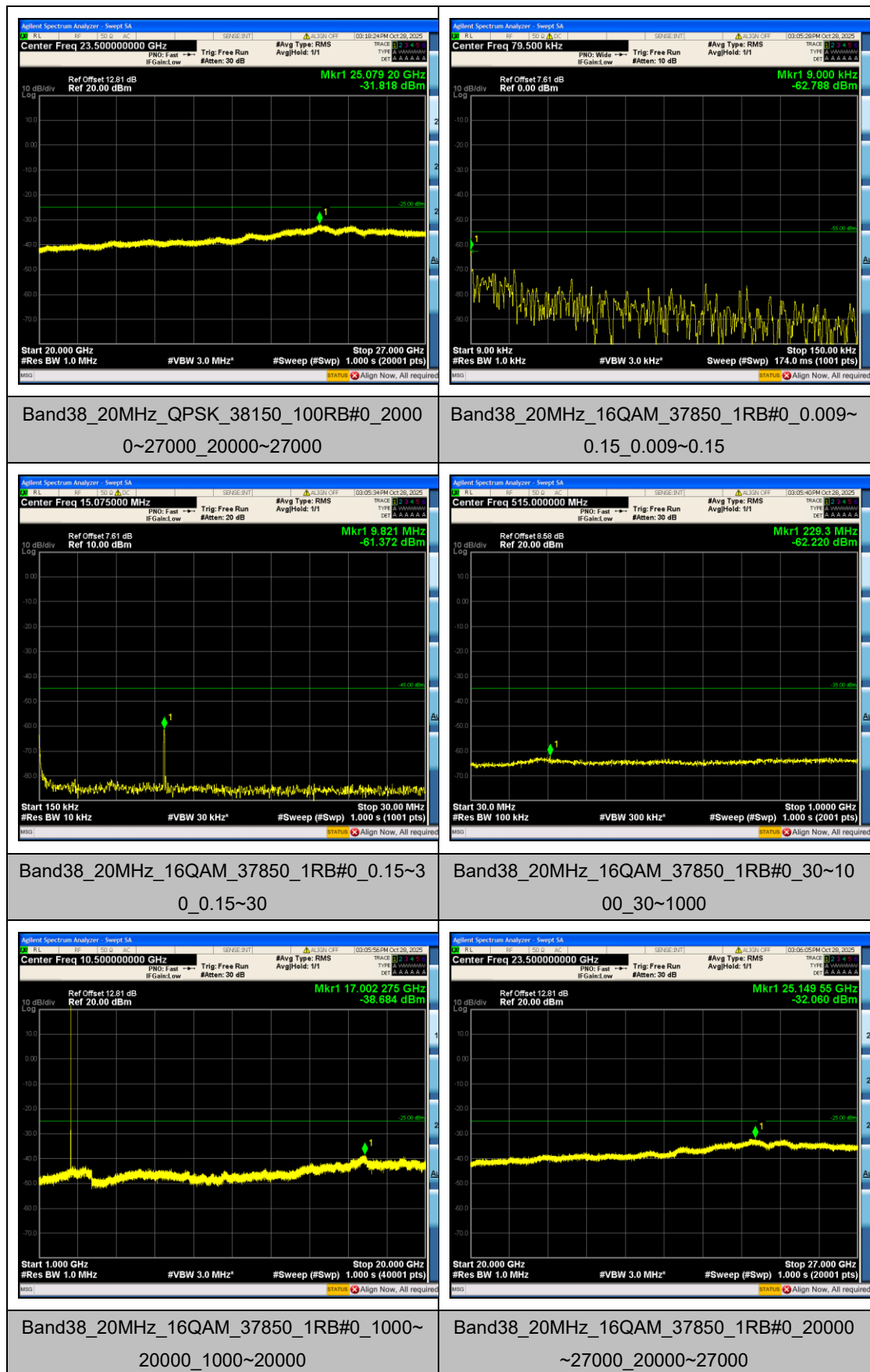
