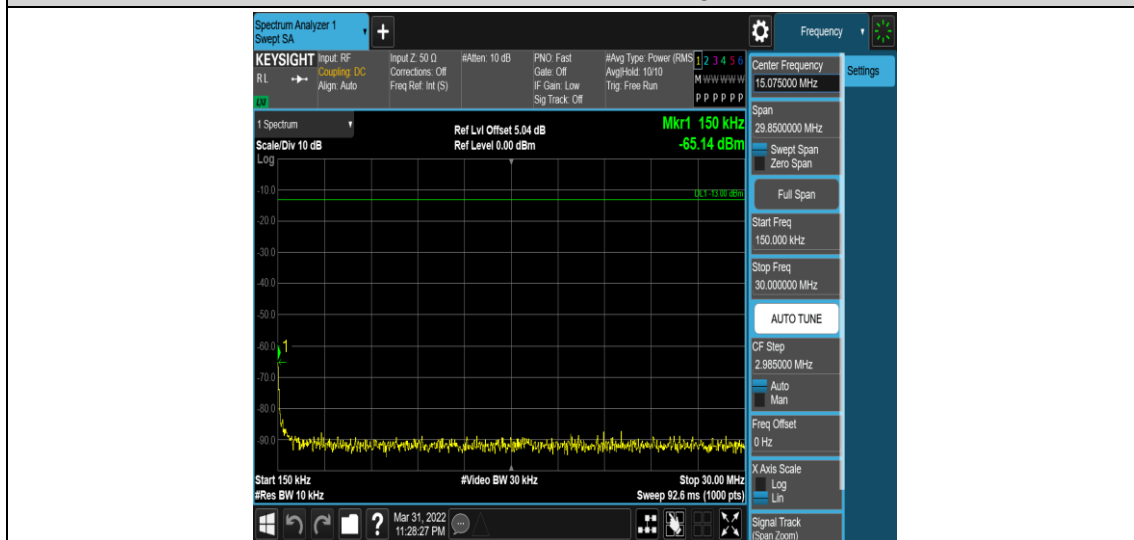




Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



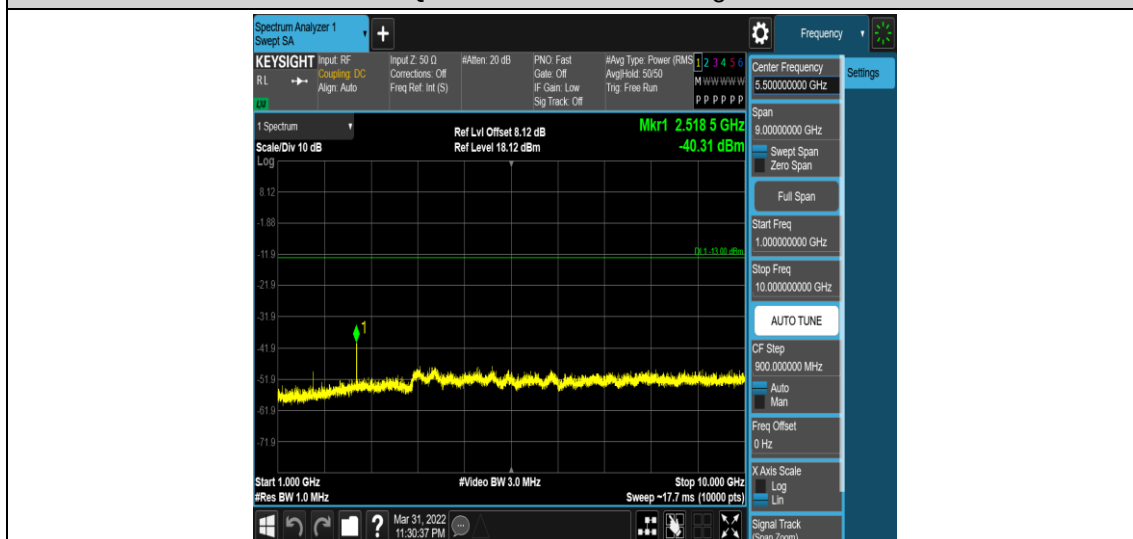
Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



