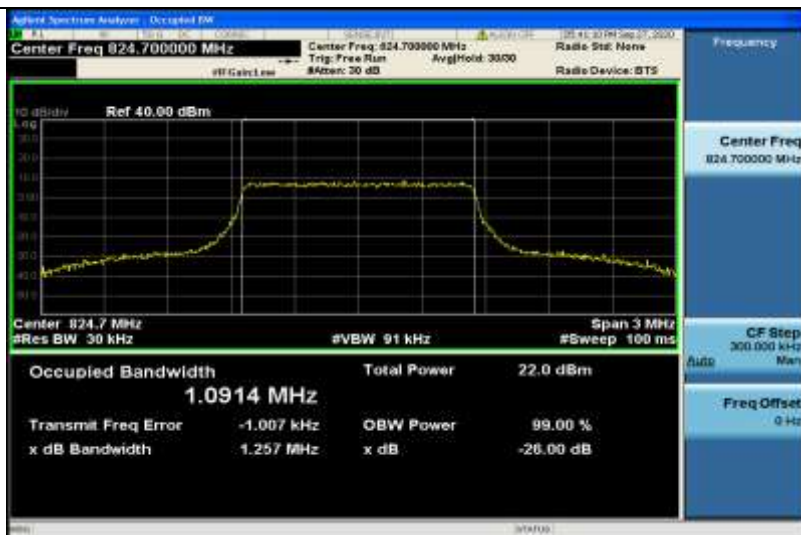
Band5-1.4MHz-QPSK-20525-6RB#0-1.0911



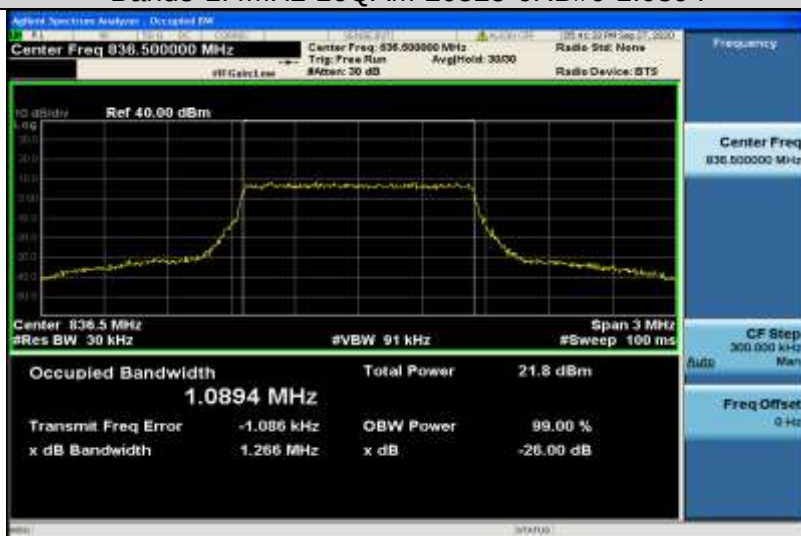
Band5-1.4MHz-QPSK-20643-6RB#0-1.0945



Band5-1.4MHz-16QAM-20407-6RB#0-1.0914



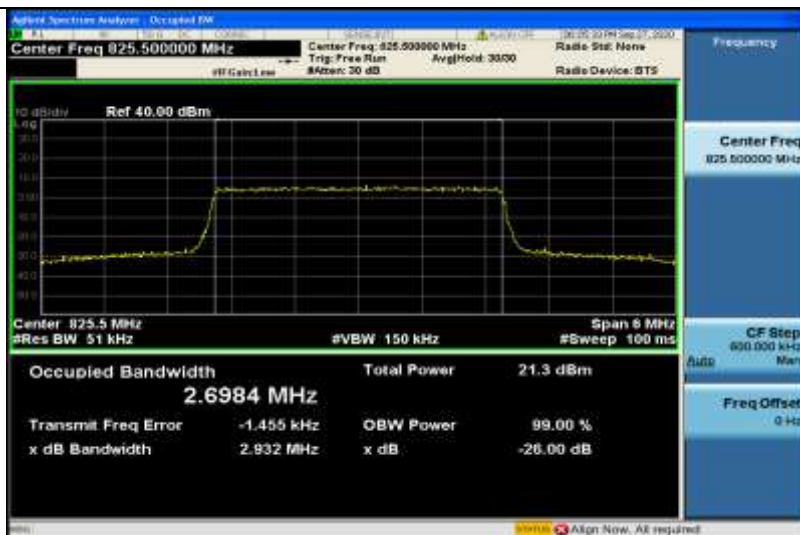
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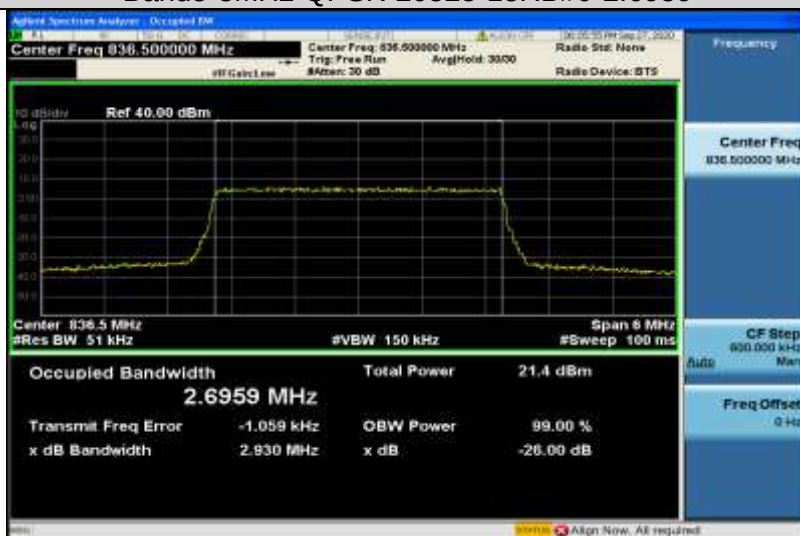
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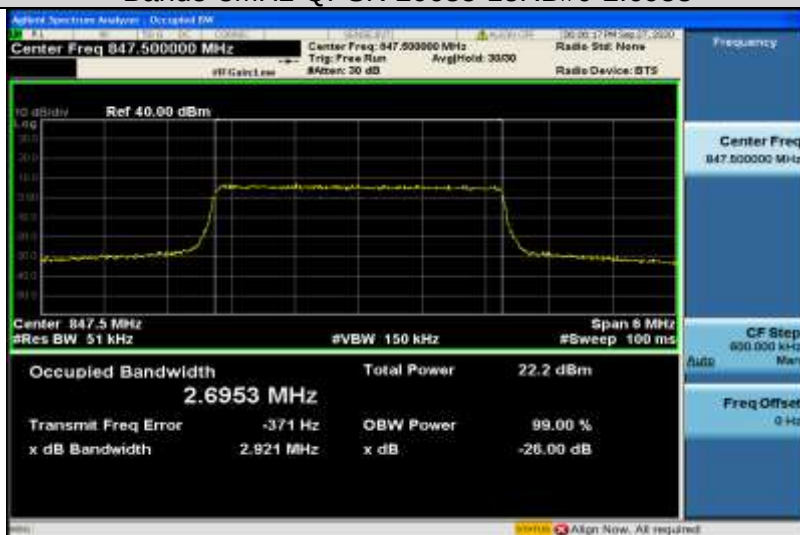
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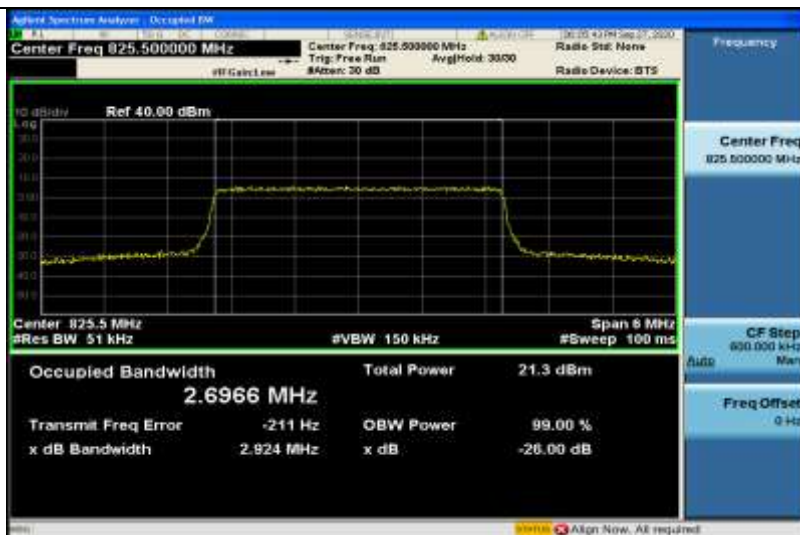
Band5-3MHz-QPSK-20525-15RB#0-2.6959



