



Band66\_10MHz\_16QAM\_132322\_1RB#0



Band66\_10MHz\_16QAM\_132322\_1RB#0



Band66\_10MHz\_16QAM\_132322\_1RB#0



Band66\_10MHz\_16QAM\_132322\_1RB#0



Band66\_10MHz\_16QAM\_132322\_1RB#0



Band66\_10MHz\_16QAM\_132322\_1RB#0



Band66\_10MHz\_16QAM\_132622\_1RB#0



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Band66\_10MHz\_16QAM\_132622\_1RB#0



Band66\_10MHz\_16QAM\_132622\_1RB#0



Band66\_15MHz\_QPSK\_132047\_1RB#0



Band66\_15MHz\_QPSK\_132047\_1RB#0



Band66\_15MHz\_QPSK\_132047\_1RB#0





Band66\_15MHz\_QPSK\_132047\_1RB#0



Band66\_15MHz\_QPSK\_132047\_1RB#0



Band66\_15MHz\_QPSK\_132047\_1RB#0



Band66\_15MHz\_QPSK\_132322\_1RB#0



Band66\_15MHz\_QPSK\_132322\_1RB#0



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Band66\_15MHz\_QPSK\_132322\_1RB#0



Band66\_15MHz\_QPSK\_132322\_1RB#0





Band66\_15MHz\_QPSK\_132597\_1RB#0



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Band66\_15MHz\_16QAM\_132047\_1RB#0



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Band66\_15MHz\_16QAM\_132322\_1RB#0



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Band66\_15MHz\_16QAM\_132597\_1RB#0



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Band66\_20MHz\_QPSK\_132072\_1RB#0



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Band66\_20MHz\_QPSK\_132322\_1RB#0



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Band66\_20MHz\_QPSK\_132322\_1RB#0



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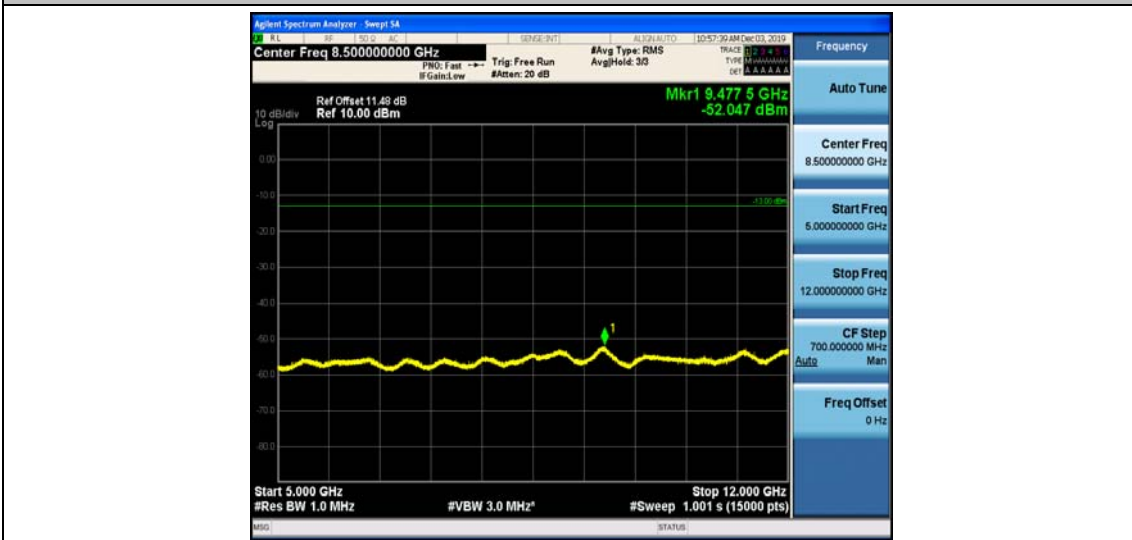
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Band66\_20MHz\_16QAM\_132072\_1RB#0



