



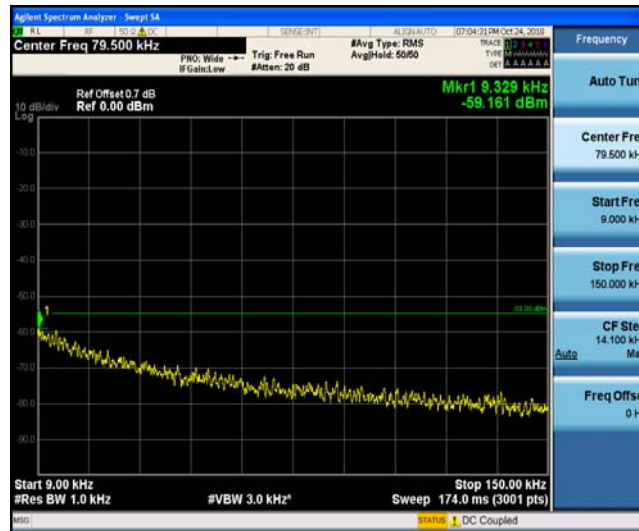
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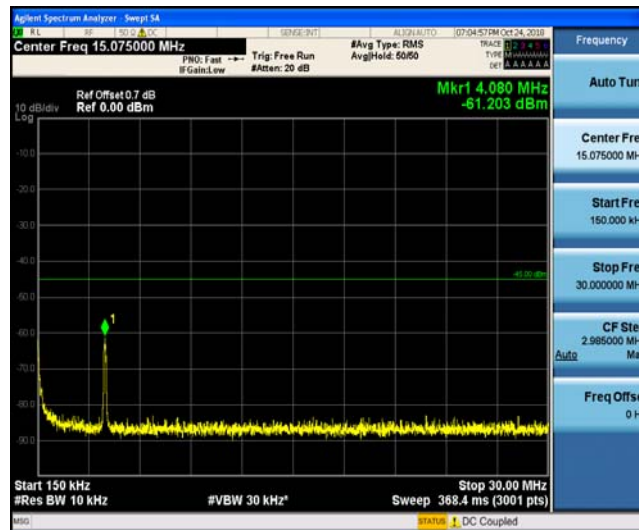
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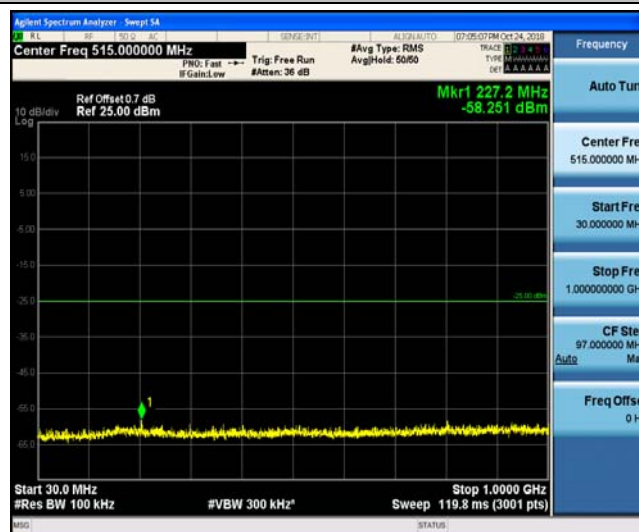
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Band7_5MHz_16QAM_21425_1RB#0



