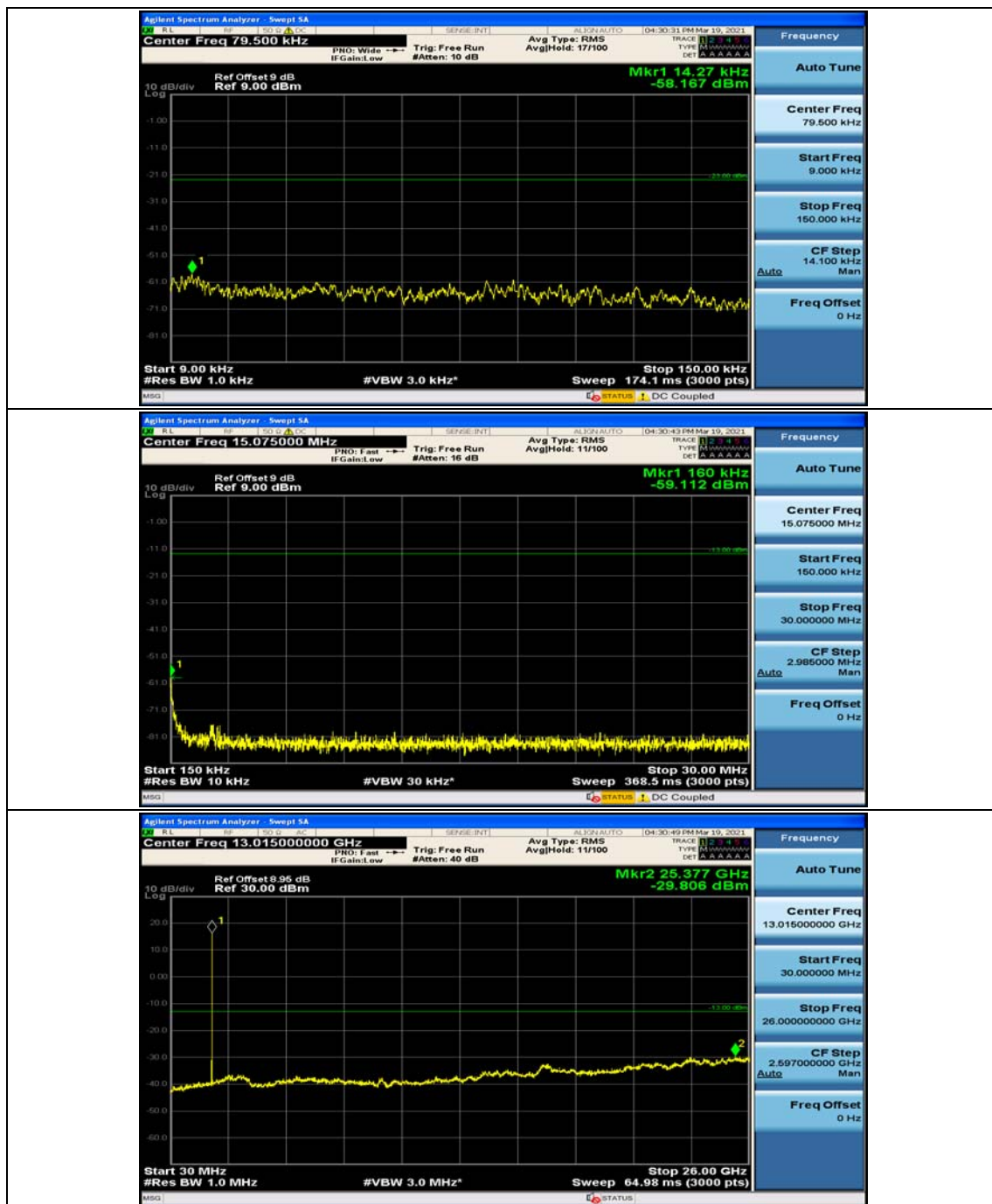




Appendix F: Frequency Stability

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	1.27	0.000686	± 2.5	PASS
		VN	TN	3.63	0.001961	± 2.5	PASS
		VH	TN	4.85	0.002621	± 2.5	PASS
	MCH	VL	TN	2.13	0.001133	± 2.5	PASS
		VN	TN	1.79	0.000952	± 2.5	PASS
		VH	TN	4.47	0.002378	± 2.5	PASS
	HCH	VL	TN	-0.77	-0.000403	± 2.5	PASS
		VN	TN	3.75	0.001964	± 2.5	PASS
		VH	TN	-0.32	-0.000168	± 2.5	PASS
16QAM	LCH	VL	TN	4.73	0.002556	± 2.5	PASS
		VN	TN	3.02	0.001632	± 2.5	PASS
		VH	TN	3.65	0.001972	± 2.5	PASS
	MCH	VL	TN	-1.31	-0.000697	± 2.5	PASS
		VN	TN	-0.4	-0.000213	± 2.5	PASS
		VH	TN	2.16	0.001149	± 2.5	PASS
	HCH	VL	TN	-0.1	-0.000052	± 2.5	PASS
		VN	TN	2.85	0.001493	± 2.5	PASS
		VH	TN	4.26	0.002231	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.88	0.002637	± 2.5	PASS
		VN	-20	3.13	0.001691	± 2.5	PASS
		VN	-10	0.49	0.000265	± 2.5	PASS
		VN	0	0.65	0.000351	± 2.5	PASS
		VN	10	0.19	0.000103	± 2.5	PASS
		VN	20	1.79	0.000967	± 2.5	PASS
		VN	30	3.13	0.001691	± 2.5	PASS
		VN	40	3.69	0.001994	± 2.5	PASS
		VN	50	1.48	0.000800	± 2.5	PASS
	MCH	VN	-30	0.77	0.000410	± 2.5	PASS

		VN	-20	2.53	0.001346	± 2.5	PASS
		VN	-10	-0.08	-0.000043	± 2.5	PASS
		VN	0	-1.52	-0.000809	± 2.5	PASS
		VN	10	2.63	0.001399	± 2.5	PASS
		VN	20	3.46	0.001840	± 2.5	PASS
		VN	30	0.21	0.000112	± 2.5	PASS
		VN	40	3.53	0.001878	± 2.5	PASS
		VN	50	4.18	0.002223	± 2.5	PASS
	HCH	VN	-30	4.62	0.002420	± 2.5	PASS
		VN	-20	4.72	0.002472	± 2.5	PASS
		VN	-10	0.09	0.000047	± 2.5	PASS
		VN	0	2.97	0.001556	± 2.5	PASS
		VN	10	1.72	0.000901	± 2.5	PASS
		VN	20	-0.61	-0.000319	± 2.5	PASS
		VN	30	3.71	0.001943	± 2.5	PASS
		VN	40	-0.51	-0.000267	± 2.5	PASS
		VN	50	4.11	0.002153	± 2.5	PASS
16QAM	LCH	VN	-30	-1.34	-0.000724	± 2.5	PASS
		VN	-20	3.51	0.001897	± 2.5	PASS
		VN	-10	2.72	0.001470	± 2.5	PASS
		VN	0	2.96	0.001599	± 2.5	PASS
		VN	10	3.61	0.001951	± 2.5	PASS
		VN	20	4.43	0.002394	± 2.5	PASS
		VN	30	-0.13	-0.000070	± 2.5	PASS
