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### Test Result

#### Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.32	0.003316	± 2.5	PASS
		VN	TN	3.19	0.004559	± 2.5	PASS
		VH	TN	-1.29	-0.001844	± 2.5	PASS
	MCH	VL	TN	-0.44	-0.000622	± 2.5	PASS
		VN	TN	4.42	0.006247	± 2.5	PASS
		VH	TN	3.2	0.004523	± 2.5	PASS
	HCH	VL	TN	-0.09	-0.000126	± 2.5	PASS
		VN	TN	3.89	0.005438	± 2.5	PASS
		VH	TN	1.4	0.001957	± 2.5	PASS
16QAM	LCH	VL	TN	4	0.005717	± 2.5	PASS
		VN	TN	1.41	0.002015	± 2.5	PASS
		VH	TN	0.3	0.000429	± 2.5	PASS
	MCH	VL	TN	1.64	0.002318	± 2.5	PASS
		VN	TN	1.35	0.001908	± 2.5	PASS
		VH	TN	0.71	0.001004	± 2.5	PASS
	HCH	VL	TN	4.88	0.006822	± 2.5	PASS
		VN	TN	3.72	0.005201	± 2.5	PASS
		VH	TN	-0.2	-0.000280	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.85	0.006932	± 2.5	PASS
		VN	-20	2.17	0.003101	± 2.5	PASS
		VN	-10	2.55	0.003644	± 2.5	PASS
		VN	0	-0.51	-0.000729	± 2.5	PASS
		VN	10	2.97	0.004245	± 2.5	PASS
		VN	20	3.16	0.004516	± 2.5	PASS
		VN	30	4.8	0.006860	± 2.5	PASS
		VN	40	0.8	0.001143	± 2.5	PASS
		VN	50	2.02	0.002887	± 2.5	PASS
	MCH	VN	-30	2.94	0.004155	± 2.5	PASS
		VN	-20	0.65	0.000919	± 2.5	PASS

	HCH	VN	-10	0.75	0.001060	$\pm 2.5$	PASS
		VN	0	-1.05	-0.001484	$\pm 2.5$	PASS
		VN	10	1.81	0.002558	$\pm 2.5$	PASS
		VN	20	3.04	0.004297	$\pm 2.5$	PASS
		VN	30	-0.43	-0.000608	$\pm 2.5$	PASS
		VN	40	2.72	0.003845	$\pm 2.5$	PASS
		VN	50	-0.63	-0.000890	$\pm 2.5$	PASS
		VN	-30	-0.82	-0.001146	$\pm 2.5$	PASS
		VN	-20	-1.2	-0.001678	$\pm 2.5$	PASS
		VN	-10	0.32	0.000447	$\pm 2.5$	PASS
16QAM	LCH	VN	0	0.76	0.001062	$\pm 2.5$	PASS
		VN	10	1.95	0.002726	$\pm 2.5$	PASS
		VN	20	-1.05	-0.001468	$\pm 2.5$	PASS
		VN	30	3.2	0.004474	$\pm 2.5$	PASS
		VN	40	-0.56	-0.000783	$\pm 2.5$	PASS
		VN	50	4.38	0.006123	$\pm 2.5$	PASS
		VN	-30	3.72	0.005317	$\pm 2.5$	PASS
		VN	-20	1.29	0.001844	$\pm 2.5$	PASS
		VN	-10	4.65	0.006646	$\pm 2.5$	PASS
	MCH	VN	0	1.73	0.002472	$\pm 2.5$	PASS
		VN	10	-1.84	-0.002630	$\pm 2.5$	PASS
		VN	20	4.69	0.006703	$\pm 2.5$	PASS
		VN	30	0.08	0.000114	$\pm 2.5$	PASS
		VN	40	2.35	0.003359	$\pm 2.5$	PASS
		VN	50	2.61	0.003730	$\pm 2.5$	PASS
		VN	-30	1.83	0.002587	$\pm 2.5$	PASS
