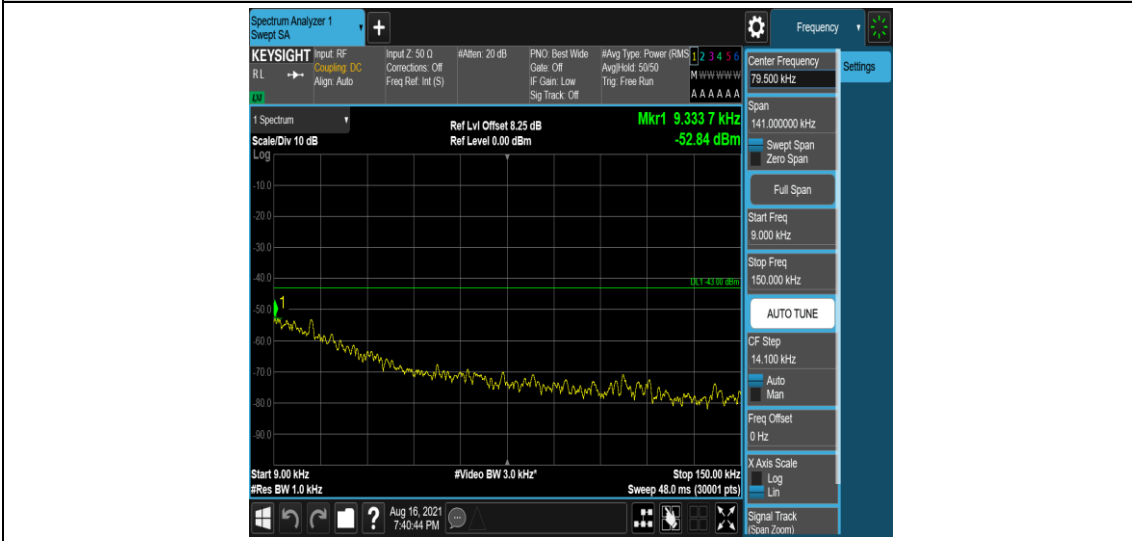
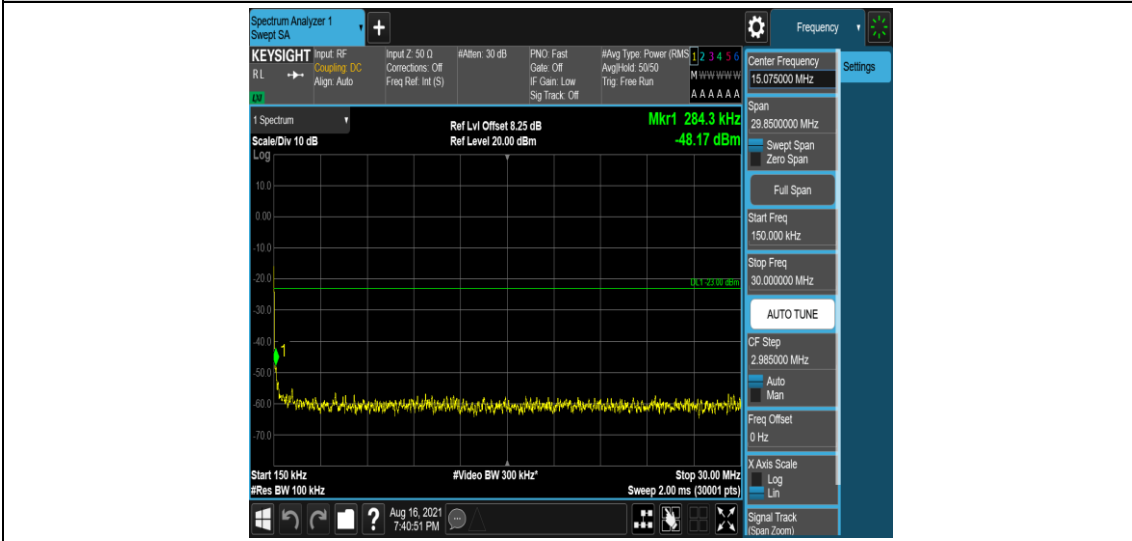


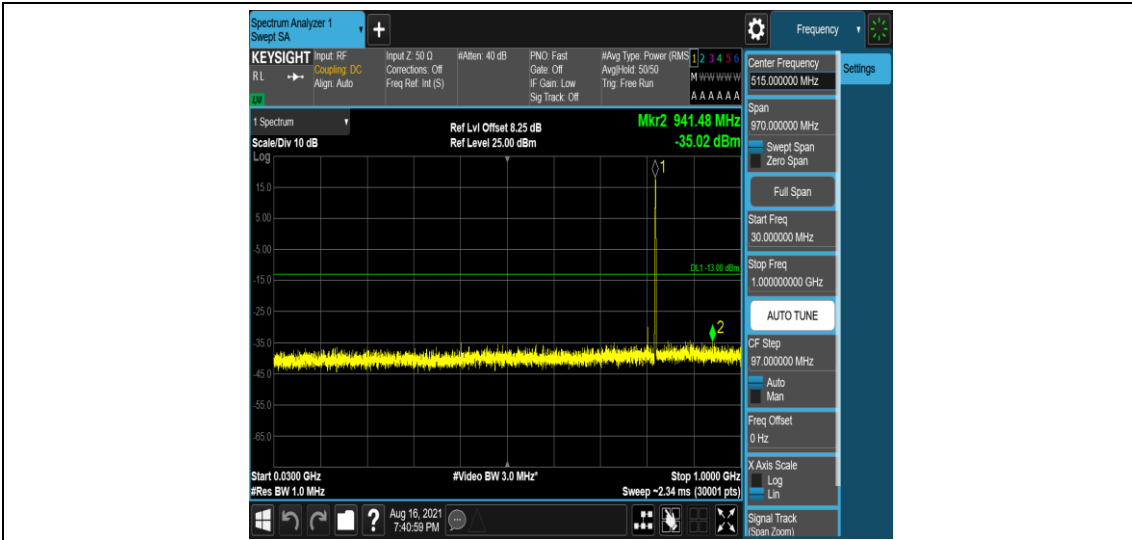
Band26-5MHz-QPSK-26740-1-0-Low-12000-26500--52.61-PASS