		VN	40	-1.54	-0.000832	± 2.5	PASS
		VN	50	3.57	0.001929	± 2.5	PASS
	MCH	VN	-30	0.37	0.000197	± 2.5	PASS
		VN	-20	3.54	0.001883	± 2.5	PASS
		VN	-10	-1.32	-0.000702	± 2.5	PASS
		VN	0	0.42	0.000223	± 2.5	PASS
		VN	10	3.03	0.001612	± 2.5	PASS
		VN	20	-0.85	-0.000452	± 2.5	PASS
		VN	30	3.12	0.001660	± 2.5	PASS
		VN	40	1.52	0.000809	± 2.5	PASS
		VN	50	4.16	0.002213	± 2.5	PASS
	HCH	VN	-30	4.07	0.002132	± 2.5	PASS
		VN	-20	0.64	0.000335	± 2.5	PASS
		VN	-10	0.18	0.000094	± 2.5	PASS
		VN	0	4.15	0.002174	± 2.5	PASS
		VN	10	0.99	0.000519	± 2.5	PASS
		VN	20	-1.63	-0.000854	± 2.5	PASS

		VN	30	4.66	0.002441	± 2.5	PASS
		VN	40	-0.2	-0.000105	± 2.5	PASS
		VN	50	-0.02	-0.000010	± 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	3.61	0.001950	± 2.5	PASS
		VN	TN	1.25	0.000675	± 2.5	PASS
		VH	TN	0.28	0.000151	± 2.5	PASS
	MCH	VL	TN	2.01	0.001069	± 2.5	PASS
		VN	TN	3.94	0.002096	± 2.5	PASS
		VH	TN	2.62	0.001394	± 2.5	PASS
	HCH	VL	TN	3.95	0.002070	± 2.5	PASS
		VN	TN	0.6	0.000314	± 2.5	PASS
		VH	TN	3.13	0.001640	± 2.5	PASS
16QAM	LCH	VL	TN	0.65	0.000351	± 2.5	PASS
		VN	TN	-1.27	-0.000686	± 2.5	PASS
		VH	TN	1.13	0.000610	± 2.5	PASS
	MCH	VL	TN	2.86	0.001521	± 2.5	PASS
		VN	TN	-1.11	-0.000590	± 2.5	PASS
		VH	TN	3.41	0.001814	± 2.5	PASS
	HCH	VL	TN	2.18	0.001142	± 2.5	PASS
		VN	TN	2.56	0.001341	± 2.5	PASS
		VH	TN	-0.91	-0.000477	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.05	0.000567	± 2.5	PASS
		VN	-20	2.74	0.001480	± 2.5	PASS
		VN	-10	2.12	0.001145	± 2.5	PASS
		VN	0	2.79	0.001507	± 2.5	PASS
		VN	10	3.85	0.002079	± 2.5	PASS
		VN	20	2.89	0.001561	± 2.5	PASS
		VN	30	2.68	0.001447	± 2.5	PASS
		VN	40	-1.75	-0.000945	± 2.5	PASS
		VN	50	1.08	0.000583	± 2.5	PASS
	MCH	VN	-30	-1.59	-0.000846	± 2.5	PASS
		VN	-20	4.83	0.002569	± 2.5	PASS

		VN	-10	-1.82	-0.000968	± 2.5	PASS	
		VN	0	-0.23	-0.000122	± 2.5	PASS	
		VN	10	1.29	0.000686	± 2.5	PASS	
		VN	20	1.83	0.000973	± 2.5	PASS	
		VN	30	3.33	0.001771	± 2.5	PASS	