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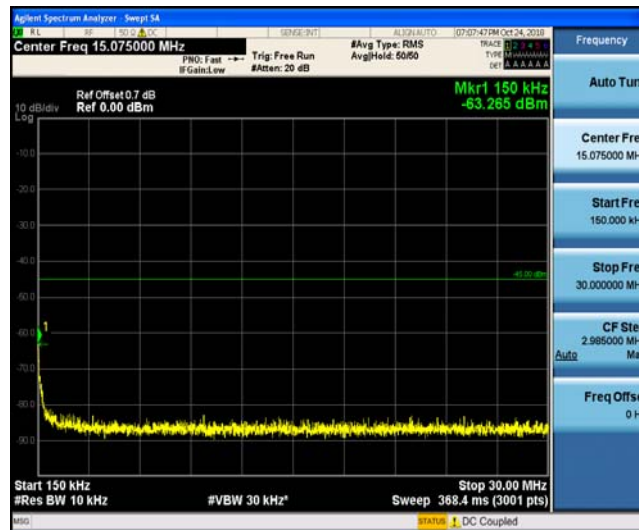
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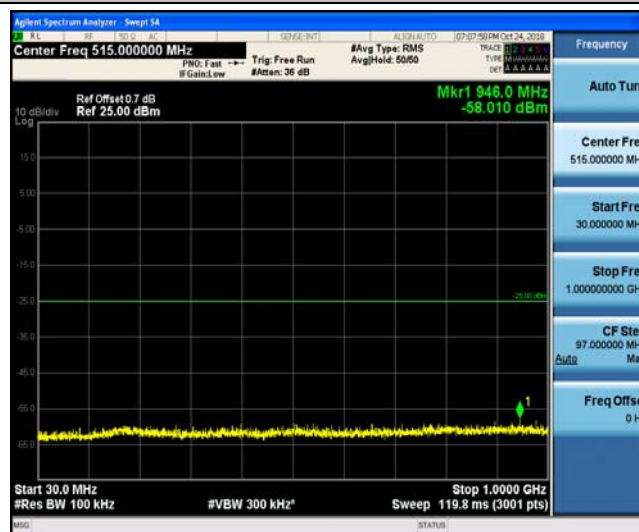
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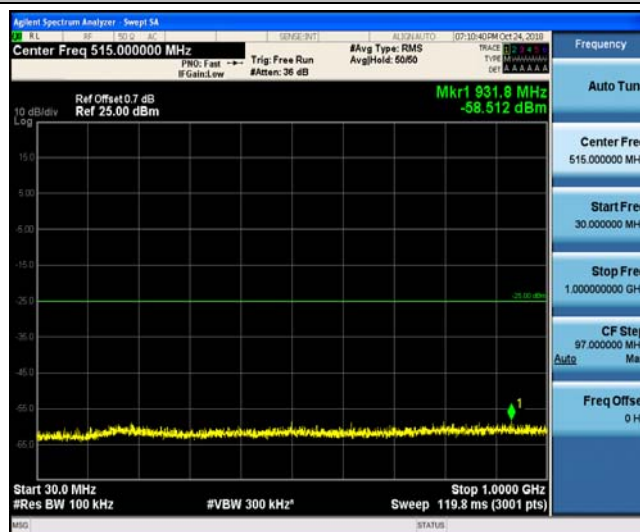
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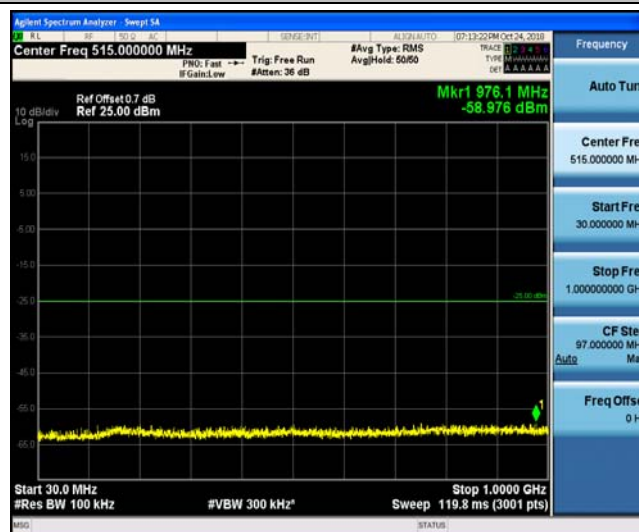
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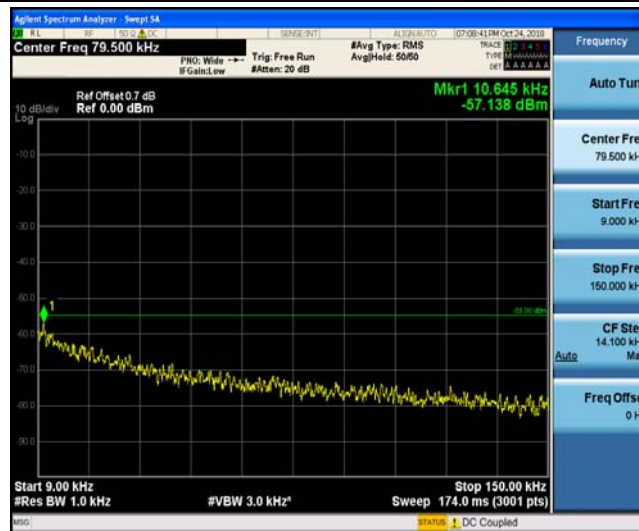
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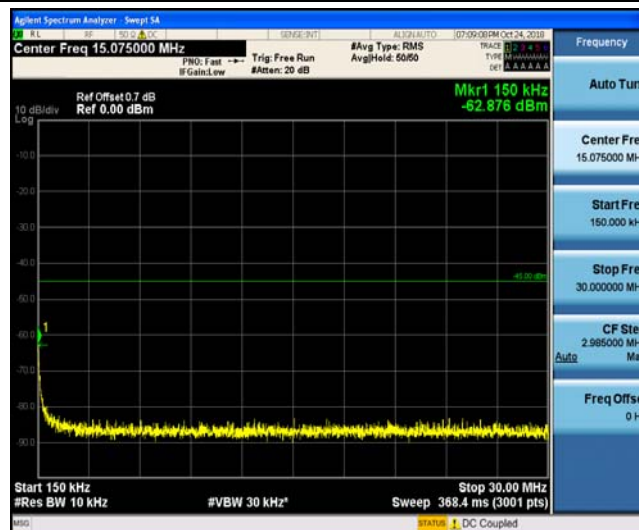
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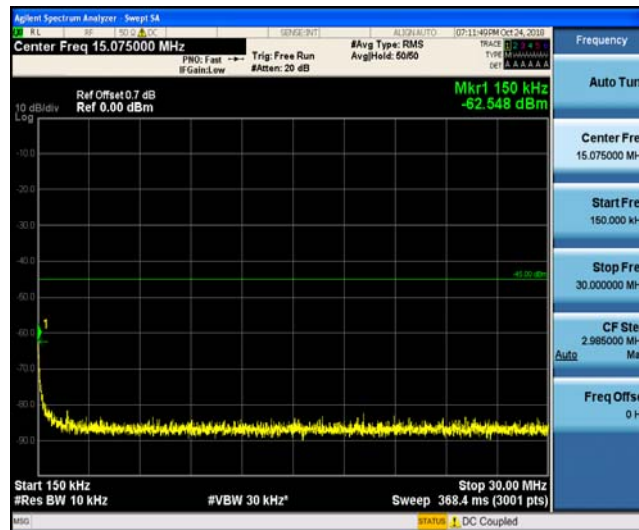
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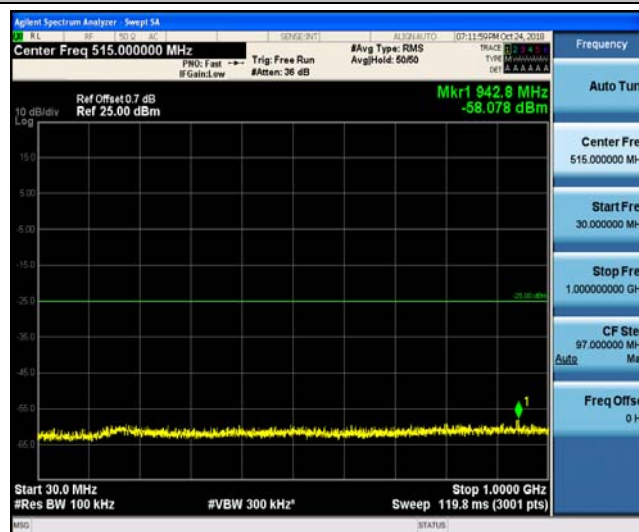
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Band7_10MHz_16QAM_21100_1RB#0



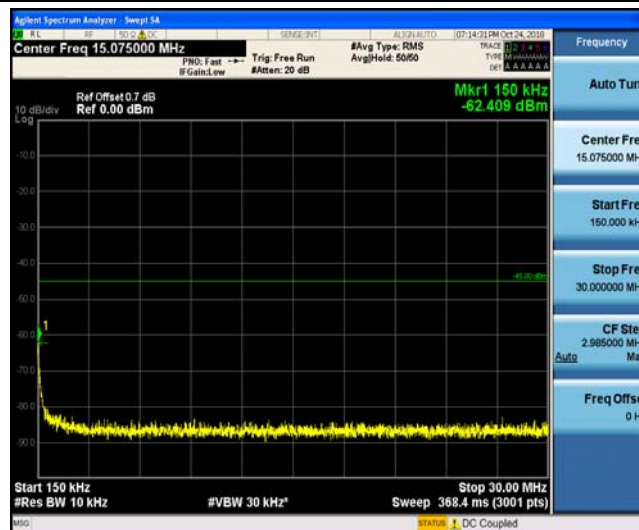
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Band7_10MHz_16QAM_21400_1RB#0



