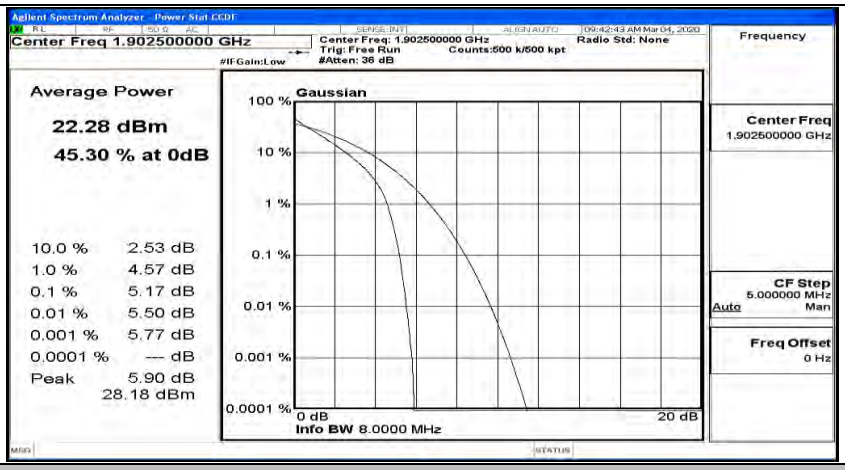
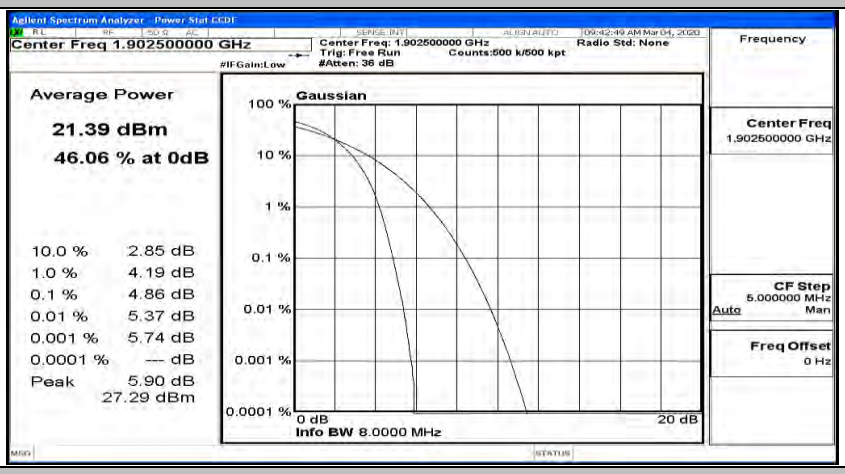
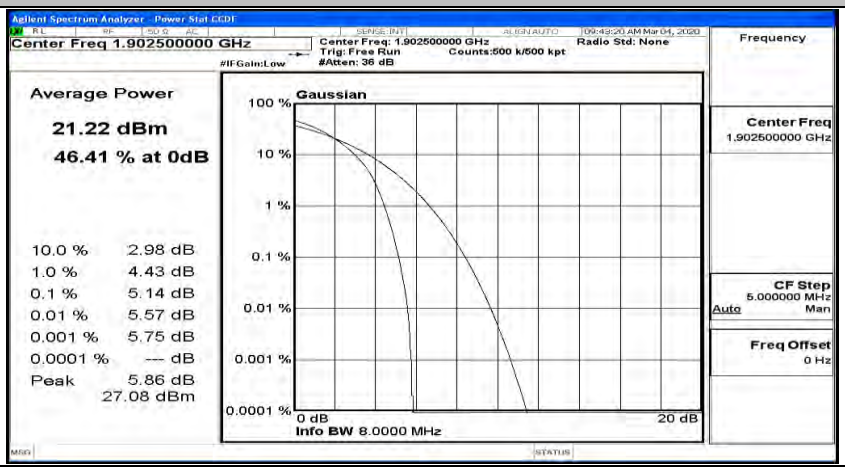


(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#38



(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0



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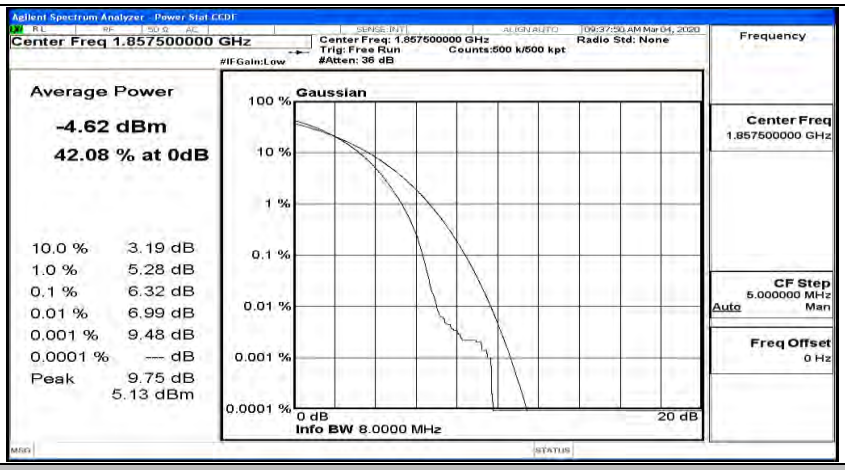

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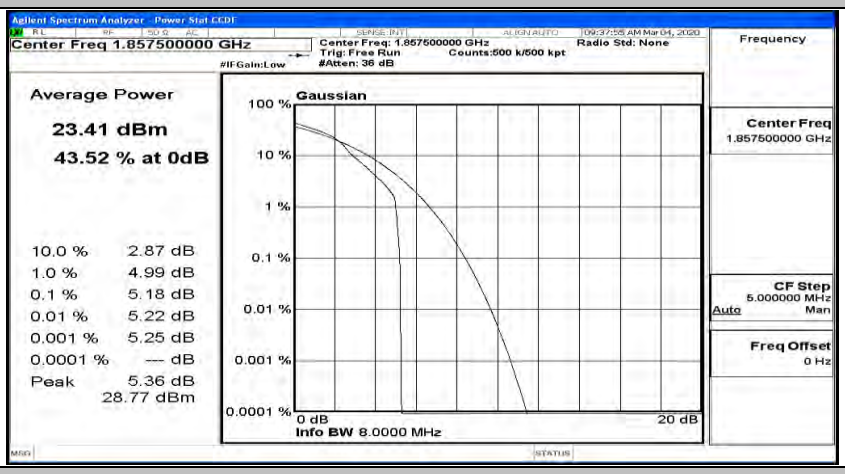

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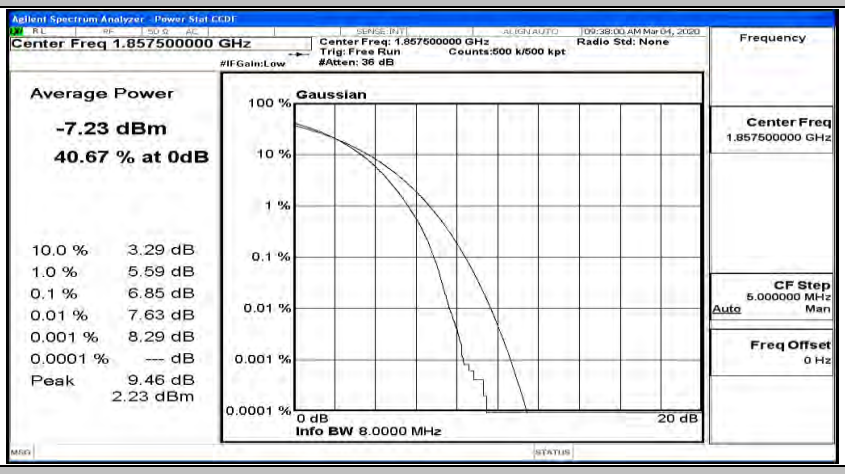

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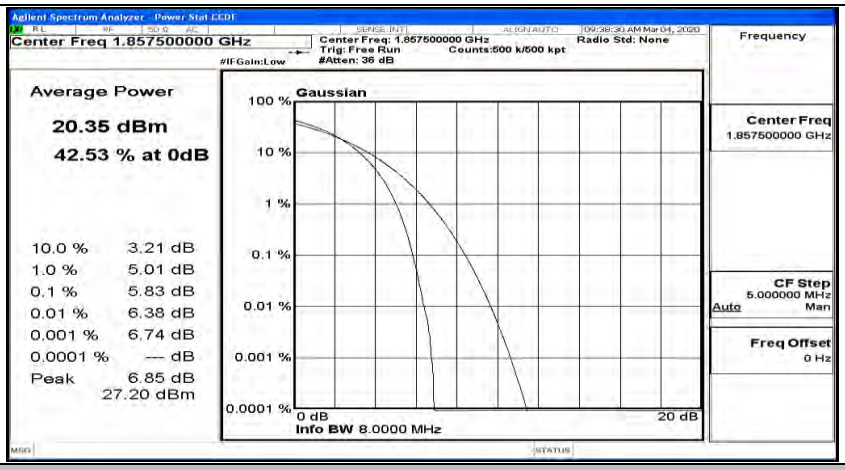

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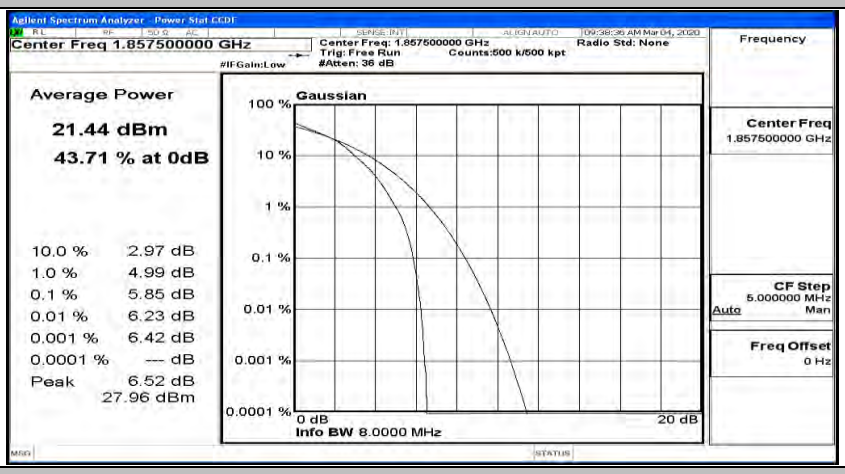

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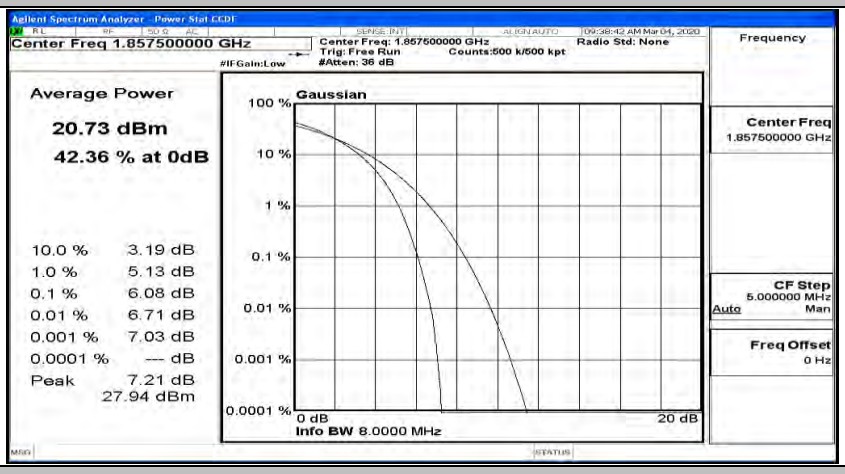

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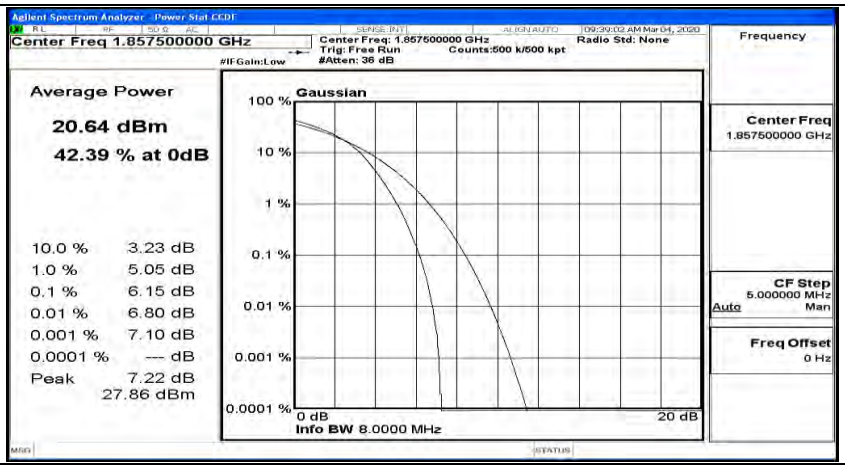

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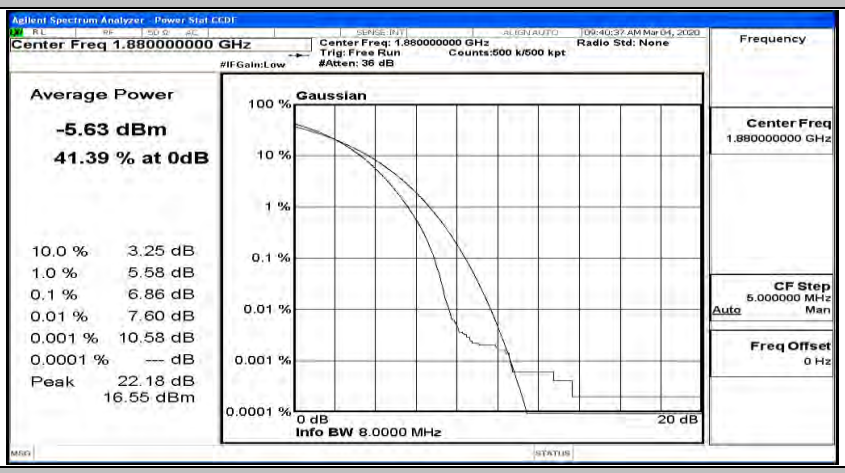

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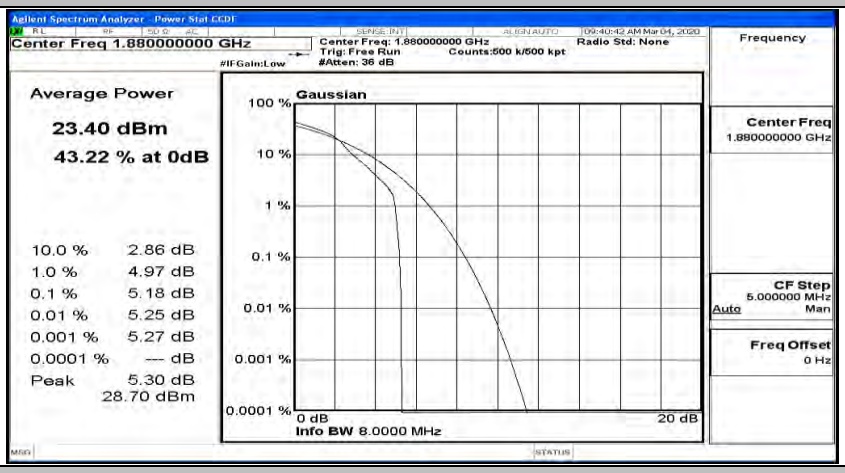

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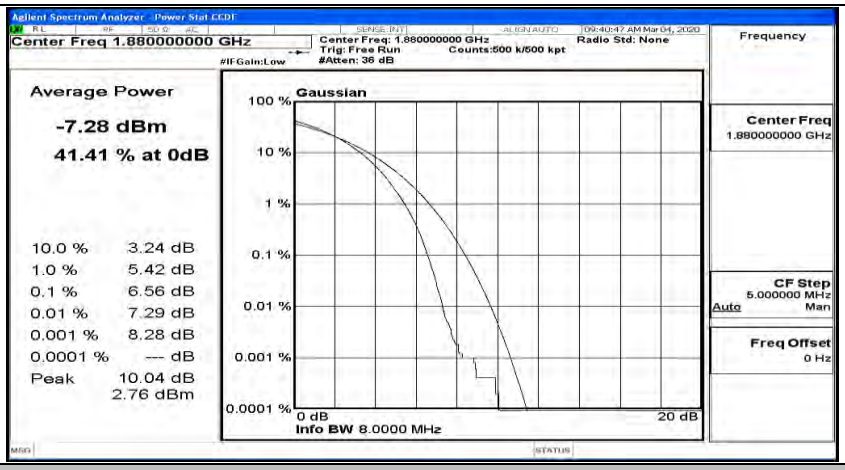

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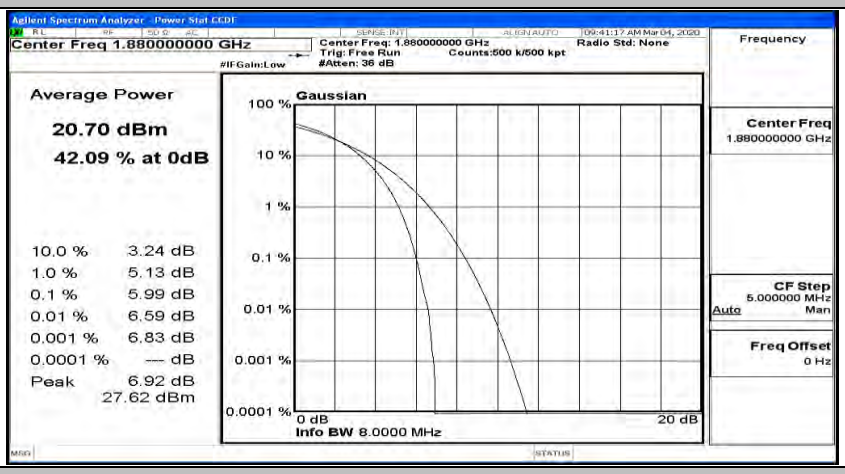
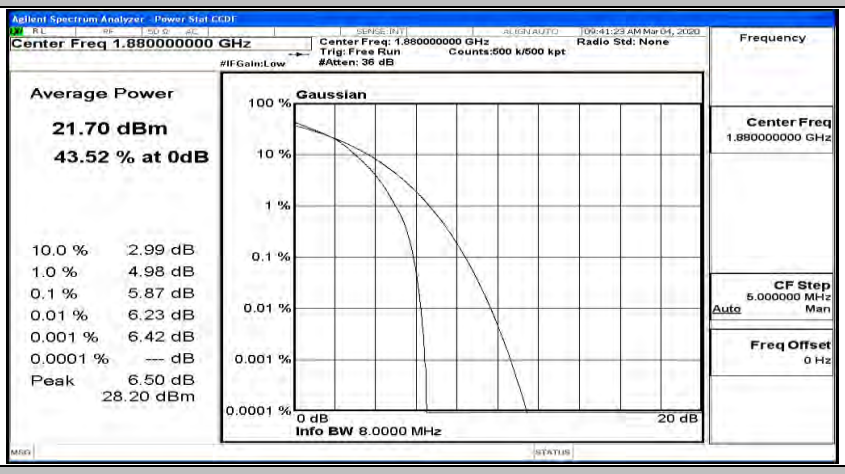
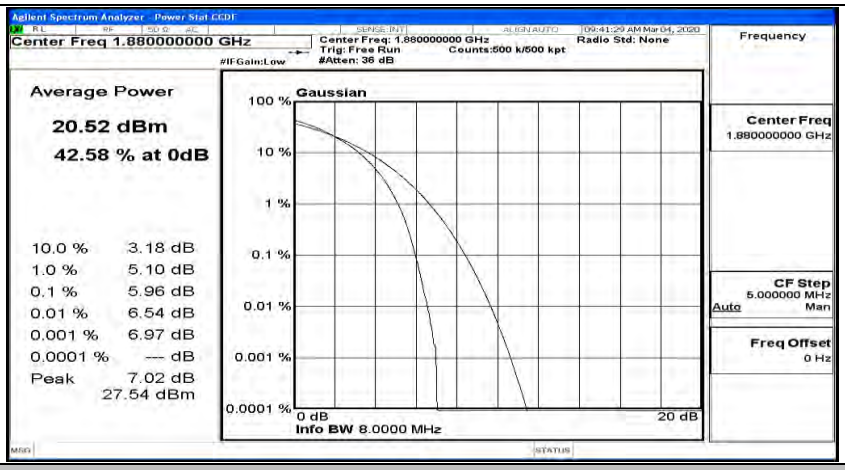


(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#18



(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#38



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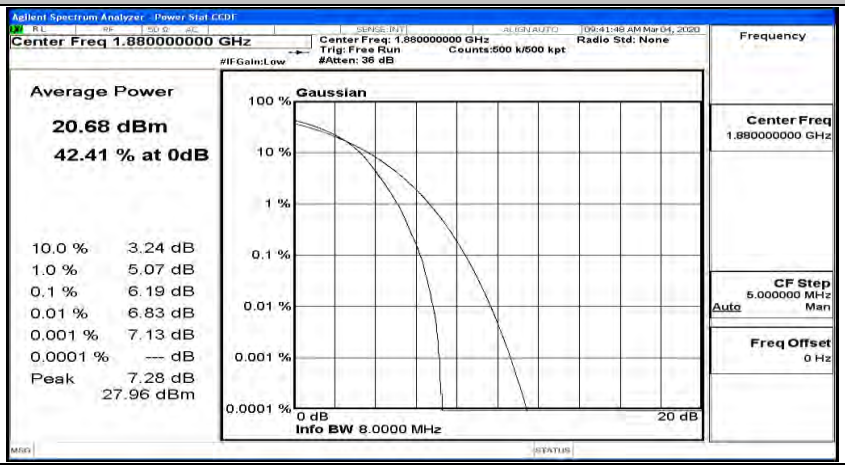
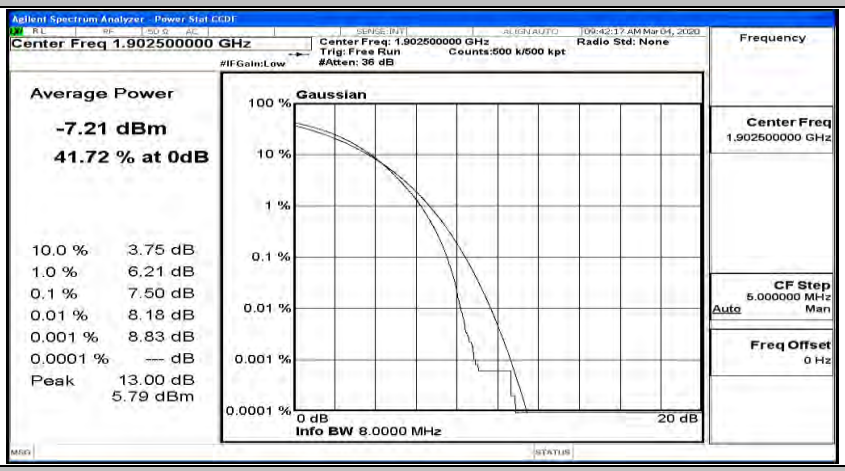


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0



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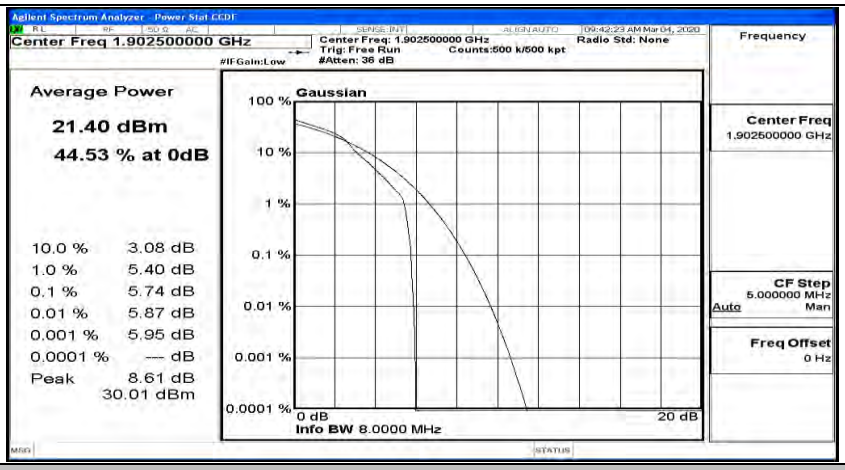

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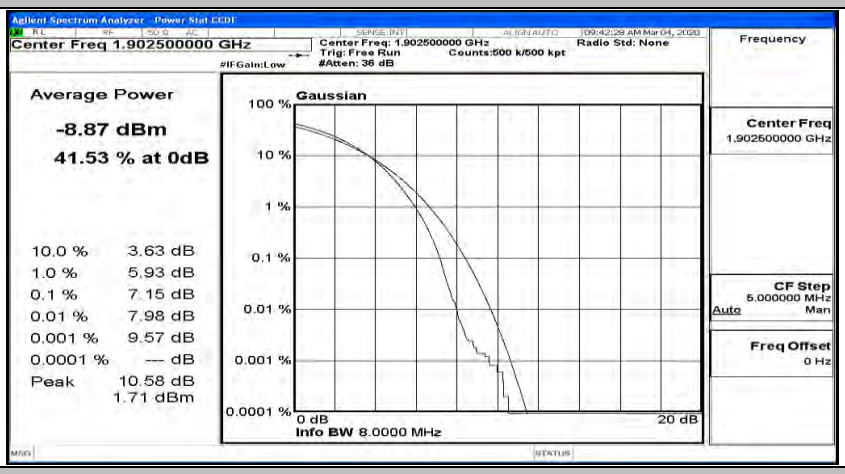
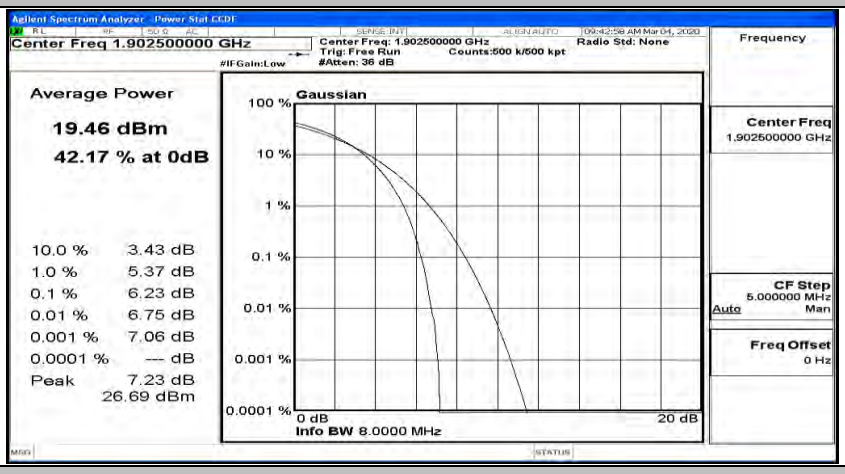


(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#0



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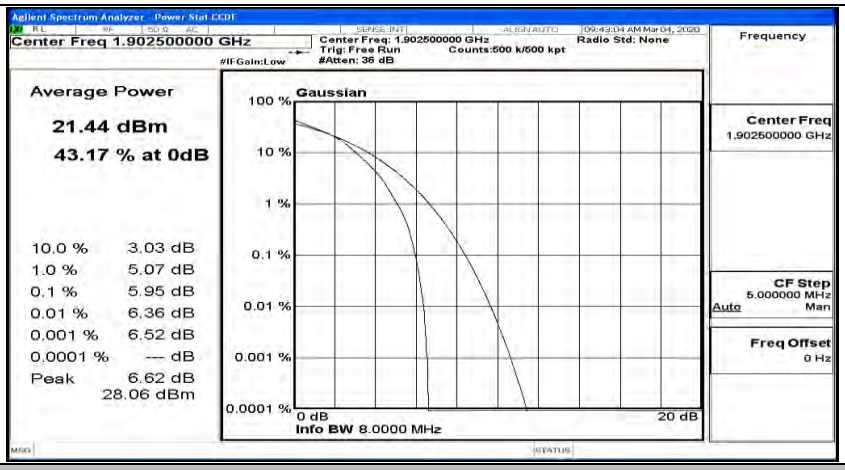
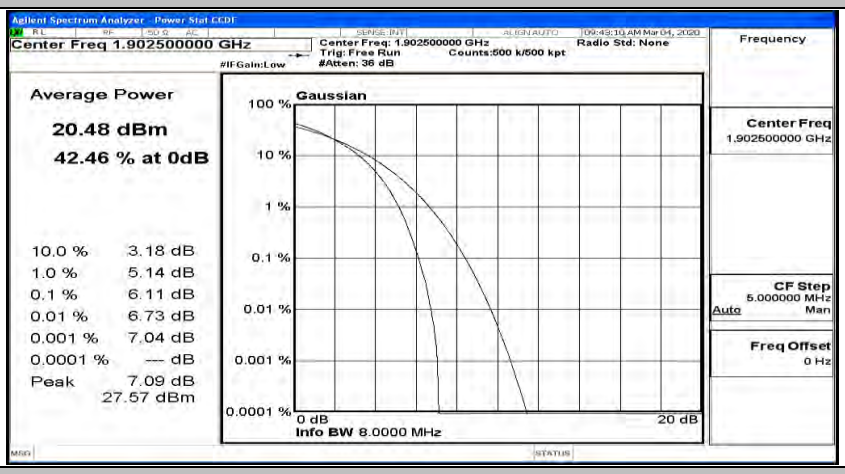


(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#38



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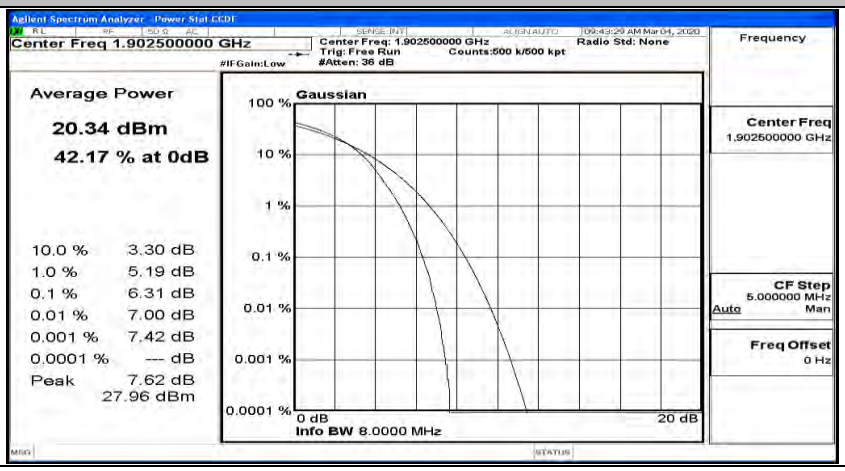
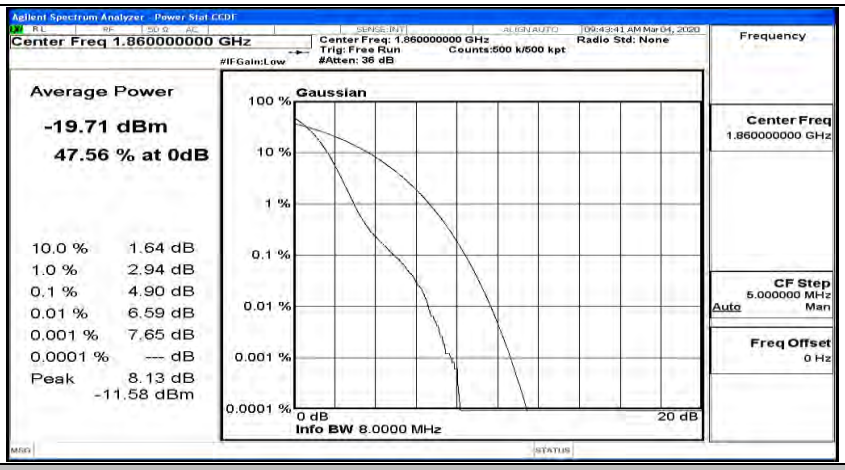
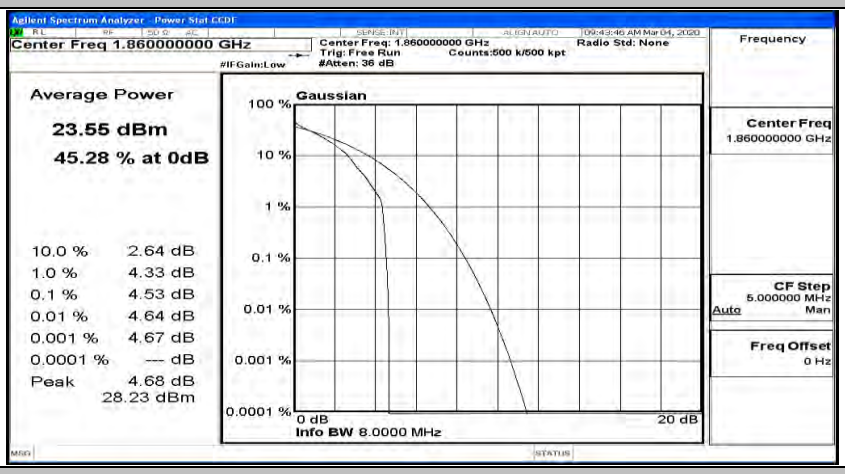


Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49



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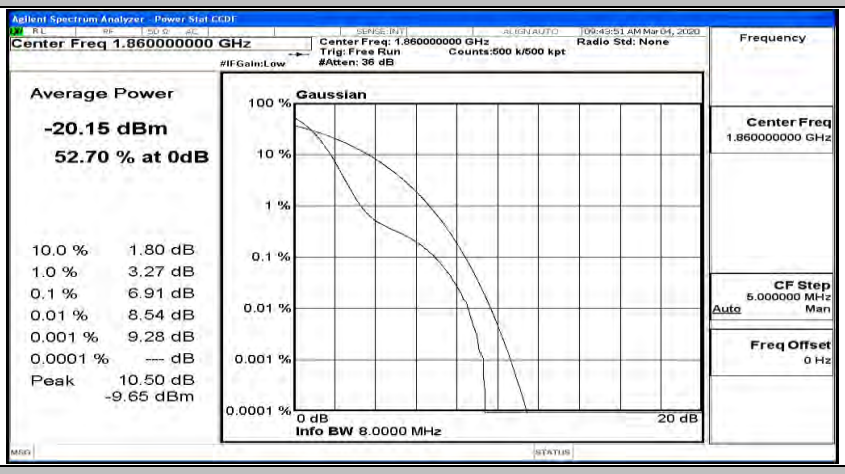

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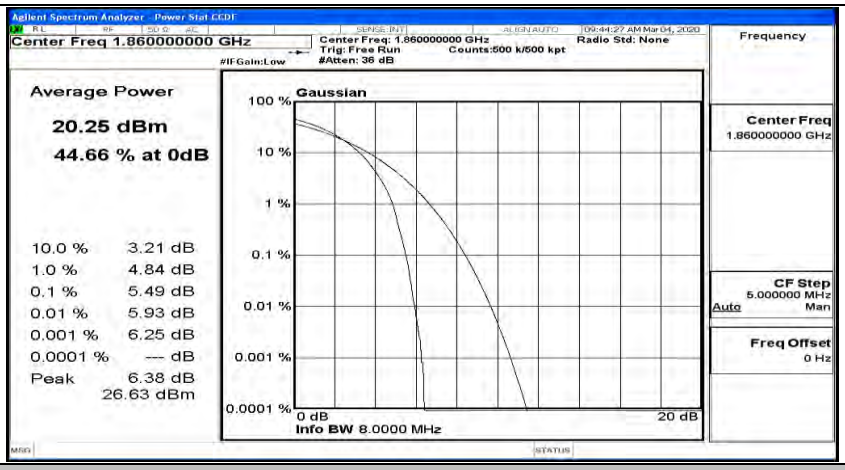

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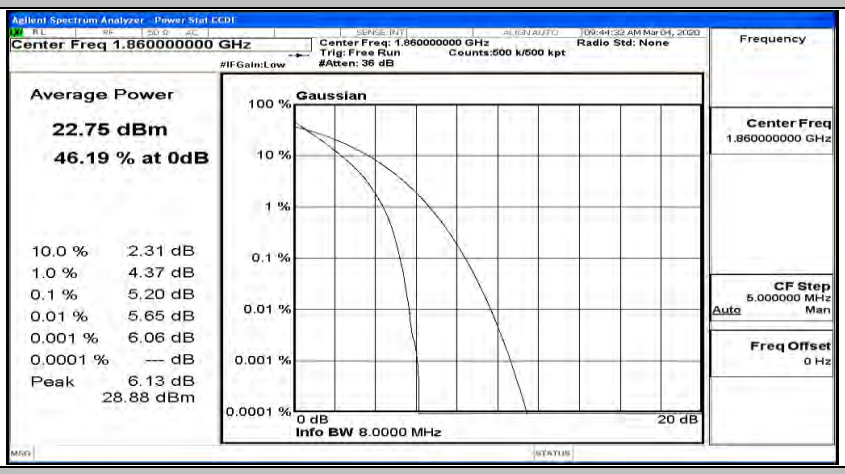

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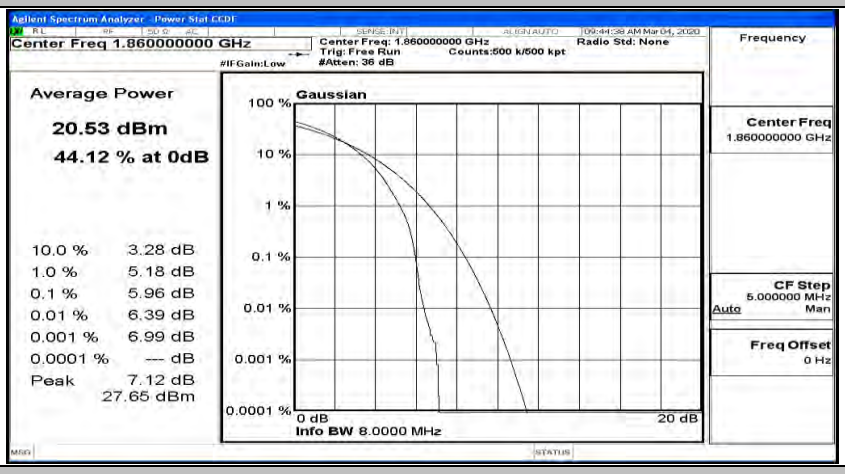

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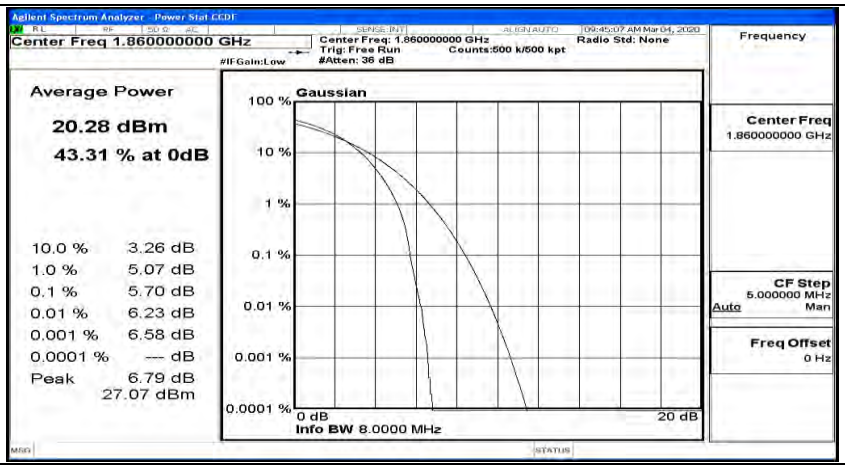

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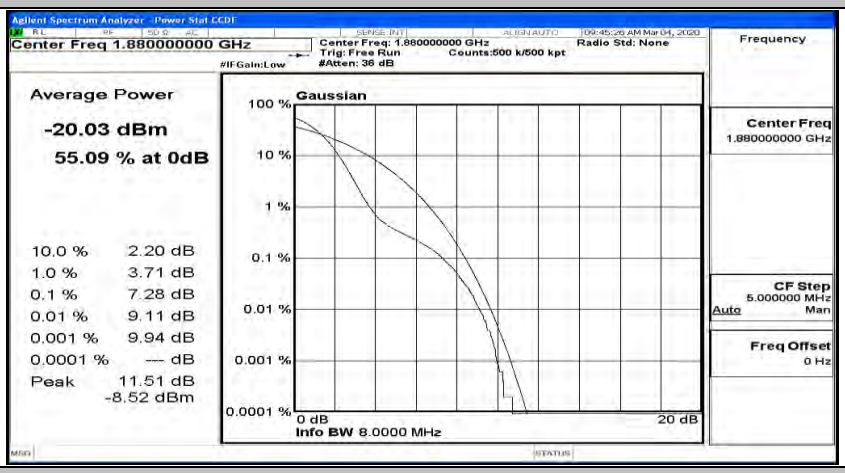

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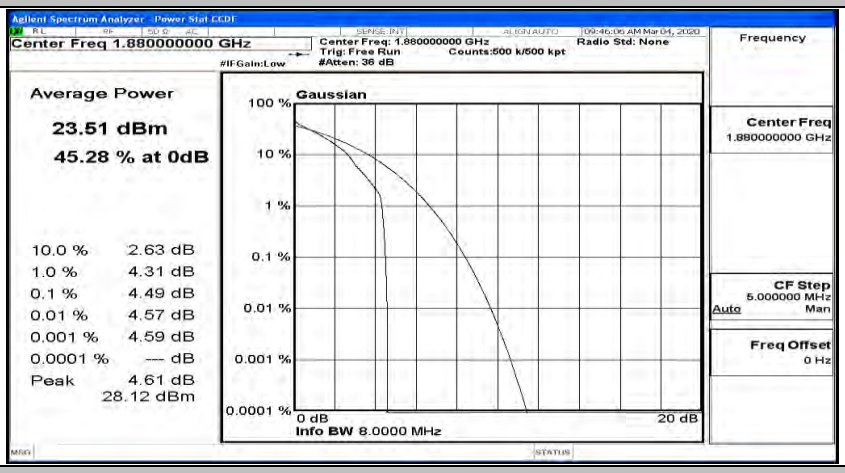

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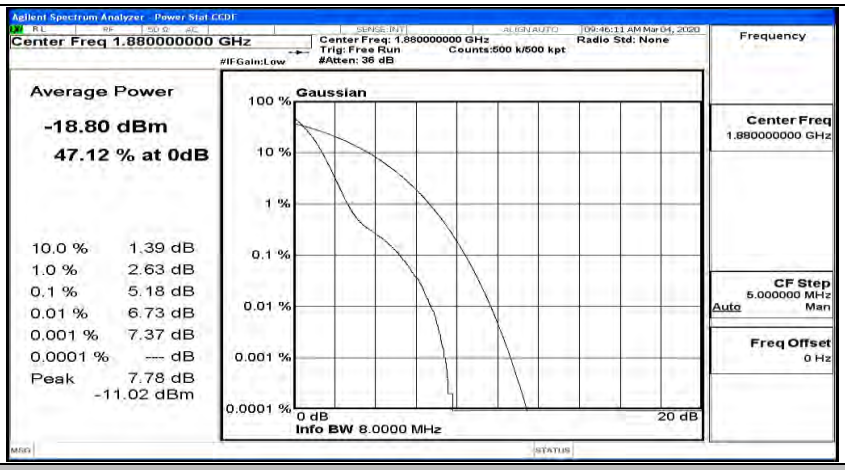

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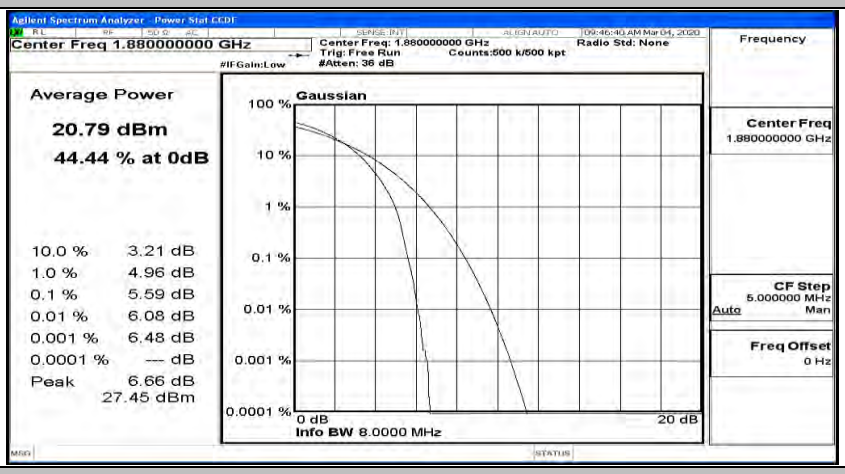

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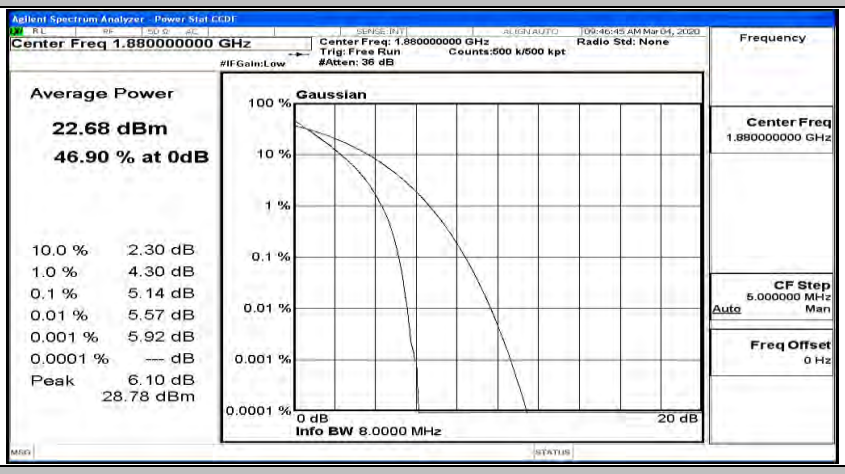

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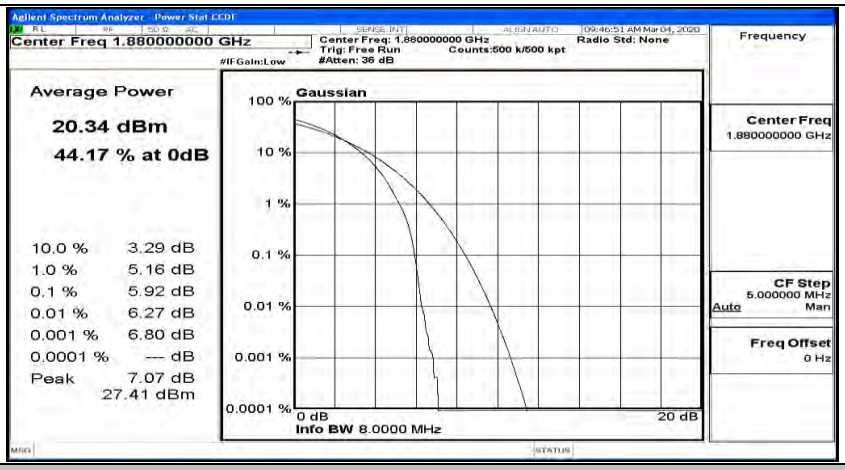

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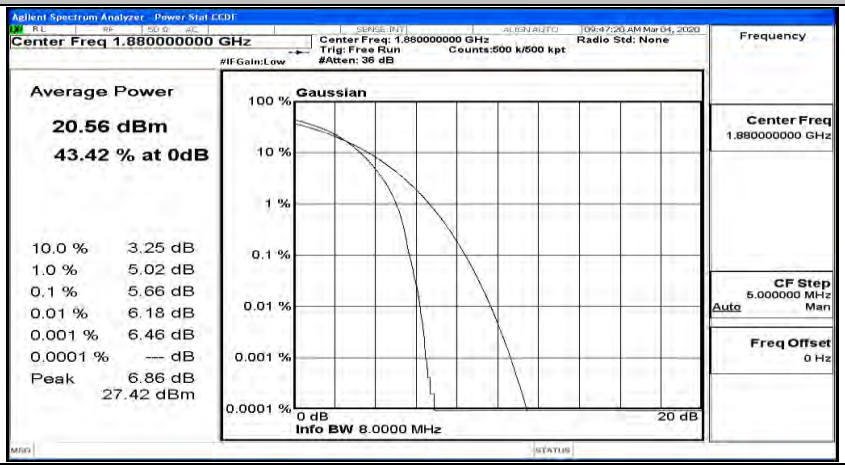

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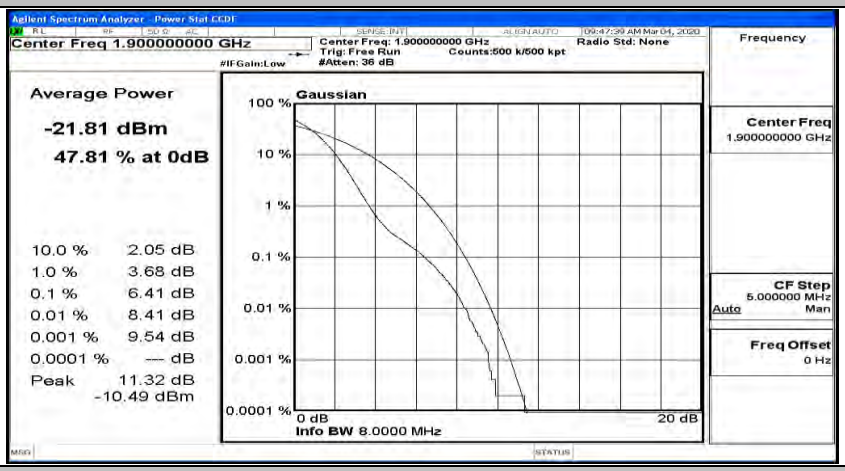

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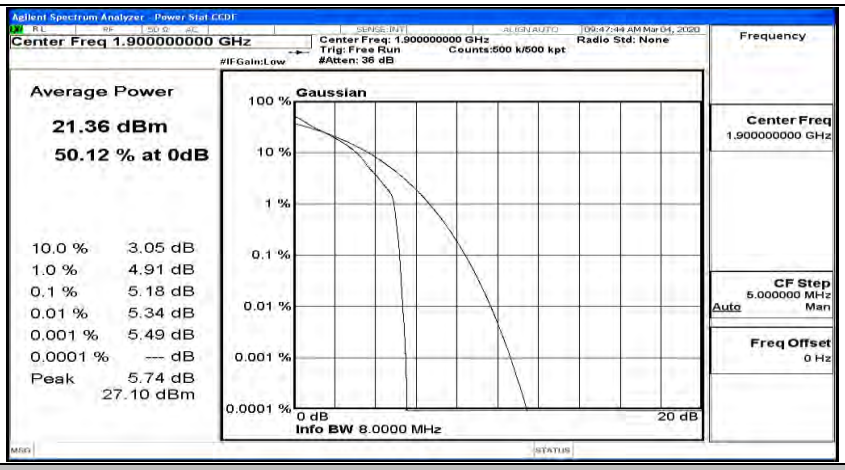
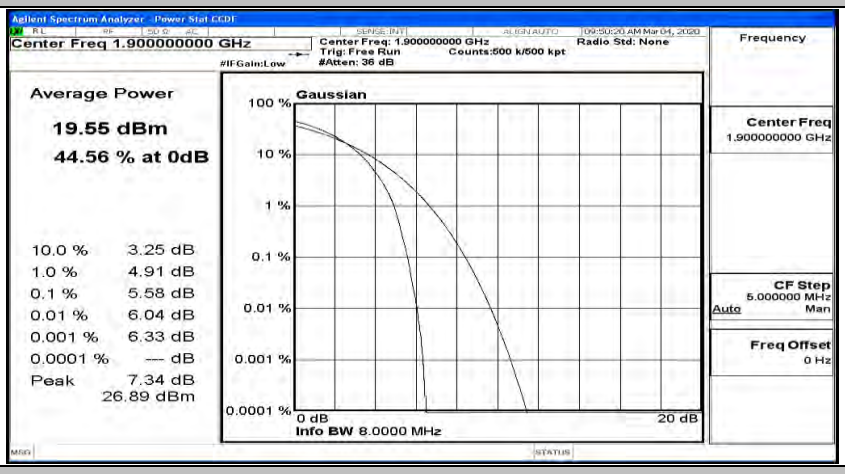


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#0



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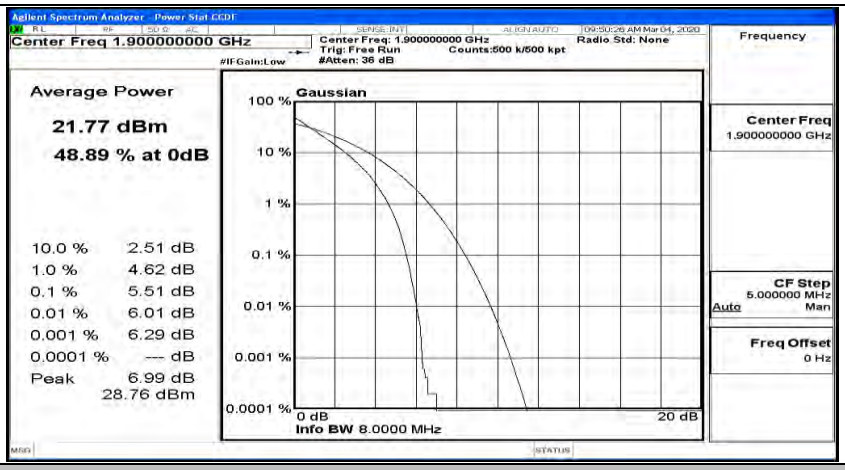
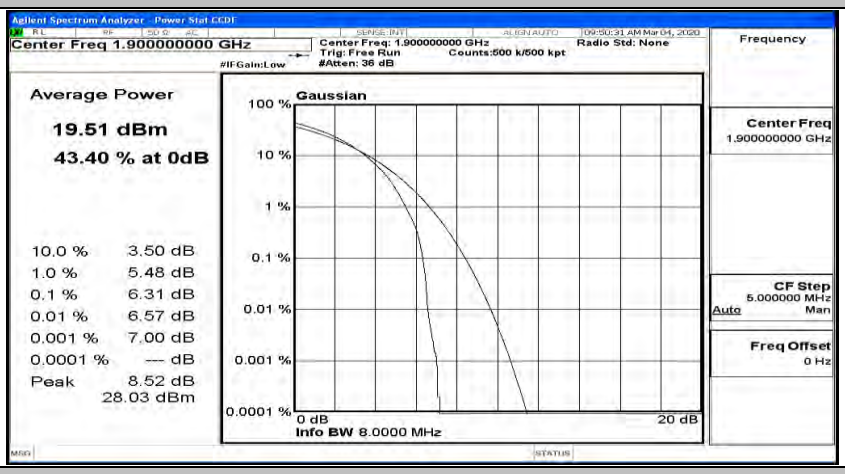
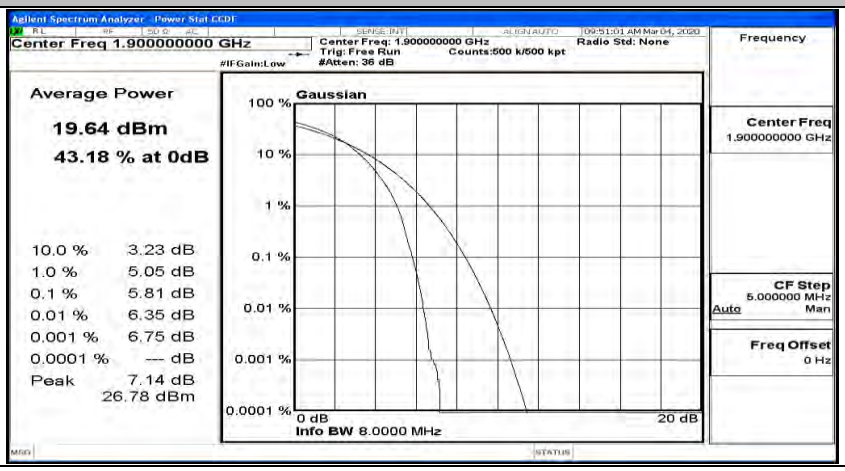


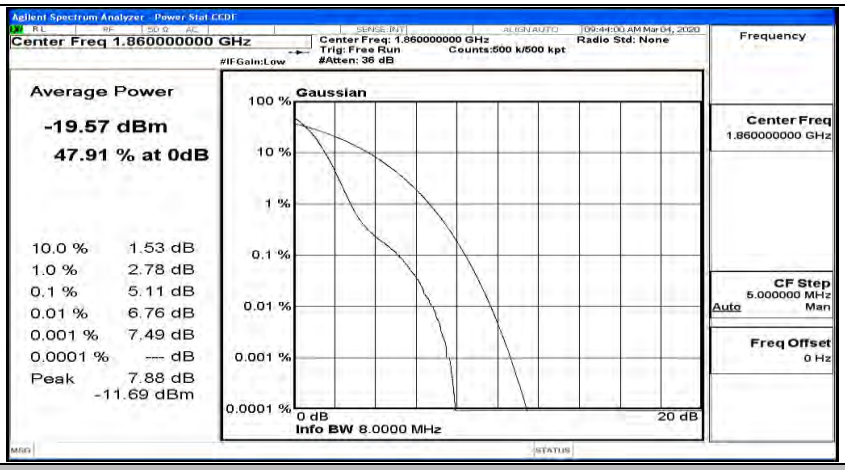
(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#50



(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0



(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



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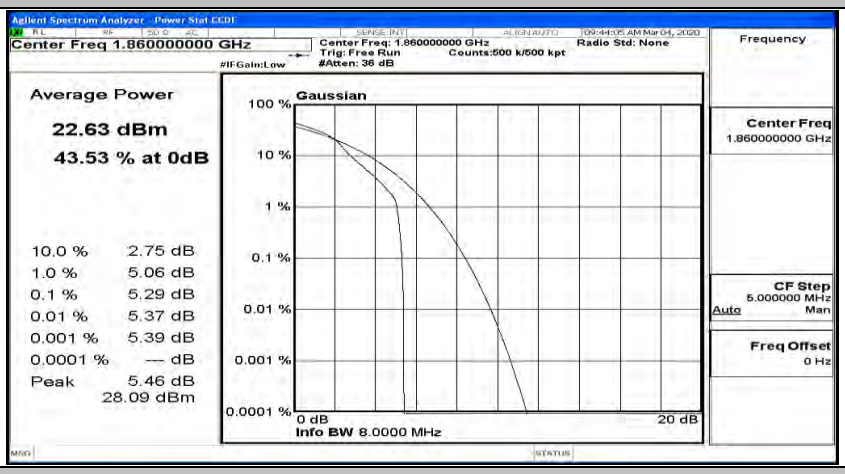
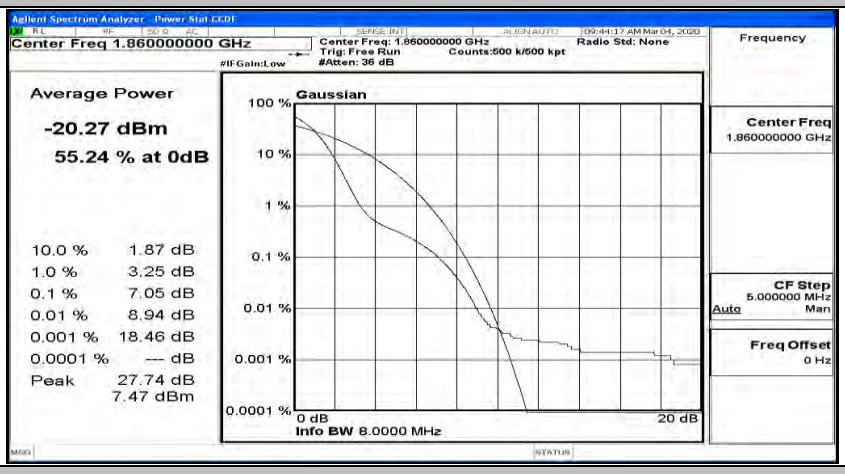
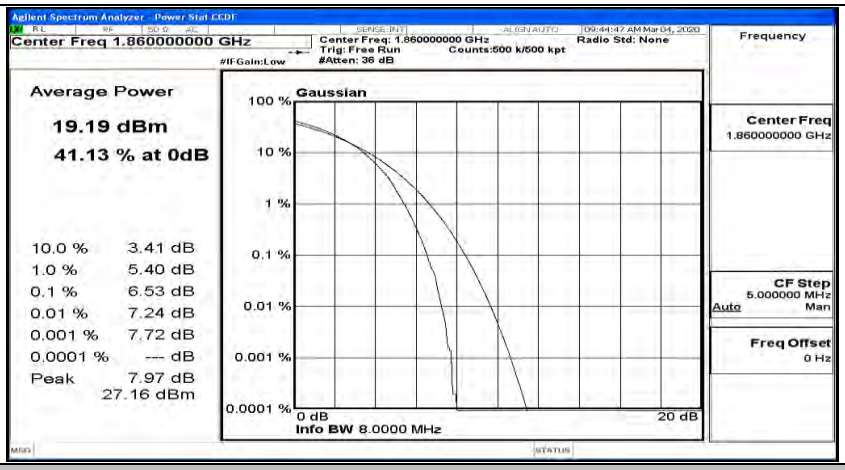


(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99



(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#0



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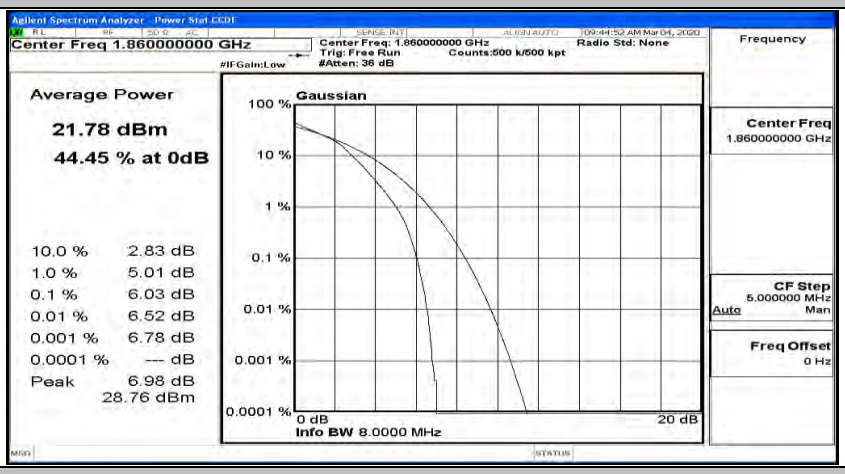

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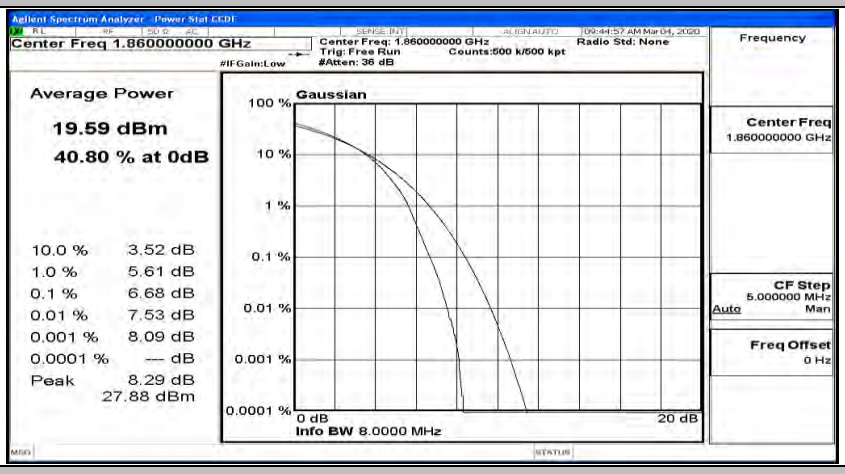
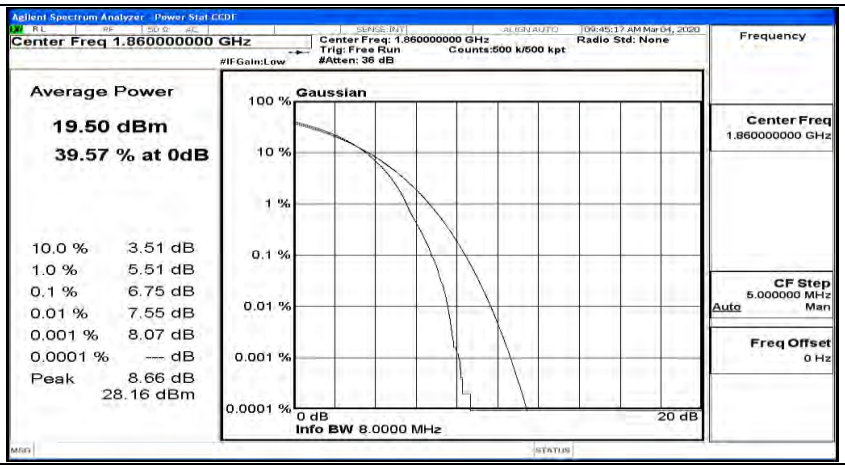
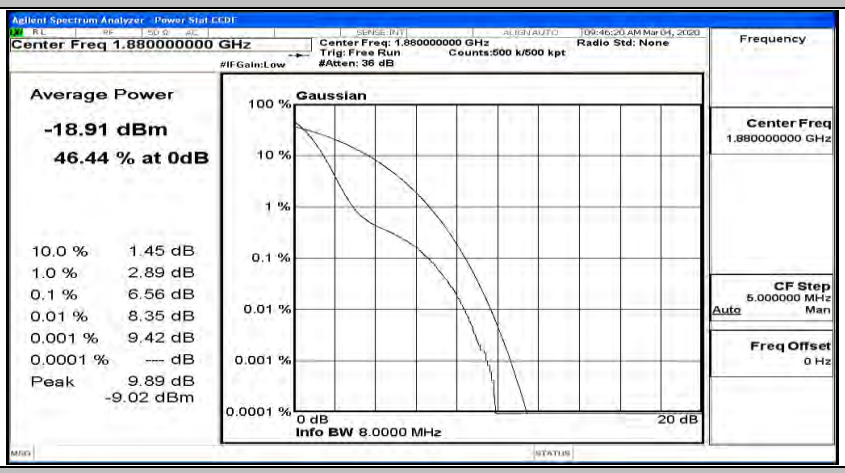