		VN	40	2.75	0.001463	± 2.5	PASS	
		VN	50	-0.58	-0.000309	± 2.5	PASS	
	HCH	VN	-30	-1.73	-0.000906	± 2.5	PASS	
		VN	-20	3.64	0.001907	± 2.5	PASS	
		VN	-10	0.93	0.000487	± 2.5	PASS	
		VN	0	-1.87	-0.000980	± 2.5	PASS	
		VN	10	3.56	0.001865	± 2.5	PASS	
		VN	20	4.76	0.002494	± 2.5	PASS	
		VN	30	2.99	0.001567	± 2.5	PASS	
		VN	40	1.1	0.000576	± 2.5	PASS	
		VN	50	2.15	0.001127	± 2.5	PASS	
	16QAM	LCH	VN	-30	5	0.002701	± 2.5	PASS
			VN	-20	2.18	0.001177	± 2.5	PASS
VN			-10	2.24	0.001210	± 2.5	PASS	
VN			0	3.26	0.001761	± 2.5	PASS	
VN			10	1.08	0.000583	± 2.5	PASS	
VN			20	1.78	0.000961	± 2.5	PASS	
VN			30	-0.87	-0.000470	± 2.5	PASS	
VN			40	3.73	0.002015	± 2.5	PASS	
VN			50	2.64	0.001426	± 2.5	PASS	
MCH		VN	-30	3.55	0.001888	± 2.5	PASS	
		VN	-20	-0.19	-0.000101	± 2.5	PASS	
		VN	-10	2.1	0.001117	± 2.5	PASS	
		VN	0	2.14	0.001138	± 2.5	PASS	
		VN	10	2.09	0.001112	± 2.5	PASS	
		VN	20	2.42	0.001287	± 2.5	PASS	
		VN	30	3.14	0.001670	± 2.5	PASS	
		VN	40	2.03	0.001080	± 2.5	PASS	
		VN	50	-1.15	-0.000612	± 2.5	PASS	
HCH		VN	-30	2	0.001048	± 2.5	PASS	
		VN	-20	4.23	0.002216	± 2.5	PASS	
		VN	-10	4.56	0.002389	± 2.5	PASS	
		VN	0	0.98	0.000513	± 2.5	PASS	
		VN	10	-0.29	-0.000152	± 2.5	PASS	
		VN	20	0.74	0.000388	± 2.5	PASS	
		VN	30	3.76	0.001970	± 2.5	PASS	

		VN	40	3.07	0.001609	± 2.5	PASS
		VN	50	-0.56	-0.000293	± 2.5	PASS

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	-1.28	-0.000691	± 2.5	PASS
		VN	TN	-0.65	-0.000351	± 2.5	PASS
		VH	TN	0.42	0.000227	± 2.5	PASS
	MCH	VL	TN	-1.18	-0.000628	± 2.5	PASS
		VN	TN	4.63	0.002463	± 2.5	PASS
		VH	TN	0.52	0.000277	± 2.5	PASS
	HCH	VL	TN	-1.63	-0.000855	± 2.5	PASS
		VN	TN	1.55	0.000813	± 2.5	PASS
		VH	TN	1.89	0.000991	± 2.5	PASS
16QAM	LCH	VL	TN	2.53	0.001366	± 2.5	PASS
		VN	TN	2.5	0.001350	± 2.5	PASS
		VH	TN	-1.95	-0.001053	± 2.5	PASS
	MCH	VL	TN	-0.56	-0.000298	± 2.5	PASS
		VN	TN	2	0.001064	± 2.5	PASS
		VH	TN	2.32	0.001234	± 2.5	PASS
	HCH	VL	TN	2.23	0.001169	± 2.5	PASS