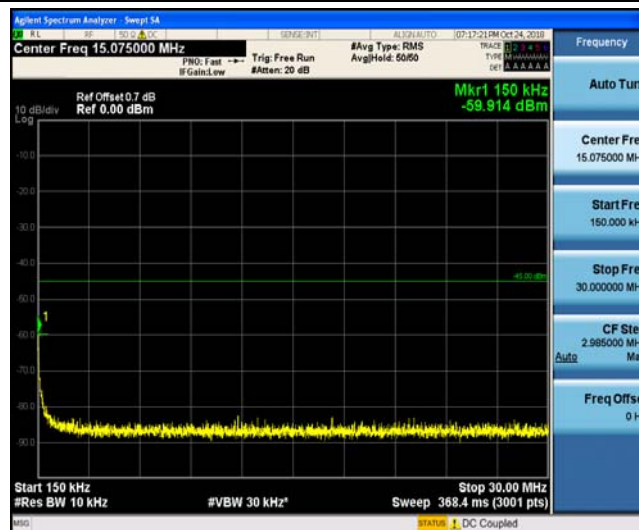
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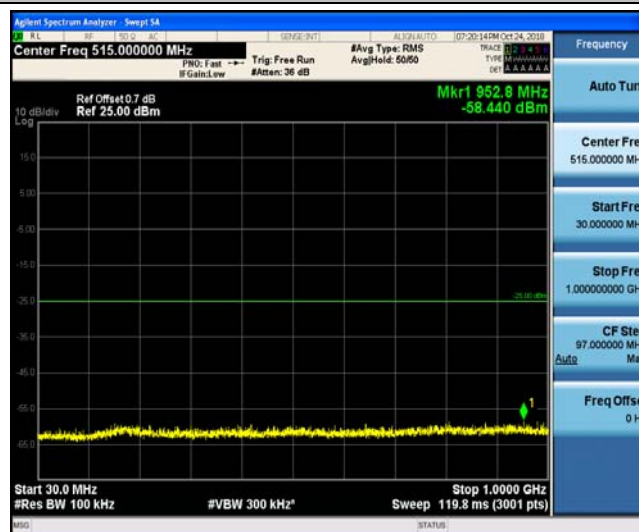
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Band7_15MHz_QPSK_21100_1RB#0