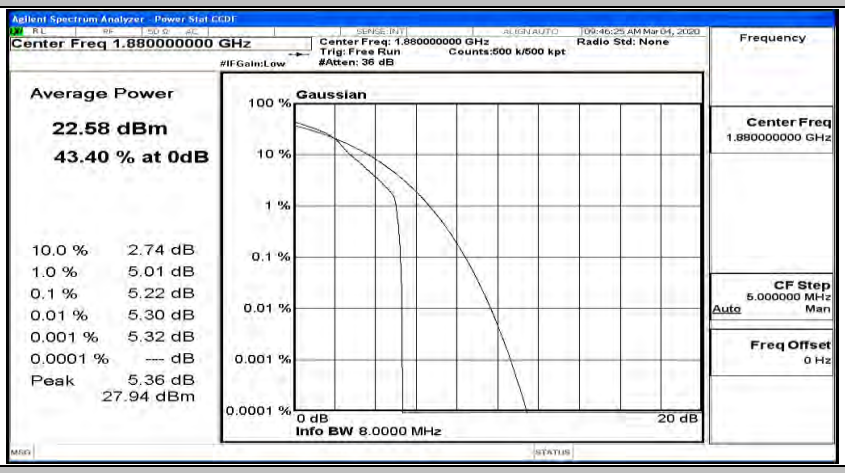
(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0



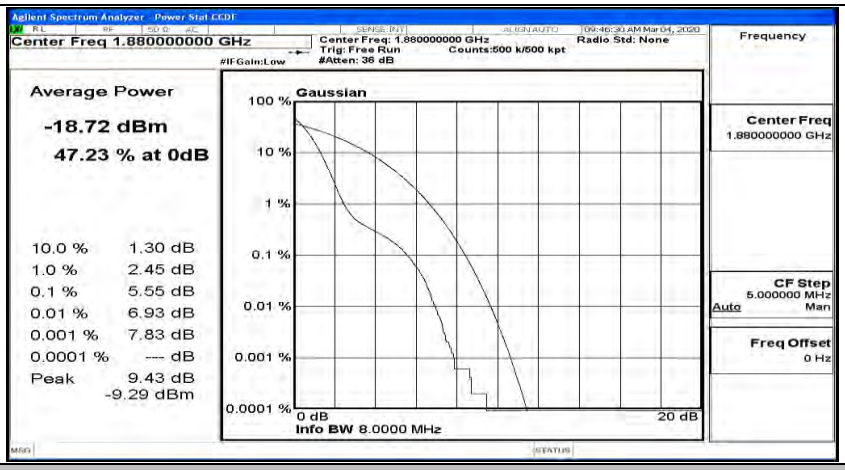
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0



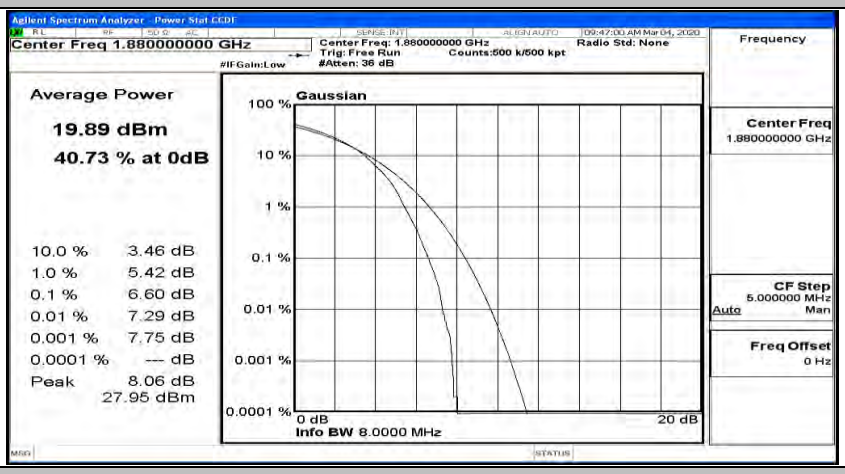
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49



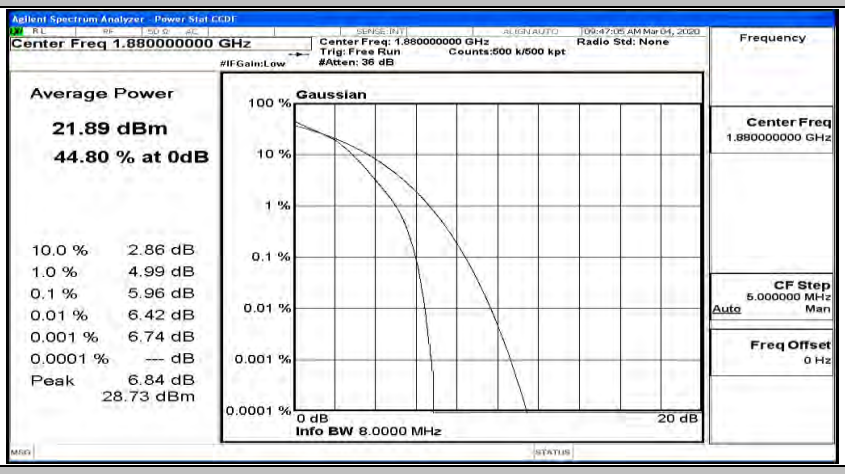
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99



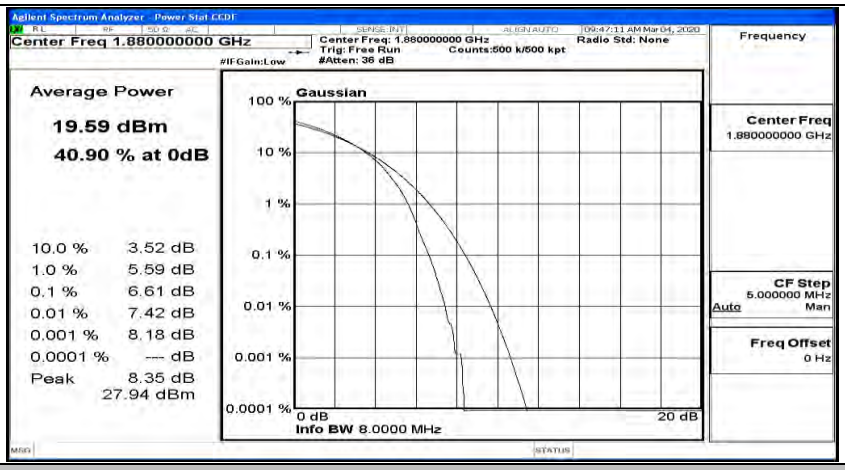
(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#0



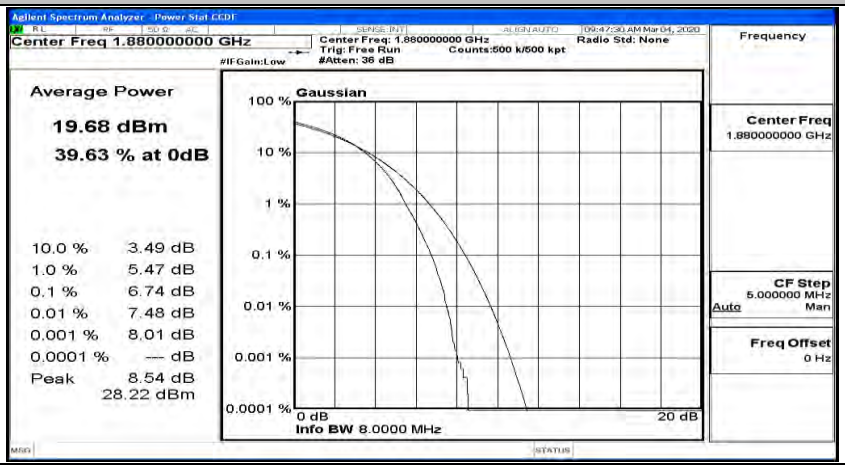
(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#25



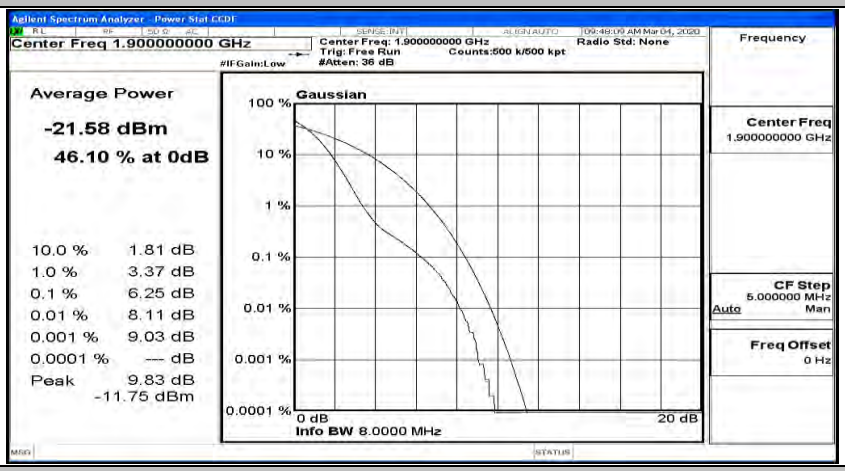
(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#50



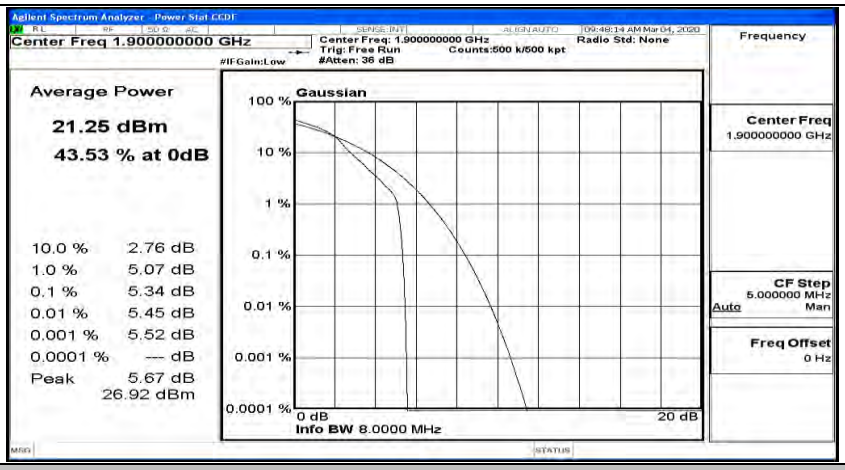
(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0

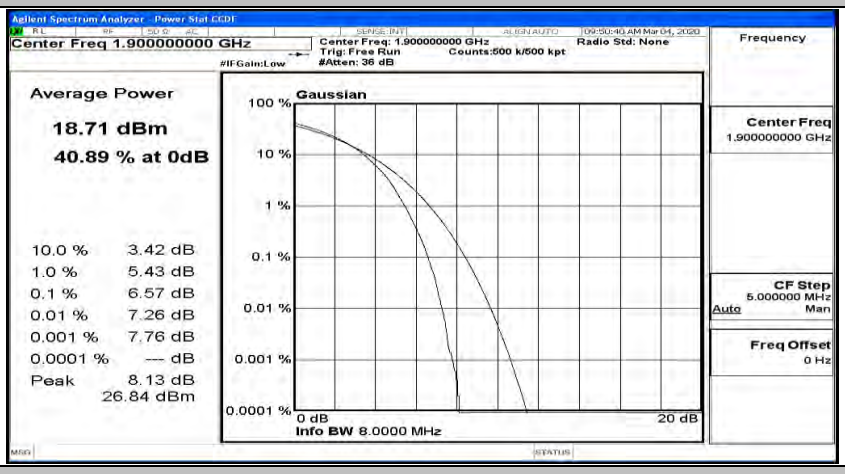


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49

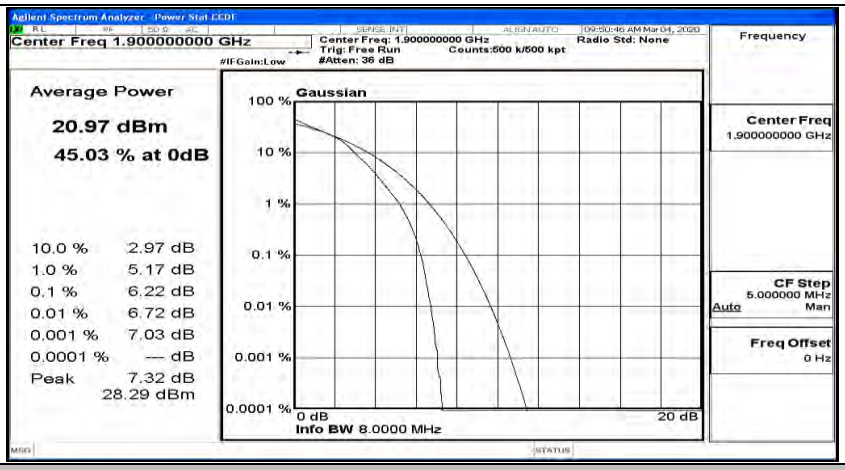


(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

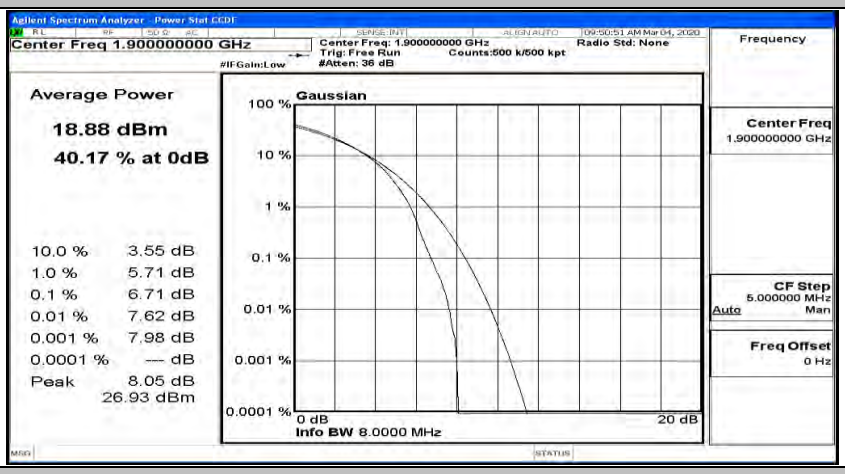
(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#0



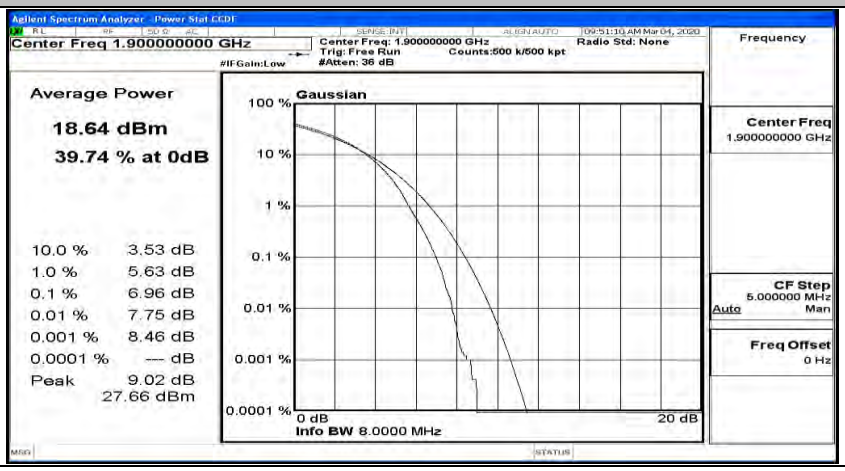
(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#25



(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#50



(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0



B.3: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.21706	0.3224	PASS
		1	3	0.24777	0.4199	PASS
		1	5	0.21929	0.3447	PASS
		3	0	0.55109	0.7101	PASS
		3	2	0.55764	0.7991	PASS
		3	3	0.54730	0.6843	PASS
		6	0	1.0771	1.239	PASS
	MCH	1	0	0.22007	0.3265	PASS
		1	3	0.24310	0.3728	PASS
		1	5	0.21308	0.3109	PASS
		3	0	0.55228	0.7102	PASS
		3	2	0.56082	0.7344	PASS
		3	3	0.55021	0.6872	PASS
		6	0	1.0770	1.230	PASS
	HCH	1	0	0.21623	0.3211	PASS
		1	3	0.24298	0.3943	PASS
		1	5	0.21783	0.3278	PASS
		3	0	0.55090	0.6960	PASS
		3	2	0.55785	0.7774	PASS
		3	3	0.54795	0.6829	PASS
		6	0	1.0756	1.238	PASS
16QAM	LCH	1	0	0.22792	0.3767	PASS
		1	3	0.24915	0.3827	PASS
		1	5	0.22451	0.3230	PASS
		3	0	0.55552	0.7112	PASS
		3	2	0.56386	0.8143	PASS
		3	3	0.55614	0.7147	PASS
		6	0	1.0812	1.250	PASS
	MCH	1	0	0.21155	0.3193	PASS
		1	3	0.25767	0.4084	PASS
		1	5	0.21550	0.3329	PASS

		3	0	0.55384	0.7122	PASS
		3	2	0.56161	0.8016	PASS
		3	3	0.55473	0.7222	PASS
		6	0	1.0783	1.247	PASS
	HCH	1	0	0.22888	0.3375	PASS
		1	3	0.24733	0.3923	PASS
		1	5	0.22275	0.3439	PASS
		3	0	0.55130	0.7292	PASS
		3	2	0.56487	0.7714	PASS
		3	3	0.55373	0.7169	PASS
		6	0	1.0808	1.237	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.23489	0.3609	PASS
		1	7	0.31458	0.5209	PASS
		1	14	0.23718	0.3415	PASS
		8	0	1.4485	1.677	PASS
		8	4	1.4500	1.786	PASS
		8	7	1.4439	1.639	PASS
		15	0	2.6846	2.901	PASS
	MCH	1	0	0.24397	0.3544	PASS
		1	7	0.32585	0.5083	PASS
		1	14	0.23732	0.3411	PASS
		8	0	1.4478	1.649	PASS
		8	4	1.4510	1.802	PASS
		8	7	1.4489	1.659	PASS
		15	0	2.6824	2.889	PASS
	HCH	1	0	0.23981	0.3356	PASS
		1	7	0.30943	0.4860	PASS
		1	14	0.23692	0.3679	PASS
		8	0	1.4452	1.656	PASS
		8	4	1.4464	1.828	PASS
		8	7	1.4478	1.661	PASS
		15	0	2.6816	2.889	PASS
16QAM	LCH	1	0	0.23515	0.3541	PASS

		1	7	0.33385	0.5562	PASS
		1	14	0.24001	0.3596	PASS
		8	0	1.4438	1.640	PASS
		8	4	1.4542	1.825	PASS
		8	7	1.4448	1.718	PASS
		15	0	2.6823	2.879	PASS
	MCH	1	0	0.24180	0.3517	PASS
		1	7	0.32390	0.5364	PASS
		1	14	0.23748	0.3636	PASS
		8	0	1.4472	1.690	PASS
		8	4	1.4487	1.791	PASS
		8	7	1.4513	1.657	PASS
		15	0	2.6876	2.890	PASS
	HCH	1	0	0.23536	0.3524	PASS
		1	7	0.31845	0.4609	PASS
		1	14	0.23556	0.3364	PASS
		8	0	1.4444	1.677	PASS
		8	4	1.4508	1.849	PASS
		8	7	1.4469	1.653	PASS
		15	0	2.6817	2.885	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.29392	0.4731	PASS
		1	12	0.36353	0.6002	PASS
		1	24	0.28498	0.4278	PASS
		12	0	2.1750	2.587	PASS
		12	6	2.1764	2.596	PASS
		12	13	2.1760	2.477	PASS
		25	0	4.4673	4.821	PASS
	MCH	1	0	0.28204	0.4342	PASS
		1	12	0.37155	0.5621	PASS
		1	24	0.28883	0.4350	PASS
		12	0	2.1766	2.486	PASS
		12	6	2.1810	2.652	PASS
		12	13	2.1725	2.545	PASS
		25	0	4.4706	4.781	PASS

	HCH	1	0	0.28531	0.4651	PASS
		1	12	0.39011	0.5939	PASS
		1	24	0.29275	0.4699	PASS
		12	0	2.1745	2.557	PASS
		12	6	2.1822	2.735	PASS
		12	13	2.1739	2.582	PASS
		25	0	4.4616	4.805	PASS
16QAM	LCH	1	0	0.28823	0.4480	PASS
		1	12	0.40222	0.6245	PASS
		1	24	0.30626	0.4569	PASS
		12	0	2.1800	2.535	PASS
		12	6	2.1795	2.703	PASS
		12	13	2.1751	2.525	PASS
		25	0	4.4739	4.801	PASS
	MCH	1	0	0.28755	0.4490	PASS
		1	12	0.39754	0.5911	PASS
		1	24	0.28553	0.4536	PASS
		12	0	2.1741	2.556	PASS
		12	6	2.1743	2.638	PASS
		12	13	2.1700	2.539	PASS
		25	0	4.4607	4.836	PASS
	HCH	1	0	0.29782	0.4631	PASS
		1	12	0.41822	0.6085	PASS
		1	24	0.29227	0.4677	PASS
		12	0	2.1764	2.529	PASS
		12	6	2.1817	2.730	PASS
		12	13	2.1743	2.547	PASS
		25	0	4.4729	4.785	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.39298	0.5443	PASS
		1	25	0.45391	0.7197	PASS
		1	49	0.38637	0.5581	PASS
		25	0	4.5140	4.892	PASS
		25	12	4.5190	5.053	PASS
		25	25	4.5225	4.950	PASS
		50	0	8.9163	9.402	PASS
	MCH	1	0	0.38696	0.5731	PASS

		1	25	0.46988	0.7548	PASS
		1	49	0.39228	0.5746	PASS
		25	0	4.5204	4.982	PASS
		25	12	4.5104	4.987	PASS
		25	25	4.5124	4.986	PASS
		50	0	8.9298	9.432	PASS
	HCH	1	0	0.38702	0.5915	PASS
		1	25	0.46125	0.6935	PASS
		1	49	0.38580	0.5517	PASS
		25	0	4.5129	4.957	PASS
		25	12	4.5104	5.033	PASS
		25	25	4.4961	4.945	PASS
		50	0	8.8878	9.403	PASS
16QAM	LCH	1	0	0.38674	0.5727	PASS
		1	25	0.43575	0.6438	PASS
		1	49	0.38539	0.5538	PASS
		25	0	4.5097	4.901	PASS
		25	12	4.5067	5.101	PASS
		25	25	4.5110	4.927	PASS
		50	0	8.9231	9.370	PASS
	MCH	1	0	0.38670	0.5740	PASS
		1	25	0.46733	0.7705	PASS
		1	49	0.38730	0.5221	PASS
		25	0	4.5093	4.947	PASS
		25	12	4.5096	5.042	PASS
		25	25	4.5062	4.894	PASS
		50	0	8.9296	9.400	PASS
	HCH	1	0	0.38682	0.5616	PASS
		1	25	0.47243	0.6884	PASS
		1	49	0.38893	0.5826	PASS
		25	0	4.5031	4.927	PASS
		25	12	4.5010	4.919	PASS
		25	25	4.4923	4.906	PASS
		50	0	8.8952	9.433	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.49240	0.7016	PASS

		1	37	0.58489	0.8256	PASS
		1	74	0.48691	0.7021	PASS
		37	0	6.4772	7.087	PASS
		37	18	6.4884	7.381	PASS
		37	38	6.4893	7.060	PASS
		75	0	13.376	14.03	PASS
	MCH	1	0	0.49827	0.7531	PASS
		1	37	0.57788	0.8593	PASS
		1	74	0.48473	0.7172	PASS
		37	0	6.4818	7.022	PASS
		37	18	6.4779	7.227	PASS
		37	38	6.4920	7.147	PASS
		75	0	13.353	13.98	PASS
	HCH	1	0	0.49482	0.7614	PASS
		1	37	0.58042	0.8047	PASS
		1	74	0.48820	0.7301	PASS
		37	0	6.5002	7.030	PASS
		37	18	6.4979	7.155	PASS
		37	38	6.4735	7.029	PASS
		75	0	13.377	13.96	PASS
16QAM	LCH	1	0	0.48646	0.7456	PASS
		1	37	0.57969	0.7956	PASS
		1	74	0.49190	0.7731	PASS
		37	0	6.4928	7.078	PASS
		37	18	6.4982	7.483	PASS
		37	38	6.4926	7.129	PASS
		75	0	13.373	14.03	PASS
	MCH	1	0	0.49503	0.7069	PASS
		1	37	0.56628	0.8756	PASS
		1	74	0.49066	0.7280	PASS
		37	0	6.4942	7.082	PASS
		37	18	6.4892	7.293	PASS
		37	38	6.4866	7.114	PASS
		75	0	13.369	13.99	PASS
	HCH	1	0	0.50588	0.7262	PASS
		1	37	0.57642	0.8504	PASS
		1	74	0.51016	0.7986	PASS
		37	0	6.4829	7.100	PASS
		37	18	6.4936	7.318	PASS
		37	38	6.4767	7.075	PASS
		75	0	13.369	13.96	PASS

Channel Bandwidth: 20 MHz

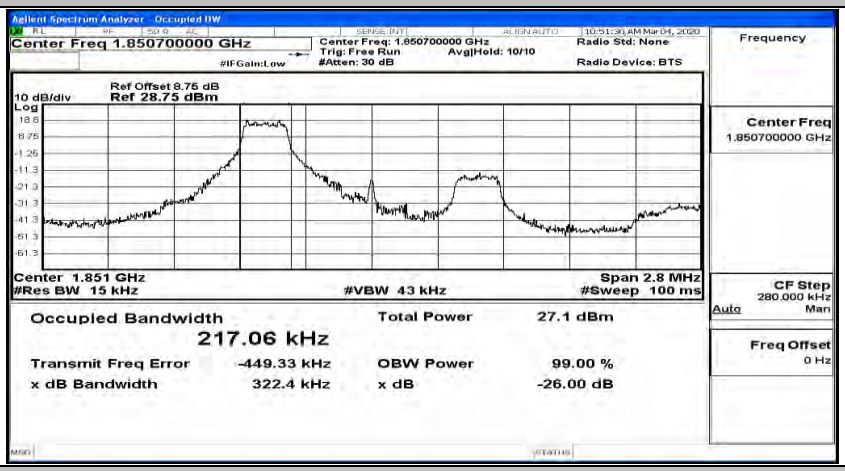
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.57157	0.8612	PASS
		1	50	0.62987	0.8852	PASS
		1	99	0.58185	0.8243	PASS
		50	0	8.9904	9.733	PASS
		50	25	8.9960	9.843	PASS
		50	50	8.9862	9.661	PASS
		100	0	17.815	18.61	PASS
	MCH	1	0	0.57534	0.8294	PASS
		1	50	0.63846	0.9181	PASS
		1	99	0.56518	0.8284	PASS
		50	0	8.9951	9.596	PASS
		50	25	8.9811	9.882	PASS
		50	50	8.9856	9.687	PASS
		100	0	17.806	18.57	PASS
	HCH	1	0	0.56766	0.8429	PASS
		1	50	0.62572	0.9115	PASS
		1	99	0.59397	0.8321	PASS
		50	0	9.0025	9.633	PASS
		50	25	8.9958	9.740	PASS
		50	50	8.9607	9.534	PASS
		100	0	17.844	18.59	PASS
16QAM	LCH	1	0	0.58982	0.8113	PASS
		1	50	0.64920	0.9219	PASS
		1	99	0.56255	0.7851	PASS
		50	0	8.9943	9.585	PASS
		50	25	8.9997	9.841	PASS
		50	50	8.9848	9.583	PASS
		100	0	17.832	18.62	PASS
	MCH	1	0	0.58543	0.8336	PASS
		1	50	0.64163	0.9020	PASS
		1	99	0.58198	0.8288	PASS
		50	0	8.9796	9.612	PASS
		50	25	8.9828	9.757	PASS
		50	50	8.9783	9.576	PASS
		100	0	17.789	18.54	PASS
	HCH	1	0	0.58510	0.8635	PASS

		1	50	0.62819	0.8014	PASS
		1	99	0.56370	0.8088	PASS
		50	0	8.9818	9.624	PASS
		50	25	8.9890	9.796	PASS
		50	50	8.9610	9.705	PASS
		100	0	17.832	18.61	PASS

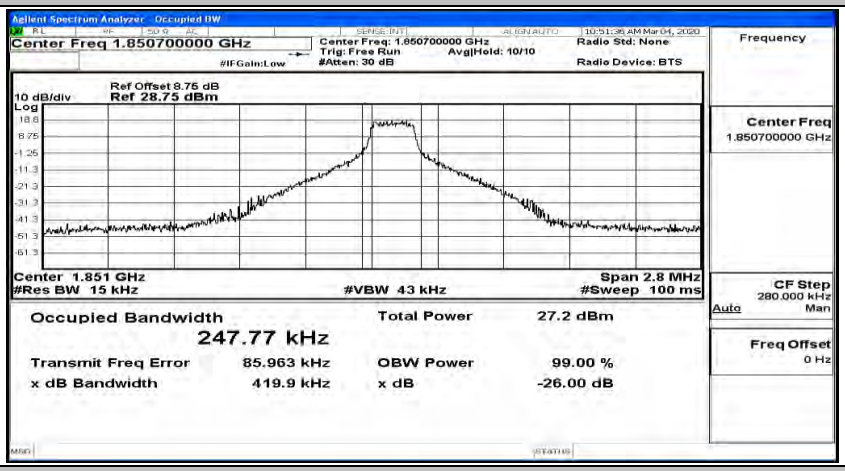
Test Graphs

Channel Bandwidth: 1.4 MHz

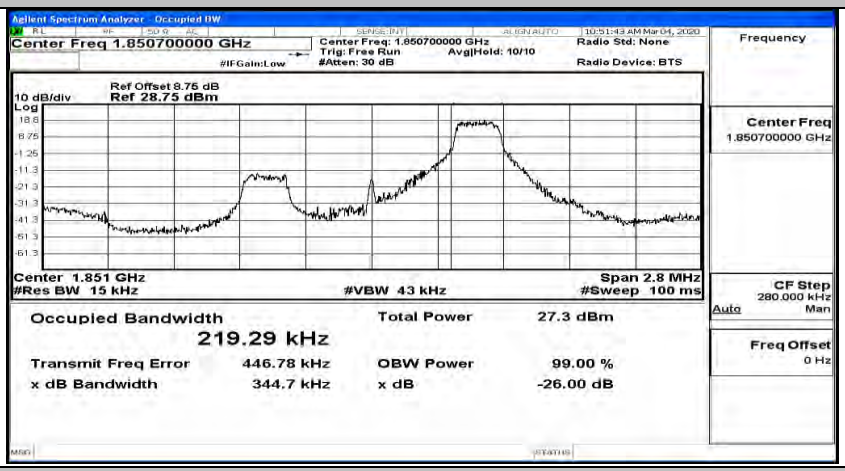
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