		VN	TN	-0.22	-0.000115	± 2.5	PASS
		VH	TN	-0.26	-0.000136	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.31	0.001787	± 2.5	PASS
		VN	-20	0.01	0.000005	± 2.5	PASS
		VN	-10	2.26	0.001220	± 2.5	PASS
		VN	0	4.9	0.002645	± 2.5	PASS
		VN	10	0	0.000000	± 2.5	PASS
		VN	20	1.4	0.000756	± 2.5	PASS
		VN	30	1.13	0.000610	± 2.5	PASS
		VN	40	-1.54	-0.000831	± 2.5	PASS
		VN	50	4.01	0.002165	± 2.5	PASS
	MCH	VN	-30	0.14	0.000074	± 2.5	PASS
		VN	-20	-1.7	-0.000904	± 2.5	PASS
		VN	-10	4.09	0.002176	± 2.5	PASS

		VN	0	0.85	0.000452	± 2.5	PASS
		VN	10	3.53	0.001878	± 2.5	PASS
		VN	20	1.23	0.000654	± 2.5	PASS
		VN	30	4.07	0.002165	± 2.5	PASS
		VN	40	0.39	0.000207	± 2.5	PASS
		VN	50	2.55	0.001356	± 2.5	PASS
	HCH	VN	-30	0.61	0.000320	± 2.5	PASS
		VN	-20	-0.32	-0.000168	± 2.5	PASS
		VN	-10	4.24	0.002223	± 2.5	PASS
		VN	0	2.02	0.001059	± 2.5	PASS
		VN	10	1.74	0.000912	± 2.5	PASS
		VN	20	4.82	0.002527	± 2.5	PASS
		VN	30	3.11	0.001630	± 2.5	PASS
		VN	40	1.56	0.000818	± 2.5	PASS
		VN	50	4.39	0.002301	± 2.5	PASS
16QAM	LCH	VN	-30	0.13	0.000070	± 2.5	PASS
		VN	-20	2.22	0.001198	± 2.5	PASS
		VN	-10	3.36	0.001814	± 2.5	PASS
		VN	0	-1.4	-0.000756	± 2.5	PASS
		VN	10	2.41	0.001301	± 2.5	PASS
		VN	20	4.93	0.002661	± 2.5	PASS
		VN	30	-0.43	-0.000232	± 2.5	PASS
		VN	40	1.19	0.000642	± 2.5	PASS
		VN	50	-0.23	-0.000124	± 2.5	PASS
	MCH	VN	-30	2.55	0.001356	± 2.5	PASS
		VN	-20	4.63	0.002463	± 2.5	PASS
		VN	-10	2.9	0.001543	± 2.5	PASS
		VN	0	-1.21	-0.000644	± 2.5	PASS
		VN	10	-1.24	-0.000660	± 2.5	PASS
		VN	20	-0.97	-0.000516	± 2.5	PASS
		VN	30	1.29	0.000686	± 2.5	PASS
		VN	40	4.26	0.002266	± 2.5	PASS
		VN	50	0.16	0.000085	± 2.5	PASS
	HCH	VN	-30	0.74	0.000388	± 2.5	PASS
		VN	-20	-0.55	-0.000288	± 2.5	PASS
		VN	-10	1.51	0.000792	± 2.5	PASS
		VN	0	-1.99	-0.001043	± 2.5	PASS
		VN	10	-1.04	-0.000545	± 2.5	PASS
		VN	20	4.44	0.002328	± 2.5	PASS
		VN	30	4.87	0.002553	± 2.5	PASS
		VN	40	-0.79	-0.000414	± 2.5	PASS