		VN	-20	2.77	0.003915	$\pm 2.5$	PASS
		VN	-10	1.31	0.001852	$\pm 2.5$	PASS
		VN	0	-0.88	-0.001244	$\pm 2.5$	PASS
	HCH	VN	10	-1.83	-0.002587	$\pm 2.5$	PASS
		VN	20	-0.01	-0.000014	$\pm 2.5$	PASS
		VN	30	2.63	0.003717	$\pm 2.5$	PASS
		VN	40	0.57	0.000806	$\pm 2.5$	PASS
		VN	50	-0.26	-0.000367	$\pm 2.5$	PASS
		VN	-30	4.01	0.005606	$\pm 2.5$	PASS
		VN	-20	3.17	0.004432	$\pm 2.5$	PASS

		VN	40	3.35	0.004683	$\pm 2.5$	PASS
		VN	50	-0.9	-0.001258	$\pm 2.5$	PASS

### Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.85	-0.001212	$\pm 2.5$	PASS
		VN	TN	0.29	0.000413	$\pm 2.5$	PASS
		VH	TN	1.02	0.001454	$\pm 2.5$	PASS
	MCH	VL	TN	0.11	0.000155	$\pm 2.5$	PASS
		VN	TN	-0.23	-0.000325	$\pm 2.5$	PASS
		VH	TN	4.3	0.006078	$\pm 2.5$	PASS
	HCH	VL	TN	2.65	0.003714	$\pm 2.5$	PASS
		VN	TN	-1.07	-0.001500	$\pm 2.5$	PASS
		VH	TN	4.41	0.006181	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	1.06	0.001511	$\pm 2.5$	PASS
		VN	TN	2.4	0.003421	$\pm 2.5$	PASS
		VH	TN	-0.24	-0.000342	$\pm 2.5$	PASS
	MCH	VL	TN	4.56	0.006445	$\pm 2.5$	PASS
		VN	TN	4.9	0.006926	$\pm 2.5$	PASS
		VH	TN	1.92	0.002714	$\pm 2.5$	PASS
	HCH	VL	TN	1.52	0.002130	$\pm 2.5$	PASS
		VN	TN	4.23	0.005929	$\pm 2.5$	PASS
		VH	TN	4.01	0.005620	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.1	0.000143	$\pm 2.5$	PASS
		VN	-20	-0.84	-0.001199	$\pm 2.5$	PASS
		VN	-10	-1.27	-0.001813	$\pm 2.5$	PASS
		VN	0	2.46	0.003512	$\pm 2.5$	PASS
		VN	10	4.01	0.005724	$\pm 2.5$	PASS
		VN	20	-0.39	-0.000557	$\pm 2.5$	PASS
		VN	30	0.15	0.000214	$\pm 2.5$	PASS
		VN	40	2.76	0.003940	$\pm 2.5$	PASS
		VN	50	-1.5	-0.002141	$\pm 2.5$	PASS
	MCH	VN	-30	-0.82	-0.001159	$\pm 2.5$	PASS
		VN	-20	2.5	0.003534	$\pm 2.5$	PASS
		VN	-10	4.91	0.006940	$\pm 2.5$	PASS

		VN	0	2.03	0.002869	$\pm 2.5$	PASS
		VN	10	3.91	0.005527	$\pm 2.5$	PASS
		VN	20	-1.48	-0.002092	$\pm 2.5$	PASS
		VN	30	4.1	0.005795	$\pm 2.5$	PASS
		VN	40	3.99	0.005640	$\pm 2.5$	PASS
		VN	50	0.92	0.001300	$\pm 2.5$	PASS
		VN	-30	0.28	0.000392	$\pm 2.5$	PASS
		VN	-20	2.13	0.002981	$\pm 2.5$	PASS
		VN	-10	1.04	0.001456	$\pm 2.5$	PASS
		VN	0	2.3	0.003219	$\pm 2.5$	PASS
		VN	10	-0.72	-0.001008	$\pm 2.5$	PASS
		VN	20	3.76	0.005262	$\pm 2.5$	PASS
