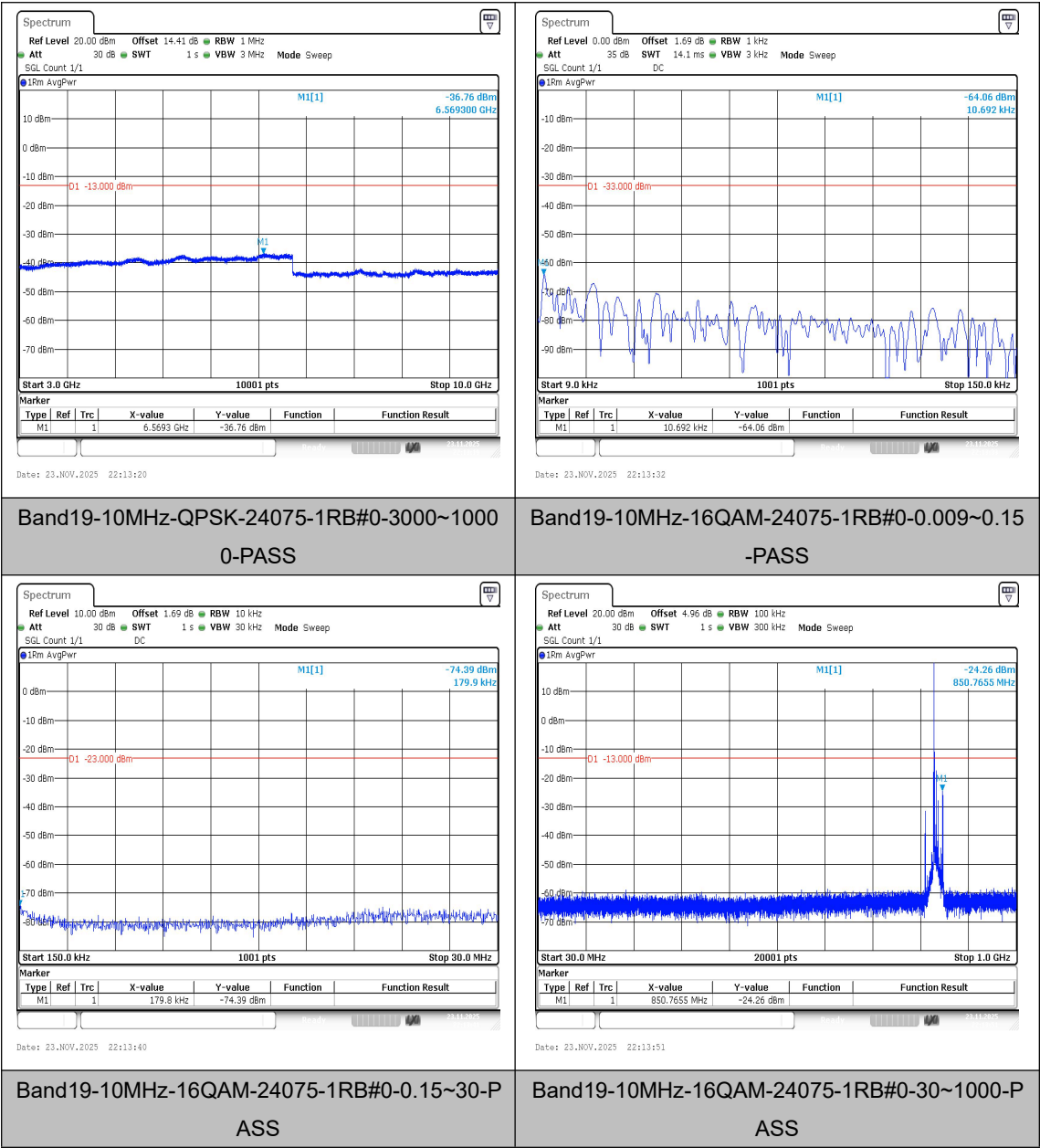
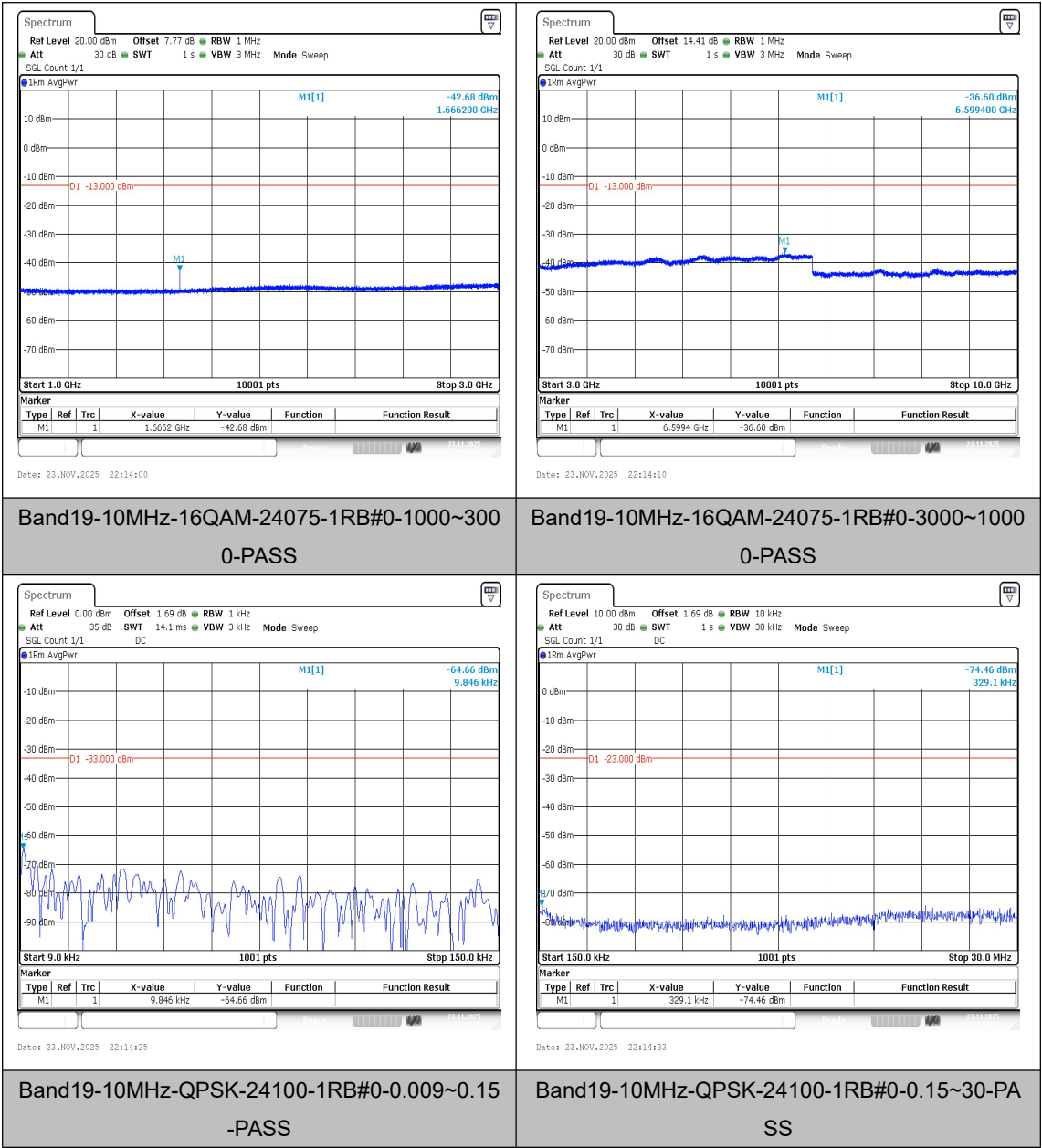
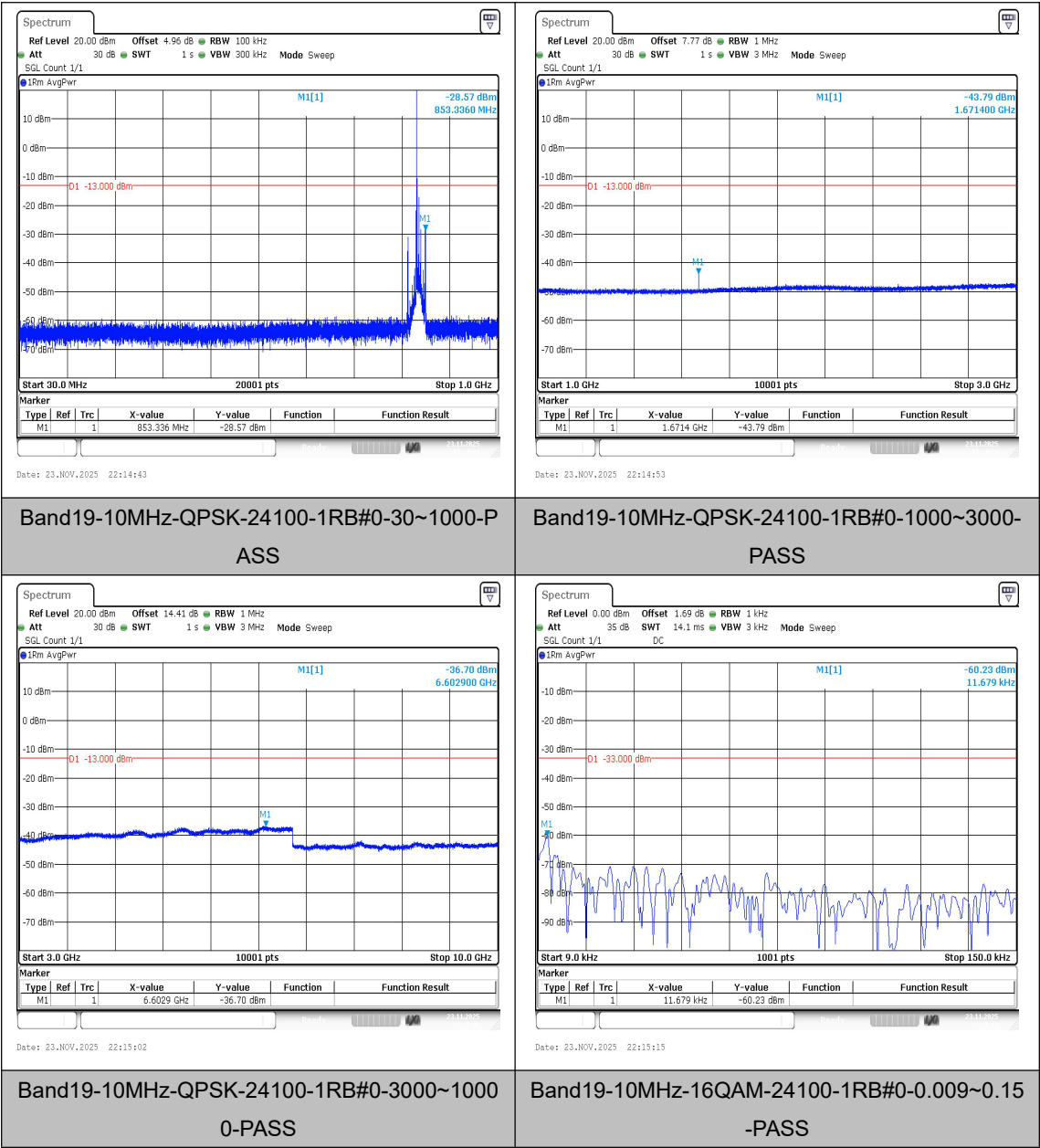
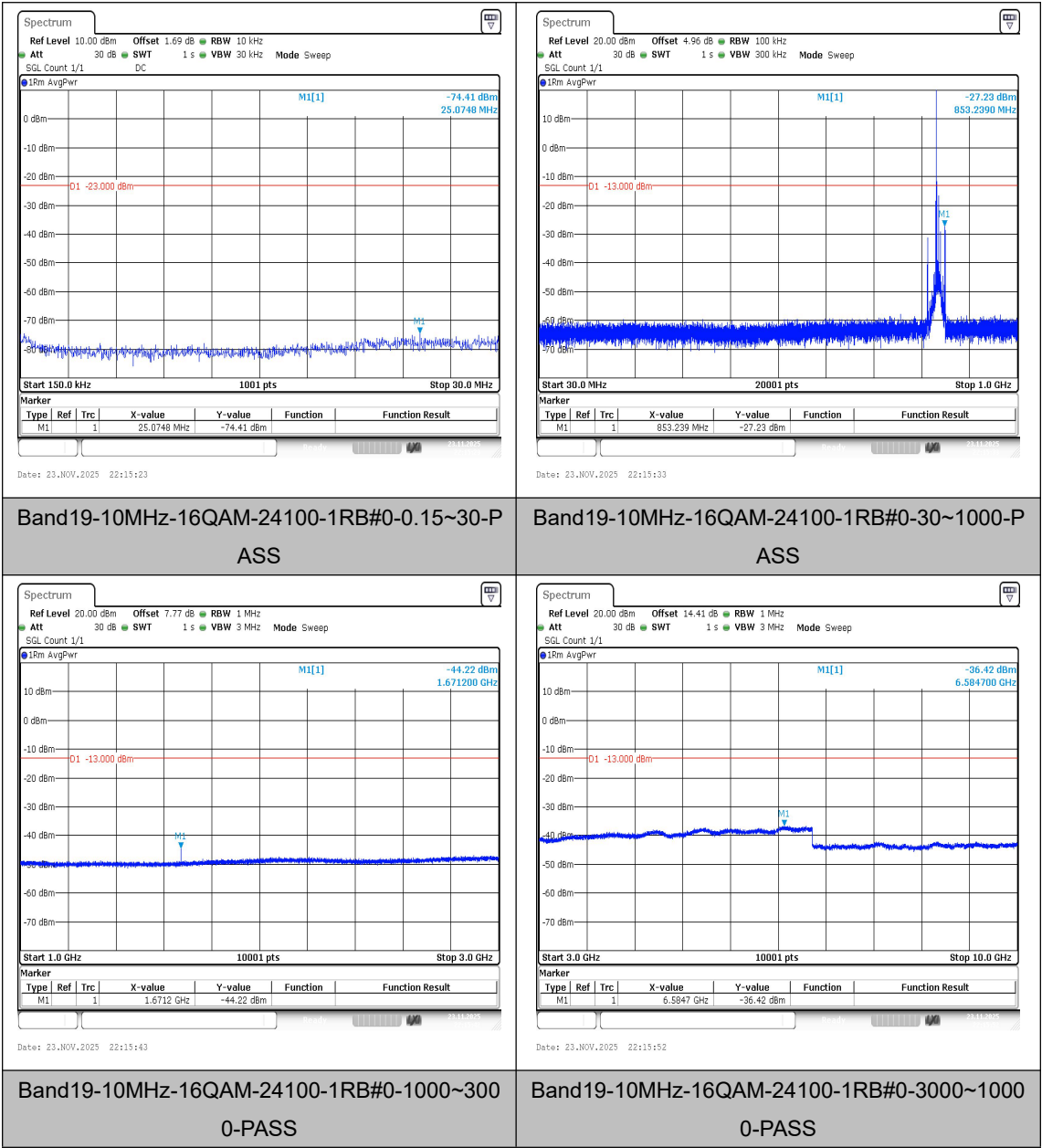
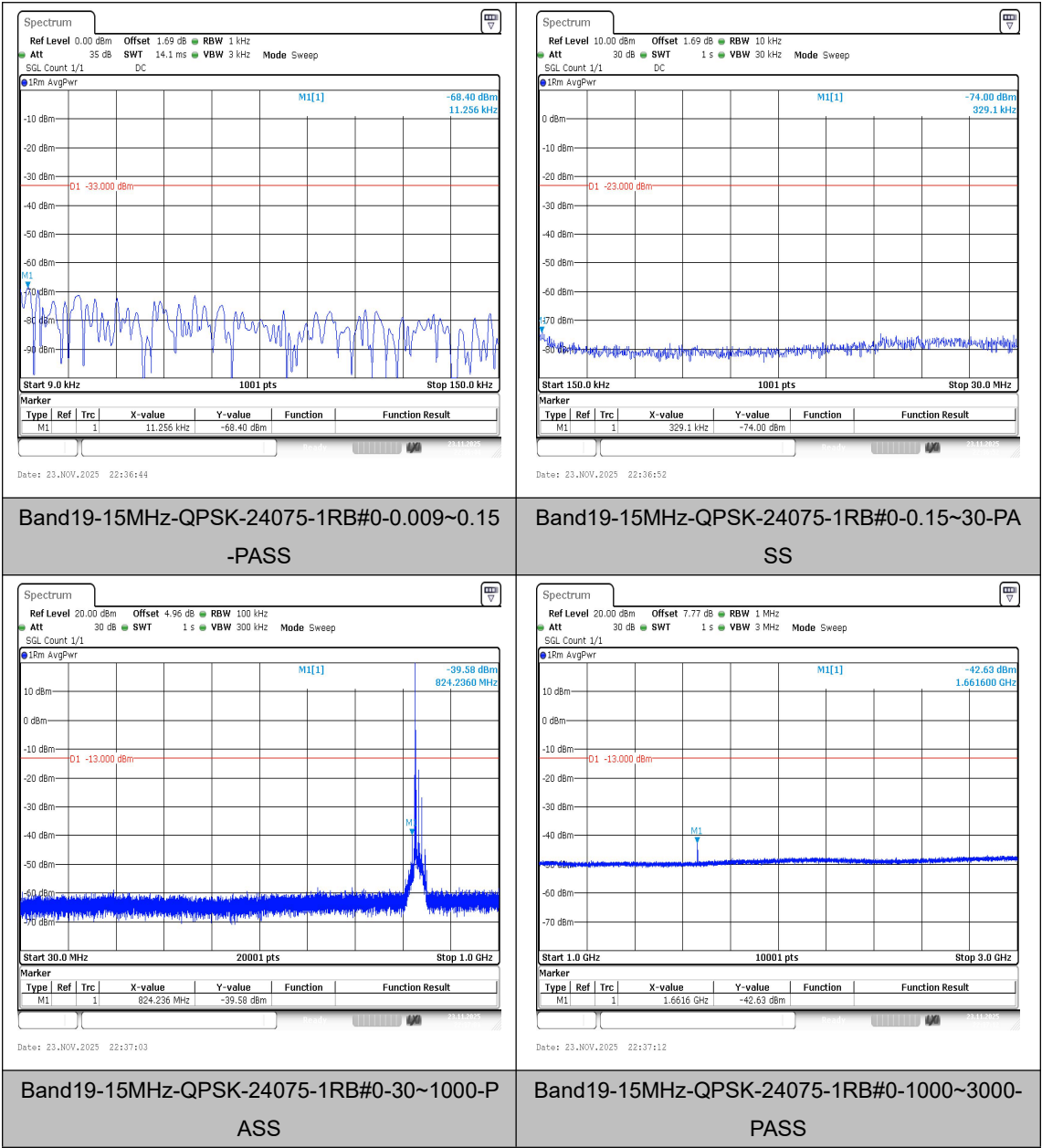


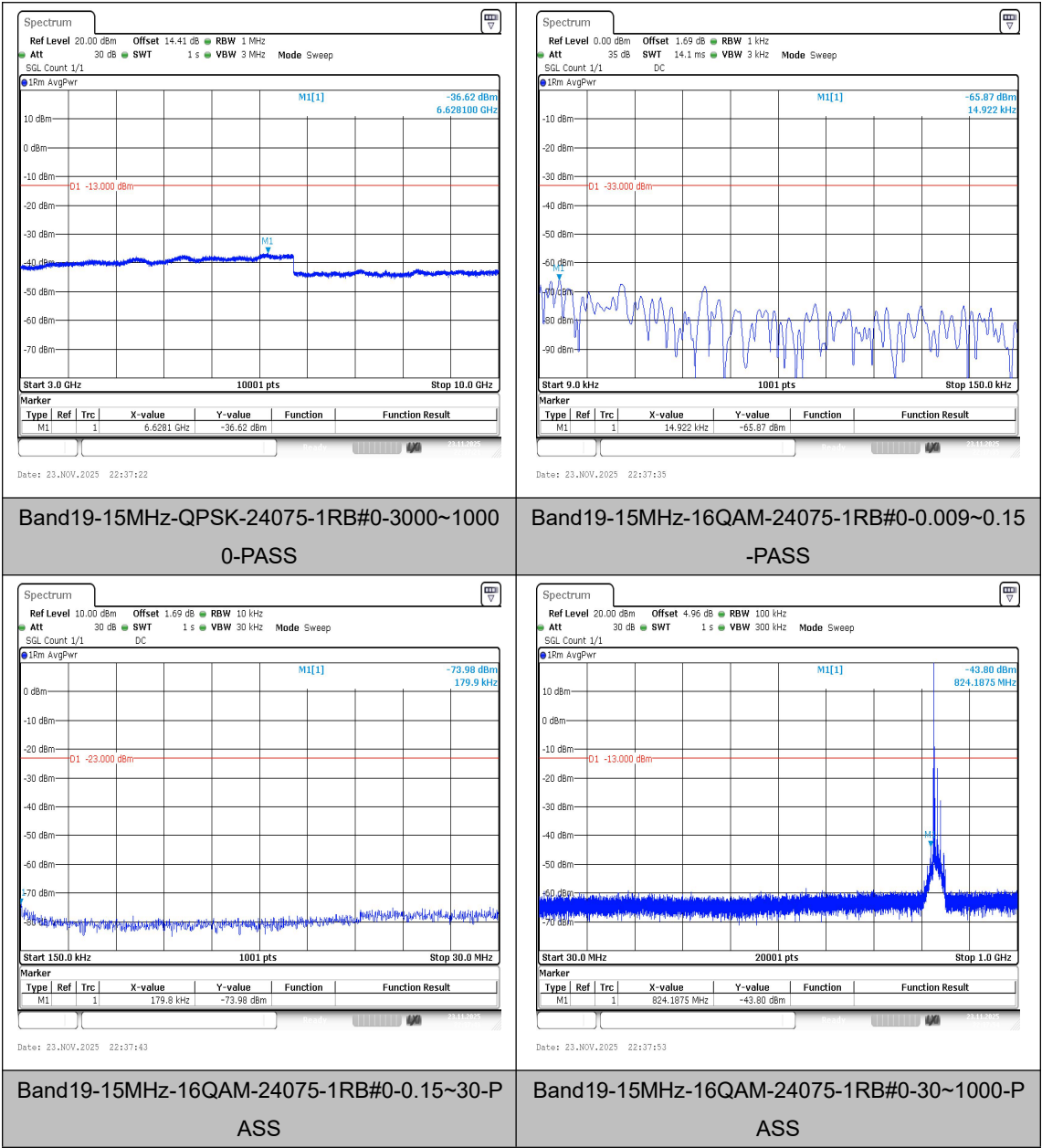


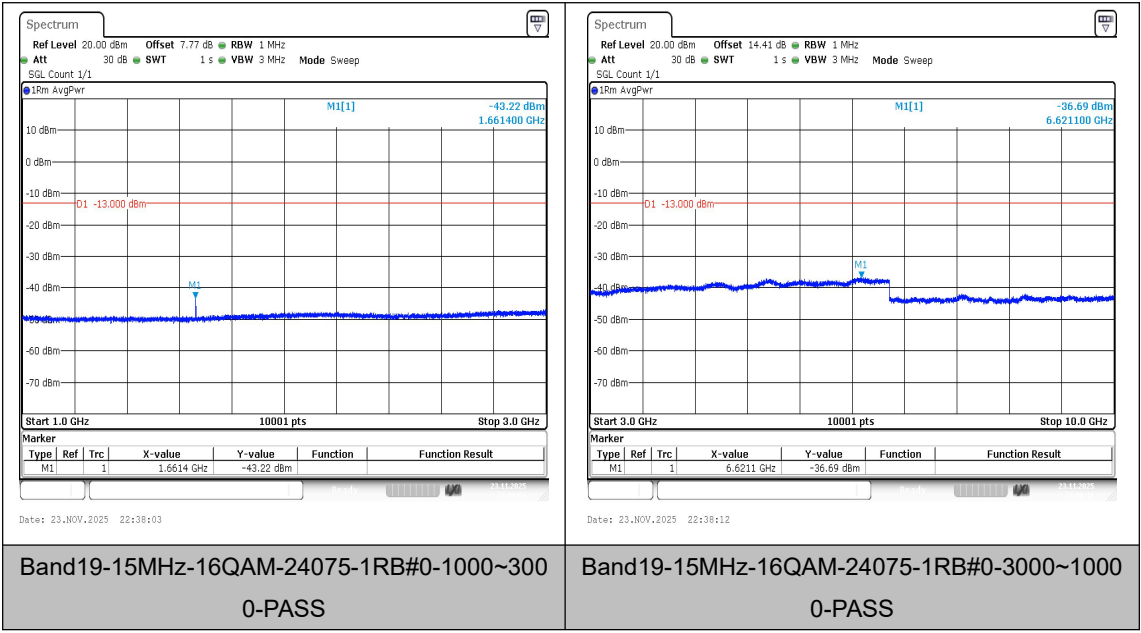












Appendix F: Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band19	5MHz	QPSK	24025	25RB#0	VN	NT	-8.55	-0.010270	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	VL	NT	-6.11	-0.007339	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	VH	NT	-6.77	-0.008132	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	VN	NT	-6.18	-0.007423	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	VL	NT	-10.19	-0.012240	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	VH	NT	-8.70	-0.010450	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	VN	NT	-9.93	-0.011857	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	VL	NT	-7.51	-0.008967	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	VH	NT	-4.94	-0.005899	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	VN	NT	-7.70	-0.009194	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	VL	NT	-8.53	-0.010185	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	VH	NT	-10.49	-0.012525	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	VN	NT	-11.74	-0.013935	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	VL	NT	-10.93	-0.012973	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	VH	NT	-7.08	-0.008404	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	VN	NT	-10.09	-0.011976	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	