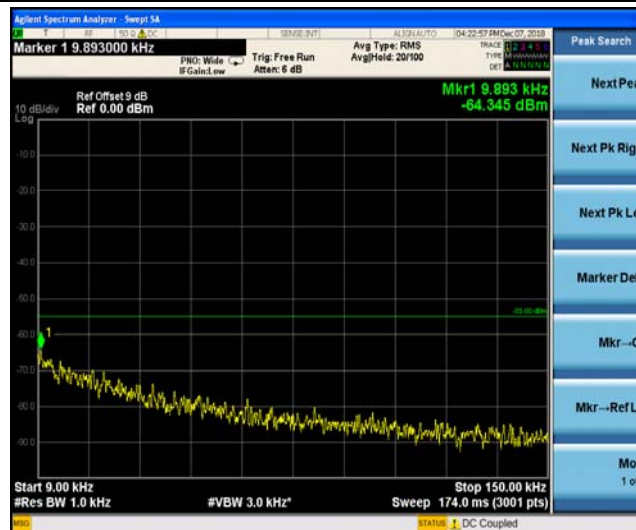
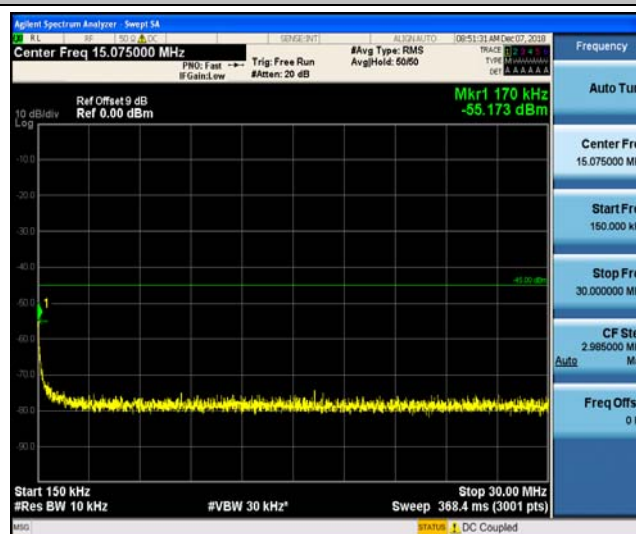




Band7_10MHz_QPSK_21100_1RB#0



Band7_10MHz_QPSK_21100_1RB#0



Band7_10MHz_QPSK_21100_1RB#0



Band7_10MHz_QPSK_21100_1RB#0



Band7_10MHz_QPSK_21100_1RB#0



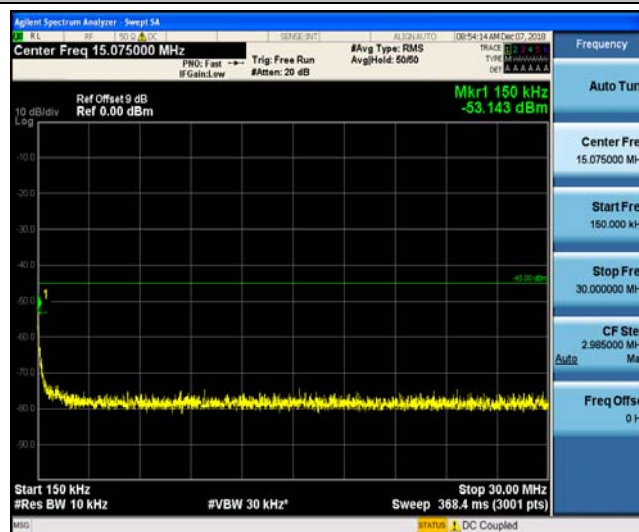
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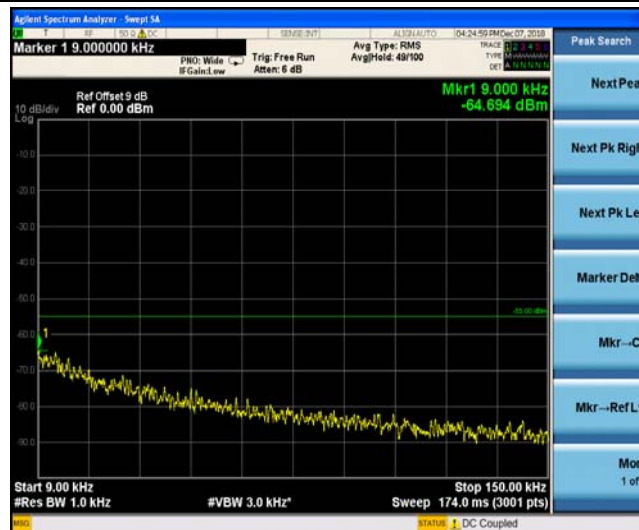
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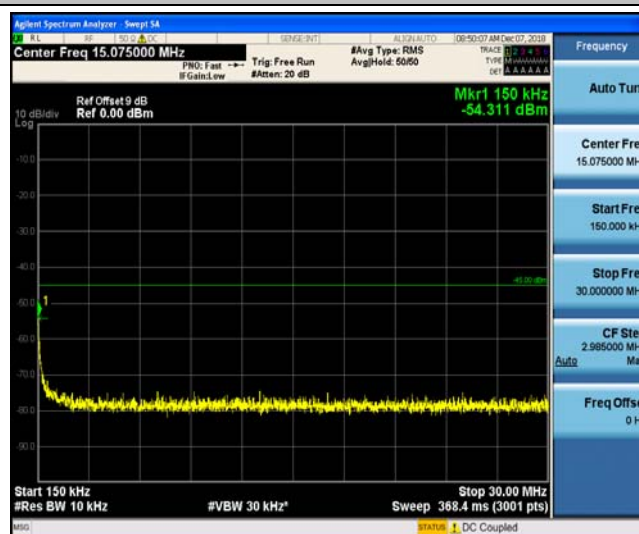
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Band7_10MHz_16QAM_20800_1RB#0