		VN	30	2.66	0.003723	$\pm 2.5$	PASS
		VN	40	-1.22	-0.001707	$\pm 2.5$	PASS
		VN	50	3.75	0.005248	$\pm 2.5$	PASS
	HCH	VN	-30	4.62	0.006595	$\pm 2.5$	PASS
		VN	-20	-1.47	-0.002099	$\pm 2.5$	PASS
		VN	-10	3.3	0.004711	$\pm 2.5$	PASS
		VN	0	4.12	0.005882	$\pm 2.5$	PASS
		VN	10	2.04	0.002912	$\pm 2.5$	PASS
		VN	20	3.38	0.004825	$\pm 2.5$	PASS
		VN	30	-1.65	-0.002355	$\pm 2.5$	PASS
		VN	40	1.86	0.002655	$\pm 2.5$	PASS
		VN	50	0.91	0.001299	$\pm 2.5$	PASS
	LCH	VN	-30	4.83	0.006827	$\pm 2.5$	PASS
		VN	-20	4.67	0.006601	$\pm 2.5$	PASS
		VN	-10	0.83	0.001173	$\pm 2.5$	PASS
		VN	0	-1.2	-0.001696	$\pm 2.5$	PASS
		VN	10	3.54	0.005004	$\pm 2.5$	PASS
		VN	20	4.17	0.005894	$\pm 2.5$	PASS
		VN	30	3.59	0.005074	$\pm 2.5$	PASS
		VN	40	1.65	0.002332	$\pm 2.5$	PASS
		VN	50	-1.34	-0.001894	$\pm 2.5$	PASS
	MCH	VN	-30	3.26	0.004563	$\pm 2.5$	PASS
		VN	-20	2.68	0.003751	$\pm 2.5$	PASS
		VN	-10	-0.04	-0.000056	$\pm 2.5$	PASS
		VN	0	4.15	0.005808	$\pm 2.5$	PASS
		VN	10	4.09	0.005724	$\pm 2.5$	PASS
		VN	20	-0.29	-0.000406	$\pm 2.5$	PASS
		VN	30	-0.16	-0.000224	$\pm 2.5$	PASS
		VN	40	1.57	0.002197	$\pm 2.5$	PASS

		VN	50	1.84	0.002575	$\pm 2.5$	PASS
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## 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	2.84	0.004048	$\pm 2.5$	PASS
		VN	TN	-0.77	-0.001098	$\pm 2.5$	PASS
		VH	TN	1.62	0.002309	$\pm 2.5$	PASS
	MCH	VL	TN	-0.67	-0.000947	$\pm 2.5$	PASS
		VN	TN	0.93	0.001314	$\pm 2.5$	PASS
		VH	TN	3.32	0.004693	$\pm 2.5$	PASS
	HCH	VL	TN	0.38	0.000533	$\pm 2.5$	PASS
		VN	TN	3.26	0.004569	$\pm 2.5$	PASS
		VH	TN	0.77	0.001079	$\pm 2.5$	PASS
16QAM	LCH	VL	TN	-1.73	-0.002466	$\pm 2.5$	PASS
		VN	TN	-0.12	-0.000171	$\pm 2.5$	PASS
		VH	TN	1.75	0.002495	$\pm 2.5$	PASS
	MCH	VL	TN	-0.88	-0.001244	$\pm 2.5$	PASS
		VN	TN	-0.86	-0.001216	$\pm 2.5$	PASS
		VH	TN	0.33	0.000466	$\pm 2.5$	PASS
	HCH	VL	TN	-1.55	-0.002172	$\pm 2.5$	PASS
		VN	TN	0.81	0.001135	$\pm 2.5$	PASS
		VH	TN	-0.35	-0.000491	$\pm 2.5$	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.95	0.002780	$\pm 2.5$	PASS
		VN	-20	4.16	0.005930	$\pm 2.5$	PASS
		VN	-10	2.31	0.003293	$\pm 2.5$	PASS
		VN	0	0.94	0.001340	$\pm 2.5$	PASS