VL	NT	-11.86	-0.014077	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	VH	NT	-9.44	-0.011205	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	VN	NT	-6.05	-0.007246	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	VL	NT	-3.00	-0.003593	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	VH	NT	-9.21	-0.011030	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	VN	NT	-12.56	-0.015042	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	VL	NT	-7.64	-0.009150	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	VH	NT	-11.94	-0.014299	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	VN	NT	-13.66	-0.016310	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	VL	NT	-8.35	-0.009970	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	VH	NT	-15.58	-0.018603	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	VN	NT	-7.62	-0.009099	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	VL	NT	-8.07	-0.009636	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	VH	NT	-5.76	-0.006878	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	VN	NT	-13.76	-0.016381	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	VL	NT	-9.74	-0.011595	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	VH	NT	-5.81	-0.006917	±2.5	PASS

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Band19	10MHz	16QAM	24100	50RB#0	VN	NT	-10.50	-0.012500	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	VL	NT	-9.76	-0.011619	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	VH	NT	-2.65	-0.003155	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	VN	NT	-5.65	-0.006746	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	VL	NT	-9.43	-0.011260	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	VH	NT	-11.47	-0.013696	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	VN	NT	-11.80	-0.014090	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	VL	NT	-11.89	-0.014197	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	VH	NT	-11.53	-0.013767	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band19	5MHz	QPSK	24025	25RB#0	NV	-30	-8.98	-0.010787	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	-20	-6.22	-0.007471	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	-10	-7.64	-0.009177	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	0	-6.88	-0.008264	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	10	-10.50	-0.012613	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	20	-8.45	-0.010150	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	30	-10.64	-0.012781	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	40	-8.18	-0.009826	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	50	-8.97	-0.010775	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	-30	-2.72	-0.003267	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	-20	-9.67	-0.011616	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	-10	-6.48	-0.007784	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	0	-10.34	-0.012420	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	10	-5.49	-0.006595	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	20	-2.07	-0.002486	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	30	-8.61	-0.010342	