

1. Frequency stability

1.1 Test Result

Test Band: 2_1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	0.7439	-1.3161	-4.0913	0.0004	-0.0007	-0.0021	2.50	PASS
				NV	-0.5150	-1.3733	-1.6594	-0.0003	-0.0007	-0.0009	2.50	PASS
				HV	0.2003	-2.3031	-2.0885	0.0001	-0.0012	-0.0011	2.50	PASS
16QAM	6	0	NT	LV	0.9871	1.9026	-2.9182	0.0005	0.0010	-0.0015	2.50	PASS
				NV	3.0613	1.9026	-3.5477	0.0017	0.0010	-0.0019	2.50	PASS
				HV	1.6451	1.6594	-4.7779	0.0009	0.0009	-0.0025	2.50	PASS

Test Band: 2 1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	-0.3147	-2.2316	-2.6894	-0.0002	-0.0012	-0.0014	2.50	PASS
				-20.00	-0.2432	-2.1315	-3.2187	-0.0001	-0.0011	-0.0017	2.50	PASS
				-10.00	1.1158	-1.3447	-4.3058	0.0006	-0.0007	-0.0023	2.50	PASS
				0.00	2.6178	-0.3433	-1.7023	0.0014	-0.0002	-0.0009	2.50	PASS
				10.00	0.1717	-1.1730	-2.8467	0.0001	-0.0006	-0.0015	2.50	PASS
				20.00	2.2173	0.0715	-2.6608	0.0012	0.0000	-0.0014	2.50	PASS
				30.00	-0.4435	0.1001	-5.2929	-0.0002	0.0001	-0.0028	2.50	PASS
				40.00	0.6008	0.6151	-5.5933	0.0003	0.0003	-0.0029	2.50	PASS
				50.00	2.9898	-0.6151	-5.9080	0.0016	-0.0003	-0.0031	2.50	PASS
16QAM	6	0	NV	-30.00	2.3460	0.0572	-4.6635	0.0013	0.0000	-0.0024	2.50	PASS
				-20.00	2.6035	0.3290	-4.3058	0.0014	0.0002	-0.0023	2.50	PASS
				-10.00	0.1860	0.4578	-5.2071	0.0001	0.0002	-0.0027	2.50	PASS
				0.00	0.6294	-0.2146	-5.0926	0.0003	-0.0001	-0.0027	2.50	PASS
				10.00	-0.3862	-0.2146	-4.6492	-0.0002	-0.0001	-0.0024	2.50	PASS
				20.00	-0.1287	0.1860	-5.0783	-0.0001	0.0001	-0.0027	2.50	PASS
				30.00	1.5306	-0.5865	-3.8338	0.0008	-0.0003	-0.0020	2.50	PASS
				40.00	2.7609	0.8154	-4.9639	0.0015	0.0004	-0.0026	2.50	PASS
				50.00	3.1471	-0.6580	-4.2057	0.0017	-0.0004	-0.0022	2.50	PASS

Test Band: 2 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	2.4319	0.9155	1.3304	0.0013	0.0005	0.0007	2.50	PASS
				NV	1.2875	1.7595	0.3719	0.0007	0.0009	0.0002	2.50	PASS
				HV	1.8024	-0.2003	-0.6580	0.0010	-0.0001	-0.0003	2.50	PASS
16QAM	15	0	NT	LV	-2.0170	1.1015	0.5579	-0.0011	0.0006	0.0003	2.50	PASS
				NV	-1.5306	0.6723	0.5293	-0.0008	0.0004	0.0003	2.50	PASS
				HV	-0.7296	0.9012	2.7037	-0.0004	0.0005	0.0014	2.50	PASS

Test Band: 2 3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	-0.0143	0.2432	-0.8583	0.0000	0.0001	-0.0004	2.50	PASS
				-20.00	1.4591	-1.7738	-0.8869	0.0008	-0.0009	-0.0005	2.50	PASS
				-10.00	1.2588	-1.1444	-1.1015	0.0007	-0.0006	-0.0006	2.50	PASS
				0.00	-0.7725	-0.3433	-1.5593	-0.0004	-0.0002	-0.0008	2.50	PASS
				10.00	-1.3161	1.6451	-0.2432	-0.0007	0.0009	-0.0001	2.50	PASS

				20.00	-0.8869	2.3174	0.8869	-0.0005	0.0012	0.0005	2.50	PASS
				30.00	-1.4591	-1.8311	0.4005	-0.0008	-0.0010	0.0002	2.50	PASS
				40.00	0.9727	-1.1301	2.0027	0.0005	-0.0006	0.0010	2.50	PASS
				50.00	1.2445	-1.9312	-1.4591	0.0007	-0.0010	-0.0008	2.50	PASS
16QAM	15	0	NV	-30.00	-1.0157	2.1029	-0.2575	-0.0005	0.0011	-0.0001	2.50	PASS
				-20.00	-2.2173	2.6464	-0.0572	-0.0012	0.0014	0.0000	2.50	PASS
				-10.00	-1.5450	2.5606	0.5293	-0.0008	0.0014	0.0003	2.50	PASS
				0.00	-1.7166	1.7452	-0.3862	-0.0009	0.0009	-0.0002	2.50	PASS
				10.00	-1.2732	3.0184	0.5579	-0.0007	0.0016	0.0003	2.50	PASS
				20.00	-1.3876	1.6594	0.2003	-0.0007	0.0009	0.0001	2.50	PASS
				30.00	0.1287	1.8740	-0.0143	0.0001	0.0010	0.0000	2.50	PASS
				40.00	1.6594	2.1887	-1.0586	0.0009	0.0012	-0.0006	2.50	PASS
				50.00	1.2588	3.1328	0.7868	0.0007	0.0017	0.0004	2.50	PASS

Test Band: 2 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	3.7336	1.8454	-1.7309	0.0020	0.0010	-0.0009	2.50	PASS
				NV	0.8583	-0.1001	-2.5749	0.0005	-0.0001	-0.0013	2.50	PASS
				HV	0.9298	0.2432	-4.2057	0.0005	0.0001	-0.0022	2.50	PASS
16QAM	25	0	NT	LV	3.8624	-0.2432	-4.7493	0.0021	-0.0001	-0.0025	2.50	PASS
				NV	3.6192	-0.4578	-3.6192	0.0020	-0.0002	-0.0019	2.50	PASS
				HV	3.8338	-0.1717	-4.4918	0.0021	-0.0001	-0.0024	2.50	PASS

Test Band: 2 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	1.4305	-0.5865	-3.8052	0.0008	-0.0003	-0.0020	2.50	PASS
				-20.00	3.3903	-0.0429	-3.4618	0.0018	0.0000	-0.0018	2.50	PASS
				-10.00	1.5163	0.9871	-1.5163	0.0008	0.0005	-0.0008	2.50	PASS
				0.00	-0.5293	1.5450	-1.9169	-0.0003	0.0008	-0.0010	2.50	PASS
				10.00	0.6723	-0.3862	-5.1355	0.0004	-0.0002	-0.0027	2.50	PASS
				20.00	1.4448	-1.7452	-3.7050	0.0008	-0.0009	-0.0019	2.50	PASS
				30.00	0.5579	-0.2003	-1.8597	0.0003	-0.0001	-0.0010	2.50	PASS
				40.00	0.4005	0.2289	-2.2316	0.0002	0.0001	-0.0012	2.50	PASS
				50.00	3.3045	0.7582	-4.5061	0.0018	0.0004	-0.0024	2.50	PASS
16QAM	25	0	NV	-30.00	4.9210	-1.3304	-5.6219	0.0027	-0.0007	-0.0029	2.50	PASS
				-20.00	2.6178	-1.9741	-4.7779	0.0014	-0.0011	-0.0025	2.50	PASS
				-10.00	2.4748	-0.2003	-3.6907	0.0013	-0.0001	-0.0019	2.50	PASS
				0.00	2.0170	0.3433	-4.2772	0.0011	0.0002	-0.0022	2.50	PASS
				10.00	0.6437	-2.4176	-1.9884	0.0003	-0.0013	-0.0010	2.50	PASS
				20.00	2.4605	-1.1444	-4.9067	0.0013	-0.0006	-0.0026	2.50	PASS
				30.00	2.0885	1.3304	-3.2759	0.0011	0.0007	-0.0017	2.50	PASS
				40.00	2.0885	2.2745	-4.6635	0.0011	0.0012	-0.0024	2.50	PASS
				50.00	2.4605	1.3304	-2.4605	0.0013	0.0007	-0.0013	2.50	PASS

Test Band: 2 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-4.1485	0.9727	3.2759	-0.0022	0.0005	0.0017	2.50	PASS
				NV	-4.6349	1.5020	4.1914	-0.0025	0.0008	0.0022	2.50	PASS
				HV	-5.5933	1.6880	2.8181	-0.0030	0.0009	0.0015	2.50	PASS
16QAM	50	0	NT	LV	-5.3215	1.2445	1.0157	-0.0029	0.0007	0.0005	2.50	PASS
				NV	-4.4203	1.3304	1.3018	-0.0024	0.0007	0.0007	2.50	PASS
				HV	-4.8065	-0.3576	2.6178	-0.0026	-0.0002	0.0014	2.50	PASS

Test Band: 2_ 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-5.1498	-0.0143	1.3018	-0.0028	0.0000	0.0007	2.50	PASS
				-20.00	-2.9325	0.4292	0.2718	-0.0016	0.0002	0.0001	2.50	PASS
				-10.00	-3.8767	0.6294	2.2030	-0.0021	0.0003	0.0012	2.50	PASS
				0.00	-4.1199	-0.3862	0.9584	-0.0022	-0.0002	0.0005	2.50	PASS
				10.00	-5.8508	-1.7309	2.5463	-0.0032	-0.0009	0.0013	2.50	PASS
				20.00	-5.2500	-0.9584	0.5150	-0.0028	-0.0005	0.0003	2.50	PASS
				30.00	-2.8467	0.2432	0.9441	-0.0015	0.0001	0.0005	2.50	PASS
				40.00	-2.7752	1.5879	2.8467	-0.0015	0.0008	0.0015	2.50	PASS
16QAM	50	0	NV	50.00	-4.9925	1.5450	0.3719	-0.0027	0.0008	0.0002	2.50	PASS
				-30.00	-5.5075	-0.4292	0.1431	-0.0030	-0.0002	0.0001	2.50	PASS
				-20.00	-6.2656	-0.4435	1.4734	-0.0034	-0.0002	0.0008	2.50	PASS
				-10.00	-3.6621	-0.5007	3.2330	-0.0020	-0.0003	0.0017	2.50	PASS
				0.00	-3.1185	-0.0572	2.1458	-0.0017	0.0000	0.0011	2.50	PASS
				10.00	-2.2459	1.1444	1.0300	-0.0012	0.0006	0.0005	2.50	PASS
				20.00	-3.1042	1.0014	2.0599	-0.0017	0.0005	0.0011	2.50	PASS
				30.00	-1.5163	2.1458	4.2057	-0.0008	0.0011	0.0022	2.50	PASS
				40.00	-5.5790	0.6866	0.7296	-0.0030	0.0004	0.0004	2.50	PASS
				50.00	-5.2214	-0.5722	0.4864	-0.0028	-0.0003	0.0003	2.50	PASS

Test Band: 2_ 15MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NT	LV	1.9884	1.3733	0.0143	0.0011	0.0007	0.0000	2.50	PASS
				NV	0.0572	-0.9155	-1.0443	0.0000	-0.0005	-0.0005	2.50	PASS
				HV	-0.4148	-1.8311	-0.9871	-0.0002	-0.0010	-0.0005	2.50	PASS
16QAM	75	0	NT	LV	1.5736	0.0286	2.5892	0.0008	0.0000	0.0014	2.50	PASS
				NV	-0.6151	1.5020	1.9312	-0.0003	0.0008	0.0010	2.50	PASS
				HV	-0.9155	1.4162	1.7166	-0.0005	0.0008	0.0009	2.50	PASS

Test Band: 2_ 15MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NV	-30.00	1.1158	-0.5722	0.1287	0.0006	-0.0003	0.0001	2.50	PASS
				-20.00	-0.9012	0.6294	-0.1001	-0.0005	0.0003	-0.0001	2.50	PASS
				-10.00	-0.2432	0.6294	0.2432	-0.0001	0.0003	0.0001	2.50	PASS
				0.00	-1.6594	0.8440	-0.5293	-0.0009	0.0004	-0.0003	2.50	PASS
				10.00	-1.1444	-1.4019	-1.4734	-0.0006	-0.0007	-0.0008	2.50	PASS
				20.00	-0.8011	-1.3304	1.4162	-0.0004	-0.0007	0.0007	2.50	PASS
				30.00	-0.1144	0.5865	-1.2875	-0.0001	0.0003	-0.0007	2.50	PASS
				40.00	0.8154	-1.3304	-0.3862	0.0004	-0.0007	-0.0002	2.50	PASS
16QAM	75	0	NV	50.00	-0.1431	-1.0300	-1.6594	-0.0001	-0.0005	-0.0009	2.50	PASS
				-30.00	1.0729	1.5593	0.7010	0.0006	0.0008	0.0004	2.50	PASS
				-20.00	0.7725	1.8024	0.5293	0.0004	0.0010	0.0003	2.50	PASS
				-10.00	2.4462	1.3590	0.3433	0.0013	0.0007	0.0002	2.50	PASS
				0.00	0.8869	-1.7023	1.2159	0.0005	-0.0009	0.0006	2.50	PASS
				10.00	1.1158	-1.0872	2.3890	0.0006	-0.0006	0.0013	2.50	PASS
				20.00	2.0027	-1.1444	0.7439	0.0011	-0.0006	0.0004	2.50	PASS
				30.00	3.0470	-1.1587	1.4734	0.0016	-0.0006	0.0008	2.50	PASS
				40.00	2.6751	-0.2289	-1.4019	0.0014	-0.0001	-0.0007	2.50	PASS
				50.00	-1.1015	-0.7582	-0.1287	-0.0006	-0.0004	-0.0001	2.50	PASS

Test Band: 2 20MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NT	LV	2.1172	0.2718	-2.7609	0.0011	0.0001	-0.0015	2.50	PASS
				NV	2.3603	-0.9155	-2.1744	0.0013	-0.0005	-0.0011	2.50	PASS
				HV	2.8038	-1.4019	-4.3774	0.0015	-0.0007	-0.0023	2.50	PASS
16QAM	100	0	NT	LV	2.0599	0.3290	-3.4189	0.0011	0.0002	-0.0018	2.50	PASS
				NV	2.0313	0.5722	-3.8195	0.0011	0.0003	-0.0020	2.50	PASS
				HV	-0.3004	-1.4162	-3.1328	-0.0002	-0.0008	-0.0016	2.50	PASS

Test Band: 2_20MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NV	-30.00	1.9884	0.5579	-5.2214	0.0011	0.0003	-0.0027	2.50	PASS
				-20.00	0.5722	-0.8869	-5.0497	0.0003	-0.0005	-0.0027	2.50	PASS
				-10.00	2.6464	-1.8454	-2.7895	0.0014	-0.0010	-0.0015	2.50	PASS
				0.00	-0.4292	-1.3304	-4.4918	-0.0002	-0.0007	-0.0024	2.50	PASS
				10.00	0.8297	1.0586	-2.8896	0.0004	0.0006	-0.0015	2.50	PASS
				20.00	1.1301	1.2302	-2.0885	0.0006	0.0007	-0.0011	2.50	PASS
				30.00	2.9898	-1.1444	-2.9898	0.0016	-0.0006	-0.0016	2.50	PASS
				40.00	-0.1144	-1.1444	-4.3631	-0.0001	-0.0006	-0.0023	2.50	PASS
				50.00	1.4162	-1.0586	-4.4918	0.0008	-0.0006	-0.0024	2.50	PASS
16QAM	100	0	NV	-30.00	0.3147	0.8869	-5.0926	0.0002	0.0005	-0.0027	2.50	PASS
				-20.00	-0.2289	1.1730	-1.8024	-0.0001	0.0006	-0.0009	2.50	PASS
				-10.00	2.0456	0.6008	-1.2016	0.0011	0.0003	-0.0006	2.50	PASS
				0.00	3.7766	1.1873	-5.2214	0.0020	0.0006	-0.0027	2.50	PASS
				10.00	2.1887	1.6165	-4.0483	0.0012	0.0009	-0.0021	2.50	PASS
				20.00	2.7752	0.9012	-2.9898	0.0015	0.0005	-0.0016	2.50	PASS
				30.00	1.2588	1.1301	-3.9768	0.0007	0.0006	-0.0021	2.50	PASS
				40.00	-0.1144	1.7595	-4.7207	-0.0001	0.0009	-0.0025	2.50	PASS
				50.00	1.6022	1.0157	-3.5191	0.0009	0.0005	-0.0019	2.50	PASS

2. Frequency stability

2.1 Test Result

Test Band: 4 1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	1.8311	-0.6008	-1.5879	0.0011	-0.0003	-0.0009	2.50	PASS
				NV	0.7296	1.6165	-3.6621	0.0004	0.0009	-0.0021	2.50	PASS
				HV	0.8869	-0.7868	-4.4775	0.0005	-0.0005	-0.0026	2.50	PASS
16QAM	6	0	NT	LV	0.5722	-1.1301	-5.0640	0.0003	-0.0007	-0.0029	2.50	PASS
				NV	4.0627	-1.1015	-2.7180	0.0024	-0.0006	-0.0015	2.50	PASS
				HV	2.7609	-1.1015	-3.8195	0.0016	-0.0006	-0.0022	2.50	PASS