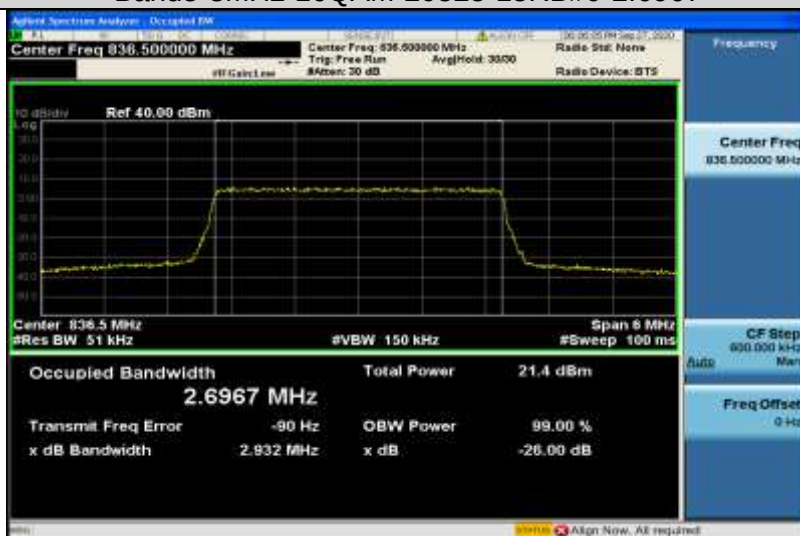
Band5-3MHz-QPSK-20635-15RB#0-2.6953



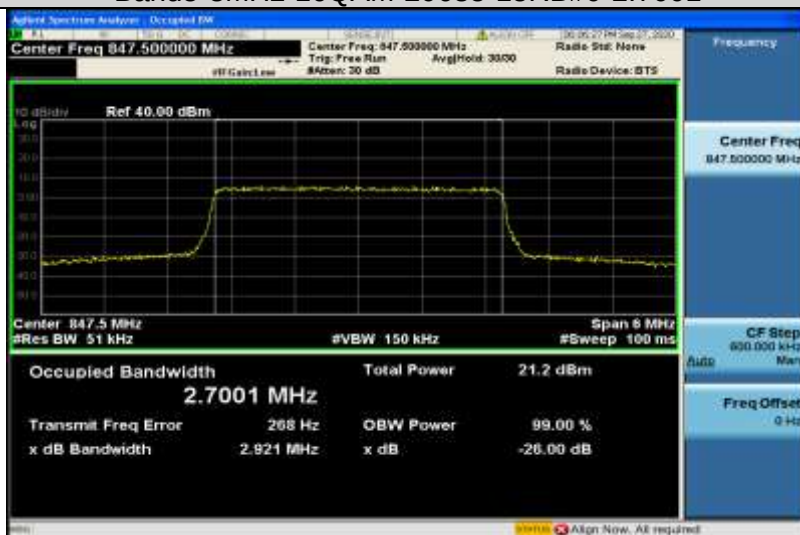
Band5-3MHz-16QAM-20415-15RB#0-2.6966



Band5-3MHz-16QAM-20525-15RB#0-2.6967



Band5-3MHz-16QAM-20635-15RB#0-2.7001



Band5-5MHz-QPSK-20425-25RB#0-4.5027



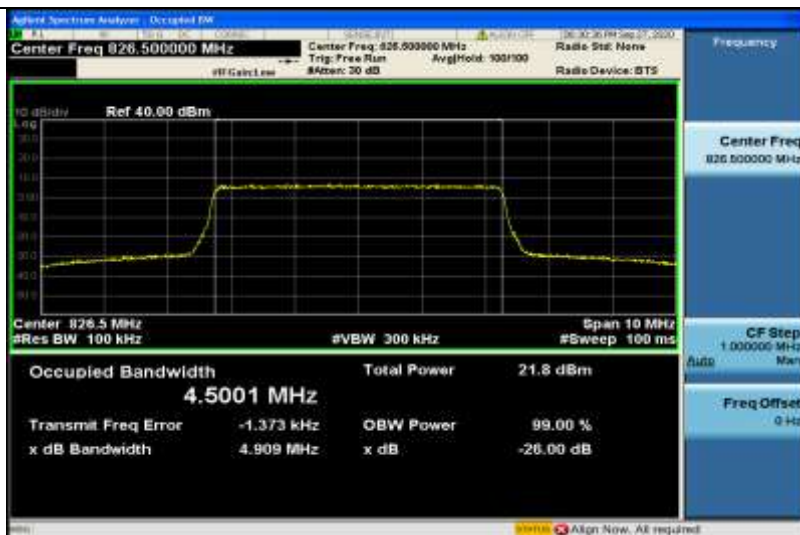
Band5-5MHz-QPSK-20525-25RB#0-4.4985



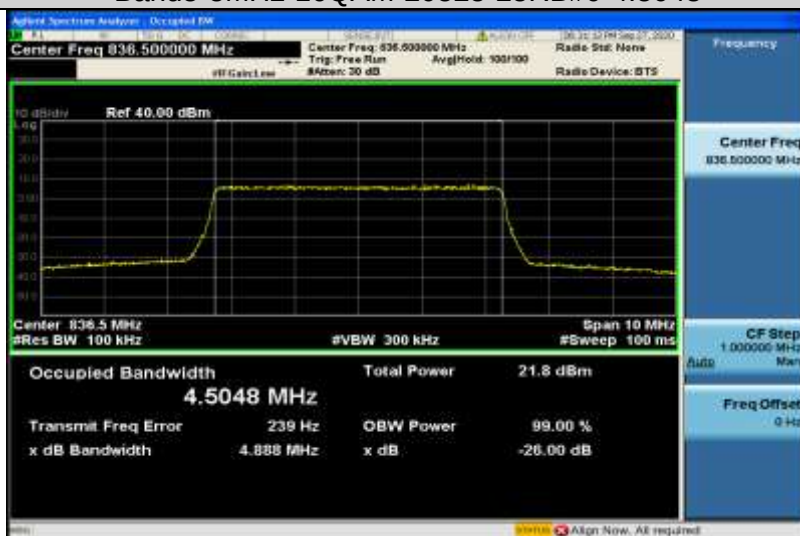
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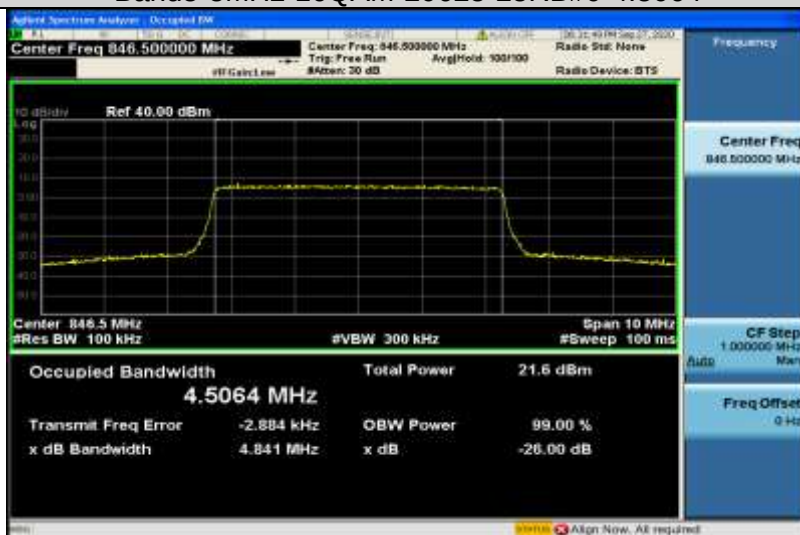
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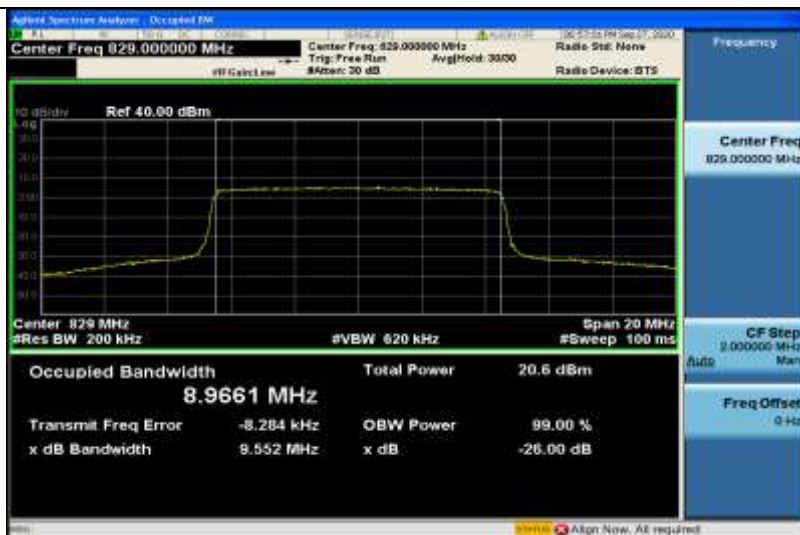
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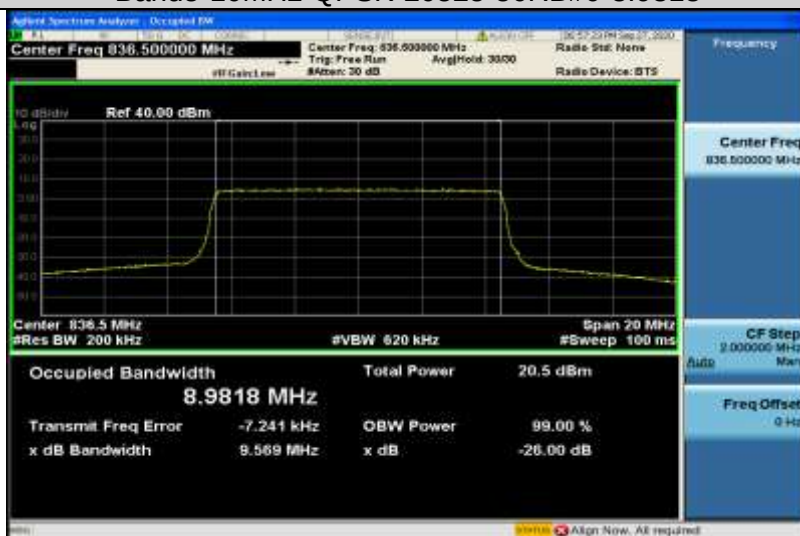
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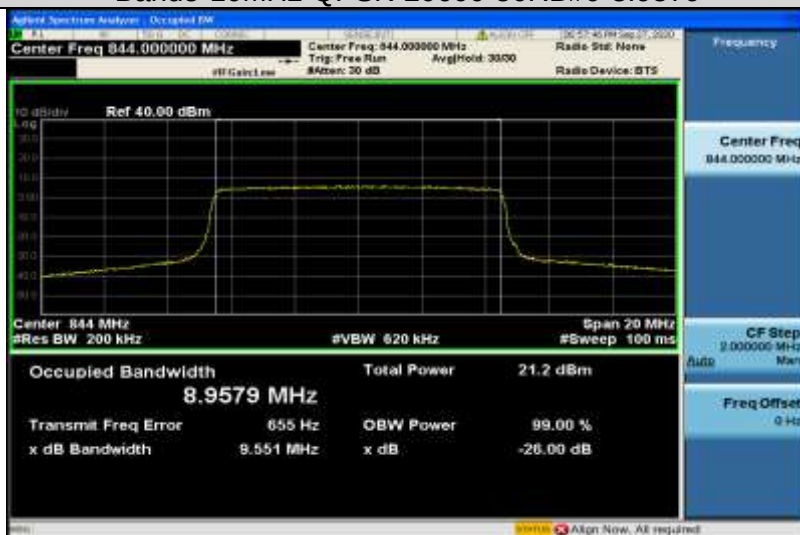
Band5-10MHz-QPSK-20450-50RB#0-8.9661



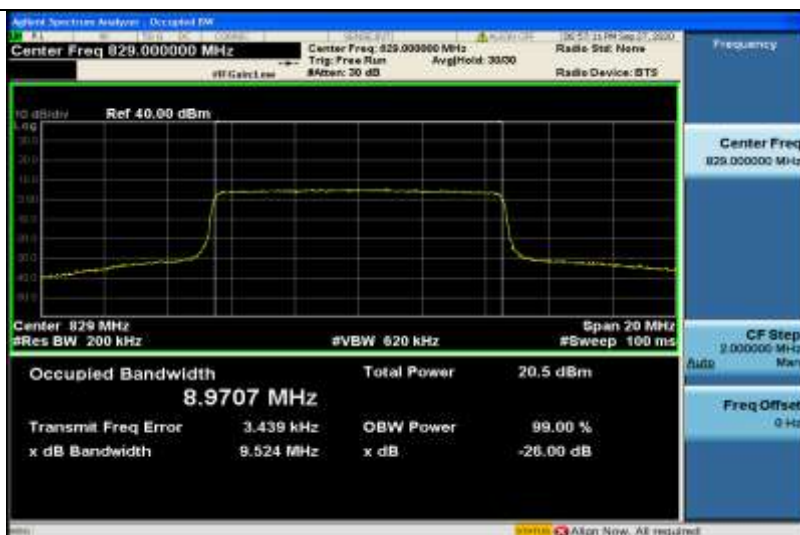
Band5-10MHz-QPSK-20525-50RB#0-8.9818



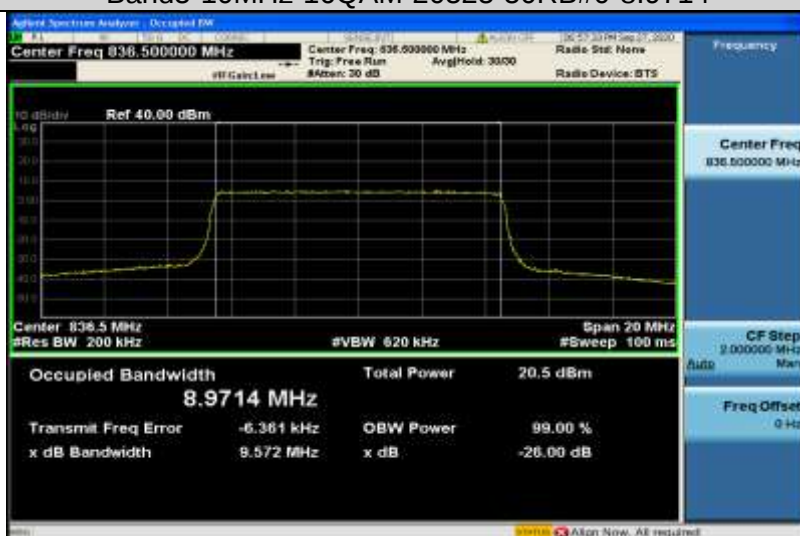
Band5-10MHz-QPSK-20600-50RB#0-8.9579



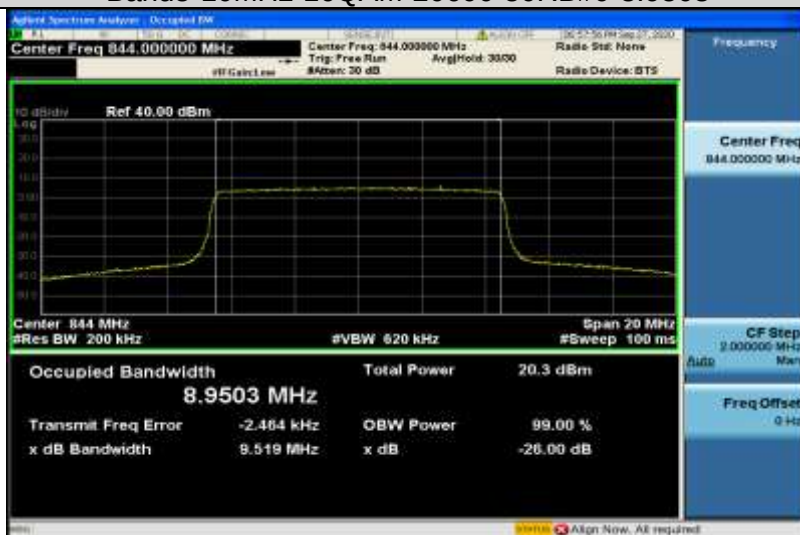
Band5-10MHz-16QAM-20450-50RB#0-8.9707

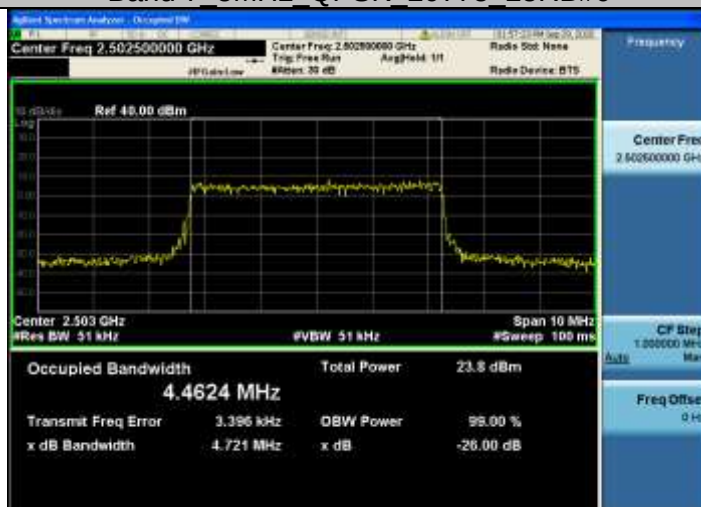
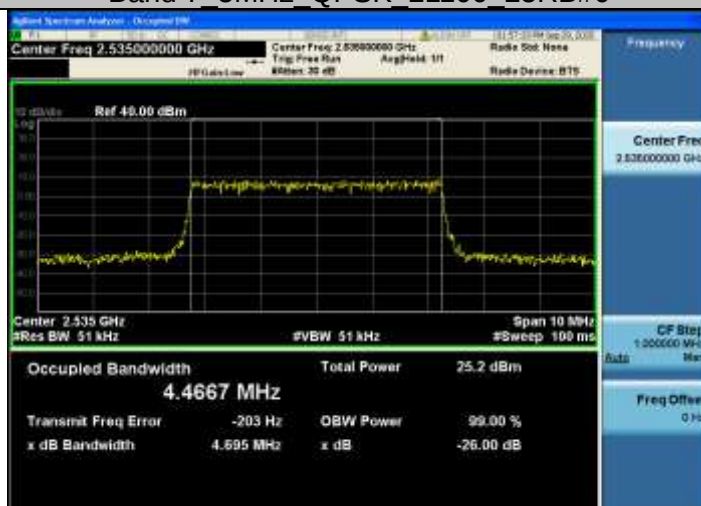


Band5-10MHz-16QAM-20525-50RB#0-8.9714



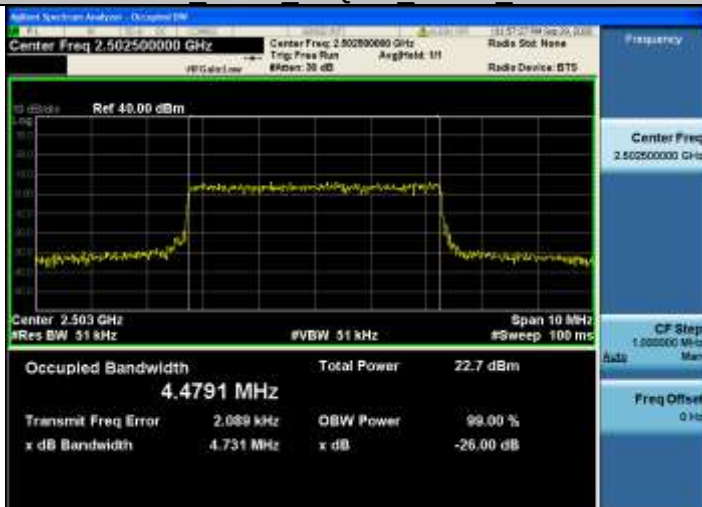
Band5-10MHz-16QAM-20600-50RB#0-8.9503



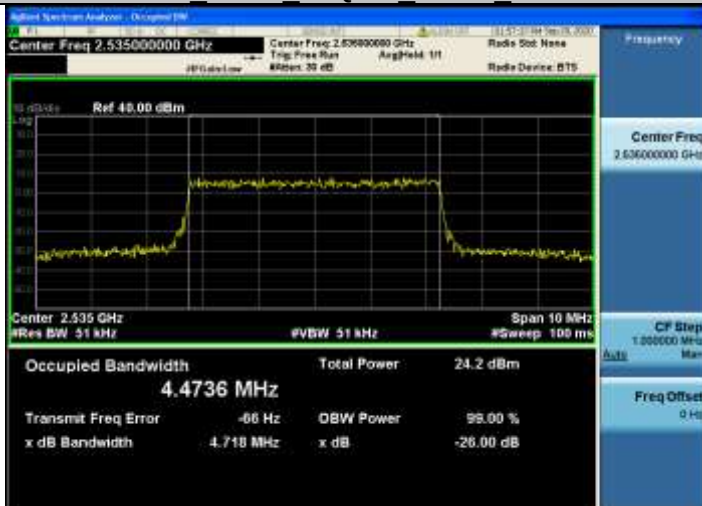
LTE Band 7
Band 7 5MHz QPSK 20775 25RB#0