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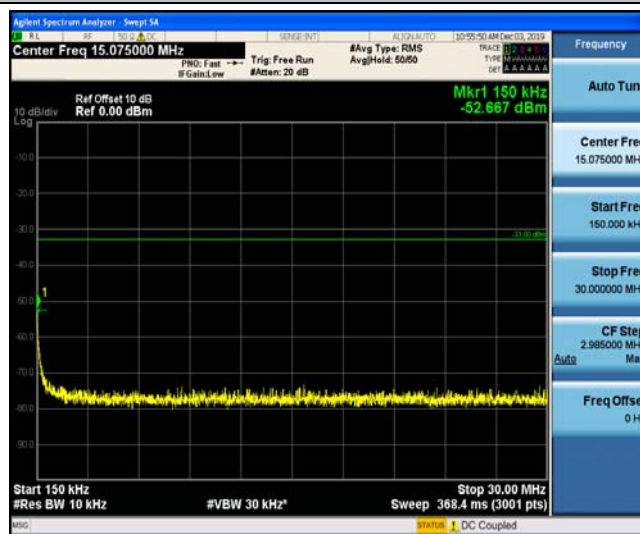
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Band66\_20MHz\_16QAM\_132322\_1RB#0



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Band66\_20MHz\_16QAM\_132322\_1RB#0



Band66\_20MHz\_16QAM\_132322\_1RB#0



Band66\_20MHz\_16QAM\_132322\_1RB#0



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Band66\_20MHz\_16QAM\_132572\_1RB#0



Band66\_20MHz\_16QAM\_132572\_1RB#0



Band66\_20MHz\_16QAM\_132572\_1RB#0





## 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	1.31	0.000766	± 2.5	PASS
		VN	TN	1.19	0.000696	± 2.5	PASS
		VH	TN	1.97	0.001152	± 2.5	PASS
	MCH	VL	TN	0.05	0.000029	± 2.5	PASS
		VN	TN	4.02	0.002304	± 2.5	PASS
		VH	TN	0.43	0.000246	± 2.5	PASS
	HCH	VL	TN	2.76	0.001551	± 2.5	PASS
		VN	TN	0.93	0.000523	± 2.5	PASS
		VH	TN	-1.8	-0.001012	± 2.5	PASS
16QAM	LCH	VL	TN	2.05	0.001198	± 2.5	PASS
		VN	TN	-1.89	-0.001105	± 2.5	PASS
		VH	TN	2.37	0.001385	± 2.5	PASS
	MCH	VL	TN	-0.76	-0.000436	± 2.5	PASS
		VN	TN	3.45	0.001977	± 2.5	PASS
		VH	TN	4.59	0.002630	± 2.5	PASS
	HCH	VL	TN	-1.41	-0.000792	± 2.5	PASS
		VN	TN	2.36	0.001326	± 2.5	PASS
		VH	TN	2.34	0.001315	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	1.89	0.001105	± 2.5	PASS
		VN	-20	-1.72	-0.001005	± 2.5	PASS
		VN	-10	-0.81	-0.000473	± 2.5	PASS
		VN	0	1.23	0.000719	± 2.5	PASS
		VN	10	2.17	0.001268	± 2.5	PASS
		VN	20	0.62	0.000362	± 2.5	PASS
		VN	30	-0.06	-0.000035	± 2.5	PASS
		VN	40	0.86	0.000503	± 2.5	PASS
	MCH	VN	-30	4.24	0.002430	± 2.5	PASS
		VN	-20	2.41	0.001381	± 2.5	PASS