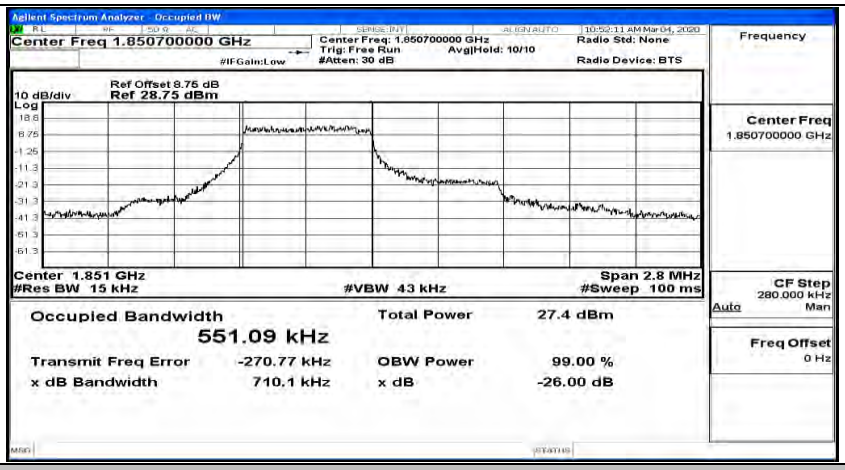
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



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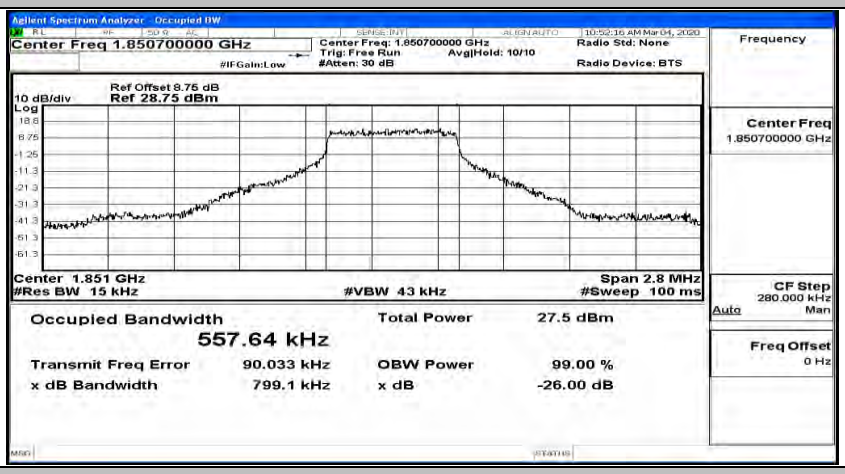

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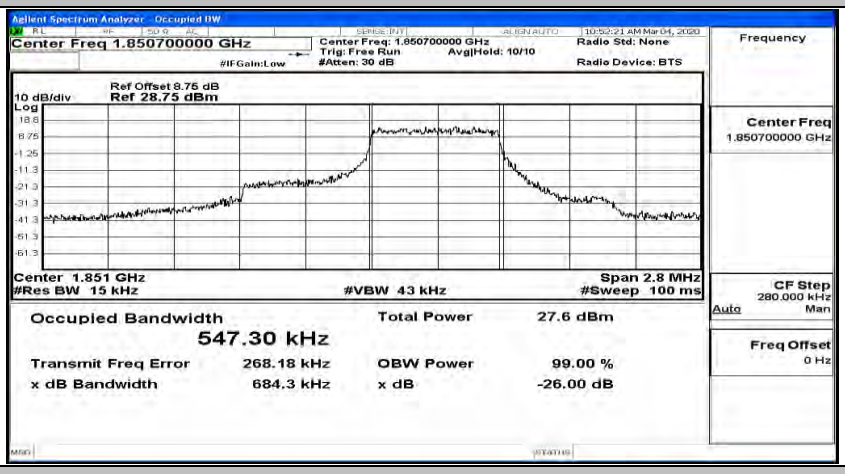

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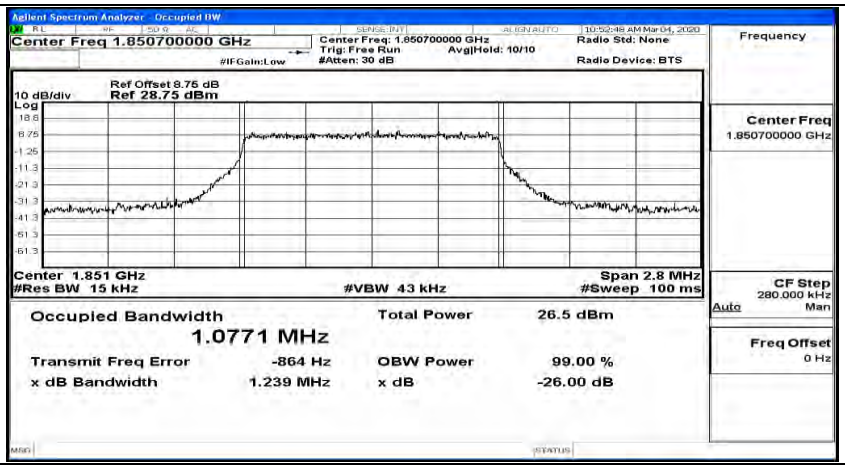

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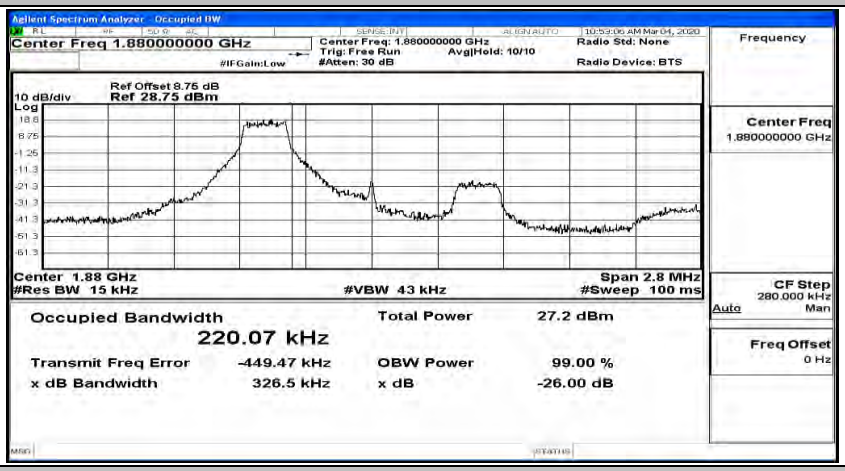

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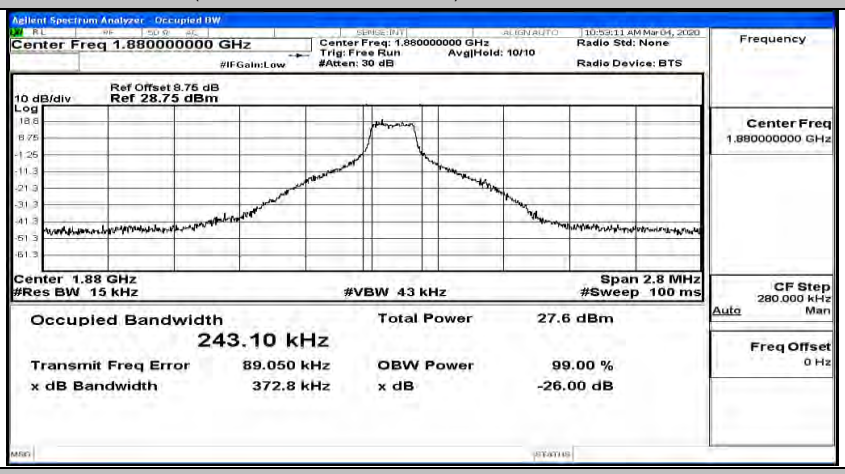

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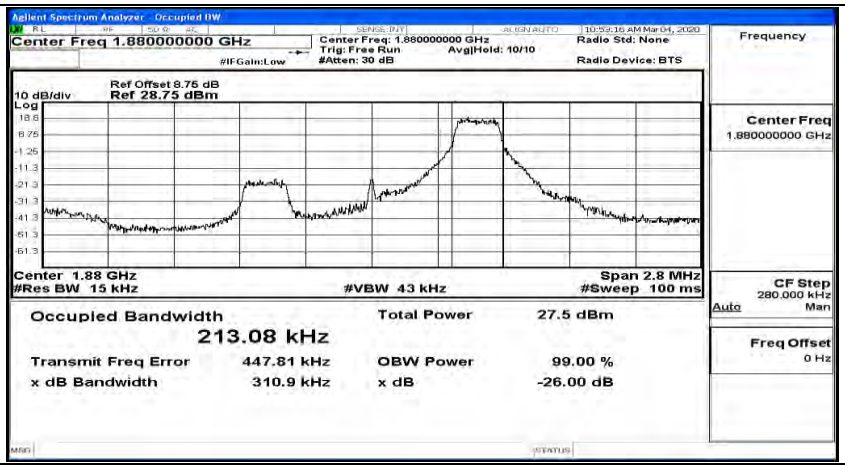

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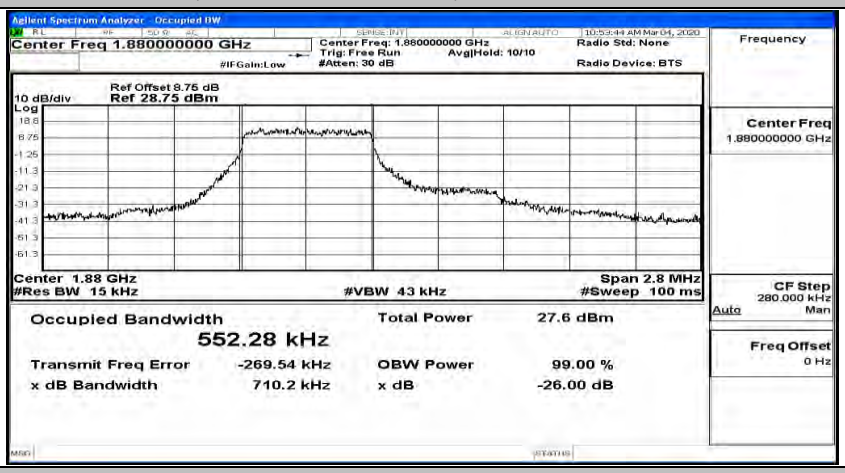

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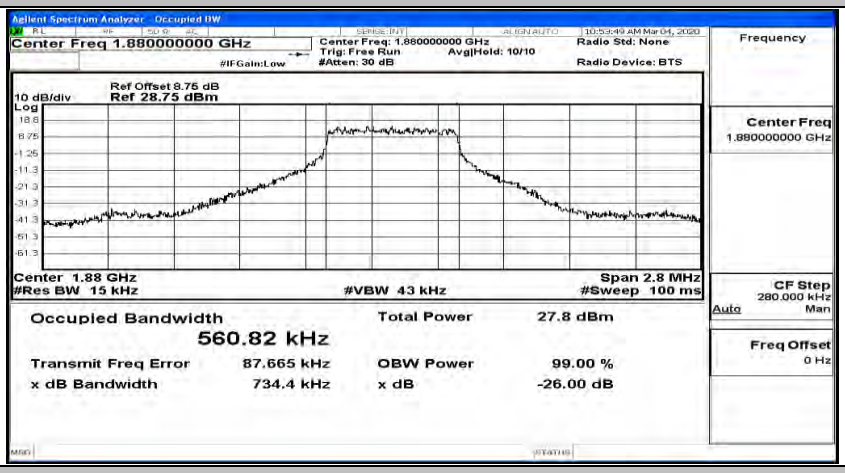

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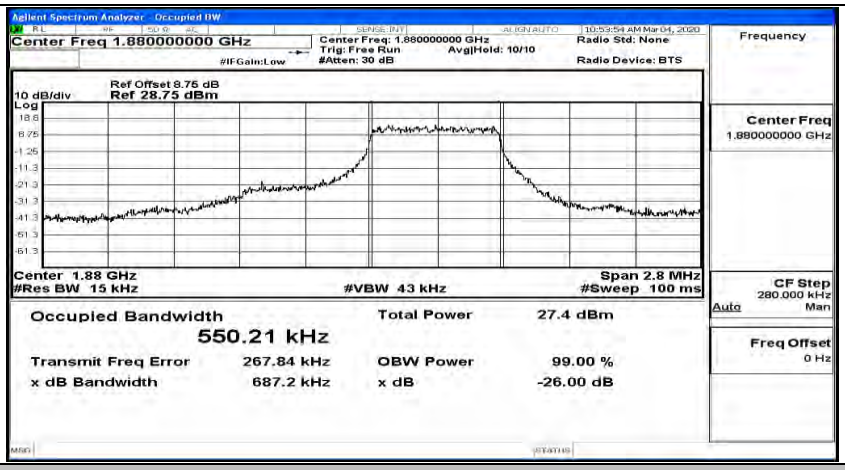

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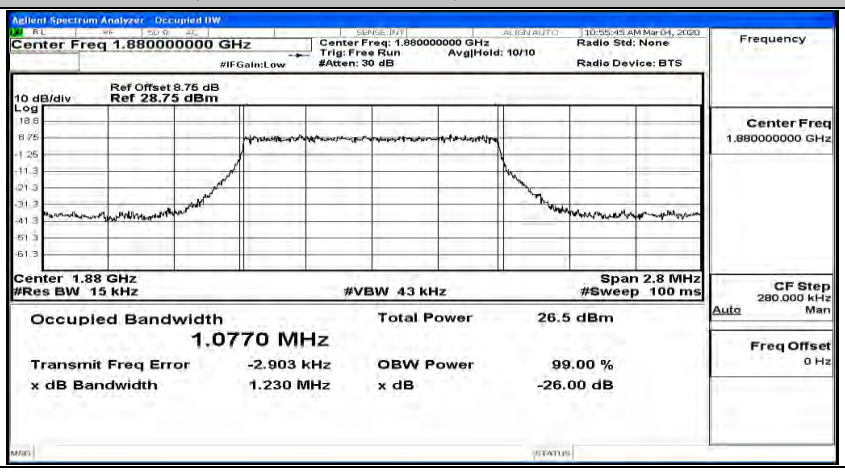
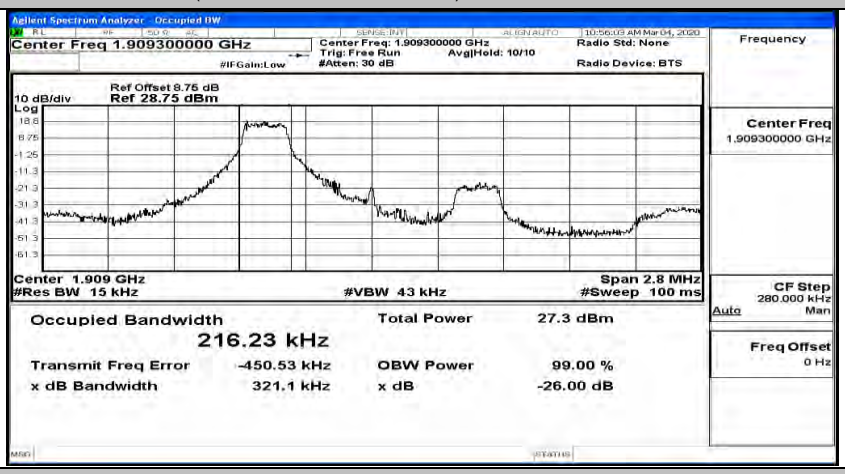


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



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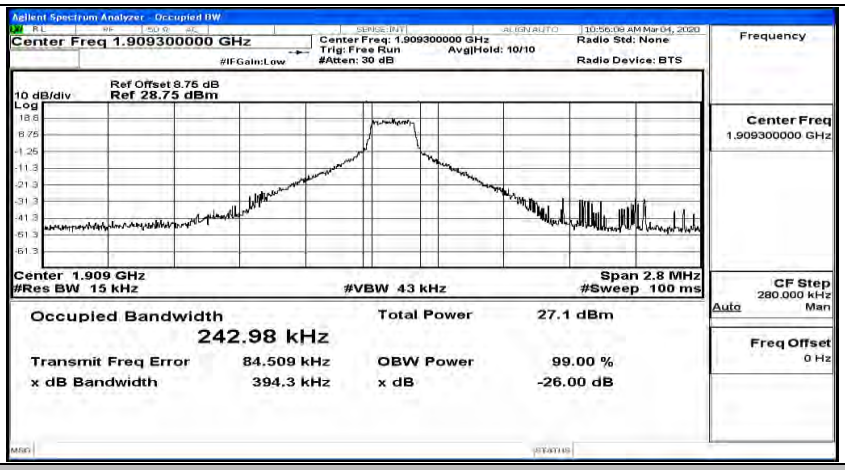

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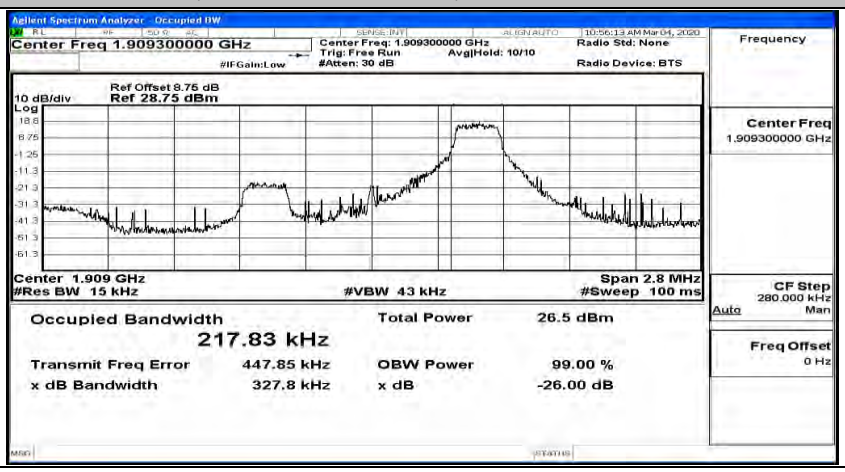
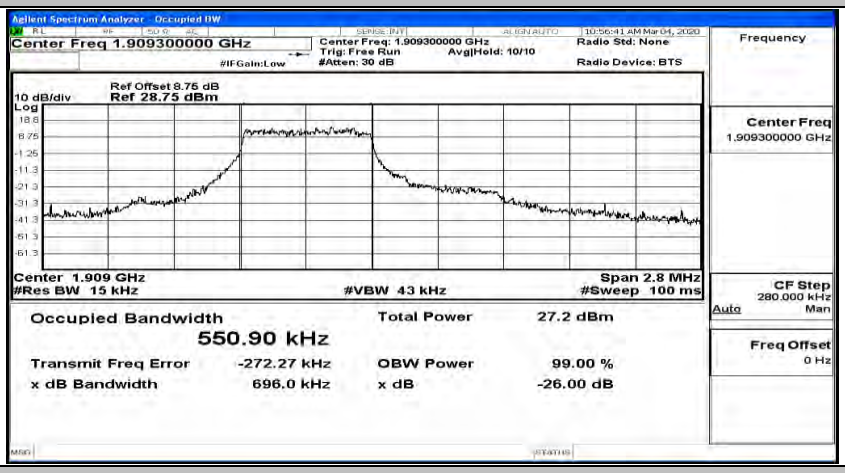


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



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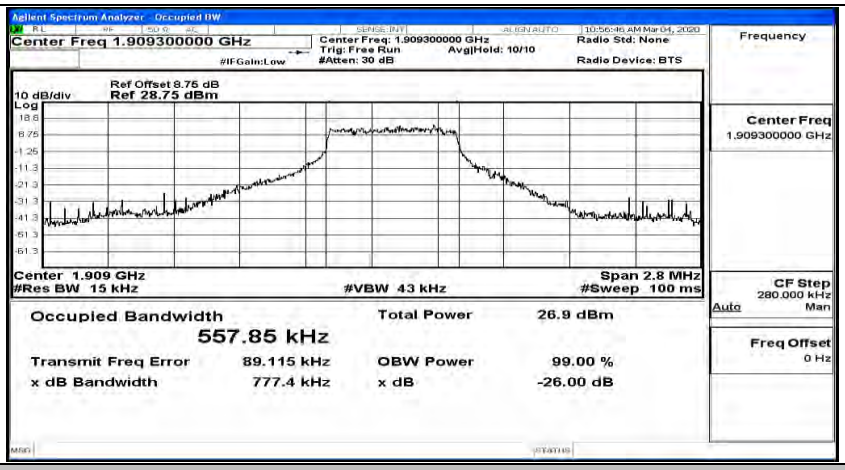

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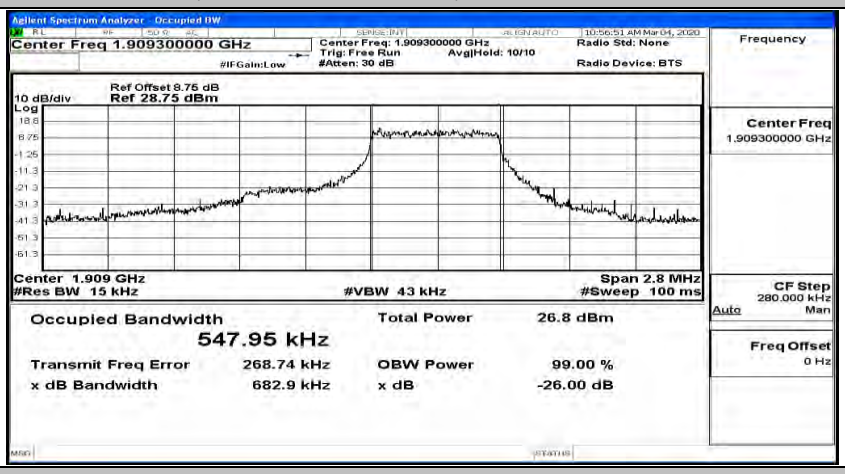
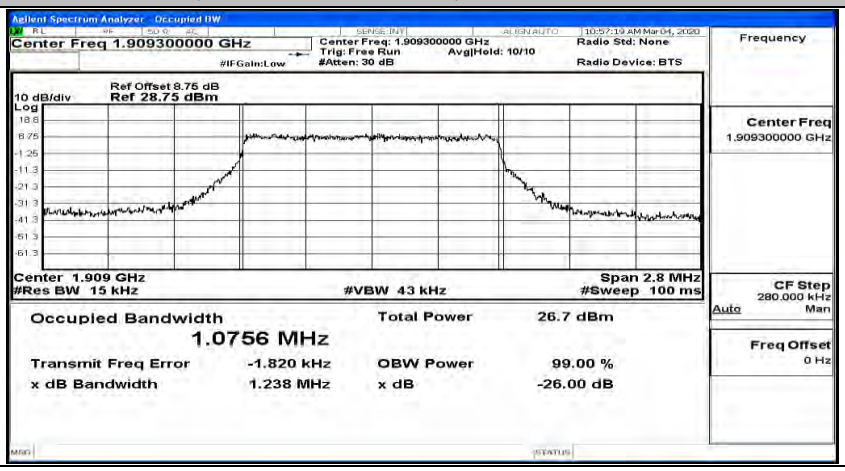
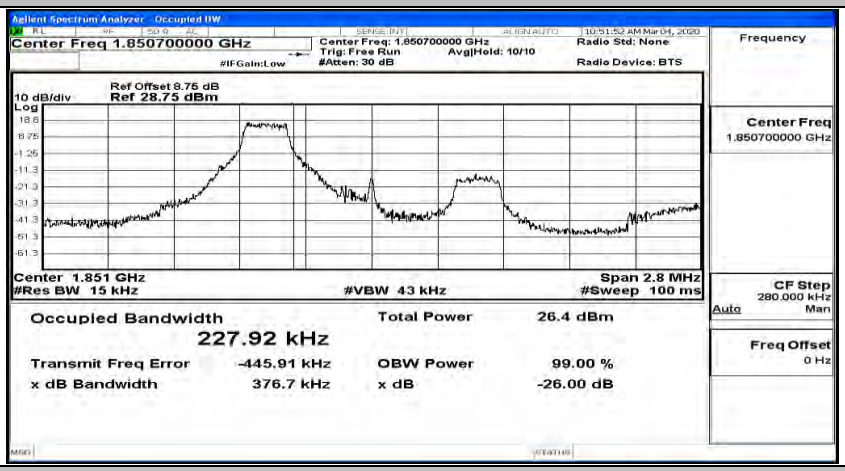


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



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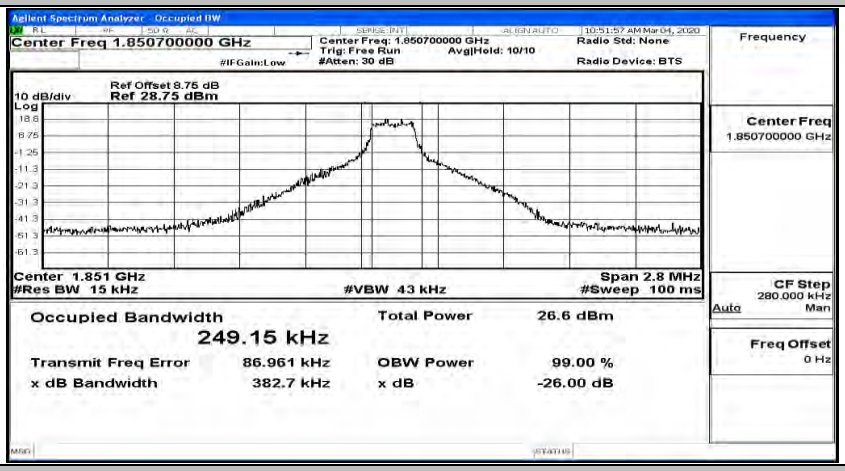

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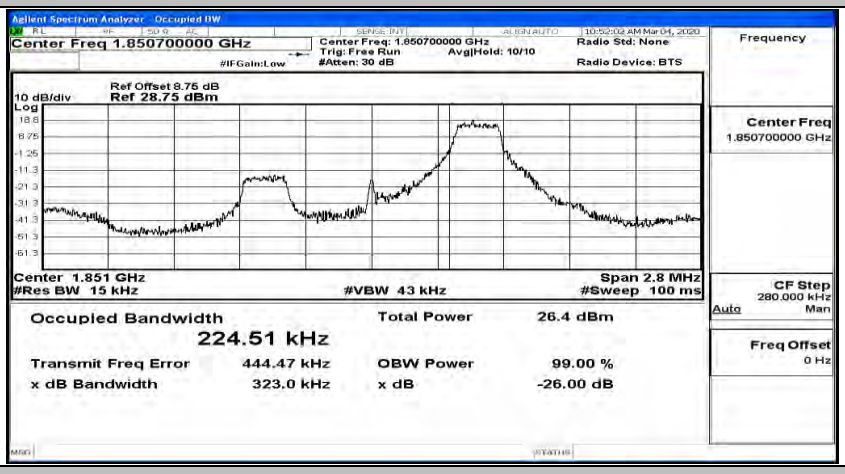

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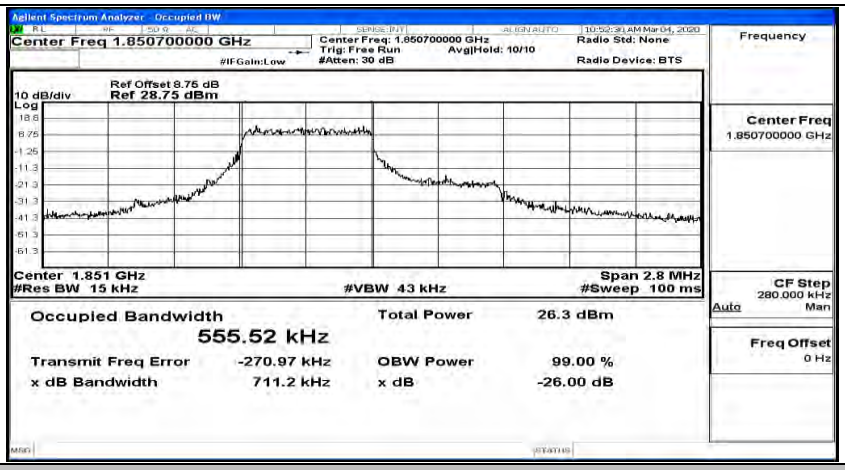

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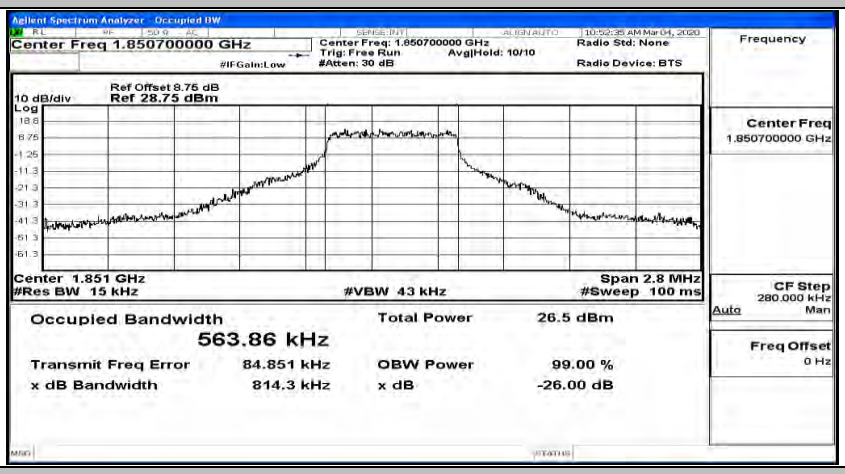

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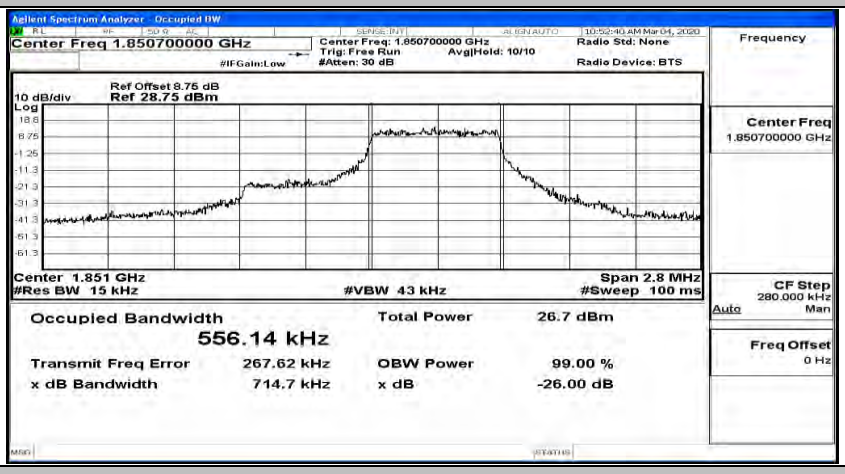

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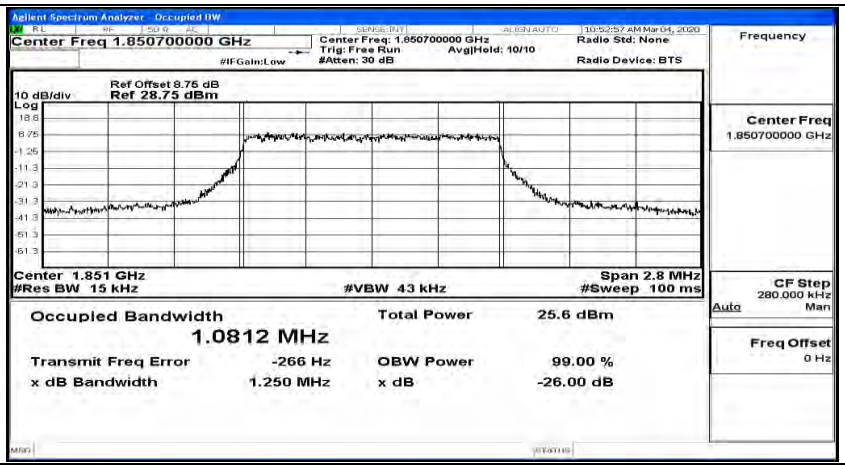