Test Band: 4_1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	3.2759	-0.3719	-2.1315	0.0019	-0.0002	-0.0012	2.50	PASS
				-20.00	0.9727	-2.1172	-0.5579	0.0006	-0.0012	-0.0003	2.50	PASS
				-10.00	2.5892	-1.0300	-2.0742	0.0015	-0.0006	-0.0012	2.50	PASS
				0.00	1.0443	0.7010	-4.6778	0.0006	0.0004	-0.0027	2.50	PASS
				10.00	2.4462	0.0572	-3.2902	0.0014	0.0000	-0.0019	2.50	PASS

				20.00	0.0715	1.0014	-3.2330	0.0000	0.0006	-0.0018	2.50	PASS
				30.00	0.2146	-0.5579	-4.3344	0.0001	-0.0003	-0.0025	2.50	PASS
				40.00	3.3045	-0.7153	-1.8454	0.0019	-0.0004	-0.0011	2.50	PASS
				50.00	2.1601	-1.3161	-4.6062	0.0013	-0.0008	-0.0026	2.50	PASS
16QAM	6	0	NV	-30.00	0.5436	1.2588	-4.2200	0.0003	0.0007	-0.0024	2.50	PASS
				-20.00	3.2902	0.7296	-5.1785	0.0019	0.0004	-0.0030	2.50	PASS
				-10.00	2.9755	0.2718	-4.2629	0.0017	0.0002	-0.0024	2.50	PASS
				0.00	0.5150	0.6437	-3.2616	0.0003	0.0004	-0.0019	2.50	PASS
				10.00	1.1730	-1.5020	-4.9639	0.0007	-0.0009	-0.0028	2.50	PASS
				20.00	-0.2861	-1.7166	-5.5218	-0.0002	-0.0010	-0.0031	2.50	PASS
				30.00	-0.0715	-0.9441	-4.3631	0.0000	-0.0005	-0.0025	2.50	PASS
				40.00	3.5191	-1.3733	-4.2200	0.0021	-0.0008	-0.0024	2.50	PASS
				50.00	0.3719	1.1730	-3.8624	0.0002	0.0007	-0.0022	2.50	PASS

Test Band: 4 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	0.9441	-0.2146	0.7868	0.0006	-0.0001	0.0004	2.50	PASS
				NV	1.1873	-1.3018	-0.7010	0.0007	-0.0008	-0.0004	2.50	PASS
				HV	1.9741	0.4864	-1.6880	0.0012	0.0003	-0.0010	2.50	PASS
16QAM	15	0	NT	LV	-1.3304	2.1887	-1.1587	-0.0008	0.0013	-0.0007	2.50	PASS
				NV	-0.5293	0.8583	-0.1287	-0.0003	0.0005	-0.0001	2.50	PASS
				HV	-1.6022	1.4305	-0.0572	-0.0009	0.0008	0.0000	2.50	PASS

Test Band: 4 3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	-0.5436	-0.9012	0.9298	-0.0003	-0.0005	0.0005	2.50	PASS
				-20.00	1.5450	-2.4319	1.3161	0.0009	-0.0014	0.0008	2.50	PASS
				-10.00	-1.6308	0.7296	0.6866	-0.0010	0.0004	0.0004	2.50	PASS
				0.00	0.3433	-1.7309	0.0143	0.0002	-0.0010	0.0000	2.50	PASS
				10.00	-0.4292	-0.9584	-1.7738	-0.0003	-0.0006	-0.0010	2.50	PASS
				20.00	-0.7439	1.7023	-1.5736	-0.0004	0.0010	-0.0009	2.50	PASS
				30.00	1.1015	-0.7725	-2.0599	0.0006	-0.0004	-0.0012	2.50	PASS
				40.00	0.4435	1.0586	0.2432	0.0003	0.0006	0.0001	2.50	PASS
				50.00	0.7153	1.5020	1.0157	0.0004	0.0009	0.0006	2.50	PASS
16QAM	15	0	NV	-30.00	0.1431	0.8869	-1.8311	0.0001	0.0005	-0.0010	2.50	PASS
				-20.00	-0.4005	-1.0586	0.6151	-0.0002	-0.0006	0.0004	2.50	PASS
				-10.00	0.1144	-0.9012	-1.0729	0.0001	-0.0005	-0.0006	2.50	PASS
				0.00	1.1444	1.2445	-0.1860	0.0007	0.0007	-0.0001	2.50	PASS
				10.00	-0.9012	1.0300	2.7466	-0.0005	0.0006	0.0016	2.50	PASS
				20.00	-1.3018	1.8311	0.5579	-0.0008	0.0011	0.0003	2.50	PASS
				30.00	-1.3590	0.6866	0.1144	-0.0008	0.0004	0.0001	2.50	PASS
				40.00	-1.7452	2.4176	1.9312	-0.0010	0.0014	0.0011	2.50	PASS
				50.00	0.4148	1.7023	-1.1015	0.0002	0.0010	-0.0006	2.50	PASS

Test Band: 4 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	0.6723	1.1301	-2.2173	0.0004	0.0007	-0.0013	2.50	PASS
				NV	2.8467	-0.4148	-1.8597	0.0017	-0.0002	-0.0011	2.50	PASS
				HV	-0.1287	-0.6294	-4.3058	-0.0001	-0.0004	-0.0025	2.50	PASS
16QAM	25	0	NT	LV	1.4734	1.9598	-1.4448	0.0009	0.0011	-0.0008	2.50	PASS
				NV	0.1144	-0.9155	-1.4734	0.0001	-0.0005	-0.0008	2.50	PASS
				HV	1.0300	1.2302	-4.2343	0.0006	0.0007	-0.0024	2.50	PASS

Test Band: 4 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	2.3460	-1.2732	-3.5763	0.0014	-0.0007	-0.0020	2.50	PASS
				-20.00	0.6723	-0.4864	-3.5620	0.0004	-0.0003	-0.0020	2.50	PASS
				-10.00	0.6723	1.2302	-4.1914	0.0004	0.0007	-0.0024	2.50	PASS
				0.00	-0.2432	-0.4578	-2.1315	-0.0001	-0.0003	-0.0012	2.50	PASS
				10.00	-0.4435	0.9298	-0.8154	-0.0003	0.0005	-0.0005	2.50	PASS
				20.00	2.9898	-0.8154	-3.4475	0.0017	-0.0005	-0.0020	2.50	PASS
				30.00	1.5879	-1.3876	-4.4489	0.0009	-0.0008	-0.0025	2.50	PASS
				40.00	0.5436	2.0313	-2.6321	0.0003	0.0012	-0.0015	2.50	PASS
				50.00	-0.5579	1.7452	-1.5163	-0.0003	0.0010	-0.0009	2.50	PASS
16QAM	25	0	NV	-30.00	2.4748	-0.3290	-2.0456	0.0014	-0.0002	-0.0012	2.50	PASS
				-20.00	-0.0429	-1.2445	-1.0014	0.0000	-0.0007	-0.0006	2.50	PASS
				-10.00	-0.6437	-2.3460	-3.8195	-0.0004	-0.0014	-0.0022	2.50	PASS
				0.00	0.8583	1.4591	-2.7323	0.0005	0.0008	-0.0016	2.50	PASS
				10.00	0.8869	-1.9169	-4.0483	0.0005	-0.0011	-0.0023	2.50	PASS
				20.00	0.8011	-0.6294	-4.8065	0.0005	-0.0004	-0.0027	2.50	PASS
				30.00	0.6723	-1.2302	-4.2915	0.0004	-0.0007	-0.0024	2.50	PASS
				40.00	0.5150	1.0157	-4.8208	0.0003	0.0006	-0.0028	2.50	PASS
				50.00	0.7296	0.3290	-1.3447	0.0004	0.0002	-0.0008	2.50	PASS

Test Band: 4 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-3.8624	-1.3304	2.8038	-0.0023	-0.0008	0.0016	2.50	PASS
				NV	-3.6335	0.4148	2.1887	-0.0021	0.0002	0.0013	2.50	PASS
				HV	-2.3746	0.4435	-0.0572	-0.0014	0.0003	0.0000	2.50	PASS
16QAM	50	0	NT	LV	-4.3058	0.6723	1.0300	-0.0025	0.0004	0.0006	2.50	PASS
				NV	-1.6880	0.2146	2.3317	-0.0010	0.0001	0.0013	2.50	PASS
				HV	-1.6165	-1.2588	0.7725	-0.0009	-0.0007	0.0004	2.50	PASS

Test Band: 4 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-4.0054	-0.3147	2.7323	-0.0023	-0.0002	0.0016	2.50	PASS
				-20.00	-2.4462	1.2875	2.6035	-0.0014	0.0007	0.0015	2.50	PASS
				-10.00	-2.1029	-1.2588	2.6608	-0.0012	-0.0007	0.0015	2.50	PASS
				0.00	-4.8923	-1.9741	2.9469	-0.0029	-0.0011	0.0017	2.50	PASS
				10.00	-2.8467	1.0872	0.9584	-0.0017	0.0006	0.0005	2.50	PASS
				20.00	-2.2459	0.3433	0.8583	-0.0013	0.0002	0.0005	2.50	PASS
				30.00	-2.6321	-1.0586	1.3018	-0.0015	-0.0006	0.0007	2.50	PASS
				40.00	-3.1328	-0.6723	2.5606	-0.0018	-0.0004	0.0015	2.50	PASS
				50.00	-1.6451	-0.5436	1.2875	-0.0010	-0.0003	0.0007	2.50	PASS
16QAM	50	0	NV	-30.00	-1.2445	-1.1587	1.6880	-0.0007	-0.0007	0.0010	2.50	PASS
				-20.00	-1.1587	0.8583	1.3590	-0.0007	0.0005	0.0008	2.50	PASS
				-10.00	-1.8454	-0.7153	-0.4005	-0.0011	-0.0004	-0.0002	2.50	PASS
				0.00	-3.7193	0.6294	3.2330	-0.0022	0.0004	0.0018	2.50	PASS
				10.00	-3.4904	0.0858	2.7037	-0.0020	0.0000	0.0015	2.50	PASS
				20.00	-3.4189	-0.8583	0.5007	-0.0020	-0.0005	0.0003	2.50	PASS
				30.00	-4.8065	-0.8011	3.8910	-0.0028	-0.0005	0.0022	2.50	PASS
				40.00	-4.3631	1.1730	2.4319	-0.0025	0.0007	0.0014	2.50	PASS
				50.00	-2.6178	0.8726	2.5034	-0.0015	0.0005	0.0014	2.50	PASS

Test Band: 4 15MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NT	LV	0.1717	-0.5150	0.0715	0.0001	-0.0003	0.0000	2.50	PASS
				NV	-0.3433	-1.6594	1.5593	-0.0002	-0.0010	0.0009	2.50	PASS
				HV	-0.5579	-1.0872	-1.2588	-0.0003	-0.0006	-0.0007	2.50	PASS
16QAM	75	0	NT	LV	-0.6008	1.7166	-0.2432	-0.0003	0.0010	-0.0001	2.50	PASS
				NV	-1.2875	0.5865	0.7439	-0.0007	0.0003	0.0004	2.50	PASS
				HV	-2.4033	0.9871	0.2718	-0.0014	0.0006	0.0002	2.50	PASS

Test Band: 4_15MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NV	-30.00	0.0858	-1.5736	-0.9155	0.0000	-0.0009	-0.0005	2.50	PASS
				-20.00	0.4005	0.2861	-0.0429	0.0002	0.0002	0.0000	2.50	PASS
				-10.00	0.5007	0.0143	1.5593	0.0003	0.0000	0.0009	2.50	PASS
				0.00	-1.3447	0.4721	2.2459	-0.0008	0.0003	0.0013	2.50	PASS
				10.00	-0.1717	-0.1431	2.5463	-0.0001	-0.0001	0.0015	2.50	PASS
				20.00	0.9871	0.2289	1.4734	0.0006	0.0001	0.0008	2.50	PASS
				30.00	1.1444	-0.5579	1.3447	0.0007	-0.0003	0.0008	2.50	PASS
				40.00	-1.8168	0.5865	1.4734	-0.0011	0.0003	0.0008	2.50	PASS
				50.00	0.1001	0.0143	-0.2289	0.0001	0.0000	-0.0001	2.50	PASS
16QAM	75	0	NV	-30.00	-1.2302	-1.3733	-0.6151	-0.0007	-0.0008	-0.0004	2.50	PASS
				-20.00	-0.5007	0.5436	1.2016	-0.0003	0.0003	0.0007	2.50	PASS
				-10.00	-0.7153	1.4305	-0.8440	-0.0004	0.0008	-0.0005	2.50	PASS
				0.00	-0.3004	0.0715	1.4305	-0.0002	0.0000	0.0008	2.50	PASS
				10.00	-0.5579	0.7582	-0.3862	-0.0003	0.0004	-0.0002	2.50	PASS
				20.00	-0.3004	1.2732	0.8154	-0.0002	0.0007	0.0005	2.50	PASS
				30.00	0.5007	-1.1301	-0.0143	0.0003	-0.0007	0.0000	2.50	PASS
				40.00	-0.1860	0.1717	-1.2875	-0.0001	0.0001	-0.0007	2.50	PASS
				50.00	-0.6580	-0.8011	1.3304	-0.0004	-0.0005	0.0008	2.50	PASS

Test Band: 4 20MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NT	LV	1.9312	1.4591	-2.4748	0.0011	0.0008	-0.0014	2.50	PASS
				NV	2.0313	-1.3876	-2.4462	0.0012	-0.0008	-0.0014	2.50	PASS
				HV	0.7439	1.4448	-2.3890	0.0004	0.0008	-0.0014	2.50	PASS
16QAM	100	0	NT	LV	1.9884	-0.2718	-2.8896	0.0012	-0.0002	-0.0017	2.50	PASS
				NV	0.4148	-1.2588	-2.6464	0.0002	-0.0007	-0.0015	2.50	PASS
				HV	0.7868	-1.0300	-1.9169	0.0005	-0.0006	-0.0011	2.50	PASS

Test Band: 4_20MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NV	-30.00	1.9026	-0.7439	-4.0627	0.0011	-0.0004	-0.0023	2.50	PASS
				-20.00	0.8583	0.2146	-4.4346	0.0005	0.0001	-0.0025	2.50	PASS
				-10.00	1.0586	0.7010	-1.9169	0.0006	0.0004	-0.0011	2.50	PASS
				0.00	1.9026	-0.1001	-2.0456	0.0011	-0.0001	-0.0012	2.50	PASS
				10.00	0.6866	-0.3719	-2.1458	0.0004	-0.0002	-0.0012	2.50	PASS
				20.00	1.6451	-0.8583	-3.6192	0.0010	-0.0005	-0.0021	2.50	PASS
				30.00	1.1587	1.3733	-2.7180	0.0007	0.0008	-0.0016	2.50	PASS
				40.00	0.0429	0.9584	-2.5892	0.0000	0.0006	-0.0015	2.50	PASS
				50.00	-0.1717	1.2732	-1.7452	-0.0001	0.0007	-0.0010	2.50	PASS
16QAM	100	0	NV	-30.00	0.0572	-1.0443	-3.7193	0.0000	-0.0006	-0.0021	2.50	PASS

				-20.00	0.8726	0.5579	-1.7309	0.0005	0.0003	-0.0010	2.50	PASS
				-10.00	0.9727	0.3290	-3.6049	0.0006	0.0002	-0.0021	2.50	PASS
				0.00	0.2003	-0.4292	-4.5061	0.0001	-0.0002	-0.0026	2.50	PASS
				10.00	-0.0715	-0.8869	-2.4176	0.0000	-0.0005	-0.0014	2.50	PASS
				20.00	-0.1001	-0.7868	-3.1757	-0.0001	-0.0005	-0.0018	2.50	PASS
				30.00	0.4148	1.4448	-3.7193	0.0002	0.0008	-0.0021	2.50	PASS
				40.00	0.9871	1.4591	-1.4305	0.0006	0.0008	-0.0008	2.50	PASS
				50.00	0.6437	1.4448	-1.6165	0.0004	0.0008	-0.0009	2.50	PASS

3. Frequency stability

3.1 Test Result

Test Band: 5 1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	-1.1873	-1.0014	-0.5722	-0.0014	-0.0012	-0.0007	2.50	PASS
				NV	-0.8583	-1.6594	0.3147	-0.0010	-0.0020	0.0004	2.50	PASS
				HV	-0.8440	-1.4448	-0.9012	-0.0010	-0.0017	-0.0011	2.50	PASS
16QAM	6	0	NT	LV	-0.5865	-1.3447	-1.0157	-0.0007	-0.0016	-0.0012	2.50	PASS
				NV	-2.3890	-0.0286	-1.3018	-0.0029	0.0000	-0.0015	2.50	PASS
				HV	-2.5606	-0.8440	-0.8869	-0.0031	-0.0010	-0.0010	2.50	PASS