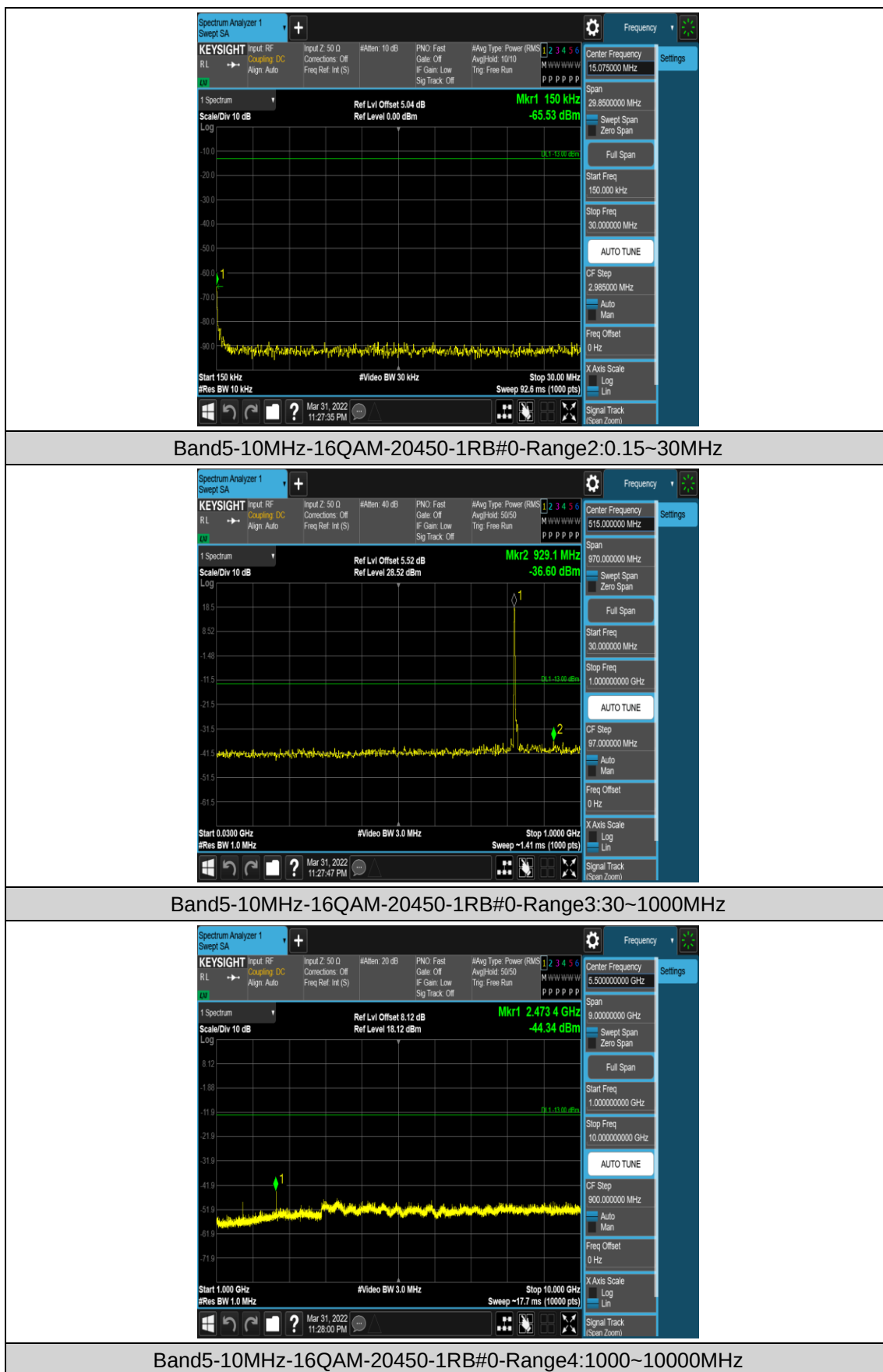
Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



