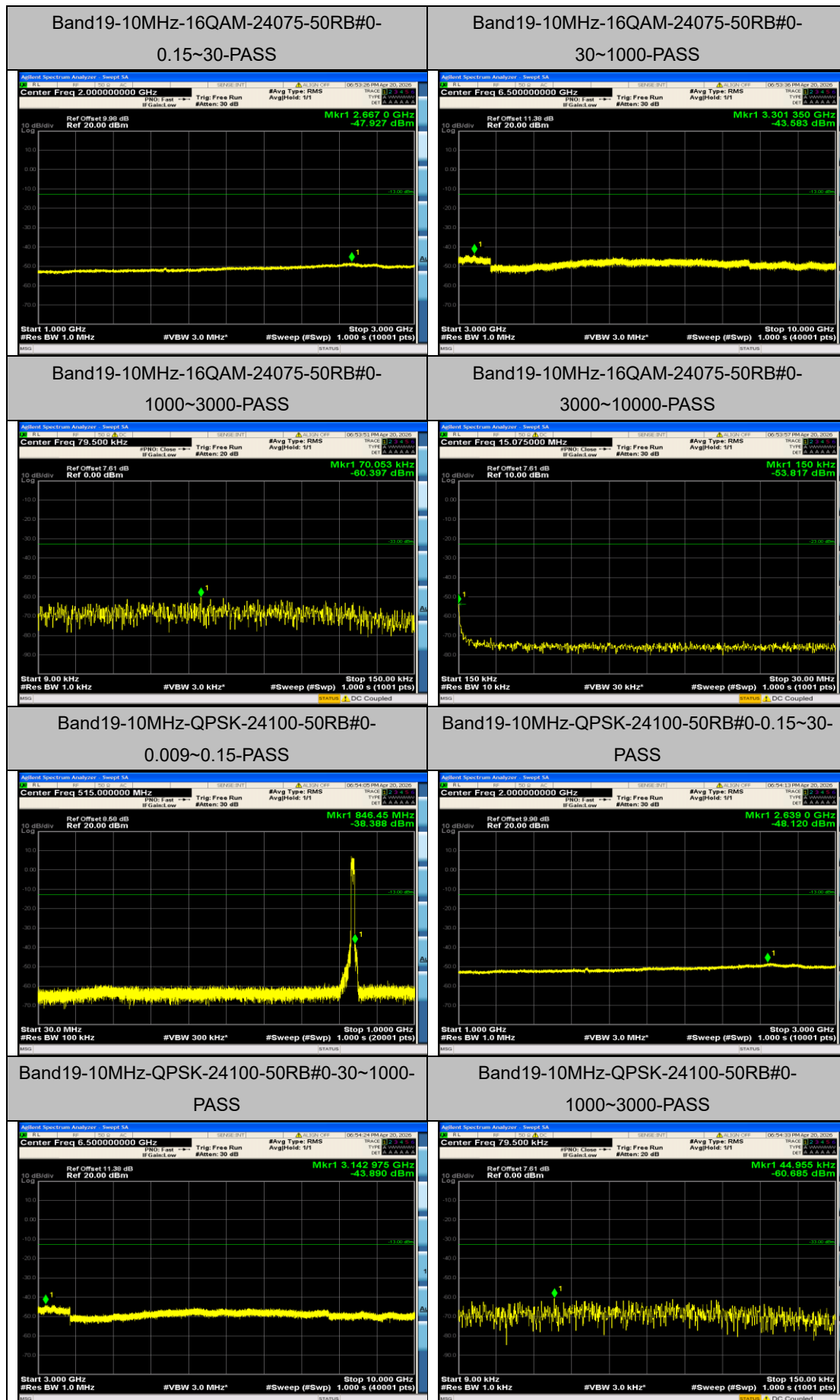
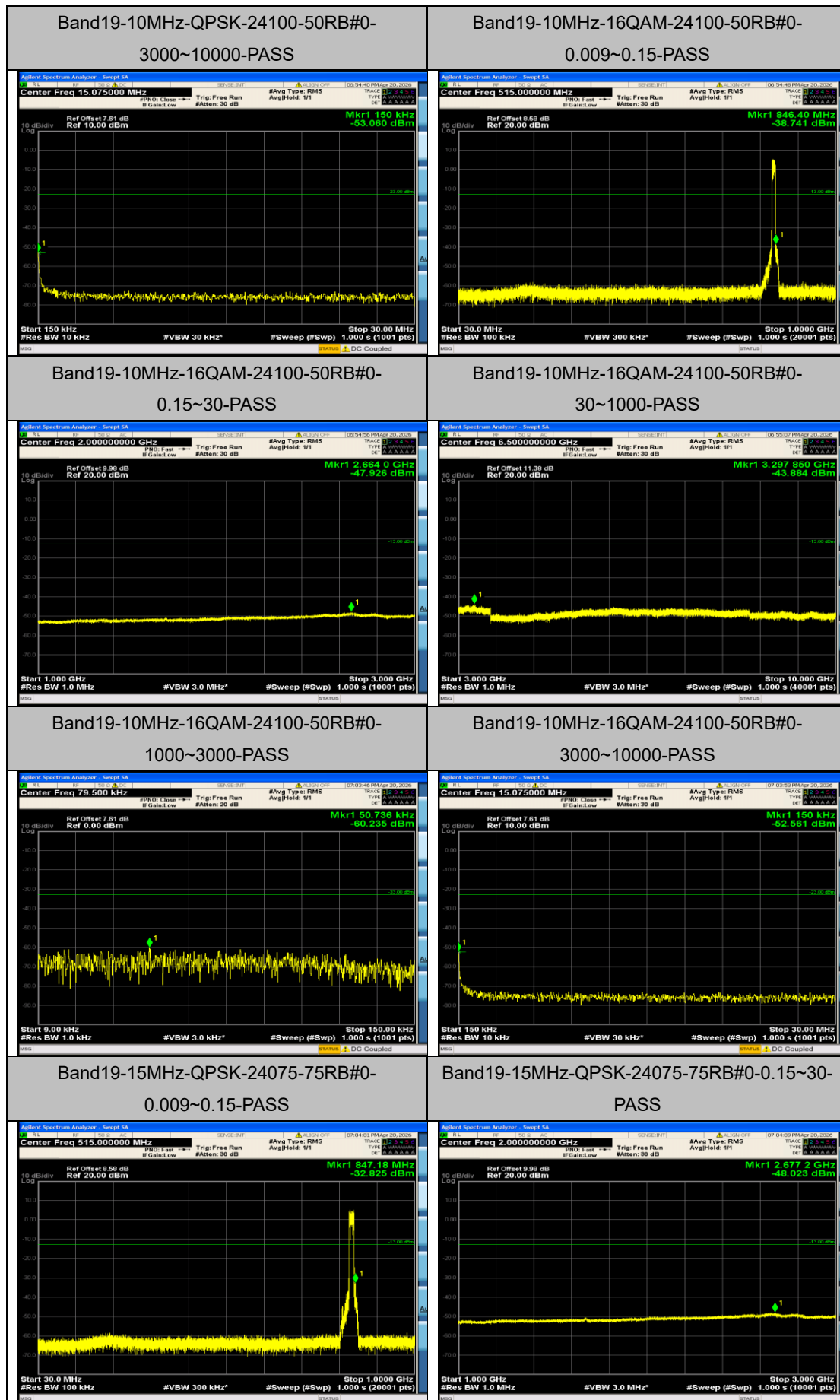
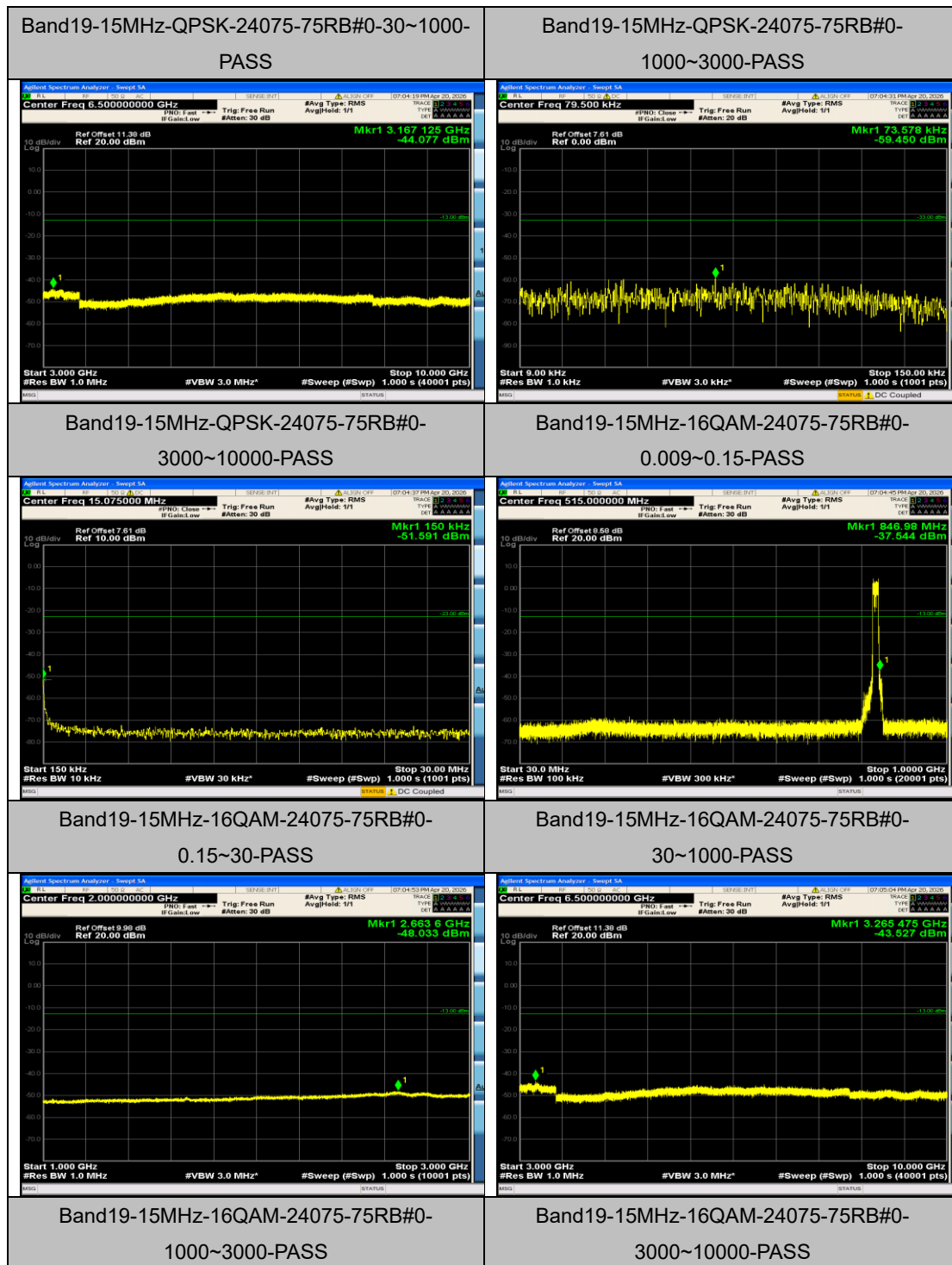








Appendix E: Frequency Stability

Test Result

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	4.61	0.005538	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	-20	5.84	0.007015	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	-10	5.91	0.007099	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	0	6.21	0.007459	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	10	9.04	0.010859	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	20	7.88	0.009465	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	30	7.52	0.009033	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	40	6.47	0.007772	±2.5	PASS
Band19	5MHz	QPSK	24025	25RB#0	NV	50	5.66	0.006799	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	-30	2.79	0.003351	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	-20	-1.80	-0.002162	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	-10	-2.62	-0.003147	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	0	-4.33	-0.005201	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	10	-4.52	-0.005429	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	20	-5.74	-0.006895	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	30	-4.33	-0.005201	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	40	-4.31	-0.005177	±2.5	PASS
Band19	5MHz	16QAM	24025	25RB#0	NV	50	-3.96	-0.004757	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	-30	9.88	0.011797	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	-20	10.47	0.012501	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	-10	10.37	0.012382	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	0	8.64	0.010316	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	10	10.96	0.013087	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	20	10.21	0.012191	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	30	9.08	0.010842	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	40	10.73	0.012812	±2.5	PASS