Band 7 5MHz QPSK 21100 25RB#0

7 5MHz QPSK 21425 25RB#0




Band 7 5MHz 16QAM 20775 25RB#0



Band 7 5MHz 16QAM 21100 25RB#0

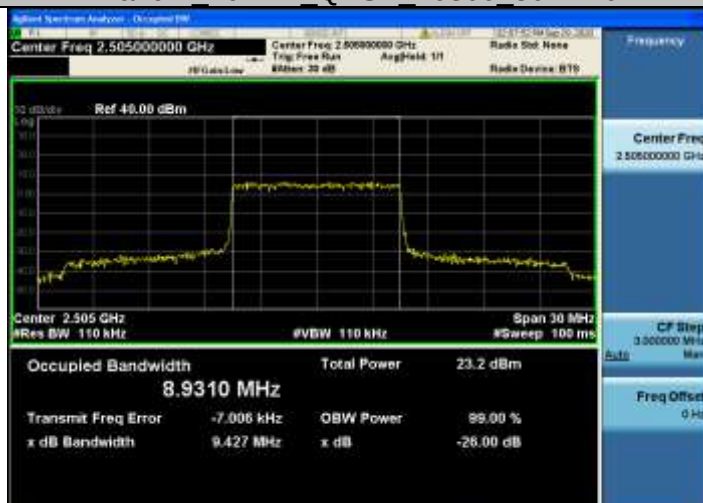


Band 7 5MHz 16QAM 21425 25RB#0

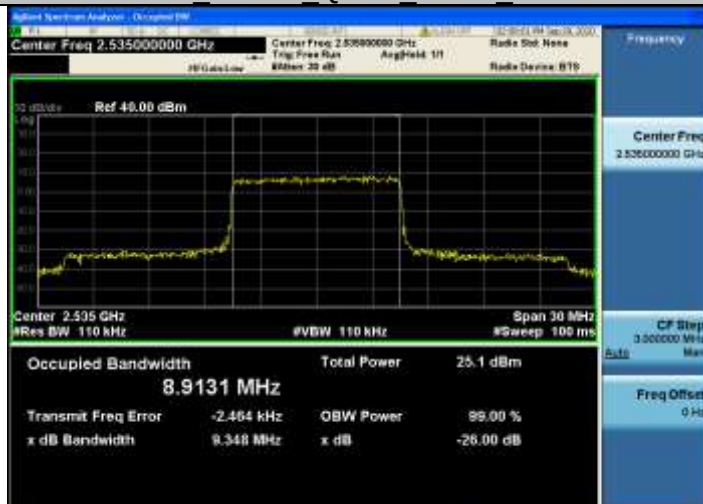




Band 7 10MHz QPSK 20800 50RB#0



Band 7 10MHz QPSK 21100 50RB#0

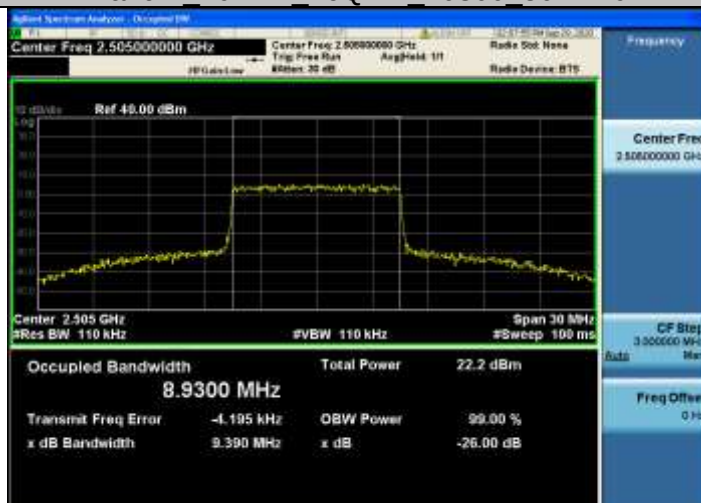


Band 7 10MHz QPSK 21400 50RB#0

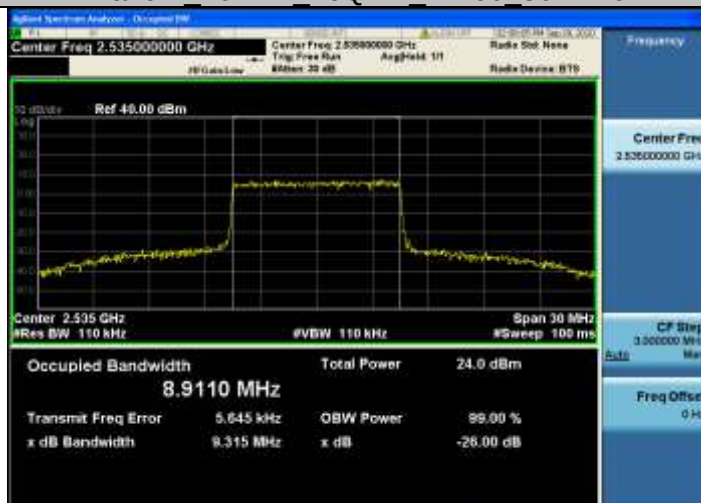




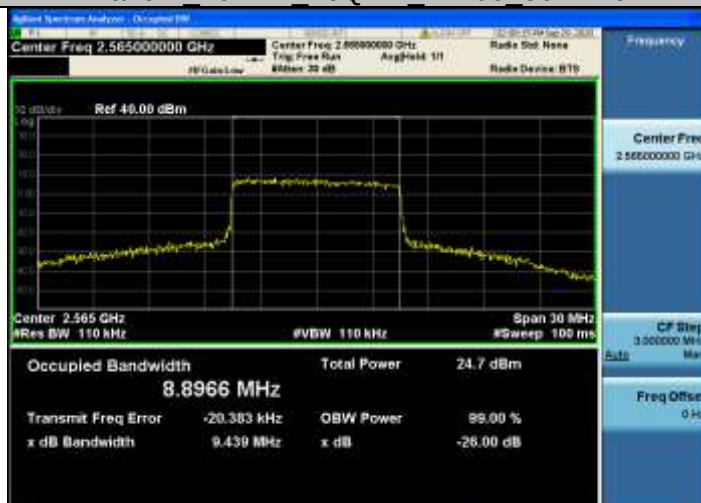
Band 7 10MHz 16QAM 20800 50RB#0



Band 7 10MHz 16QAM 21100 50RB#0

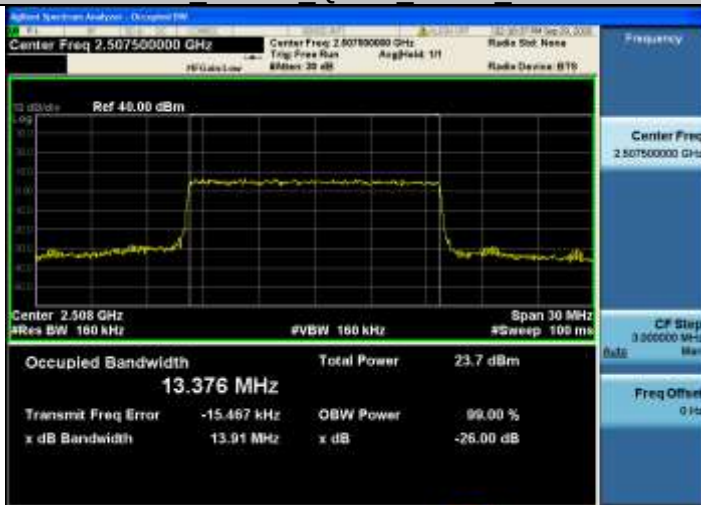


Band 7 10MHz 16QAM 21400 50RB#0

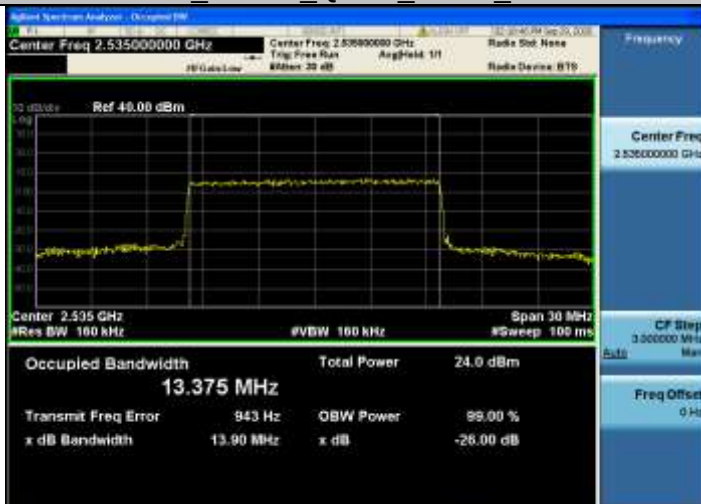




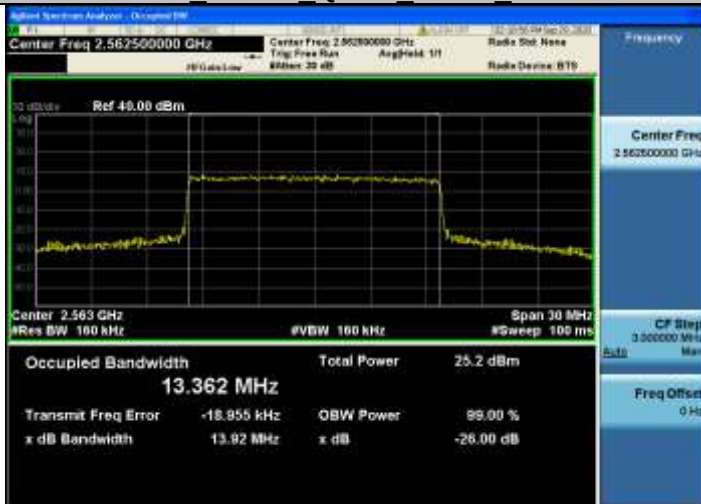
Band 7 15MHz QPSK 20825 75RB#0



Band 7 15MHz QPSK 21100 75RB#0



Band 7 15MHz QPSK 21375 75RB#0

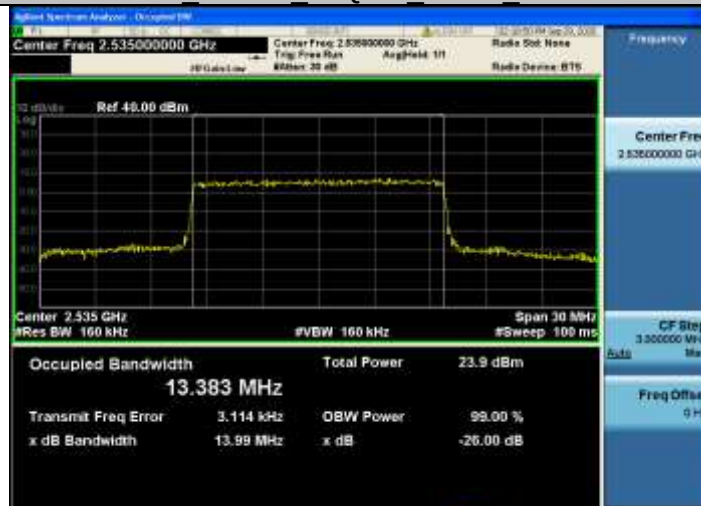




Band 7 15MHz 16QAM 20825 75RB#0



Band 7 15MHz 16QAM 21100 75RB#0



Band 7 15MHz 16QAM 21375 75RB#0

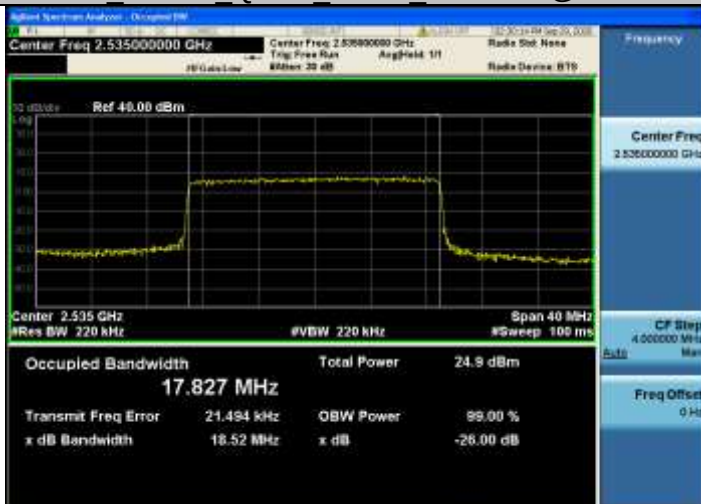




Band 7 20MHz QPSK 20850 100RB#0@100RB#0



Band 7 20MHz QPSK 21100 100RB#0@100RB#0



Band 7 20MHz QPSK 21350 100RB#0@100RB#0





Band 7 20MHz 16QAM 20850 100RB#0@100RB#0



Band 7 20MHz 16QAM 21100 100RB#0@100RB#0



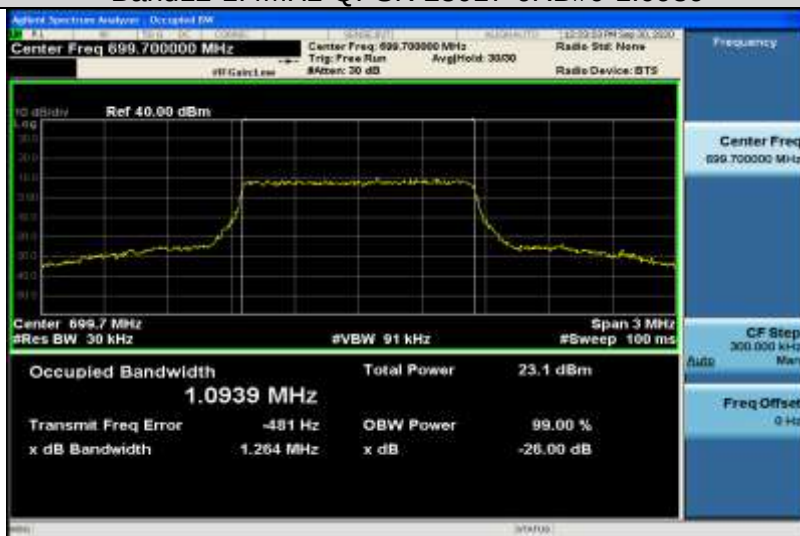
Band 7 20MHz 16QAM 21350 100RB#0@100RB#0