Band5-10MHz-16QAM-20450-1RB#0-Range1:0.009~0.15MHz



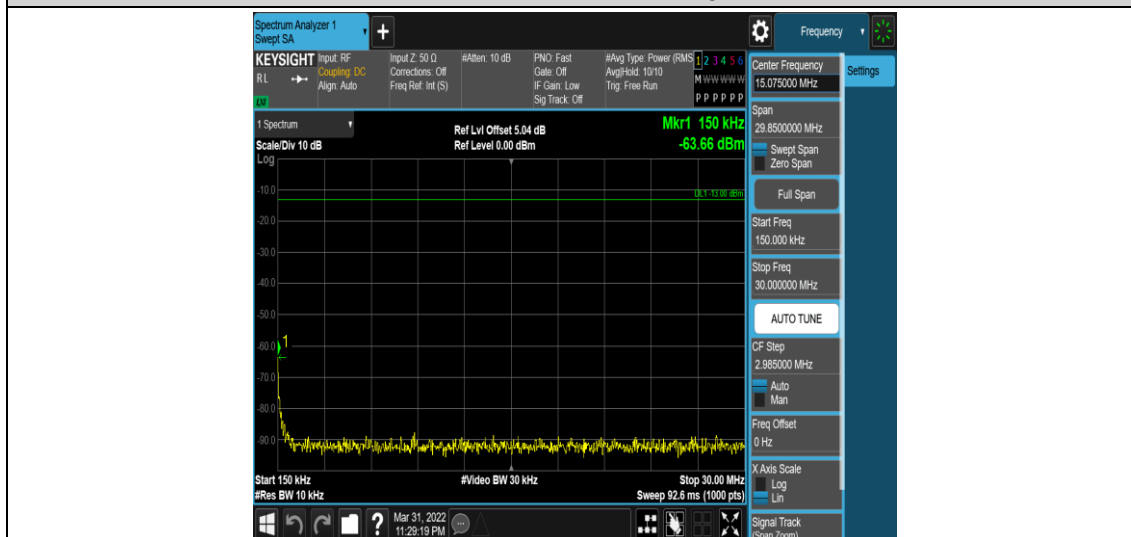
Band5-10MHz-16QAM-20450-1RB#0-Range2:0.15~30MHz

Band5-10MHz-16QAM-20450-1RB#0-Range3:30~1000MHz

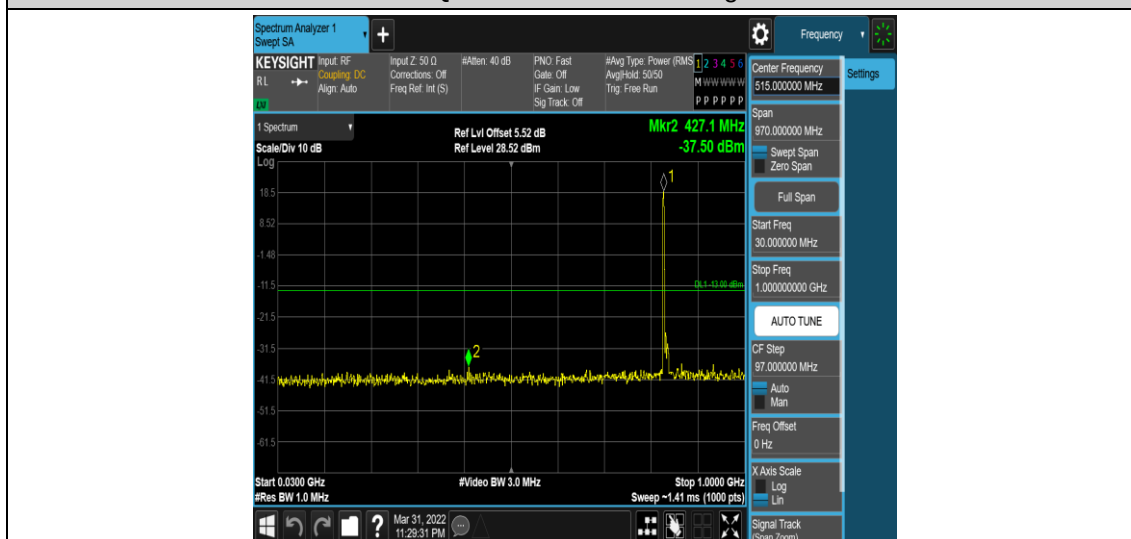
Band5-10MHz-16QAM-20450-1RB#0-Range4:1000~10000MHz