		VN	10	4.61	0.006572	$\pm 2.5$	PASS
		VN	20	1.2	0.001711	$\pm 2.5$	PASS
		VN	30	-0.57	-0.000813	$\pm 2.5$	PASS
		VN	40	-0.4	-0.000570	$\pm 2.5$	PASS
		VN	50	-0.8	-0.001140	$\pm 2.5$	PASS
	MCH	VN	-30	3.63	0.005131	$\pm 2.5$	PASS
		VN	-20	3.25	0.004594	$\pm 2.5$	PASS
		VN	-10	3.11	0.004396	$\pm 2.5$	PASS
		VN	0	-0.88	-0.001244	$\pm 2.5$	PASS

		VN	10	-0.27	-0.000382	$\pm 2.5$	PASS
		VN	20	4.22	0.005965	$\pm 2.5$	PASS
		VN	30	0.67	0.000947	$\pm 2.5$	PASS
		VN	40	-0.84	-0.001187	$\pm 2.5$	PASS
		VN	50	4.7	0.006643	$\pm 2.5$	PASS
		VN	-30	0.98	0.001374	$\pm 2.5$	PASS
		VN	-20	0.19	0.000266	$\pm 2.5$	PASS
		VN	-10	0.79	0.001107	$\pm 2.5$	PASS
		VN	0	-0.96	-0.001345	$\pm 2.5$	PASS
		VN	10	1.48	0.002074	$\pm 2.5$	PASS
	HCH	VN	20	4.29	0.006013	$\pm 2.5$	PASS
		VN	30	0.65	0.000911	$\pm 2.5$	PASS
		VN	40	1.5	0.002102	$\pm 2.5$	PASS
		VN	50	0.58	0.000813	$\pm 2.5$	PASS
		VN	-30	4.01	0.005716	$\pm 2.5$	PASS
		VN	-20	4.81	0.006857	$\pm 2.5$	PASS
		VN	-10	3.32	0.004733	$\pm 2.5$	PASS
		VN	0	4.66	0.006643	$\pm 2.5$	PASS
		VN	10	2.32	0.003307	$\pm 2.5$	PASS
		VN	20	-0.15	-0.000214	$\pm 2.5$	PASS
	LCH	VN	30	2.65	0.003778	$\pm 2.5$	PASS
		VN	40	-0.86	-0.001226	$\pm 2.5$	PASS
		VN	50	-0.15	-0.000214	$\pm 2.5$	PASS
		VN	-30	3.53	0.004989	$\pm 2.5$	PASS
		VN	-20	0.38	0.000537	$\pm 2.5$	PASS
		VN	-10	-1.32	-0.001866	$\pm 2.5$	PASS
		VN	0	0.56	0.000792	$\pm 2.5$	PASS
		VN	10	-0.49	-0.000693	$\pm 2.5$	PASS
		VN	20	-1.72	-0.002431	$\pm 2.5$	PASS
		VN	30	4.16	0.005880	$\pm 2.5$	PASS
	MCH	VN	40	2.49	0.003519	$\pm 2.5$	PASS
		VN	50	-0.9	-0.001272	$\pm 2.5$	PASS
		VN	-30	3.94	0.005522	$\pm 2.5$	PASS
		VN	-20	-1.53	-0.002144	$\pm 2.5$	PASS
		VN	-10	4.33	0.006069	$\pm 2.5$	PASS
		VN	0	2.33	0.003266	$\pm 2.5$	PASS
		VN	10	1.63	0.002285	$\pm 2.5$	PASS
		VN	20	3.85	0.005396	$\pm 2.5$	PASS
		VN	30	1.12	0.001570	$\pm 2.5$	PASS
		VN	40	4.97	0.006966	$\pm 2.5$	PASS
	HCH	VN	50	-1.26	-0.001766	$\pm 2.5$	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	-0.33	-0.000469	± 2.5	PASS
		VN	TN	0.33	0.000469	± 2.5	PASS
		VH	TN	-0.77	-0.001094	± 2.5	PASS
	MCH	VL	TN	2.48	0.003505	± 2.5	PASS
		VN	TN	2.29	0.003237	± 2.5	PASS
		VH	TN	4.85	0.006855	± 2.5	PASS