Band26-5MHz-QPSK-26765-1-0-High-0.009-0.15--52.84-PASS



Band26-5MHz-QPSK-26765-1-0-High-0.15-30--48.17-PASS



Band26-5MHz-QPSK-26765-1-0-High-30-1000--35.02-PASS



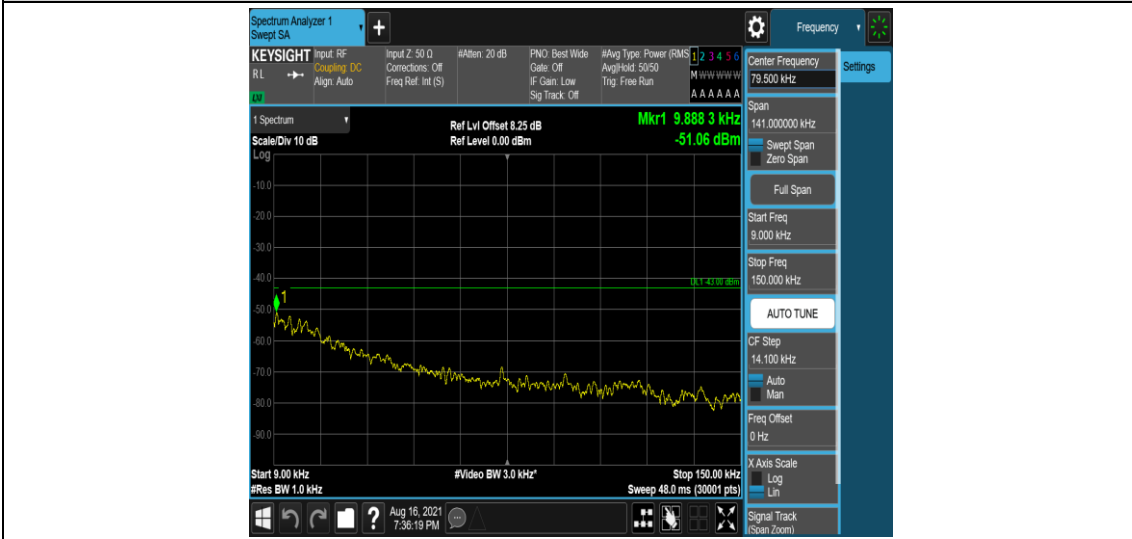
Band26-5MHz-QPSK-26765-1-0-High-1000-5000--36.88-PASS



Band26-5MHz-QPSK-26765-1-0-High-5000-12000--58.22-PASS



Band26-5MHz-QPSK-26765-1-0-High-12000-26500--52.57-PASS



Band26-5MHz-16QAM-26715-1-0-Low-0.009-0.15--51.07-PASS



Band26-5MHz-16QAM-26715-1-0-Low-0.15-30--50.72-PASS



Band26-5MHz-16QAM-26715-1-0-Low-30-1000--34.62-PASS



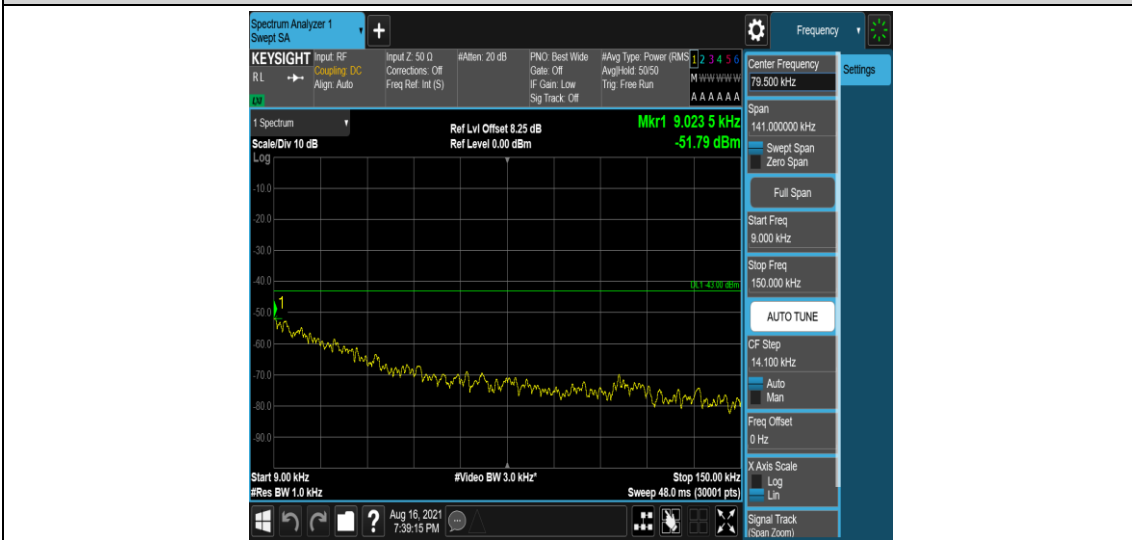
Band26-5MHz-16QAM-26715-1-0-Low-1000-5000--36.94-PASS



Band26-5MHz-16QAM-26715-1-0-Low-5000-12000--58.15-PASS



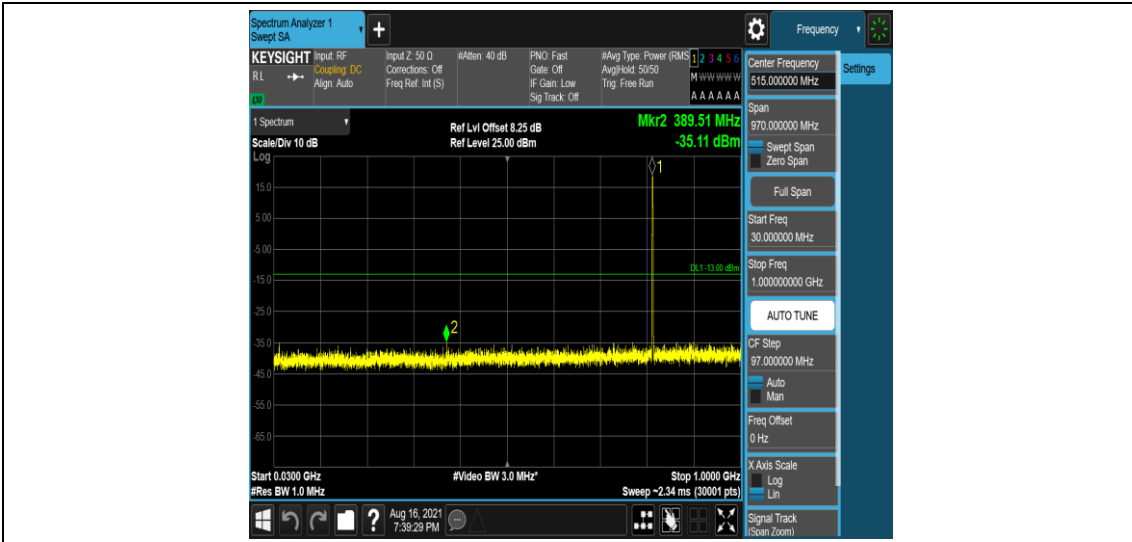
Band26-5MHz-16QAM-26715-1-0-Low-12000-26500--52.49-PASS