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	40	-8.80	-0.010571	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	50	-8.53	-0.010246	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	-30	-3.12	-0.003725	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	-20	-10.34	-0.012346	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	-10	-7.48	-0.008931	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	0	-9.86	-0.011773	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	10	-7.42	-0.008860	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	20	-9.54	-0.011391	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	30	-13.50	-0.016119	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	40	-11.99	-0.014316	±2.5	PASS

Band19	5MHz	QPSK	24075	25RB#0	NV	50	-7.18	-0.008573	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	-30	-8.51	-0.010161	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	-20	-3.75	-0.004478	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	-10	-5.91	-0.007057	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	0	-7.55	-0.009015	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	10	-8.67	-0.010352	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	20	-8.08	-0.009648	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	30	-4.78	-0.005707	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	40	-9.58	-0.011439	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	50	-3.18	-0.003797	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	-30	-9.16	-0.010872	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	-20	-10.07	-0.011953	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	-10	-3.55	-0.004214	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	0	-10.49	-0.012451	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	10	-6.39	-0.007585	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	20	-8.97	-0.010647	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	30	-7.31	-0.008677	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	40	-13.26	-0.015739	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	50	-10.37	-0.012309	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	-30	-9.58	-0.011371	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	-20	-9.84	-0.011680	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	-10	-12.06	-0.014315	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	0	-8.41	-0.009982	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	10	-8.01	-0.009507	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	20	-11.66	-0.013840	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	30	-8.34	-0.009899	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	40	-11.60	-0.013769	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	50	-9.38	-0.011134	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	-30	-9.97	-0.011940	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	-20	-10.67	-0.012778	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	-10	-7.78	-0.009317	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	0	-8.47	-0.010144	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	10	-4.98	-0.005964	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	20	-8.67	-0.010383	