Band7_10MHz_16QAM_20800_1RB#0



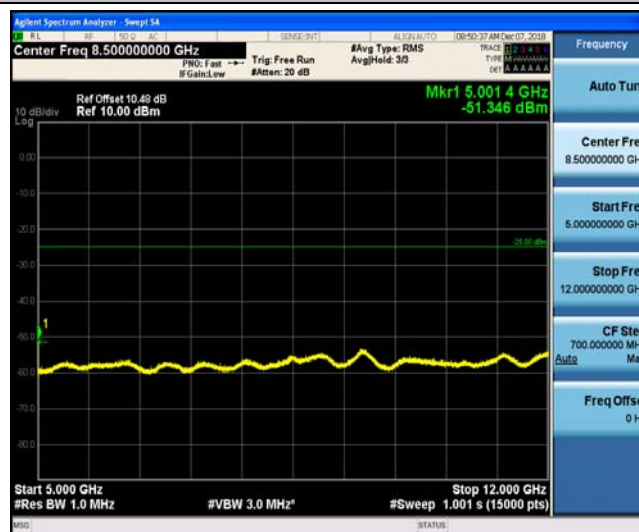
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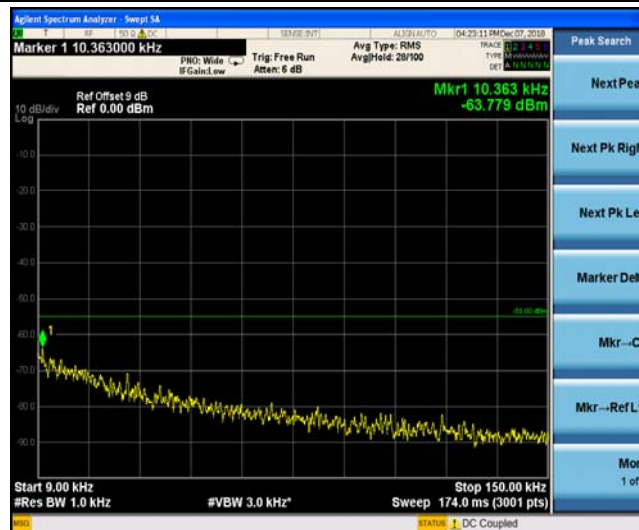
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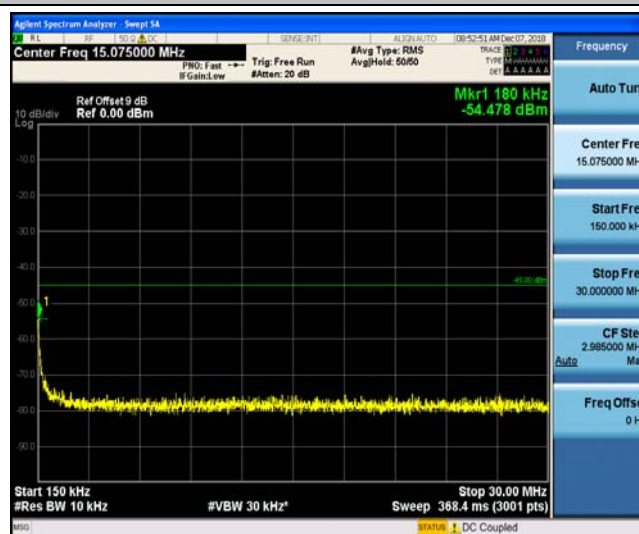
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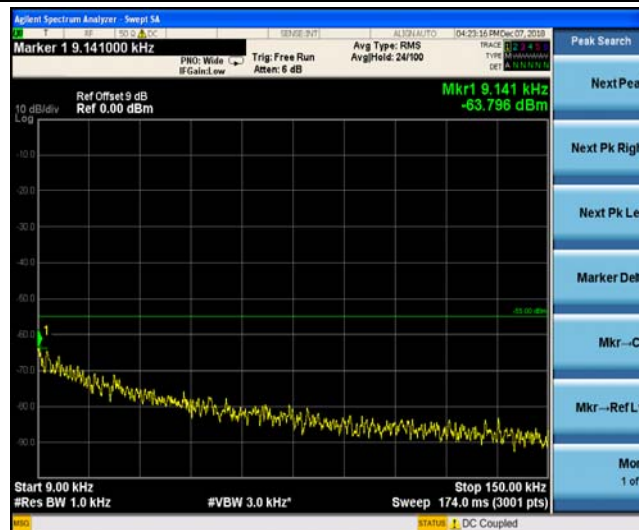
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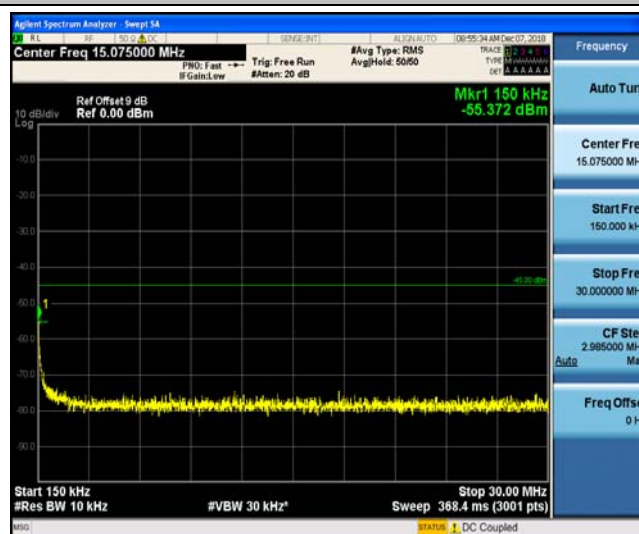
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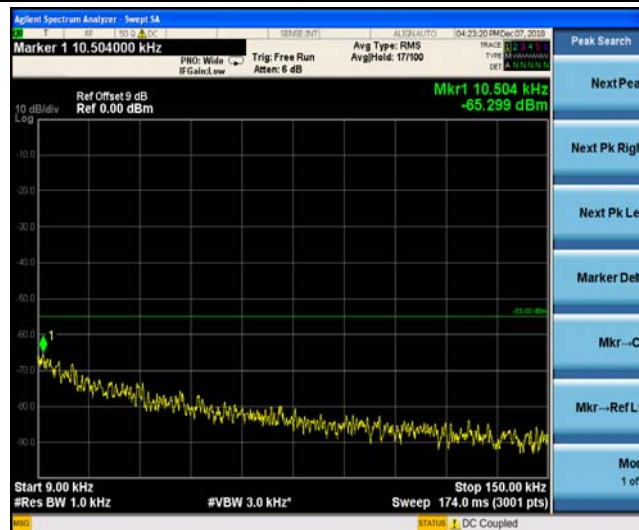
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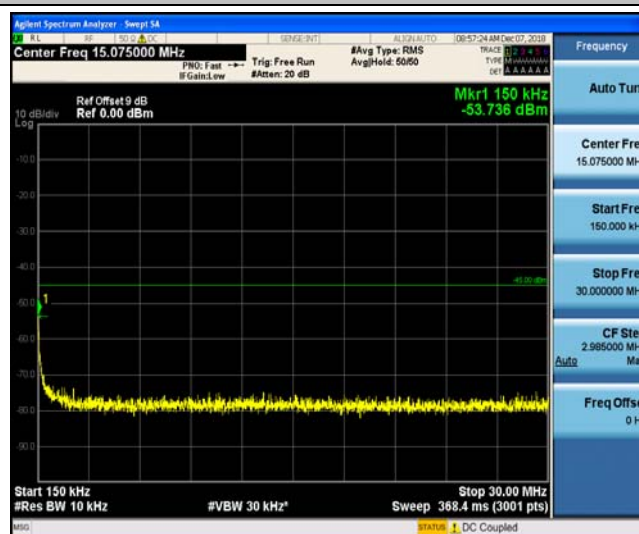
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Band7_15MHz_QPSK_20825_1RB#0