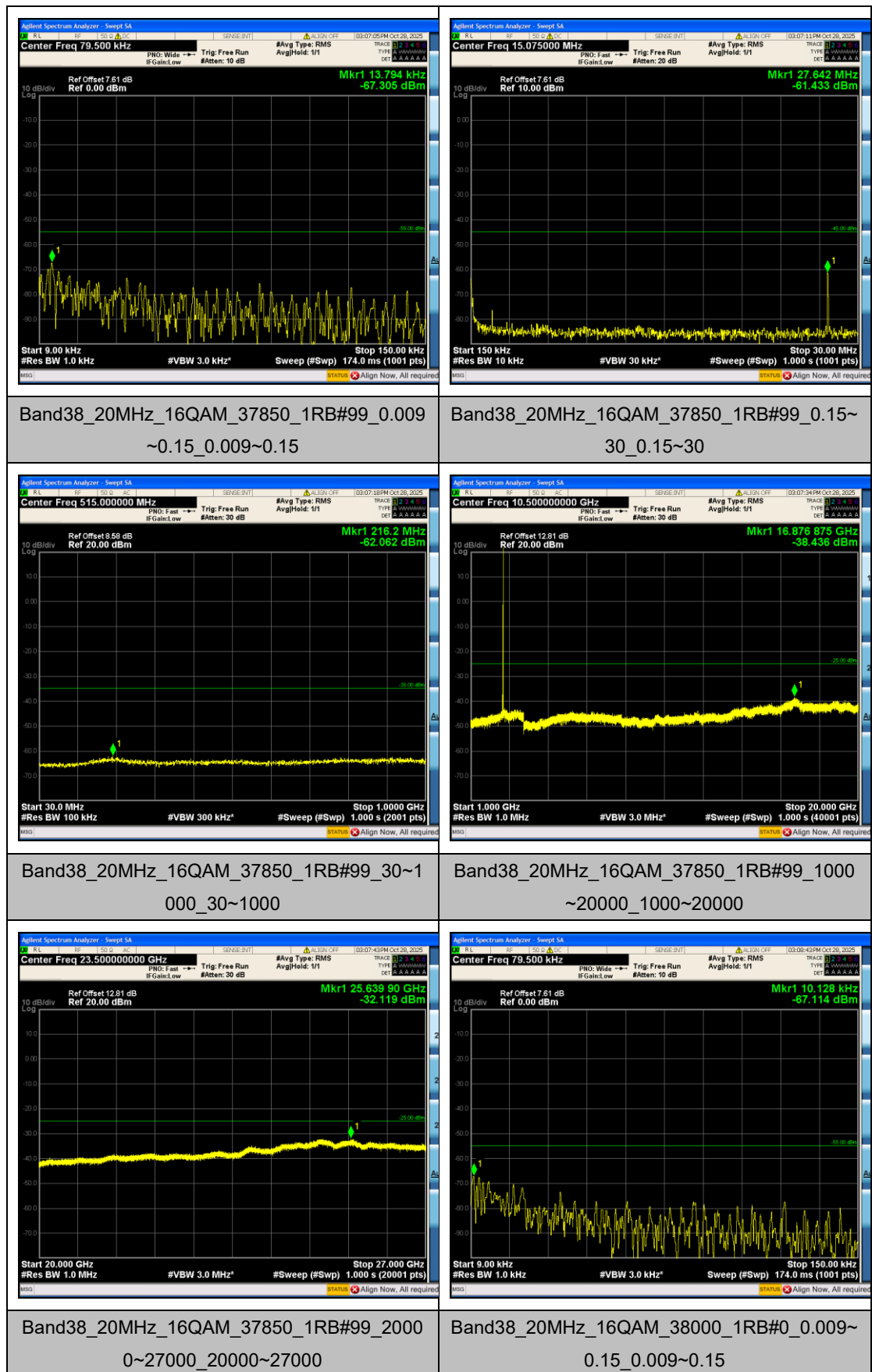