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	30	-9.14	-0.010946	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	40	-9.11	-0.010910	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	50	-9.07	-0.010862	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	-30	-9.18	-0.010994	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	-20	-12.89	-0.015437	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	-10	-12.92	-0.015473	±2.5	PASS

Band19	10MHz	16QAM	24050	50RB#0	NV	0	-6.48	-0.007760	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	10	-9.20	-0.011018	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	20	-6.65	-0.007964	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	30	-13.28	-0.015904	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	40	-10.34	-0.012383	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	50	-6.15	-0.007365	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	-30	-5.26	-0.006281	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	-20	-7.58	-0.009051	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	-10	-7.71	-0.009206	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	0	-14.06	-0.016788	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	10	-13.83	-0.016513	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	20	-8.35	-0.009970	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	30	-7.20	-0.008597	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	40	-5.85	-0.006985	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	50	-4.72	-0.005636	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	-30	-9.18	-0.010961	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	-20	-8.74	-0.010436	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	-10	-9.41	-0.011236	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	0	-8.96	-0.010699	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	10	-16.21	-0.019355	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	20	-5.75	-0.006866	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	30	-4.46	-0.005325	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	40	-1.27	-0.001516	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	50	-11.13	-0.013290	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	-30	-7.98	-0.009500	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	-20	-6.41	-0.007631	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	-10	-8.51	-0.010131	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	0	-5.55	-0.006607	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	10	-11.70	-0.013929	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	20	-8.61	-0.010250	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	30	-10.56	-0.012571	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	40	-9.31	-0.011083	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	50	-11.17	-0.013298	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	-30	-7.72	-0.009190	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	-20	-3.75	-0.004464	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	-10	-8.88	-0.010571	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	0	-6.95	-0.008274	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	10	-8.31	-0.009893	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	20	-8.45	-0.010060	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	30	-8.07	-0.009607	±2.5	PASS

Band19	10MHz	16QAM	24100	50RB#0	NV	40	-11.00	-0.013095	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	50	-12.35	-0.014702	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	-30	-11.23	-0.013409	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	-20	-10.41	-0.012430	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	-10	-7.50	-0.008955	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	0	-11.83	-0.014125	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	10	-7.55	-0.009015	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	20	-9.87	-0.011785	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	30	-8.37	-0.009994	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	40	-9.26	-0.011057	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	50	-10.26	-0.012251	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	-30	-4.48	-0.005349	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	-20	-9.37	-0.011188	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	-10	-9.36	-0.011176	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	0	-11.30	-0.013493	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	10	-7.55	-0.009015	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	20	-4.82	-0.005755	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	30	1.47	0.001755	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	40	-13.72	-0.016382	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	50	-12.80	-0.015284	±2.5	PASS