Test Band: 5 1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	-1.6022	-0.4005	-0.1860	-0.0019	-0.0005	-0.0002	2.50	PASS
				-20.00	-1.0586	-0.3147	-0.6437	-0.0013	-0.0004	-0.0008	2.50	PASS
				-10.00	-0.6866	0.2861	0.7296	-0.0008	0.0003	0.0009	2.50	PASS
				0.00	-2.4319	0.4578	-0.2289	-0.0029	0.0005	-0.0003	2.50	PASS
				10.00	-0.9012	-1.4019	-0.4005	-0.0011	-0.0017	-0.0005	2.50	PASS
				20.00	-1.4448	-1.8597	-1.4591	-0.0018	-0.0022	-0.0017	2.50	PASS
				30.00	-0.2432	0.0143	0.5865	-0.0003	0.0000	0.0007	2.50	PASS
				40.00	-1.7309	-0.0715	0.5579	-0.0021	-0.0001	0.0007	2.50	PASS
				50.00	-0.7296	-1.1444	-1.5736	-0.0009	-0.0014	-0.0019	2.50	PASS
16QAM	6	0	NV	-30.00	-1.1015	-0.9584	0.3433	-0.0013	-0.0011	0.0004	2.50	PASS
				-20.00	-0.5722	-1.1444	0.7296	-0.0007	-0.0014	0.0009	2.50	PASS
				-10.00	0.1287	-1.4305	0.2718	0.0002	-0.0017	0.0003	2.50	PASS
				0.00	-1.6308	-1.5879	-0.7725	-0.0020	-0.0019	-0.0009	2.50	PASS
				10.00	-2.1029	0.4864	0.4721	-0.0025	0.0006	0.0006	2.50	PASS
				20.00	-1.5450	-0.3719	-0.8297	-0.0019	-0.0004	-0.0010	2.50	PASS
				30.00	-1.6451	-2.2459	-0.7296	-0.0020	-0.0027	-0.0009	2.50	PASS
				40.00	-2.8753	-2.2316	-1.0586	-0.0035	-0.0027	-0.0012	2.50	PASS
				50.00	-2.1744	-1.0586	-0.6723	-0.0026	-0.0013	-0.0008	2.50	PASS

Test Band: 5 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	-0.3147	-0.2718	-1.6737	-0.0004	-0.0003	-0.0020	2.50	PASS
				NV	-0.4435	-0.3576	-1.1158	-0.0005	-0.0004	-0.0013	2.50	PASS
				HV	-0.3004	-0.1717	-2.4462	-0.0004	-0.0002	-0.0029	2.50	PASS
16QAM	15	0	NT	LV	-1.8024	-0.8297	-1.3304	-0.0022	-0.0010	-0.0016	2.50	PASS
				NV	-2.3031	-1.2159	-0.9155	-0.0028	-0.0015	-0.0011	2.50	PASS
				HV	-2.3031	-0.2861	0.1574	-0.0028	-0.0003	0.0002	2.50	PASS

Test Band: 5_ 3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	-0.1144	0.1287	-2.0313	-0.0001	0.0002	-0.0024	2.50	PASS
				-20.00	0.0000	-0.4864	-1.9312	0.0000	-0.0006	-0.0023	2.50	PASS
				-10.00	0.0286	-0.1001	-1.9455	0.0000	-0.0001	-0.0023	2.50	PASS
				0.00	0.7582	-0.8297	-2.4748	0.0009	-0.0010	-0.0029	2.50	PASS
				10.00	-0.8154	-1.7452	-2.5749	-0.0010	-0.0021	-0.0030	2.50	PASS
				20.00	-2.0170	-1.4734	-1.4305	-0.0024	-0.0018	-0.0017	2.50	PASS
				30.00	-1.2016	-0.0143	-0.7725	-0.0015	0.0000	-0.0009	2.50	PASS
				40.00	-0.2861	-0.1717	-2.8753	-0.0003	-0.0002	-0.0034	2.50	PASS
				50.00	-0.2575	-2.3317	-1.4305	-0.0003	-0.0028	-0.0017	2.50	PASS
16QAM	15	0	NV	-30.00	-1.4305	-2.2030	-0.9584	-0.0017	-0.0026	-0.0011	2.50	PASS
				-20.00	-2.0742	-1.9598	-2.6464	-0.0025	-0.0023	-0.0031	2.50	PASS
				-10.00	-1.3590	-1.2732	-2.7895	-0.0016	-0.0015	-0.0033	2.50	PASS
				0.00	-1.4019	-1.0014	-1.1301	-0.0017	-0.0012	-0.0013	2.50	PASS
				10.00	-1.5879	0.0429	-1.8740	-0.0019	0.0001	-0.0022	2.50	PASS
				20.00	-2.0170	-0.6151	-1.1587	-0.0024	-0.0007	-0.0014	2.50	PASS
				30.00	-0.6866	0.4721	-1.2159	-0.0008	0.0006	-0.0014	2.50	PASS
				40.00	-0.5007	-0.6437	-1.6594	-0.0006	-0.0008	-0.0020	2.50	PASS
				50.00	-0.6294	-1.6165	-1.8597	-0.0008	-0.0019	-0.0022	2.50	PASS

Test Band: 5_ 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-3.3331	-1.8597	-1.4448	-0.0040	-0.0022	-0.0017	2.50	PASS
				NV	-2.8896	-0.7725	0.2861	-0.0035	-0.0009	0.0003	2.50	PASS
				HV	-2.9469	-1.2588	0.6008	-0.0036	-0.0015	0.0007	2.50	PASS
16QAM	25	0	NT	LV	-1.0872	-1.3161	-0.8583	-0.0013	-0.0016	-0.0010	2.50	PASS
				NV	-1.0586	-0.3004	-0.0572	-0.0013	-0.0004	-0.0001	2.50	PASS
				HV	-1.9741	0.6580	0.8583	-0.0024	0.0008	0.0010	2.50	PASS

Test Band: 5_ 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-1.4734	-1.9169	-1.3876	-0.0018	-0.0023	-0.0016	2.50	PASS
				-20.00	-1.9884	-1.3447	-1.9741	-0.0024	-0.0016	-0.0023	2.50	PASS
				-10.00	-1.8311	-0.1574	-0.5150	-0.0022	-0.0002	-0.0006	2.50	PASS
				0.00	-2.0885	-0.3862	0.2003	-0.0025	-0.0005	0.0002	2.50	PASS
				10.00	-1.5163	-2.0170	-1.0729	-0.0018	-0.0024	-0.0013	2.50	PASS
				20.00	-2.5892	-1.2159	-0.9727	-0.0031	-0.0015	-0.0011	2.50	PASS
				30.00	-1.2445	-0.4292	-1.7023	-0.0015	-0.0005	-0.0020	2.50	PASS
				40.00	-1.7738	-1.4019	-0.5579	-0.0021	-0.0017	-0.0007	2.50	PASS
				50.00	-0.8440	-2.4891	-0.0858	-0.0010	-0.0030	-0.0001	2.50	PASS
16QAM	25	0	NV	-30.00	-1.2159	1.0300	-0.7296	-0.0015	0.0012	-0.0009	2.50	PASS
				-20.00	-1.0729	0.1574	-0.1574	-0.0013	0.0002	-0.0002	2.50	PASS
				-10.00	-1.6022	-0.3862	-0.0429	-0.0019	-0.0005	-0.0001	2.50	PASS
				0.00	-2.5892	-1.3447	-0.7296	-0.0031	-0.0016	-0.0009	2.50	PASS
				10.00	-1.1730	-1.0300	-1.9026	-0.0014	-0.0012	-0.0022	2.50	PASS
				20.00	-3.4189	0.2432	-1.0014	-0.0041	0.0003	-0.0012	2.50	PASS
				30.00	-1.9455	-0.0858	-0.0143	-0.0024	-0.0001	0.0000	2.50	PASS
				40.00	-1.4305	-0.6008	-0.9727	-0.0017	-0.0007	-0.0011	2.50	PASS
				50.00	-3.1042	0.7582	-1.5736	-0.0038	0.0009	-0.0019	2.50	PASS

Test Band: 5 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-0.7582	-1.5879	0.2861	-0.0009	-0.0019	0.0003	2.50	PASS
				NV	-1.0300	0.2718	-0.7868	-0.0012	0.0003	-0.0009	2.50	PASS
				HV	-0.5722	-0.4148	-2.2030	-0.0007	-0.0005	-0.0026	2.50	PASS
16QAM	50	0	NT	LV	-1.9884	-1.4305	-0.6151	-0.0024	-0.0017	-0.0007	2.50	PASS
				NV	-1.1301	0.5293	-1.9312	-0.0014	0.0006	-0.0023	2.50	PASS
				HV	-0.8154	-1.6451	-1.9741	-0.0010	-0.0020	-0.0023	2.50	PASS

Test Band: 5_10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-1.7023	-0.6723	-1.9312	-0.0021	-0.0008	-0.0023	2.50	PASS
				-20.00	-1.5450	-0.6866	-1.7881	-0.0019	-0.0008	-0.0021	2.50	PASS
				-10.00	-0.8869	0.5007	-1.8883	-0.0011	0.0006	-0.0022	2.50	PASS
				0.00	-1.1015	-0.5293	-0.1001	-0.0013	-0.0006	-0.0001	2.50	PASS
				10.00	-0.5722	-1.3876	-0.6580	-0.0007	-0.0017	-0.0008	2.50	PASS
				20.00	-1.0586	0.0429	-0.4578	-0.0013	0.0001	-0.0005	2.50	PASS
				30.00	-1.1587	-1.2732	-0.7582	-0.0014	-0.0015	-0.0009	2.50	PASS
				40.00	-1.0443	-1.5020	-2.4319	-0.0013	-0.0018	-0.0029	2.50	PASS
				50.00	-1.5306	-1.3018	-1.3733	-0.0018	-0.0016	-0.0016	2.50	PASS
16QAM	50	0	NV	-30.00	-2.1315	-0.9871	-2.2030	-0.0026	-0.0012	-0.0026	2.50	PASS
				-20.00	-0.6723	-1.2302	-1.6165	-0.0008	-0.0015	-0.0019	2.50	PASS
				-10.00	-1.9455	-1.9884	-1.6737	-0.0023	-0.0024	-0.0020	2.50	PASS
				0.00	-0.3290	0.0429	-1.8740	-0.0004	0.0001	-0.0022	2.50	PASS
				10.00	-0.5865	-0.7439	-1.9598	-0.0007	-0.0009	-0.0023	2.50	PASS
				20.00	-1.7738	-1.2732	-0.8297	-0.0021	-0.0015	-0.0010	2.50	PASS
				30.00	-0.2861	0.0572	-1.0872	-0.0003	0.0001	-0.0013	2.50	PASS
				40.00	-0.3862	-0.6294	-1.6022	-0.0005	-0.0008	-0.0019	2.50	PASS
				50.00	-1.4019	-0.9584	-1.0872	-0.0017	-0.0011	-0.0013	2.50	PASS

4. Frequency stability

4.1 Test Result

Test Band: 7 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	2.6321	-2.7180	-1.9169	0.0011	-0.0011	-0.0007	2.50	PASS
				NV	2.5749	-4.2343	-0.6580	0.0010	-0.0017	-0.0003	2.50	PASS
				HV	3.7622	-5.0354	-0.1860	0.0015	-0.0020	-0.0001	2.50	PASS
16QAM	25	0	NT	LV	1.2016	-1.3304	0.2432	0.0005	-0.0005	0.0001	2.50	PASS
				NV	1.2875	-3.7050	-1.3590	0.0005	-0.0015	-0.0005	2.50	PASS
				HV	1.0300	-3.5763	-0.4292	0.0004	-0.0014	-0.0002	2.50	PASS

Test Band: 7 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	3.0613	-4.9925	-1.6737	0.0012	-0.0020	-0.0007	2.50	PASS
				-20.00	3.2473	-4.6349	0.8154	0.0013	-0.0018	0.0003	2.50	PASS
				-10.00	1.0443	-5.3358	-1.4734	0.0004	-0.0021	-0.0006	2.50	PASS
				0.00	2.8896	-4.2057	0.1144	0.0012	-0.0017	0.0000	2.50	PASS
				10.00	0.1574	-4.3774	-0.9298	0.0001	-0.0017	-0.0004	2.50	PASS

				20.00	3.9625	-3.7766	1.1444	0.0016	-0.0015	0.0004	2.50	PASS
				30.00	3.8052	-4.3058	-0.7153	0.0015	-0.0017	-0.0003	2.50	PASS
				40.00	2.1029	-1.8024	1.6451	0.0008	-0.0007	0.0006	2.50	PASS
				50.00	1.7309	-4.3344	-2.9182	0.0007	-0.0017	-0.0011	2.50	PASS
16QAM	25	0	NV	-30.00	3.1757	-2.3890	-1.9026	0.0013	-0.0009	-0.0007	2.50	PASS
				-20.00	1.5879	-4.7779	1.0729	0.0006	-0.0019	0.0004	2.50	PASS
				-10.00	1.7595	-1.2445	1.0729	0.0007	-0.0005	0.0004	2.50	PASS
				0.00	1.4734	-2.3174	0.8154	0.0006	-0.0009	0.0003	2.50	PASS
				10.00	3.1614	-1.7452	0.7868	0.0013	-0.0007	0.0003	2.50	PASS
				20.00	0.0858	-1.8740	1.6594	0.0000	-0.0007	0.0006	2.50	PASS
				30.00	-0.2718	-1.5450	-0.7439	-0.0001	-0.0006	-0.0003	2.50	PASS
				40.00	2.2173	-1.8454	-0.6008	0.0009	-0.0007	-0.0002	2.50	PASS
				50.00	3.0327	-2.1029	1.8311	0.0012	-0.0008	0.0007	2.50	PASS

Test Band: 7 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-2.8324	-3.2759	-2.3746	-0.0011	-0.0013	-0.0009	2.50	PASS
				NV	-3.0613	-3.6621	-4.5204	-0.0012	-0.0014	-0.0018	2.50	PASS
				HV	-4.5347	-4.6206	-4.6635	-0.0018	-0.0018	-0.0018	2.50	PASS
16QAM	50	0	NT	LV	-3.9482	-4.2343	-3.8624	-0.0016	-0.0017	-0.0015	2.50	PASS
				NV	-4.3631	-4.0627	-4.2915	-0.0017	-0.0016	-0.0017	2.50	PASS
				HV	-2.7752	-2.2030	-5.2643	-0.0011	-0.0009	-0.0021	2.50	PASS

Test Band: 7_10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-3.9911	-4.6206	-4.1628	-0.0016	-0.0018	-0.0016	2.50	PASS
				-20.00	-4.4632	-5.2071	-2.4891	-0.0018	-0.0021	-0.0010	2.50	PASS
				-10.00	-5.2500	-5.4932	-2.0027	-0.0021	-0.0022	-0.0008	2.50	PASS
				0.00	-3.4618	-5.2071	-3.3760	-0.0014	-0.0021	-0.0013	2.50	PASS
				10.00	-3.0756	-2.4033	-2.6035	-0.0012	-0.0009	-0.0010	2.50	PASS
				20.00	-3.9339	-2.0170	-3.6049	-0.0016	-0.0008	-0.0014	2.50	PASS
				30.00	-1.5306	-2.0742	-3.6907	-0.0006	-0.0008	-0.0014	2.50	PASS
				40.00	-3.3188	-4.3344	-4.5490	-0.0013	-0.0017	-0.0018	2.50	PASS
				50.00	-3.9482	-4.6206	-5.1785	-0.0016	-0.0018	-0.0020	2.50	PASS
16QAM	50	0	NV	-30.00	-3.6192	-2.5463	-2.8324	-0.0014	-0.0010	-0.0011	2.50	PASS
				-20.00	-3.2187	-4.1914	-2.1315	-0.0013	-0.0017	-0.0008	2.50	PASS
				-10.00	-4.6921	-3.9053	-2.1601	-0.0019	-0.0015	-0.0008	2.50	PASS
				0.00	-5.2786	-4.6635	-1.7452	-0.0021	-0.0018	-0.0007	2.50	PASS
				10.00	-4.2629	-5.8222	-1.3304	-0.0017	-0.0023	-0.0005	2.50	PASS
				20.00	-5.0783	-5.7650	-0.1717	-0.0020	-0.0023	-0.0001	2.50	PASS
				30.00	-5.1212	-4.5061	-1.1158	-0.0020	-0.0018	-0.0004	2.50	PASS
				40.00	-5.6505	-2.1887	-1.9026	-0.0023	-0.0009	-0.0007	2.50	PASS
				50.00	-4.4489	-2.4748	-2.4033	-0.0018	-0.0010	-0.0009	2.50	PASS

Test Band: 7_15MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NT	LV	0.4005	-3.9339	2.0027	0.0002	-0.0016	0.0008	2.50	PASS
				NV	-0.1144	-2.6608	2.7466	0.0000	-0.0010	0.0011	2.50	PASS
				HV	0.3576	-4.8494	1.3447	0.0001	-0.0019	0.0005	2.50	PASS
16QAM	75	0	NT	LV	2.0313	-1.3876	1.9741	0.0008	-0.0005	0.0008	2.50	PASS
				NV	0.5150	-4.0627	3.9196	0.0002	-0.0016	0.0015	2.50	PASS
				HV	-0.4005	-5.9652	2.4891	-0.0002	-0.0024	0.0010	2.50	PASS