Band7_15MHz_QPSK_20825_1RB#0



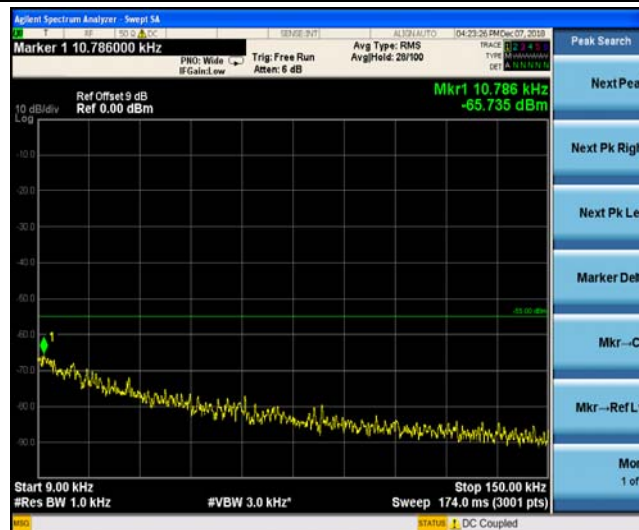
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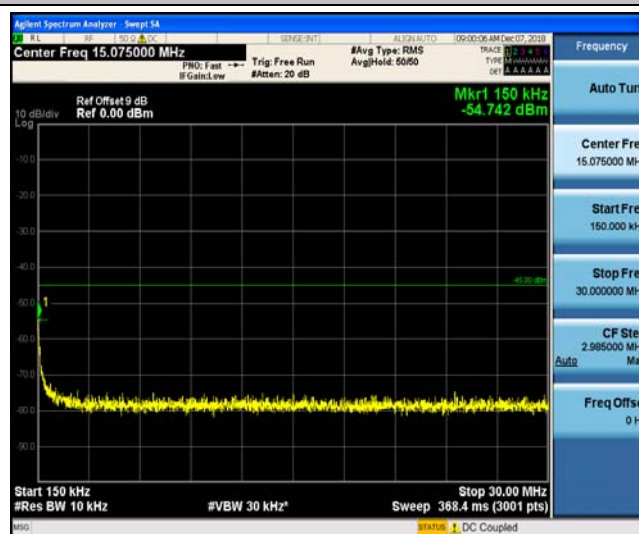
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Band7_15MHz_QPSK_21100_1RB#0



Band7_15MHz_QPSK_21100_1RB#0



Band7_15MHz_QPSK_21100_1RB#0



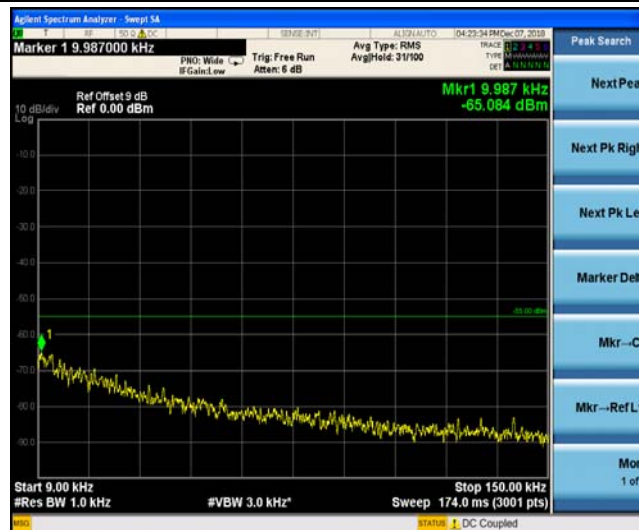
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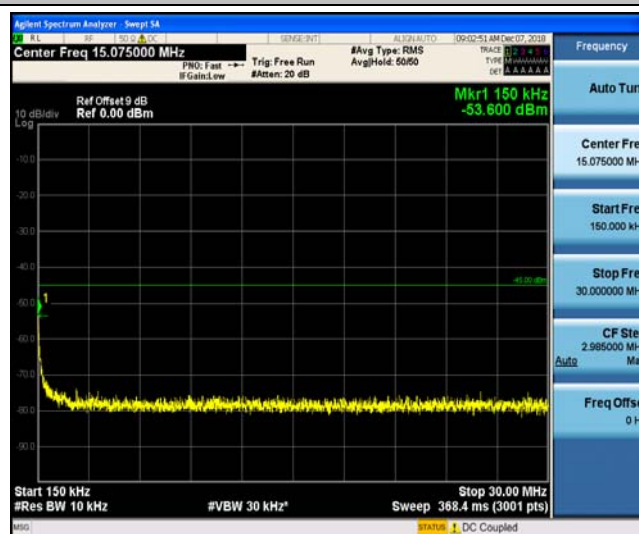
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Band7_15MHz_QPSK_21375_1RB#0



Band7_15MHz_QPSK_21375_1RB#0



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Band7_15MHz_QPSK_21375_1RB#0



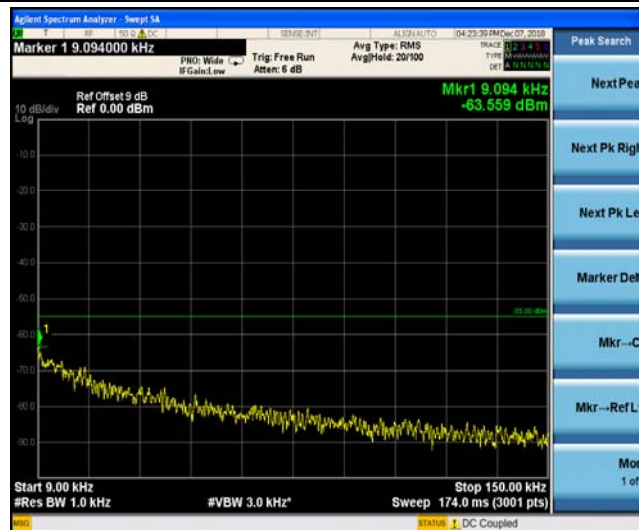
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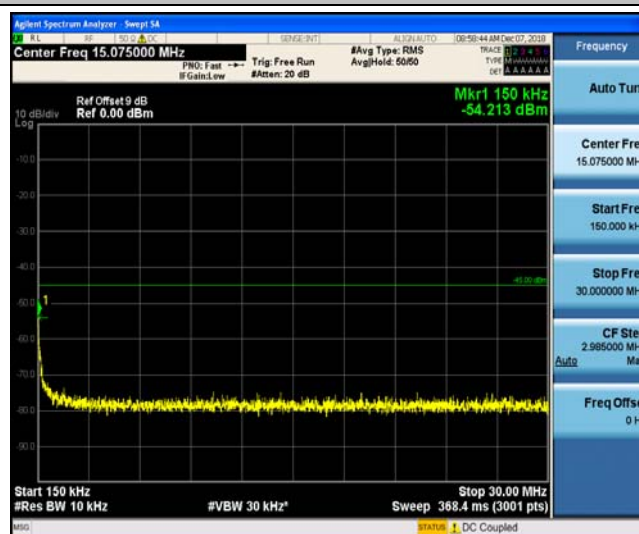
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Band7_15MHz_16QAM_20825_1RB#0