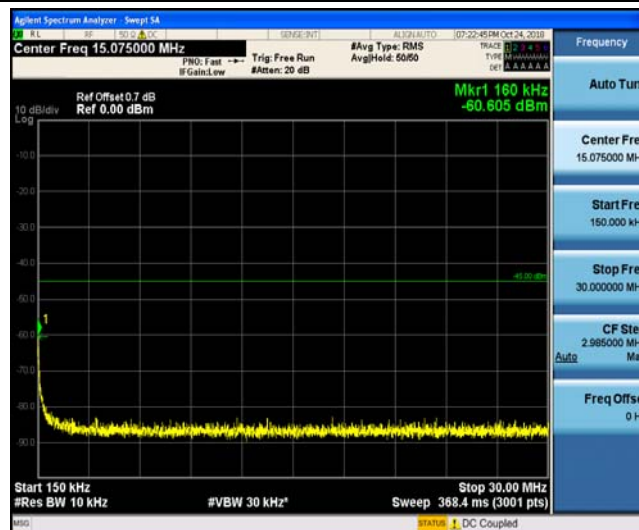
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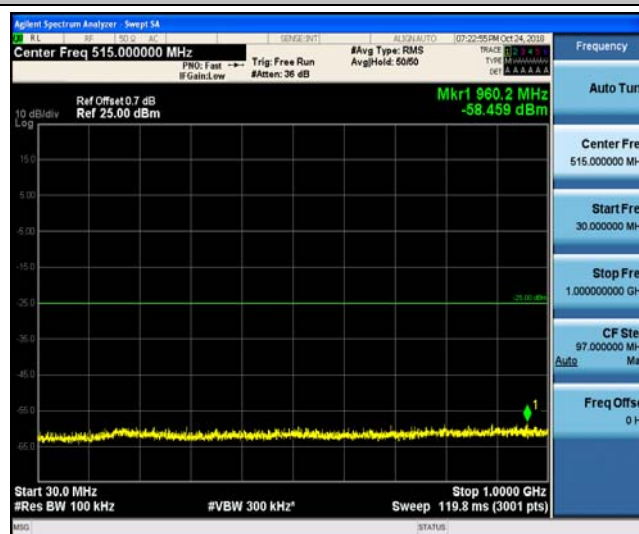
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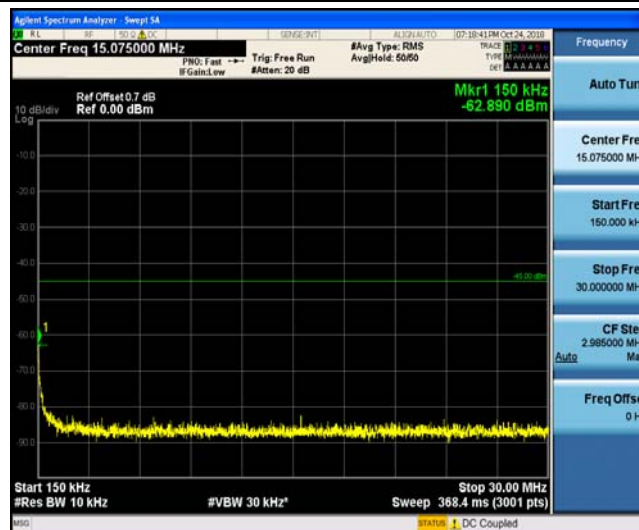
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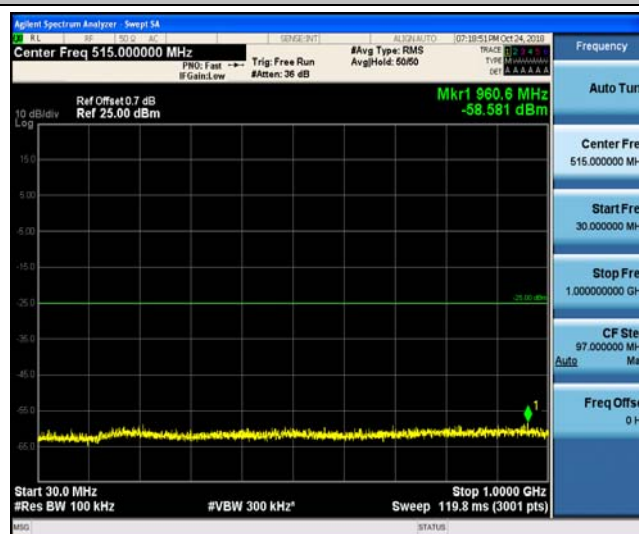
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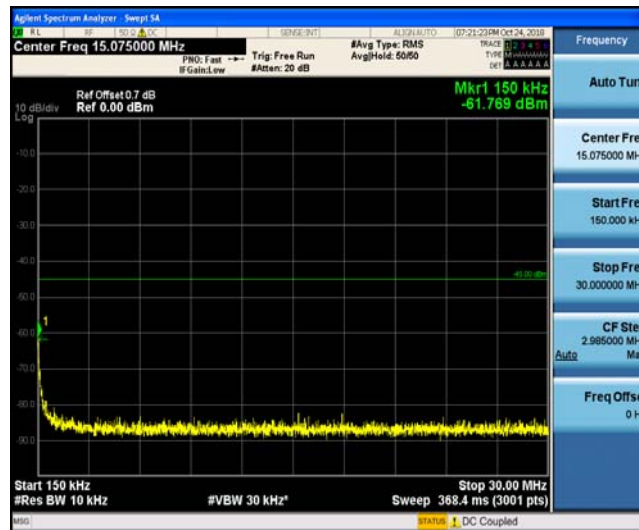
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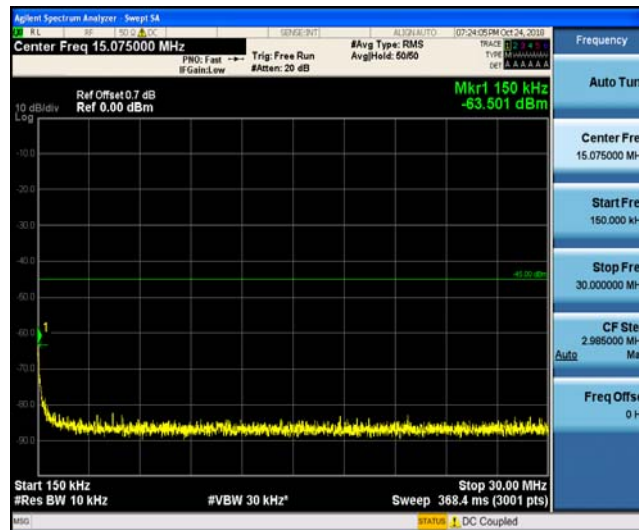
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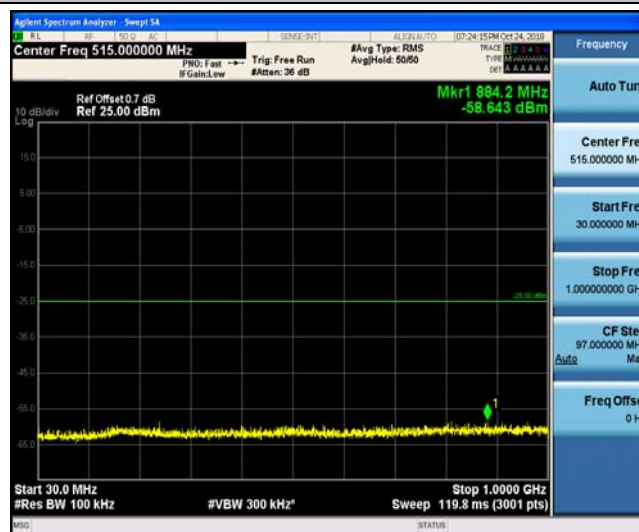
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Band7_15MHz_16QAM_21375_1RB#0



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Band7_15MHz_16QAM_21375_1RB#0