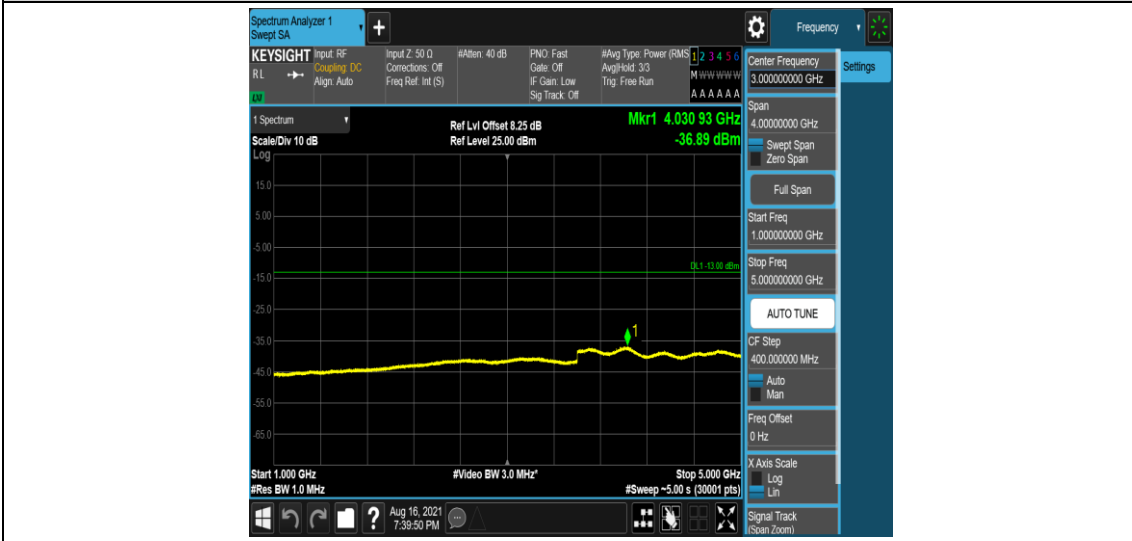
Band26-5MHz-16QAM-26740-1-0-Low-0.009-0.15--51.79-PASS



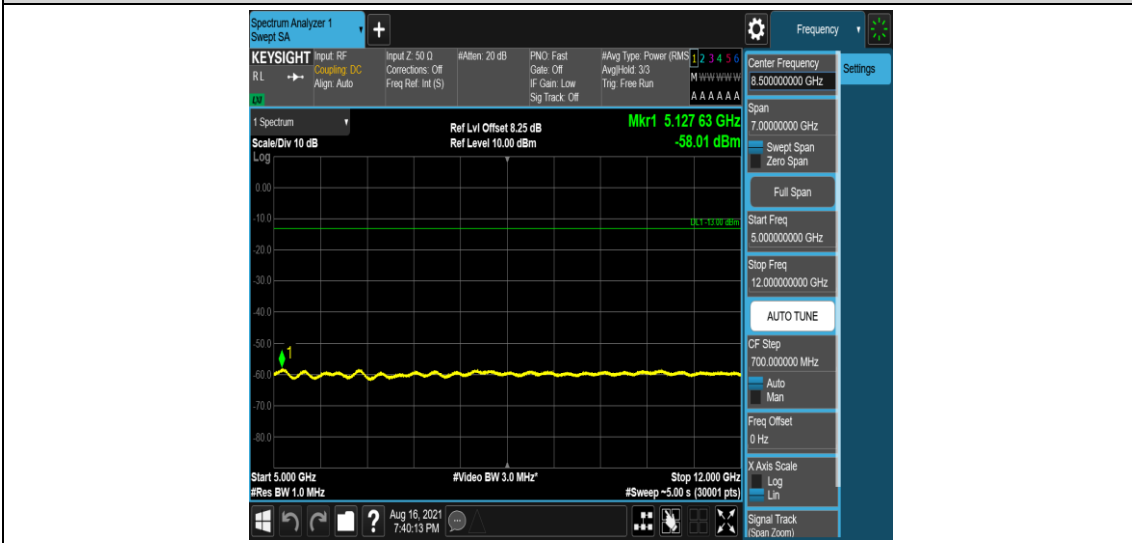
Band26-5MHz-16QAM-26740-1-0-Low-0.15-30--51.87-PASS



Band26-5MHz-16QAM-26740-1-0-Low-30-1000--35.12-PASS



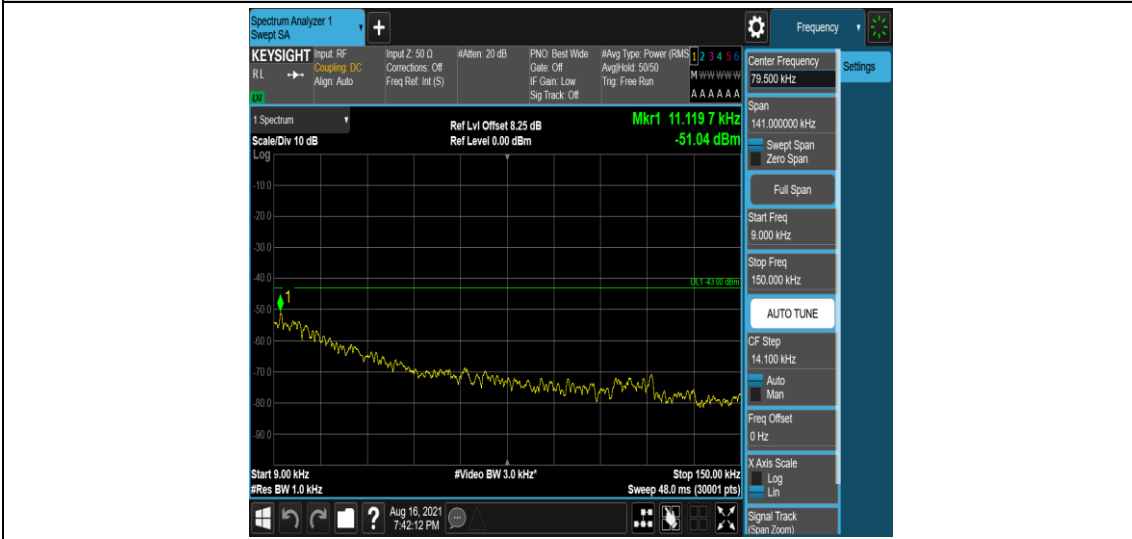
Band26-5MHz-16QAM-26740-1-0-Low-1000-5000--36.89-PASS