Band7_15MHz_16QAM_20825_1RB#0



Band7_15MHz_16QAM_20825_1RB#0



Band7_15MHz_16QAM_20825_1RB#0



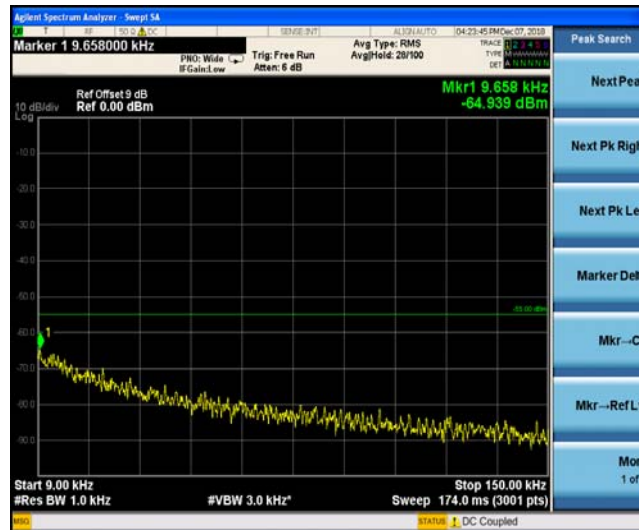
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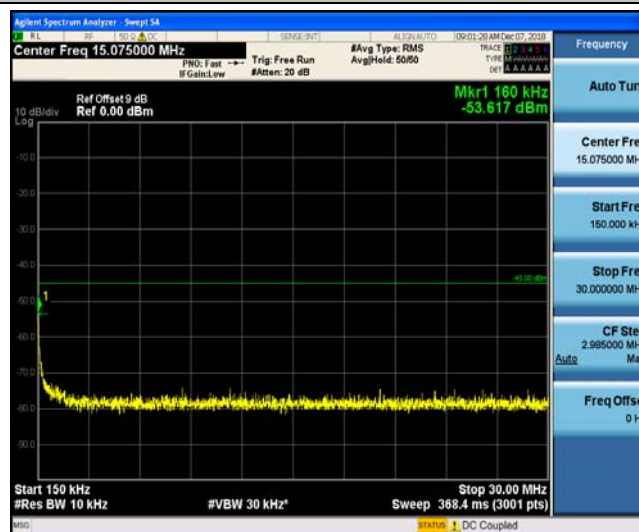
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Band7_15MHz_16QAM_21100_1RB#0



Band7_15MHz_16QAM_21100_1RB#0



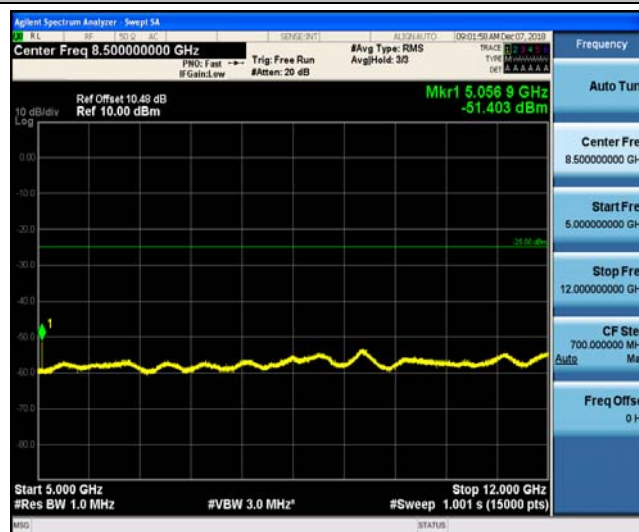
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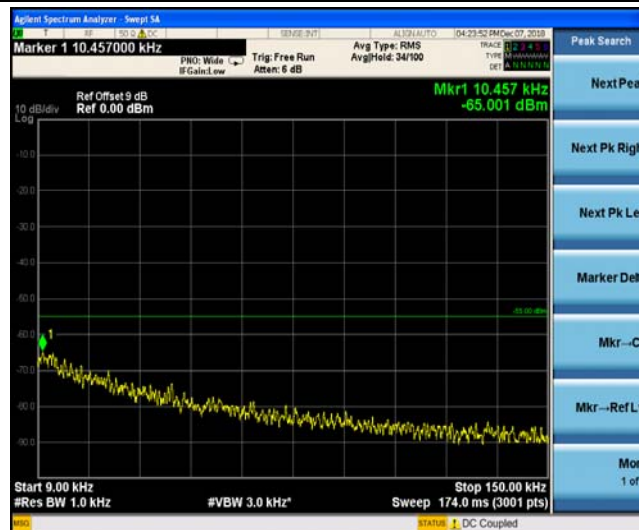
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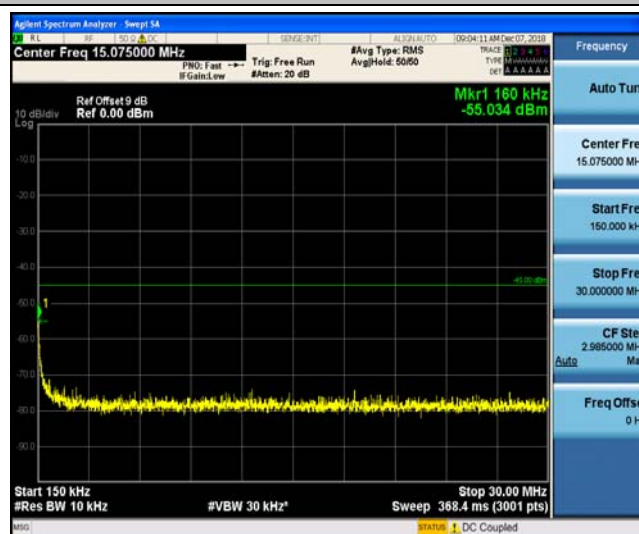
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Band7_15MHz_16QAM_21375_1RB#0



Band7_15MHz_16QAM_21375_1RB#0



Band7_15MHz_16QAM_21375_1RB#0



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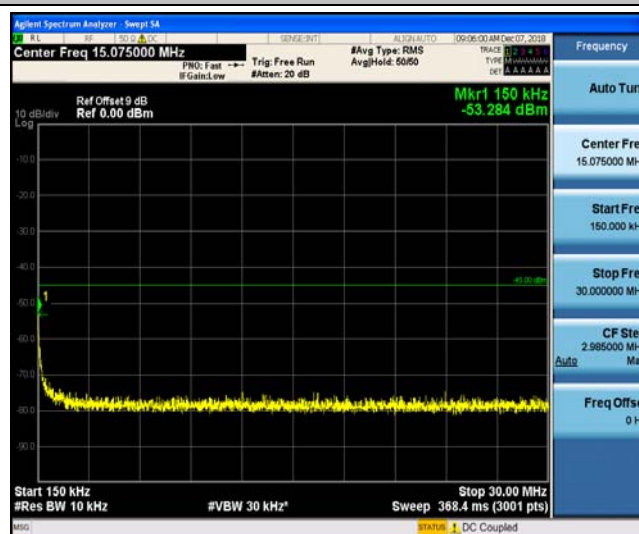
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Band7_20MHz_QPSK_20850_1RB#0