Band7_15MHz_16QAM_21375_1RB#0



Band7_20MHz_QPSK_20850_1RB#0



Band7_20MHz_QPSK_20850_1RB#0



Band7_20MHz_QPSK_20850_1RB#0



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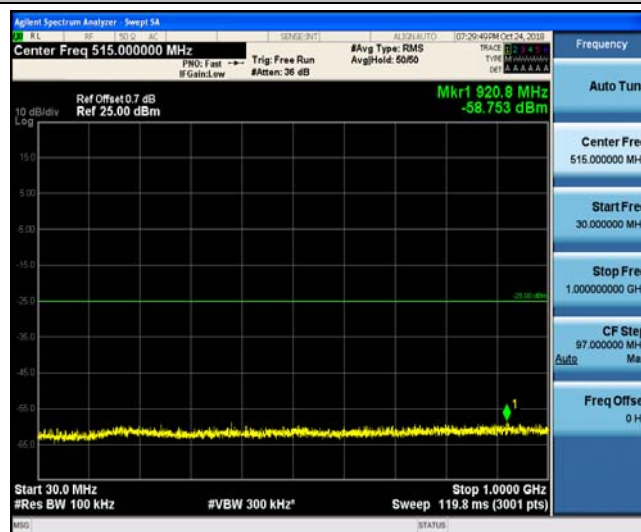
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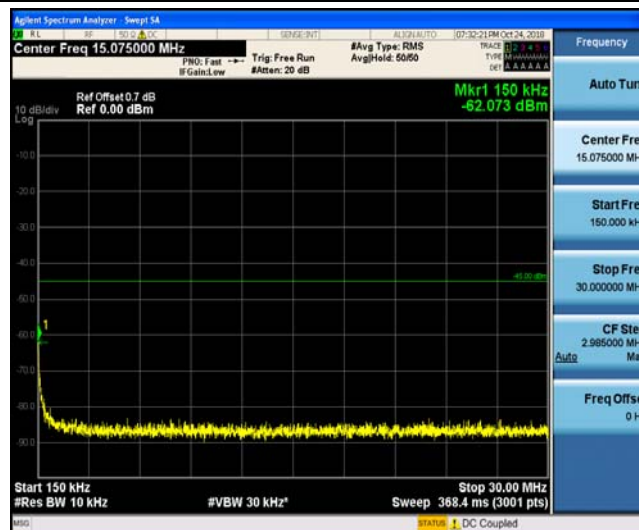
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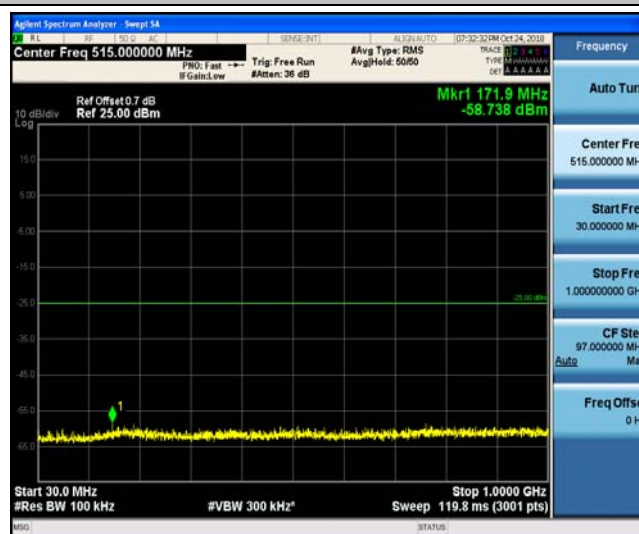
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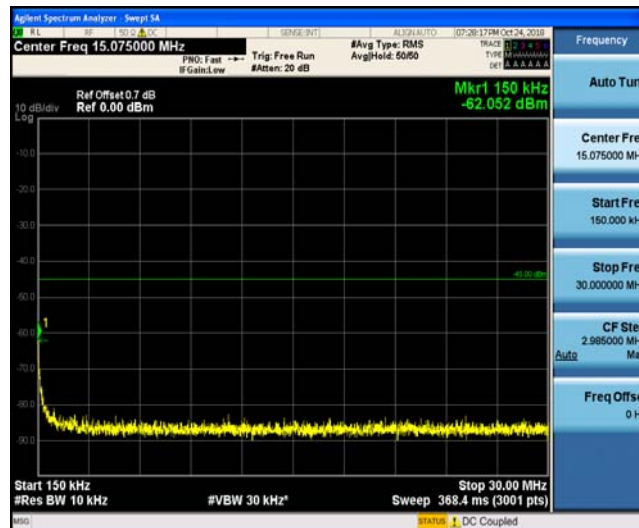
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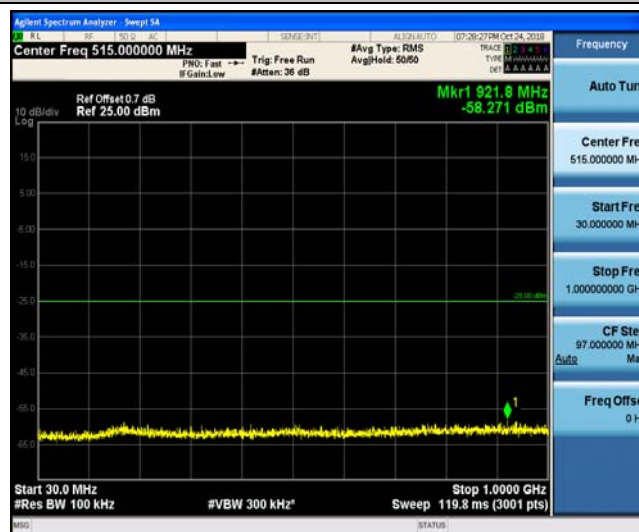
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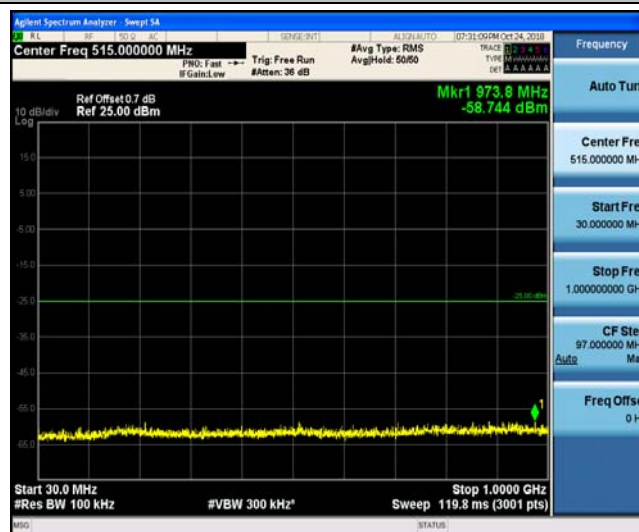
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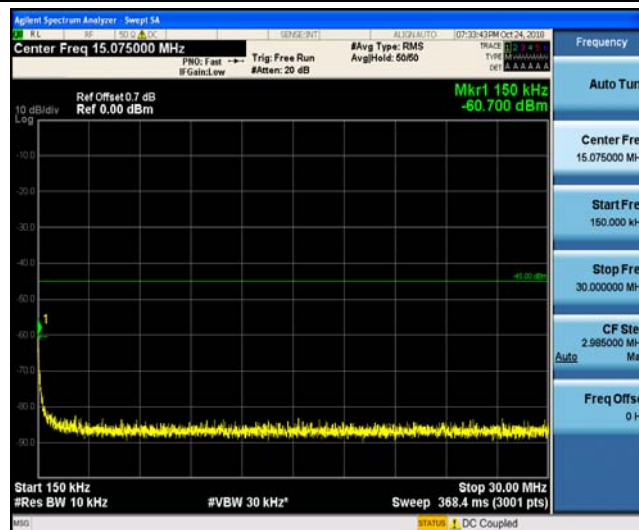
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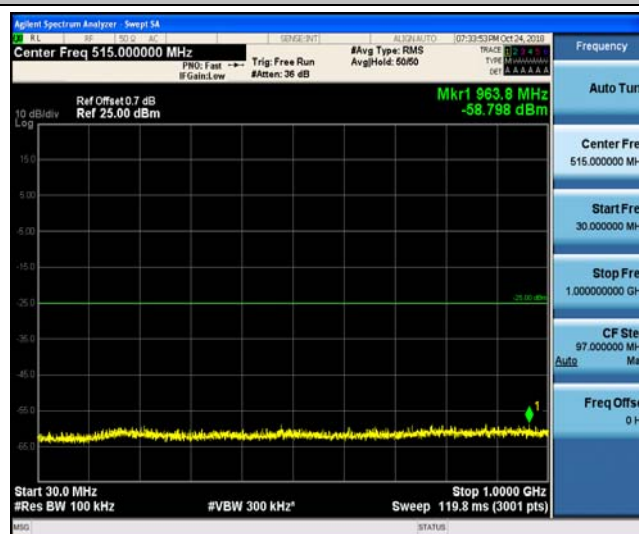
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Band7_20MHz_16QAM_21350_1RB#0