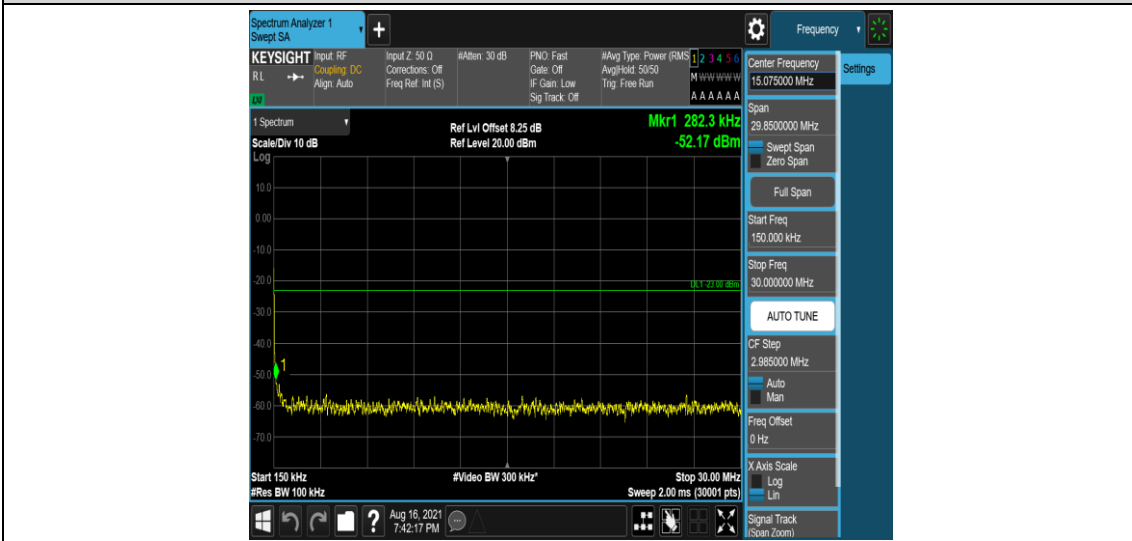
Band26-5MHz-16QAM-26740-1-0-Low-5000-12000--58.01-PASS