Test Band: 7 15MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NV	-30.00	0.0572	-2.8467	2.3603	0.0000	-0.0011	0.0009	2.50	PASS
				-20.00	0.7296	-2.1458	2.2602	0.0003	-0.0008	0.0009	2.50	PASS
				-10.00	-0.5007	-3.0470	0.1860	-0.0002	-0.0012	0.0001	2.50	PASS
				0.00	-1.0014	-4.0770	1.0729	-0.0004	-0.0016	0.0004	2.50	PASS
				10.00	1.1301	-4.7636	-0.0286	0.0005	-0.0019	0.0000	2.50	PASS
				20.00	0.8440	-2.5606	0.7439	0.0003	-0.0010	0.0003	2.50	PASS
				30.00	-1.8168	-5.7793	0.5722	-0.0007	-0.0023	0.0002	2.50	PASS
				40.00	0.6008	-3.9196	0.1287	0.0002	-0.0015	0.0001	2.50	PASS
				50.00	2.3603	-4.5919	0.8583	0.0009	-0.0018	0.0003	2.50	PASS
16QAM	75	0	NV	-30.00	0.7296	-4.5061	1.2016	0.0003	-0.0018	0.0005	2.50	PASS
				-20.00	1.2445	-3.9196	0.2003	0.0005	-0.0015	0.0001	2.50	PASS
				-10.00	0.9012	-2.8324	-0.0429	0.0004	-0.0011	0.0000	2.50	PASS
				0.00	-0.1431	-2.9039	3.3188	-0.0001	-0.0011	0.0013	2.50	PASS
				10.00	-0.2861	-2.1601	0.9727	-0.0001	-0.0009	0.0004	2.50	PASS
				20.00	-0.9584	-1.6022	0.9727	-0.0004	-0.0006	0.0004	2.50	PASS
				30.00	-1.9169	-1.5879	1.1301	-0.0008	-0.0006	0.0004	2.50	PASS
				40.00	-2.6321	-0.6437	3.8767	-0.0010	-0.0003	0.0015	2.50	PASS
				50.00	-1.8883	-1.7738	3.9196	-0.0008	-0.0007	0.0015	2.50	PASS

Test Band: 7 20MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NT	LV	2.6894	-2.8896	2.0313	0.0011	-0.0011	0.0008	2.50	PASS
				NV	1.9169	-3.7336	0.8583	0.0008	-0.0015	0.0003	2.50	PASS
				HV	-0.0572	-3.5620	0.5579	0.0000	-0.0014	0.0002	2.50	PASS
16QAM	100	0	NT	LV	1.1444	-2.6751	-0.0858	0.0005	-0.0011	0.0000	2.50	PASS
				NV	2.7180	-2.0170	1.1015	0.0011	-0.0008	0.0004	2.50	PASS
				HV	1.8168	-1.5593	1.0300	0.0007	-0.0006	0.0004	2.50	PASS

Test Band: 7 20MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NV	-30.00	1.6737	-3.4761	2.2745	0.0007	-0.0014	0.0009	2.50	PASS
				-20.00	0.9727	-1.9026	2.1172	0.0004	-0.0008	0.0008	2.50	PASS
				-10.00	1.9884	-4.4346	1.6451	0.0008	-0.0017	0.0006	2.50	PASS
				0.00	2.0742	-4.9639	2.1744	0.0008	-0.0020	0.0008	2.50	PASS
				10.00	1.7023	-2.1029	1.4591	0.0007	-0.0008	0.0006	2.50	PASS
				20.00	1.2445	-3.1757	0.7582	0.0005	-0.0013	0.0003	2.50	PASS
				30.00	2.6751	-3.2187	-0.8726	0.0011	-0.0013	-0.0003	2.50	PASS
				40.00	1.6165	-4.5347	-0.8011	0.0006	-0.0018	-0.0003	2.50	PASS
				50.00	0.7725	-1.6022	-1.7166	0.0003	-0.0006	-0.0007	2.50	PASS
16QAM	100	0	NV	-30.00	0.5007	-4.5633	-0.7439	0.0002	-0.0018	-0.0003	2.50	PASS
				-20.00	3.2043	-2.8038	1.1301	0.0013	-0.0011	0.0004	2.50	PASS
				-10.00	2.7895	-4.0340	-0.6866	0.0011	-0.0016	-0.0003	2.50	PASS
				0.00	3.3617	-4.1628	-0.2432	0.0013	-0.0016	-0.0001	2.50	PASS
				10.00	1.2016	-1.6308	0.3004	0.0005	-0.0006	0.0001	2.50	PASS
				20.00	0.0000	-1.2159	1.9598	0.0000	-0.0005	0.0008	2.50	PASS
				30.00	1.8024	-1.0872	0.7439	0.0007	-0.0004	0.0003	2.50	PASS
				40.00	0.9584	-2.1601	-0.6580	0.0004	-0.0009	-0.0003	2.50	PASS
				50.00	0.9298	-2.8753	-1.3447	0.0004	-0.0011	-0.0005	2.50	PASS

5. Frequency stability

5.1 Test Result

Test Band: 12 1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	0.0715	-1.6880	-0.9298	0.0001	-0.0024	-0.0013	2.50	PASS
				NV	1.3733	-0.2146	0.0143	0.0020	-0.0003	0.0000	2.50	PASS
				HV	0.9298	1.2302	0.9155	0.0013	0.0017	0.0013	2.50	PASS
16QAM	6	0	NT	LV	-0.6437	0.3576	0.1144	-0.0009	0.0005	0.0002	2.50	PASS
				NV	-1.9026	-0.5722	1.1301	-0.0027	-0.0008	0.0016	2.50	PASS
				HV	-1.1015	0.3862	-0.1001	-0.0016	0.0005	-0.0001	2.50	PASS

Test Band: 12 1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	1.0443	1.4591	0.5007	0.0015	0.0021	0.0007	2.50	PASS
				-20.00	1.2588	1.5736	0.4005	0.0018	0.0022	0.0006	2.50	PASS
				-10.00	0.6294	1.3304	0.6866	0.0009	0.0019	0.0010	2.50	PASS
				0.00	0.7439	0.9584	0.0143	0.0011	0.0014	0.0000	2.50	PASS
				10.00	0.4721	-1.3018	1.7595	0.0007	-0.0018	0.0025	2.50	PASS
				20.00	0.5293	-2.0599	1.1158	0.0008	-0.0029	0.0016	2.50	PASS
				30.00	0.3719	-1.9026	-0.2861	0.0005	-0.0027	-0.0004	2.50	PASS
				40.00	0.1431	-1.0872	-1.6451	0.0002	-0.0015	-0.0023	2.50	PASS
				50.00	0.0572	-1.1015	-1.9312	0.0001	-0.0016	-0.0027	2.50	PASS
16QAM	6	0	NV	-30.00	-2.9469	-2.1458	-2.8467	-0.0042	-0.0030	-0.0040	2.50	PASS
				-20.00	-2.4319	-1.0300	-2.3031	-0.0035	-0.0015	-0.0032	2.50	PASS
				-10.00	-1.9741	-0.7582	-2.0170	-0.0028	-0.0011	-0.0028	2.50	PASS
				0.00	-1.5736	-1.0586	-1.7452	-0.0022	-0.0015	-0.0024	2.50	PASS
				10.00	0.1144	-0.6008	-1.9455	0.0002	-0.0008	-0.0027	2.50	PASS
				20.00	-0.0143	-0.8869	-2.3890	0.0000	-0.0013	-0.0033	2.50	PASS
				30.00	0.6294	-1.0729	-1.8454	0.0009	-0.0015	-0.0026	2.50	PASS
				40.00	1.3590	-1.2159	-1.6880	0.0019	-0.0017	-0.0024	2.50	PASS
				50.00	1.8454	-1.2016	-1.9026	0.0026	-0.0017	-0.0027	2.50	PASS

Test Band: 12 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	-0.5579	-1.3447	-0.4721	-0.0008	-0.0019	-0.0007	2.50	PASS
				NV	-0.7439	-0.7153	0.1860	-0.0011	-0.0010	0.0003	2.50	PASS
				HV	-1.6165	-2.7323	0.8583	-0.0023	-0.0039	0.0012	2.50	PASS
16QAM	15	0	NT	LV	-0.0858	0.7153	-1.2159	-0.0001	0.0010	-0.0017	2.50	PASS
				NV	0.7725	1.7023	-0.1001	0.0011	0.0024	-0.0001	2.50	PASS
				HV	-0.9155	-0.2432	-1.1730	-0.0013	-0.0003	-0.0016	2.50	PASS

Test Band: 12_3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	-2.6751	-2.0170	0.2432	-0.0038	-0.0029	0.0003	2.50	PASS
				-20.00	-2.5606	-2.2173	-0.1001	-0.0037	-0.0031	-0.0001	2.50	PASS
				-10.00	-2.8038	-1.9312	0.1717	-0.0040	-0.0027	0.0002	2.50	PASS
				0.00	-3.0470	1.8883	-0.2861	-0.0043	0.0027	-0.0004	2.50	PASS
				10.00	-3.6335	1.7166	-0.2003	-0.0052	0.0024	-0.0003	2.50	PASS

				20.00	-0.7010	1.0300	0.6437	-0.0010	0.0015	0.0009	2.50	PASS
				30.00	-1.2302	0.4005	1.4448	-0.0018	0.0006	0.0020	2.50	PASS
				40.00	-1.3447	-0.9298	1.3590	-0.0019	-0.0013	0.0019	2.50	PASS
				50.00	-1.8168	-2.3746	1.0157	-0.0026	-0.0034	0.0014	2.50	PASS
16QAM	15	0	NV	-30.00	-0.0715	-1.3304	-0.7725	-0.0001	-0.0019	-0.0011	2.50	PASS
				-20.00	-0.9298	-0.5293	-1.8740	-0.0013	-0.0007	-0.0026	2.50	PASS
				-10.00	-0.0429	-0.7153	-2.1744	-0.0001	-0.0010	-0.0030	2.50	PASS
				0.00	-2.8324	-0.5865	-2.1458	-0.0040	-0.0008	-0.0030	2.50	PASS
				10.00	1.0014	-0.5150	-1.9598	0.0014	-0.0007	-0.0027	2.50	PASS
				20.00	1.2159	-0.6866	-2.5320	0.0017	-0.0010	-0.0035	2.50	PASS
				30.00	-0.3719	-0.8297	-2.2030	-0.0005	-0.0012	-0.0031	2.50	PASS
				40.00	-0.4148	-0.8440	-0.3004	-0.0006	-0.0012	-0.0004	2.50	PASS
				50.00	0.5007	-1.1730	-0.8440	0.0007	-0.0017	-0.0012	2.50	PASS

Test Band: 12 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-1.9455	0.7010	-0.3290	-0.0028	0.0010	-0.0005	2.50	PASS
				NV	-0.3862	1.4162	0.8011	-0.0006	0.0020	0.0011	2.50	PASS
				HV	-1.7881	0.7439	-0.4148	-0.0025	0.0011	-0.0006	2.50	PASS
16QAM	25	0	NT	LV	0.3004	-1.9598	-0.0143	0.0004	-0.0028	0.0000	2.50	PASS
				NV	1.1730	-2.4033	-1.9169	0.0017	-0.0034	-0.0027	2.50	PASS
				HV	0.4721	-3.2902	-0.9298	0.0007	-0.0047	-0.0013	2.50	PASS

Test Band: 12_5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-1.5450	-1.3018	0.3433	-0.0022	-0.0018	0.0005	2.50	PASS
				-20.00	-2.2316	-3.0470	0.0286	-0.0032	-0.0043	0.0000	2.50	PASS
				-10.00	-1.0586	-0.6437	-0.4005	-0.0015	-0.0009	-0.0006	2.50	PASS
				0.00	-1.7881	1.0300	-0.9012	-0.0025	0.0015	-0.0013	2.50	PASS
				10.00	-2.3746	0.1431	-0.8726	-0.0034	0.0002	-0.0012	2.50	PASS
				20.00	-1.1730	0.4005	0.7582	-0.0017	0.0006	0.0011	2.50	PASS
				30.00	0.7582	-0.2003	0.7582	0.0011	-0.0003	0.0011	2.50	PASS
				40.00	-0.0858	1.4305	-0.2003	-0.0001	0.0020	-0.0003	2.50	PASS
				50.00	0.0000	0.2432	0.7582	0.0000	0.0003	0.0011	2.50	PASS
16QAM	25	0	NV	-30.00	0.7439	-1.9169	-1.3590	0.0011	-0.0027	-0.0019	2.50	PASS
				-20.00	1.5163	-2.6035	-1.2445	0.0022	-0.0037	-0.0017	2.50	PASS
				-10.00	-0.6008	-2.2459	-0.8154	-0.0009	-0.0032	-0.0011	2.50	PASS
				0.00	-0.4005	-2.2888	0.7725	-0.0006	-0.0032	0.0011	2.50	PASS
				10.00	0.0572	-1.8597	0.8440	0.0001	-0.0026	0.0012	2.50	PASS
				20.00	0.5150	-2.7895	1.5163	0.0007	-0.0039	0.0021	2.50	PASS
				30.00	0.9727	-3.3331	1.5020	0.0014	-0.0047	0.0021	2.50	PASS
				40.00	-0.8869	-3.6478	1.8740	-0.0013	-0.0052	0.0026	2.50	PASS
				50.00	-0.6008	-3.6192	1.7738	-0.0009	-0.0051	0.0025	2.50	PASS

Test Band: 12 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	0.0143	-1.9884	-0.2575	0.0000	-0.0028	-0.0004	2.50	PASS
				NV	0.8869	-0.6008	-0.4435	0.0013	-0.0008	-0.0006	2.50	PASS
				HV	1.0586	0.5150	-1.8024	0.0015	0.0007	-0.0025	2.50	PASS
16QAM	50	0	NT	LV	-0.0572	-1.4448	-1.5450	-0.0001	-0.0020	-0.0022	2.50	PASS
				NV	-0.7868	-1.7595	-2.6464	-0.0011	-0.0025	-0.0037	2.50	PASS
				HV	-0.8440	-2.0456	-3.0041	-0.0012	-0.0029	-0.0042	2.50	PASS

Test Band: 12 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-1.5450	-0.4864	-1.9312	-0.0022	-0.0007	-0.0027	2.50	PASS
				-20.00	-0.8297	-2.8181	-1.9312	-0.0012	-0.0040	-0.0027	2.50	PASS
				-10.00	-0.2146	-2.2888	-1.3018	-0.0003	-0.0032	-0.0018	2.50	PASS
				0.00	0.6437	-1.8597	-0.7582	0.0009	-0.0026	-0.0011	2.50	PASS
				10.00	-0.0572	-1.7309	-1.3590	-0.0001	-0.0024	-0.0019	2.50	PASS
				20.00	-1.9884	0.0143	0.0858	-0.0028	0.0000	0.0001	2.50	PASS
				30.00	-2.6035	-2.8324	-0.2432	-0.0037	-0.0040	-0.0003	2.50	PASS
				40.00	-1.8740	-3.0756	-1.2159	-0.0027	-0.0043	-0.0017	2.50	PASS
16QAM	50	0	NV	50.00	-0.9727	-2.1601	-2.1458	-0.0014	-0.0031	-0.0030	2.50	PASS
				-30.00	-0.4435	-1.6737	-2.8467	-0.0006	-0.0024	-0.0040	2.50	PASS
				-20.00	-1.0872	-1.8740	-1.1444	-0.0015	-0.0026	-0.0016	2.50	PASS
				-10.00	-1.2445	-1.7452	-0.9871	-0.0018	-0.0025	-0.0014	2.50	PASS
				0.00	-0.8011	-1.9884	-1.7309	-0.0011	-0.0028	-0.0024	2.50	PASS
				10.00	-1.3590	-1.9741	-1.2445	-0.0019	-0.0028	-0.0018	2.50	PASS
				20.00	-0.8726	-2.1887	-1.2445	-0.0012	-0.0031	-0.0018	2.50	PASS
				30.00	-0.5150	-1.8883	-1.2302	-0.0007	-0.0027	-0.0017	2.50	PASS
				40.00	-0.8726	-1.6737	-0.5150	-0.0012	-0.0024	-0.0007	2.50	PASS
				50.00	-1.2732	-1.4591	-1.0014	-0.0018	-0.0021	-0.0014	2.50	PASS

6. Frequency stability

6.1 Test Result

Test Band: 13 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-3.1185	0.3290	-0.1431	-0.0040	0.0004	-0.0002	2.50	PASS
				NV	-3.2043	0.5579	0.4148	-0.0041	0.0007	0.0005	2.50	PASS
				HV	0.3290	0.0429	0.3147	0.0004	0.0001	0.0004	2.50	PASS
16QAM	25	0	NT	LV	-3.8481	-1.6308	-2.5177	-0.0049	-0.0021	-0.0032	2.50	PASS
				NV	-3.5334	-1.7738	-1.9312	-0.0045	-0.0023	-0.0025	2.50	PASS
				HV	-3.8910	1.2159	0.5722	-0.0050	0.0016	0.0007	2.50	PASS