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	3.86	0.001542	± 2.5	PASS
		VN	TN	4.8	0.001918	± 2.5	PASS
		VH	TN	3.72	0.001487	± 2.5	PASS
	MCH	VL	TN	-1.16	-0.000458	± 2.5	PASS
		VN	TN	2.7	0.001065	± 2.5	PASS
		VH	TN	2.04	0.000805	± 2.5	PASS
	HCH	VL	TN	0.25	0.000097	± 2.5	PASS
		VN	TN	-1.23	-0.000479	± 2.5	PASS
		VH	TN	2.02	0.000787	± 2.5	PASS
16QAM	LCH	VL	TN	4.55	0.001818	± 2.5	PASS
		VN	TN	4.21	0.001682	± 2.5	PASS
		VH	TN	2.08	0.000831	± 2.5	PASS
	MCH	VL	TN	0.23	0.000091	± 2.5	PASS
		VN	TN	-1.57	-0.000619	± 2.5	PASS
		VH	TN	-0.29	-0.000114	± 2.5	PASS
	HCH	VL	TN	1.43	0.000557	± 2.5	PASS
		VN	TN	-1.26	-0.000491	± 2.5	PASS
		VH	TN	0.99	0.000386	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.67	0.001866	± 2.5	PASS
		VN	-20	1.12	0.000448	± 2.5	PASS
		VN	-10	-0.72	-0.000288	± 2.5	PASS
		VN	0	-0.68	-0.000272	± 2.5	PASS
		VN	10	0.83	0.000332	± 2.5	PASS
		VN	20	2.32	0.000927	± 2.5	PASS
		VN	30	0.17	0.000068	± 2.5	PASS
		VN	40	3.55	0.001419	± 2.5	PASS
		VN	50	4.5	0.001798	± 2.5	PASS
	MCH	VN	-30	-0.16	-0.000063	± 2.5	PASS

		VN	-20	-0.93	-0.000367	± 2.5	PASS
		VN	-10	2.21	0.000872	± 2.5	PASS
		VN	0	0.99	0.000391	± 2.5	PASS
		VN	10	-1.04	-0.000410	± 2.5	PASS
		VN	20	-1.91	-0.000753	± 2.5	PASS
		VN	30	1.41	0.000556	± 2.5	PASS
		VN	40	4.65	0.001834	± 2.5	PASS
		VN	50	4.11	0.001621	± 2.5	PASS
	HCH	VN	-30	2.6	0.001013	± 2.5	PASS
		VN	-20	-1.87	-0.000728	± 2.5	PASS
		VN	-10	-1.2	-0.000467	± 2.5	PASS
		VN	0	1.53	0.000596	± 2.5	PASS
		VN	10	3.52	0.001371	± 2.5	PASS
		VN	20	-1.56	-0.000608	± 2.5	PASS
		VN	30	-1.17	-0.000456	± 2.5	PASS
		VN	40	-1.69	-0.000658	± 2.5	PASS
16QAM	LCH	VN	-30	0.8	0.000320	± 2.5	PASS
		VN	-20	0.22	0.000088	± 2.5	PASS
		VN	-10	-0.98	-0.000392	± 2.5	PASS
		VN	0	-0.44	-0.000176	± 2.5	PASS
		VN	10	-1	-0.000400	± 2.5	PASS
		VN	20	-1.94	-0.000775	± 2.5	PASS
		VN	30	-0.66	-0.000264	± 2.5	PASS
		VN	40	-1.05	-0.000420	± 2.5	PASS
		VN	50	4.77	0.001906	± 2.5	PASS
	MCH	VN	-30	3.81	0.001503	± 2.5	PASS
		VN	-20	0.35	0.000138	± 2.5	PASS
		VN	-10	0.13	0.000051	± 2.5	PASS
		VN	0	1.76	0.000694	± 2.5	PASS
		VN	10	2.81	0.001108	± 2.5	PASS
		VN	20	4.74	0.001870	± 2.5	PASS
		VN	30	4.71	0.001858	± 2.5	PASS
		VN	40	-1.85	-0.000730	± 2.5	PASS
		VN	50	-1.56	-0.000615	± 2.5	PASS
	HCH	VN	-30	-1.72	-0.000670	± 2.5	PASS
		VN	-20	3.4	0.001324	± 2.5	PASS
		VN	-10	3.87	0.001507	± 2.5	PASS
		VN	0	2.64	0.001028	± 2.5	PASS
		VN	10	-1.26	-0.000491	± 2.5	PASS
		VN	20	4.93	0.001920	± 2.5	PASS

		VN	30	3.76	0.001464	± 2.5	PASS
		VN	40	2.19	0.000853	± 2.5	PASS
		VN	50	-0.38	-0.000148	± 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	3.52	0.001405	± 2.5	PASS
		VN	TN	-0.95	-0.000379	± 2.5	PASS
		VH	TN	4.32	0.001725	± 2.5	PASS
	MCH	VL	TN	0.69	0.000272	± 2.5	PASS
		VN	TN	3.4	0.001341	± 2.5	PASS
		VH	TN	0.23	0.000091	± 2.5	PASS
	HCH	VL	TN	0.23	0.000090	± 2.5	PASS
		VN	TN	4.13	0.001610	± 2.5	PASS
		VH	TN	0.31	0.000121	± 2.5	PASS
16QAM	LCH	VL	TN	0.77	0.000307	± 2.5	PASS
		VN	TN	1.65	0.000659	± 2.5	PASS
		VH	TN	-1.94	-0.000774	± 2.5	PASS
	MCH	VL	TN	-1.16	-0.000458	± 2.5	PASS
		VN	TN	2.85	0.001124	± 2.5	PASS
		VH	TN	2.99	0.001179	± 2.5	PASS
	HCH	VL	TN	0.72	0.000281	± 2.5	PASS
		VN	TN	1.72	0.000671	± 2.5	PASS
		VH	TN	1.78	0.000694	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	-0.2	-0.000080	± 2.5	PASS
		VN	-20	-1.04	-0.000415	± 2.5	PASS
		VN	-10	0.68	0.000271	± 2.5	PASS
		VN	0	1.25	0.000499	± 2.5	PASS
		VN	10	0.02	0.000008	± 2.5	PASS
		VN	20	4.14	0.001653	± 2.5	PASS
		VN	30	1.6	0.000639	± 2.5	PASS
		VN	40	4.85	0.001936	± 2.5	PASS
		VN	50	-1.39	-0.000555	± 2.5	PASS
	MCH	VN	-30	4.05	0.001598	± 2.5	PASS
		VN	-20	3.9	0.001538	± 2.5	PASS