		VN	50	2.21	0.001159	± 2.5	PASS
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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	0.23	0.000124	± 2.5	PASS
		VN	TN	3.62	0.001951	± 2.5	PASS
		VH	TN	0.68	0.000367	± 2.5	PASS
	MCH	VL	TN	2.08	0.001106	± 2.5	PASS
		VN	TN	-1.65	-0.000878	± 2.5	PASS
		VH	TN	0.58	0.000309	± 2.5	PASS
	HCH	VL	TN	-1.53	-0.000803	± 2.5	PASS
		VN	TN	-0.27	-0.000142	± 2.5	PASS
		VH	TN	4.77	0.002504	± 2.5	PASS
16QAM	LCH	VL	TN	0.51	0.000275	± 2.5	PASS
		VN	TN	1.94	0.001046	± 2.5	PASS
		VH	TN	1.45	0.000782	± 2.5	PASS
	MCH	VL	TN	2.8	0.001489	± 2.5	PASS
		VN	TN	3.75	0.001995	± 2.5	PASS
		VH	TN	-1.71	-0.000910	± 2.5	PASS
	HCH	VL	TN	1.87	0.000982	± 2.5	PASS
		VN	TN	2.9	0.001522	± 2.5	PASS
		VH	TN	0.46	0.000241	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.91	0.001030	± 2.5	PASS
		VN	-20	4.45	0.002399	± 2.5	PASS
		VN	-10	4.45	0.002399	± 2.5	PASS
		VN	0	3.46	0.001865	± 2.5	PASS
		VN	10	3.65	0.001968	± 2.5	PASS
		VN	20	2.44	0.001315	± 2.5	PASS
		VN	30	2	0.001078	± 2.5	PASS
		VN	40	3.82	0.002059	± 2.5	PASS
		VN	50	4.68	0.002523	± 2.5	PASS
	MCH	VN	-30	1.64	0.000872	± 2.5	PASS
		VN	-20	-0.69	-0.000367	± 2.5	PASS
		VN	-10	-1.39	-0.000739	± 2.5	PASS
		VN	0	0.97	0.000516	± 2.5	PASS

		VN	10	2.65	0.001410	± 2.5	PASS
		VN	20	-1.56	-0.000830	± 2.5	PASS
		VN	30	2.53	0.001346	± 2.5	PASS
		VN	40	2.94	0.001564	± 2.5	PASS
		VN	50	2.52	0.001340	± 2.5	PASS
	HCH	VN	-30	-1.98	-0.001039	± 2.5	PASS
		VN	-20	-0.75	-0.000394	± 2.5	PASS
		VN	-10	1.62	0.000850	± 2.5	PASS
		VN	0	0.53	0.000278	± 2.5	PASS
		VN	10	2.78	0.001459	± 2.5	PASS
		VN	20	2.41	0.001265	± 2.5	PASS
		VN	30	1.95	0.001024	± 2.5	PASS
		VN	40	0.17	0.000089	± 2.5	PASS
		VN	50	-1.7	-0.000892	± 2.5	PASS
16QAM	LCH	VN	-30	-0.69	-0.000372	± 2.5	PASS
		VN	-20	4.23	0.002280	± 2.5	PASS
		VN	-10	2.04	0.001100	± 2.5	PASS
		VN	0	-1.78	-0.000960	± 2.5	PASS
		VN	10	0.77	0.000415	± 2.5	PASS
		VN	20	1.01	0.000544	± 2.5	PASS
		VN	30	0.16	0.000086	± 2.5	PASS