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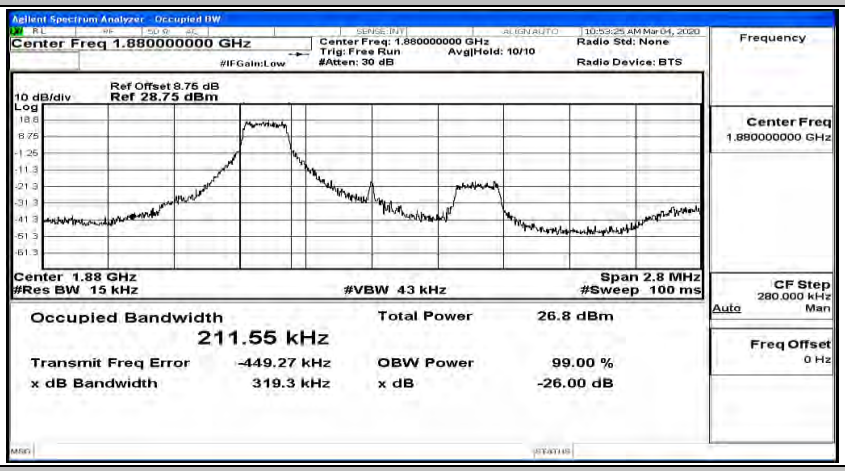

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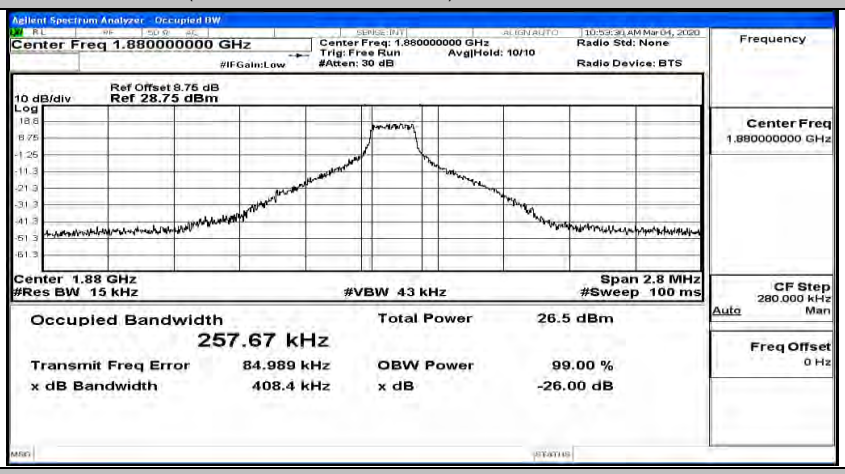

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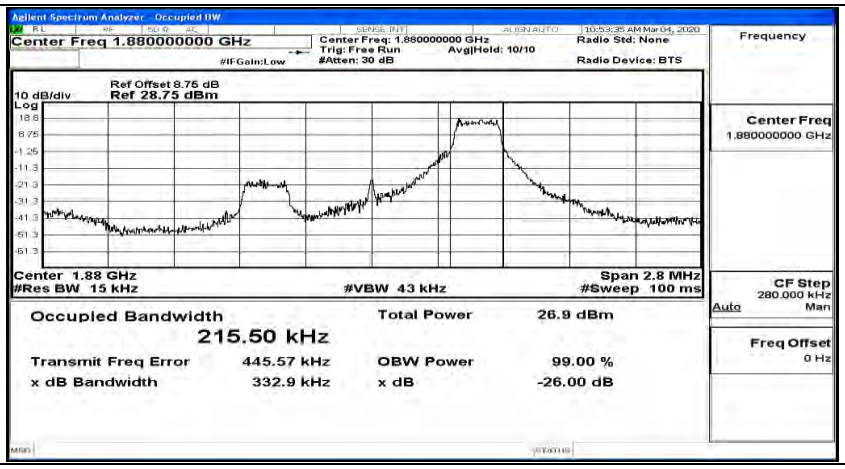

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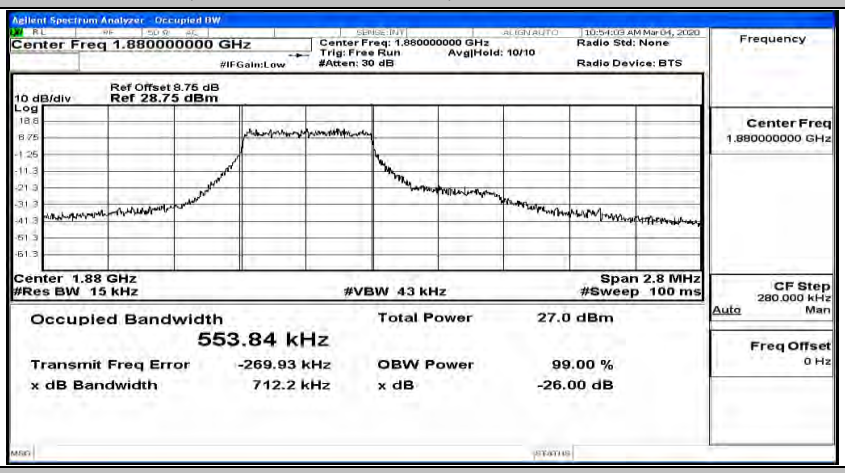

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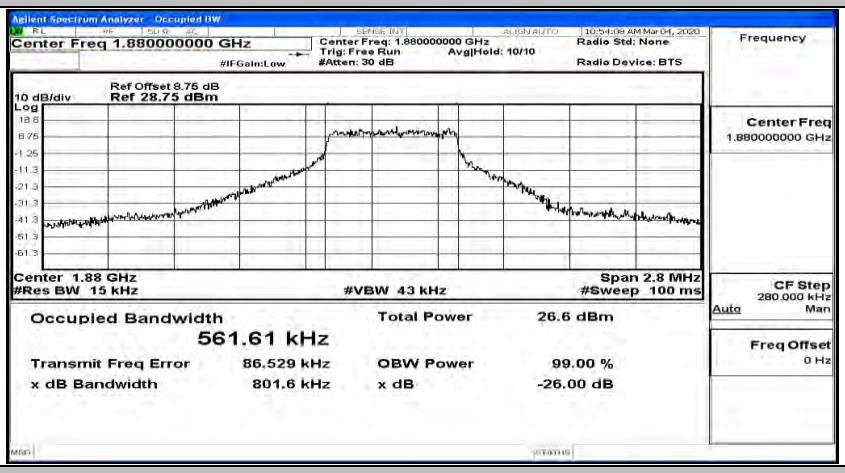

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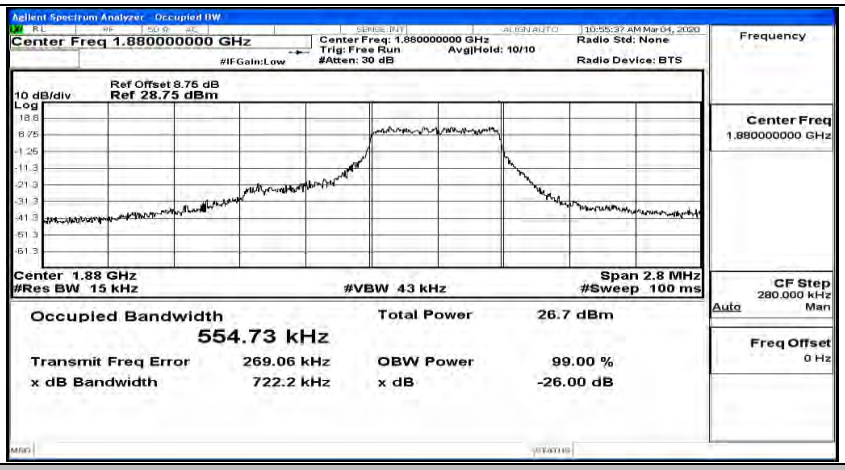

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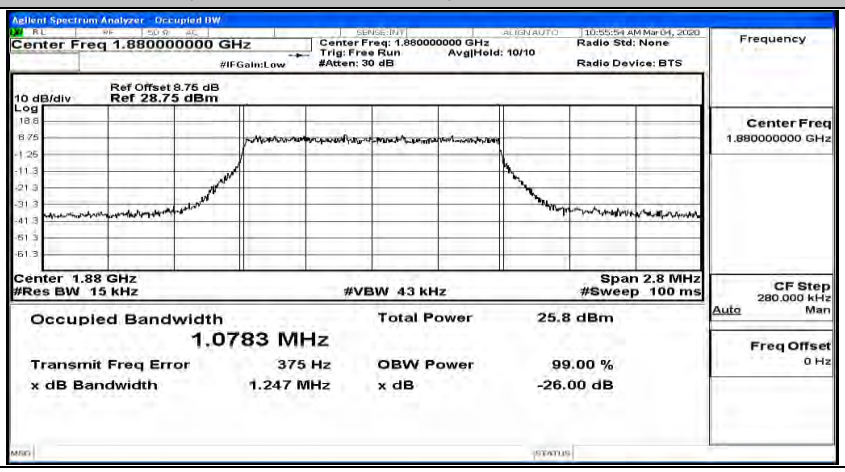

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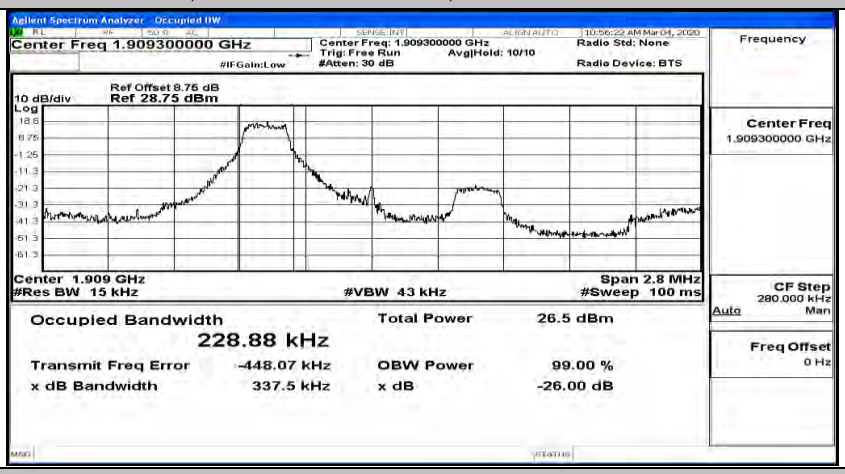

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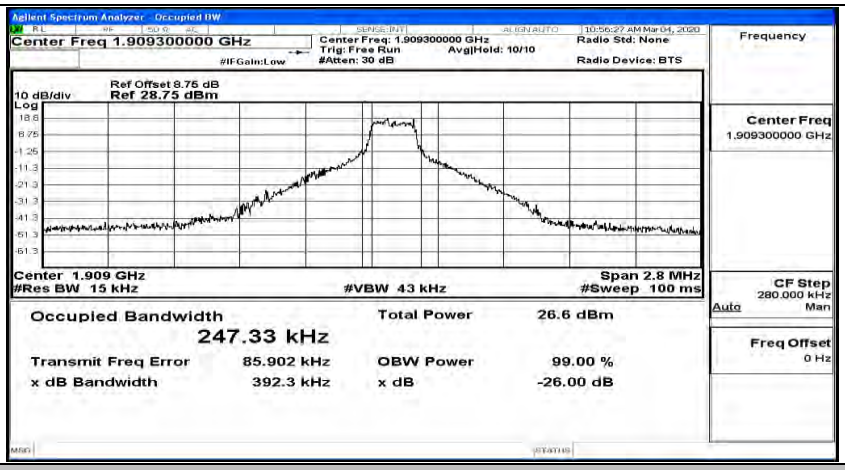

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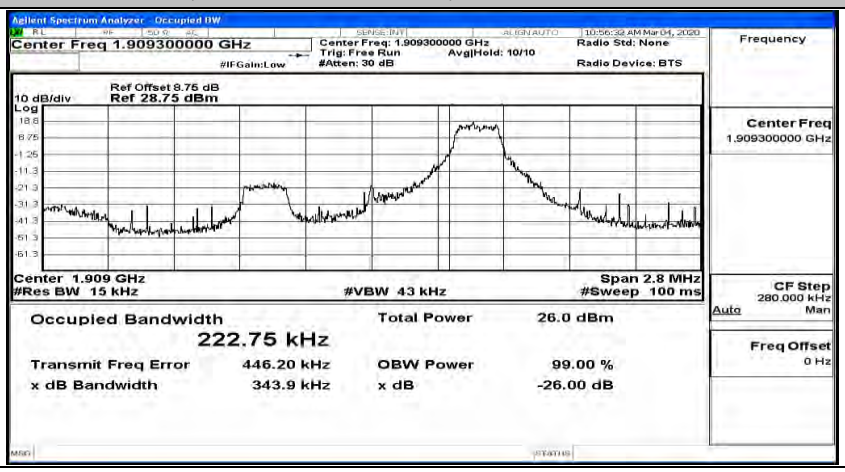

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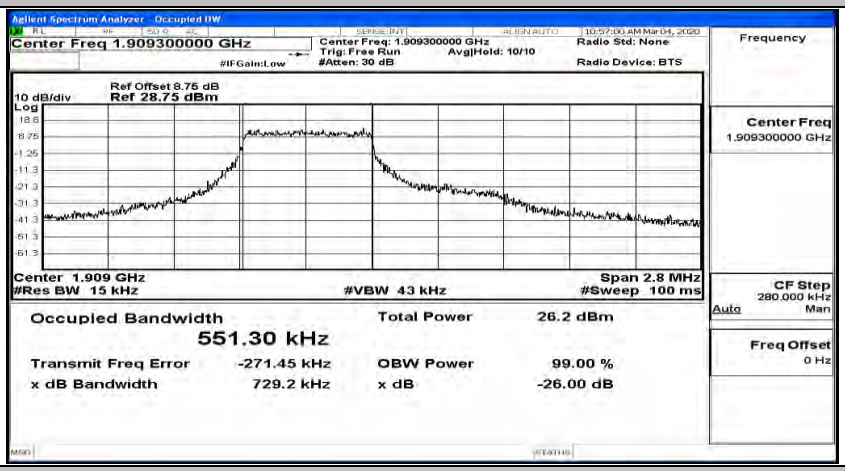

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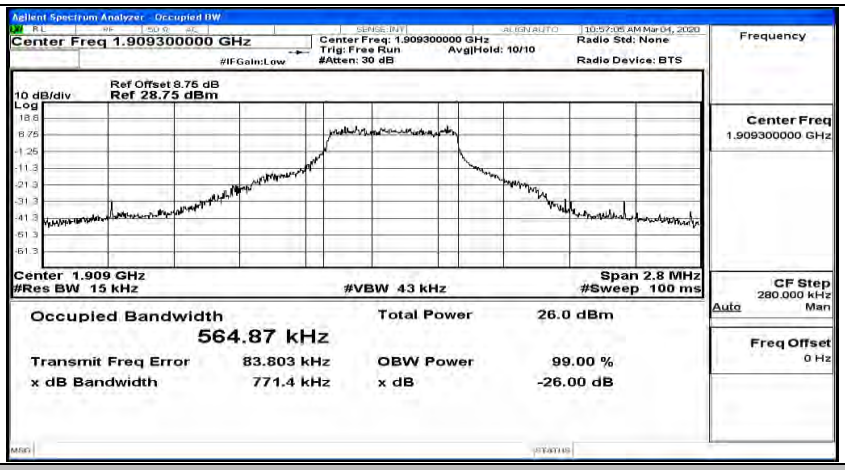

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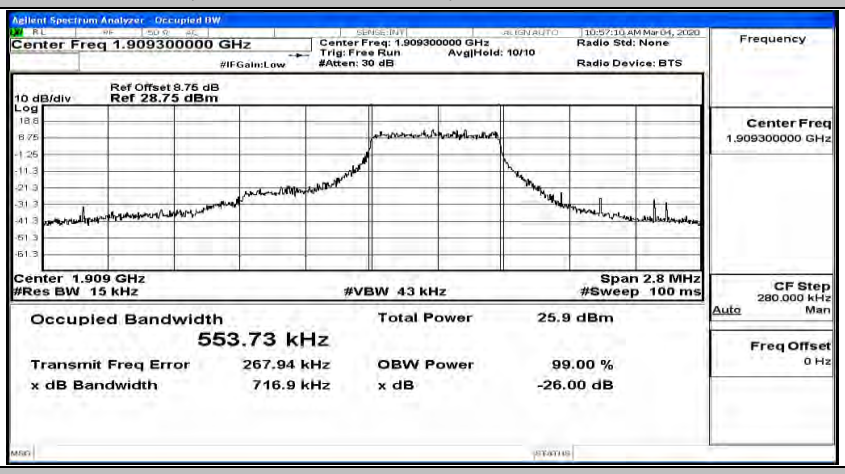

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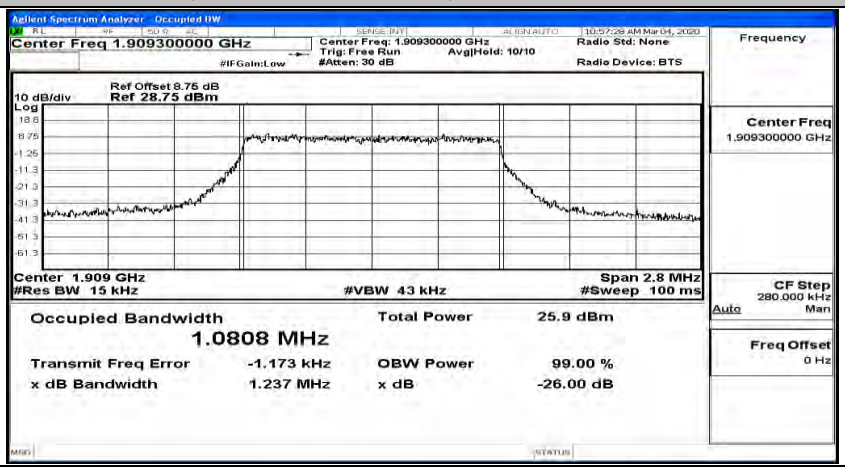
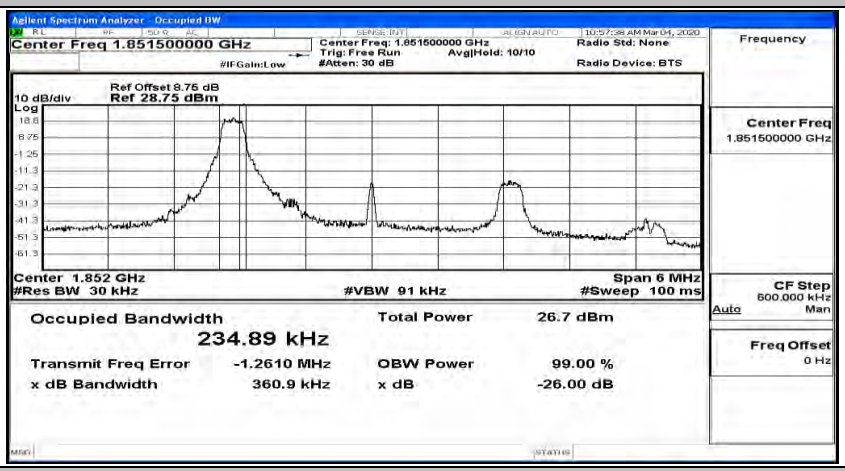
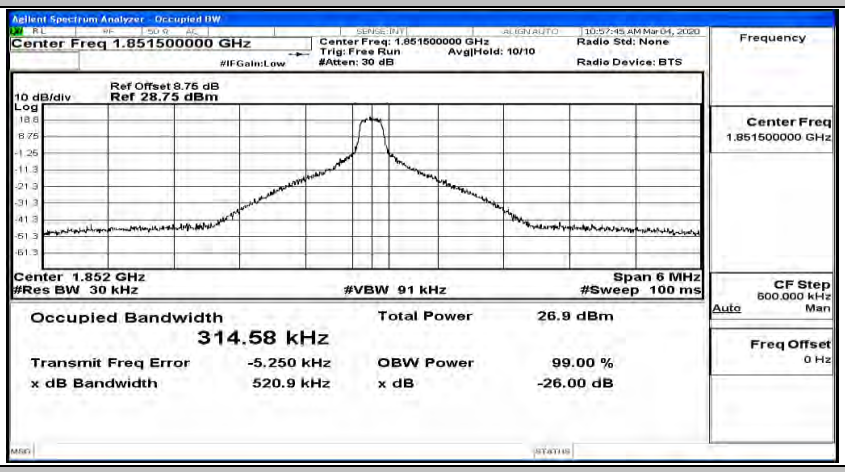


Channel Bandwidth: 3 MHz

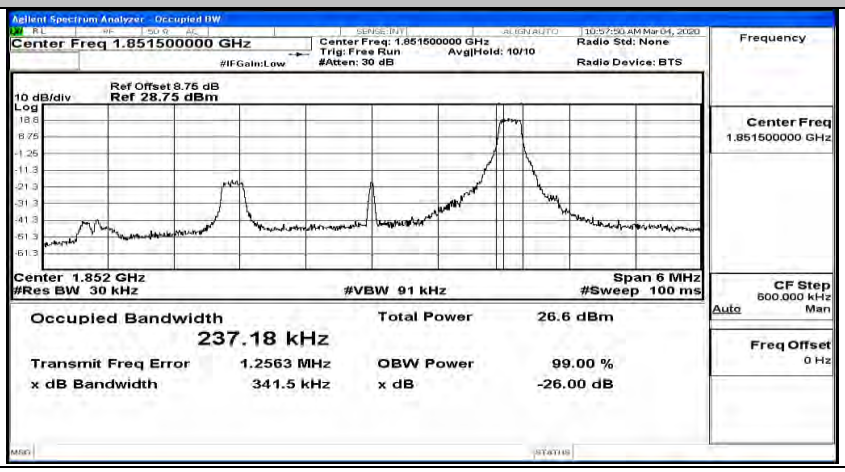
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



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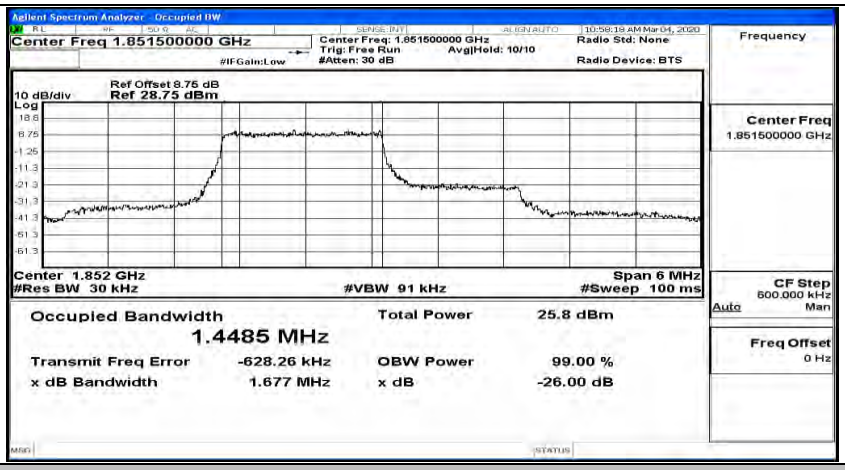

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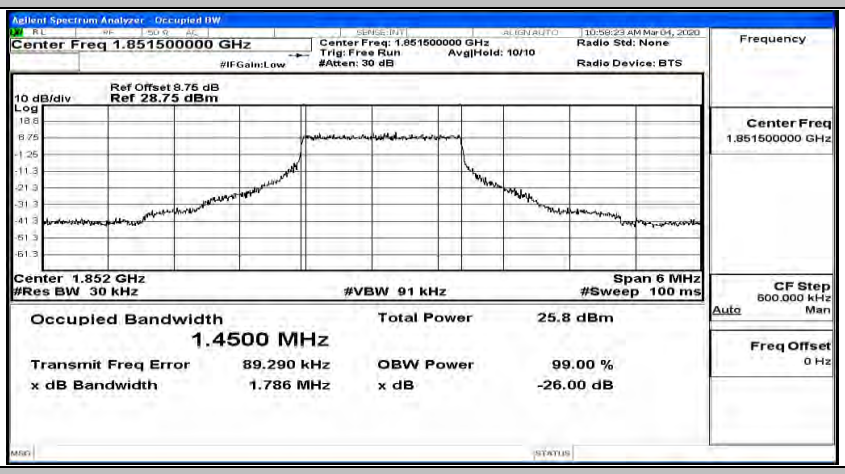
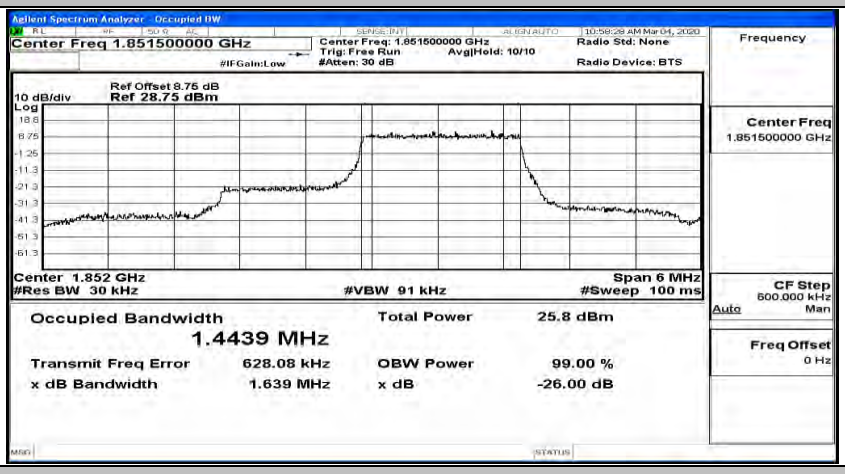


(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



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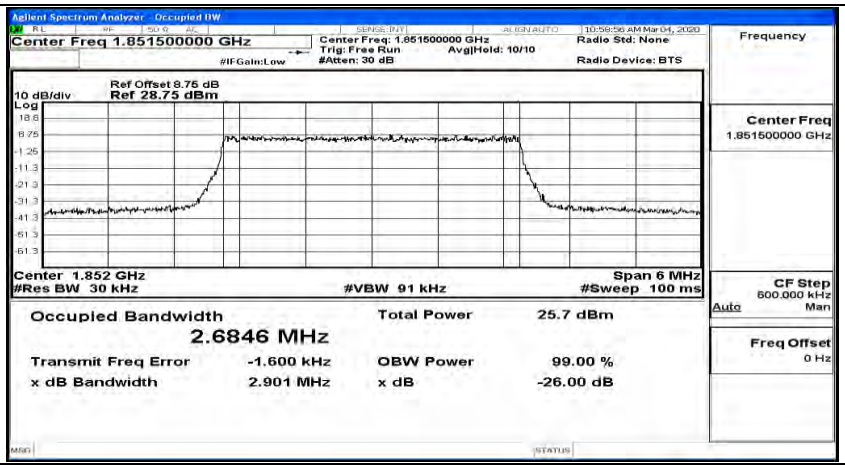

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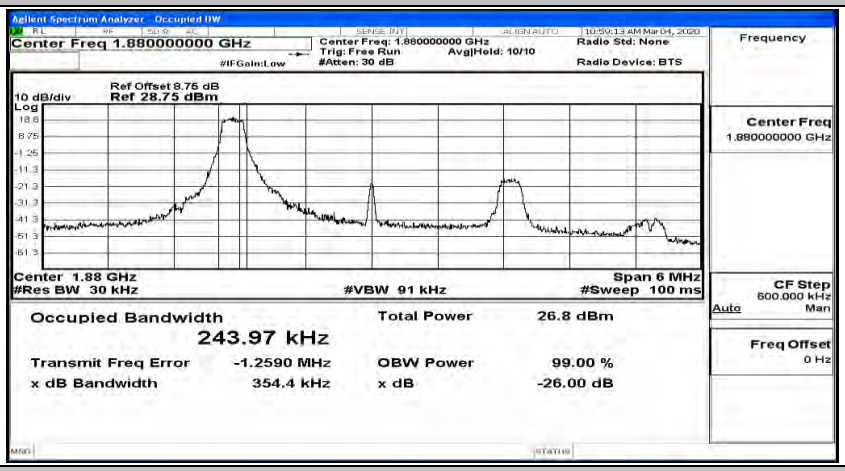

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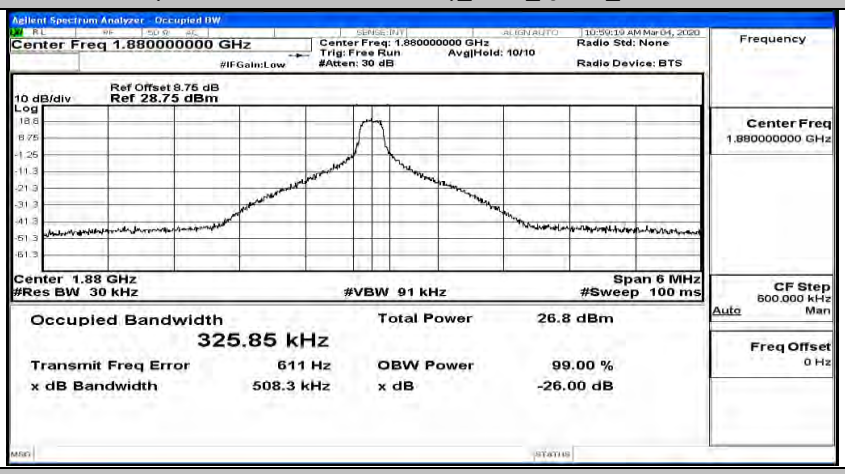

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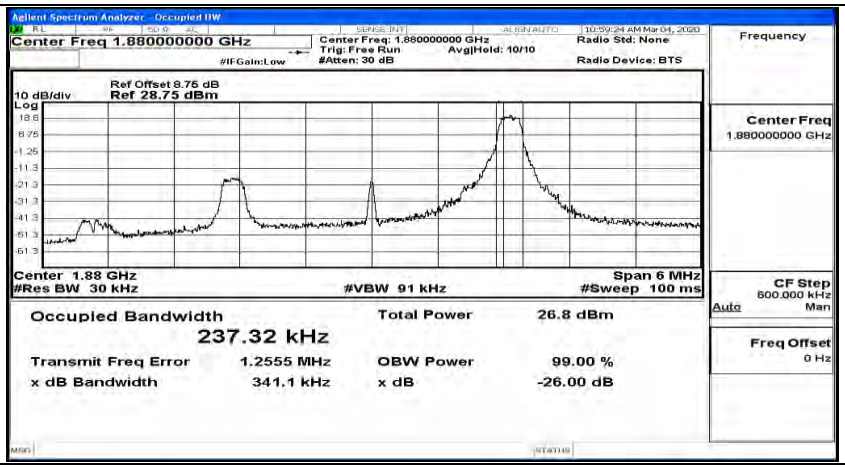
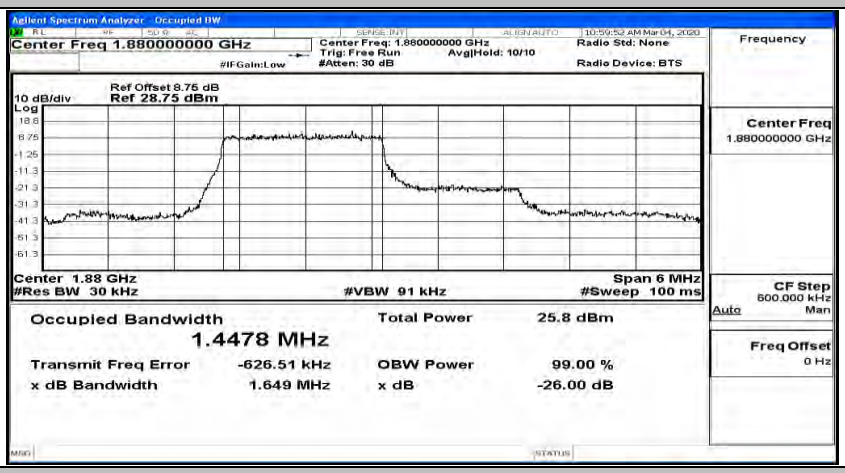


(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



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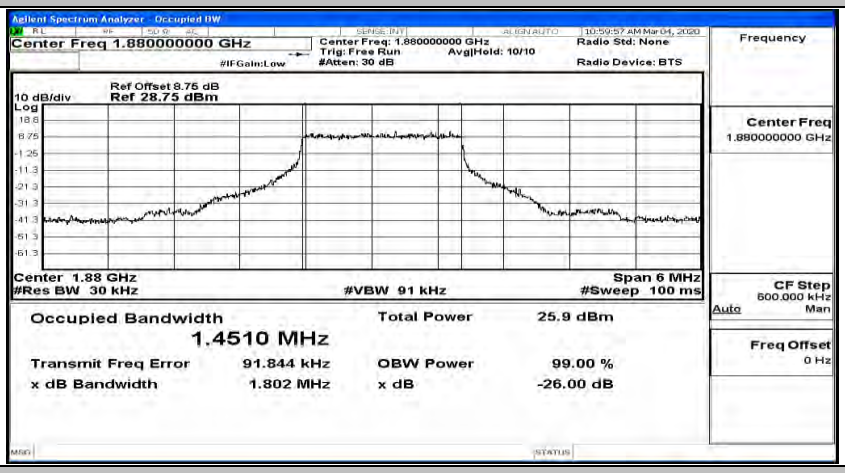