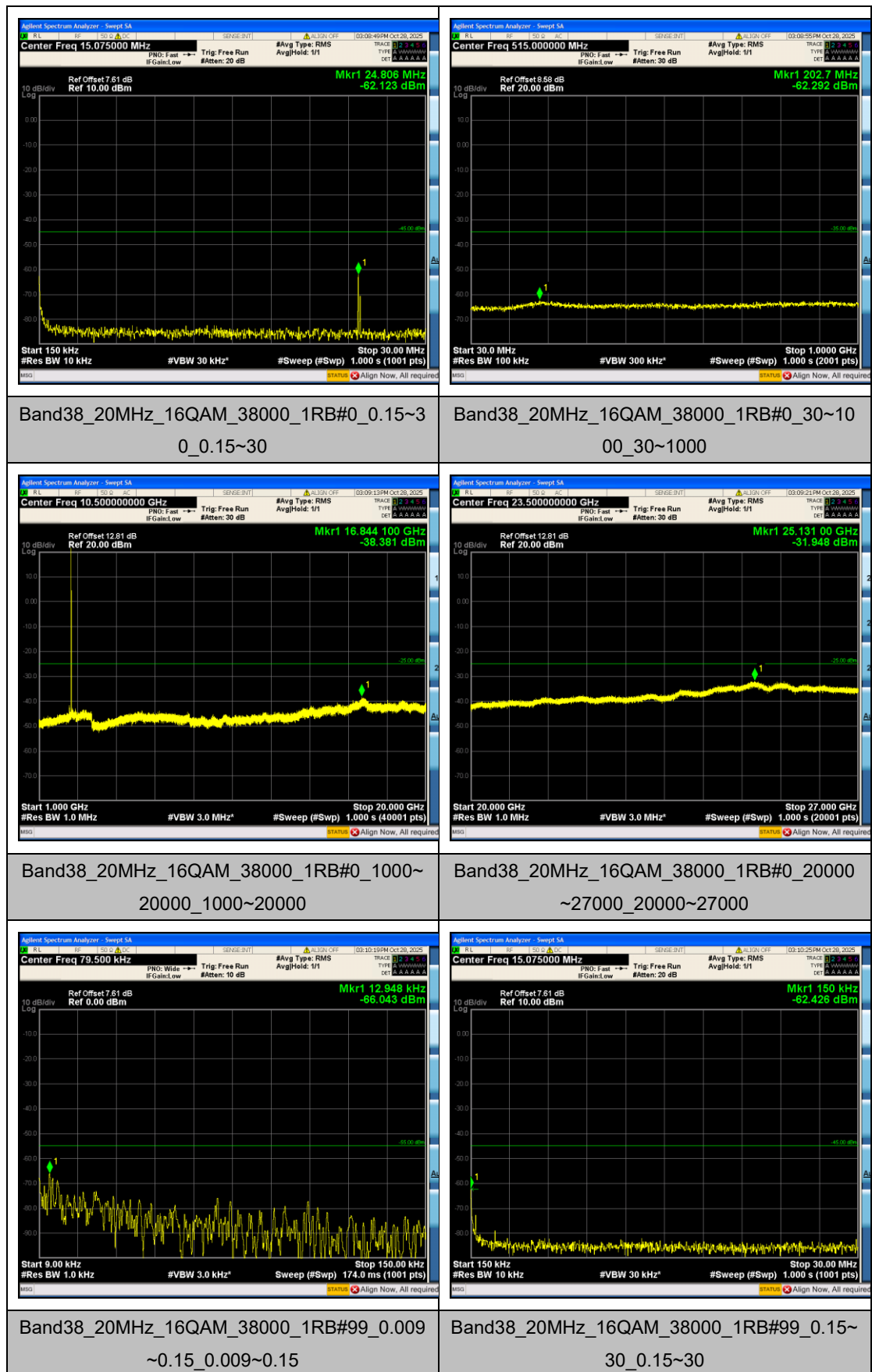