Test Band: 13 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-1.2875	0.7296	-0.6008	-0.0017	0.0009	-0.0008	2.50	PASS
				-20.00	-1.0872	0.2289	0.6008	-0.0014	0.0003	0.0008	2.50	PASS
				-10.00	0.4148	-0.4864	1.0157	0.0005	-0.0006	0.0013	2.50	PASS
				0.00	-0.1860	-0.4864	0.8297	-0.0002	-0.0006	0.0011	2.50	PASS
				10.00	-1.2445	0.1574	1.4162	-0.0016	0.0002	0.0018	2.50	PASS
				20.00	-1.9026	-0.5722	-1.2732	-0.0024	-0.0007	-0.0016	2.50	PASS
				30.00	-3.0756	0.2146	-2.3031	-0.0039	0.0003	-0.0029	2.50	PASS
				40.00	-3.5906	0.7296	-2.0170	-0.0046	0.0009	-0.0026	2.50	PASS
16QAM	25	0	NV	50.00	-4.2057	-0.1431	-1.6594	-0.0054	-0.0002	-0.0021	2.50	PASS
				-30.00	-1.4162	1.2875	1.0300	-0.0018	0.0016	0.0013	2.50	PASS
				-20.00	0.3576	-3.0184	0.7725	0.0005	-0.0039	0.0010	2.50	PASS
				-10.00	-1.3447	-2.3460	0.2289	-0.0017	-0.0030	0.0003	2.50	PASS
				0.00	-0.7010	-2.1744	-1.0300	-0.0009	-0.0028	-0.0013	2.50	PASS
				10.00	-0.7868	-1.9741	-1.5736	-0.0010	-0.0025	-0.0020	2.50	PASS

				20.00	-1.0872	-2.0742	-2.0885	-0.0014	-0.0027	-0.0027	2.50	PASS
				30.00	-0.4864	-0.5293	-2.8896	-0.0006	-0.0007	-0.0037	2.50	PASS
				40.00	-1.4305	-0.3147	-1.3304	-0.0018	-0.0004	-0.0017	2.50	PASS
				50.00	-0.5722	-0.3719	-1.5450	-0.0007	-0.0005	-0.0020	2.50	PASS

Test Band: 13 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	/	-1.9884	/	/	-0.0025	/	2.50	PASS
				NV	/	-2.3603	/	/	-0.0030	/	2.50	PASS
				HV	/	0.4292	/	/	0.0005	/	2.50	PASS
16QAM	50	0	NT	LV	/	-0.8726	/	/	-0.0011	/	2.50	PASS
				NV	/	-1.0729	/	/	-0.0014	/	2.50	PASS
				HV	/	-1.6308	/	/	-0.0021	/	2.50	PASS

Test Band: 13 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	/	0.2575	/	/	0.0003	/	2.50	PASS
				-20.00	/	-0.4578	/	/	-0.0006	/	2.50	PASS
				-10.00	/	-0.1287	/	/	-0.0002	/	2.50	PASS
				0.00	/	0.1860	/	/	0.0002	/	2.50	PASS
				10.00	/	0.1574	/	/	0.0002	/	2.50	PASS
				20.00	/	0.2861	/	/	0.0004	/	2.50	PASS
				30.00	/	-2.1744	/	/	-0.0028	/	2.50	PASS
				40.00	/	-2.6035	/	/	-0.0033	/	2.50	PASS
				50.00	/	-2.1744	/	/	-0.0028	/	2.50	PASS
16QAM	50	0	NV	-30.00	/	-1.9598	/	/	-0.0025	/	2.50	PASS
				-20.00	/	-2.2745	/	/	-0.0029	/	2.50	PASS
				-10.00	/	-1.8597	/	/	-0.0024	/	2.50	PASS
				0.00	/	-2.0599	/	/	-0.0026	/	2.50	PASS
				10.00	/	-2.1029	/	/	-0.0027	/	2.50	PASS
				20.00	/	-1.7881	/	/	-0.0023	/	2.50	PASS
				30.00	/	-2.0170	/	/	-0.0026	/	2.50	PASS
				40.00	/	-1.9169	/	/	-0.0025	/	2.50	PASS
				50.00	/	-1.8883	/	/	-0.0024	/	2.50	PASS

7. Frequency stability

7.1 Test Result

Test Band: 14 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-1.9169	-2.5463	-0.5579	-0.0024	-0.0032	-0.0007	2.50	PASS
				NV	-0.8583	-0.8583	0.5722	-0.0011	-0.0011	0.0007	2.50	PASS
				HV	-3.0184	-0.3862	-1.3304	-0.0038	-0.0005	-0.0017	2.50	PASS
16QAM	25	0	NT	LV	-2.1601	-0.8297	-0.6866	-0.0027	-0.0010	-0.0009	2.50	PASS
				NV	-1.4162	-1.9598	1.1873	-0.0018	-0.0025	0.0015	2.50	PASS
				HV	-0.5150	-0.5865	-1.5163	-0.0007	-0.0007	-0.0019	2.50	PASS

Test Band: 14 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test	Test	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit	Verdict

	Size	Offset	Volt.	Temp.	LCH	MCH	HCH	LCH	MCH	HCH	(ppm)	
QPSK	25	0	NV	-30.00	-3.6478	-0.1431	-0.2861	-0.0046	-0.0002	-0.0004	2.50	PASS
				-20.00	-1.4591	-1.8024	-1.0157	-0.0018	-0.0023	-0.0013	2.50	PASS
				-10.00	-1.8454	-1.7452	-1.1873	-0.0023	-0.0022	-0.0015	2.50	PASS
				0.00	-3.2473	-1.4019	-1.5736	-0.0041	-0.0018	-0.0020	2.50	PASS
				10.00	-2.0742	-2.5463	-1.6022	-0.0026	-0.0032	-0.0020	2.50	PASS
				20.00	-0.0715	0.4292	-1.6737	-0.0001	0.0005	-0.0021	2.50	PASS
				30.00	-0.5579	-0.6723	-1.4877	-0.0007	-0.0008	-0.0019	2.50	PASS
				40.00	-1.4305	0.1144	-1.6308	-0.0018	0.0001	-0.0021	2.50	PASS
				50.00	-2.7323	-0.4005	-1.2159	-0.0035	-0.0005	-0.0015	2.50	PASS
16QAM	25	0	NV	-30.00	0.5007	-0.1144	-0.0572	0.0006	-0.0001	-0.0001	2.50	PASS
				-20.00	0.6437	1.1301	0.8297	0.0008	0.0014	0.0010	2.50	PASS
				-10.00	0.8297	-2.0313	1.8168	0.0010	-0.0026	0.0023	2.50	PASS
				0.00	0.6866	-0.1001	1.0300	0.0009	-0.0001	0.0013	2.50	PASS
				10.00	-0.0858	0.2432	2.2888	-0.0001	0.0003	0.0029	2.50	PASS
				20.00	-2.5749	0.4721	-1.0300	-0.0033	0.0006	-0.0013	2.50	PASS
				30.00	-2.4176	0.1144	0.1431	-0.0031	0.0001	0.0002	2.50	PASS
				40.00	-2.3746	0.6437	-1.4877	-0.0030	0.0008	-0.0019	2.50	PASS
				50.00	-2.4605	0.8011	-0.3719	-0.0031	0.0010	-0.0005	2.50	PASS

Test Band: 14_ 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	/	0.2289	/	/	0.0003	/	2.50	PASS
				NV	/	-0.4292	/	/	-0.0005	/	2.50	PASS
				HV	/	-1.0729	/	/	-0.0014	/	2.50	PASS
16QAM	50	0	NT	LV	/	-0.0143	/	/	0.0000	/	2.50	PASS
				NV	/	-0.1287	/	/	-0.0002	/	2.50	PASS
				HV	/	0.2861	/	/	0.0004	/	2.50	PASS

Test Band: 14_ 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	/	-1.7166	/	/	-0.0022	/	2.50	PASS
				-20.00	/	0.1287	/	/	0.0002	/	2.50	PASS
				-10.00	/	-0.5007	/	/	-0.0006	/	2.50	PASS
				0.00	/	-1.5163	/	/	-0.0019	/	2.50	PASS
				10.00	/	-1.2159	/	/	-0.0015	/	2.50	PASS
				20.00	/	-2.7466	/	/	-0.0035	/	2.50	PASS
				30.00	/	-0.6294	/	/	-0.0008	/	2.50	PASS
				40.00	/	-1.2732	/	/	-0.0016	/	2.50	PASS
				50.00	/	-1.7309	/	/	-0.0022	/	2.50	PASS
16QAM	50	0	NV	-30.00	/	0.2575	/	/	0.0003	/	2.50	PASS
				-20.00	/	0.1717	/	/	0.0002	/	2.50	PASS
				-10.00	/	0.0858	/	/	0.0001	/	2.50	PASS
				0.00	/	-0.1001	/	/	-0.0001	/	2.50	PASS
				10.00	/	-0.1717	/	/	-0.0002	/	2.50	PASS
				20.00	/	0.0143	/	/	0.0000	/	2.50	PASS
				30.00	/	0.1431	/	/	0.0002	/	2.50	PASS
				40.00	/	0.8154	/	/	0.0010	/	2.50	PASS
				50.00	/	0.4721	/	/	0.0006	/	2.50	PASS

8. Frequency stability

8.1 Test Result

Test Band: 17 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-2.6178	-0.6008	-1.8311	-0.0037	-0.0008	-0.0026	2.50	PASS
				NV	-0.8583	0.2003	0.0858	-0.0012	0.0003	0.0001	2.50	PASS
				HV	0.4148	1.0872	0.8154	0.0006	0.0015	0.0011	2.50	PASS
16QAM	25	0	NT	LV	-2.4748	-0.9441	-1.1301	-0.0035	-0.0013	-0.0016	2.50	PASS
				NV	-2.0456	0.1717	-1.3447	-0.0029	0.0002	-0.0019	2.50	PASS
				HV	-1.2302	-0.3290	-1.5163	-0.0017	-0.0005	-0.0021	2.50	PASS

Test Band: 17 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-0.4435	1.1015	1.1873	-0.0006	0.0016	0.0017	2.50	PASS
				-20.00	-2.7037	0.5007	1.1301	-0.0038	0.0007	0.0016	2.50	PASS
				-10.00	-2.2459	-0.1717	0.3004	-0.0032	-0.0002	0.0004	2.50	PASS
				0.00	-1.1730	-0.5007	-0.2718	-0.0017	-0.0007	-0.0004	2.50	PASS
				10.00	-1.3161	-0.3290	-0.8297	-0.0019	-0.0005	-0.0012	2.50	PASS
				20.00	-2.0027	-0.8154	-1.3018	-0.0028	-0.0011	-0.0018	2.50	PASS
				30.00	-2.1601	-1.7023	-1.8597	-0.0031	-0.0024	-0.0026	2.50	PASS
				40.00	-2.0599	0.3576	-0.2718	-0.0029	0.0005	-0.0004	2.50	PASS
				50.00	-1.9026	-0.4005	-1.8454	-0.0027	-0.0006	-0.0026	2.50	PASS
16QAM	25	0	NV	-30.00	-0.6437	-0.0715	-0.7010	-0.0009	-0.0001	-0.0010	2.50	PASS
				-20.00	-0.6866	0.0429	-0.3290	-0.0010	0.0001	-0.0005	2.50	PASS
				-10.00	-0.3004	-0.3576	-0.4148	-0.0004	-0.0005	-0.0006	2.50	PASS
				0.00	-0.6580	0.7010	-0.4148	-0.0009	0.0010	-0.0006	2.50	PASS
				10.00	-0.9012	-1.3876	-0.7153	-0.0013	-0.0020	-0.0010	2.50	PASS
				20.00	-1.0014	-0.7153	-0.7868	-0.0014	-0.0010	-0.0011	2.50	PASS
				30.00	-1.1444	-0.5436	-0.9441	-0.0016	-0.0008	-0.0013	2.50	PASS
				40.00	-0.1860	-0.2003	-1.1158	-0.0003	-0.0003	-0.0016	2.50	PASS
				50.00	-0.8583	-1.6165	-1.3447	-0.0012	-0.0023	-0.0019	2.50	PASS

Test Band: 17 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-0.1431	-0.8011	-0.6437	-0.0002	-0.0011	-0.0009	2.50	PASS
				NV	0.5150	0.7439	-1.1873	0.0007	0.0010	-0.0017	2.50	PASS
				HV	-1.6880	-1.7595	-1.7166	-0.0024	-0.0025	-0.0024	2.50	PASS
16QAM	50	0	NT	LV	-1.8454	1.0872	-1.7881	-0.0026	0.0015	-0.0025	2.50	PASS
				NV	-1.3018	0.2432	-0.3004	-0.0018	0.0003	-0.0004	2.50	PASS
				HV	-0.3433	-0.6723	-1.1587	-0.0005	-0.0009	-0.0016	2.50	PASS

Test Band: 17 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-0.8726	-0.7153	-2.6321	-0.0012	-0.0010	-0.0037	2.50	PASS
				-20.00	-1.8311	-0.8440	-1.4448	-0.0026	-0.0012	-0.0020	2.50	PASS
				-10.00	-1.4734	0.1860	-2.5320	-0.0021	0.0003	-0.0036	2.50	PASS
				0.00	-0.3147	-0.7725	-0.6151	-0.0004	-0.0011	-0.0009	2.50	PASS
				10.00	-1.1873	-1.4591	-1.1873	-0.0017	-0.0021	-0.0017	2.50	PASS
				20.00	-1.0443	-1.5736	-1.1158	-0.0015	-0.0022	-0.0016	2.50	PASS
				30.00	-1.6308	-1.1015	-2.8324	-0.0023	-0.0016	-0.0040	2.50	PASS
				40.00	-0.7868	-0.3576	-3.2473	-0.0011	-0.0005	-0.0046	2.50	PASS

				50.00	-0.1860	-1.6737	-2.6894	-0.0003	-0.0024	-0.0038	2.50	PASS
16QAM	50	0	NV	-30.00	0.2432	-0.3576	-2.3031	0.0003	-0.0005	-0.0032	2.50	PASS
				-20.00	0.0572	0.4148	-2.3890	0.0001	0.0006	-0.0034	2.50	PASS
				-10.00	0.3719	-0.3433	-2.3317	0.0005	-0.0005	-0.0033	2.50	PASS
				0.00	-0.0286	-0.4578	-2.8467	0.0000	-0.0006	-0.0040	2.50	PASS
				10.00	0.0143	-0.3719	-3.0041	0.0000	-0.0005	-0.0042	2.50	PASS
				20.00	-0.7868	-0.3862	-1.0157	-0.0011	-0.0005	-0.0014	2.50	PASS
				30.00	-1.1730	0.2289	-0.8583	-0.0017	0.0003	-0.0012	2.50	PASS
				40.00	-1.0729	0.1860	-0.6723	-0.0015	0.0003	-0.0009	2.50	PASS
				50.00	-1.2445	-0.0715	-0.2718	-0.0018	-0.0001	-0.0004	2.50	PASS

9. Frequency stability

9.1 Test Result

Test Band: 25 1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	-4.1628	0.8726	-2.1172	-0.0022	0.0005	-0.0011	2.50	PASS
				NV	-4.8208	-0.9012	-2.9612	-0.0026	-0.0005	-0.0015	2.50	PASS
				HV	-3.6907	-1.1587	-4.7207	-0.0020	-0.0006	-0.0025	2.50	PASS
16QAM	6	0	NT	LV	-1.5163	-0.4864	-4.0197	-0.0008	-0.0003	-0.0021	2.50	PASS
				NV	-0.8440	2.7609	-2.7180	-0.0005	0.0015	-0.0014	2.50	PASS
				HV	-0.8869	2.1458	-1.3447	-0.0005	0.0011	-0.0007	2.50	PASS

Test Band: 25 1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	-3.0327	2.3890	-1.9026	-0.0016	0.0013	-0.0010	2.50	PASS
				-20.00	-2.9612	1.3447	-4.7636	-0.0016	0.0007	-0.0025	2.50	PASS
				-10.00	-4.0770	-0.0286	-2.4748	-0.0022	0.0000	-0.0013	2.50	PASS
				0.00	-4.2343	0.9727	-3.3045	-0.0023	0.0005	-0.0017	2.50	PASS
				10.00	-2.2602	1.5163	-5.6076	-0.0012	0.0008	-0.0029	2.50	PASS
				20.00	-0.6437	-0.1574	-1.7881	-0.0003	-0.0001	-0.0009	2.50	PASS
				30.00	-0.5722	0.4721	-3.5191	-0.0003	0.0003	-0.0018	2.50	PASS
				40.00	-4.1056	0.6294	-4.4060	-0.0022	0.0003	-0.0023	2.50	PASS
				50.00	-4.6206	1.8740	-3.4761	-0.0025	0.0010	-0.0018	2.50	PASS
16QAM	6	0	NV	-30.00	-0.4148	0.7439	-3.2473	-0.0002	0.0004	-0.0017	2.50	PASS
				-20.00	-1.5450	-0.0572	-3.6907	-0.0008	0.0000	-0.0019	2.50	PASS
				-10.00	-2.3317	-0.4005	-1.6880	-0.0013	-0.0002	-0.0009	2.50	PASS
				0.00	-0.8154	-1.3590	-2.2459	-0.0004	-0.0007	-0.0012	2.50	PASS
				10.00	-2.2173	-0.6866	-4.0627	-0.0012	-0.0004	-0.0021	2.50	PASS
				20.00	-2.8038	0.4435	-3.4332	-0.0015	0.0002	-0.0018	2.50	PASS
				30.00	-3.6907	1.6308	-1.4591	-0.0020	0.0009	-0.0008	2.50	PASS
				40.00	-3.0899	1.5306	-3.2043	-0.0017	0.0008	-0.0017	2.50	PASS
				50.00	-2.4748	0.9155	-0.4148	-0.0013	0.0005	-0.0002	2.50	PASS