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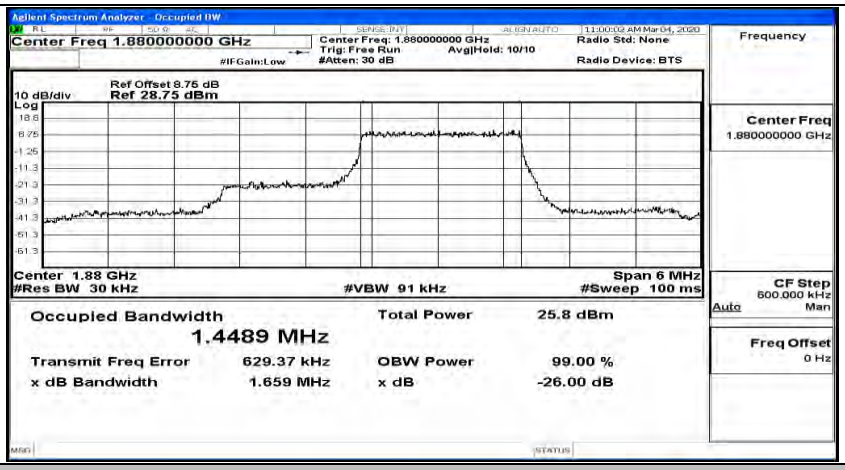

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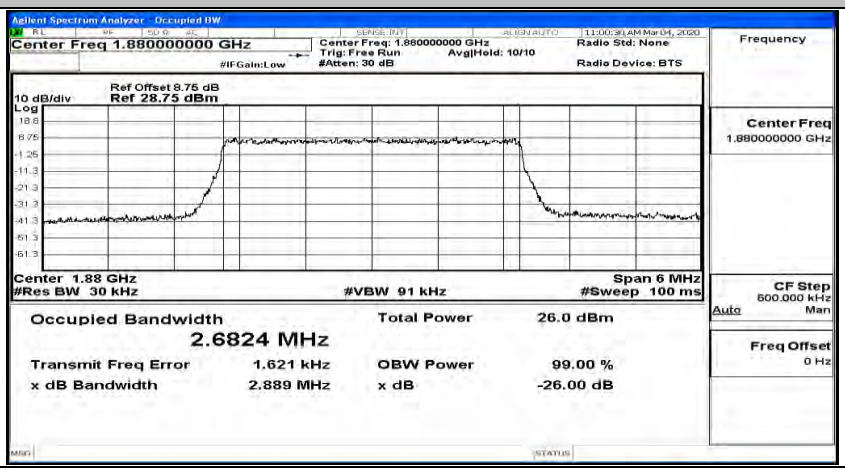

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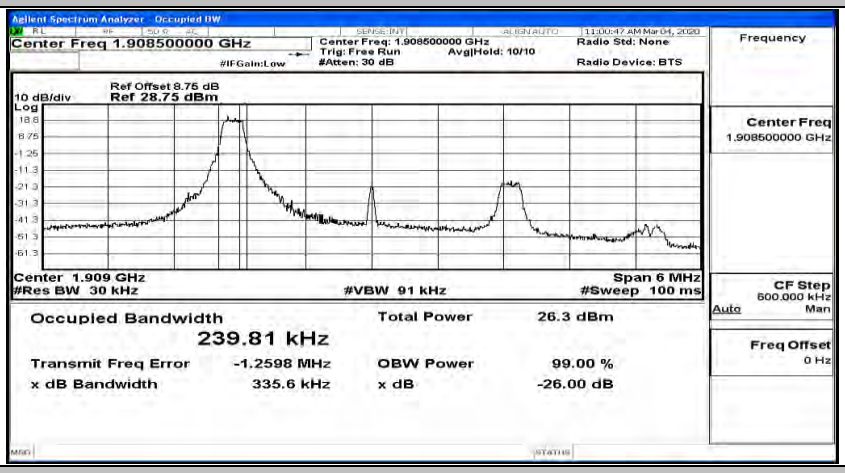

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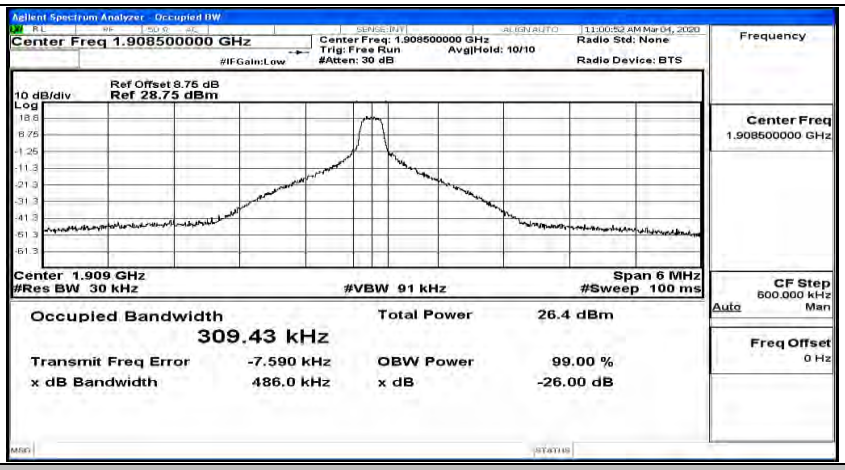
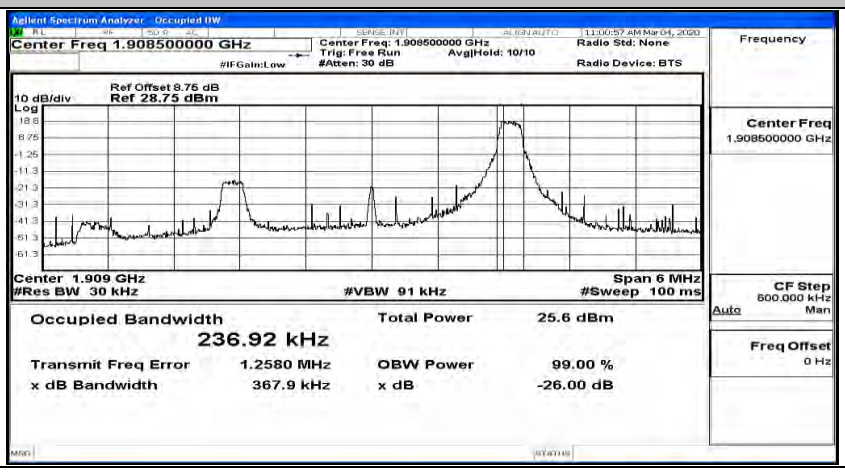


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



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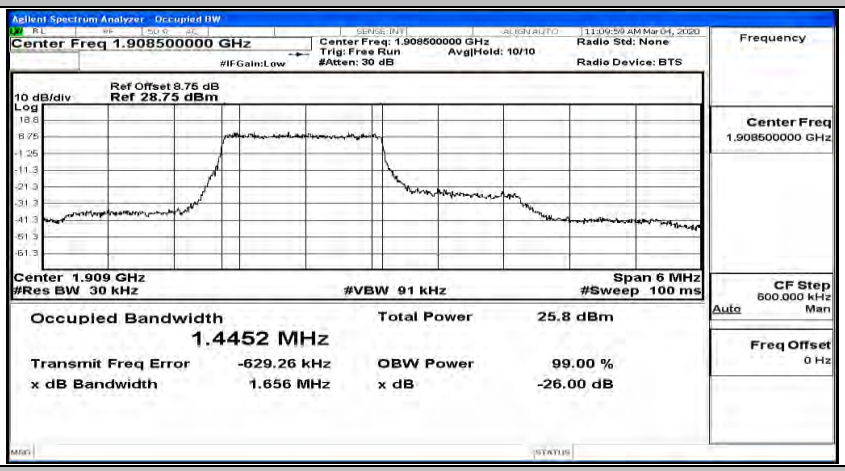

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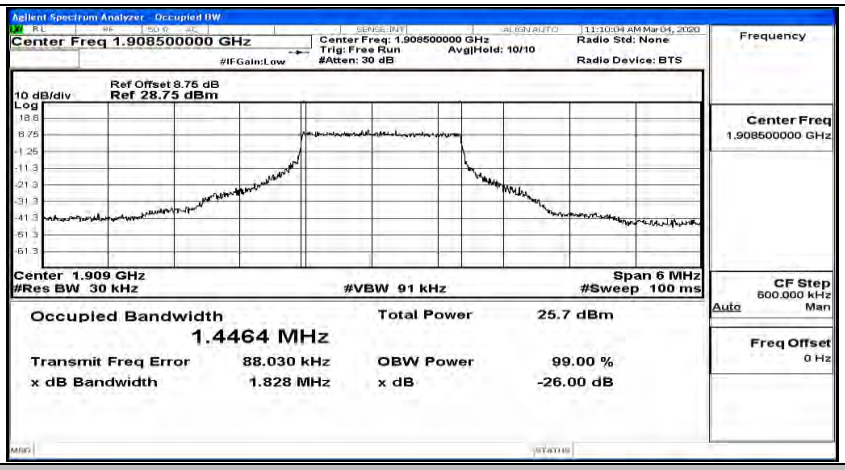
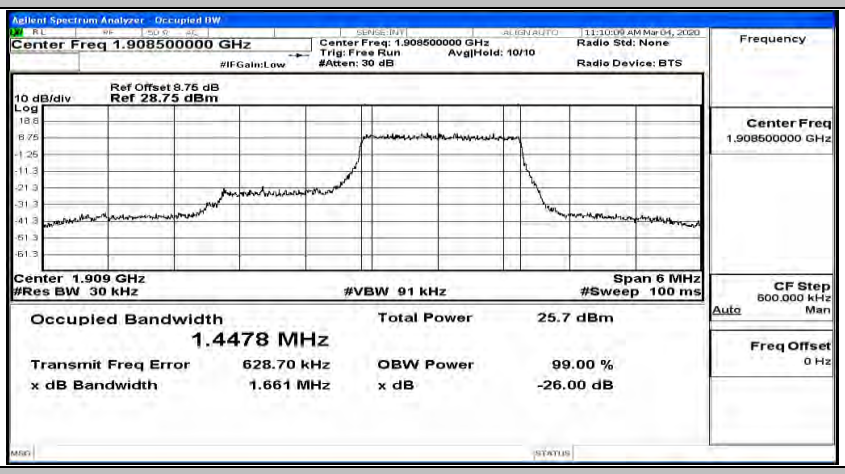


(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



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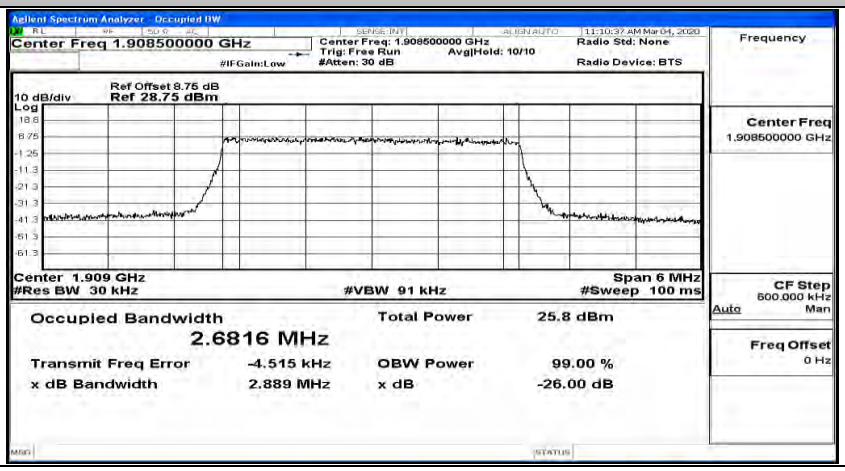
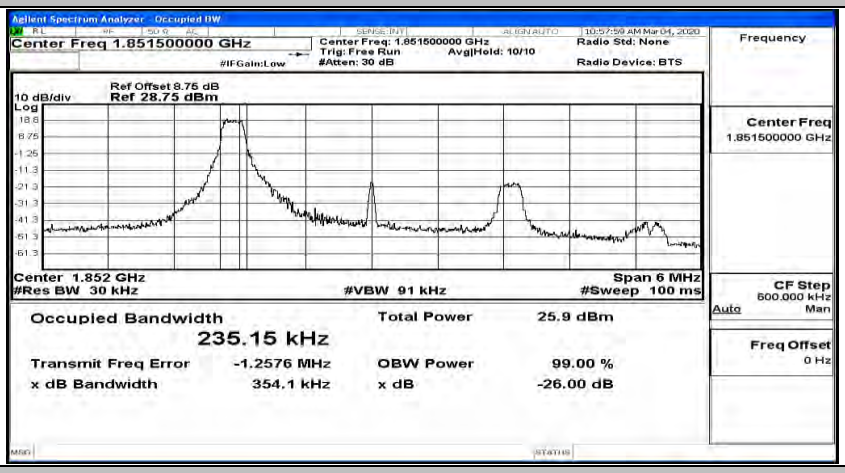


(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



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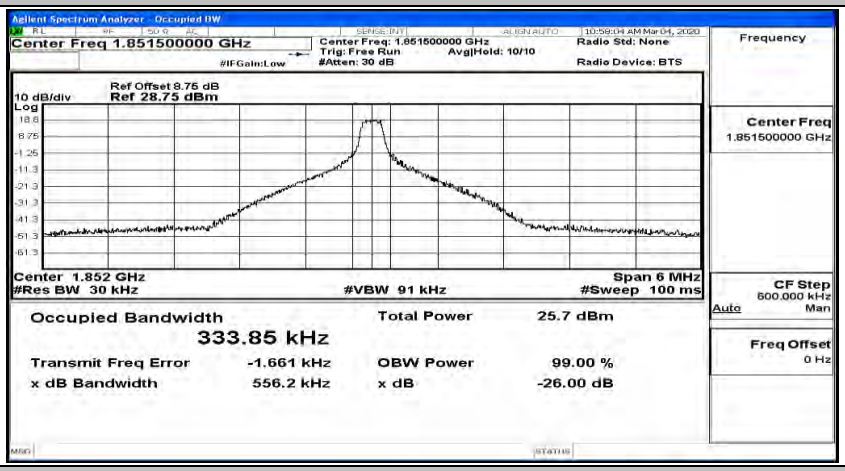

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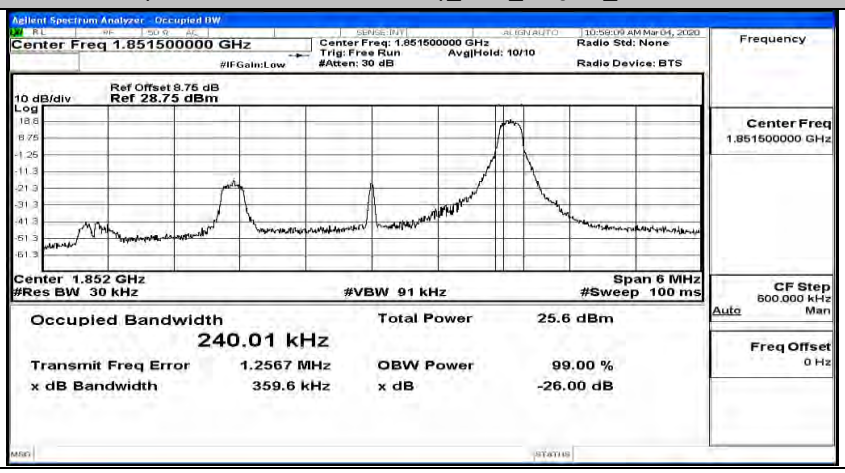
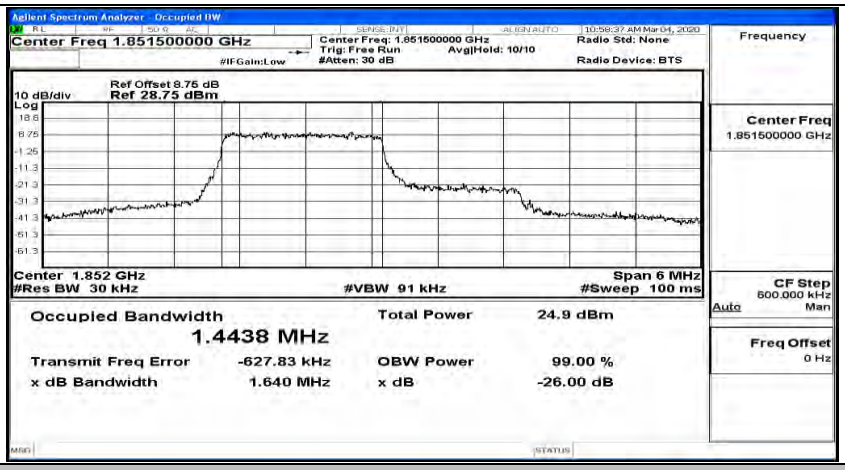


(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



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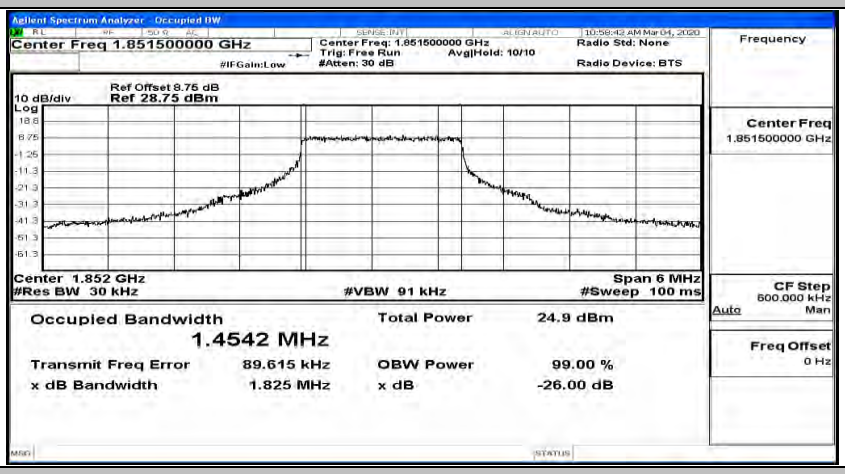
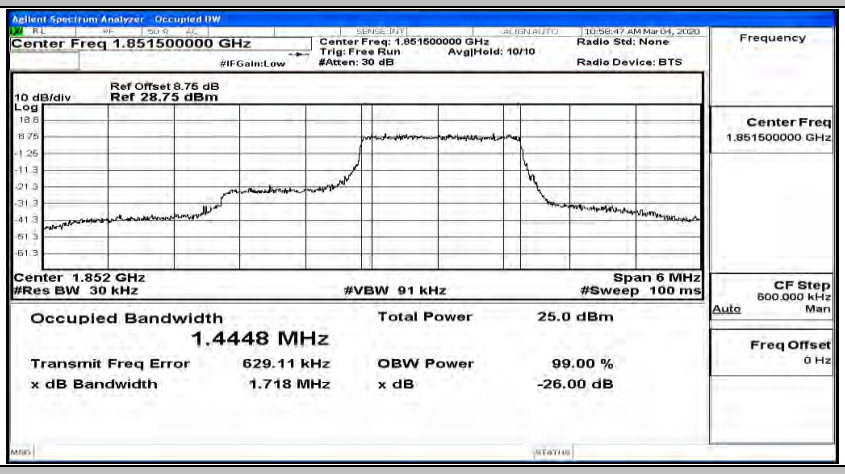


(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



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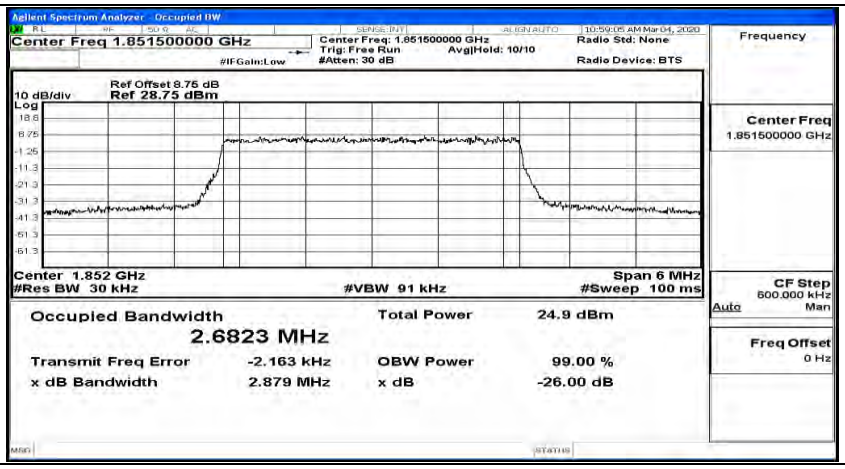
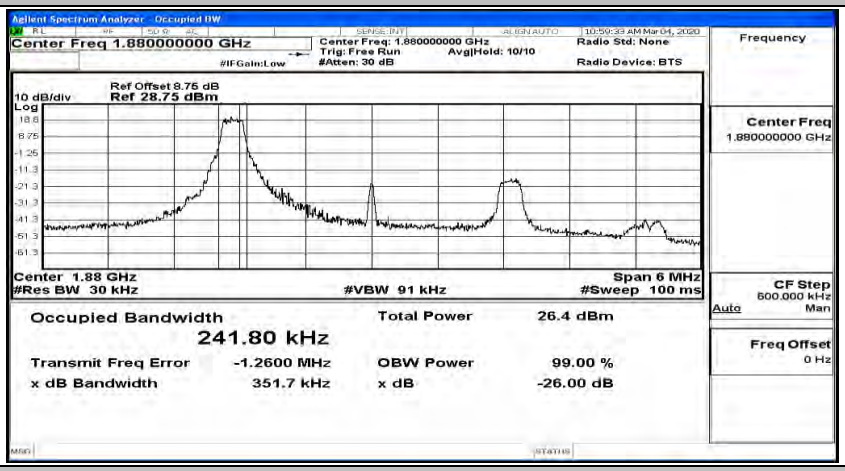
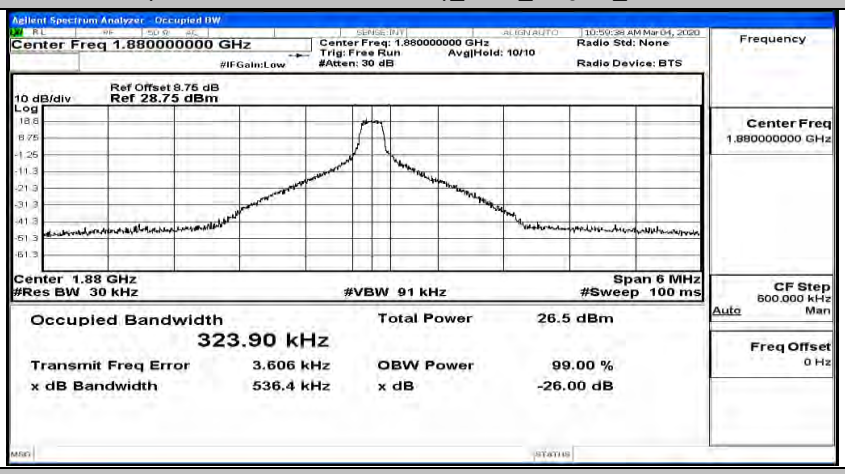


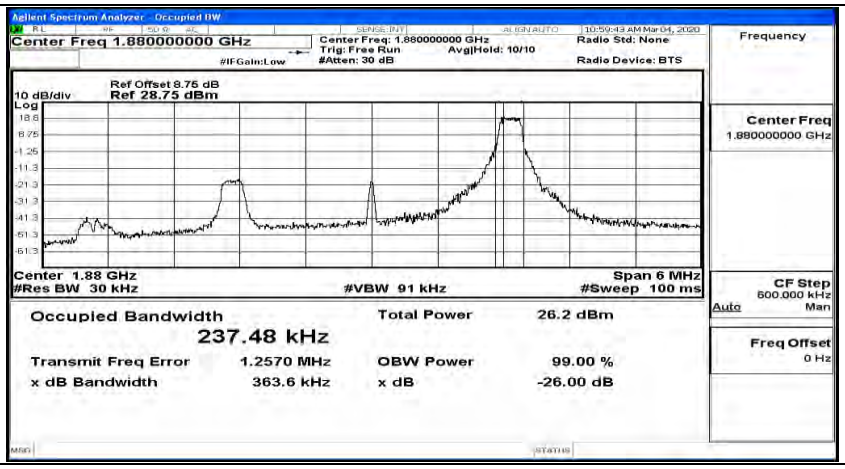
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



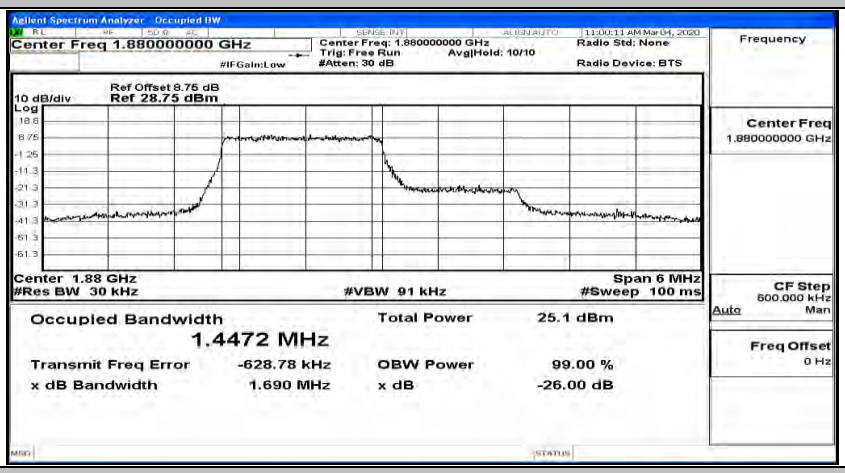
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



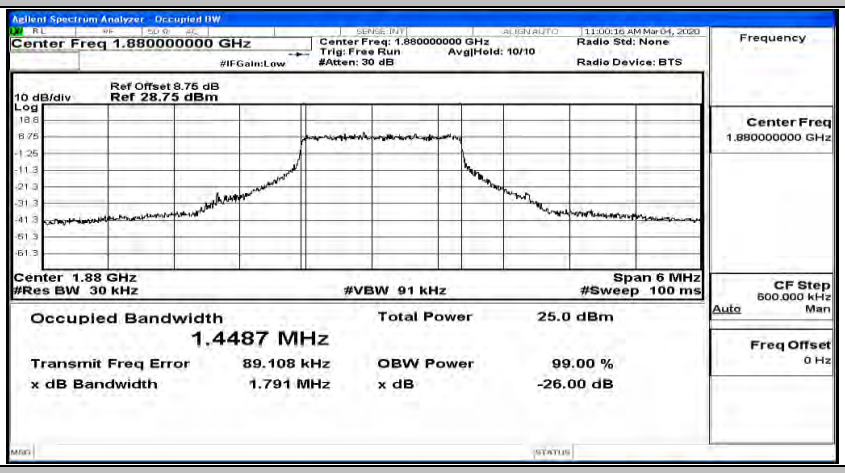
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



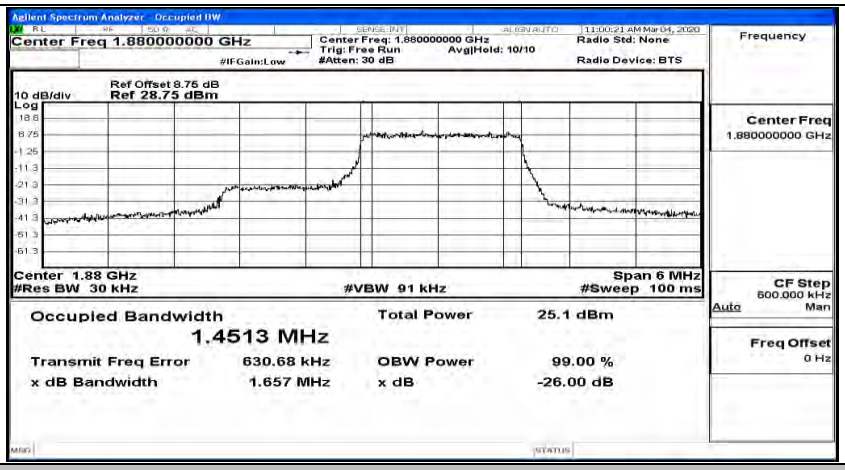
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



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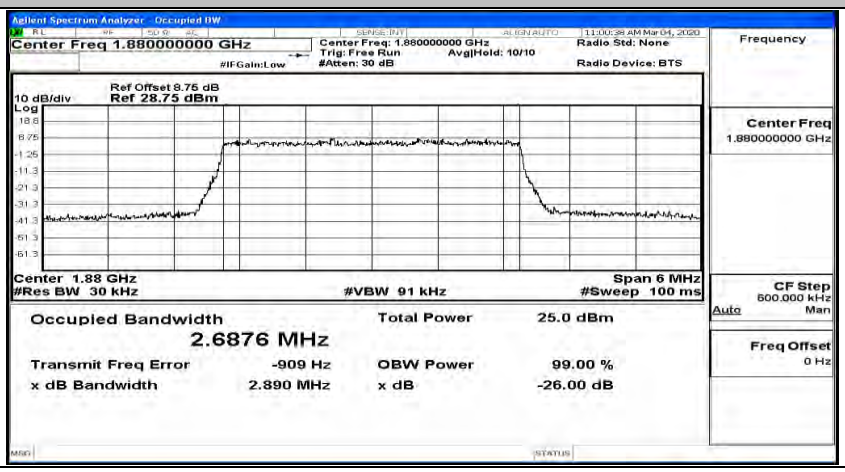

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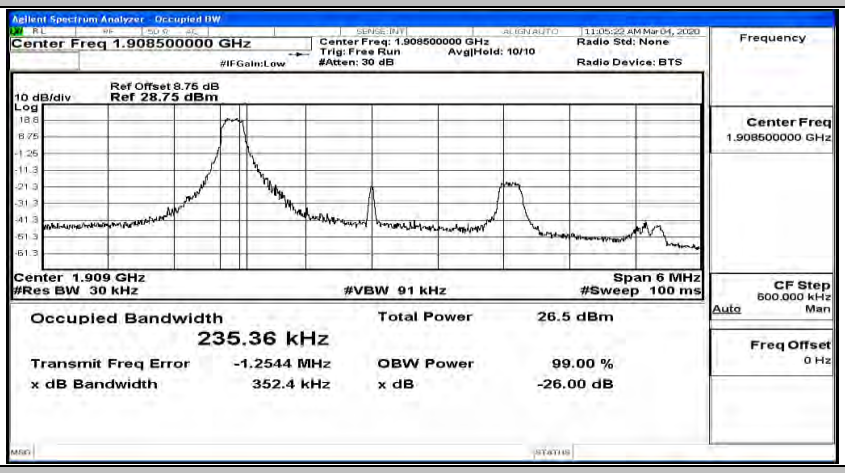

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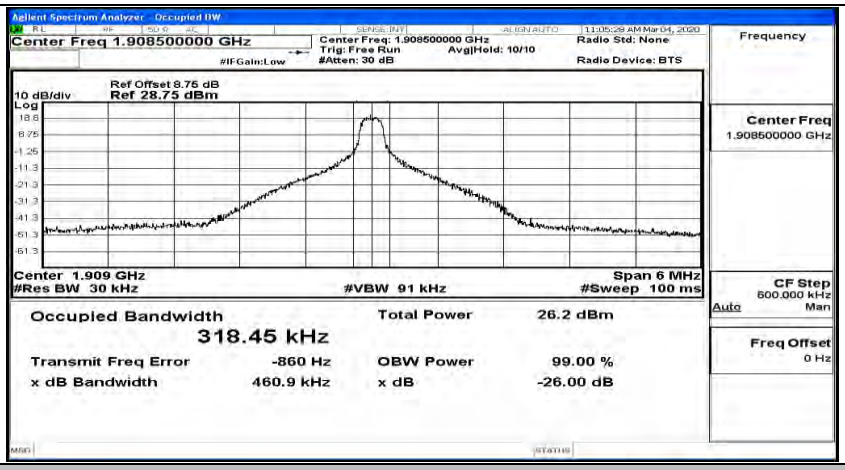