Band7_20MHz_QPSK_20850_1RB#0



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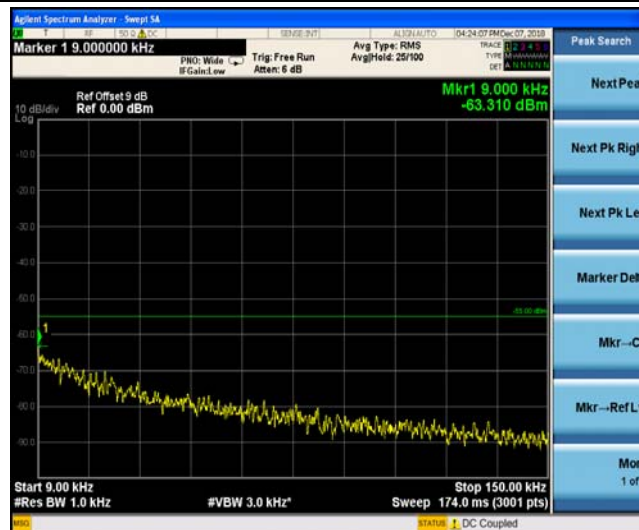
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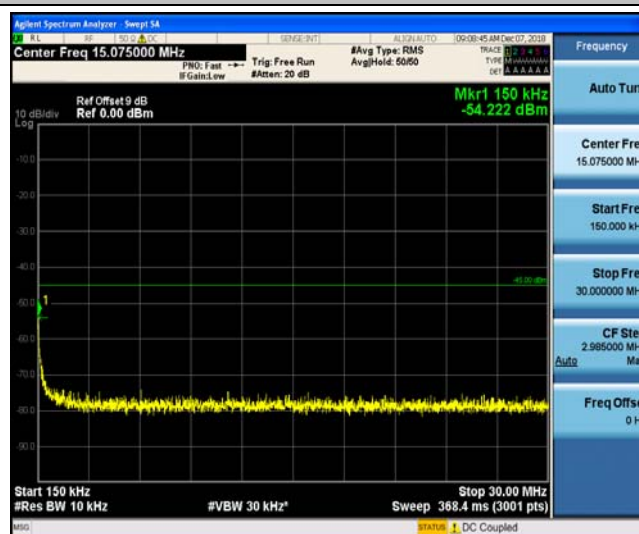
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Band7_20MHz_QPSK_21100_1RB#0



Band7_20MHz_QPSK_21100_1RB#0



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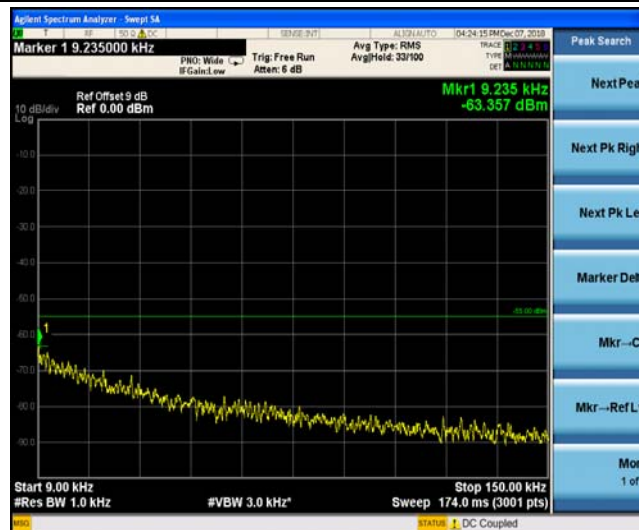
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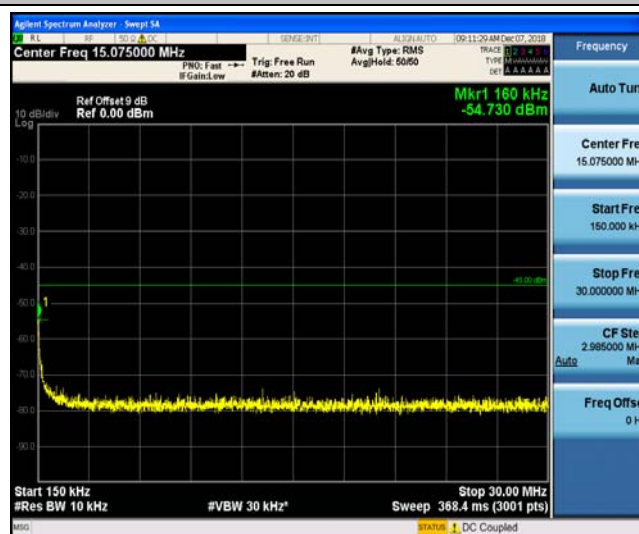
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Band7_20MHz_QPSK_21350_1RB#0



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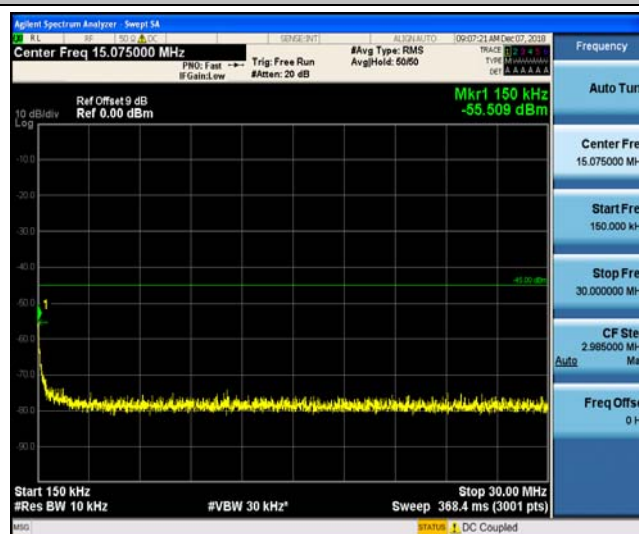
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Band7_20MHz_16QAM_20850_1RB#0



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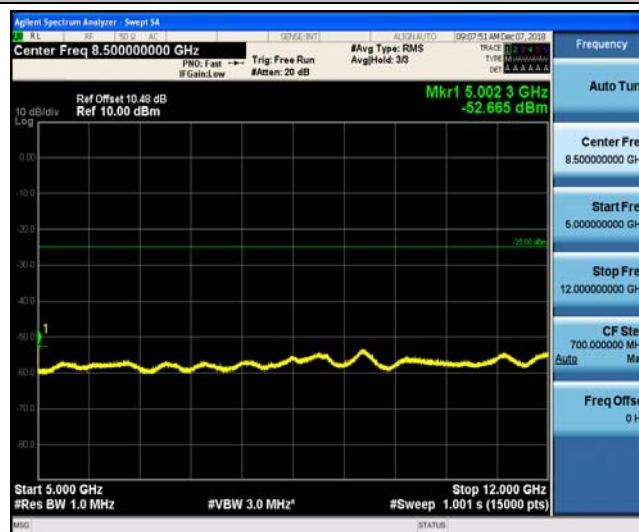
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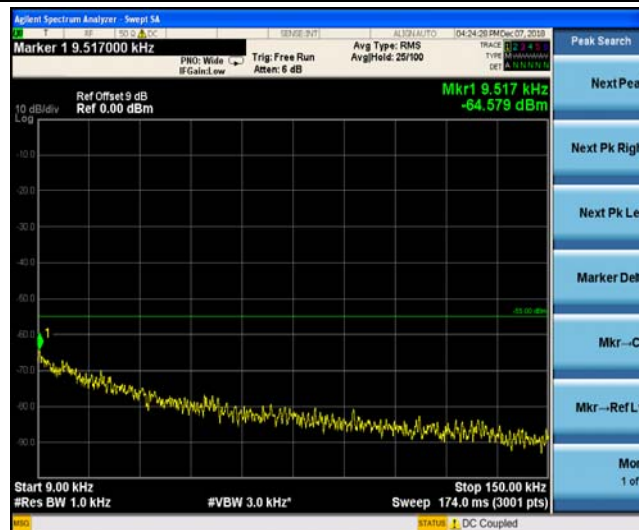
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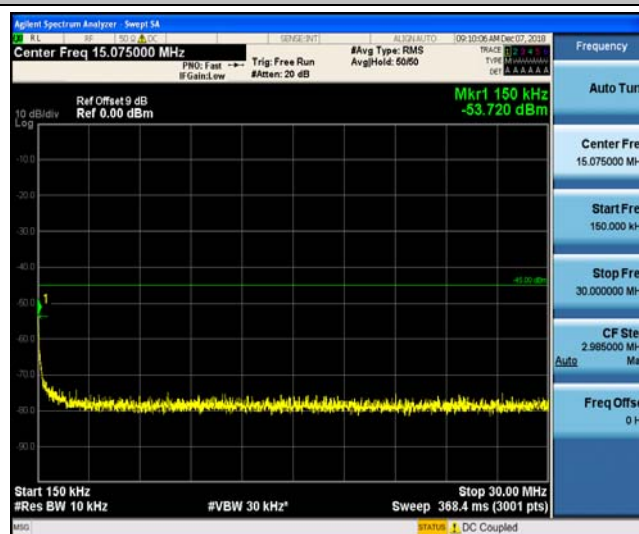
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Band7_20MHz_16QAM_21100_1RB#0