Band26-5MHz-16QAM-26740-1-0-Low-12000-26500--52.76-PASS



Band26-5MHz-16QAM-26765-1-0-High-0.009-0.15--51.04-PASS



Band26-5MHz-16QAM-26765-1-0-High-0.15-30--52.17-PASS



Band26-5MHz-16QAM-26765-1-0-High-30-1000--34.05-PASS



Band26-5MHz-16QAM-26765-1-0-High-1000-5000--36.94-PASS

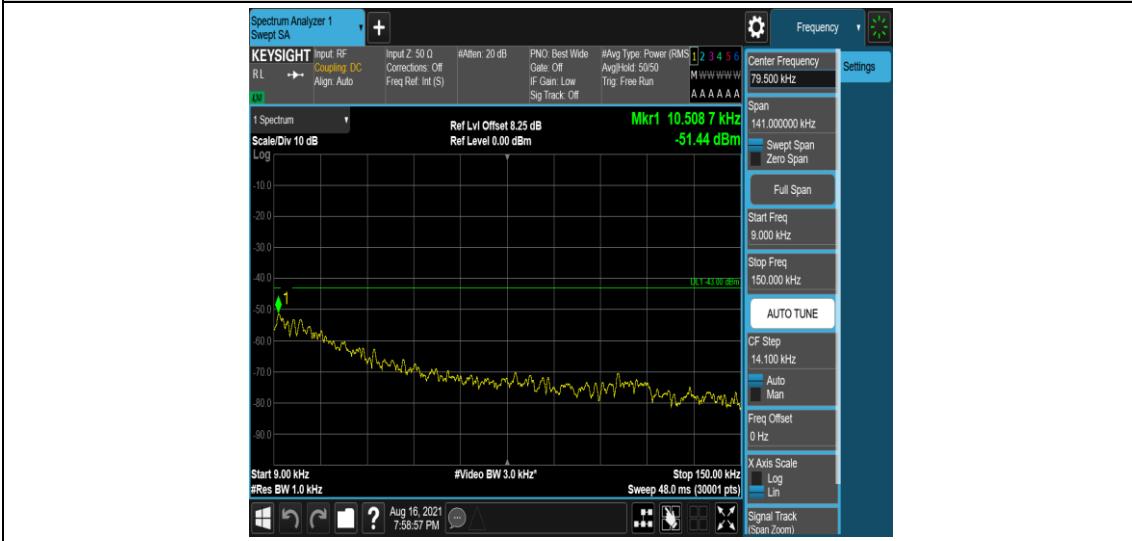


Band26-5MHz-16QAM-26765-1-0-High-5000-12000--57.99-PASS

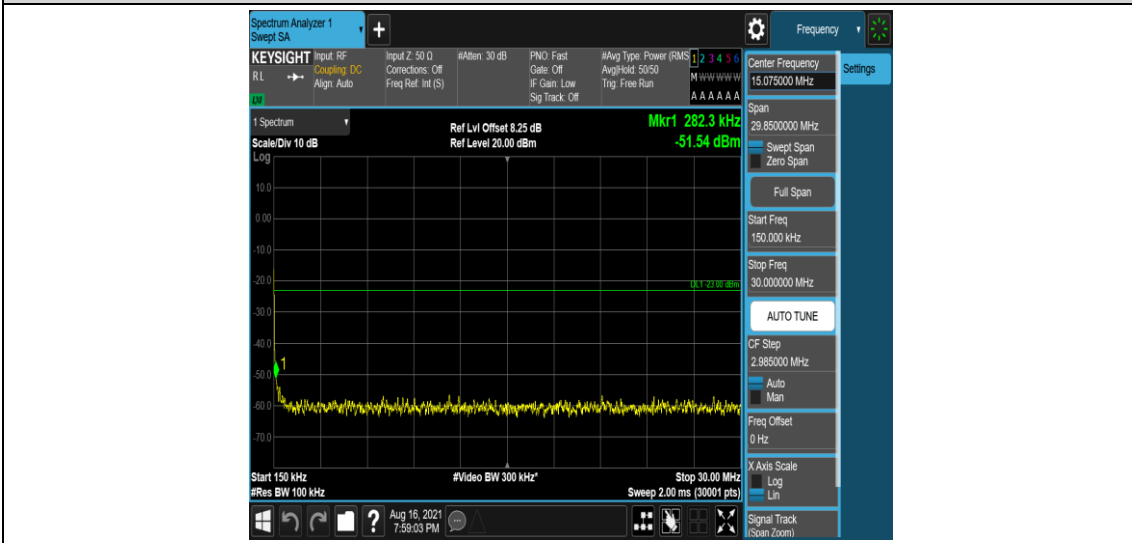




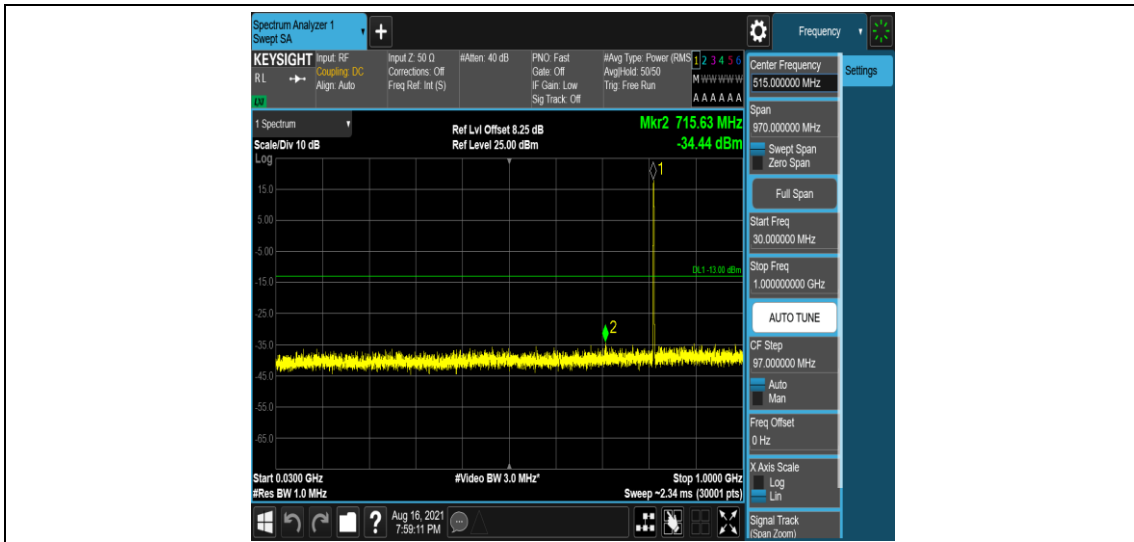
Band26-5MHz-16QAM-26765-1-0-High-12000-26500--52.69-PASS



Band26-10MHz-QPSK-26740-1-0-Low-0.009-0.15--51.44-PASS



Band26-10MHz-QPSK-26740-1-0-Low-0.15-30--51.54-PASS



Band26-10MHz-QPSK-26740-1-0-Low-30-1000--34.44-PASS



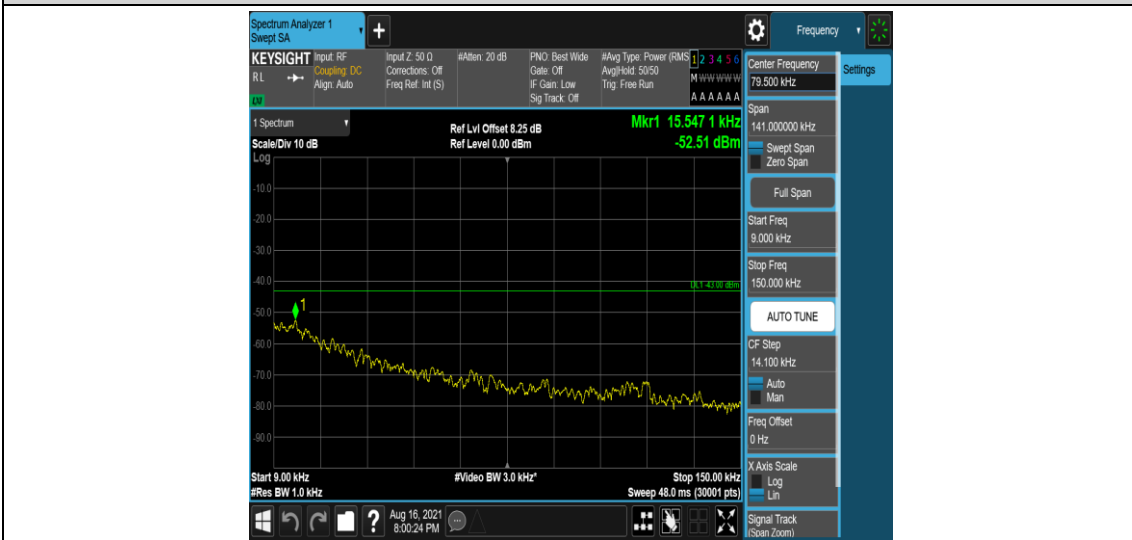
Band26-10MHz-QPSK-26740-1-0-Low-1000-5000--36.96-PASS



Band26-10MHz-QPSK-26740-1-0-Low-5000-12000--58.03-PASS



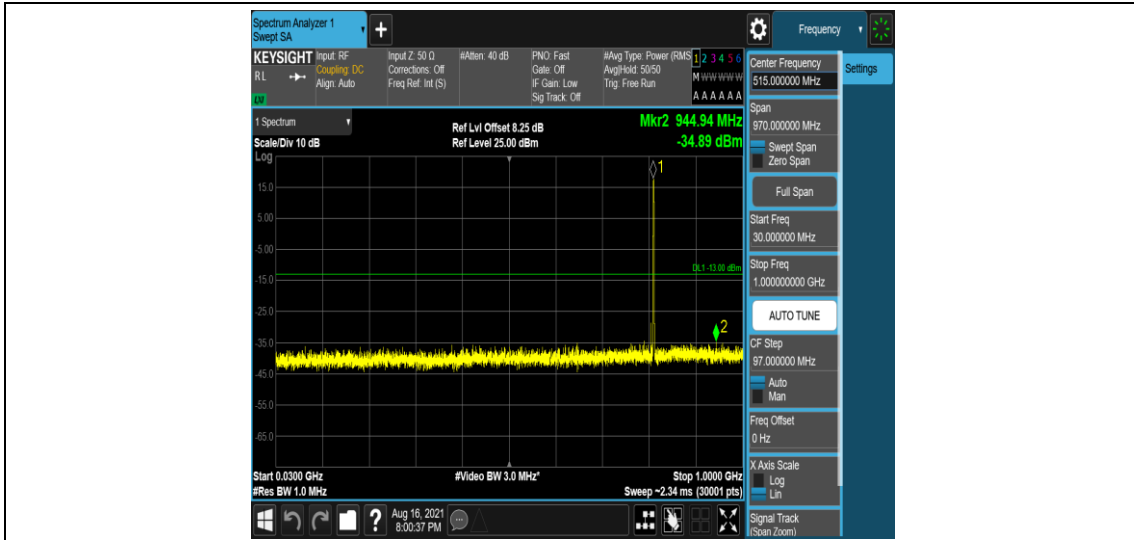
Band26-10MHz-QPSK-26740-1-0-Low-12000-26500--52.65-PASS