		VN	-10	3.76	0.002155	± 2.5	PASS	
		VN	0	0.79	0.000453	± 2.5	PASS	
		VN	10	-1.09	-0.000625	± 2.5	PASS	
		VN	20	1.93	0.001106	± 2.5	PASS	
		VN	30	2.14	0.001226	± 2.5	PASS	
		VN	40	3.03	0.001736	± 2.5	PASS	
		VN	50	4.55	0.002607	± 2.5	PASS	
	HCH	VN	-30	1.95	0.001096	± 2.5	PASS	
		VN	-20	1.12	0.000629	± 2.5	PASS	
		VN	-10	-0.37	-0.000208	± 2.5	PASS	
		VN	0	-1.17	-0.000658	± 2.5	PASS	
		VN	10	4.07	0.002287	± 2.5	PASS	
		VN	20	2.24	0.001259	± 2.5	PASS	
		VN	30	-1.24	-0.000697	± 2.5	PASS	
	16QAM	LCH	VN	40	3.41	0.001916	± 2.5	PASS
			VN	50	-1.32	-0.000742	± 2.5	PASS
			VN	-30	-1.94	-0.001134	± 2.5	PASS
			VN	-20	4.02	0.002350	± 2.5	PASS
VN			-10	-1.68	-0.000982	± 2.5	PASS	
VN			0	3.63	0.002122	± 2.5	PASS	
VN			10	4.23	0.002473	± 2.5	PASS	
VN			20	-1.12	-0.000655	± 2.5	PASS	
VN			30	1.96	0.001146	± 2.5	PASS	
MCH		VN	40	4.61	0.002695	± 2.5	PASS	
		VN	50	0.99	0.000579	± 2.5	PASS	
		VN	-30	3.52	0.002017	± 2.5	PASS	
		VN	-20	-0.12	-0.000069	± 2.5	PASS	
		VN	-10	-1.24	-0.000711	± 2.5	PASS	
		VN	0	0.85	0.000487	± 2.5	PASS	
		VN	10	0.41	0.000235	± 2.5	PASS	
		VN	20	2.12	0.001215	± 2.5	PASS	
		VN	30	1.75	0.001003	± 2.5	PASS	
HCH	VN	40	0.23	0.000132	± 2.5	PASS		
	VN	50	4.07	0.002332	± 2.5	PASS		
	VN	-30	3.6	0.002023	± 2.5	PASS		
	VN	-20	-0.44	-0.000247	± 2.5	PASS		
	VN	-10	3.67	0.002063	± 2.5	PASS		
	VN	0	-1.5	-0.000843	± 2.5	PASS		
	VN	10	0.18	0.000101	± 2.5	PASS		
VN	20	3.22	0.001810	± 2.5	PASS			
VN	30	0.12	0.000067	± 2.5	PASS			

		VN	40	0.24	0.000135	± 2.5	PASS
		VN	50	4.53	0.002546	± 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	2.26	0.001320	± 2.5	PASS
		VN	TN	-1.06	-0.000619	± 2.5	PASS
		VH	TN	3.28	0.001916	± 2.5	PASS
	MCH	VL	TN	-1.06	-0.000607	± 2.5	PASS
		VN	TN	3.77	0.002160	± 2.5	PASS
		VH	TN	2.93	0.001679	± 2.5	PASS
	HCH	VL	TN	4.97	0.002793	± 2.5	PASS
		VN	TN	-1.04	-0.000584	± 2.5	PASS
		VH	TN	3.02	0.001697	± 2.5	PASS
16QAM	LCH	VL	TN	3.13	0.001829	± 2.5	PASS
		VN	TN	-0.68	-0.000397	± 2.5	PASS
		VH	TN	-1.84	-0.001075	± 2.5	PASS
	MCH	VL	TN	0.26	0.000149	± 2.5	PASS
		VN	TN	-1.8	-0.001032	± 2.5	PASS
		VH	TN	2.98	0.001708	± 2.5	PASS
	HCH	VL	TN	3.55	0.001995	± 2.5	PASS
		VN	TN	3.53	0.001984	± 2.5	PASS
		VH	TN	-1.33	-0.000747	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	3.94	0.002302	± 2.5	PASS
		VN	-20	-0.21	-0.000123	± 2.5	PASS
		VN	-10	2.91	0.001700	± 2.5	PASS
		VN	0	-1.36	-0.000795	± 2.5	PASS
		VN	10	3.27	0.001911	± 2.5	PASS
		VN	20	3.91	0.002285	± 2.5	PASS
		VN	30	4.03	0.002355	± 2.5	PASS
		VN	40	-0.73	-0.000427	± 2.5	PASS
		VN	50	-0.77	-0.000450	± 2.5	PASS
	MCH	VN	-30	-0.94	-0.000539	± 2.5	PASS
		VN	-20	-1.68	-0.000963	± 2.5	PASS
		VN	-10	3.57	0.002046	± 2.5	PASS