Band5-10MHz-16QAM-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-16QAM-20525-1RB#0-Range2:0.15~30MHz



Band5-10MHz-16QAM-20525-1RB#0-Range3:30~1000MHz



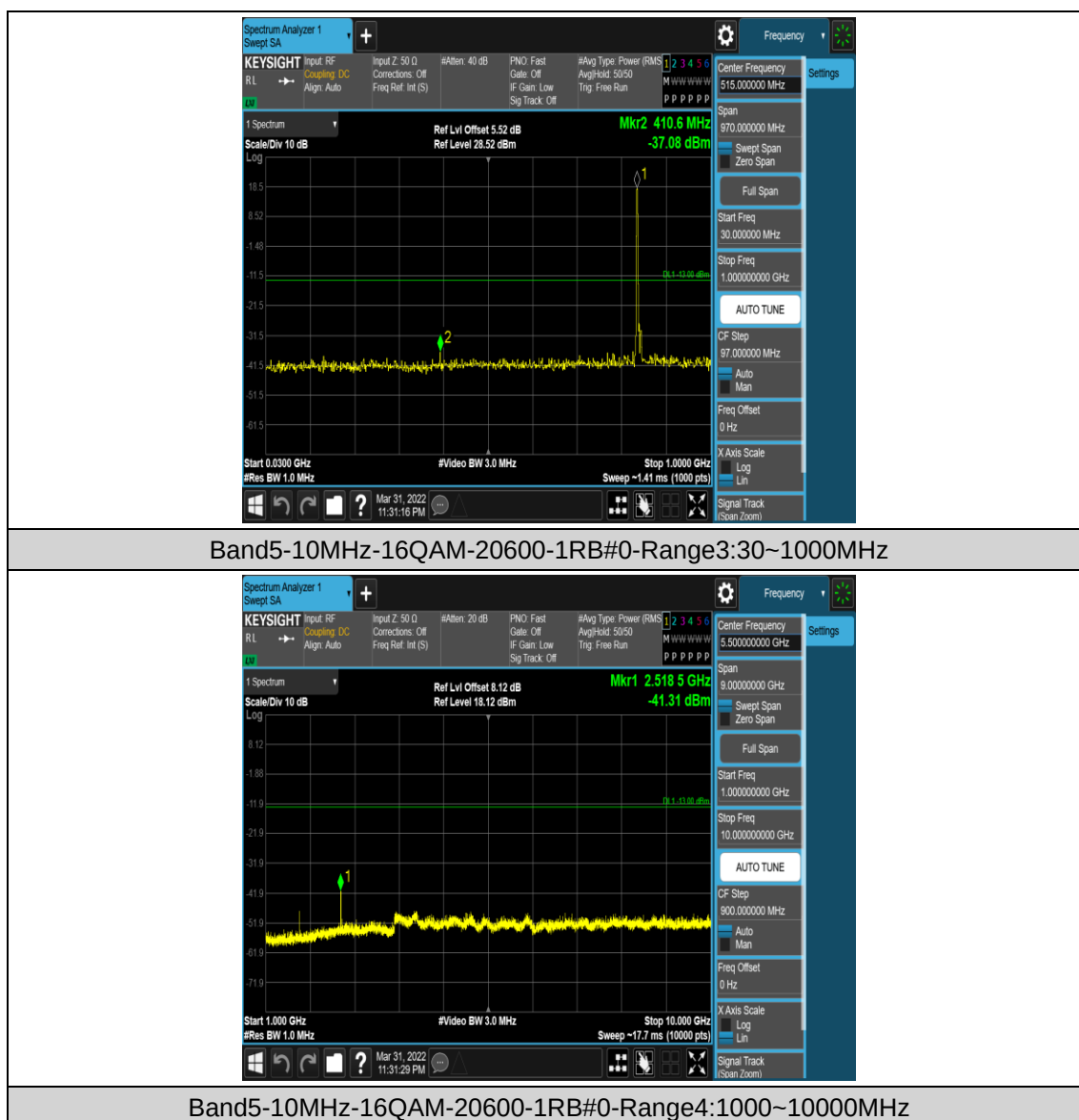
Band5-10MHz-16QAM-20525-1RB#0-Range4:1000~10000MHz