Band26-10MHz-16QAM-26740-1-0-Low-0.009-0.15--52.51-PASS



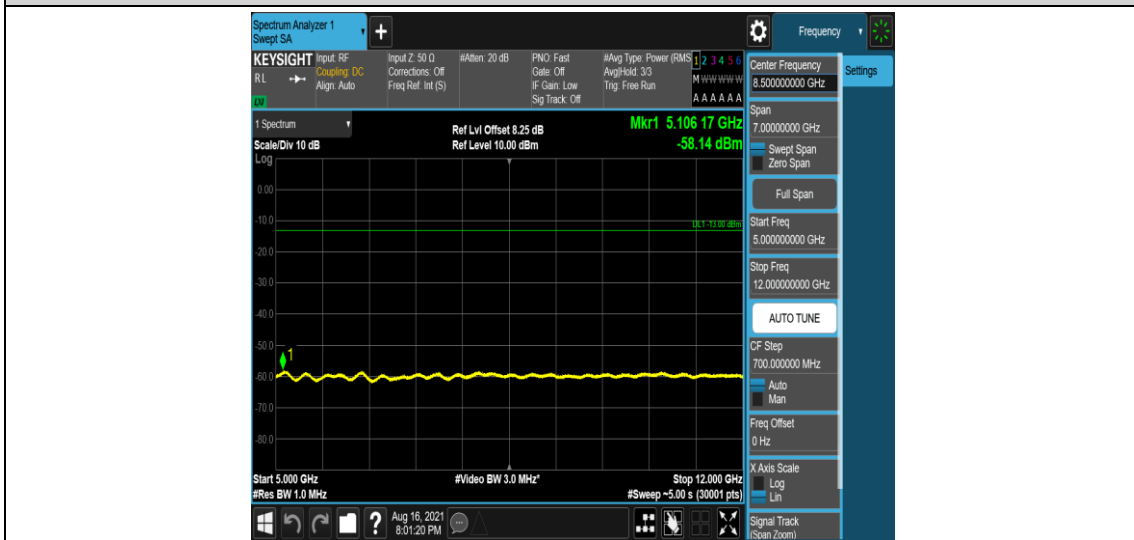
Band26-10MHz-16QAM-26740-1-0-Low-0.15-30--51.1-PASS



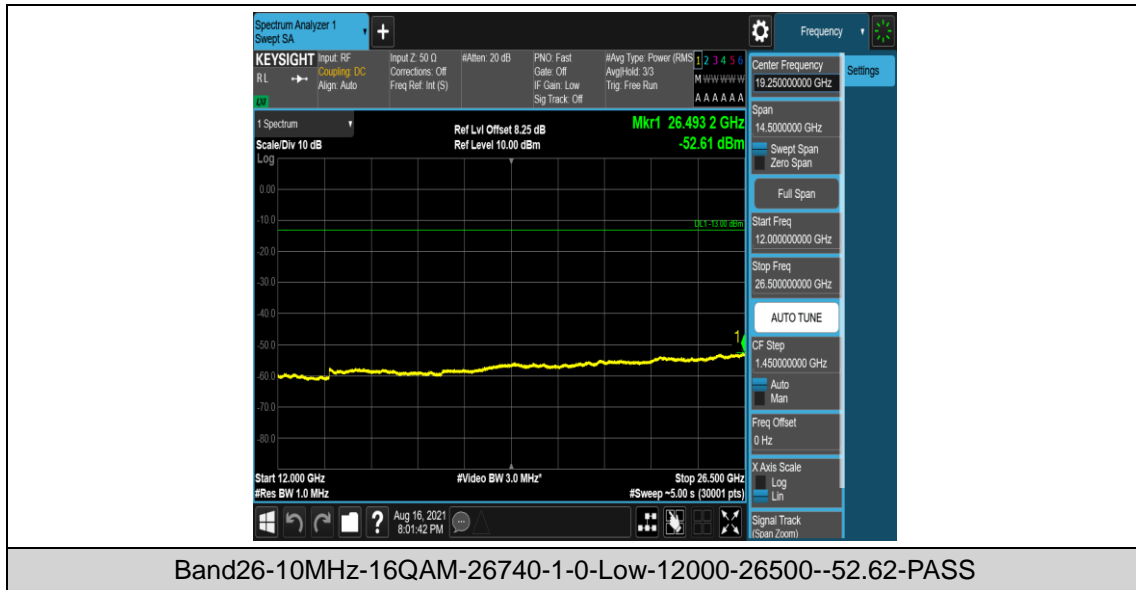
Band26-10MHz-16QAM-26740-1-0-Low-30-1000--34.89-PASS



Band26-10MHz-16QAM-26740-1-0-Low-1000-5000--36.92-PASS



Band26-10MHz-16QAM-26740-1-0-Low-5000-12000--58.14-PASS



## Appendix F: Frequency Stability for M1

### 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	-1.72	-0.002111	± 2.5	PASS
		VN	TN	2.18	0.002676	± 2.5	PASS
		VH	TN	-1.35	-0.001657	± 2.5	PASS
	MCH	VL	TN	4.55	0.005556	± 2.5	PASS
		VN	TN	0.68	0.000830	± 2.5	PASS
		VH	TN	3.17	0.003871	± 2.5	PASS
	HCH	VL	TN	1.69	0.002053	± 2.5	PASS
		VN	TN	3.78	0.004591	± 2.5	PASS
		VH	TN	3.98	0.004834	± 2.5	PASS
16QAM	LCH	VL	TN	-0.25	-0.000307	± 2.5	PASS
		VN	TN	1.23	0.001510	± 2.5	PASS
		VH	TN	0.93	0.001142	± 2.5	PASS
	MCH	VL	TN	1.55	0.001893	± 2.5	PASS
		VN	TN	3.58	0.004371	± 2.5	PASS
		VH	TN	-2	-0.002442	± 2.5	PASS
	HCH	VL	TN	4.84	0.005879	± 2.5	PASS
		VN	TN	0.55	0.000668	± 2.5	PASS
		VH	TN	0.34	0.000413	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.13	-0.000160	± 2.5	PASS
		VN	-20	-0.11	-0.000135	± 2.5	PASS
		VN	-10	2	0.002455	± 2.5	PASS
		VN	0	1.83	0.002246	± 2.5	PASS
		VN	10	4.52	0.005548	± 2.5	PASS
		VN	20	3.95	0.004848	± 2.5	PASS
		VN	30	-1.78	-0.002185	± 2.5	PASS
		VN	40	4.83	0.005929	± 2.5	PASS
		VN	50	-1.33	-0.001633	± 2.5	PASS
	MCH	VN	-30	0.04	0.000049	± 2.5	PASS