LTE Band 12

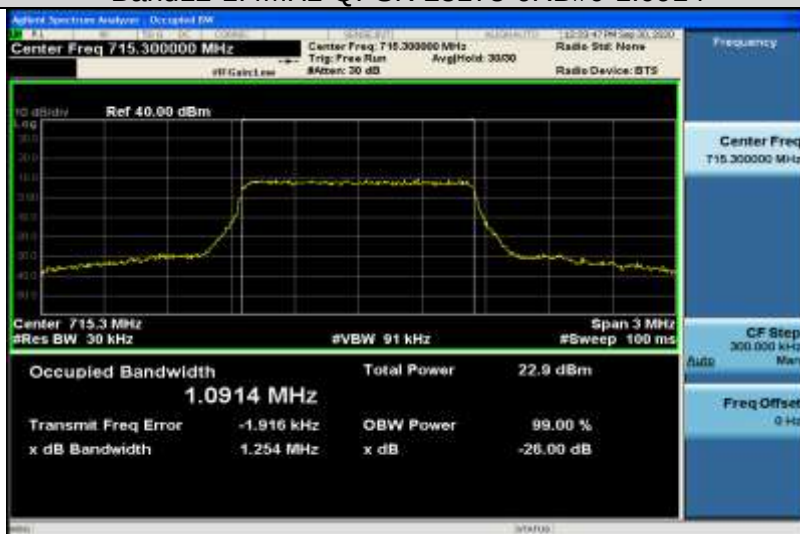
Band12-1.4MHz-QPSK-23017-6RB#0-1.0939



Band12-1.4MHz-QPSK-23095-6RB#0-1.0906



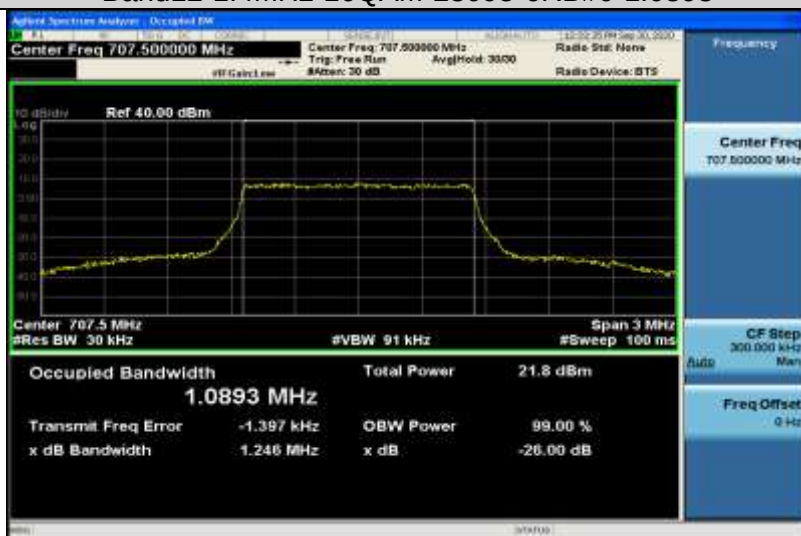
Band12-1.4MHz-QPSK-23173-6RB#0-1.0914



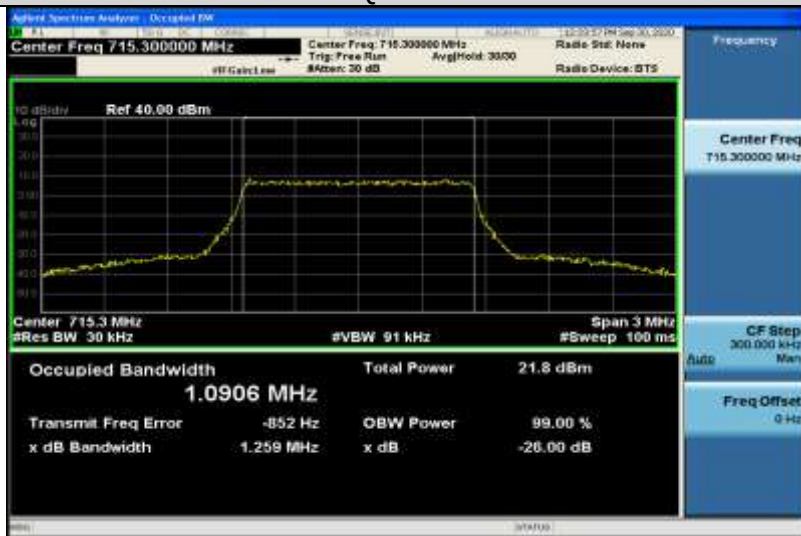
Band12-1.4MHz-16QAM-23017-6RB#0-1.0925



Band12-1.4MHz-16QAM-23095-6RB#0-1.0893



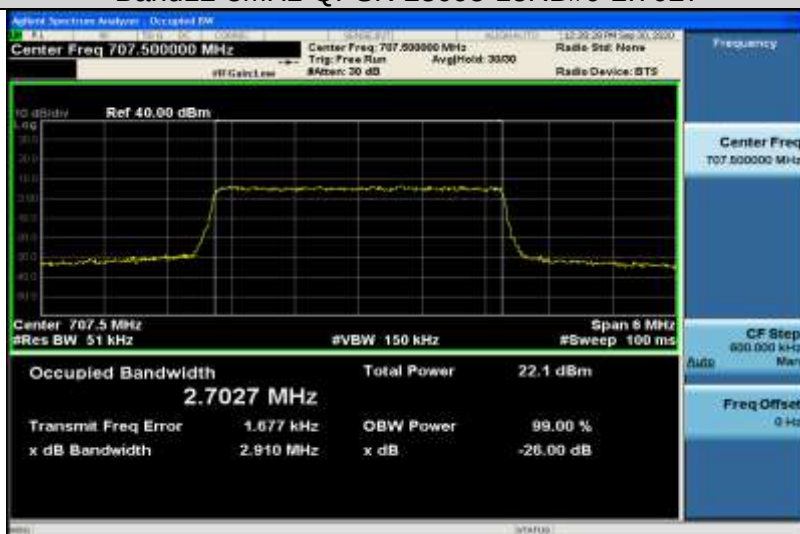
Band12-1.4MHz-16QAM-23173-6RB#0-1.0906



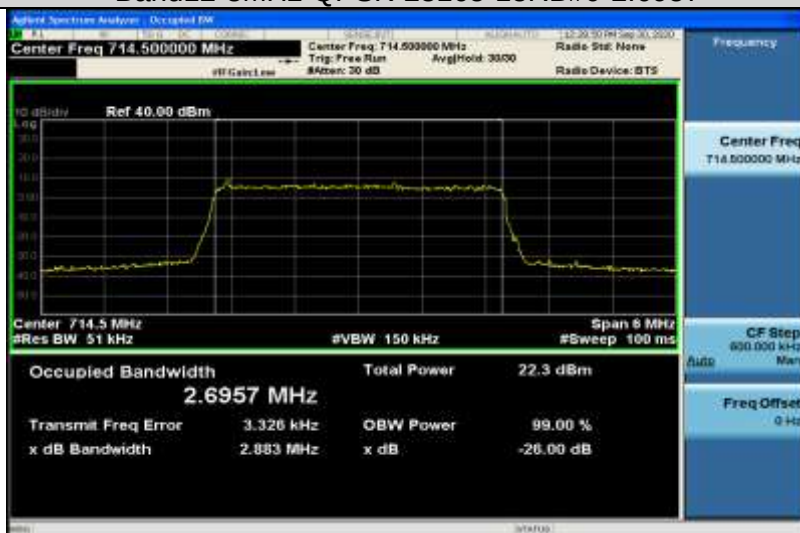
Band12-3MHz-QPSK-23025-15RB#0-2.6963



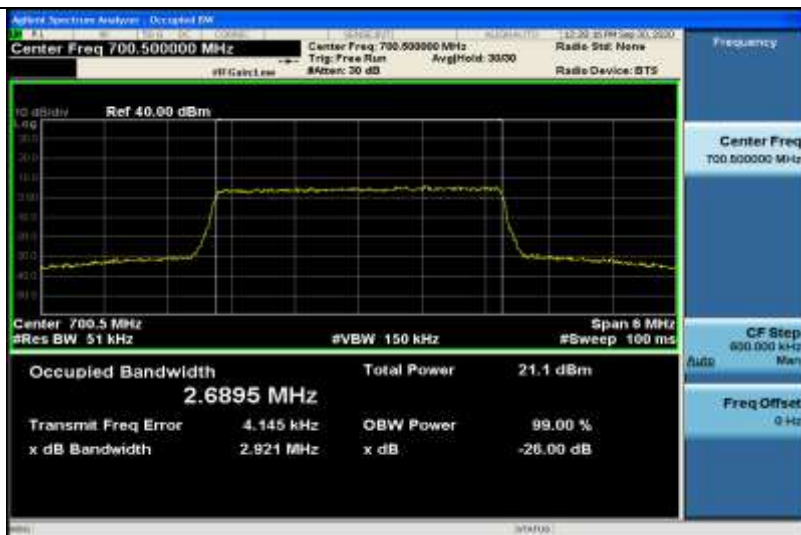
Band12-3MHz-QPSK-23095-15RB#0-2.7027



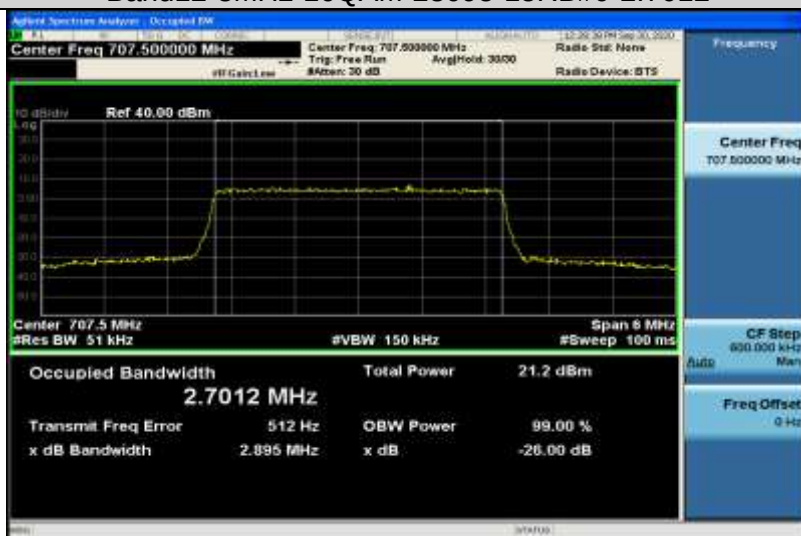
Band12-3MHz-QPSK-23165-15RB#0-2.6957



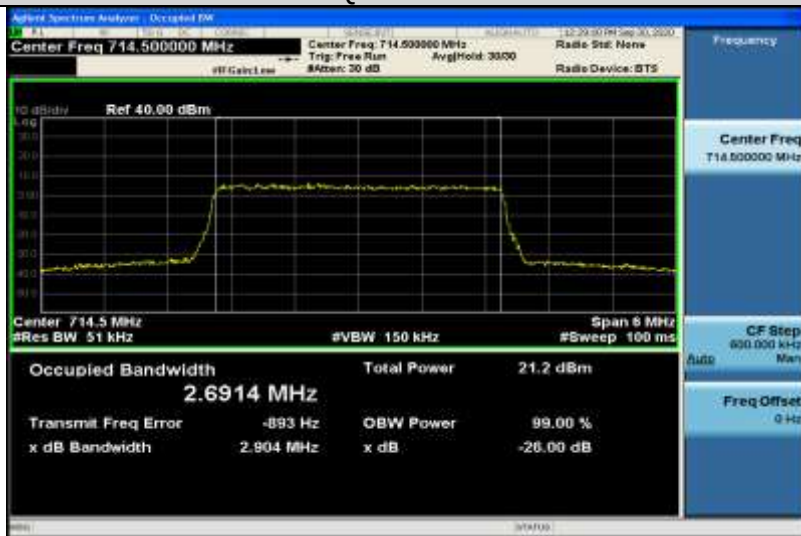
Band12-3MHz-16QAM-23025-15RB#0-2.6895



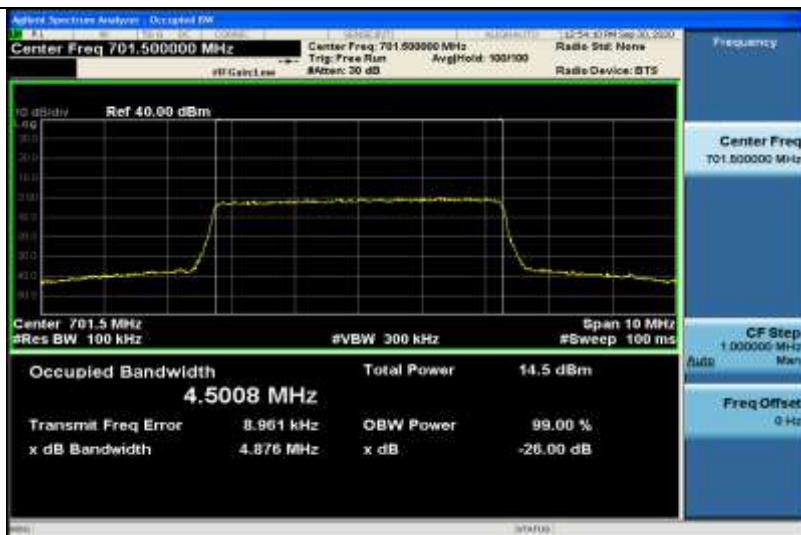
Band12-3MHz-16QAM-23095-15RB#0-2.7012



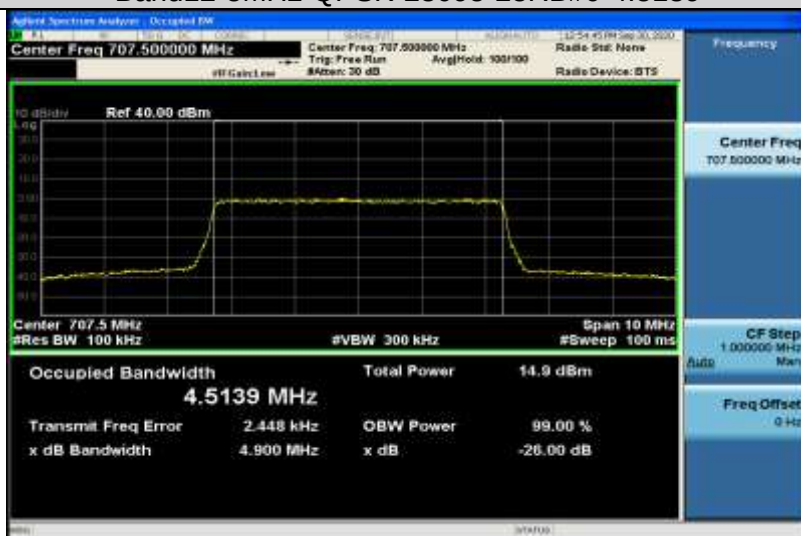
Band12-3MHz-16QAM-23165-15RB#0-2.6914



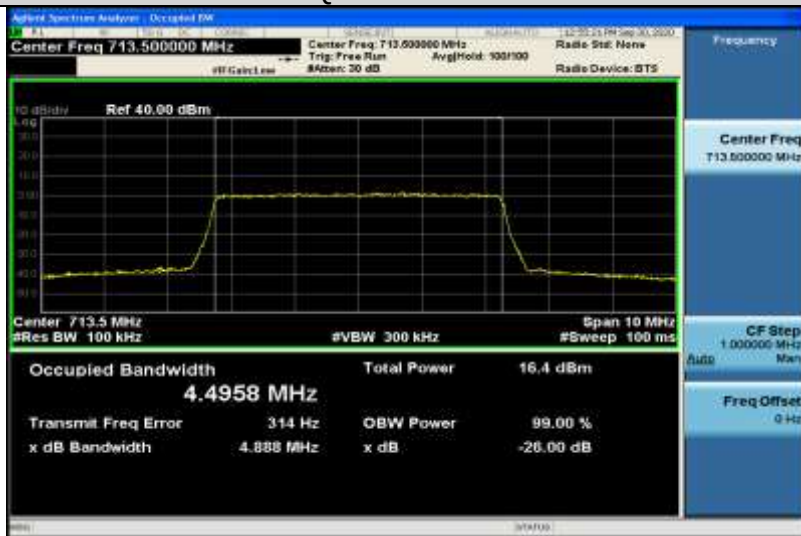
Band12-5MHz-QPSK-23035-25RB#0-4.5008



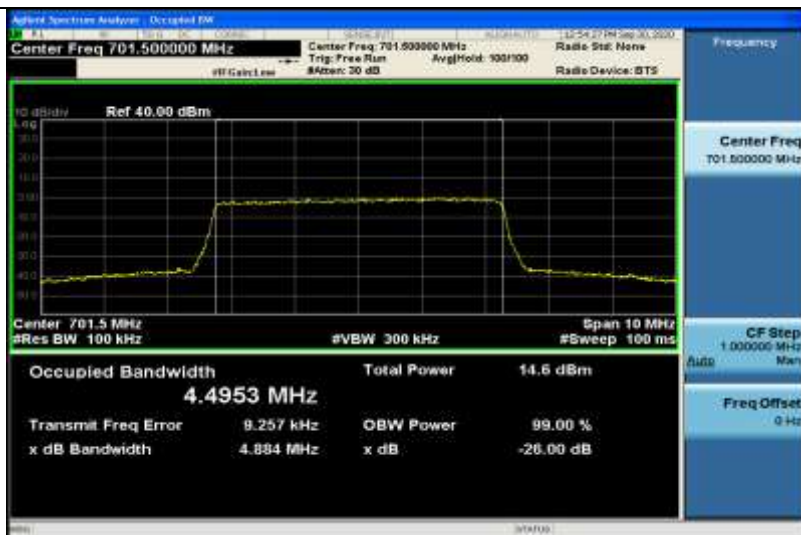
Band12-5MHz-QPSK-23095-25RB#0-4.5139



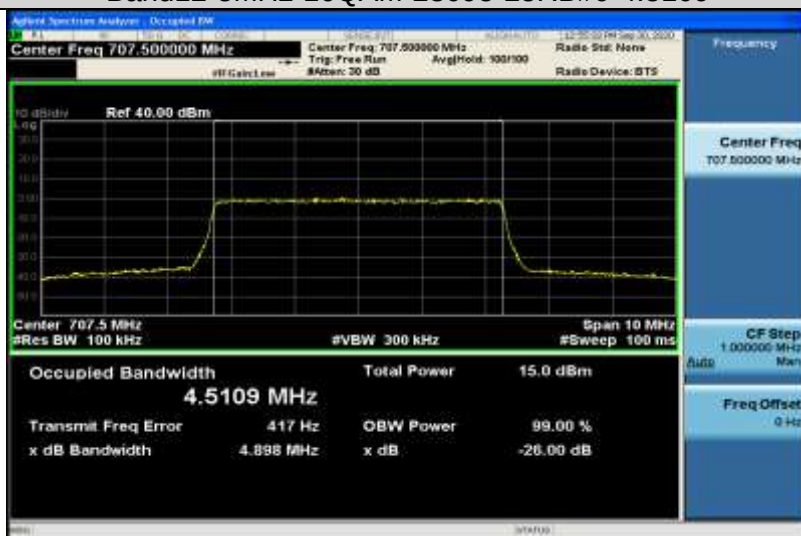
Band12-5MHz-QPSK-23155-25RB#0-4.4958



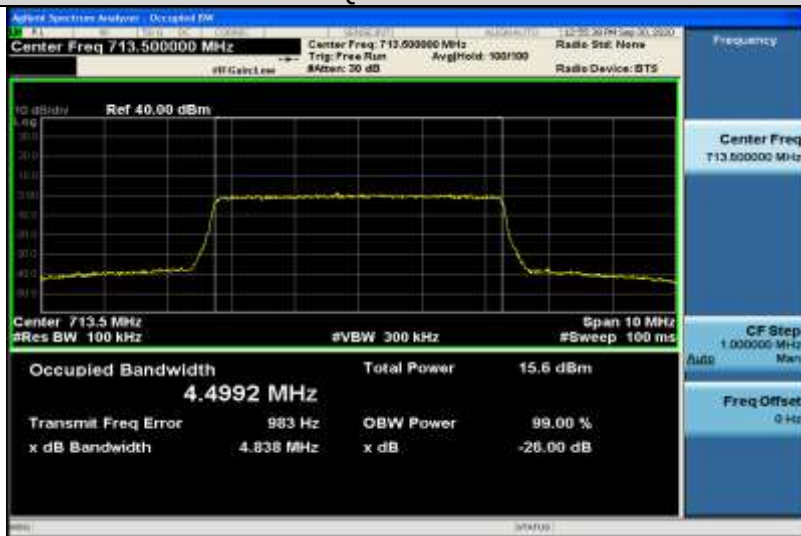
Band12-5MHz-16QAM-23035-25RB#0-4.4953



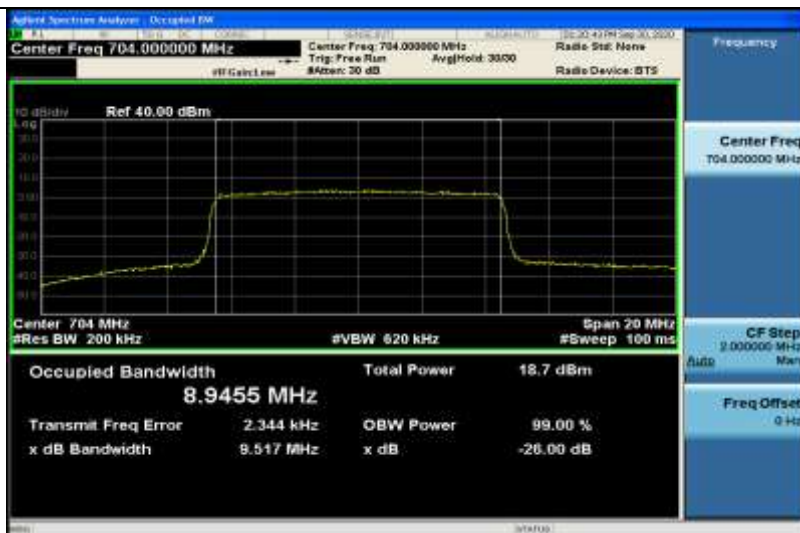
Band12-5MHz-16QAM-23095-25RB#0-4.5109



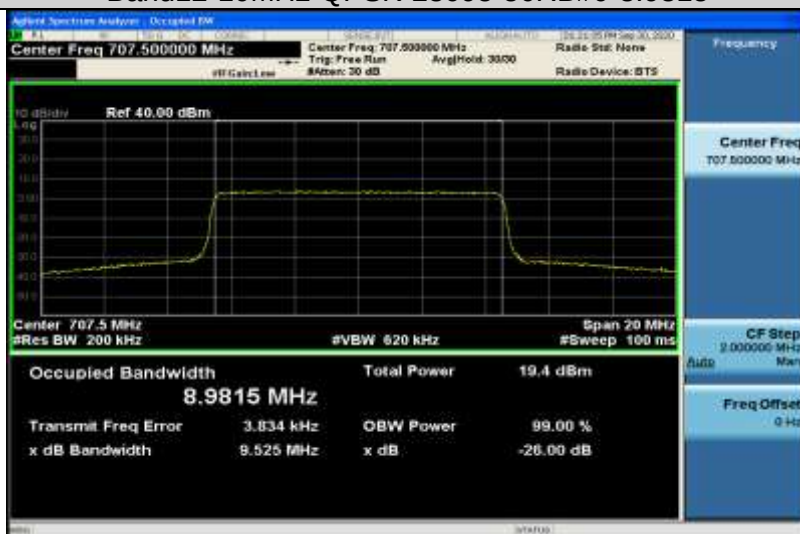
Band12-5MHz-16QAM-23155-25RB#0-4.4992



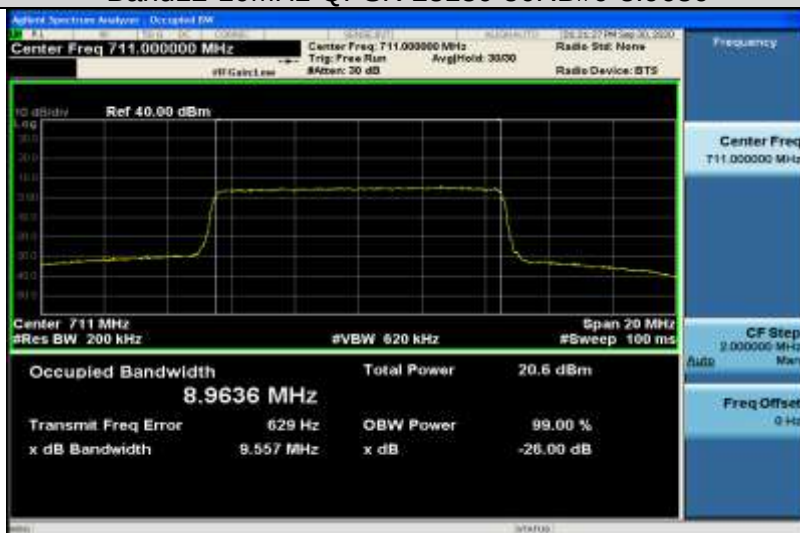