		VN	0	0.06	0.000034	± 2.5	PASS		
		VN	10	4.66	0.002670	± 2.5	PASS		
		VN	20	2.8	0.001605	± 2.5	PASS		
		VN	30	-1.86	-0.001066	± 2.5	PASS		
		VN	40	2.16	0.001238	± 2.5	PASS		
		VN	50	-1.04	-0.000596	± 2.5	PASS		
	HCH	VN	-30	4.01	0.002254	± 2.5	PASS		
		VN	-20	0.65	0.000365	± 2.5	PASS		
		VN	-10	4.61	0.002591	± 2.5	PASS		
		VN	0	0.03	0.000017	± 2.5	PASS		
		VN	10	3.87	0.002175	± 2.5	PASS		
		VN	20	2.18	0.001225	± 2.5	PASS		
		VN	30	1.62	0.000910	± 2.5	PASS		
		VN	40	3.87	0.002175	± 2.5	PASS		
		VN	50	4.96	0.002788	± 2.5	PASS		
		QPSK	LCH	VN	-30	2.13	0.001245	± 2.5	PASS
				VN	-20	0.64	0.000374	± 2.5	PASS
				VN	-10	1.72	0.001005	± 2.5	PASS
VN	0			2.82	0.001648	± 2.5	PASS		
VN	10			3.13	0.001829	± 2.5	PASS		
VN	20			-0.39	-0.000228	± 2.5	PASS		
VN	30			2.44	0.001426	± 2.5	PASS		
VN	40			3.19	0.001864	± 2.5	PASS		
VN	50			-0.74	-0.000432	± 2.5	PASS		
MCH	VN			-30	2.46	0.001410	± 2.5	PASS	
	VN		-20	-0.52	-0.000298	± 2.5	PASS		
	VN		-10	0.83	0.000476	± 2.5	PASS		
	VN		0	4.35	0.002493	± 2.5	PASS		
	VN		10	2.62	0.001501	± 2.5	PASS		
	VN		20	3.86	0.002212	± 2.5	PASS		
	VN		30	-0.95	-0.000544	± 2.5	PASS		
	VN		40	2.91	0.001668	± 2.5	PASS		
	VN		50	0.1	0.000057	± 2.5	PASS		
	HCH		VN	-30	-1.08	-0.000607	± 2.5	PASS	
VN			-20	0.21	0.000118	± 2.5	PASS		
VN			-10	3.21	0.001804	± 2.5	PASS		
VN			0	1.28	0.000719	± 2.5	PASS		
VN			10	4.38	0.002462	± 2.5	PASS		
VN			20	-1.41	-0.000792	± 2.5	PASS		
VN			30	0.9	0.000506	± 2.5	PASS		
VN			40	-0.31	-0.000174	± 2.5	PASS		



		VN	50	1.13	0.000635	± 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	3.52	0.002055	± 2.5	PASS
		VN	TN	4.29	0.002505	± 2.5	PASS
		VH	TN	0.95	0.000555	± 2.5	PASS
	MCH	VL	TN	1.73	0.000991	± 2.5	PASS
		VN	TN	1.62	0.000928	± 2.5	PASS
		VH	TN	-1.02	-0.000585	± 2.5	PASS
	HCH	VL	TN	0.2	0.000112	± 2.5	PASS
		VN	TN	0.72	0.000405	± 2.5	PASS
		VH	TN	2.59	0.001456	± 2.5	PASS
16QAM	LCH	VL	TN	0.85	0.000496	± 2.5	PASS
		VN	TN	0.78	0.000455	± 2.5	PASS
		VH	TN	-1.77	-0.001034	± 2.5	PASS
	MCH	VL	TN	2.92	0.001673	± 2.5	PASS
		VN	TN	4.8	0.002751	± 2.5	PASS
		VH	TN	4.89	0.002802	± 2.5	PASS
	HCH	VL	TN	0.33	0.000186	± 2.5	PASS
		VN	TN	4.49	0.002525	± 2.5	PASS
		VH	TN	-1.83	-0.001029	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.23	0.000134	± 2.5	PASS
		VN	-20	3.79	0.002213	± 2.5	PASS
		VN	-10	0.2	0.000117	± 2.5	PASS
		VN	0	2.58	0.001507	± 2.5	PASS
		VN	10	4.5	0.002628	± 2.5	PASS
		VN	20	2.33	0.001361	± 2.5	PASS
		VN	30	-1.65	-0.000964	± 2.5	PASS
		VN	40	4.7	0.002745	± 2.5	PASS
		VN	50	4.59	0.002680	± 2.5	PASS
	MCH	VN	-30	0.7	0.000401	± 2.5	PASS
		VN	-20	1.17	0.000670	± 2.5	PASS
		VN	-10	3.98	0.002281	± 2.5	PASS
		VN	0	-1.52	-0.000871	± 2.5	PASS