		VN	-20	-1.04	-0.001270	± 2.5	PASS
		VN	-10	-1.75	-0.002137	± 2.5	PASS
		VN	0	0.29	0.000354	± 2.5	PASS
		VN	10	-1.45	-0.001770	± 2.5	PASS
		VN	20	3.43	0.004188	± 2.5	PASS
		VN	30	2.34	0.002857	± 2.5	PASS
		VN	40	4.7	0.005739	± 2.5	PASS
		VN	50	-0.37	-0.000452	± 2.5	PASS
	HCH	VN	-30	4.55	0.005527	± 2.5	PASS
		VN	-20	-1.51	-0.001834	± 2.5	PASS
		VN	-10	4.49	0.005454	± 2.5	PASS
		VN	0	4.49	0.005454	± 2.5	PASS
		VN	10	3.74	0.004543	± 2.5	PASS
		VN	20	1.94	0.002356	± 2.5	PASS
		VN	30	1.6	0.001943	± 2.5	PASS
		VN	40	0.17	0.000206	± 2.5	PASS
		VN	50	4.33	0.005259	± 2.5	PASS
		16QAM	LCH	VN	-30	4.4	0.005401
VN	-20			4.3	0.005278	± 2.5	PASS
VN	-10			4.53	0.005560	± 2.5	PASS
VN	0			0.76	0.000933	± 2.5	PASS
VN	10			-0.93	-0.001142	± 2.5	PASS
VN	20			-1.2	-0.001473	± 2.5	PASS
VN	30			-1.84	-0.002259	± 2.5	PASS
VN	40			2.23	0.002737	± 2.5	PASS
VN	50			2.6	0.003191	± 2.5	PASS
MCH	VN		-30	3.03	0.003700	± 2.5	PASS
	VN		-20	4.78	0.005836	± 2.5	PASS
	VN		-10	-0.38	-0.000464	± 2.5	PASS
	VN		0	2.69	0.003284	± 2.5	PASS
	VN		10	2.7	0.003297	± 2.5	PASS
	VN		20	-1.15	-0.001404	± 2.5	PASS
	VN		30	2.89	0.003529	± 2.5	PASS
	VN		40	1.41	0.001722	± 2.5	PASS
	VN		50	2.33	0.002845	± 2.5	PASS
HCH	VN		-30	-1.77	-0.002150	± 2.5	PASS
	VN		-20	-0.08	-0.000097	± 2.5	PASS
	VN		-10	0.33	0.000401	± 2.5	PASS
	VN		0	1.37	0.001664	± 2.5	PASS
	VN		10	-0.71	-0.000862	± 2.5	PASS
	VN		20	2.59	0.003146	± 2.5	PASS

		VN	30	4.32	0.005247	± 2.5	PASS
		VN	40	3.82	0.004640	± 2.5	PASS
		VN	50	-0.32	-0.000389	± 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	-1.51	-0.001852	± 2.5	PASS
		VN	TN	-1.08	-0.001324	± 2.5	PASS
		VH	TN	-0.78	-0.000956	± 2.5	PASS
	MCH	VL	TN	1.95	0.002381	± 2.5	PASS
		VN	TN	0.31	0.000379	± 2.5	PASS
		VH	TN	2.84	0.003468	± 2.5	PASS
	HCH	VL	TN	0.94	0.001143	± 2.5	PASS
		VN	TN	2.44	0.002967	± 2.5	PASS
		VH	TN	-0.75	-0.000912	± 2.5	PASS
16QAM	LCH	VL	TN	3.86	0.004733	± 2.5	PASS
		VN	TN	0.8	0.000981	± 2.5	PASS
		VH	TN	-0.23	-0.000282	± 2.5	PASS
	MCH	VL	TN	3.13	0.003822	± 2.5	PASS
		VN	TN	3.77	0.004603	± 2.5	PASS
		VH	TN	4.85	0.005922	± 2.5	PASS
	HCH	VL	TN	4.98	0.006055	± 2.5	PASS
		VN	TN	2.71	0.003295	± 2.5	PASS
		VH	TN	1.63	0.001982	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.66	0.004488	± 2.5	PASS
		VN	-20	3.37	0.004132	± 2.5	PASS
		VN	-10	1.28	0.001570	± 2.5	PASS
		VN	0	2.13	0.002612	± 2.5	PASS
		VN	10	0.17	0.000208	± 2.5	PASS
		VN	20	-1.01	-0.001239	± 2.5	PASS
		VN	30	-1.93	-0.002367	± 2.5	PASS
		VN	40	-0.68	-0.000834	± 2.5	PASS
		VN	50	-1.67	-0.002048	± 2.5	PASS
	MCH	VN	-30	1.16	0.001416	± 2.5	PASS
		VN	-20	0.32	0.000391	± 2.5	PASS



		VN	-10	4.84	0.005910	± 2.5	PASS		
		VN	0	3.12	0.003810	± 2.5	PASS		
		VN	10	-1.57	-0.001917	± 2.5	PASS		
		VN	20	-0.42	-0.000513	± 2.5	PASS		
		VN	30	3.71	0.004530	± 2.5	PASS		
		VN	40	1.29	0.001575	± 2.5	PASS		
		VN	50	2.32	0.002833	± 2.5	PASS		
	HCH	VN	-30	4.09	0.004973	± 2.5	PASS		
		VN	-20	0.14	0.000170	± 2.5	PASS		
		VN	-10	2.46	0.002991	± 2.5	PASS		
		VN	0	0.02	0.000024	± 2.5	PASS		
		VN	10	3.76	0.004571	± 2.5	PASS		
		VN	20	1.88	0.002286	± 2.5	PASS		
		VN	30	2.7	0.003283	± 2.5	PASS		
		VN	40	-1.44	-0.001751	± 2.5	PASS		
		VN	50	4.06	0.004936	± 2.5	PASS		
		16QAM	LCH	VN	-30	3.88	0.004758	± 2.5	PASS
				VN	-20	-1.23	-0.001508	± 2.5	PASS
VN	-10			-1.21	-0.001484	± 2.5	PASS		
VN	0			4.93	0.006045	± 2.5	PASS		
VN	10			-1.86	-0.002281	± 2.5	PASS		
VN	20			3.11	0.003814	± 2.5	PASS		
VN	30			2.22	0.002722	± 2.5	PASS		
VN	40			0.41	0.000503	± 2.5	PASS		
VN	50			0.52	0.000638	± 2.5	PASS		
MCH	VN		-30	2.7	0.003297	± 2.5	PASS		
	VN		-20	0.54	0.000659	± 2.5	PASS		
	VN		-10	2.77	0.003382	± 2.5	PASS		
	VN		0	1.56	0.001905	± 2.5	PASS		
	VN		10	3.16	0.003858	± 2.5	PASS		
	VN		20	1.61	0.001966	± 2.5	PASS		
	VN		30	-0.98	-0.001197	± 2.5	PASS		
	VN		40	-1.01	-0.001233	± 2.5	PASS		
	VN		50	4.58	0.005592	± 2.5	PASS		
HCH	VN		-30	3.02	0.003672	± 2.5	PASS		
	VN		-20	3.74	0.004547	± 2.5	PASS		
	VN		-10	4.03	0.004900	± 2.5	PASS		
	VN		0	-0.04	-0.000049	± 2.5	PASS		
	VN		10	0.86	0.001046	± 2.5	PASS		
	VN		20	2.65	0.003222	± 2.5	PASS		
	VN		30	0.84	0.001021	± 2.5	PASS		