Band19	5MHz	QPSK	24075	25RB#0	NV	50	5.81	0.006937	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	-30	4.51	0.005385	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	-20	-2.37	-0.002830	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	-10	-5.01	-0.005982	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	0	-2.49	-0.002973	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	10	-6.68	-0.007976	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	20	-3.99	-0.004764	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	30	-3.91	-0.004669	±2.5	PASS
Band19	5MHz	16QAM	24075	25RB#0	NV	40	-4.92	-0.005875	±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	-4.41	-0.005234	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	-20	4.29	0.005092	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	-10	-2.88	-0.003418	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	0	-3.63	-0.004309	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	10	-7.57	-0.008985	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	20	-9.34	-0.011086	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	30	-8.40	-0.009970	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	40	-8.23	-0.009769	±2.5	PASS
Band19	5MHz	QPSK	24125	25RB#0	NV	50	-9.46	-0.011228	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	-30	-16.28	-0.019323	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	-20	-16.19	-0.019217	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	-10	-18.34	-0.021769	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	0	-20.93	-0.024843	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	10	-20.00	-0.023739	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	20	-19.97	-0.023703	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	30	-19.73	-0.023418	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	40	-18.71	-0.022208	±2.5	PASS
Band19	5MHz	16QAM	24125	25RB#0	NV	50	-19.15	-0.022730	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	-30	-3.15	-0.003772	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	-20	-2.49	-0.002982	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	-10	-3.02	-0.003617	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	0	-2.43	-0.002910	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	10	-2.56	-0.003066	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	20	-2.52	-0.003018	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	30	3.50	0.004192	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	40	-2.79	-0.003341	±2.5	PASS