		VN	40	1.58	0.000852	± 2.5	PASS
		VN	50	-1.99	-0.001073	± 2.5	PASS
	MCH	VN	-30	1.74	0.000926	± 2.5	PASS
		VN	-20	0.94	0.000500	± 2.5	PASS
		VN	-10	-0.77	-0.000410	± 2.5	PASS
		VN	0	0.33	0.000176	± 2.5	PASS
		VN	10	-1.69	-0.000899	± 2.5	PASS
		VN	20	2.75	0.001463	± 2.5	PASS
		VN	30	2.92	0.001553	± 2.5	PASS
		VN	40	4.94	0.002628	± 2.5	PASS
		VN	50	2.06	0.001096	± 2.5	PASS
	HCH	VN	-30	4.6	0.002415	± 2.5	PASS
		VN	-20	-0.28	-0.000147	± 2.5	PASS
		VN	-10	-1.19	-0.000625	± 2.5	PASS
		VN	0	4.1	0.002152	± 2.5	PASS
		VN	10	1.59	0.000835	± 2.5	PASS
		VN	20	4.91	0.002577	± 2.5	PASS
		VN	30	3.02	0.001585	± 2.5	PASS
		VN	40	2.79	0.001465	± 2.5	PASS
		VN	50	5	0.002625	± 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	0.25	0.000135	± 2.5	PASS
		VN	TN	-1.06	-0.000571	± 2.5	PASS
		VH	TN	4.71	0.002536	± 2.5	PASS
	MCH	VL	TN	4.56	0.002426	± 2.5	PASS
		VN	TN	1.64	0.000872	± 2.5	PASS
		VH	TN	1.2	0.000638	± 2.5	PASS
	HCH	VL	TN	4.72	0.002481	± 2.5	PASS
		VN	TN	3.62	0.001903	± 2.5	PASS
		VH	TN	-0.35	-0.000184	± 2.5	PASS
16QAM	LCH	VL	TN	1.43	0.000770	± 2.5	PASS
		VN	TN	4.53	0.002439	± 2.5	PASS
		VH	TN	-0.93	-0.000501	± 2.5	PASS
	MCH	VL	TN	3.4	0.001809	± 2.5	PASS
		VN	TN	-0.25	-0.000133	± 2.5	PASS
		VH	TN	-1.62	-0.000862	± 2.5	PASS
	HCH	VL	TN	4.21	0.002213	± 2.5	PASS
		VN	TN	4.34	0.002281	± 2.5	PASS
		VH	TN	4.82	0.002534	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.92	0.002110	± 2.5	PASS
		VN	-20	2.16	0.001163	± 2.5	PASS
		VN	-10	4.62	0.002487	± 2.5	PASS
		VN	0	1.79	0.000964	± 2.5	PASS
		VN	10	1.16	0.000624	± 2.5	PASS
		VN	20	1.33	0.000716	± 2.5	PASS
		VN	30	0.12	0.000065	± 2.5	PASS
		VN	40	-1.8	-0.000969	± 2.5	PASS
		VN	50	-1.24	-0.000668	± 2.5	PASS
	MCH	VN	-30	-0.09	-0.000048	± 2.5	PASS
		VN	-20	2.85	0.001516	± 2.5	PASS
		VN	-10	1.95	0.001037	± 2.5	PASS
		VN	0	-1.28	-0.000681	± 2.5	PASS
		VN	10	3.86	0.002053	± 2.5	PASS

		VN	20	0.08	0.000043	± 2.5	PASS
		VN	30	4.03	0.002144	± 2.5	PASS