Band12-10MHz-QPSK-23060-50RB#0-8.9455



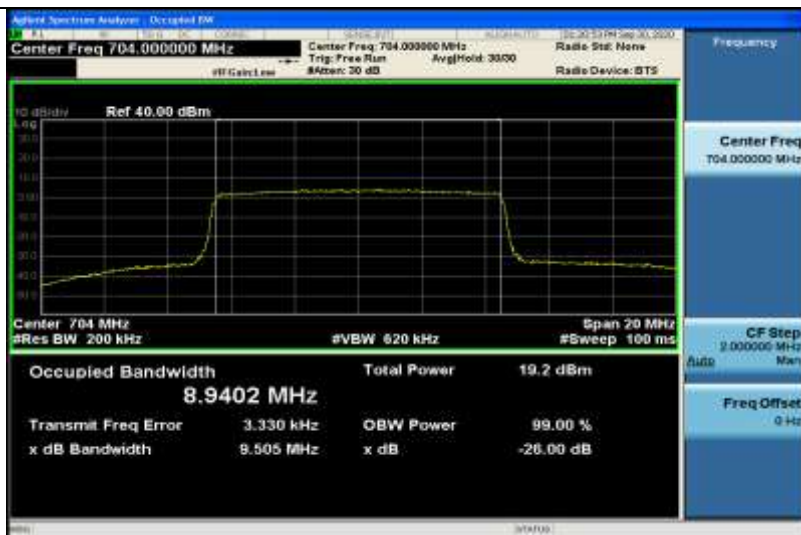
Band12-10MHz-QPSK-23095-50RB#0-8.9815



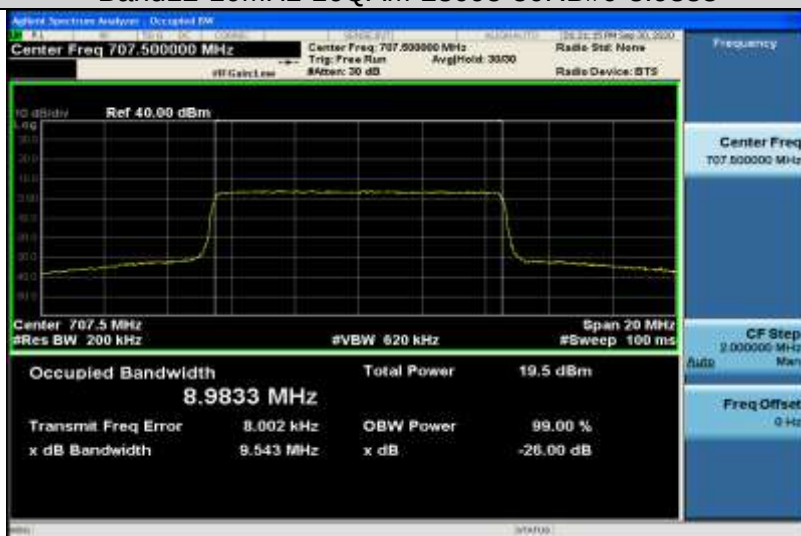
Band12-10MHz-QPSK-23130-50RB#0-8.9636



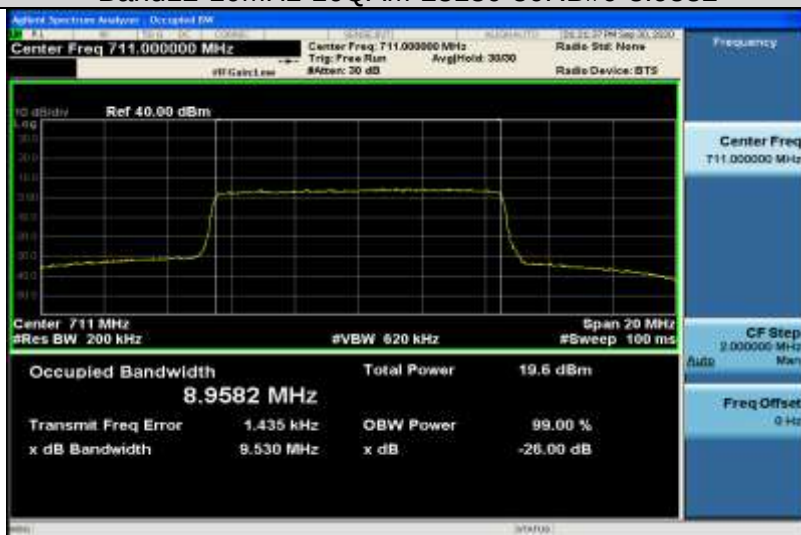
Band12-10MHz-16QAM-23060-50RB#0-8.9402



Band12-10MHz-16QAM-23095-50RB#0-8.9833



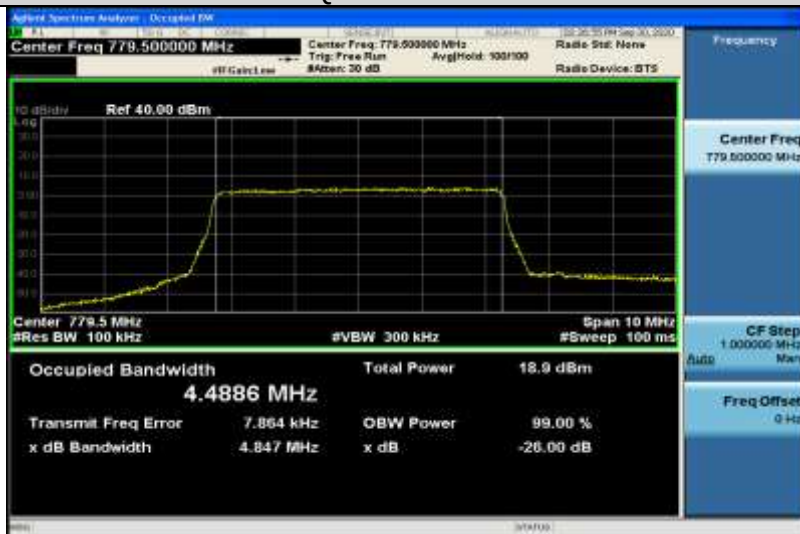
Band12-10MHz-16QAM-23130-50RB#0-8.9582





LTE Band 13

Band13-5MHz-QPSK-23205-25RB#0-4.4886



Band13-5MHz-QPSK-23230-25RB#0-4.4981



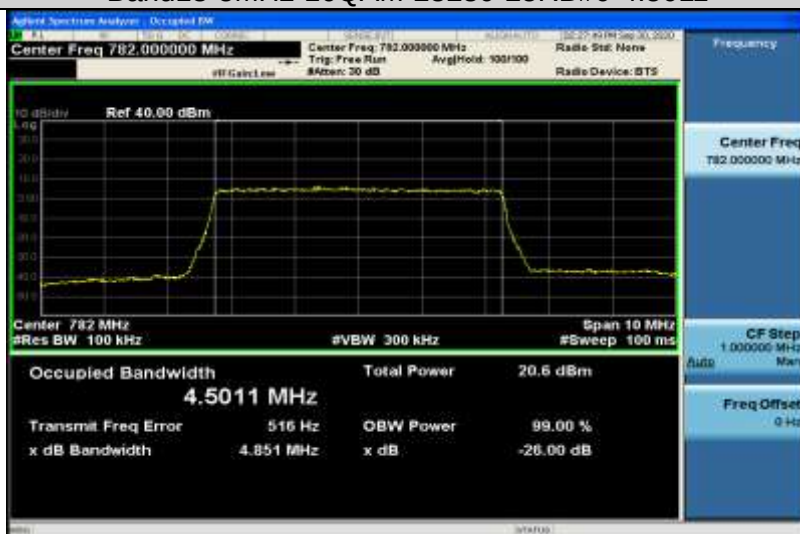
Band13-5MHz-QPSK-23255-25RB#0-4.5031



Band13-5MHz-16QAM-23205-25RB#0-4.4898



Band13-5MHz-16QAM-23230-25RB#0-4.5011



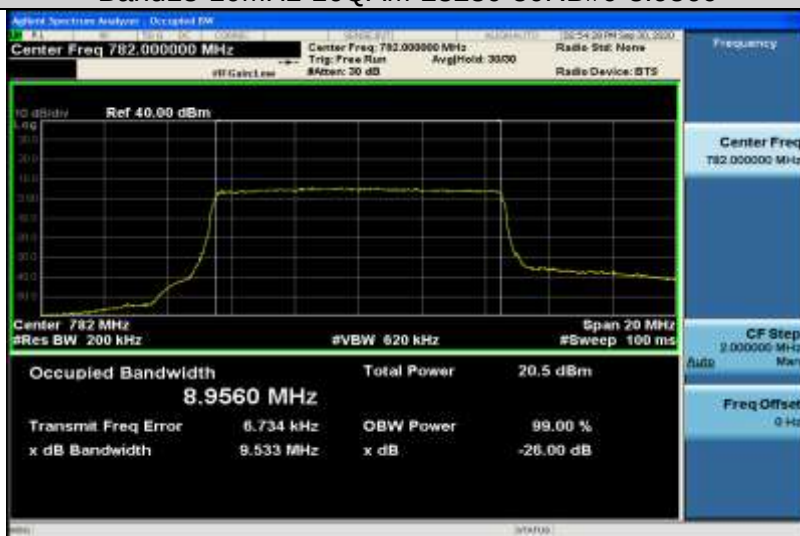
Band13-5MHz-16QAM-23255-25RB#0-4.5091



Band13-10MHz-QPSK-23230-50RB#0-8.9482



Band13-10MHz-16QAM-23230-50RB#0-8.9560





LTE Band 38

Band38-5MHz-QPSK-37775-25RB#0-4.5051



Band38-5MHz-QPSK-38000-25RB#0-4.5125



Band38-5MHz-QPSK-38225-25RB#0-4.4980



Band38-5MHz-16QAM-37775-25RB#0-4.4965



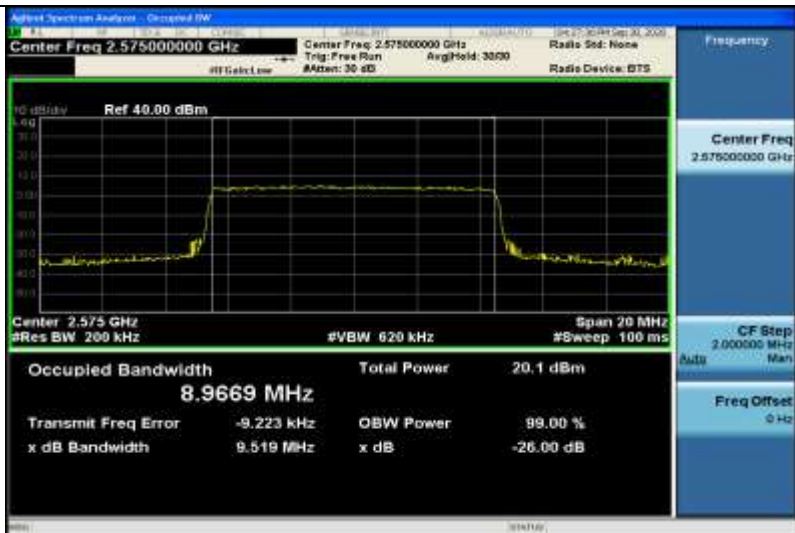
Band38-5MHz-16QAM-38000-25RB#0-4.5010



Band38-5MHz-16QAM-38225-25RB#0-4.4978



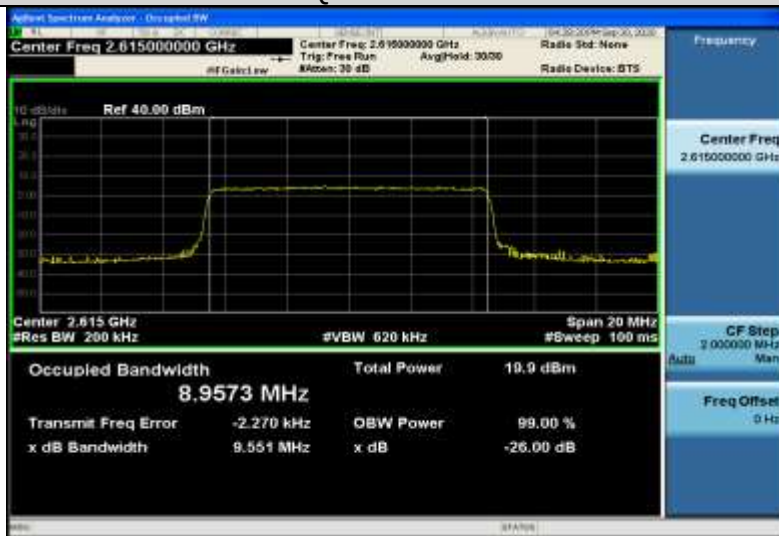
Band38-10MHz-QPSK-37800-50RB#0-8.9669



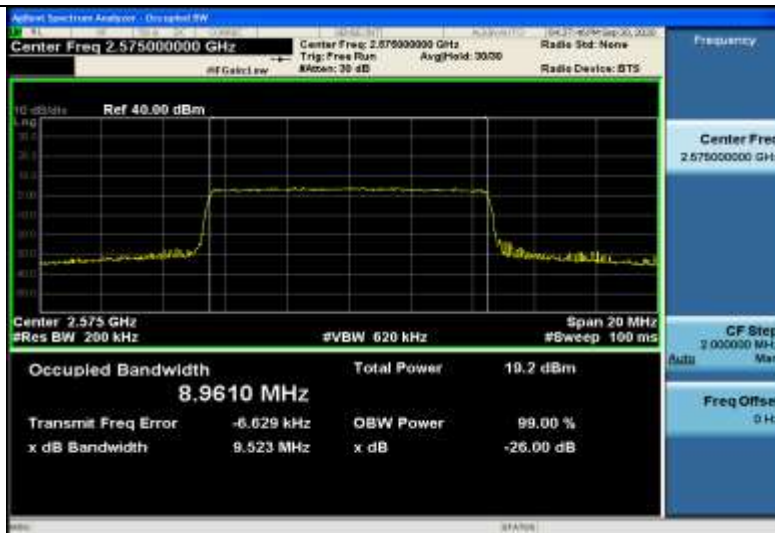
Band38-10MHz-QPSK-38000-50RB#0-8.9551



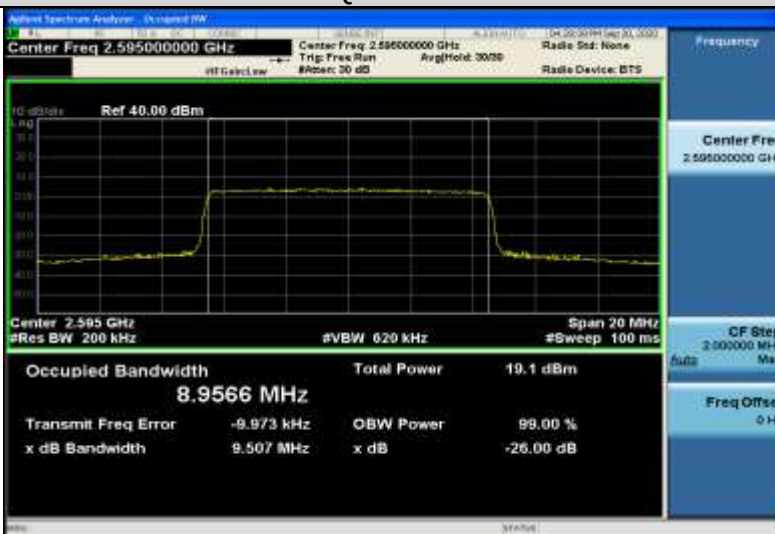
Band38-10MHz-QPSK-38200-50RB#0-8.9573



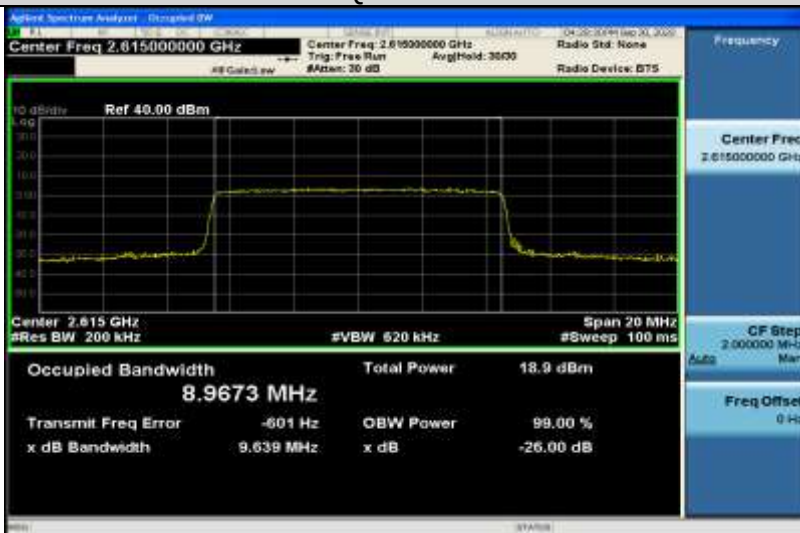
Band38-10MHz-16QAM-37800-50RB#0-8.9610