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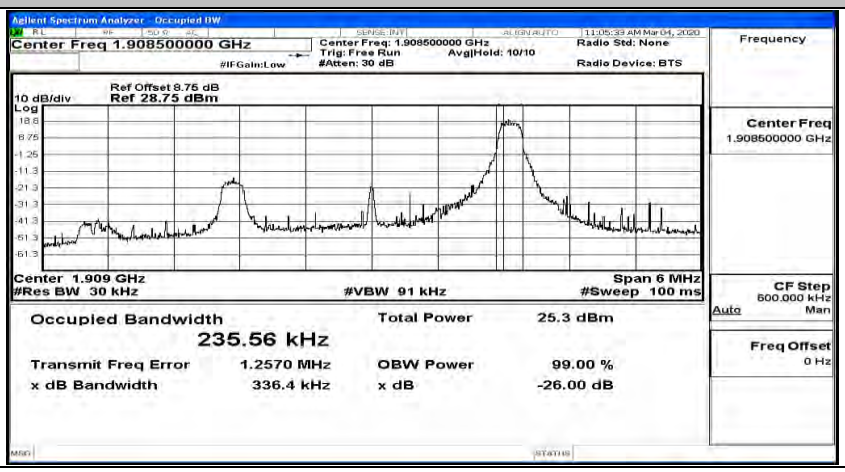
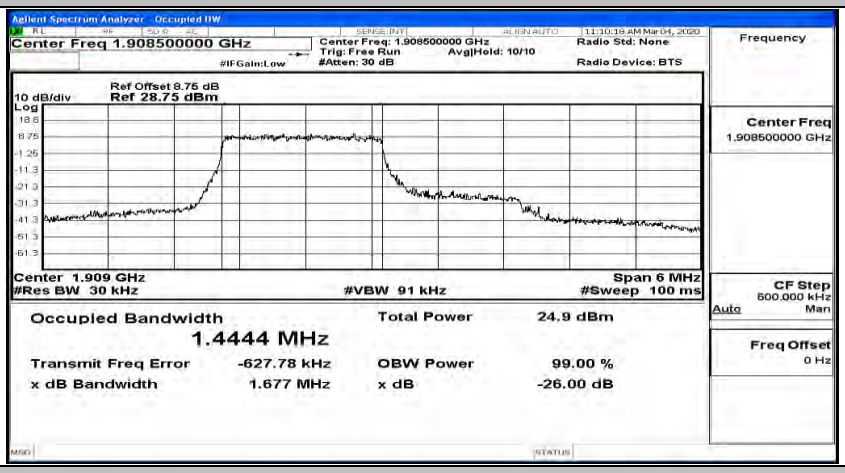


(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



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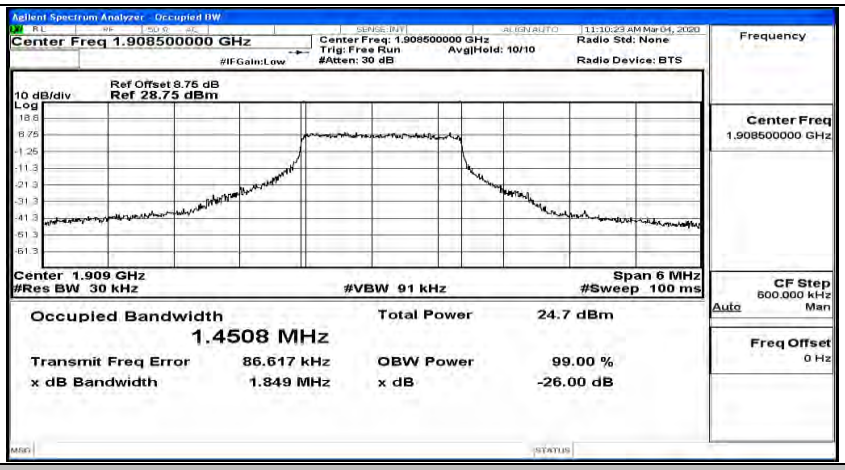

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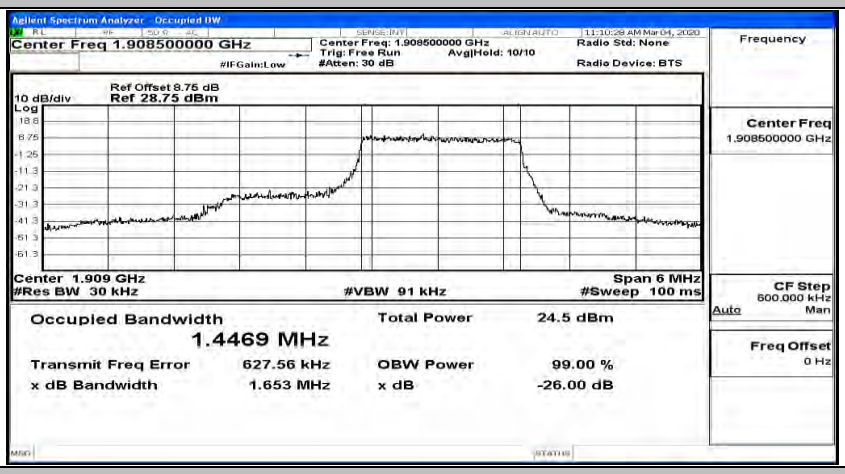

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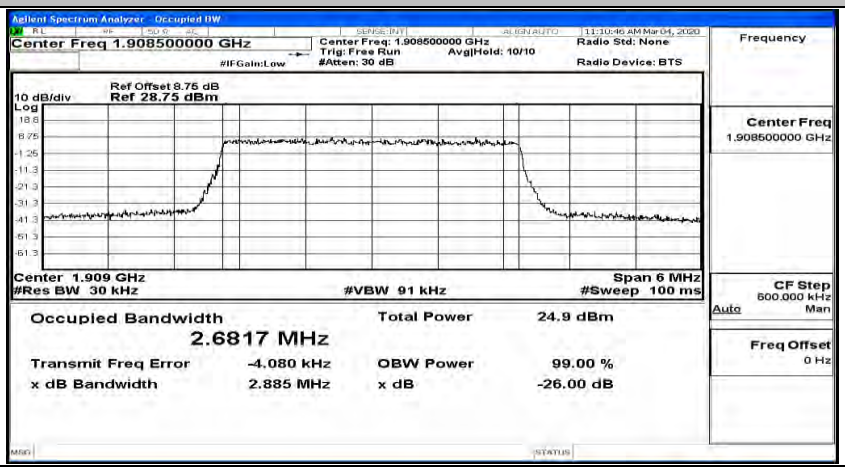
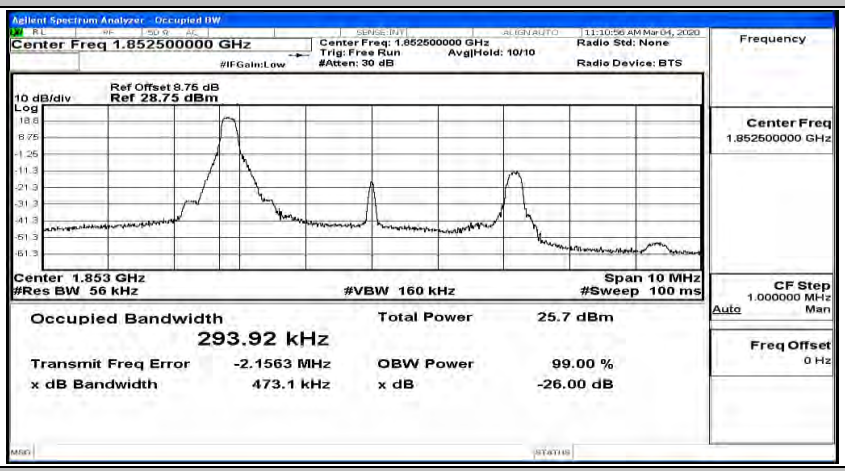
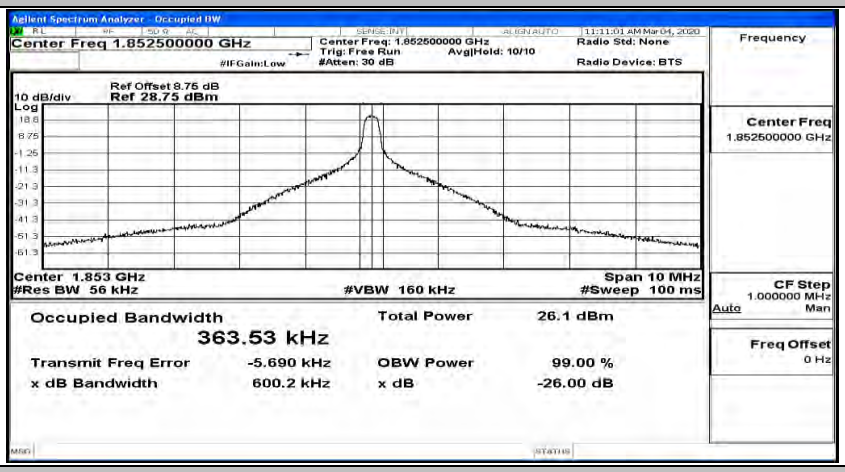


Channel Bandwidth: 5 MHz

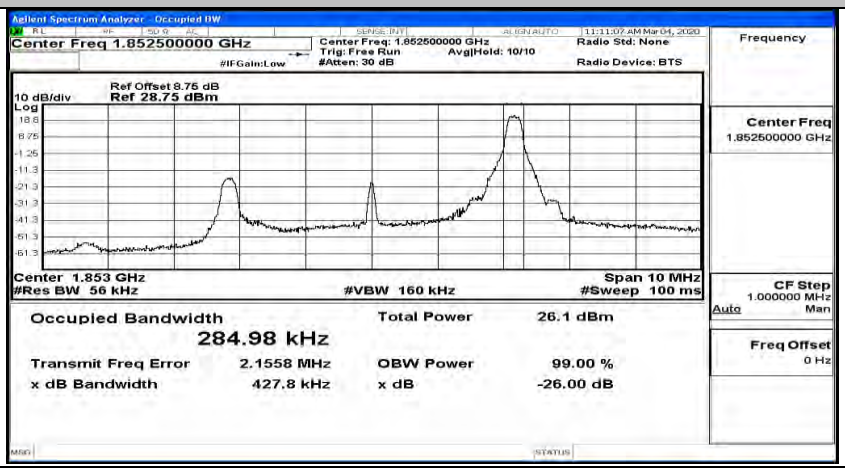
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



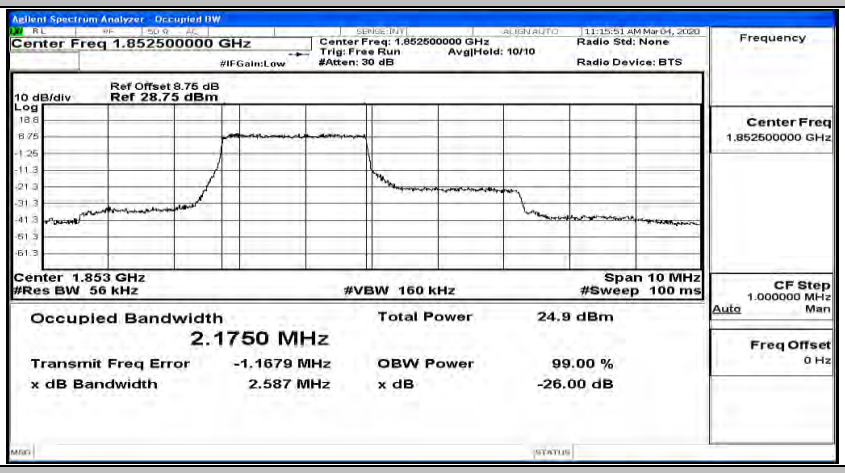
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



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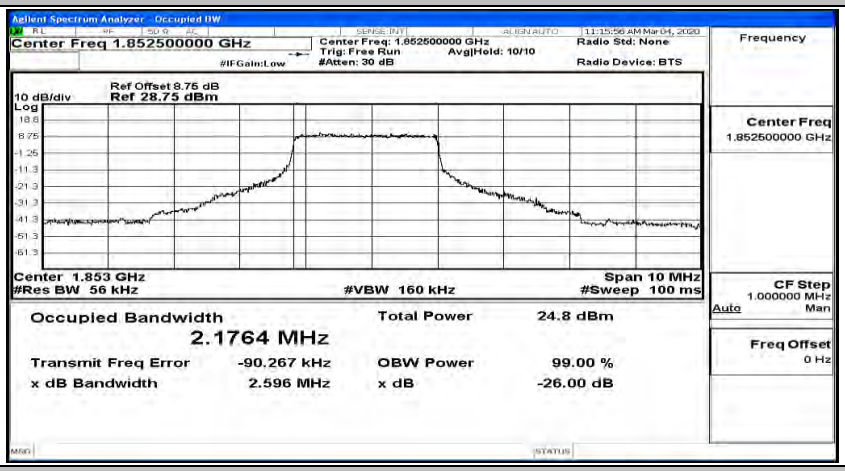

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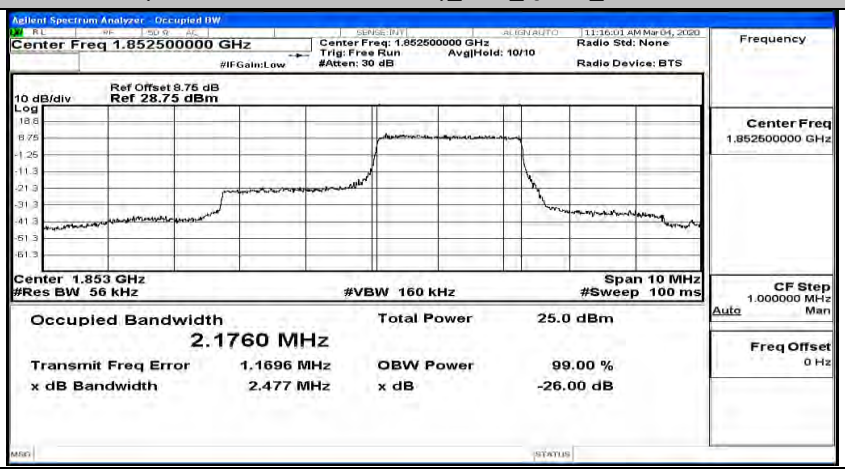
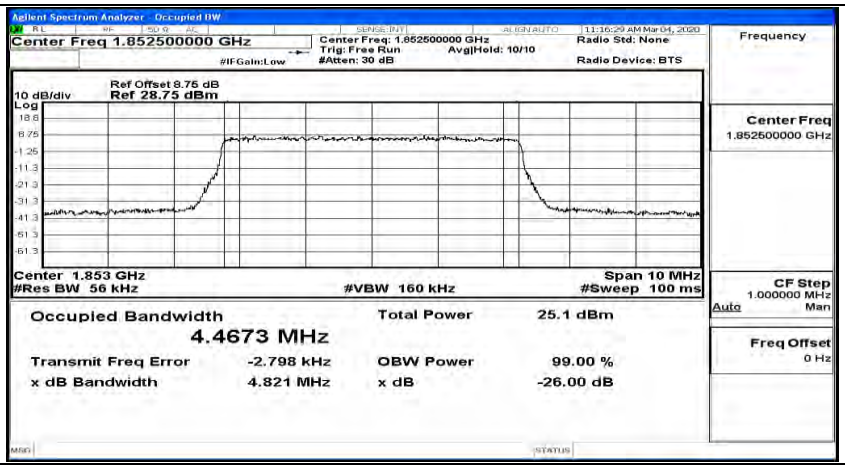
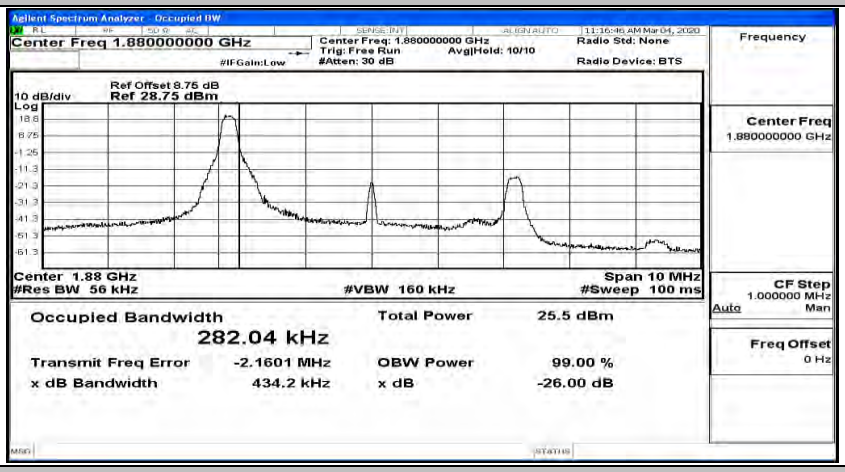


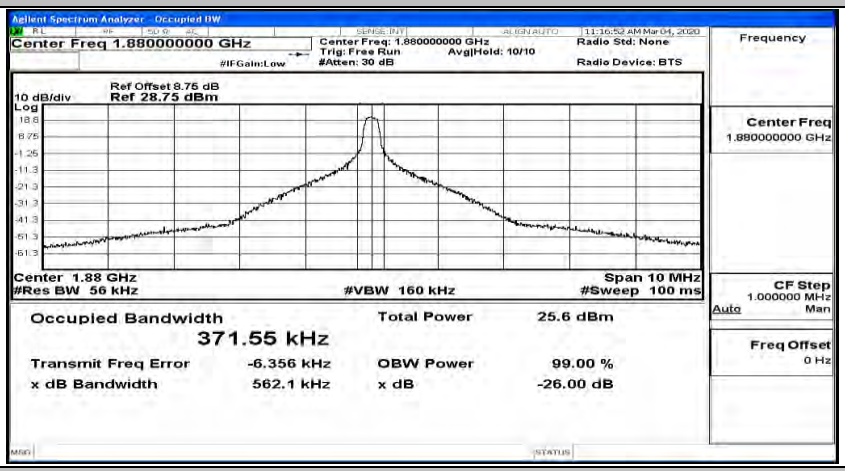
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



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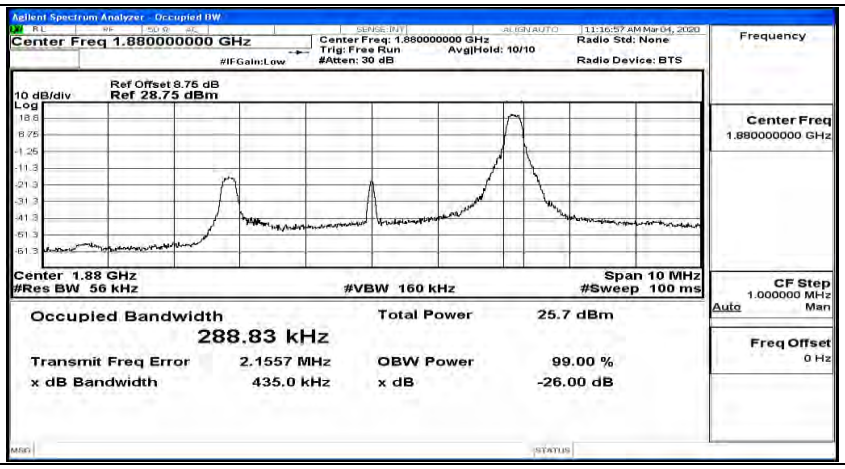
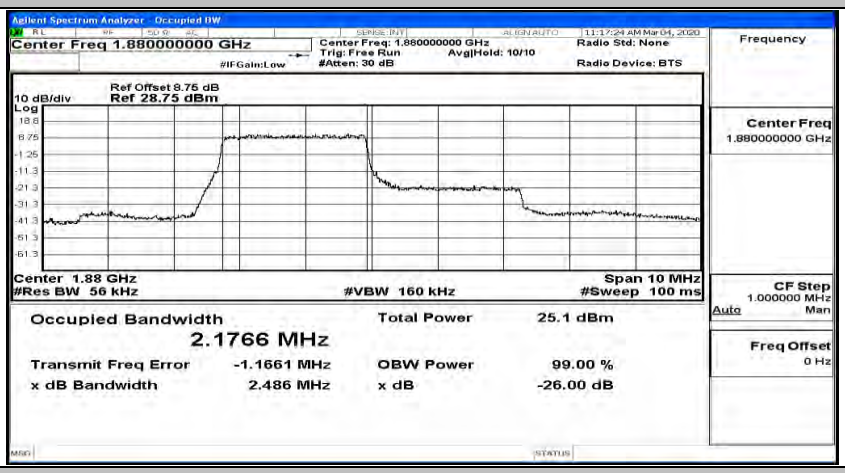


(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



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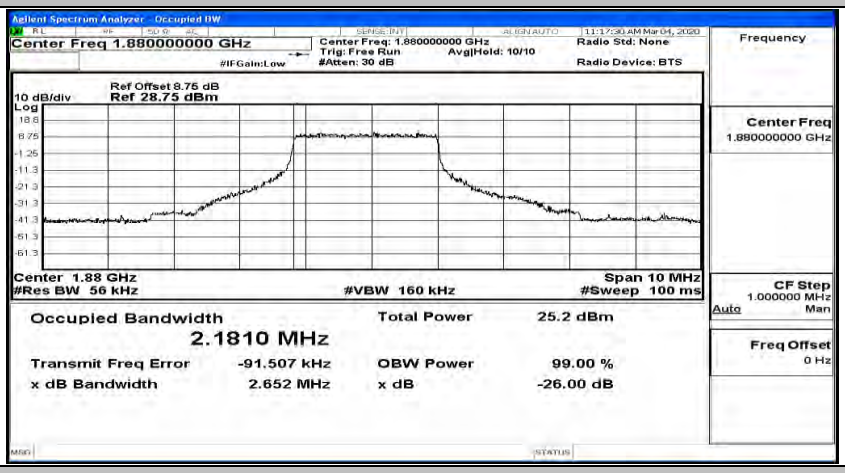
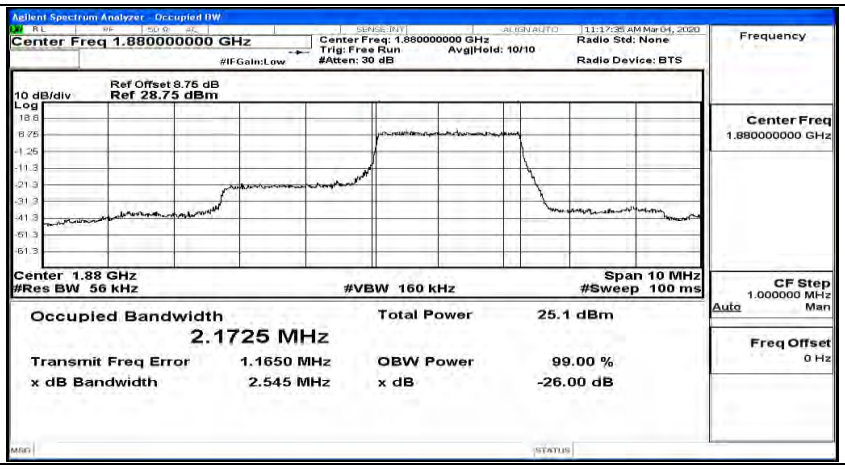


(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



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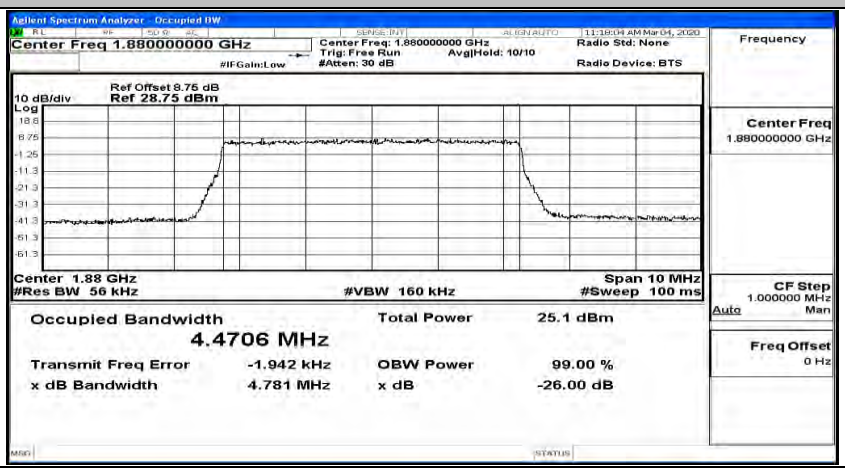
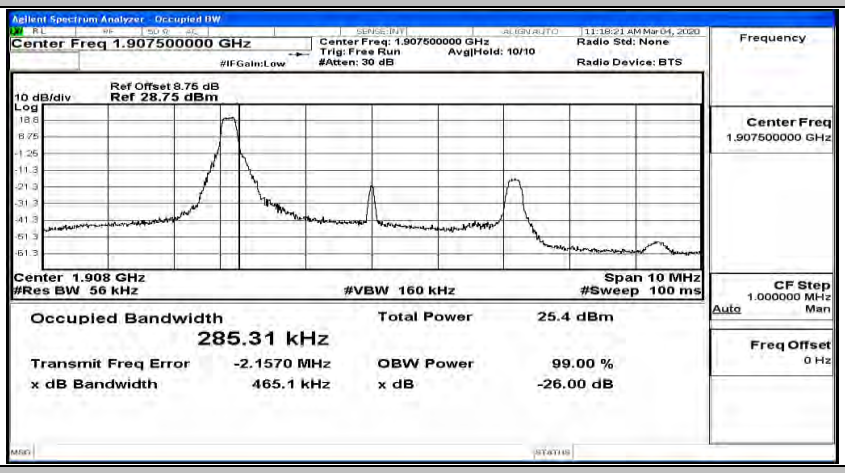
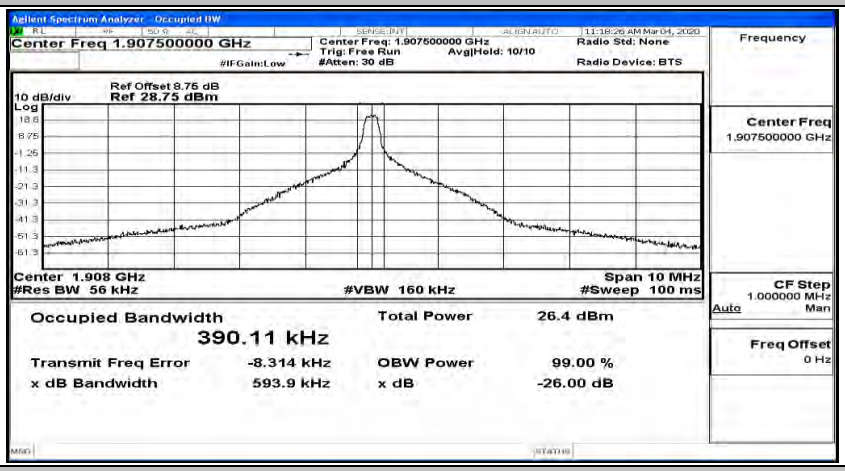


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



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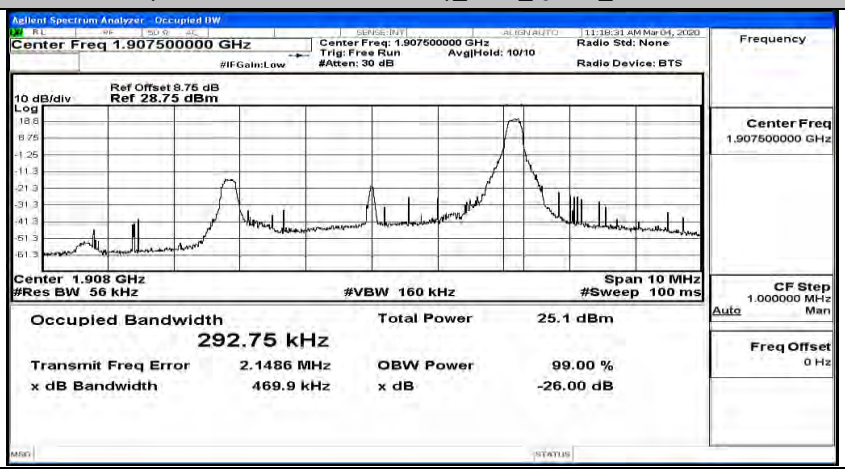
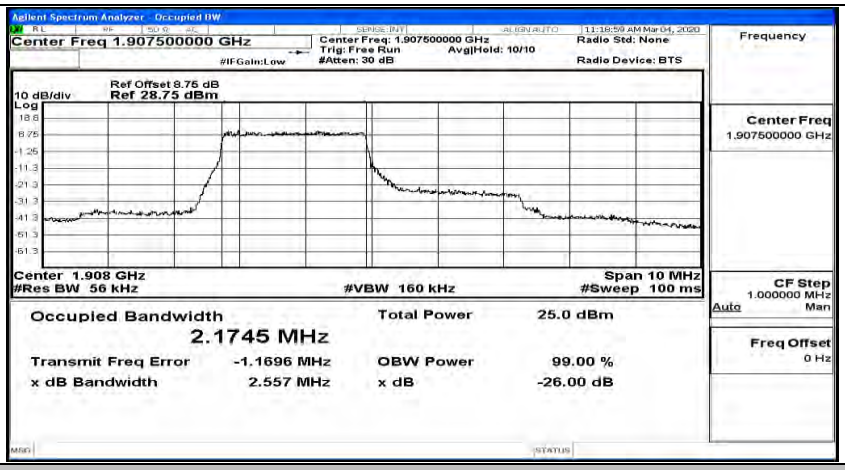
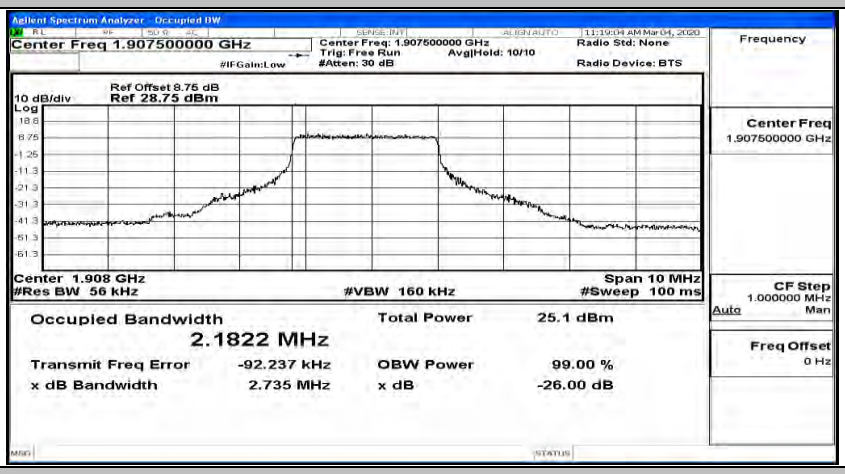


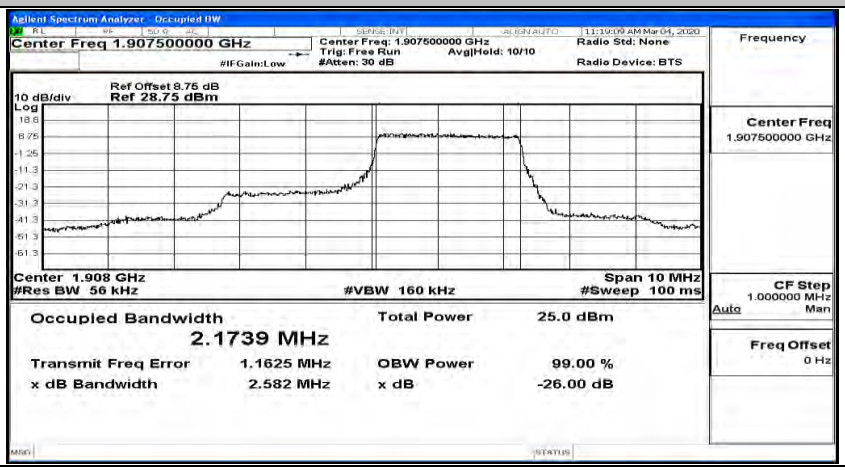
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



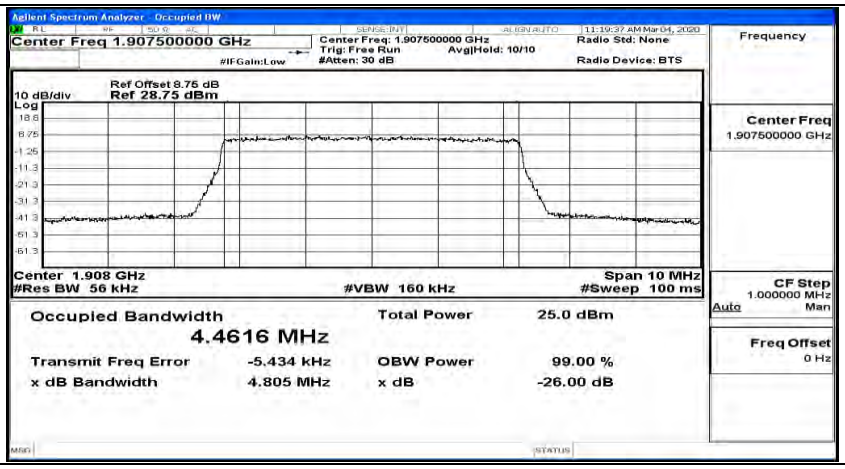
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