		VN	-10	-1.86	-0.000734	± 2.5	PASS
		VN	0	4.27	0.001684	± 2.5	PASS
		VN	10	1.9	0.000750	± 2.5	PASS
		VN	20	3.86	0.001523	± 2.5	PASS
		VN	30	2.11	0.000832	± 2.5	PASS
		VN	40	1.03	0.000406	± 2.5	PASS
		VN	50	2.89	0.001140	± 2.5	PASS
	HCH	VN	-30	4.58	0.001786	± 2.5	PASS
		VN	-20	3.3	0.001287	± 2.5	PASS
		VN	-10	1.03	0.000402	± 2.5	PASS
		VN	0	-0.51	-0.000199	± 2.5	PASS
		VN	10	-1.52	-0.000593	± 2.5	PASS
		VN	20	-0.85	-0.000331	± 2.5	PASS
		VN	30	2.76	0.001076	± 2.5	PASS
		VN	40	1.03	0.000402	± 2.5	PASS
		VN	50	-1.27	-0.000495	± 2.5	PASS
QPSK	LCH	VN	-30	4.43	0.001768	± 2.5	PASS
		VN	-20	3.39	0.001353	± 2.5	PASS
		VN	-10	4.56	0.001820	± 2.5	PASS
		VN	0	0.84	0.000335	± 2.5	PASS
		VN	10	4.5	0.001796	± 2.5	PASS
		VN	20	-0.84	-0.000335	± 2.5	PASS
		VN	30	1.31	0.000523	± 2.5	PASS
		VN	40	0.01	0.000004	± 2.5	PASS
		VN	50	2.5	0.000998	± 2.5	PASS
	MCH	VN	-30	4.03	0.001590	± 2.5	PASS
		VN	-20	-1.29	-0.000509	± 2.5	PASS
		VN	-10	3.93	0.001550	± 2.5	PASS
		VN	0	-1.61	-0.000635	± 2.5	PASS
		VN	10	0.38	0.000150	± 2.5	PASS
		VN	20	4.71	0.001858	± 2.5	PASS
		VN	30	1.85	0.000730	± 2.5	PASS
		VN	40	2.77	0.001093	± 2.5	PASS
		VN	50	4.97	0.001961	± 2.5	PASS
	HCH	VN	-30	-0.82	-0.000320	± 2.5	PASS
		VN	-20	0.75	0.000292	± 2.5	PASS
		VN	-10	4.13	0.001610	± 2.5	PASS
		VN	0	0.83	0.000324	± 2.5	PASS
		VN	10	-1.58	-0.000616	± 2.5	PASS
		VN	20	2.39	0.000932	± 2.5	PASS
		VN	30	4.86	0.001895	± 2.5	PASS

		VN	40	2.9	0.001131	± 2.5	PASS
		VN	50	-0.34	-0.000133	± 2.5	PASS

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	1.75	0.000698	± 2.5	PASS
		VN	TN	2.43	0.000969	± 2.5	PASS
		VH	TN	2.74	0.001093	± 2.5	PASS
	MCH	VL	TN	3.16	0.001247	± 2.5	PASS
		VN	TN	2.53	0.000998	± 2.5	PASS
		VH	TN	3.79	0.001495	± 2.5	PASS
	HCH	VL	TN	2.3	0.000898	± 2.5	PASS
		VN	TN	0.31	0.000121	± 2.5	PASS
		VH	TN	-1.72	-0.000671	± 2.5	PASS
16QAM	LCH	VL	TN	0.2	0.000080	± 2.5	PASS
		VN	TN	-0.65	-0.000259	± 2.5	PASS
		VH	TN	0.85	0.000339	± 2.5	PASS
	MCH	VL	TN	-1.88	-0.000742	± 2.5	PASS
		VN	TN	4.96	0.001957	± 2.5	PASS
		VH	TN	0.28	0.000110	± 2.5	PASS
	HCH	VL	TN	0.58	0.000226	± 2.5	PASS
		VN	TN	4.11	0.001604	± 2.5	PASS
		VH	TN	2.91	0.001136	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.84	0.001930	± 2.5	PASS
		VN	-20	-0.71	-0.000283	± 2.5	PASS
		VN	-10	-1.39	-0.000554	± 2.5	PASS
		VN	0	-1.93	-0.000770	± 2.5	PASS
		VN	10	1.33	0.000530	± 2.5	PASS
		VN	20	-1.5	-0.000598	± 2.5	PASS
		VN	30	-1.17	-0.000467	± 2.5	PASS
		VN	40	0.68	0.000271	± 2.5	PASS
		VN	50	1.36	0.000542	± 2.5	PASS
	MCH	VN	-30	3.32	0.001310	± 2.5	PASS
		VN	-20	1.05	0.000414	± 2.5	PASS
		VN	-10	3.71	0.001464	± 2.5	PASS