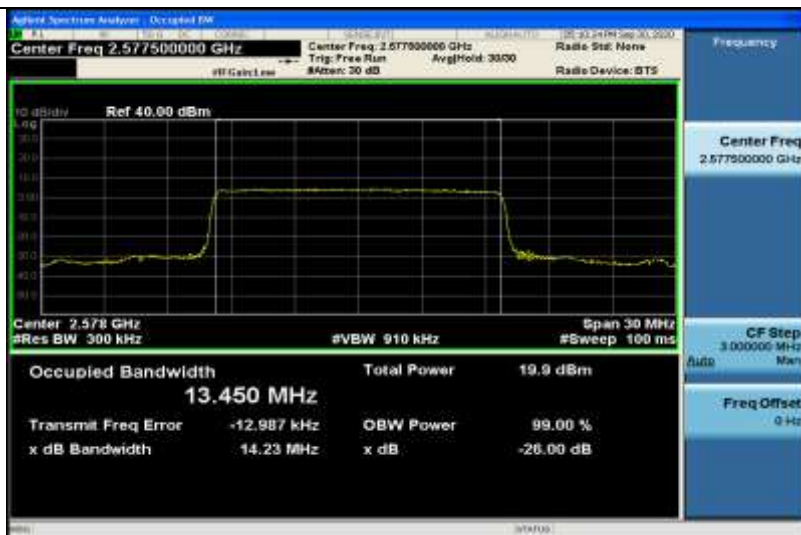
Band38-10MHz-16QAM-38000-50RB#0-8.9566



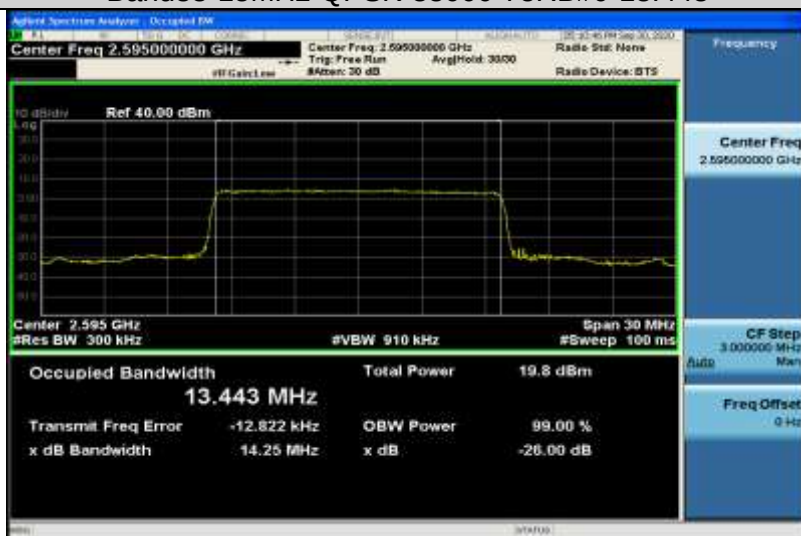
Band38-10MHz-16QAM-38200-50RB#0-8.9673



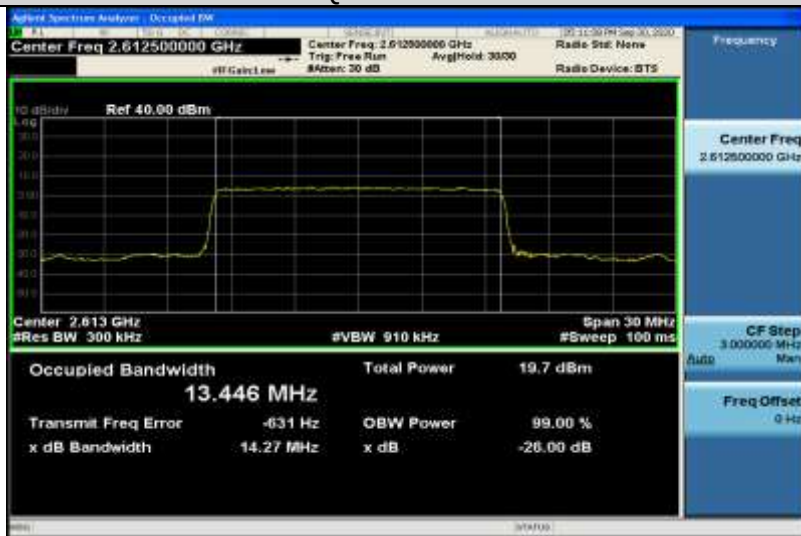
Band38-15MHz-QPSK-37825-75RB#0-13.450



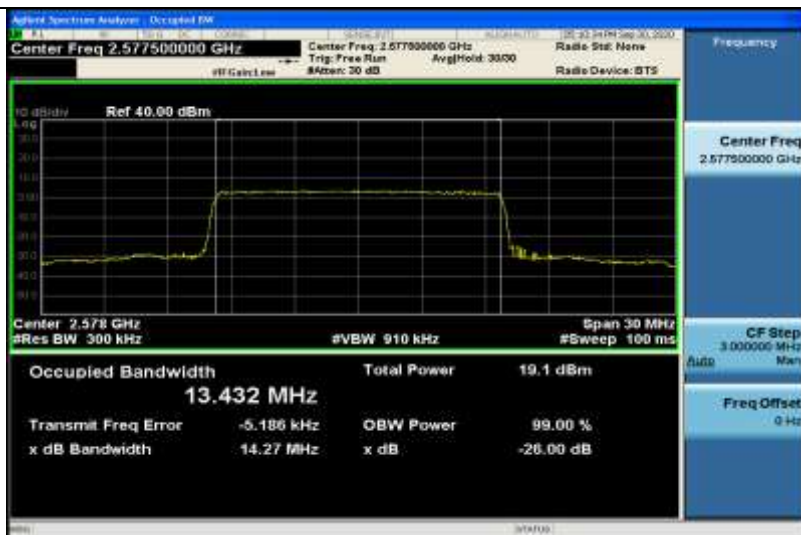
Band38-15MHz-QPSK-38000-75RB#0-13.443



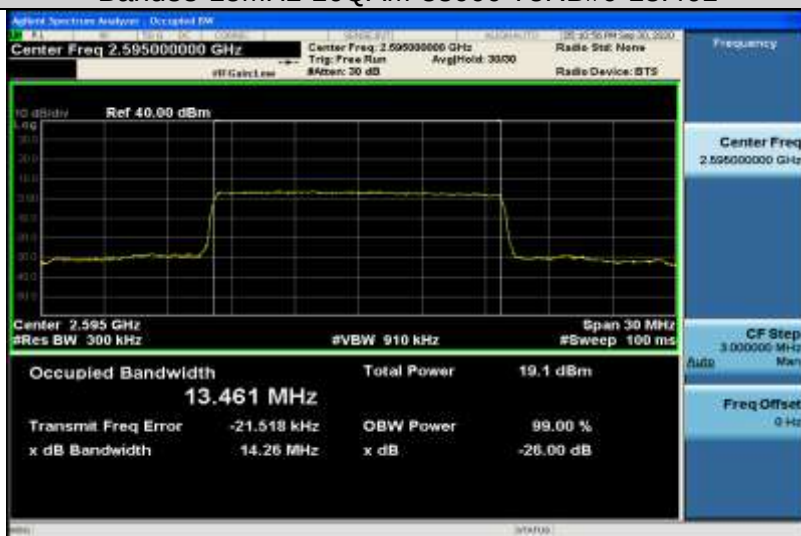
Band38-15MHz-QPSK-38175-75RB#0-13.446



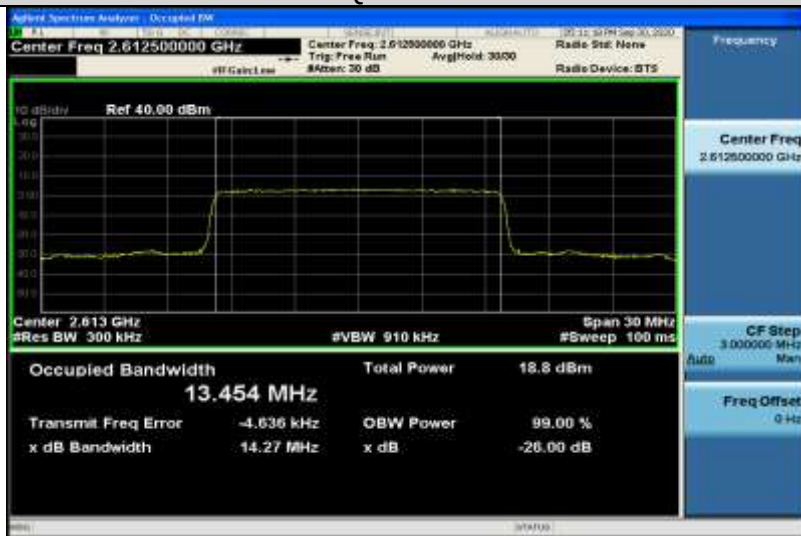
Band38-15MHz-16QAM-37825-75RB#0-13.432



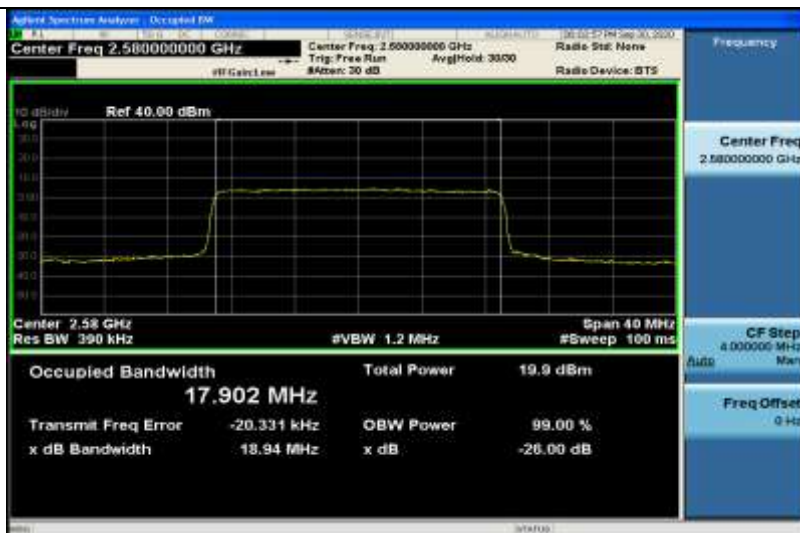
Band38-15MHz-16QAM-38000-75RB#0-13.461



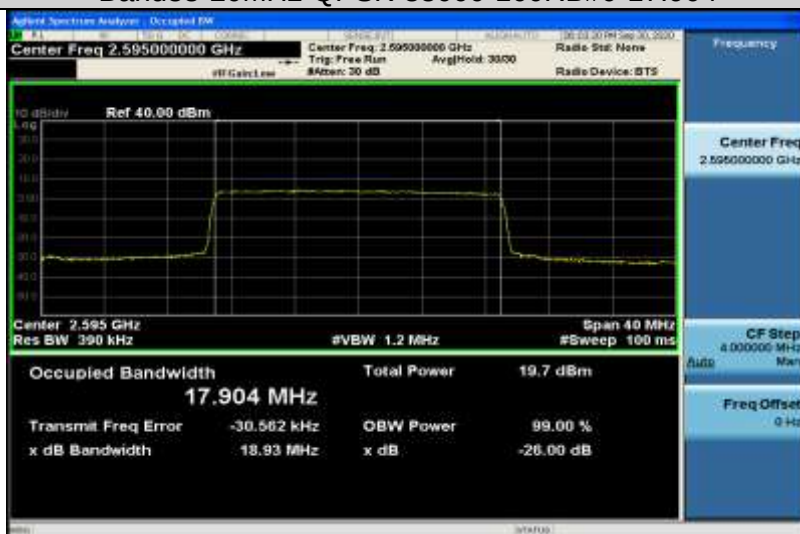
Band38-15MHz-16QAM-38175-75RB#0-13.454



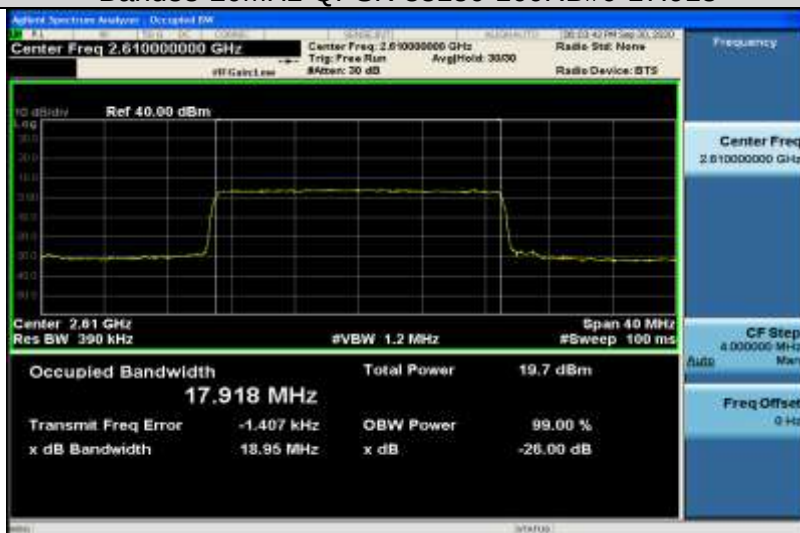
Band38-20MHz-QPSK-37850-100RB#0-17.902



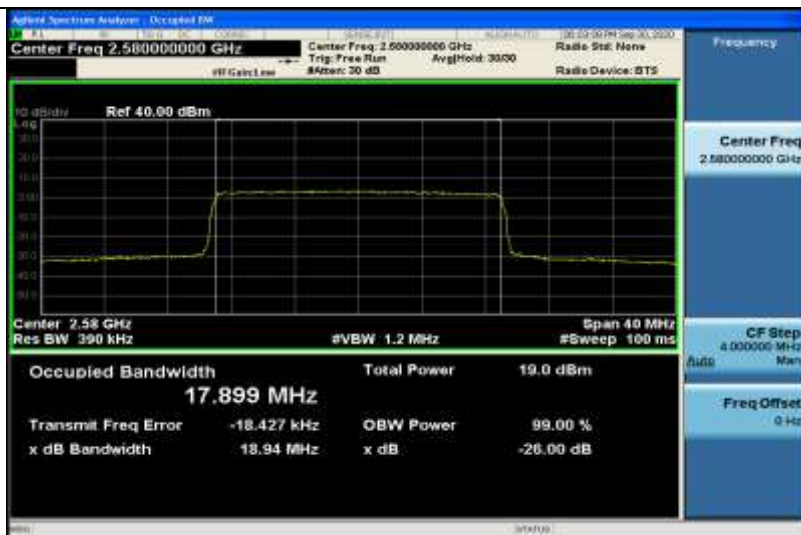
Band38-20MHz-QPSK-38000-100RB#0-17.904



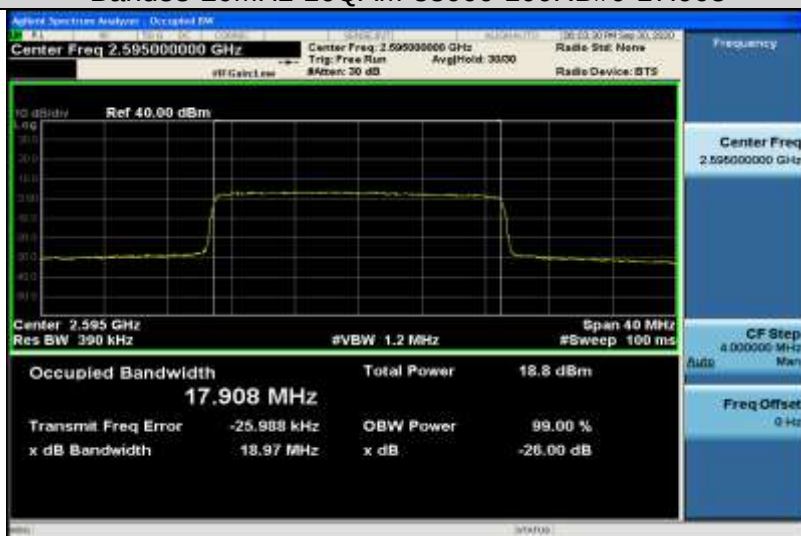
Band38-20MHz-QPSK-38150-100RB#0-17.918



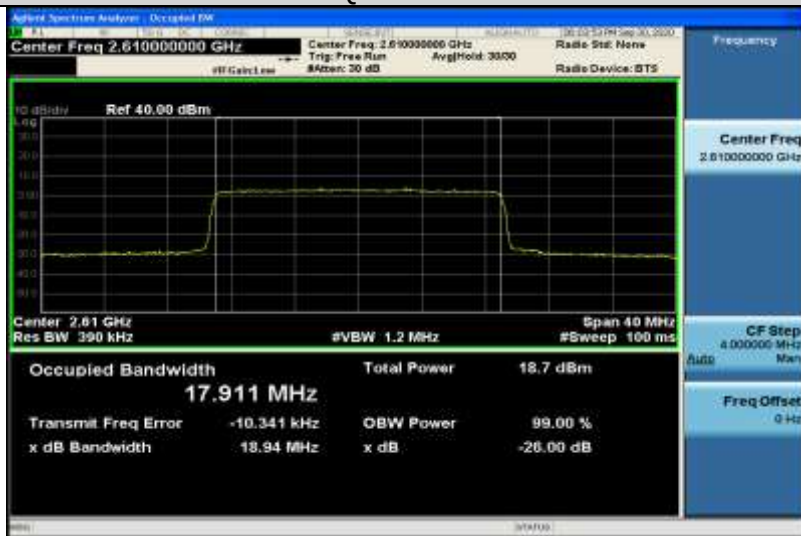
Band38-20MHz-16QAM-37850-100RB#0-17.899



Band38-20MHz-16QAM-38000-100RB#0-17.908



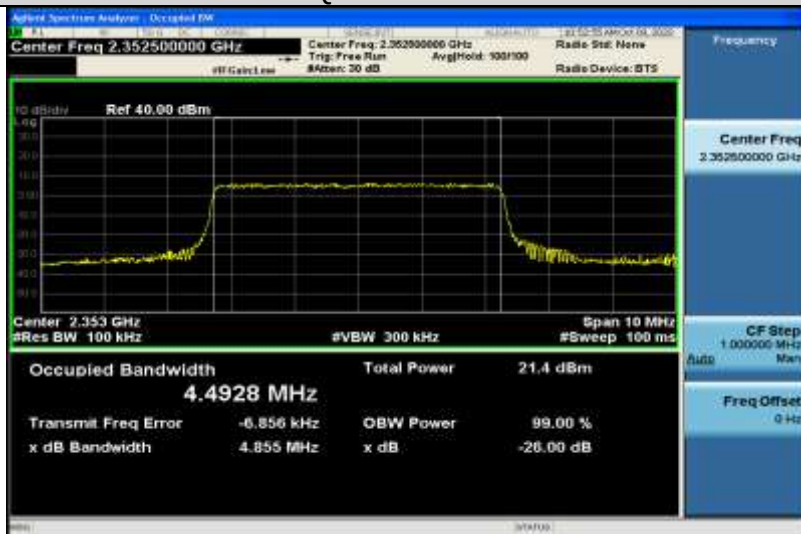
Band38-20MHz-16QAM-38150-100RB#0-17.911





LTE Band 40

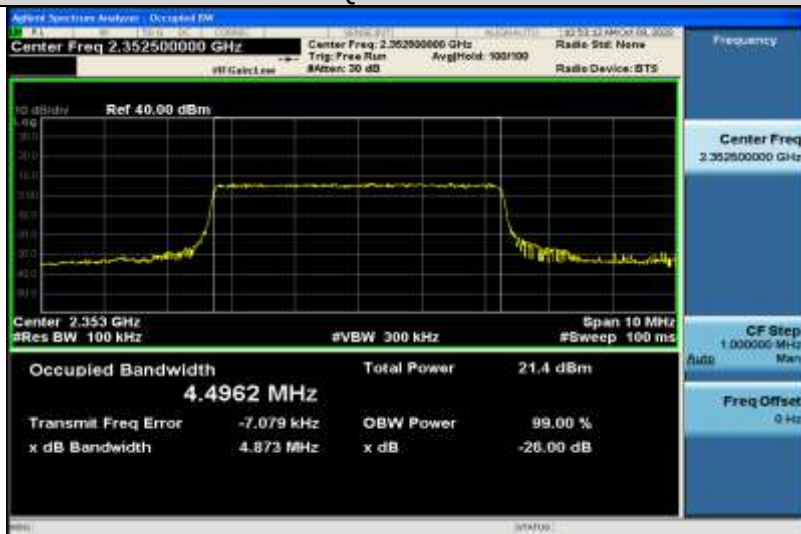
Band40-5MHz-QPSK-39175-25RB#0-4.4928



Band40-5MHz-QPSK-39225-25RB#0-4.4997



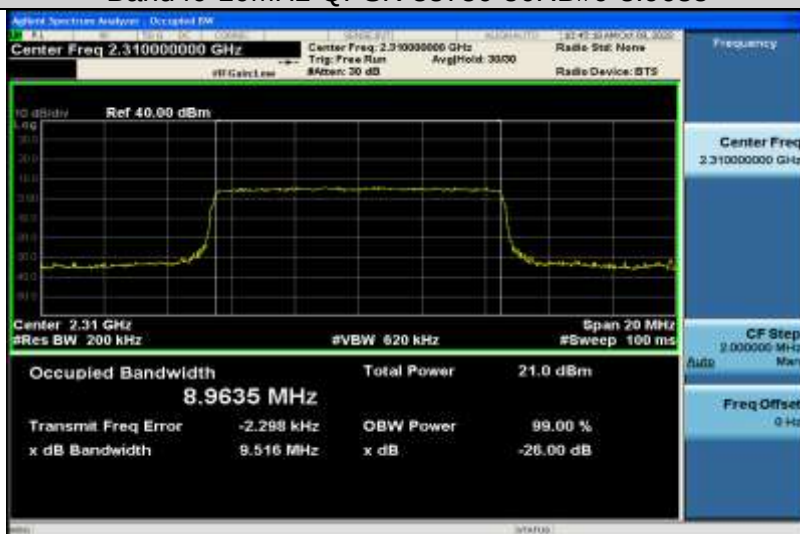
Band40-5MHz-16QAM-39175-25RB#0-4.4962



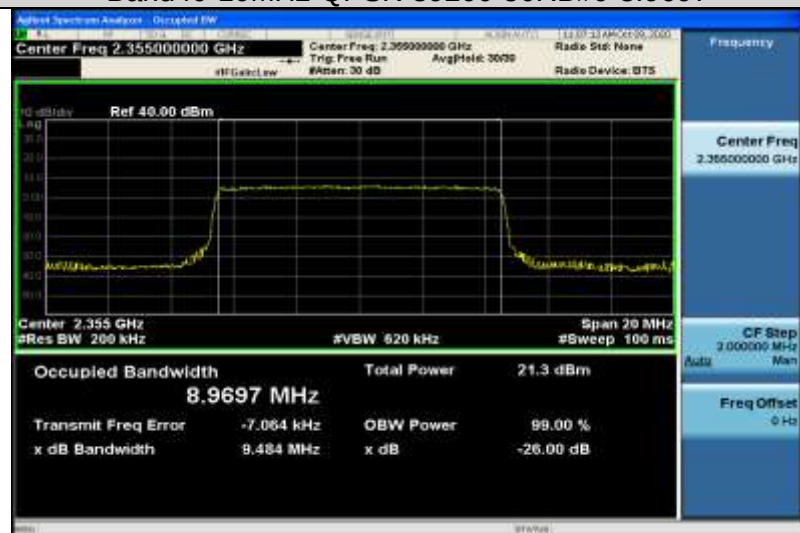
Band40-5MHz-16QAM-39225-25RB#0-4.4930



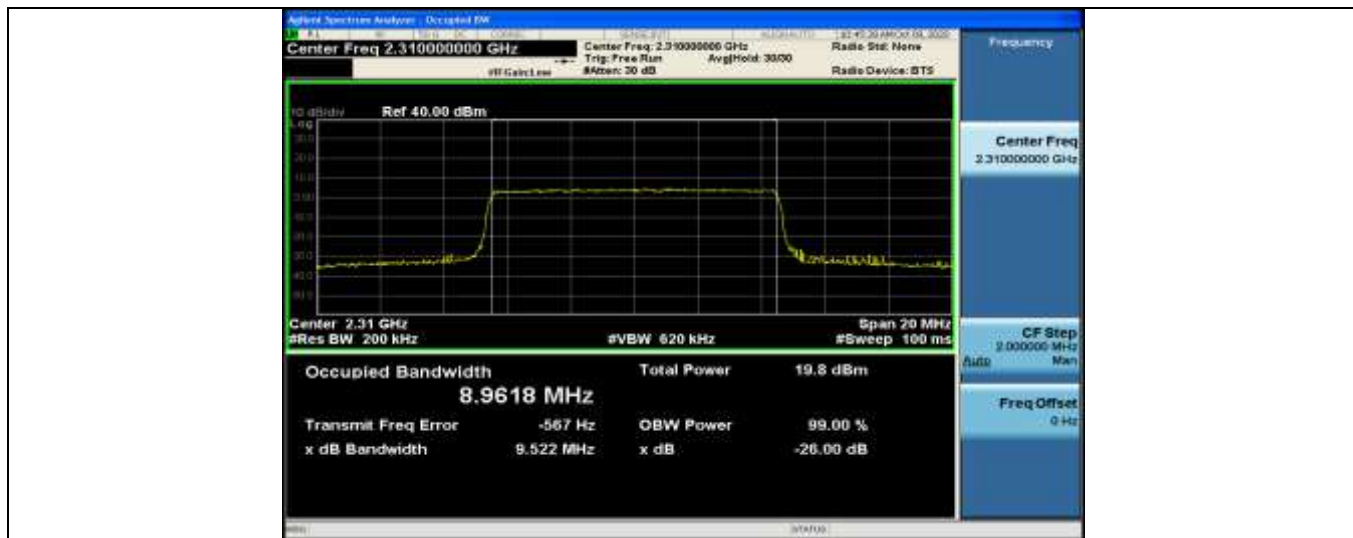
Band40-10MHz-QPSK-38750-50RB#0-8.9635