	HCH	VL	TN	1.96	0.002757	± 2.5	PASS
		VN	TN	3.43	0.004824	± 2.5	PASS
		VH	TN	2.67	0.003755	± 2.5	PASS
16QAM	LCH	VL	TN	-1.69	-0.002401	± 2.5	PASS
		VN	TN	0.3	0.000426	± 2.5	PASS
		VH	TN	-0.77	-0.001094	± 2.5	PASS
	MCH	VL	TN	4.28	0.006049	± 2.5	PASS
		VN	TN	-0.19	-0.000269	± 2.5	PASS
		VH	TN	1.96	0.002770	± 2.5	PASS
	HCH	VL	TN	-0.43	-0.000605	± 2.5	PASS
		VN	TN	-0.42	-0.000591	± 2.5	PASS
		VH	TN	2.74	0.003854	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	1.53	0.002173	± 2.5	PASS
		VN	-20	4.68	0.006648	± 2.5	PASS
		VN	-10	1.38	0.001960	± 2.5	PASS
		VN	0	1.42	0.002017	± 2.5	PASS
		VN	10	1.43	0.002031	± 2.5	PASS
		VN	20	1.73	0.002457	± 2.5	PASS
		VN	30	3.55	0.005043	± 2.5	PASS
		VN	40	-1.92	-0.002727	± 2.5	PASS
		VN	50	-0.65	-0.000923	± 2.5	PASS
	MCH	VN	-30	-0.75	-0.001060	± 2.5	PASS
		VN	-20	-1	-0.001413	± 2.5	PASS
		VN	-10	2.52	0.003562	± 2.5	PASS
		VN	0	0.24	0.000339	± 2.5	PASS
		VN	10	3.47	0.004905	± 2.5	PASS
		VN	20	0.61	0.000862	± 2.5	PASS

		VN	30	-1.52	-0.002148	$\pm 2.5$	PASS
		VN	40	-1.62	-0.002290	$\pm 2.5$	PASS
		VN	50	0.65	0.000919	$\pm 2.5$	PASS
	HCH	VN	-30	4.82	0.006779	$\pm 2.5$	PASS
		VN	-20	4.03	0.005668	$\pm 2.5$	PASS
		VN	-10	3.15	0.004430	$\pm 2.5$	PASS
		VN	0	2.6	0.003657	$\pm 2.5$	PASS
		VN	10	0.54	0.000759	$\pm 2.5$	PASS
		VN	20	1.08	0.001519	$\pm 2.5$	PASS
		VN	30	4.9	0.006892	$\pm 2.5$	PASS
	LCH	VN	40	3.03	0.004262	$\pm 2.5$	PASS
		VN	50	-0.24	-0.000338	$\pm 2.5$	PASS
	MCH	VN	-30	3.04	0.004318	$\pm 2.5$	PASS
		VN	-20	1.83	0.002599	$\pm 2.5$	PASS
		VN	-10	4.08	0.005795	$\pm 2.5$	PASS
		VN	0	1.86	0.002642	$\pm 2.5$	PASS
		VN	10	-0.53	-0.000753	$\pm 2.5$	PASS
		VN	20	-1.16	-0.001648	$\pm 2.5$	PASS
		VN	30	1.93	0.002741	$\pm 2.5$	PASS
		VN	40	-1.08	-0.001534	$\pm 2.5$	PASS
		VN	50	2.35	0.003338	$\pm 2.5$	PASS
	HCH	VN	-30	3.45	0.004876	$\pm 2.5$	PASS
		VN	-20	0.85	0.001201	$\pm 2.5$	PASS
		VN	-10	4.57	0.006459	$\pm 2.5$	PASS
		VN	0	3.18	0.004495	$\pm 2.5$	PASS
		VN	10	4.25	0.006007	$\pm 2.5$	PASS
		VN	20	4.67	0.006601	$\pm 2.5$	PASS
		VN	30	3.46	0.004890	$\pm 2.5$	PASS
		VN	40	-0.71	-0.001004	$\pm 2.5$	PASS
		VN	50	4.73	0.006686	$\pm 2.5$	PASS
		VN	-30	0.15	0.000211	$\pm 2.5$	PASS