		VN	10	1.99	0.001140	± 2.5	PASS
		VN	20	-0.49	-0.000281	± 2.5	PASS
		VN	30	-0.45	-0.000258	± 2.5	PASS
		VN	40	-0.99	-0.000567	± 2.5	PASS
		VN	50	-0.77	-0.000441	± 2.5	PASS
	HCH	VN	-30	0.39	0.000219	± 2.5	PASS
		VN	-20	4.17	0.002345	± 2.5	PASS
		VN	-10	0.35	0.000197	± 2.5	PASS
		VN	0	4.85	0.002727	± 2.5	PASS
		VN	10	0.22	0.000124	± 2.5	PASS
		VN	20	3.2	0.001799	± 2.5	PASS
		VN	30	2.1	0.001181	± 2.5	PASS
		VN	40	0.25	0.000141	± 2.5	PASS
		VN	50	-0.41	-0.000231	± 2.5	PASS
		16QAM	LCH	VN	-30	1.16	0.000677
VN	-20			1.36	0.000794	± 2.5	PASS
VN	-10			4.44	0.002593	± 2.5	PASS
VN	0			1.95	0.001139	± 2.5	PASS
VN	10			-1.54	-0.000899	± 2.5	PASS
VN	20			2.85	0.001664	± 2.5	PASS
VN	30			3.97	0.002318	± 2.5	PASS
VN	40			1.59	0.000928	± 2.5	PASS
VN	50			2.98	0.001740	± 2.5	PASS
MCH	VN		-30	1.02	0.000585	± 2.5	PASS
	VN		-20	4.88	0.002797	± 2.5	PASS
	VN		-10	-1.32	-0.000756	± 2.5	PASS
	VN		0	-1.26	-0.000722	± 2.5	PASS
	VN		10	-1.99	-0.001140	± 2.5	PASS
	VN		20	-0.33	-0.000189	± 2.5	PASS
	VN		30	1.33	0.000762	± 2.5	PASS
	VN		40	2.58	0.001479	± 2.5	PASS
	VN		50	0.64	0.000367	± 2.5	PASS
HCH	VN		-30	0.2	0.000112	± 2.5	PASS
	VN		-20	3.98	0.002238	± 2.5	PASS
	VN		-10	4.33	0.002435	± 2.5	PASS
	VN		0	0.59	0.000332	± 2.5	PASS
	VN		10	0.92	0.000517	± 2.5	PASS
	VN		20	0.41	0.000231	± 2.5	PASS
	VN		30	2.16	0.001215	± 2.5	PASS
	VN		40	0.58	0.000326	± 2.5	PASS
	VN		50	2.55	0.001434	± 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	-1.24	-0.000723	± 2.5	PASS
		VN	TN	4.87	0.002840	± 2.5	PASS
		VH	TN	-0.98	-0.000571	± 2.5	PASS
	MCH	VL	TN	0.92	0.000527	± 2.5	PASS
		VN	TN	-1.99	-0.001140	± 2.5	PASS
		VH	TN	-0.68	-0.000390	± 2.5	PASS
	HCH	VL	TN	3.12	0.001755	± 2.5	PASS
		VN	TN	3	0.001688	± 2.5	PASS
		VH	TN	-1.22	-0.000686	± 2.5	PASS
16QAM	LCH	VL	TN	-1.12	-0.000653	± 2.5	PASS
		VN	TN	2.6	0.001516	± 2.5	PASS
		VH	TN	-0.6	-0.000350	± 2.5	PASS
	MCH	VL	TN	2.94	0.001685	± 2.5	PASS
		VN	TN	2.79	0.001599	± 2.5	PASS
		VH	TN	2.34	0.001341	± 2.5	PASS
	HCH	VL	TN	-1.98	-0.001114	± 2.5	PASS
		VN	TN	0.78	0.000439	± 2.5	PASS
		VH	TN	3.1	0.001744	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	0.42	0.000245	± 2.5	PASS
		VN	-20	0.01	0.000006	± 2.5	PASS
		VN	-10	4.57	0.002665	± 2.5	PASS
		VN	0	-0.26	-0.000152	± 2.5	PASS
		VN	10	3.52	0.002052	± 2.5	PASS
		VN	20	4.35	0.002536	± 2.5	PASS
		VN	30	2.95	0.001720	± 2.5	PASS
		VN	40	-1.83	-0.001067	± 2.5	PASS
		VN	50	1.84	0.001073	± 2.5	PASS
	MCH	VN	-30	1.65	0.000946	± 2.5	PASS
		VN	-20	1.51	0.000865	± 2.5	PASS
		VN	-10	1.06	0.000607	± 2.5	PASS
		VN	0	2.52	0.001444	± 2.5	PASS
		VN	10	0.2	0.000115	± 2.5	PASS
		VN	20	-1.76	-0.001009	± 2.5	PASS