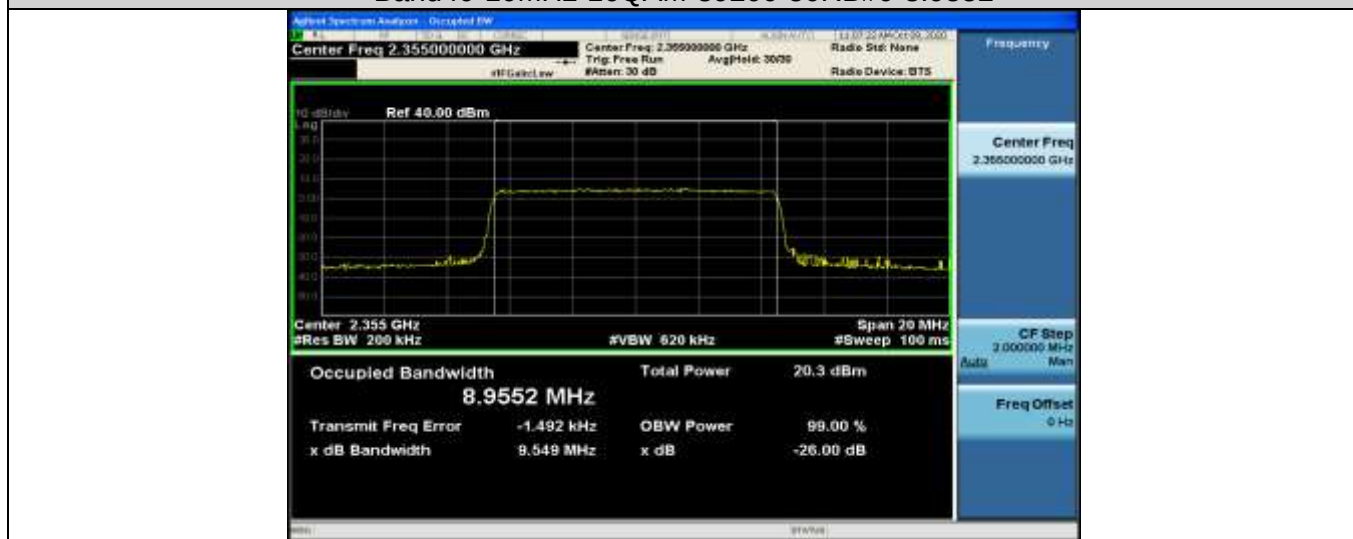
Band40-10MHz-QPSK-39200-50RB#0-8.9697



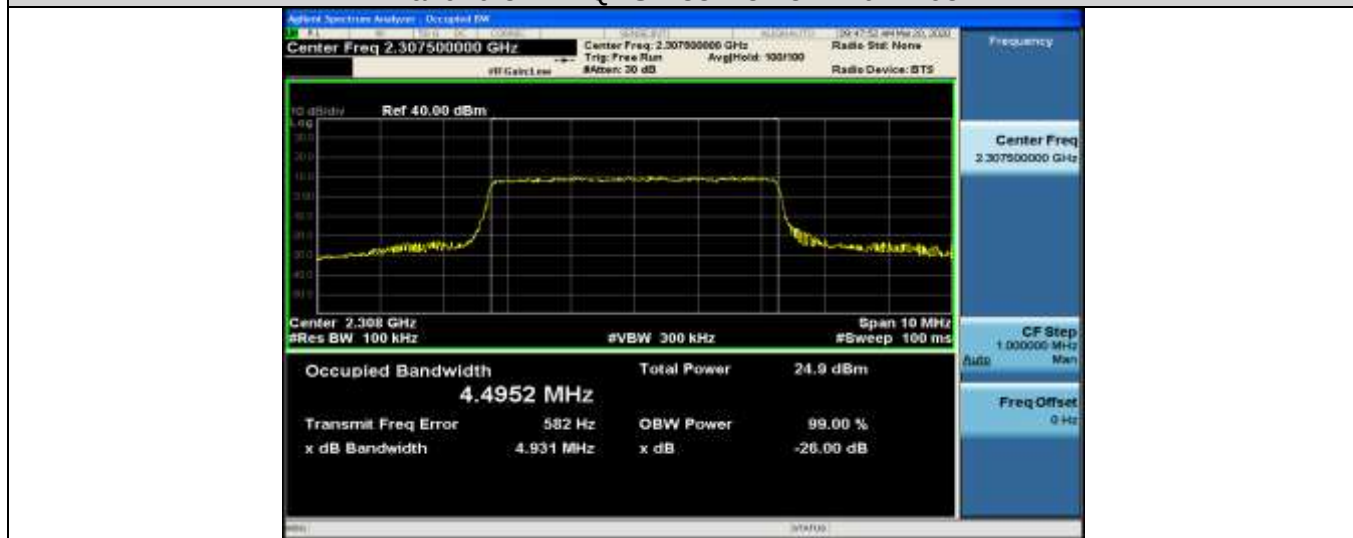
Band40-10MHz-16QAM-38750-50RB#0-8.9618



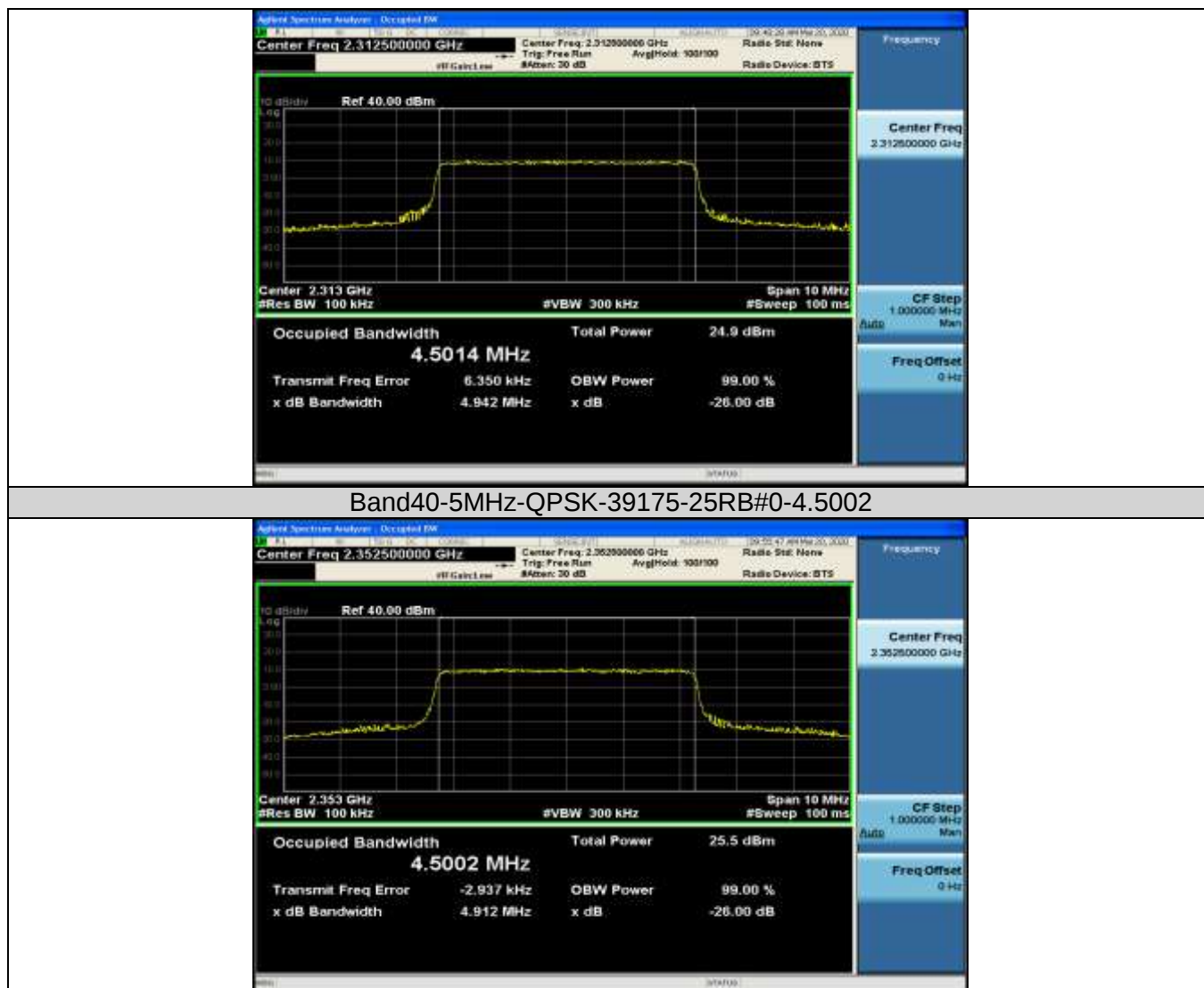
Band40-10MHz-16QAM-39200-50RB#0-8.9552



Band40-5MHz-QPSK-38725-25RB#0-4.4952



Band40-5MHz-QPSK-38775-25RB#0-4.5014





LTE Band 41

Band41 5MHz QPSK 40265 25RB#0



Band41 5MHz QPSK 40690 25RB#0



Band41 5MHz QPSK 41215 25RB#0





Band41 5MHz 16QAM 40265 25RB#0



Band41 5MHz 16QAM 40690 25RB#0



Band41 5MHz 16QAM 41215 25RB#0





Band41 10MHz QPSK 40290 50RB#0



Band41 10MHz QPSK 40690 50RB#0



Band41 10MHz QPSK 41190 50RB#0





Band41_10MHz_16QAM_40290_50RB#0



Band41_10MHz_16QAM_40690_50RB#0



Band41_10MHz_16QAM_41190_50RB#0





Band41 15MHz QPSK 40315 75RB#0



Band41 15MHz QPSK 40690 75RB#0



Band41 15MHz QPSK 41165 75RB#0





Band41_15MHz_16QAM_40315_75RB#0



Band41_15MHz_16QAM_40690_75RB#0



Band41_15MHz_16QAM_41165_75RB#0





Band41_20MHz_QPSK_40340_100RB#0



Band41_20MHz_QPSK_40690_100RB#0



Band41_20MHz_QPSK_41140_100RB#0





Band41	20MHz	16QAM	40340	100RB#0
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Band41 20MHz 16QAM 40690 100RB#0



Band41 20MHz 16QAM 41140 100RB#0



5.5 Spurious emissions at antenna terminals

5.5.1 Limit

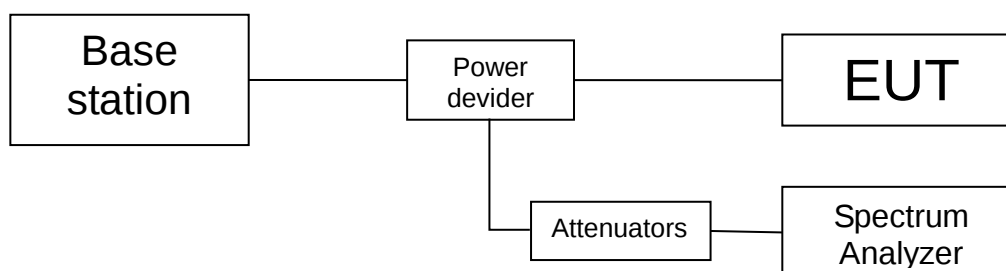
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm).

Band7: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