		VN	40	-1.52	-0.000809	± 2.5	PASS
		VN	50	2.92	0.001553	± 2.5	PASS
	HCH	VN	-30	0.9	0.000473	± 2.5	PASS
		VN	-20	-1.41	-0.000741	± 2.5	PASS
		VN	-10	-1.53	-0.000804	± 2.5	PASS
		VN	0	-1.91	-0.001004	± 2.5	PASS
		VN	10	-0.33	-0.000173	± 2.5	PASS
		VN	20	-1.52	-0.000799	± 2.5	PASS
		VN	30	0.54	0.000284	± 2.5	PASS
		VN	40	2.41	0.001267	± 2.5	PASS
		VN	50	-0.02	-0.000011	± 2.5	PASS
16QAM	LCH	VN	-30	2.55	0.001373	± 2.5	PASS
		VN	-20	1.69	0.000910	± 2.5	PASS
		VN	-10	-0.08	-0.000043	± 2.5	PASS
		VN	0	2.47	0.001330	± 2.5	PASS
		VN	10	1.71	0.000921	± 2.5	PASS
		VN	20	0.6	0.000323	± 2.5	PASS
		VN	30	2.78	0.001497	± 2.5	PASS
		VN	40	3.66	0.001970	± 2.5	PASS
		VN	50	-1.81	-0.000974	± 2.5	PASS
	MCH	VN	-30	4.76	0.002532	± 2.5	PASS
		VN	-20	-0.01	-0.000005	± 2.5	PASS
		VN	-10	4.88	0.002596	± 2.5	PASS
		VN	0	3.99	0.002122	± 2.5	PASS
		VN	10	2.5	0.001330	± 2.5	PASS
		VN	20	3.92	0.002085	± 2.5	PASS
		VN	30	-0.08	-0.000043	± 2.5	PASS
		VN	40	0.6	0.000319	± 2.5	PASS
		VN	50	-0.65	-0.000346	± 2.5	PASS
	HCH	VN	-30	1.23	0.000647	± 2.5	PASS
		VN	-20	-1.79	-0.000941	± 2.5	PASS
		VN	-10	1.18	0.000620	± 2.5	PASS
		VN	0	2.89	0.001519	± 2.5	PASS
		VN	10	-1.9	-0.000999	± 2.5	PASS
		VN	20	-0.08	-0.000042	± 2.5	PASS
		VN	30	2.07	0.001088	± 2.5	PASS
		VN	40	-0.11	-0.000058	± 2.5	PASS
		VN	50	0.25	0.000131	± 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	1.24	0.000667	± 2.5	PASS
		VN	TN	1.36	0.000731	± 2.5	PASS
		VH	TN	-0.08	-0.000043	± 2.5	PASS
	MCH	VL	TN	-1.47	-0.000782	± 2.5	PASS
		VN	TN	-0.26	-0.000138	± 2.5	PASS
		VH	TN	1.36	0.000723	± 2.5	PASS
	HCH	VL	TN	-0.79	-0.000416	± 2.5	PASS
		VN	TN	0.76	0.000400	± 2.5	PASS
		VH	TN	-0.52	-0.000274	± 2.5	PASS
16QAM	LCH	VL	TN	4.54	0.002441	± 2.5	PASS
		VN	TN	3.22	0.001731	± 2.5	PASS
		VH	TN	3.86	0.002075	± 2.5	PASS
	MCH	VL	TN	-1.84	-0.000979	± 2.5	PASS
		VN	TN	3.96	0.002106	± 2.5	PASS
		VH	TN	1.04	0.000553	± 2.5	PASS
	HCH	VL	TN	1.61	0.000847	± 2.5	PASS