Band7_20MHz_16QAM_21100_1RB#0



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Band7_20MHz_16QAM_21100_1RB#0



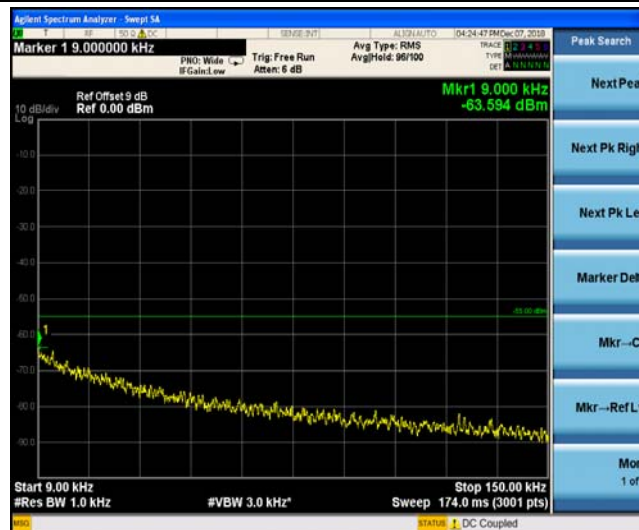
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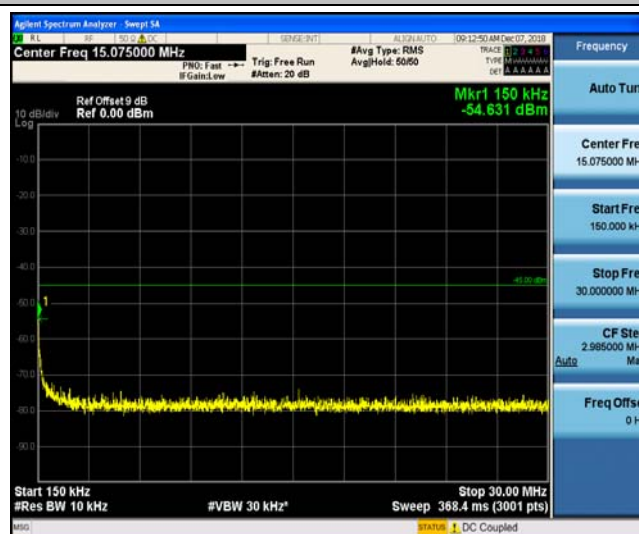
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Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Band7_20MHz_16QAM_21350_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.31	0.000523	± 2.5	PASS
		VN	TN	4.57	0.001826	± 2.5	PASS
		VH	TN	3.57	0.001427	± 2.5	PASS
	MCH	VL	TN	1.65	0.000651	± 2.5	PASS
		VN	TN	0.58	0.000229	± 2.5	PASS
		VH	TN	-1.8	-0.000710	± 2.5	PASS
	HCH	VL	TN	0.85	0.000331	± 2.5	PASS
		VN	TN	4.24	0.001651	± 2.5	PASS
		VH	TN	2.54	0.000989	± 2.5	PASS
16QAM	LCH	VL	TN	4.65	0.001858	± 2.5	PASS
		VN	TN	-0.62	-0.000248	± 2.5	PASS
		VH	TN	-1.65	-0.000659	± 2.5	PASS
	MCH	VL	TN	0.33	0.000130	± 2.5	PASS
		VN	TN	4.59	0.001811	± 2.5	PASS
		VH	TN	-1.35	-0.000533	± 2.5	PASS
	HCH	VL	TN	4.97	0.001936	± 2.5	PASS
		VN	TN	2.98	0.001161	± 2.5	PASS
		VH	TN	4.71	0.001834	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.41	0.001363	± 2.5	PASS
		VN	-20	1.31	0.000523	± 2.5	PASS
		VN	-10	1.76	0.000703	± 2.5	PASS
		VN	0	2.23	0.000891	± 2.5	PASS
		VN	10	2.16	0.000863	± 2.5	PASS
		VN	20	4.95	0.001978	± 2.5	PASS
		VN	30	-1.11	-0.000444	± 2.5	PASS
		VN	40	2.25	0.000899	± 2.5	PASS
		VN	50	1.96	0.000783	± 2.5	PASS
	MCH	VN	-30	2.09	0.000824	± 2.5	PASS
		VN	-20	-0.13	-0.000051	± 2.5	PASS

		VN	-10	1.75	0.000690	± 2.5	PASS
		VN	0	0.98	0.000387	± 2.5	PASS
		VN	10	4.58	0.001807	± 2.5	PASS
		VN	20	1.46	0.000576	± 2.5	PASS
		VN	30	4.83	0.001905	± 2.5	PASS
		VN	40	-1.41	-0.000556	± 2.5	PASS
		VN	50	-0.83	-0.000327	± 2.5	PASS
	HCH	VN	-30	-1.73	-0.000674	± 2.5	PASS
		VN	-20	1.99	0.000775	± 2.5	PASS
		VN	-10	-1.05	-0.000409	± 2.5	PASS
		VN	0	0.94	0.000366	± 2.5	PASS
		VN	10	-0.56	-0.000218	± 2.5	PASS
		VN	20	2.16	0.000841	± 2.5	PASS
		VN	30	-1.07	-0.000417	± 2.5	PASS
		VN	40	2	0.000779	± 2.5	PASS
		VN	50	2.95	0.001149	± 2.5	PASS
16QAM	LCH	VN	-30	4.27	0.001706	± 2.5	PASS
		VN	-20	-0.69	-0.000276	± 2.5	PASS
		VN	-10	0.02	0.000008	± 2.5	PASS
		VN	0	4.91	0.001962	± 2.5	PASS
		VN	10	3.34	0.001335	± 2.5	PASS
		VN	20	-0.27	-0.000108	± 2.5	PASS
		VN	30	2.15	0.000859	± 2.5	PASS
		VN	40	2.27	0.000907	± 2.5	PASS
		VN	50	4.34	0.001734	± 2.5	PASS
	MCH	VN	-30	4.93	0.001945	± 2.5	PASS
		VN	-20	-0.26	-0.000103	± 2.5	PASS
		VN	-10	-1.74	-0.000686	± 2.5	PASS
		VN	0	1.28	0.000505	± 2.5	PASS
		VN	10	1.51	0.000596	± 2.5	PASS
		VN	20	4.7	0.001854	± 2.5	PASS
		VN	30	1.44	0.000568	± 2.5	PASS
		VN	40	2.7	0.001065	± 2.5	PASS
		VN	50	0.76	0.000300	± 2.5	PASS
	HCH	VN	-30	0.66	0.000257	± 2.5	PASS
		VN	-20	-1.71	-0.000666	± 2.5	PASS
		VN	-10	3.48	0.001355	± 2.5	PASS
		VN	0	1.01	0.000393	± 2.5	PASS
		VN	10	0.41	0.000160	± 2.5	PASS
		VN	20	-0.51	-0.000199	± 2.5	PASS
		VN	30	0.56	0.000218	± 2.5	PASS