5.5.2 Test procedure

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.
3. For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic.
4. Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

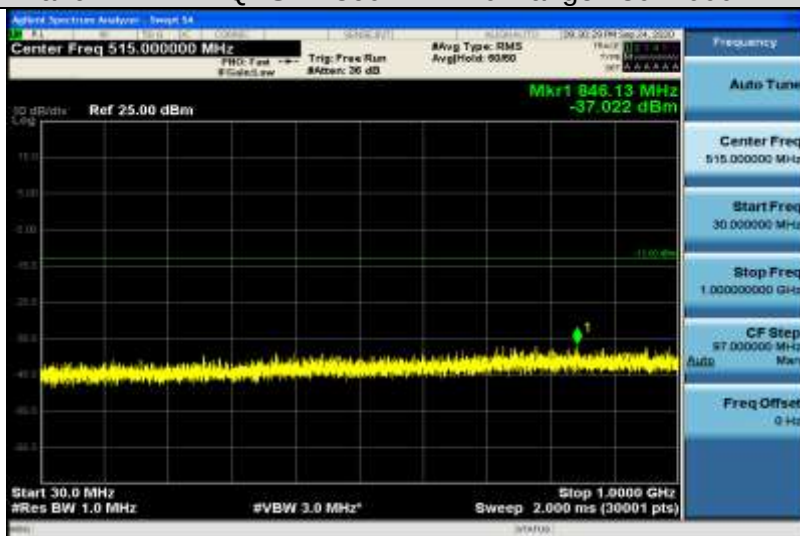
5.5.3 Test setup





5.5.4 Test results

Band2-1.4MHz-QPSK-18607-1RB#0-Range1:30~1000MHz



Band2-1.4MHz-QPSK-18607-1RB#0-Range2:1000~5000MHz



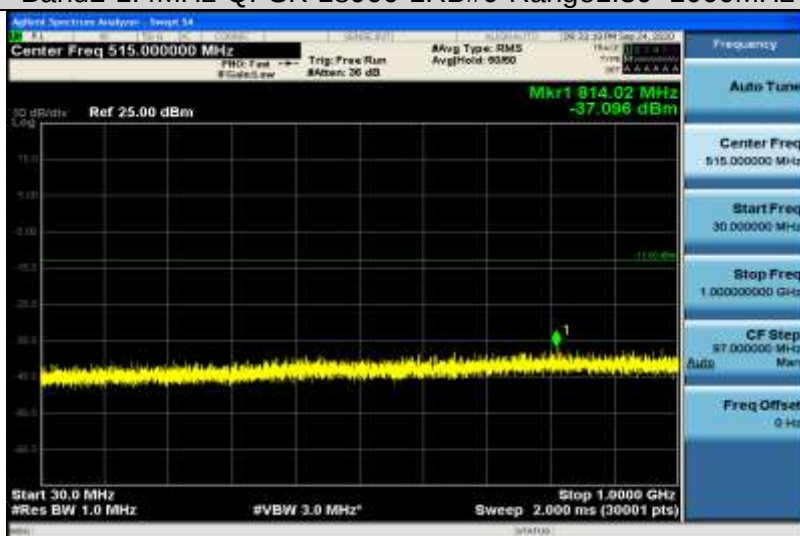
Band2-1.4MHz-QPSK-18607-1RB#0-Range3:5000~12000MHz



Band2-1.4MHz-QPSK-18607-1RB#0-Range4:12000~26500MHz



Band2-1.4MHz-QPSK-18900-1RB#0-Range1:30~1000MHz



Band2-1.4MHz-QPSK-18900-1RB#0-Range2:1000~5000MHz



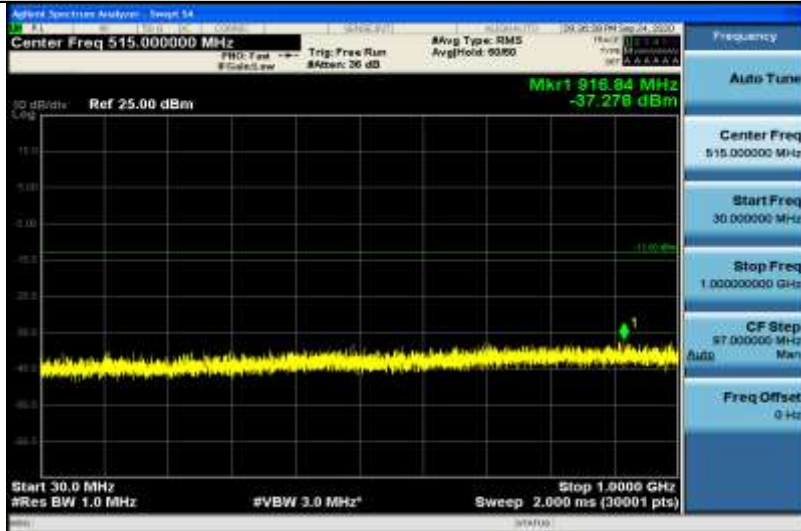
Band2-1.4MHz-QPSK-18900-1RB#0-Range3:5000~12000MHz



Band2-1.4MHz-QPSK-18900-1RB#0-Range4:12000~26500MHz



Band2-1.4MHz-QPSK-19193-1RB#0-Range1:30~1000MHz



Band2-1.4MHz-QPSK-19193-1RB#0-Range2:1000~5000MHz



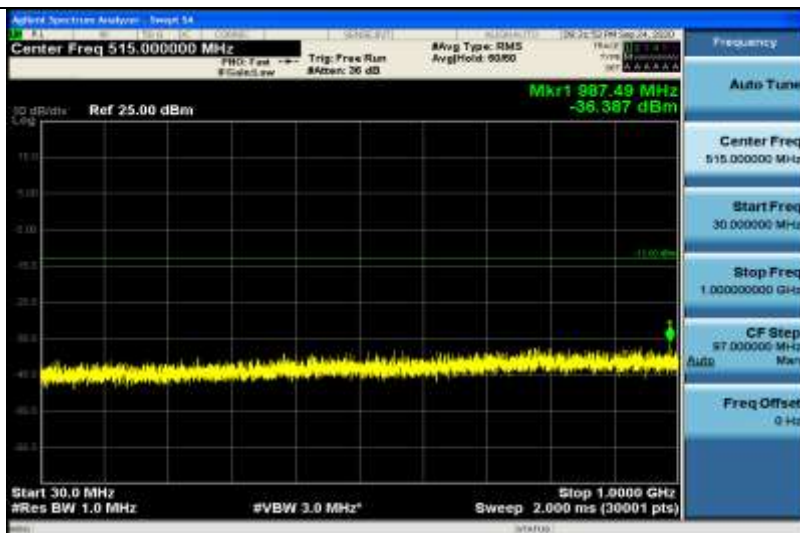
Band2-1.4MHz-QPSK-19193-1RB#0-Range3:5000~12000MHz



Band2-1.4MHz-QPSK-19193-1RB#0-Range4:12000~26500MHz



Band2-1.4MHz-16QAM-18607-1RB#0-Range1:30~1000MHz



Band2-1.4MHz-16QAM-18607-1RB#0-Range2:1000~5000MHz



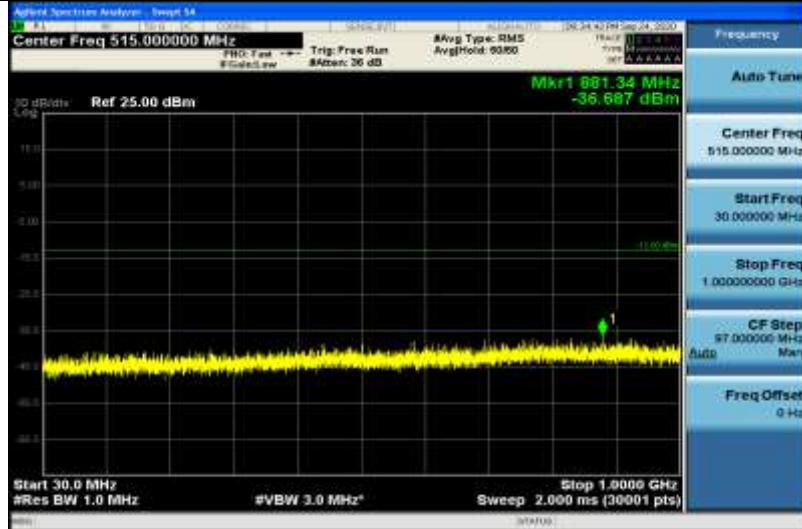
Band2-1.4MHz-16QAM-18607-1RB#0-Range3:5000~12000MHz



Band2-1.4MHz-16QAM-18607-1RB#0-Range4:12000~26500MHz



Band2-1.4MHz-16QAM-18900-1RB#0-Range1:30~1000MHz



Band2-1.4MHz-16QAM-18900-1RB#0-Range2:1000~5000MHz



Band2-1.4MHz-16QAM-18900-1RB#0-Range3:5000~12000MHz