Band5-10MHz-16QAM-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-16QAM-20600-1RB#0-Range2:0.15~30MHz



Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	VL	NT	1.14	0.001382	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VN	NT	6.65	0.008064	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VH	NT	6.74	0.008173	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	5.56	0.006647	±2.5	PASS

Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	4.84	0.005786	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	-2.59	-0.003096	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VL	NT	-4.99	-0.005882	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VN	NT	4.16	0.004904	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VH	NT	2.30	0.002711	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VL	NT	-3.86	-0.004680	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VN	NT	-1.72	-0.002086	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VH	NT	1.93	0.002340	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VL	NT	3.66	0.004375	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VN	NT	4.28	0.005117	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VH	NT	1.09	0.001303	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VL	NT	-2.50	-0.002947	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VN	NT	3.50	0.004126	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VH	NT	-2.88	-0.003395	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VL	NT	-4.16	-0.005039	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VN	NT	3.79	0.004591	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VH	NT	-4.45	-0.005391	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	-1.17	-0.001399	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	4.38	0.005236	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	-5.59	-0.006683	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VL	NT	3.13	0.003693	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VN	NT	-1.85	-0.002183	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VH	NT	4.03	0.004755	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VL	NT	-1.19	-0.001442	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VN	NT	-1.65	-0.001999	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VH	NT	2.62	0.003174	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VL	NT	1.49	0.001781	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VN	NT	2.82	0.003371	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VH	NT	1.19	0.001423	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VL	NT	-3.30	-0.003894	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VN	NT	2.09	0.002466	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VH	NT	2.60	0.003068	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VL	NT	-4.62	-0.005590	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VN	NT	3.93	0.004755	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VH	NT	-2.76	-0.003339	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	-2.42	-0.002893	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VN	NT	1.80	0.002152	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	-3.46	-0.004136	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VL	NT	1.32	0.001559	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VN	NT	5.14	0.006072	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VH	NT	3.36	0.003969	±2.5	PASS

Band5	5MHz	16QAM	20425	25RB#0	VL	NT	-3.05	-0.003690	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VN	NT	-1.27	-0.001537	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VH	NT	-6.15	-0.007441	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VL	NT	-2.45	-0.002929	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VN	NT	-1.82	-0.002176	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VH	NT	3.71	0.004435	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VL	NT	3.38	0.003993	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VN	NT	-5.09	-0.006013	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VH	NT	-1.19	-0.001406	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	5.12	0.006176	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	1.56	0.001882	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-4.49	-0.005416	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	3.69	0.004411	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	2.73	0.003264	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	4.02	0.004806	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-4.38	-0.005190	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-2.23	-0.002642	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-5.42	-0.006422	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	1.00	0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	2.32	0.002799	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	5.16	0.006224	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-4.05	-0.004842	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-1.34	-0.001602	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-0.82	-0.000980	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-5.45	-0.006457	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-4.78	-0.005664	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-5.71	-0.006765	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-3.78	-0.004583	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-4.43	-0.005372	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	2.17	0.002631	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	3.33	0.004038	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-3.29	-0.003989	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-2.10	-0.002510	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	2.73	0.003264	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-3.26	-0.003897	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	2.27	0.002714	±2.5	PASS

Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	0.70	0.000837	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	1.66	0.001957	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	2.60	0.003065	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	2.29	0.002700	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	1.37	0.001615	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	-1.62	-0.001910	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	2.16	0.002619	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-3.43	-0.004159	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	3.23	0.003917	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	5.14	0.006233	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-3.06	-0.003710	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	2.15	0.002570	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-3.33	-0.003981	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	2.15	0.002570	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-4.08	-0.004877	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	3.46	0.004136	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-2.98	-0.003513	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	2.98	0.003513	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	2.59	0.003053	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-1.85	-0.002181	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	3.10	0.003654	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	3.86	0.004676	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	-3.12	-0.003780	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	-4.51	-0.005463	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	-2.79	-0.003380	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	3.55	0.004300	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	4.22	0.005045	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	-2.26	-0.002702	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	2.32	0.002773	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	-5.36	-0.006408	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	-5.04	-0.006025	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	-2.07	-0.002442	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	-3.66	-0.004319	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	4.53	0.005345	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	-1.17	-0.001381	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	1.66	0.001959	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	-1.97	-0.002386	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	-1.57	-0.001902	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	-3.83	-0.004640	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	-4.72	-0.005718	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	-1.36	-0.001647	±2.5	PASS

Band5	3MHz	16QAM	20525	15RB#0	NV	-30	-3.23	-0.003861	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	3.46	0.004136	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	3.58	0.004280	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	3.49	0.004172	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	-1.66	-0.001984	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	5.88	0.006938	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	-2.53	-0.002985	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	3.55	0.004189	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	-3.12	-0.003681	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	3.19	0.003764	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-1.90	-0.002299	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	-5.88	-0.007114	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	4.16	0.005033	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	3.15	0.003811	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	-2.92	-0.003533	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	3.35	0.004005	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	-4.85	-0.005798	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	4.42	0.005284	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	3.23	0.003861	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	-2.39	-0.002857	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	1.87	0.002209	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	4.02	0.004749	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	4.05	0.004784	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	-2.46	-0.002906	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	-3.29	-0.003887	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-3.53	-0.004271	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	3.32	0.004017	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	3.22	0.003896	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-4.79	-0.005796	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-5.04	-0.006098	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	-2.17	-0.002594	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	-6.42	-0.007675	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-1.89	-0.002259	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	-1.39	-0.001662	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	3.50	0.004184	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	-3.00	-0.003544	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	5.01	0.005918	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	-2.37	-0.002800	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	-5.32	-0.006285	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	3.05	0.003603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.60	-0.001930	±2.5	PASS

Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	5.21	0.006285	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-3.48	-0.004198	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	2.05	0.002473	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	4.11	0.004913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.93	-0.002307	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.76	-0.002104	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	3.53	0.004220	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-2.35	-0.002809	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-3.00	-0.003555	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-4.26	-0.005047	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-2.50	-0.002962	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-6.29	-0.007453	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-6.67	-0.007903	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	1.62	0.001954	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-1.17	-0.001411	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	4.95	0.005971	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-3.45	-0.004162	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-3.49	-0.004210	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-3.16	-0.003778	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	0.96	0.001148	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-5.15	-0.006157	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-5.02	-0.006001	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-1.44	-0.001721	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-1.57	-0.001860	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.66	-0.001967	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-5.16	-0.006114	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-2.49	-0.002950	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-2.05	-0.002429	±2.5	PASS