Test Band: 25 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	-1.7023	-1.1730	-1.6451	-0.0009	-0.0006	-0.0009	2.50	PASS
				NV	-1.3304	-0.9584	-2.3890	-0.0007	-0.0005	-0.0012	2.50	PASS
				HV	-3.9625	0.7153	-4.6492	-0.0021	0.0004	-0.0024	2.50	PASS
16QAM	15	0	NT	LV	-2.8324	1.6308	-0.5436	-0.0015	0.0009	-0.0003	2.50	PASS

				NV	-1.7738	0.1717	-2.4605	-0.0010	0.0001	-0.0013	2.50	PASS
				HV	-3.7622	0.0572	-2.7323	-0.0020	0.0000	-0.0014	2.50	PASS

Test Band: 25 3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	-1.9312	0.0429	-2.5749	-0.0010	0.0000	-0.0013	2.50	PASS
				-20.00	-0.2861	3.1900	-1.7738	-0.0002	0.0017	-0.0009	2.50	PASS
				-10.00	-2.2316	2.0456	-4.7350	-0.0012	0.0011	-0.0025	2.50	PASS
				0.00	-3.6907	1.5593	-2.6464	-0.0020	0.0008	-0.0014	2.50	PASS
				10.00	-3.5048	0.9441	-3.7479	-0.0019	0.0005	-0.0020	2.50	PASS
				20.00	-3.5763	2.3746	-2.4891	-0.0019	0.0013	-0.0013	2.50	PASS
				30.00	-1.3018	1.1158	-4.6778	-0.0007	0.0006	-0.0024	2.50	PASS
				40.00	-1.3590	2.4033	-1.9741	-0.0007	0.0013	-0.0010	2.50	PASS
16QAM	15	0	NV	50.00	-1.6165	2.4319	-3.3617	-0.0009	0.0013	-0.0018	2.50	PASS
				-30.00	-5.4789	1.1301	-3.2187	-0.0030	0.0006	-0.0017	2.50	PASS
				-20.00	-2.4033	-0.2003	-2.8467	-0.0013	-0.0001	-0.0015	2.50	PASS
				-10.00	-2.4748	0.1287	-0.9871	-0.0013	0.0001	-0.0005	2.50	PASS
				0.00	-4.3201	0.4435	-3.9768	-0.0023	0.0002	-0.0021	2.50	PASS
				10.00	-4.5490	3.5334	-1.5593	-0.0025	0.0019	-0.0008	2.50	PASS
				20.00	-4.5061	2.1172	-2.6035	-0.0024	0.0011	-0.0014	2.50	PASS
				30.00	-5.9652	1.5020	-4.6206	-0.0032	0.0008	-0.0024	2.50	PASS
				40.00	-3.9911	-0.0429	-3.1328	-0.0022	0.0000	-0.0016	2.50	PASS
				50.00	-4.3774	-0.4005	-0.7582	-0.0024	-0.0002	-0.0004	2.50	PASS

Test Band: 25 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-3.2759	1.8024	-2.1601	-0.0018	0.0010	-0.0011	2.50	PASS
				NV	0.0429	-0.6294	-4.5633	0.0000	-0.0003	-0.0024	2.50	PASS
				HV	0.4148	0.5722	-4.0770	0.0002	0.0003	-0.0021	2.50	PASS
16QAM	25	0	NT	LV	-2.1172	0.5579	-2.9755	-0.0011	0.0003	-0.0016	2.50	PASS
				NV	-2.8610	0.1574	-2.5177	-0.0015	0.0001	-0.0013	2.50	PASS
				HV	-0.1144	2.7037	-1.3161	-0.0001	0.0014	-0.0007	2.50	PASS

Test Band: 25 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-0.2003	0.1431	-2.9898	-0.0001	0.0001	-0.0016	2.50	PASS
				-20.00	-1.1873	0.3719	-4.6635	-0.0006	0.0002	-0.0024	2.50	PASS
				-10.00	-1.7309	0.6723	-1.5879	-0.0009	0.0004	-0.0008	2.50	PASS
				0.00	-2.9898	-0.5007	-4.9782	-0.0016	-0.0003	-0.0026	2.50	PASS
				10.00	-2.8467	-0.2003	-2.2030	-0.0015	-0.0001	-0.0012	2.50	PASS
				20.00	-0.8011	-1.1444	-4.0627	-0.0004	-0.0006	-0.0021	2.50	PASS
				30.00	0.0715	0.4864	-4.3774	0.0000	0.0003	-0.0023	2.50	PASS
				40.00	-2.9755	-0.7868	-4.7207	-0.0016	-0.0004	-0.0025	2.50	PASS
16QAM	25	0	NV	50.00	-3.5906	0.6008	-2.5892	-0.0019	0.0003	-0.0014	2.50	PASS
				-30.00	0.2718	1.8597	-1.9026	0.0001	0.0010	-0.0010	2.50	PASS
				-20.00	-0.0715	0.3719	-4.3631	0.0000	0.0002	-0.0023	2.50	PASS
				-10.00	-0.9298	-0.7439	-2.5463	-0.0005	-0.0004	-0.0013	2.50	PASS
				0.00	-3.1757	-0.7725	-4.2629	-0.0017	-0.0004	-0.0022	2.50	PASS
				10.00	-2.8324	1.1587	-4.2200	-0.0015	0.0006	-0.0022	2.50	PASS
				20.00	-3.0184	1.2588	-2.1458	-0.0016	0.0007	-0.0011	2.50	PASS
				30.00	-2.0456	3.1328	-1.5736	-0.0011	0.0017	-0.0008	2.50	PASS
				40.00	-1.7881	0.3862	-4.8637	-0.0010	0.0002	-0.0025	2.50	PASS

				50.00	-2.8038	-0.5150	-3.3903	-0.0015	-0.0003	-0.0018	2.50	PASS
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Test Band: 25 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-1.4734	2.5463	-0.2146	-0.0008	0.0014	-0.0001	2.50	PASS
				NV	-3.0470	1.0300	-2.6464	-0.0016	0.0005	-0.0014	2.50	PASS
				HV	-3.6907	0.8583	-1.5593	-0.0020	0.0005	-0.0008	2.50	PASS
16QAM	50	0	NT	LV	-1.6308	-0.0572	-1.2875	-0.0009	0.0000	-0.0007	2.50	PASS
				NV	-2.3317	0.1860	-1.2588	-0.0013	0.0001	-0.0007	2.50	PASS
				HV	-3.1900	1.4019	0.0429	-0.0017	0.0007	0.0000	2.50	PASS

Test Band: 25 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-1.8024	0.1144	-2.3174	-0.0010	0.0001	-0.0012	2.50	PASS
				-20.00	-1.0014	1.8740	-1.6308	-0.0005	0.0010	-0.0009	2.50	PASS
				-10.00	-3.5048	0.9298	-3.4475	-0.0019	0.0005	-0.0018	2.50	PASS
				0.00	-1.6022	2.0599	-1.1158	-0.0009	0.0011	-0.0006	2.50	PASS
				10.00	-4.1199	1.9741	-3.0756	-0.0022	0.0010	-0.0016	2.50	PASS
				20.00	-3.6907	-1.3018	-1.8883	-0.0020	-0.0007	-0.0010	2.50	PASS
				30.00	-1.6165	-0.0429	-2.6464	-0.0009	0.0000	-0.0014	2.50	PASS
				40.00	-1.4591	-0.5007	-3.9196	-0.0008	-0.0003	-0.0021	2.50	PASS
				50.00	-3.9482	-0.8011	-3.3331	-0.0021	-0.0004	-0.0017	2.50	PASS
16QAM	50	0	NV	-30.00	-2.9182	1.8024	-3.2330	-0.0016	0.0010	-0.0017	2.50	PASS
				-20.00	-2.6178	3.1471	-1.6022	-0.0014	0.0017	-0.0008	2.50	PASS
				-10.00	-3.3045	3.5906	-1.4162	-0.0018	0.0019	-0.0007	2.50	PASS
				0.00	-0.6294	3.4761	-1.0729	-0.0003	0.0018	-0.0006	2.50	PASS
				10.00	-1.9312	2.6894	-2.4462	-0.0010	0.0014	-0.0013	2.50	PASS
				20.00	-3.3617	1.4448	-3.3331	-0.0018	0.0008	-0.0017	2.50	PASS
				30.00	-3.8481	1.0872	-3.4618	-0.0021	0.0006	-0.0018	2.50	PASS
				40.00	-1.2302	1.4591	-1.9884	-0.0007	0.0008	-0.0010	2.50	PASS
				50.00	-3.2187	1.5163	-2.4176	-0.0017	0.0008	-0.0013	2.50	PASS

Test Band: 25 15MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NT	LV	-4.4203	0.4292	-0.9012	-0.0024	0.0002	-0.0005	2.50	PASS
				NV	-5.2357	0.1001	-1.3161	-0.0028	0.0001	-0.0007	2.50	PASS
				HV	-5.1069	1.5450	-1.1301	-0.0027	0.0008	-0.0006	2.50	PASS
16QAM	75	0	NT	LV	-2.5320	-0.1717	-0.9155	-0.0014	-0.0001	-0.0005	2.50	PASS
				NV	-4.8494	0.1860	-1.4019	-0.0026	0.0001	-0.0007	2.50	PASS
				HV	-4.0913	0.3433	-1.1444	-0.0022	0.0002	-0.0006	2.50	PASS

Test Band: 25 15MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NV	-30.00	-4.4346	-1.6451	-0.0572	-0.0024	-0.0009	0.0000	2.50	PASS
				-20.00	-2.0885	-0.4578	0.0143	-0.0011	-0.0002	0.0000	2.50	PASS
				-10.00	-5.0640	-0.1860	0.2289	-0.0027	-0.0001	0.0001	2.50	PASS
				0.00	-5.4216	0.9298	-1.0443	-0.0029	0.0005	-0.0005	2.50	PASS
				10.00	-2.6894	-0.8297	-0.9871	-0.0014	-0.0004	-0.0005	2.50	PASS
				20.00	-5.6505	-1.4448	0.9584	-0.0030	-0.0008	0.0005	2.50	PASS
				30.00	-4.2486	-0.1717	-0.8154	-0.0023	-0.0001	-0.0004	2.50	PASS

16QAM	75	0	NV	40.00	-5.3215	0.8583	0.4005	-0.0029	0.0005	0.0002	2.50	PASS
				50.00	-4.2200	1.0014	-0.7439	-0.0023	0.0005	-0.0004	2.50	PASS
				-30.00	-3.7479	0.2718	0.8011	-0.0020	0.0001	0.0004	2.50	PASS
				-20.00	-4.4203	-1.1015	0.9441	-0.0024	-0.0006	0.0005	2.50	PASS
				-10.00	-2.9182	-1.8311	-0.5293	-0.0016	-0.0010	-0.0003	2.50	PASS
				0.00	-2.8181	-1.3018	1.8024	-0.0015	-0.0007	0.0009	2.50	PASS
				10.00	-1.0300	-1.0872	-0.3147	-0.0006	-0.0006	-0.0002	2.50	PASS
				20.00	-4.4632	-1.1158	1.1587	-0.0024	-0.0006	0.0006	2.50	PASS
				30.00	-5.5647	0.3004	-0.9871	-0.0030	0.0002	-0.0005	2.50	PASS
				40.00	-3.7479	1.6880	-1.2302	-0.0020	0.0009	-0.0006	2.50	PASS
				50.00	-4.1914	1.2588	1.3876	-0.0023	0.0007	0.0007	2.50	PASS

Test Band: 25 20MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NT	LV	0.9441	1.0729	1.6165	0.0005	0.0006	0.0008	2.50	PASS
				NV	1.2302	2.0742	0.5293	0.0007	0.0011	0.0003	2.50	PASS
				HV	1.5163	1.2159	-0.1144	0.0008	0.0006	-0.0001	2.50	PASS
16QAM	100	0	NT	LV	1.4877	-0.1287	1.6451	0.0008	-0.0001	0.0009	2.50	PASS
				NV	1.0443	0.9298	0.2003	0.0006	0.0005	0.0001	2.50	PASS
				HV	-0.9441	3.3760	1.0157	-0.0005	0.0018	0.0005	2.50	PASS

Test Band: 25 20MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NV	-30.00	0.0572	-1.3876	0.8440	0.0000	-0.0007	0.0004	2.50	PASS
				-20.00	-1.5163	-1.1444	0.2146	-0.0008	-0.0006	0.0001	2.50	PASS
				-10.00	-0.3862	-0.4005	-0.6723	-0.0002	-0.0002	-0.0004	2.50	PASS
				0.00	-0.6151	0.1287	1.4877	-0.0003	0.0001	0.0008	2.50	PASS
				10.00	0.5722	1.5020	0.0429	0.0003	0.0008	0.0000	2.50	PASS
				20.00	-0.9871	1.5593	-1.6022	-0.0005	0.0008	-0.0008	2.50	PASS
				30.00	0.9012	2.0027	0.3290	0.0005	0.0011	0.0002	2.50	PASS
				40.00	1.9884	1.7595	2.1601	0.0011	0.0009	0.0011	2.50	PASS
				50.00	1.6737	2.4176	-0.3576	0.0009	0.0013	-0.0002	2.50	PASS
16QAM	100	0	NV	-30.00	-0.7725	2.1887	1.1730	-0.0004	0.0012	0.0006	2.50	PASS
				-20.00	-0.4721	2.2173	1.3590	-0.0003	0.0012	0.0007	2.50	PASS
				-10.00	-0.2289	2.3031	0.1001	-0.0001	0.0012	0.0001	2.50	PASS
				0.00	1.5306	1.5163	-0.1287	0.0008	0.0008	-0.0001	2.50	PASS
				10.00	0.1144	3.0184	1.9026	0.0001	0.0016	0.0010	2.50	PASS
				20.00	-0.1431	2.9898	0.4578	-0.0001	0.0016	0.0002	2.50	PASS
				30.00	1.0872	2.6894	0.6437	0.0006	0.0014	0.0003	2.50	PASS
				40.00	2.5749	2.5320	1.2732	0.0014	0.0013	0.0007	2.50	PASS
				50.00	2.2316	2.1172	-0.2861	0.0012	0.0011	-0.0002	2.50	PASS

10. Frequency stability

10.1 Test Result

Test Band: 26a(814MHz-824MHz) 1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	-1.9312	-3.4475	-1.3876	-0.0024	-0.0042	-0.0017	2.50	PASS
				NV	-0.8869	-2.9325	-2.8753	-0.0011	-0.0036	-0.0035	2.50	PASS
				HV	-2.2888	-2.8896	-1.5593	-0.0028	-0.0035	-0.0019	2.50	PASS

16QAM	6	0	NT	LV	-0.9441	-0.8297	1.1158	-0.0012	-0.0010	0.0014	2.50	PASS
				NV	-1.4162	-0.2432	-0.2575	-0.0017	-0.0003	-0.0003	2.50	PASS
				HV	-0.5007	-2.9039	-0.0715	-0.0006	-0.0035	-0.0001	2.50	PASS

Test Band: 26a(814MHz-824MHz) 1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	-0.8869	-3.1757	0.1860	-0.0011	-0.0039	0.0002	2.50	PASS
				-20.00	-2.0170	-2.3031	0.7582	-0.0025	-0.0028	0.0009	2.50	PASS
				-10.00	-1.2588	-2.3174	0.3862	-0.0015	-0.0028	0.0005	2.50	PASS
				0.00	-0.7296	-3.9339	0.1717	-0.0009	-0.0048	0.0002	2.50	PASS
				10.00	0.0715	-3.8481	-0.3862	0.0001	-0.0047	-0.0005	2.50	PASS
				20.00	0.4148	-3.8052	-1.6165	0.0005	-0.0046	-0.0020	2.50	PASS
				30.00	-0.9298	-2.1029	-1.7452	-0.0011	-0.0026	-0.0021	2.50	PASS
				40.00	-0.9727	-2.3603	-2.8753	-0.0012	-0.0029	-0.0035	2.50	PASS
				50.00	0.0715	-2.2888	-1.3590	0.0001	-0.0028	-0.0017	2.50	PASS
16QAM	6	0	NV	-30.00	-0.4864	-2.2602	0.5722	-0.0006	-0.0028	0.0007	2.50	PASS
				-20.00	-1.4305	-2.9325	0.4578	-0.0018	-0.0036	0.0006	2.50	PASS
				-10.00	-0.4148	-2.3460	0.6580	-0.0005	-0.0029	0.0008	2.50	PASS
				0.00	-1.2732	-3.9053	0.8011	-0.0016	-0.0048	0.0010	2.50	PASS
				10.00	0.6723	-3.4618	-2.3746	0.0008	-0.0042	-0.0029	2.50	PASS
				20.00	0.4148	-3.4332	-2.1458	0.0005	-0.0042	-0.0026	2.50	PASS
				30.00	0.8869	-2.6035	-1.8311	0.0011	-0.0032	-0.0022	2.50	PASS
				40.00	-0.1287	-0.5722	-0.7582	-0.0002	-0.0007	-0.0009	2.50	PASS
				50.00	-2.8181	0.0572	1.1730	-0.0035	0.0001	0.0014	2.50	PASS