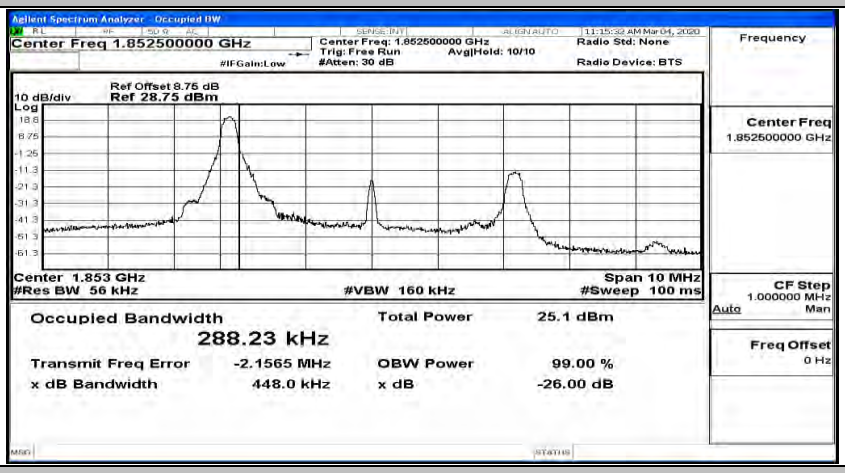
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



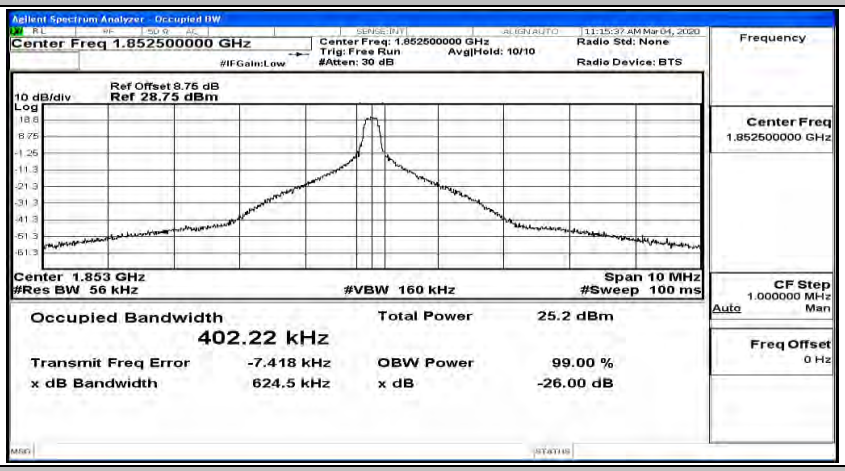
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0


Agilent Spectrum Analyzer - Occupied BW
Center Freq 1.907500000 GHz
Center Freq: 1.907500000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
11:19:37 AM Mar 04, 2020
Frequency
Ref Offset 8.75 dB
10 dB/div
Ref 28.75 dBm
Log
18.8
8.75
-1.25
-11.3
-21.3
-31.3
-41.3
-51.3
-61.3
Center 1.908 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms
Center Freq
1.907500000 GHz
CF Step
1.000000 MHz
Auto
Man
Occupied Bandwidth
4.4616 MHz
Total Power
25.0 dBm
Transmit Freq Error
-5.434 kHz
OBW Power
99.00 %
x dB Bandwidth
4.805 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

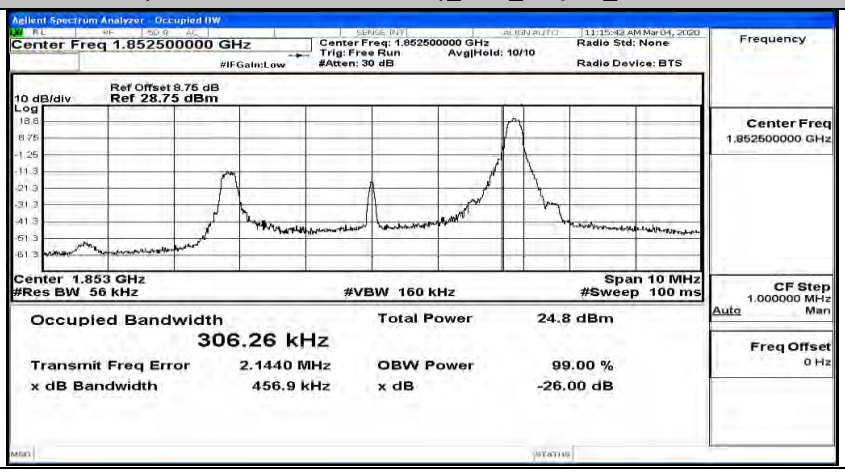
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



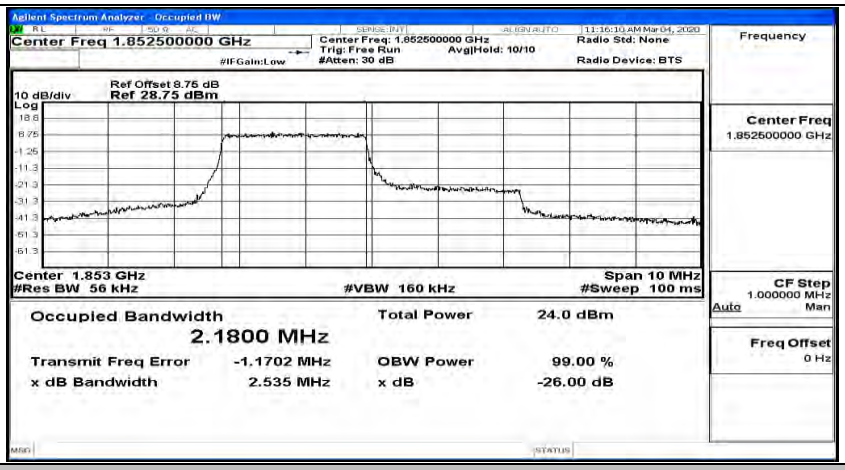
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



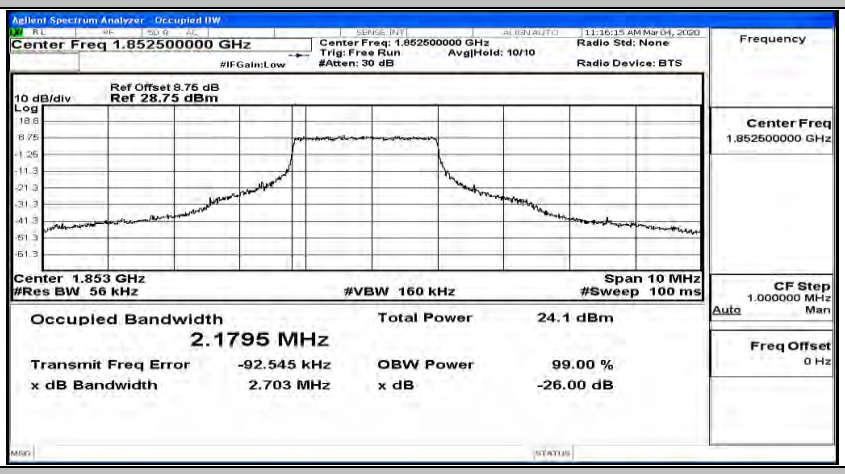
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



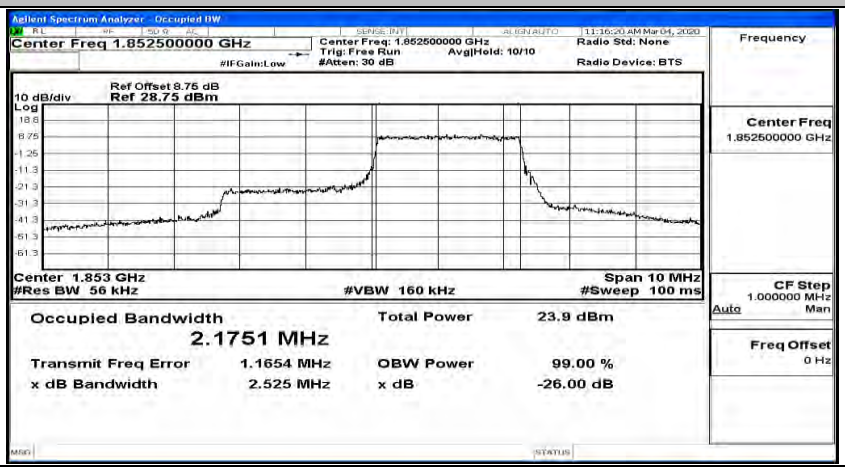
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



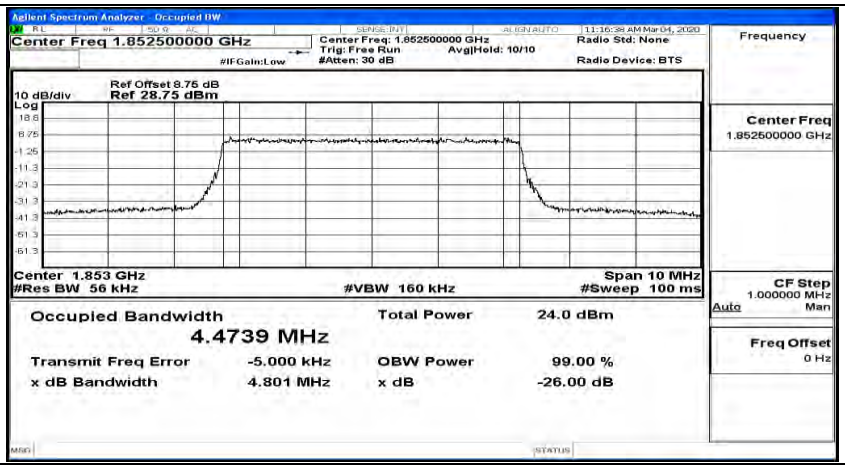
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



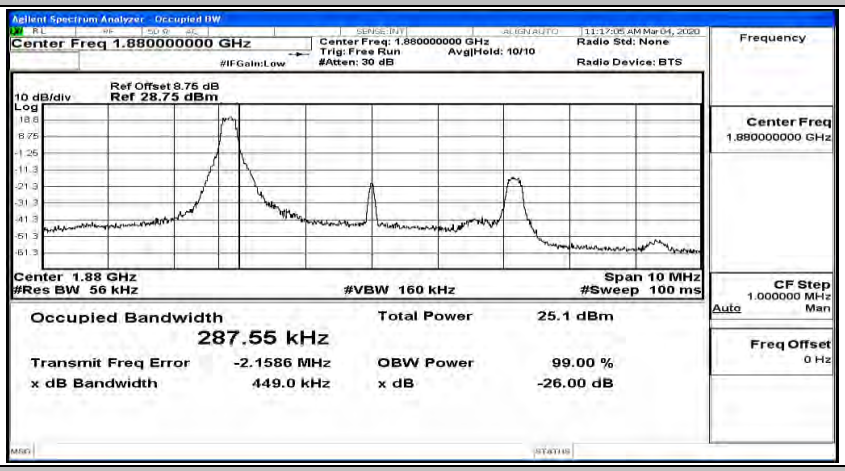
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



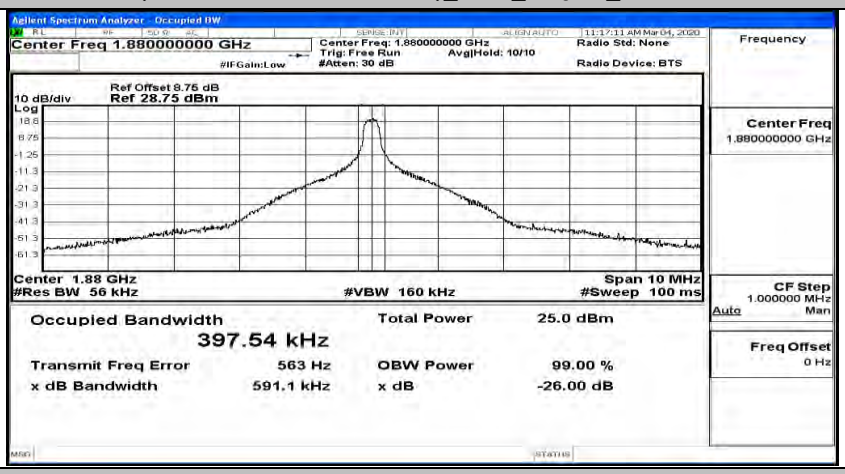
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



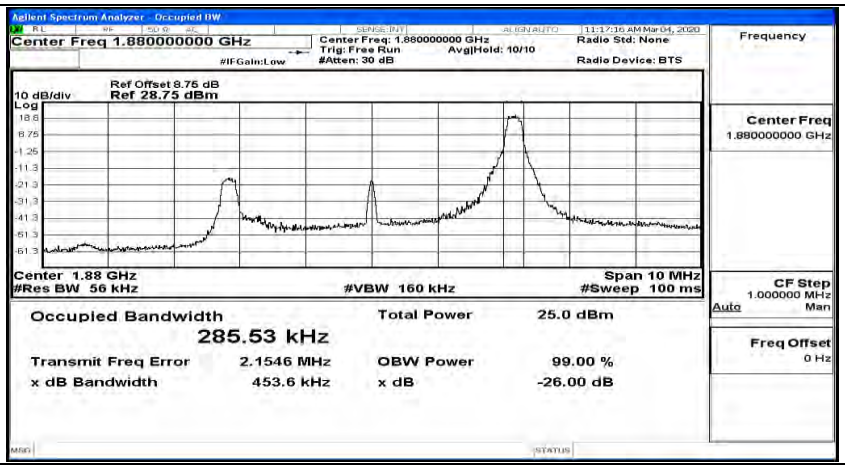
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



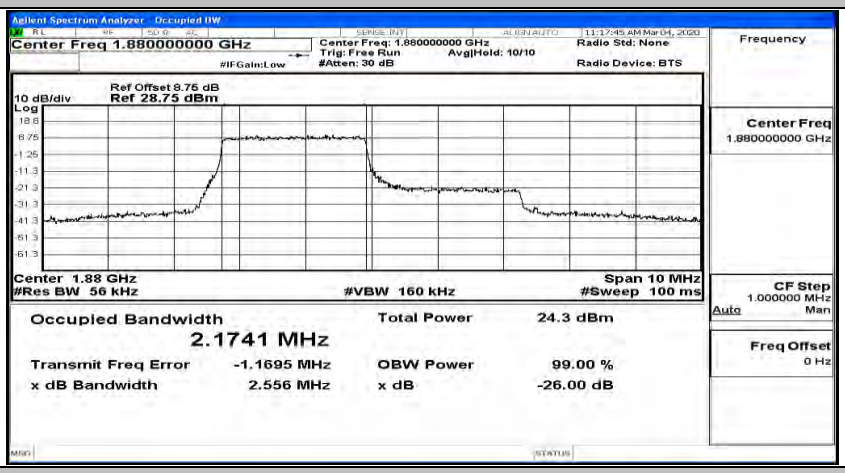
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



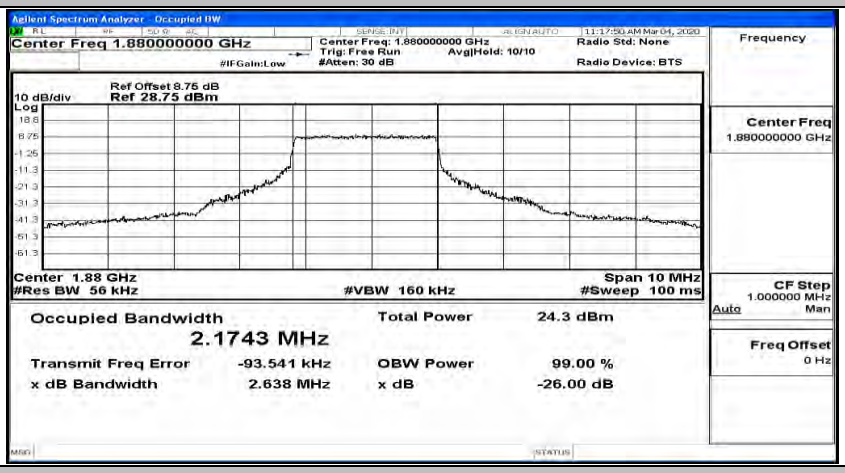
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



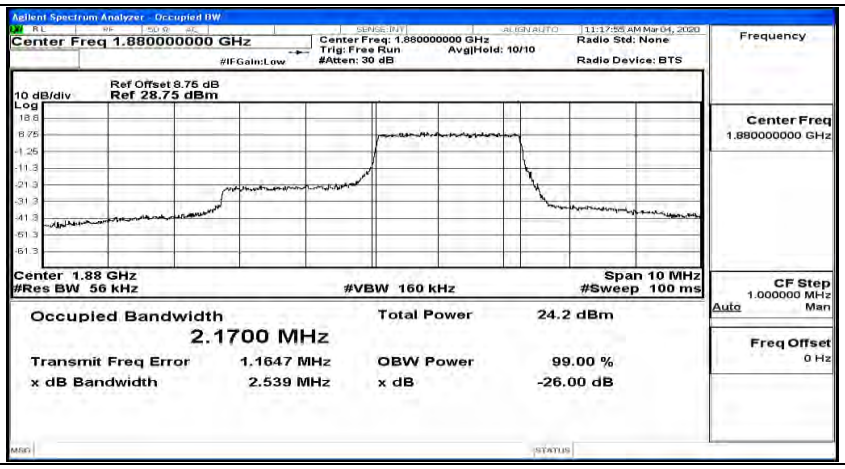
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



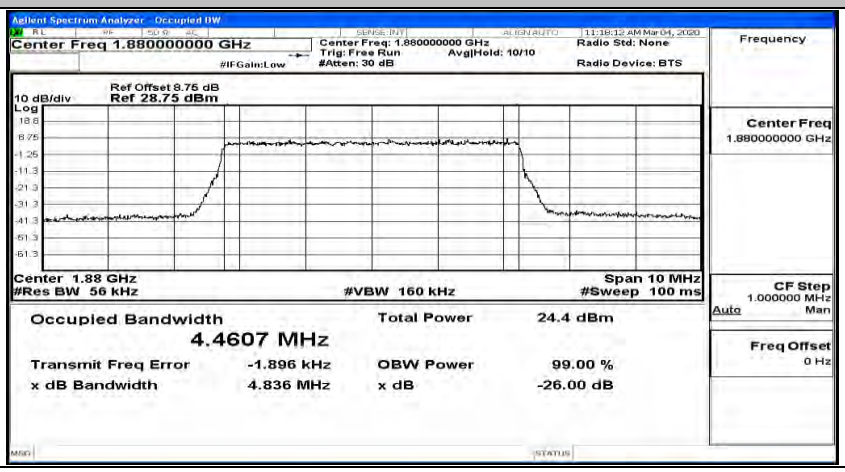
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6



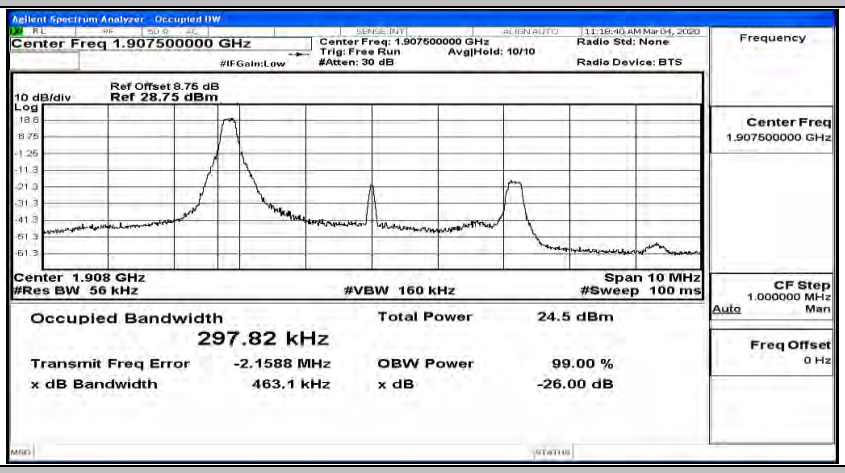
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



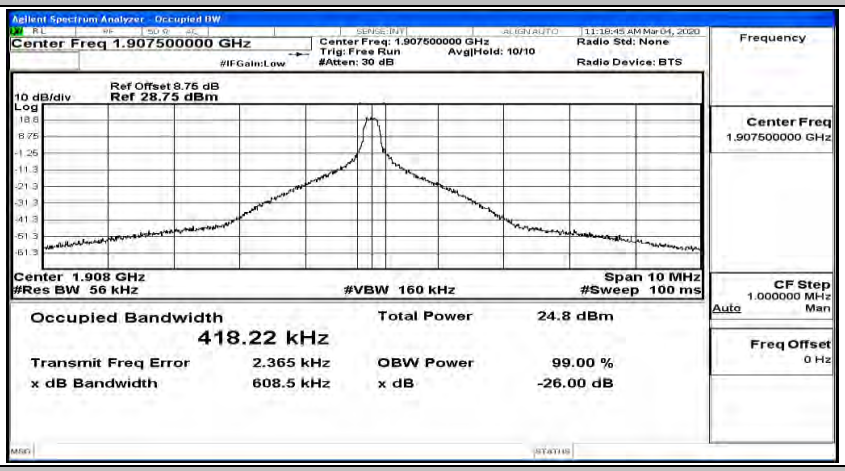
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



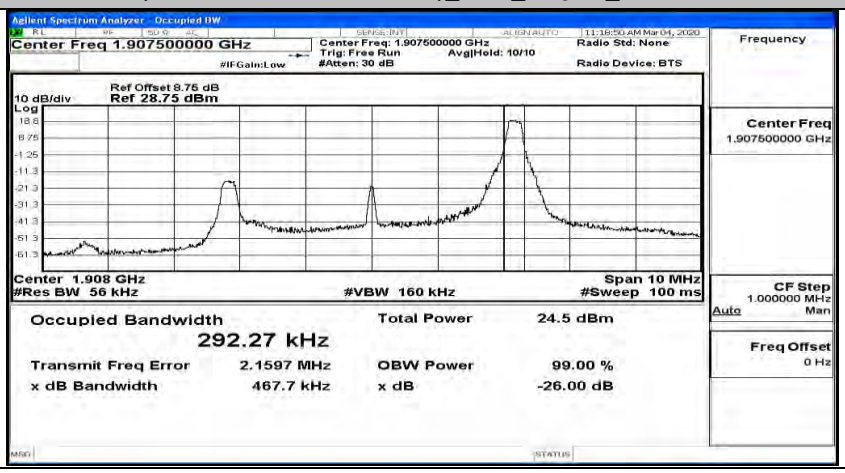
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



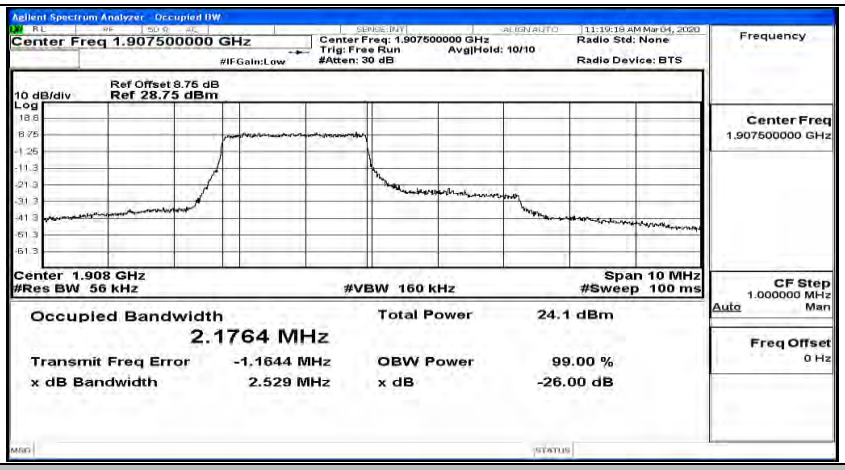
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



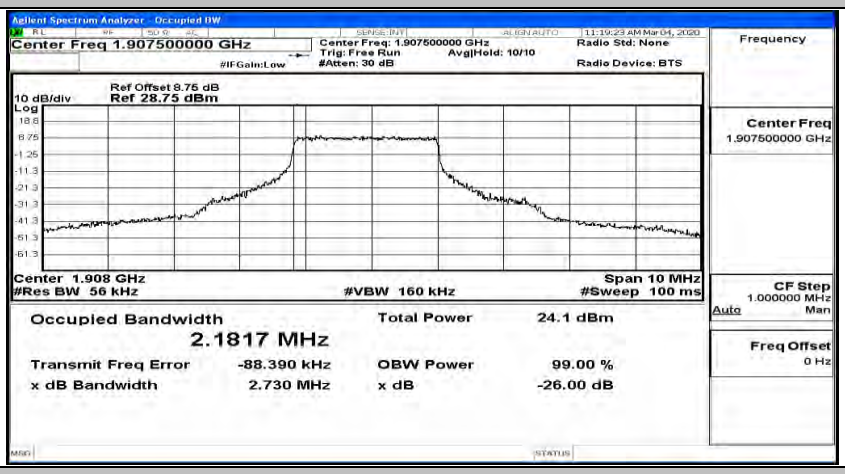
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



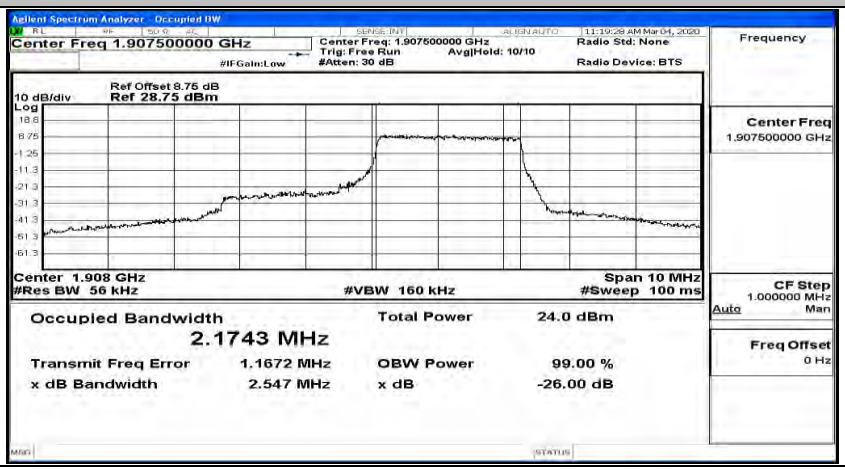
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



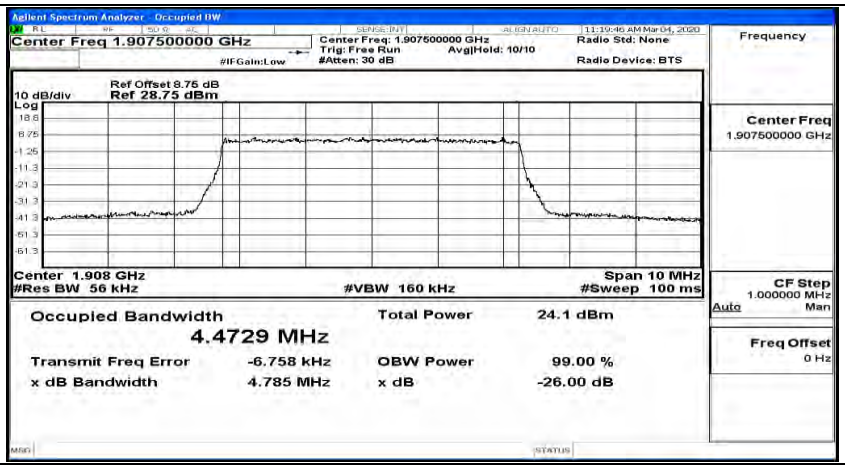
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

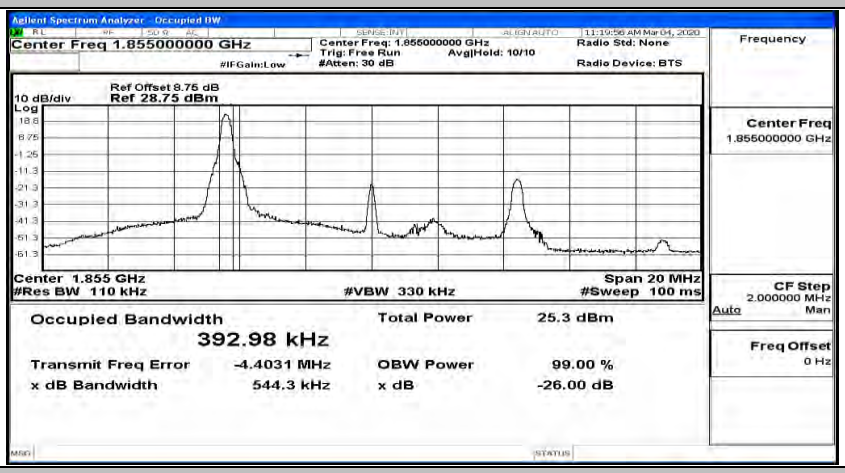


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

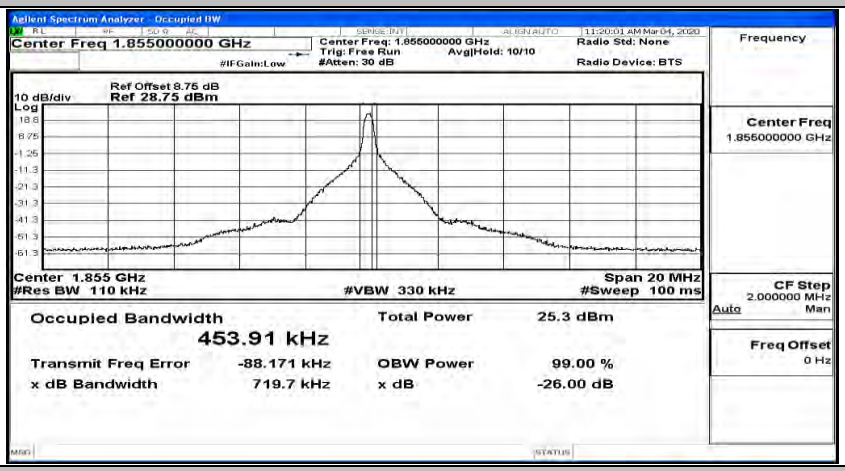
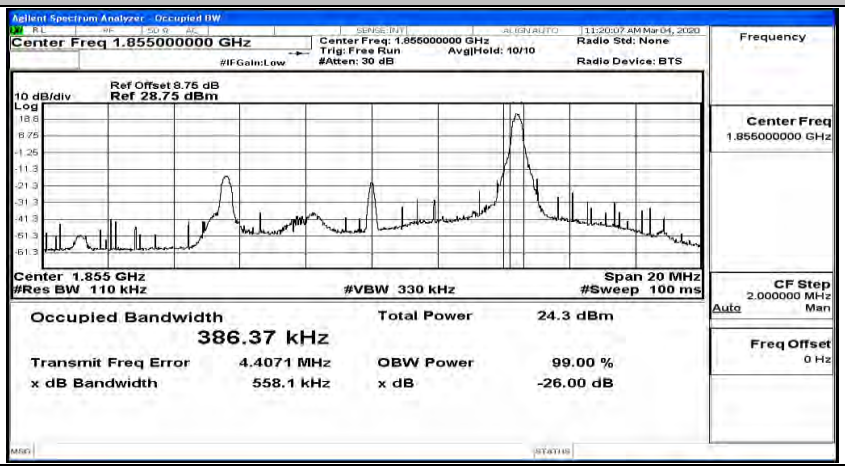

Agilent Spectrum Analyzer - Occupied BW
Center Freq 1.907500000 GHz
Center Freq: 1.907500000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 8.75 dB
10 dB/div
Ref 28.75 dBm
Log
Center Freq
1.907500000 GHz
Center 1.908 GHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms
CF Step
1.000000 MHz
Auto
Man
Occupied Bandwidth
4.4729 MHz
Total Power
24.1 dBm
Transmit Freq Error
-6.758 kHz
OBW Power
99.00 %
x dB Bandwidth
4.785 MHz
x dB
-26.00 dB
Freq Offset
0 Hz

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#25



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49