		VN	40	2.85	0.001110	± 2.5	PASS
		VN	50	0.07	0.000027	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.03	0.000411	± 2.5	PASS
		VN	TN	3.45	0.001377	± 2.5	PASS
		VH	TN	1.35	0.000539	± 2.5	PASS
	MCH	VL	TN	3.77	0.001487	± 2.5	PASS
		VN	TN	-0.62	-0.000245	± 2.5	PASS
		VH	TN	-0.37	-0.000146	± 2.5	PASS
	HCH	VL	TN	1.77	0.000690	± 2.5	PASS
		VN	TN	1.95	0.000760	± 2.5	PASS
		VH	TN	0.3	0.000117	± 2.5	PASS
16QAM	LCH	VL	TN	-0.97	-0.000387	± 2.5	PASS
		VN	TN	0.56	0.000224	± 2.5	PASS
		VH	TN	-0.48	-0.000192	± 2.5	PASS
	MCH	VL	TN	2.79	0.001101	± 2.5	PASS
		VN	TN	3.43	0.001353	± 2.5	PASS
		VH	TN	-1.53	-0.000604	± 2.5	PASS
	HCH	VL	TN	1.93	0.000752	± 2.5	PASS
		VN	TN	2.69	0.001049	± 2.5	PASS
		VH	TN	2.64	0.001029	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.5	-0.000200	± 2.5	PASS
		VN	-20	-0.83	-0.000331	± 2.5	PASS
		VN	-10	-1.12	-0.000447	± 2.5	PASS
		VN	0	2.98	0.001190	± 2.5	PASS
		VN	10	3.6	0.001437	± 2.5	PASS
		VN	20	0.73	0.000291	± 2.5	PASS
		VN	30	4.96	0.001980	± 2.5	PASS
		VN	40	1.01	0.000403	± 2.5	PASS
		VN	50	3.91	0.001561	± 2.5	PASS
	MCH	VN	-30	2.24	0.000884	± 2.5	PASS
		VN	-20	0.51	0.000201	± 2.5	PASS
		VN	-10	0.31	0.000122	± 2.5	PASS

		VN	0	-0.08	-0.000032	± 2.5	PASS
		VN	10	-0.6	-0.000237	± 2.5	PASS
		VN	20	-1.08	-0.000426	± 2.5	PASS
		VN	30	4.41	0.001740	± 2.5	PASS
		VN	40	1.96	0.000773	± 2.5	PASS
		VN	50	1.06	0.000418	± 2.5	PASS
	HCH	VN	-30	-0.6	-0.000234	± 2.5	PASS
		VN	-20	3.25	0.001267	± 2.5	PASS
		VN	-10	4.49	0.001750	± 2.5	PASS
		VN	0	0.9	0.000351	± 2.5	PASS
		VN	10	-1.52	-0.000593	± 2.5	PASS
		VN	20	0.7	0.000273	± 2.5	PASS
		VN	30	2.36	0.000920	± 2.5	PASS
		VN	40	3.47	0.001353	± 2.5	PASS
		VN	50	2.51	0.000979	± 2.5	PASS
QPSK	LCH	VN	-30	3.32	0.001325	± 2.5	PASS
		VN	-20	0.94	0.000375	± 2.5	PASS
		VN	-10	4.5	0.001796	± 2.5	PASS
		VN	0	2.31	0.000922	± 2.5	PASS
		VN	10	-0.98	-0.000391	± 2.5	PASS
		VN	20	1.34	0.000535	± 2.5	PASS
		VN	30	2.14	0.000854	± 2.5	PASS
		VN	40	-1.02	-0.000407	± 2.5	PASS
		VN	50	-0.93	-0.000371	± 2.5	PASS
	MCH	VN	-30	4.26	0.001680	± 2.5	PASS
		VN	-20	-1.02	-0.000402	± 2.5	PASS
		VN	-10	3.35	0.001321	± 2.5	PASS
		VN	0	1.56	0.000615	± 2.5	PASS
		VN	10	3.66	0.001444	± 2.5	PASS
		VN	20	0.26	0.000103	± 2.5	PASS
		VN	30	2.66	0.001049	± 2.5	PASS
		VN	40	2.4	0.000947	± 2.5	PASS
		VN	50	4.49	0.001771	± 2.5	PASS
	HCH	VN	-30	-0.22	-0.000086	± 2.5	PASS
		VN	-20	3.41	0.001329	± 2.5	PASS
		VN	-10	0.28	0.000109	± 2.5	PASS
		VN	0	4.89	0.001906	± 2.5	PASS
		VN	10	2.84	0.001107	± 2.5	PASS
		VN	20	-0.19	-0.000074	± 2.5	PASS
		VN	30	3.33	0.001298	± 2.5	PASS
		VN	40	1.36	0.000530	± 2.5	PASS

		VN	50	-1.66	-0.000647	± 2.5	PASS
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Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.15	-0.000060	± 2.5	PASS
		VN	TN	-1.96	-0.000782	± 2.5	PASS
		VH	TN	4.8	0.001914	± 2.5	PASS
	MCH	VL	TN	1.78	0.000702	± 2.5	PASS
		VN	TN	3.84	0.001515	± 2.5	PASS
		VH	TN	2.85	0.001124	± 2.5	PASS
	HCH	VL	TN	3.09	0.001206	± 2.5	PASS
		VN	TN	0.06	0.000023	± 2.5	PASS
		VH	TN	4.55	0.001776	± 2.5	PASS
16QAM	LCH	VL	TN	0.56	0.000223	± 2.5	PASS
		VN	TN	2.91	0.001161	± 2.5	PASS
		VH	TN	1.08	0.000431	± 2.5	PASS
	MCH	VL	TN	2.59	0.001022	± 2.5	PASS
		VN	TN	-0.54	-0.000213	± 2.5	PASS
		VH	TN	2.69	0.001061	± 2.5	PASS
	HCH	VL	TN	-0.13	-0.000051	± 2.5	PASS
		VN	TN	0.2	0.000078	± 2.5	PASS
		VH	TN	4.57	0.001783	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.43	0.000171	± 2.5	PASS
		VN	-20	0.61	0.000243	± 2.5	PASS
		VN	-10	-1.09	-0.000435	± 2.5	PASS
		VN	0	2.25	0.000897	± 2.5	PASS
		VN	10	-0.09	-0.000036	± 2.5	PASS
		VN	20	2.45	0.000977	± 2.5	PASS
		VN	30	-0.51	-0.000203	± 2.5	PASS
		VN	40	0.4	0.000160	± 2.5	PASS
		VN	50	-1.11	-0.000443	± 2.5	PASS
	MCH	VN	-30	-1.09	-0.000430	± 2.5	PASS
		VN	-20	4.75	0.001874	± 2.5	PASS
		VN	-10	4.91	0.001937	± 2.5	PASS
		VN	0	-0.67	-0.000264	± 2.5	PASS