		VN	30	3.68	0.002109	± 2.5	PASS
		VN	40	-0.58	-0.000332	± 2.5	PASS
		VN	50	0.69	0.000395	± 2.5	PASS
	HCH	VN	-30	-0.1	-0.000056	± 2.5	PASS
		VN	-20	-0.9	-0.000506	± 2.5	PASS
		VN	-10	4.46	0.002509	± 2.5	PASS
		VN	0	3.1	0.001744	± 2.5	PASS
		VN	10	2.47	0.001390	± 2.5	PASS
		VN	20	0.74	0.000416	± 2.5	PASS
		VN	30	-1.08	-0.000608	± 2.5	PASS
		VN	40	-1.32	-0.000743	± 2.5	PASS
		VN	50	0.17	0.000096	± 2.5	PASS
QPSK	LCH	VN	-30	-1.08	-0.000630	± 2.5	PASS
		VN	-20	3.67	0.002140	± 2.5	PASS
		VN	-10	4.87	0.002840	± 2.5	PASS
		VN	0	1.88	0.001096	± 2.5	PASS
		VN	10	-0.35	-0.000204	± 2.5	PASS
		VN	20	4.95	0.002886	± 2.5	PASS
		VN	30	-0.65	-0.000379	± 2.5	PASS
		VN	40	2.77	0.001615	± 2.5	PASS
		VN	50	-1.64	-0.000956	± 2.5	PASS
	MCH	VN	-30	4.78	0.002739	± 2.5	PASS
		VN	-20	4.91	0.002814	± 2.5	PASS
		VN	-10	0.74	0.000424	± 2.5	PASS
		VN	0	-1.5	-0.000860	± 2.5	PASS
		VN	10	-0.07	-0.000040	± 2.5	PASS
		VN	20	1.88	0.001077	± 2.5	PASS
		VN	30	4.65	0.002665	± 2.5	PASS
		VN	40	3.55	0.002034	± 2.5	PASS
		VN	50	2.44	0.001398	± 2.5	PASS
	HCH	VN	-30	-0.93	-0.000523	± 2.5	PASS
		VN	-20	-0.99	-0.000557	± 2.5	PASS
		VN	-10	1.1	0.000619	± 2.5	PASS
		VN	0	-0.25	-0.000141	± 2.5	PASS
		VN	10	3.47	0.001952	± 2.5	PASS
		VN	20	1.5	0.000844	± 2.5	PASS
		VN	30	-0.04	-0.000023	± 2.5	PASS
		VN	40	-1.97	-0.001108	± 2.5	PASS
	VN	50	-1.12	-0.000630	± 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	4.18	0.002434	± 2.5	PASS
		VN	TN	3.77	0.002195	± 2.5	PASS
		VH	TN	2.46	0.001432	± 2.5	PASS
	MCH	VL	TN	1.24	0.000711	± 2.5	PASS
		VN	TN	2.16	0.001238	± 2.5	PASS
		VH	TN	4.06	0.002327	± 2.5	PASS
	HCH	VL	TN	0.48	0.000270	± 2.5	PASS
		VN	TN	2.54	0.001431	± 2.5	PASS
		VH	TN	3.55	0.002000	± 2.5	PASS
16QAM	LCH	VL	TN	4.43	0.002579	± 2.5	PASS
		VN	TN	3.39	0.001974	± 2.5	PASS
		VH	TN	1.13	0.000658	± 2.5	PASS
	MCH	VL	TN	1.53	0.000877	± 2.5	PASS
		VN	TN	0.29	0.000166	± 2.5	PASS
		VH	TN	3.16	0.001811	± 2.5	PASS
	HCH	VL	TN	4.63	0.002608	± 2.5	PASS
		VN	TN	1.26	0.000710	± 2.5	PASS
		VH	TN	2.04	0.001149	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	4.07	0.002370	± 2.5	PASS
		VN	-20	-1.59	-0.000926	± 2.5	PASS
		VN	-10	1.07	0.000623	± 2.5	PASS
		VN	0	-1.6	-0.000932	± 2.5	PASS
		VN	10	-0.6	-0.000349	± 2.5	PASS
		VN	20	-0.98	-0.000571	± 2.5	PASS
		VN	30	3.76	0.002189	± 2.5	PASS
		VN	40	3.14	0.001828	± 2.5	PASS
		VN	50	1.29	0.000751	± 2.5	PASS
	MCH	VN	-30	-0.14	-0.000080	± 2.5	PASS
		VN	-20	0.63	0.000361	± 2.5	PASS
		VN	-10	0.64	0.000367	± 2.5	PASS
		VN	0	0.96	0.000550	± 2.5	PASS
		VN	10	4.08	0.002338	± 2.5	PASS
		VN	20	4.22	0.002418	± 2.5	PASS