		VN	TN	-1.6	-0.000842	± 2.5	PASS
		VH	TN	2.24	0.001179	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.29	-0.000694	± 2.5	PASS
		VN	-20	1.24	0.000667	± 2.5	PASS
		VN	-10	4.43	0.002382	± 2.5	PASS
		VN	0	3.67	0.001973	± 2.5	PASS
		VN	10	0.53	0.000285	± 2.5	PASS
		VN	20	0.19	0.000102	± 2.5	PASS
		VN	30	1.95	0.001048	± 2.5	PASS
		VN	40	-1.86	-0.001000	± 2.5	PASS
		VN	50	-0.37	-0.000199	± 2.5	PASS
	MCH	VN	-30	-1.38	-0.000734	± 2.5	PASS
		VN	-20	1.85	0.000984	± 2.5	PASS
		VN	-10	3.99	0.002122	± 2.5	PASS
		VN	0	-0.61	-0.000324	± 2.5	PASS
		VN	10	3.32	0.001766	± 2.5	PASS
		VN	20	-0.73	-0.000388	± 2.5	PASS

		VN	30	1.56	0.000830	± 2.5	PASS
		VN	40	2.92	0.001553	± 2.5	PASS
		VN	50	0.32	0.000170	± 2.5	PASS
	HCH	VN	-30	2.11	0.001111	± 2.5	PASS
		VN	-20	4.63	0.002437	± 2.5	PASS
		VN	-10	-1.63	-0.000858	± 2.5	PASS
		VN	0	2.88	0.001516	± 2.5	PASS
		VN	10	4.81	0.002532	± 2.5	PASS
		VN	20	3.16	0.001663	± 2.5	PASS
		VN	30	2.12	0.001116	± 2.5	PASS
		VN	40	4.02	0.002116	± 2.5	PASS
		VN	50	3.14	0.001653	± 2.5	PASS
16QAM	LCH	VN	-30	-0.56	-0.000301	± 2.5	PASS
		VN	-20	-0.22	-0.000118	± 2.5	PASS
		VN	-10	-0.09	-0.000048	± 2.5	PASS
		VN	0	0.44	0.000237	± 2.5	PASS
		VN	10	4	0.002151	± 2.5	PASS
		VN	20	0.81	0.000435	± 2.5	PASS
		VN	30	-1.43	-0.000769	± 2.5	PASS
		VN	40	-0.05	-0.000027	± 2.5	PASS
		VN	50	-1.66	-0.000892	± 2.5	PASS
	MCH	VN	-30	3.48	0.001851	± 2.5	PASS
		VN	-20	2.28	0.001213	± 2.5	PASS
		VN	-10	4.08	0.002170	± 2.5	PASS
		VN	0	4.59	0.002441	± 2.5	PASS
		VN	10	4.73	0.002516	± 2.5	PASS
		VN	20	0.4	0.000213	± 2.5	PASS
		VN	30	1.86	0.000989	± 2.5	PASS
		VN	40	2.88	0.001532	± 2.5	PASS
		VN	50	-1.74	-0.000926	± 2.5	PASS
	HCH	VN	-30	1.61	0.000847	± 2.5	PASS
		VN	-20	-0.6	-0.000316	± 2.5	PASS
		VN	-10	4.04	0.002126	± 2.5	PASS
		VN	0	2.97	0.001563	± 2.5	PASS
		VN	10	3.81	0.002005	± 2.5	PASS
		VN	20	0.23	0.000121	± 2.5	PASS
		VN	30	4.56	0.002400	± 2.5	PASS
		VN	40	4.84	0.002547	± 2.5	PASS
		VN	50	4.54	0.002389	± 2.5	PASS