Test Band: 26a(814MHz-824MHz) 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	-2.4033	-1.1444	0.7582	-0.0029	-0.0014	0.0009	2.50	PASS
				NV	-0.0286	-0.7153	1.8168	0.0000	-0.0009	0.0022	2.50	PASS
				HV	0.3004	-0.0143	0.2289	0.0004	0.0000	0.0003	2.50	PASS
16QAM	15	0	NT	LV	0.1001	0.4721	-0.6008	0.0001	0.0006	-0.0007	2.50	PASS
				NV	0.7296	0.7010	-0.6294	0.0009	0.0009	-0.0008	2.50	PASS
				HV	-1.9598	-1.1301	-0.2861	-0.0024	-0.0014	-0.0003	2.50	PASS

Test Band: 26a(814MHz-824MHz) 3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	-0.2432	-0.9441	1.2016	-0.0003	-0.0012	0.0015	2.50	PASS
				-20.00	-2.3460	-0.8011	-0.4864	-0.0029	-0.0010	-0.0006	2.50	PASS
				-10.00	-2.8324	-0.6294	-1.8454	-0.0035	-0.0008	-0.0022	2.50	PASS
				0.00	-1.9169	-1.2445	1.3733	-0.0024	-0.0015	0.0017	2.50	PASS
				10.00	0.1001	-1.4591	1.2445	0.0001	-0.0018	0.0015	2.50	PASS
				20.00	-1.9455	-1.4591	1.3161	-0.0024	-0.0018	0.0016	2.50	PASS
				30.00	-0.2289	-1.7595	0.5865	-0.0003	-0.0021	0.0007	2.50	PASS
				40.00	-0.2575	-1.1730	0.0143	-0.0003	-0.0014	0.0000	2.50	PASS
				50.00	-1.2588	-0.4148	0.2146	-0.0015	-0.0005	0.0003	2.50	PASS
16QAM	15	0	NV	-30.00	-1.8597	-2.3603	-1.8168	-0.0023	-0.0029	-0.0022	2.50	PASS
				-20.00	-2.5606	-1.3304	-2.0885	-0.0031	-0.0016	-0.0025	2.50	PASS
				-10.00	0.3290	-1.1158	-1.9455	0.0004	-0.0014	-0.0024	2.50	PASS
				0.00	-0.8011	-2.1744	-1.8024	-0.0010	-0.0027	-0.0022	2.50	PASS
				10.00	0.3862	-1.4305	-1.3447	0.0005	-0.0017	-0.0016	2.50	PASS
				20.00	0.0286	-3.0184	-1.8168	0.0000	-0.0037	-0.0022	2.50	PASS
				30.00	0.2146	-2.7752	-1.4448	0.0003	-0.0034	-0.0018	2.50	PASS

				40.00	1.3876	-2.1887	-1.5450	0.0017	-0.0027	-0.0019	2.50	PASS
				50.00	0.5722	-2.6464	-1.0729	0.0007	-0.0032	-0.0013	2.50	PASS

Test Band: 26a(814MHz-824MHz) 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-0.2146	-1.1873	-0.7439	-0.0003	-0.0014	-0.0009	2.50	PASS
				NV	-0.5722	-0.1431	-2.4891	-0.0007	-0.0002	-0.0030	2.50	PASS
				HV	-0.3719	-0.0715	-1.3161	-0.0005	-0.0001	-0.0016	2.50	PASS
16QAM	25	0	NT	LV	-1.2732	-1.1587	1.1158	-0.0016	-0.0014	0.0014	2.50	PASS
				NV	-2.1887	-0.1431	0.3719	-0.0027	-0.0002	0.0005	2.50	PASS
				HV	-2.3460	-0.5293	-0.7868	-0.0029	-0.0006	-0.0010	2.50	PASS

Test Band: 26a(814MHz-824MHz) 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-1.6022	-0.0143	-2.3746	-0.0020	0.0000	-0.0029	2.50	PASS
				-20.00	0.2718	-0.3576	-2.7466	0.0003	-0.0004	-0.0033	2.50	PASS
				-10.00	-1.1587	-0.3004	-3.3331	-0.0014	-0.0004	-0.0041	2.50	PASS
				0.00	0.9441	-1.0729	-1.6737	0.0012	-0.0013	-0.0020	2.50	PASS
				10.00	1.6308	-1.4019	-2.9898	0.0020	-0.0017	-0.0036	2.50	PASS
				20.00	-1.4591	-2.1458	-1.0872	-0.0018	-0.0026	-0.0013	2.50	PASS
				30.00	-0.7010	-0.1574	-1.6880	-0.0009	-0.0002	-0.0021	2.50	PASS
				40.00	-0.2718	-1.3161	-2.0456	-0.0003	-0.0016	-0.0025	2.50	PASS
				50.00	0.8154	-1.4591	-1.1587	0.0010	-0.0018	-0.0014	2.50	PASS
16QAM	25	0	NV	-30.00	-3.0756	0.3719	-1.1730	-0.0038	0.0005	-0.0014	2.50	PASS
				-20.00	-2.2030	-1.4591	-2.2030	-0.0027	-0.0018	-0.0027	2.50	PASS
				-10.00	-2.4462	-1.0157	-1.9169	-0.0030	-0.0012	-0.0023	2.50	PASS
				0.00	-1.2302	-0.9012	-2.1744	-0.0015	-0.0011	-0.0026	2.50	PASS
				10.00	-2.2745	-0.5007	-2.2459	-0.0028	-0.0006	-0.0027	2.50	PASS
				20.00	0.3719	-0.4005	-2.1601	0.0005	-0.0005	-0.0026	2.50	PASS
				30.00	0.4005	-0.2003	-2.5177	0.0005	-0.0002	-0.0031	2.50	PASS
				40.00	1.2159	-0.5865	-1.8454	0.0015	-0.0007	-0.0022	2.50	PASS
				50.00	1.3161	0.0143	-1.9741	0.0016	0.0000	-0.0024	2.50	PASS

Test Band: 26a(814MHz-824MHz) 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	/	-2.9039	/	/	-0.0035	/	2.50	PASS
				NV	/	-2.7609	/	/	-0.0034	/	2.50	PASS
				HV	/	-2.2459	/	/	-0.0027	/	2.50	PASS
16QAM	50	0	NT	LV	/	-2.0027	/	/	-0.0024	/	2.50	PASS
				NV	/	-0.6151	/	/	-0.0008	/	2.50	PASS
				HV	/	-2.5606	/	/	-0.0031	/	2.50	PASS

Test Band: 26a(814MHz-824MHz) 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	/	-1.2159	/	/	-0.0015	/	2.50	PASS
				-20.00	/	-1.1444	/	/	-0.0014	/	2.50	PASS
				-10.00	/	-1.0443	/	/	-0.0013	/	2.50	PASS
				0.00	/	-0.4864	/	/	-0.0006	/	2.50	PASS
				10.00	/	-3.8195	/	/	-0.0047	/	2.50	PASS
				20.00	/	-3.3331	/	/	-0.0041	/	2.50	PASS

				30.00	/	-2.6321	/	/	-0.0032	/	2.50	PASS
				40.00	/	-1.0729	/	/	-0.0013	/	2.50	PASS
				50.00	/	-0.6294	/	/	-0.0008	/	2.50	PASS
16QAM	50	0	NV	-30.00	/	-3.3760	/	/	-0.0041	/	2.50	PASS
				-20.00	/	-3.6621	/	/	-0.0045	/	2.50	PASS
				-10.00	/	-4.0913	/	/	-0.0050	/	2.50	PASS
				0.00	/	-4.2486	/	/	-0.0052	/	2.50	PASS
				10.00	/	-4.3488	/	/	-0.0053	/	2.50	PASS
				20.00	/	-2.4462	/	/	-0.0030	/	2.50	PASS
				30.00	/	-2.6321	/	/	-0.0032	/	2.50	PASS
				40.00	/	-2.5463	/	/	-0.0031	/	2.50	PASS
				50.00	/	-2.8753	/	/	-0.0035	/	2.50	PASS

11. Frequency stability

11.1 Test Result

Test Band: 26b(824MHz-849MHz) _1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	-0.6294	-0.3719	-1.4591	-0.0008	-0.0004	-0.0017	2.50	PASS
				NV	-2.8610	-0.5722	-1.3447	-0.0035	-0.0007	-0.0016	2.50	PASS
				HV	-2.8181	-1.5450	1.5736	-0.0034	-0.0018	0.0019	2.50	PASS
16QAM	6	0	NT	LV	0.1001	-2.5606	0.9012	0.0001	-0.0031	0.0011	2.50	PASS
				NV	0.6151	-1.8454	0.9871	0.0007	-0.0022	0.0012	2.50	PASS
				HV	0.8583	-2.2602	1.0157	0.0010	-0.0027	0.0012	2.50	PASS

Test Band: 26b(824MHz-849MHz) _ 1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	-2.3174	0.6723	0.2575	-0.0028	0.0008	0.0003	2.50	PASS
				-20.00	-1.8454	2.1029	1.1444	-0.0022	0.0025	0.0013	2.50	PASS
				-10.00	-2.7323	1.6880	1.4448	-0.0033	0.0020	0.0017	2.50	PASS
				0.00	-3.1328	1.3161	1.2302	-0.0038	0.0016	0.0015	2.50	PASS
				10.00	-1.5879	0.0286	0.8583	-0.0019	0.0000	0.0010	2.50	PASS
				20.00	-3.0470	-1.5450	0.4721	-0.0037	-0.0018	0.0006	2.50	PASS
				30.00	-0.6723	-2.6321	1.6022	-0.0008	-0.0031	0.0019	2.50	PASS
				40.00	-1.5450	0.4864	0.2289	-0.0019	0.0006	0.0003	2.50	PASS
				50.00	0.4721	0.0429	-1.6022	0.0006	0.0001	-0.0019	2.50	PASS
16QAM	6	0	NV	-30.00	-0.4005	0.0286	-0.2289	-0.0005	0.0000	-0.0003	2.50	PASS
				-20.00	0.1144	0.8583	-1.7452	0.0001	0.0010	-0.0021	2.50	PASS
				-10.00	0.2718	1.3161	-0.8297	0.0003	0.0016	-0.0010	2.50	PASS
				0.00	0.4578	1.3304	-0.6437	0.0006	0.0016	-0.0008	2.50	PASS
				10.00	0.6294	0.3719	-0.2289	0.0008	0.0004	-0.0003	2.50	PASS
				20.00	-0.2432	-0.7439	-0.4721	-0.0003	-0.0009	-0.0006	2.50	PASS
				30.00	-0.2861	0.0858	-0.5865	-0.0003	0.0001	-0.0007	2.50	PASS
				40.00	-0.9298	0.8154	-0.8297	-0.0011	0.0010	-0.0010	2.50	PASS
				50.00	-0.8011	-0.4578	-1.0872	-0.0010	-0.0005	-0.0013	2.50	PASS

Test Band: 26b(824MHz-849MHz) 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	-1.4019	-1.3733	-1.4305	-0.0017	-0.0016	-0.0017	2.50	PASS
				NV	-2.3031	1.3447	-0.4148	-0.0028	0.0016	-0.0005	2.50	PASS

				HV	-1.7881	-0.2289	-2.2459	-0.0022	-0.0003	-0.0027	2.50	PASS
16QAM	15	0	NT	LV	-2.5177	-1.4591	-0.7725	-0.0030	-0.0017	-0.0009	2.50	PASS
				NV	-2.1601	-1.4591	0.2003	-0.0026	-0.0017	0.0002	2.50	PASS
				HV	-1.4019	-1.1587	-1.5163	-0.0017	-0.0014	-0.0018	2.50	PASS

Test Band: 26b(824MHz-849MHz) 3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	-1.8024	0.1574	-3.7193	-0.0022	0.0002	-0.0044	2.50	PASS
				-20.00	-2.4319	0.2575	-2.3890	-0.0029	0.0003	-0.0028	2.50	PASS
				-10.00	-1.6594	0.4721	-2.9325	-0.0020	0.0006	-0.0035	2.50	PASS
				0.00	-2.4605	0.0858	-0.9298	-0.0030	0.0001	-0.0011	2.50	PASS
				10.00	-2.6894	-0.4721	-0.6008	-0.0033	-0.0006	-0.0007	2.50	PASS
				20.00	-2.1172	-0.3433	-1.4877	-0.0026	-0.0004	-0.0018	2.50	PASS
				30.00	-1.7452	0.4148	-1.6022	-0.0021	0.0005	-0.0019	2.50	PASS
				40.00	-0.7439	-0.9012	-0.0858	-0.0009	-0.0011	-0.0001	2.50	PASS
				50.00	-2.3890	0.3433	-0.7296	-0.0029	0.0004	-0.0009	2.50	PASS
16QAM	15	0	NV	-30.00	-1.1730	0.4148	-2.1458	-0.0014	0.0005	-0.0025	2.50	PASS
				-20.00	-1.0443	0.3862	-2.8181	-0.0013	0.0005	-0.0033	2.50	PASS
				-10.00	-1.4734	0.6580	-2.5606	-0.0018	0.0008	-0.0030	2.50	PASS
				0.00	-1.8883	0.4435	-2.3174	-0.0023	0.0005	-0.0027	2.50	PASS
				10.00	-2.7037	0.2718	-1.9312	-0.0033	0.0003	-0.0023	2.50	PASS
				20.00	-2.7609	0.4578	-2.1887	-0.0033	0.0005	-0.0026	2.50	PASS
				30.00	-1.4162	0.4864	-1.9312	-0.0017	0.0006	-0.0023	2.50	PASS
				40.00	-2.0313	0.7868	-2.0456	-0.0025	0.0009	-0.0024	2.50	PASS
				50.00	-1.8024	0.8297	-1.4019	-0.0022	0.0010	-0.0017	2.50	PASS

Test Band: 26b(824MHz-849MHz) 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-1.6165	-2.5034	0.2861	-0.0020	-0.0030	0.0003	2.50	PASS
				NV	-2.1029	-1.2159	0.6151	-0.0025	-0.0015	0.0007	2.50	PASS
				HV	-2.6464	0.4721	-1.0586	-0.0032	0.0006	-0.0013	2.50	PASS
16QAM	25	0	NT	LV	-3.8767	-2.0599	1.1587	-0.0047	-0.0025	0.0014	2.50	PASS
				NV	-3.3045	-1.0729	0.7582	-0.0040	-0.0013	0.0009	2.50	PASS
				HV	-3.0327	-1.2159	-1.6308	-0.0037	-0.0015	-0.0019	2.50	PASS

Test Band: 26b(824MHz-849MHz) 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-3.7050	1.0300	-0.0715	-0.0045	0.0012	-0.0001	2.50	PASS
				-20.00	-2.6894	-2.0599	-0.1287	-0.0033	-0.0025	-0.0002	2.50	PASS
				-10.00	-0.8440	0.0858	-0.5579	-0.0010	0.0001	-0.0007	2.50	PASS
				0.00	-2.0599	-0.3719	-0.5579	-0.0025	-0.0004	-0.0007	2.50	PASS
				10.00	-3.1185	-2.7180	-1.3447	-0.0038	-0.0032	-0.0016	2.50	PASS
				20.00	-3.1471	-2.9469	-1.4877	-0.0038	-0.0035	-0.0018	2.50	PASS
				30.00	-0.7582	-2.4033	-1.9884	-0.0009	-0.0029	-0.0023	2.50	PASS
				40.00	-0.3433	-1.6594	0.5150	-0.0004	-0.0020	0.0006	2.50	PASS
				50.00	-0.5293	-1.7595	0.6437	-0.0006	-0.0021	0.0008	2.50	PASS
16QAM	25	0	NV	-30.00	-3.1042	-1.6451	-0.6008	-0.0038	-0.0020	-0.0007	2.50	PASS
				-20.00	-4.2057	0.4721	1.3161	-0.0051	0.0006	0.0016	2.50	PASS
				-10.00	-2.8896	-0.4005	2.1744	-0.0035	-0.0005	0.0026	2.50	PASS
				0.00	-2.0885	0.3004	0.9584	-0.0025	0.0004	0.0011	2.50	PASS
				10.00	-3.0184	0.4435	0.9584	-0.0037	0.0005	0.0011	2.50	PASS
				20.00	-0.5150	0.9727	1.2016	-0.0006	0.0012	0.0014	2.50	PASS

				30.00	-1.3876	1.1873	1.5736	-0.0017	0.0014	0.0019	2.50	PASS
				40.00	0.3862	1.0443	1.6737	0.0005	0.0012	0.0020	2.50	PASS
				50.00	-0.6294	-0.1717	1.5306	-0.0008	-0.0002	0.0018	2.50	PASS