		VN	30	3.48	0.001994	± 2.5	PASS
		VN	40	2.02	0.001158	± 2.5	PASS
		VN	50	2.13	0.001221	± 2.5	PASS
	HCH	VN	-30	-1.1	-0.000620	± 2.5	PASS
		VN	-20	-1.72	-0.000969	± 2.5	PASS
		VN	-10	2.19	0.001234	± 2.5	PASS
		VN	0	-1.01	-0.000569	± 2.5	PASS
		VN	10	0.5	0.000282	± 2.5	PASS
		VN	20	1.37	0.000772	± 2.5	PASS
		VN	30	-1.36	-0.000766	± 2.5	PASS
		VN	40	3.75	0.002113	± 2.5	PASS
		VN	50	3.03	0.001707	± 2.5	PASS
		QPSK	LCH	VN	-30	1.48	0.000862
VN	-20			3.88	0.002259	± 2.5	PASS
VN	-10			-0.42	-0.000245	± 2.5	PASS
VN	0			3.48	0.002026	± 2.5	PASS
VN	10			1.22	0.000710	± 2.5	PASS
VN	20			-0.53	-0.000309	± 2.5	PASS
VN	30			1.46	0.000850	± 2.5	PASS
VN	40			3.56	0.002073	± 2.5	PASS
VN	50			4.62	0.002690	± 2.5	PASS
MCH	VN		-30	0.76	0.000436	± 2.5	PASS
	VN		-20	0.02	0.000011	± 2.5	PASS
	VN		-10	-0.57	-0.000327	± 2.5	PASS
	VN		0	1.7	0.000974	± 2.5	PASS
	VN		10	-0.1	-0.000057	± 2.5	PASS
	VN		20	2.04	0.001169	± 2.5	PASS
	VN		30	3.05	0.001748	± 2.5	PASS
	VN		40	-0.04	-0.000023	± 2.5	PASS
	VN		50	-0.9	-0.000516	± 2.5	PASS
HCH	VN		-30	0.65	0.000366	± 2.5	PASS
	VN		-20	2.48	0.001397	± 2.5	PASS
	VN		-10	0.99	0.000558	± 2.5	PASS
	VN		0	4.51	0.002541	± 2.5	PASS
	VN		10	1.41	0.000794	± 2.5	PASS
	VN		20	-1.83	-0.001031	± 2.5	PASS
	VN		30	-1.73	-0.000975	± 2.5	PASS
	VN		40	4.04	0.002276	± 2.5	PASS
	VN		50	-1.26	-0.000710	± 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	0.68	0.000395	± 2.5	PASS
		VN	TN	1.24	0.000721	± 2.5	PASS
		VH	TN	0.92	0.000535	± 2.5	PASS
	MCH	VL	TN	4.21	0.002413	± 2.5	PASS
		VN	TN	4.15	0.002378	± 2.5	PASS
		VH	TN	4.74	0.002716	± 2.5	PASS
	HCH	VL	TN	-1.32	-0.000745	± 2.5	PASS
		VN	TN	3.77	0.002127	± 2.5	PASS
		VH	TN	1.29	0.000728	± 2.5	PASS
16QAM	LCH	VL	TN	2.81	0.001634	± 2.5	PASS
		VN	TN	1.76	0.001023	± 2.5	PASS
		VH	TN	4.77	0.002773	± 2.5	PASS
	MCH	VL	TN	2.5	0.001433	± 2.5	PASS
		VN	TN	1.42	0.000814	± 2.5	PASS
		VH	TN	1.43	0.000819	± 2.5	PASS
	HCH	VL	TN	2.4	0.001354	± 2.5	PASS
		VN	TN	-1.37	-0.000773	± 2.5	PASS
		VH	TN	-1.23	-0.000694	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	2.9	0.001686	± 2.5	PASS
		VN	-20	-0.58	-0.000337	± 2.5	PASS
		VN	-10	3.17	0.001843	± 2.5	PASS
		VN	0	-1.21	-0.000703	± 2.5	PASS
		VN	10	3.06	0.001779	± 2.5	PASS
		VN	20	4.7	0.002733	± 2.5	PASS
		VN	30	3.68	0.002140	± 2.5	PASS
		VN	40	4.05	0.002355	± 2.5	PASS
	MCH	VN	50	0.17	0.000099	± 2.5	PASS
		VN	-30	0.58	0.000332	± 2.5	PASS
		VN	-20	2.97	0.001702	± 2.5	PASS
		VN	-10	-1.06	-0.000607	± 2.5	PASS
		VN	0	4.07	0.002332	± 2.5	PASS
		VN	10	1.92	0.001100	± 2.5	PASS
VN	20	3.05	0.001748	± 2.5	PASS		