		VN	10	3.11	0.001227	± 2.5	PASS
		VN	20	2.54	0.001002	± 2.5	PASS
		VN	30	2.43	0.000959	± 2.5	PASS
		VN	40	4.48	0.001767	± 2.5	PASS
		VN	50	1.27	0.000501	± 2.5	PASS
	HCH	VN	-30	-0.25	-0.000098	± 2.5	PASS
		VN	-20	1.25	0.000488	± 2.5	PASS
		VN	-10	-1.93	-0.000753	± 2.5	PASS
		VN	0	2.9	0.001132	± 2.5	PASS
		VN	10	0.06	0.000023	± 2.5	PASS
		VN	20	2.49	0.000972	± 2.5	PASS
		VN	30	4.34	0.001694	± 2.5	PASS
		VN	40	1.47	0.000574	± 2.5	PASS
		VN	50	1.63	0.000636	± 2.5	PASS
16QAM	LCH	VN	-30	3.62	0.001444	± 2.5	PASS
		VN	-20	4.59	0.001831	± 2.5	PASS
		VN	-10	1.89	0.000754	± 2.5	PASS
		VN	0	3.41	0.001360	± 2.5	PASS
		VN	10	-1.78	-0.000710	± 2.5	PASS
		VN	20	-1.89	-0.000754	± 2.5	PASS
		VN	30	1.19	0.000475	± 2.5	PASS
		VN	40	3.33	0.001328	± 2.5	PASS
		VN	50	1.83	0.000730	± 2.5	PASS
	MCH	VN	-30	3.7	0.001460	± 2.5	PASS
		VN	-20	-1.89	-0.000746	± 2.5	PASS
		VN	-10	4.12	0.001625	± 2.5	PASS
		VN	0	-0.32	-0.000126	± 2.5	PASS
		VN	10	2.73	0.001077	± 2.5	PASS
		VN	20	3.76	0.001483	± 2.5	PASS
		VN	30	-0.38	-0.000150	± 2.5	PASS
		VN	40	3.17	0.001250	± 2.5	PASS
		VN	50	2.14	0.000844	± 2.5	PASS
	HCH	VN	-30	0.23	0.000090	± 2.5	PASS
		VN	-20	-0.2	-0.000078	± 2.5	PASS
		VN	-10	2.64	0.001030	± 2.5	PASS
		VN	0	2.49	0.000972	± 2.5	PASS
		VN	10	-1.12	-0.000437	± 2.5	PASS
		VN	20	4	0.001561	± 2.5	PASS
		VN	30	3.04	0.001186	± 2.5	PASS
		VN	40	3.94	0.001538	± 2.5	PASS
		VN	50	4.47	0.001744	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.21	0.000880	± 2.5	PASS
		VN	TN	3.2	0.001275	± 2.5	PASS
		VH	TN	1.17	0.000466	± 2.5	PASS
	MCH	VL	TN	3.46	0.001365	± 2.5	PASS
		VN	TN	-0.47	-0.000185	± 2.5	PASS
		VH	TN	2.73	0.001077	± 2.5	PASS
	HCH	VL	TN	4.58	0.001789	± 2.5	PASS
		VN	TN	-1.48	-0.000578	± 2.5	PASS
		VH	TN	1.36	0.000531	± 2.5	PASS
16QAM	LCH	VL	TN	2.73	0.001088	± 2.5	PASS
		VN	TN	-1.74	-0.000693	± 2.5	PASS
		VH	TN	-1.15	-0.000458	± 2.5	PASS
	MCH	VL	TN	3.44	0.001357	± 2.5	PASS
		VN	TN	-0.83	-0.000327	± 2.5	PASS
		VH	TN	1.84	0.000726	± 2.5	PASS
	HCH	VL	TN	2.87	0.001121	± 2.5	PASS
		VN	TN	-1.57	-0.000613	± 2.5	PASS
		VH	TN	4.56	0.001781	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.84	0.001530	± 2.5	PASS
		VN	-20	3	0.001195	± 2.5	PASS
		VN	-10	-1.22	-0.000486	± 2.5	PASS
		VN	0	0.12	0.000048	± 2.5	PASS
		VN	10	3.65	0.001454	± 2.5	PASS
		VN	20	4.47	0.001781	± 2.5	PASS
		VN	30	3.85	0.001534	± 2.5	PASS
		VN	40	-1.55	-0.000618	± 2.5	PASS
		VN	50	2.96	0.001179	± 2.5	PASS
	MCH	VN	-30	1.65	0.000651	± 2.5	PASS
		VN	-20	2.93	0.001156	± 2.5	PASS
		VN	-10	4.14	0.001633	± 2.5	PASS
		VN	0	3.41	0.001345	± 2.5	PASS
		VN	10	0.6	0.000237	± 2.5	PASS
		VN	20	4.87	0.001921	± 2.5	PASS

		VN	30	-0.22	-0.000087	± 2.5	PASS
		VN	40	3.97	0.001566	± 2.5	PASS
		VN	50	1.52	0.000600	± 2.5	PASS
	HCH	VN	-30	3.22	0.001258	± 2.5	PASS
		VN	-20	3.67	0.001434	± 2.5	PASS
		VN	-10	2.25	0.000879	± 2.5	PASS
		VN	0	-0.26	-0.000102	± 2.5	PASS
		VN	10	2.51	0.000980	± 2.5	PASS
		VN	20	3.64	0.001422	± 2.5	PASS
		VN	30	1.24	0.000484	± 2.5	PASS
		VN	40	-1.54	-0.000602	± 2.5	PASS
		VN	50	-0.26	-0.000102	± 2.5	PASS
16QAM	LCH	VN	-30	2.14	0.000853	± 2.5	PASS
		VN	-20	4.52	0.001801	± 2.5	PASS
		VN	-10	0.95	0.000378	± 2.5	PASS
		VN	0	-0.2	-0.000080	± 2.5	PASS
		VN	10	4.24	0.001689	± 2.5	PASS
		VN	20	0.99	0.000394	± 2.5	PASS
		VN	30	4.97	0.001980	± 2.5	PASS
		VN	40	4.16	0.001657	± 2.5	PASS
		VN	50	4.74	0.001888	± 2.5	PASS
	MCH	VN	-30	-1.86	-0.000734	± 2.5	PASS
		VN	-20	4.55	0.001795	± 2.5	PASS
		VN	-10	-0.02	-0.000008	± 2.5	PASS
		VN	0	1.82	0.000718	± 2.5	PASS
		VN	10	4.88	0.001925	± 2.5	PASS
		VN	20	-0.01	-0.000004	± 2.5	PASS
		VN	30	-1.86	-0.000734	± 2.5	PASS
		VN	40	2.69	0.001061	± 2.5	PASS
		VN	50	2.26	0.000892	± 2.5	PASS
	HCH	VN	-30	1.79	0.000699	± 2.5	PASS
		VN	-20	2.56	0.001000	± 2.5	PASS
		VN	-10	-1.76	-0.000688	± 2.5	PASS
		VN	0	2.38	0.000930	± 2.5	PASS
		VN	10	2.22	0.000867	± 2.5	PASS
		VN	20	-0.16	-0.000063	± 2.5	PASS
		VN	30	-1.75	-0.000684	± 2.5	PASS
		VN	40	-1.40	-0.000547	± 2.5	PASS
		VN	50	4.18	0.001633	± 2.5	PASS