		VN	0	-0.57	-0.000225	± 2.5	PASS
		VN	10	1.83	0.000722	± 2.5	PASS
		VN	20	0.5	0.000197	± 2.5	PASS
		VN	30	4.57	0.001803	± 2.5	PASS
		VN	40	2.87	0.001132	± 2.5	PASS
		VN	50	2.62	0.001034	± 2.5	PASS
	HCH	VN	-30	2.43	0.000948	± 2.5	PASS
		VN	-20	-0.23	-0.000090	± 2.5	PASS
		VN	-10	1.74	0.000679	± 2.5	PASS
		VN	0	3.16	0.001233	± 2.5	PASS
		VN	10	-0.88	-0.000343	± 2.5	PASS
		VN	20	4.46	0.001740	± 2.5	PASS
		VN	30	0.78	0.000304	± 2.5	PASS
		VN	40	-1.9	-0.000741	± 2.5	PASS
		VN	50	4.93	0.001924	± 2.5	PASS
QPSK	LCH	VN	-30	2.33	0.000929	± 2.5	PASS
		VN	-20	0.66	0.000263	± 2.5	PASS
		VN	-10	1.7	0.000678	± 2.5	PASS
		VN	0	1.34	0.000534	± 2.5	PASS
		VN	10	-1.17	-0.000467	± 2.5	PASS
		VN	20	1.96	0.000782	± 2.5	PASS
		VN	30	1.67	0.000666	± 2.5	PASS
		VN	40	4.17	0.001663	± 2.5	PASS
		VN	50	-1.91	-0.000762	± 2.5	PASS
	MCH	VN	-30	-1.27	-0.000501	± 2.5	PASS
		VN	-20	4.91	0.001937	± 2.5	PASS
		VN	-10	2.62	0.001034	± 2.5	PASS
		VN	0	4.54	0.001791	± 2.5	PASS
		VN	10	-1.41	-0.000556	± 2.5	PASS
		VN	20	-0.23	-0.000091	± 2.5	PASS
		VN	30	3.25	0.001282	± 2.5	PASS
		VN	40	1.9	0.000750	± 2.5	PASS
		VN	50	1.57	0.000619	± 2.5	PASS
	HCH	VN	-30	1.19	0.000464	± 2.5	PASS
		VN	-20	-1.95	-0.000761	± 2.5	PASS
		VN	-10	3.42	0.001335	± 2.5	PASS
		VN	0	2.72	0.001061	± 2.5	PASS
		VN	10	3.11	0.001214	± 2.5	PASS
		VN	20	0.02	0.000008	± 2.5	PASS
		VN	30	0.54	0.000211	± 2.5	PASS
		VN	40	2.84	0.001108	± 2.5	PASS

		VN	50	1.04	0.000406	± 2.5	PASS
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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	-0.14	-0.000056	± 2.5	PASS
		VN	TN	-1.87	-0.000745	± 2.5	PASS
		VH	TN	-1.77	-0.000705	± 2.5	PASS
	MCH	VL	TN	4.94	0.001949	± 2.5	PASS
		VN	TN	2.61	0.001030	± 2.5	PASS
		VH	TN	0.76	0.000300	± 2.5	PASS
	HCH	VL	TN	3.15	0.001230	± 2.5	PASS
		VN	TN	3.29	0.001285	± 2.5	PASS
		VH	TN	1.35	0.000527	± 2.5	PASS
16QAM	LCH	VL	TN	-1.68	-0.000669	± 2.5	PASS
		VN	TN	2.7	0.001076	± 2.5	PASS
		VH	TN	0.57	0.000227	± 2.5	PASS
	MCH	VL	TN	3.84	0.001515	± 2.5	PASS
		VN	TN	-0.14	-0.000055	± 2.5	PASS
		VH	TN	4.53	0.001787	± 2.5	PASS
	HCH	VL	TN	3.36	0.001313	± 2.5	PASS
		VN	TN	1.3	0.000508	± 2.5	PASS
		VH	TN	1.09	0.000426	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.69	0.001470	± 2.5	PASS
		VN	-20	-0.37	-0.000147	± 2.5	PASS
		VN	-10	3.71	0.001478	± 2.5	PASS
		VN	0	-1.59	-0.000633	± 2.5	PASS
		VN	10	2.72	0.001084	± 2.5	PASS
		VN	20	3.79	0.001510	± 2.5	PASS
		VN	30	0.88	0.000351	± 2.5	PASS
		VN	40	3.15	0.001255	± 2.5	PASS
		VN	50	-1.8	-0.000717	± 2.5	PASS
	MCH	VN	-30	3.19	0.001258	± 2.5	PASS
		VN	-20	0.06	0.000024	± 2.5	PASS
		VN	-10	-1.56	-0.000615	± 2.5	PASS
		VN	0	4.14	0.001633	± 2.5	PASS

		VN	10	-1.63	-0.000643	± 2.5	PASS
		VN	20	-0.73	-0.000288	± 2.5	PASS
		VN	30	-0.79	-0.000312	± 2.5	PASS
		VN	40	0.47	0.000185	± 2.5	PASS
		VN	50	-0.13	-0.000051	± 2.5	PASS
	HCH	VN	-30	-1.62	-0.000633	± 2.5	PASS
		VN	-20	0.63	0.000246	± 2.5	PASS
		VN	-10	4.91	0.001918	± 2.5	PASS
		VN	0	4.95	0.001934	± 2.5	PASS
		VN	10	2.81	0.001098	± 2.5	PASS
		VN	20	0.95	0.000371	± 2.5	PASS
		VN	30	2.75	0.001074	± 2.5	PASS
		VN	40	-0.35	-0.000137	± 2.5	PASS
		VN	50	0.83	0.000324	± 2.5	PASS
QPSK	LCH	VN	-30	2.02	0.000805	± 2.5	PASS
		VN	-20	2.95	0.001175	± 2.5	PASS
		VN	-10	1.95	0.000777	± 2.5	PASS
		VN	0	2.35	0.000936	± 2.5	PASS
		VN	10	3.61	0.001438	± 2.5	PASS
		VN	20	1.26	0.000502	± 2.5	PASS
		VN	30	0.79	0.000315	± 2.5	PASS
		VN	40	1.3	0.000518	± 2.5	PASS
		VN	50	-1.16	-0.000462	± 2.5	PASS
	MCH	VN	-30	1.25	0.000493	± 2.5	PASS
		VN	-20	0.2	0.000079	± 2.5	PASS
		VN	-10	2.62	0.001034	± 2.5	PASS
		VN	0	0.66	0.000260	± 2.5	PASS
		VN	10	2.77	0.001093	± 2.5	PASS
		VN	20	2.67	0.001053	± 2.5	PASS
		VN	30	0.47	0.000185	± 2.5	PASS
		VN	40	0.86	0.000339	± 2.5	PASS
		VN	50	2.87	0.001132	± 2.5	PASS
	HCH	VN	-30	-1.15	-0.000449	± 2.5	PASS
		VN	-20	-0.29	-0.000113	± 2.5	PASS
		VN	-10	0.82	0.000320	± 2.5	PASS
		VN	0	3.97	0.001551	± 2.5	PASS
		VN	10	2.47	0.000965	± 2.5	PASS
		VN	20	-1.86	-0.000727	± 2.5	PASS
		VN	30	1.87	0.000730	± 2.5	PASS
		VN	40	-1.06	-0.000414	± 2.5	PASS
		VN	50	2.7	0.001055	± 2.5	PASS