		VN	30	0.58	0.000332	± 2.5	PASS
		VN	40	4.97	0.002848	± 2.5	PASS
		VN	50	-1.14	-0.000653	± 2.5	PASS
	HCH	VN	-30	3.29	0.001856	± 2.5	PASS
		VN	-20	2.68	0.001512	± 2.5	PASS
		VN	-10	0.53	0.000299	± 2.5	PASS
		VN	0	-0.09	-0.000051	± 2.5	PASS
		VN	10	0.45	0.000254	± 2.5	PASS
		VN	20	-0.87	-0.000491	± 2.5	PASS
		VN	30	0.74	0.000417	± 2.5	PASS
		VN	40	3.83	0.002161	± 2.5	PASS
		VN	50	4.04	0.002279	± 2.5	PASS
QPSK	LCH	VN	-30	-0.8	-0.000465	± 2.5	PASS
		VN	-20	1.18	0.000686	± 2.5	PASS
		VN	-10	-0.96	-0.000558	± 2.5	PASS
		VN	0	2.33	0.001355	± 2.5	PASS
		VN	10	4.01	0.002331	± 2.5	PASS
		VN	20	1.41	0.000820	± 2.5	PASS
		VN	30	4.12	0.002395	± 2.5	PASS
		VN	40	2.81	0.001634	± 2.5	PASS
		VN	50	1.37	0.000797	± 2.5	PASS
	MCH	VN	-30	-1.72	-0.000986	± 2.5	PASS
		VN	-20	-0.42	-0.000241	± 2.5	PASS
		VN	-10	4.49	0.002573	± 2.5	PASS
		VN	0	4.19	0.002401	± 2.5	PASS
		VN	10	3.42	0.001960	± 2.5	PASS
		VN	20	-0.74	-0.000424	± 2.5	PASS
		VN	30	3.26	0.001868	± 2.5	PASS
		VN	40	1.65	0.000946	± 2.5	PASS
		VN	50	0.65	0.000372	± 2.5	PASS
	HCH	VN	-30	0	0.000000	± 2.5	PASS
		VN	-20	0.2	0.000113	± 2.5	PASS
		VN	-10	0.42	0.000237	± 2.5	PASS
		VN	0	3.9	0.002200	± 2.5	PASS
		VN	10	0.55	0.000310	± 2.5	PASS
		VN	20	-1.58	-0.000891	± 2.5	PASS
		VN	30	2.27	0.001281	± 2.5	PASS
		VN	40	-0.53	-0.000299	± 2.5	PASS
		VN	50	-1.41	-0.000795	± 2.5	PASS