Band19	10MHz	QPSK	24050	50RB#0	NV	50	-4.91	-0.005880	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	-30	-10.27	-0.012299	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	-20	-9.60	-0.011497	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	-10	-12.66	-0.015162	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	0	-10.66	-0.012766	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	10	-10.46	-0.012527	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	20	-9.67	-0.011581	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	30	-9.10	-0.010898	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	40	-10.64	-0.012743	±2.5	PASS
Band19	10MHz	16QAM	24050	50RB#0	NV	50	-13.28	-0.015904	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	-30	3.06	0.003654	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	-20	4.59	0.005481	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	-10	3.20	0.003821	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	0	6.09	0.007272	±2.5	PASS

Band19	10MHz	QPSK	24075	50RB#0	NV	10	5.44	0.006496	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	20	6.72	0.008024	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	30	7.68	0.009170	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	40	4.33	0.005170	±2.5	PASS
Band19	10MHz	QPSK	24075	50RB#0	NV	50	6.78	0.008096	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	-30	2.79	0.003331	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	-20	1.82	0.002173	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	-10	-3.39	-0.004048	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	0	2.59	0.003093	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	10	-4.28	-0.005110	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	20	-5.22	-0.006233	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	30	-2.33	-0.002782	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	40	-3.66	-0.004370	±2.5	PASS
Band19	10MHz	16QAM	24075	50RB#0	NV	50	-2.90	-0.003463	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	-30	6.64	0.007905	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	-20	9.78	0.011643	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	-10	10.06	0.011976	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	0	10.93	0.013012	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	10	8.43	0.010036	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	20	9.86	0.011738	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	30	5.36	0.006381	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	40	5.62	0.006690	±2.5	PASS