		VN	40	-1.31	-0.001593	± 2.5	PASS
		VN	50	1.57	0.001909	± 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	3.23	0.003956	± 2.5	PASS
		VN	TN	1.91	0.002339	± 2.5	PASS
		VH	TN	3.71	0.004544	± 2.5	PASS
	MCH	VL	TN	-0.13	-0.000159	± 2.5	PASS
		VN	TN	1.88	0.002295	± 2.5	PASS
		VH	TN	-1.32	-0.001612	± 2.5	PASS
	HCH	VL	TN	4.02	0.004893	± 2.5	PASS
		VN	TN	1.78	0.002167	± 2.5	PASS
		VH	TN	1.3	0.001582	± 2.5	PASS
16QAM	LCH	VL	TN	-1.15	-0.001408	± 2.5	PASS
		VN	TN	-1.12	-0.001372	± 2.5	PASS
		VH	TN	4.62	0.005658	± 2.5	PASS
	MCH	VL	TN	4.16	0.005079	± 2.5	PASS
		VN	TN	-1.99	-0.002430	± 2.5	PASS
		VH	TN	4.19	0.005116	± 2.5	PASS
	HCH	VL	TN	2.5	0.003043	± 2.5	PASS
		VN	TN	1.81	0.002203	± 2.5	PASS
		VH	TN	2.73	0.003323	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.94	0.003601	± 2.5	PASS
		VN	-20	2.52	0.003086	± 2.5	PASS
		VN	-10	-1.65	-0.002021	± 2.5	PASS
		VN	0	0.07	0.000086	± 2.5	PASS
		VN	10	-1.01	-0.001237	± 2.5	PASS
		VN	20	2.21	0.002707	± 2.5	PASS
		VN	30	1.61	0.001972	± 2.5	PASS
		VN	40	4.34	0.005315	± 2.5	PASS
		VN	50	-1.37	-0.001678	± 2.5	PASS
	MCH	VN	-30	4.92	0.006007	± 2.5	PASS
		VN	-20	2.85	0.003480	± 2.5	PASS
		VN	-10	3.49	0.004261	± 2.5	PASS

		VN	0	-0.9	-0.001099	± 2.5	PASS		
		VN	10	1.21	0.001477	± 2.5	PASS		
		VN	20	-1.64	-0.002002	± 2.5	PASS		
		VN	30	0.73	0.000891	± 2.5	PASS		
		VN	40	0.03	0.000037	± 2.5	PASS		
		VN	50	2.8	0.003419	± 2.5	PASS		
	HCH	VN	-30	3.54	0.004309	± 2.5	PASS		
		VN	-20	3.46	0.004212	± 2.5	PASS		
		VN	-10	4.7	0.005721	± 2.5	PASS		
		VN	0	3.5	0.004260	± 2.5	PASS		
		VN	10	2.92	0.003554	± 2.5	PASS		
		VN	20	2.08	0.002532	± 2.5	PASS		
		VN	30	3.93	0.004784	± 2.5	PASS		
		VN	40	-0.41	-0.000499	± 2.5	PASS		
		VN	50	4.68	0.005697	± 2.5	PASS		
		16QAM	LCH	VN	-30	-1.82	-0.002229	± 2.5	PASS
				VN	-20	0.14	0.000171	± 2.5	PASS
				VN	-10	0.82	0.001004	± 2.5	PASS
VN	0			-0.26	-0.000318	± 2.5	PASS		
VN	10			-1.55	-0.001898	± 2.5	PASS		
VN	20			2.71	0.003319	± 2.5	PASS		
VN	30			-1.35	-0.001653	± 2.5	PASS		
VN	40			2.52	0.003086	± 2.5	PASS		
VN	50			-1.34	-0.001641	± 2.5	PASS		
MCH	VN		-30	-0.75	-0.000916	± 2.5	PASS		
	VN		-20	2.75	0.003358	± 2.5	PASS		
	VN		-10	4.21	0.005140	± 2.5	PASS		
	VN		0	4.44	0.005421	± 2.5	PASS		
	VN		10	1.8	0.002198	± 2.5	PASS		
	VN		20	-1.14	-0.001392	± 2.5	PASS		
	VN		30	2.8	0.003419	± 2.5	PASS		
	VN		40	0.91	0.001111	± 2.5	PASS		
	VN		50	1.13	0.001380	± 2.5	PASS		
HCH	VN	-30	3.51	0.004273	± 2.5	PASS			
	VN	-20	-0.35	-0.000426	± 2.5	PASS			
	VN	-10	-1.5	-0.001826	± 2.5	PASS			
	VN	0	1.4	0.001704	± 2.5	PASS			
	VN	10	3.78	0.004601	± 2.5	PASS			
	VN	20	1.51	0.001838	± 2.5	PASS			
	VN	30	-1.19	-0.001449	± 2.5	PASS			
	VN	40	-1.18	-0.001436	± 2.5	PASS			

		VN	50	-0.74	-0.000901	± 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	MCH	VL	TN	0.29	0.000354	± 2.5	PASS
		VN	TN	0.23	0.000281	± 2.5	PASS
		VH	TN	0.26	0.000317	± 2.5	PASS
16QAM	MCH	VL	TN	-1.95	-0.002381	± 2.5	PASS
		VN	TN	2.2	0.002686	± 2.5	PASS
		VH	TN	2.45	0.002991	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VN	-30	-1.9	-0.002320	± 2.5	PASS
		VN	-20	4.3	0.005250	± 2.5	PASS
		VN	-10	-0.44	-0.000537	± 2.5	PASS
		VN	0	-1.16	-0.001416	± 2.5	PASS
		VN	10	4.2	0.005128	± 2.5	PASS
		VN	20	-1.22	-0.001490	± 2.5	PASS
		VN	30	3.89	0.004750	± 2.5	PASS
		VN	40	3.71	0.004530	± 2.5	PASS
		VN	50	4.38	0.005348	± 2.5	PASS
16QAM	MCH	VN	-30	3.88	0.004737	± 2.5	PASS
		VN	-20	-0.55	-0.000672	± 2.5	PASS
		VN	-10	0.24	0.000293	± 2.5	PASS
		VN	0	-0.85	-0.001038	± 2.5	PASS
		VN	10	4.5	0.005495	± 2.5	PASS
		VN	20	1.91	0.002332	± 2.5	PASS
		VN	30	2.81	0.003431	± 2.5	PASS
		VN	40	1.82	0.002222	± 2.5	PASS
		VN	50	3.19	0.003895	± 2.5	PASS