Test Band: 26b(824MHz-849MHz) 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	-2.1029	-1.4591	0.2575	-0.0025	-0.0017	0.0003	2.50	PASS
				NV	-2.8753	-2.2745	-0.5007	-0.0035	-0.0027	-0.0006	2.50	PASS
				HV	-0.8297	-1.6737	-2.2602	-0.0010	-0.0020	-0.0027	2.50	PASS
16QAM	50	0	NT	LV	0.5150	1.1587	-1.9455	0.0006	0.0014	-0.0023	2.50	PASS
				NV	0.8726	0.0572	0.0000	0.0011	0.0001	0.0000	2.50	PASS
				HV	-0.7868	-1.6451	1.0157	-0.0009	-0.0020	0.0012	2.50	PASS

Test Band: 26b(824MHz-849MHz) 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-0.2289	-2.0456	-2.2459	-0.0003	-0.0024	-0.0027	2.50	PASS
				-20.00	-2.0027	-2.4033	-2.4605	-0.0024	-0.0029	-0.0029	2.50	PASS
				-10.00	-0.3862	-2.5463	-2.5606	-0.0005	-0.0030	-0.0030	2.50	PASS
				0.00	-2.0027	-2.1029	-2.7466	-0.0024	-0.0025	-0.0033	2.50	PASS
				10.00	-2.3890	-2.1315	-2.6321	-0.0029	-0.0025	-0.0031	2.50	PASS
				20.00	-0.7010	-1.8168	-1.3447	-0.0008	-0.0022	-0.0016	2.50	PASS
				30.00	0.5579	0.3576	-1.9598	0.0007	0.0004	-0.0023	2.50	PASS
				40.00	-1.5020	0.3576	-1.8597	-0.0018	0.0004	-0.0022	2.50	PASS
				50.00	-0.0715	-0.0572	-1.4877	-0.0001	-0.0001	-0.0018	2.50	PASS
16QAM	50	0	NV	-30.00	-0.0858	-1.6594	-0.9871	-0.0001	-0.0020	-0.0012	2.50	PASS
				-20.00	0.4005	-1.0586	-0.3433	0.0005	-0.0013	-0.0004	2.50	PASS
				-10.00	-1.4162	-0.8440	-1.5736	-0.0017	-0.0010	-0.0019	2.50	PASS
				0.00	-1.5593	-0.6437	-0.5007	-0.0019	-0.0008	-0.0006	2.50	PASS
				10.00	-0.2289	-1.8168	-1.8454	-0.0003	-0.0022	-0.0022	2.50	PASS
				20.00	0.1144	-3.0470	-1.8740	0.0001	-0.0036	-0.0022	2.50	PASS
				30.00	0.6008	-3.3331	-2.6894	0.0007	-0.0040	-0.0032	2.50	PASS
				40.00	-2.3317	-2.3174	-1.5593	-0.0028	-0.0028	-0.0018	2.50	PASS
				50.00	-1.2159	-2.7180	-0.2289	-0.0015	-0.0032	-0.0003	2.50	PASS

12. Frequency stability

12.1 Test Result

Test Band: 26c(814MHz-849MHz) 15MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NT	LV	0.5722	1.0872	-3.0899	0.0007	0.0013	-0.0037	2.50	PASS
				NV	-0.1860	1.2588	-1.5593	-0.0002	0.0015	-0.0019	2.50	PASS
				HV	-0.8011	0.3147	0.3719	-0.0010	0.0004	0.0004	2.50	PASS
16QAM	75	0	NT	LV	0.2146	-0.6294	-1.3161	0.0003	-0.0008	-0.0016	2.50	PASS
				NV	1.0157	-1.7595	-0.1144	0.0012	-0.0021	-0.0001	2.50	PASS
				HV	-0.7725	-1.5593	0.0429	-0.0009	-0.0019	0.0001	2.50	PASS

Test Band: 26c(814MHz-849MHz) 15MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		

QPSK	75	0	NV	-30.00	-0.6151	0.4864	-2.0456	-0.0007	0.0006	-0.0024	2.50	PASS
				-20.00	-1.6308	-2.0742	-1.5736	-0.0020	-0.0025	-0.0019	2.50	PASS
				-10.00	-2.7609	-0.5865	-1.9026	-0.0034	-0.0007	-0.0023	2.50	PASS
				0.00	-3.4046	0.1574	-2.0885	-0.0041	0.0002	-0.0025	2.50	PASS
				10.00	-2.2173	-2.4033	-2.4033	-0.0027	-0.0029	-0.0029	2.50	PASS
				20.00	-1.6594	0.4578	-2.5320	-0.0020	0.0006	-0.0030	2.50	PASS
				30.00	-2.1744	1.0729	-3.0327	-0.0026	0.0013	-0.0036	2.50	PASS
				40.00	-0.5007	1.2875	-2.4891	-0.0006	0.0015	-0.0030	2.50	PASS
				50.00	-0.8011	-0.2861	-2.7466	-0.0010	-0.0003	-0.0033	2.50	PASS
16QAM	75	0	NV	-30.00	-0.6866	-1.6308	-1.2016	-0.0008	-0.0020	-0.0014	2.50	PASS
				-20.00	-1.4877	-1.0729	-2.3317	-0.0018	-0.0013	-0.0028	2.50	PASS
				-10.00	-1.3447	-1.4877	-2.2888	-0.0016	-0.0018	-0.0027	2.50	PASS
				0.00	-1.5020	0.7439	-1.0872	-0.0018	0.0009	-0.0013	2.50	PASS
				10.00	1.3304	-0.0429	-2.7895	0.0016	-0.0001	-0.0033	2.50	PASS
				20.00	0.5436	1.3733	-2.2602	0.0007	0.0017	-0.0027	2.50	PASS
				30.00	1.1444	0.9298	-1.8168	0.0014	0.0011	-0.0022	2.50	PASS
				40.00	-0.4148	0.1431	-0.4435	-0.0005	0.0002	-0.0005	2.50	PASS
				50.00	0.6580	-1.9026	-0.3576	0.0008	-0.0023	-0.0004	2.50	PASS

13. Frequency stability

13.1 Test Result

Test Band: 41 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-2.6751	9.2268	9.8276	-0.0011	0.0036	0.0037	2.50	PASS
				NV	4.8351	8.4829	-0.1717	0.0019	0.0033	-0.0001	2.50	PASS
				HV	5.3501	7.4387	-3.3188	0.0021	0.0029	-0.0012	2.50	PASS
16QAM	25	0	NT	LV	-1.4448	7.4530	8.0538	-0.0006	0.0029	0.0030	2.50	PASS
				NV	6.5947	9.9993	9.6703	0.0026	0.0039	0.0036	2.50	PASS
				HV	-0.8726	-1.3733	5.6076	-0.0003	-0.0005	0.0021	2.50	PASS

Test Band: 41 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-0.8726	7.1383	-1.6451	-0.0003	0.0028	-0.0006	2.50	PASS
				-20.00	7.4530	-0.1001	6.9523	0.0030	0.0000	0.0026	2.50	PASS
				-10.00	5.9795	-2.7609	9.2411	0.0024	-0.0011	0.0034	2.50	PASS
				0.00	5.9366	-1.2302	9.3412	0.0024	-0.0005	0.0035	2.50	PASS
				10.00	7.0810	6.0081	8.4257	0.0028	0.0023	0.0031	2.50	PASS
				20.00	4.6778	-2.1172	-2.5034	0.0019	-0.0008	-0.0009	2.50	PASS
				30.00	0.6723	-3.8910	7.8535	0.0003	-0.0015	0.0029	2.50	PASS
				40.00	6.5947	-1.9169	9.4557	0.0026	-0.0007	0.0035	2.50	PASS
				50.00	8.8978	4.3631	11.0578	0.0036	0.0017	0.0041	2.50	PASS
16QAM	25	0	NV	-30.00	-3.7909	9.8419	8.4972	-0.0015	0.0038	0.0032	2.50	PASS
				-20.00	9.0122	-0.6437	10.1137	0.0036	-0.0002	0.0038	2.50	PASS
				-10.00	-4.8780	-1.2732	10.5000	-0.0020	-0.0005	0.0039	2.50	PASS
				0.00	8.8263	10.0422	0.4435	0.0035	0.0039	0.0002	2.50	PASS
				10.00	8.8406	6.2370	11.3297	0.0035	0.0024	0.0042	2.50	PASS
				20.00	-1.9884	-1.4591	-4.7779	-0.0008	-0.0006	-0.0018	2.50	PASS
				30.00	7.3814	-1.4877	-1.1015	0.0030	-0.0006	-0.0004	2.50	PASS
				40.00	4.8494	-4.3631	11.9162	0.0019	-0.0017	0.0044	2.50	PASS
				50.00	-4.5204	-2.8753	7.7105	-0.0018	-0.0011	0.0029	2.50	PASS

Test Band: 41 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	0.1860	9.0265	-5.0211	0.0001	0.0035	-0.0019	2.50	PASS
				NV	7.9823	-0.7439	-5.6791	0.0032	-0.0003	-0.0021	2.50	PASS
				HV	-1.6737	7.3814	5.8365	-0.0007	0.0028	0.0022	2.50	PASS
16QAM	50	0	NT	LV	10.9291	11.3154	7.6962	0.0044	0.0044	0.0029	2.50	PASS
				NV	-1.3018	6.8951	7.4244	-0.0005	0.0027	0.0028	2.50	PASS
				HV	0.2003	0.1431	-4.6778	0.0001	0.0001	-0.0017	2.50	PASS

Test Band: 41 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	-1.1015	8.4400	3.5763	-0.0004	0.0033	0.0013	2.50	PASS
				-20.00	0.8154	9.3555	5.7507	0.0003	0.0036	0.0021	2.50	PASS
				-10.00	10.5858	9.9564	-4.4632	0.0042	0.0038	-0.0017	2.50	PASS
				0.00	-0.7725	9.1124	-4.8351	-0.0003	0.0035	-0.0018	2.50	PASS
				10.00	10.9005	9.9278	5.3501	0.0044	0.0038	0.0020	2.50	PASS
				20.00	-0.7725	-1.6880	4.9782	-0.0003	-0.0007	0.0019	2.50	PASS
				30.00	-3.6335	-0.1717	7.0667	-0.0015	-0.0001	0.0026	2.50	PASS
				40.00	10.6001	10.2997	-4.9067	0.0042	0.0040	-0.0018	2.50	PASS
				50.00	0.9155	7.7248	-5.6362	0.0004	0.0030	-0.0021	2.50	PASS
16QAM	50	0	NV	-30.00	10.7145	-2.3031	4.6492	0.0043	-0.0009	0.0017	2.50	PASS
				-20.00	5.6934	-0.4578	4.0483	0.0023	-0.0002	0.0015	2.50	PASS
				-10.00	11.5442	0.0858	-9.5272	0.0046	0.0000	-0.0035	2.50	PASS
				0.00	2.0170	6.8235	-0.5150	0.0008	0.0026	-0.0002	2.50	PASS
				10.00	12.4884	8.7547	-3.0184	0.0050	0.0034	-0.0011	2.50	PASS
				20.00	-0.5436	-0.5436	4.6349	-0.0002	-0.0002	0.0017	2.50	PASS
				30.00	-0.1717	8.3542	-3.4046	-0.0001	0.0032	-0.0013	2.50	PASS
				40.00	-2.3317	13.1321	3.6907	-0.0009	0.0051	0.0014	2.50	PASS
				50.00	1.3876	8.3256	-2.9325	0.0006	0.0032	-0.0011	2.50	PASS

Test Band: 41 15MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NT	LV	0.0143	9.5844	3.1614	0.0000	0.0037	0.0012	2.50	PASS
				NV	-4.7493	7.1955	0.2146	-0.0019	0.0028	0.0001	2.50	PASS
				HV	-5.6648	-3.0327	-0.9012	-0.0023	-0.0012	-0.0003	2.50	PASS
16QAM	75	0	NT	LV	2.1458	7.7677	-0.7439	0.0009	0.0030	-0.0003	2.50	PASS
				NV	0.7582	-1.6165	-0.8440	0.0003	-0.0006	-0.0003	2.50	PASS
				HV	-0.3433	-0.8726	10.5143	-0.0001	-0.0003	0.0039	2.50	PASS

Test Band: 41 15MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	75	0	NV	-30.00	-6.2370	8.9264	0.4148	-0.0025	0.0034	0.0002	2.50	PASS
				-20.00	0.1001	9.6989	-0.1287	0.0000	0.0037	0.0000	2.50	PASS
				-10.00	-5.9080	8.1110	0.8583	-0.0024	0.0031	0.0003	2.50	PASS
				0.00	-6.2799	-1.3876	4.7779	-0.0025	-0.0005	0.0018	2.50	PASS
				10.00	-8.1253	-1.7309	7.9823	-0.0032	-0.0007	0.0030	2.50	PASS
				20.00	-4.5061	9.3555	1.1730	-0.0018	0.0036	0.0004	2.50	PASS
				30.00	-6.2227	-1.7309	-1.5879	-0.0025	-0.0007	-0.0006	2.50	PASS
				40.00	-2.3031	7.1383	7.8964	-0.0009	0.0028	0.0029	2.50	PASS
				50.00	-6.7520	9.4843	-1.2875	-0.0027	0.0037	-0.0005	2.50	PASS
16QAM	75	0	NV	-30.00	-5.7936	-2.6321	-0.7296	-0.0023	-0.0010	-0.0003	2.50	PASS

				-20.00	2.0599	-1.1301	0.5436	0.0008	-0.0004	0.0002	2.50	PASS
				-10.00	2.3460	-1.5306	1.3733	0.0009	-0.0006	0.0005	2.50	PASS
				0.00	-6.0940	10.4141	8.8406	-0.0024	0.0040	0.0033	2.50	PASS
				10.00	-6.4373	10.8719	-1.3304	-0.0026	0.0042	-0.0005	2.50	PASS
				20.00	0.4435	9.6416	-1.8024	0.0002	0.0037	-0.0007	2.50	PASS
				30.00	-3.6907	8.9264	0.4721	-0.0015	0.0034	0.0002	2.50	PASS
				40.00	3.3760	7.5674	-2.2745	0.0013	0.0029	-0.0008	2.50	PASS
				50.00	1.9169	-1.6737	1.7023	0.0008	-0.0006	0.0006	2.50	PASS

Test Band: 41 20MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NT	LV	6.9094	10.5286	-1.4877	0.0028	0.0041	-0.0006	2.50	PASS
				NV	7.7534	9.4414	2.3746	0.0031	0.0036	0.0009	2.50	PASS
				HV	-1.8454	7.7534	-1.7023	-0.0007	0.0030	-0.0006	2.50	PASS
16QAM	100	0	NT	LV	7.4673	9.0551	-1.7023	0.0030	0.0035	-0.0006	2.50	PASS
				NV	-0.1144	8.8835	-2.2602	0.0000	0.0034	-0.0008	2.50	PASS
				HV	-0.9871	-0.5865	3.3903	-0.0004	-0.0002	0.0013	2.50	PASS

Test Band: 41 20MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NV	-30.00	6.2084	-2.0027	1.0157	0.0025	-0.0008	0.0004	2.50	PASS
				-20.00	-1.9741	7.8249	-2.8753	-0.0008	0.0030	-0.0011	2.50	PASS
				-10.00	7.5388	9.7847	3.9053	0.0030	0.0038	0.0015	2.50	PASS
				0.00	8.1825	-1.0872	3.8767	0.0033	-0.0004	0.0014	2.50	PASS
				10.00	7.4530	7.2241	3.8052	0.0030	0.0028	0.0014	2.50	PASS
				20.00	-1.8024	8.7118	-3.0470	-0.0007	0.0034	-0.0011	2.50	PASS
				30.00	-2.3031	-0.8869	-0.7010	-0.0009	-0.0003	-0.0003	2.50	PASS
				40.00	-2.2030	-1.8597	4.8923	-0.0009	-0.0007	0.0018	2.50	PASS
				50.00	9.2268	-1.5879	-4.4918	0.0037	-0.0006	-0.0017	2.50	PASS
16QAM	100	0	NV	-30.00	9.0694	9.6130	-1.7738	0.0036	0.0037	-0.0007	2.50	PASS
				-20.00	9.3126	9.3126	3.2043	0.0037	0.0036	0.0012	2.50	PASS
				-10.00	7.5102	7.8392	-4.2486	0.0030	0.0030	-0.0016	2.50	PASS
				0.00	7.0667	-1.6022	-1.3447	0.0028	-0.0006	-0.0005	2.50	PASS
				10.00	-1.5736	-1.9455	-2.8896	-0.0006	-0.0008	-0.0011	2.50	PASS
				20.00	-2.5892	9.1410	-2.2030	-0.0010	0.0035	-0.0008	2.50	PASS
				30.00	0.1287	-3.5334	-3.8195	0.0001	-0.0014	-0.0014	2.50	PASS
				40.00	-2.8896	9.1124	-2.3460	-0.0012	0.0035	-0.0009	2.50	PASS
				50.00	9.0981	7.5960	2.8753	0.0036	0.0029	0.0011	2.50	PASS

Note: All modes have been tested, only record the worst test result.