Band19	10MHz	QPSK	24100	50RB#0	NV	50	3.83	0.004560	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	-30	-4.95	-0.005893	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	-20	-5.88	-0.007000	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	-10	-7.94	-0.009452	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	0	-7.44	-0.008857	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	10	-8.03	-0.009560	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	20	-7.21	-0.008583	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	30	-8.94	-0.010643	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	40	-9.30	-0.011071	±2.5	PASS
Band19	10MHz	16QAM	24100	50RB#0	NV	50	-8.37	-0.009964	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	-30	-4.42	-0.005278	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	-20	-3.36	-0.004012	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	-10	-1.66	-0.001982	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	0	-2.79	-0.003331	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	10	-2.17	-0.002591	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	20	-5.34	-0.006376	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	30	-6.17	-0.007367	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	40	-3.52	-0.004203	±2.5	PASS
Band19	15MHz	QPSK	24075	75RB#0	NV	50	-4.48	-0.005349	±2.5	PASS

Band19	15MHz	16QAM	24075	75RB#0	NV	-30	-7.93	-0.009469	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	-20	-11.23	-0.013409	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	-10	-8.18	-0.009767	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	0	-8.81	-0.010519	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	10	-9.57	-0.011427	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	20	-10.90	-0.013015	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	30	-10.91	-0.013027	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	40	-10.69	-0.012764	±2.5	PASS
Band19	15MHz	16QAM	24075	75RB#0	NV	50	-11.40	-0.013612	±2.5	PASS