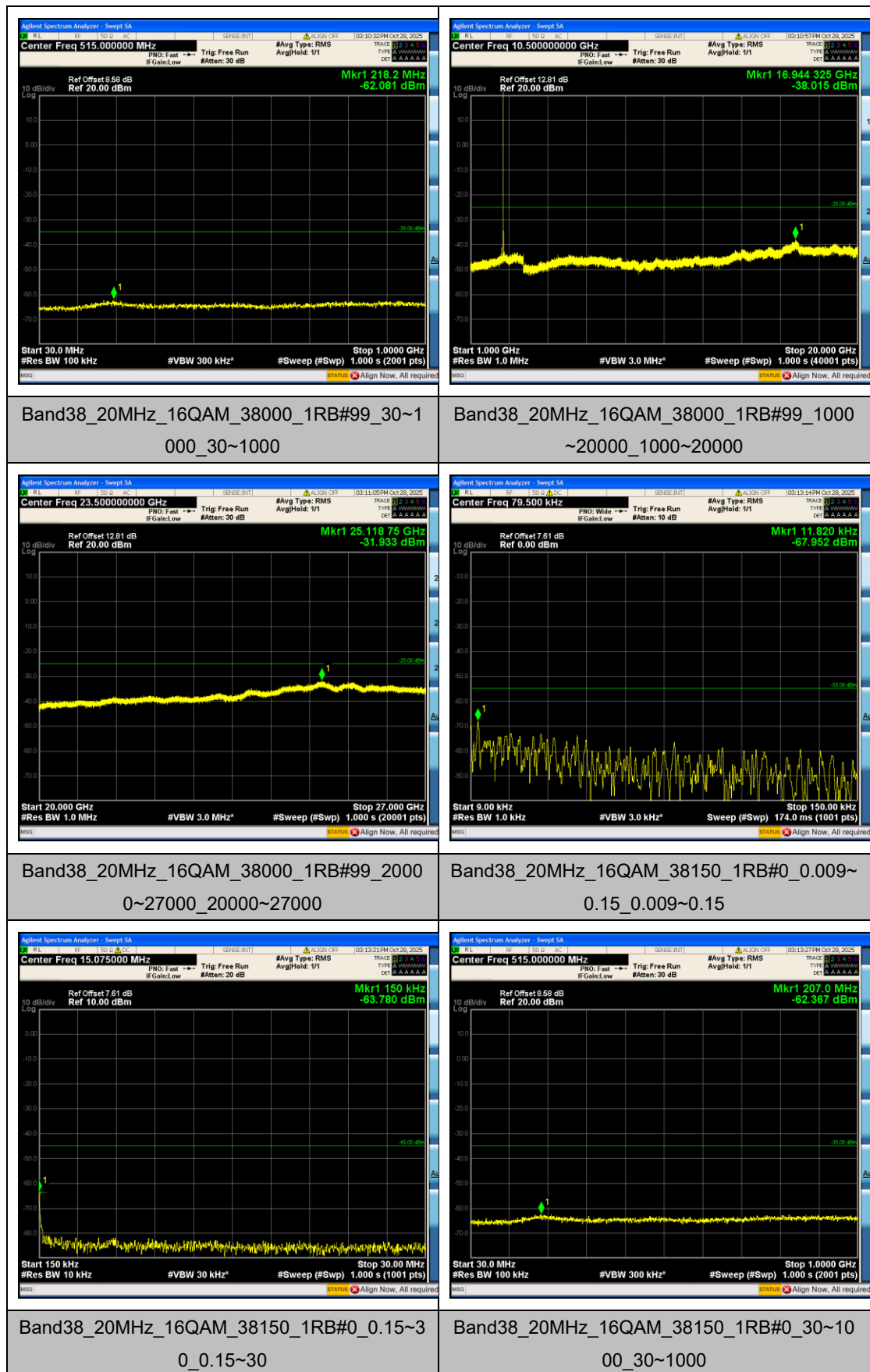
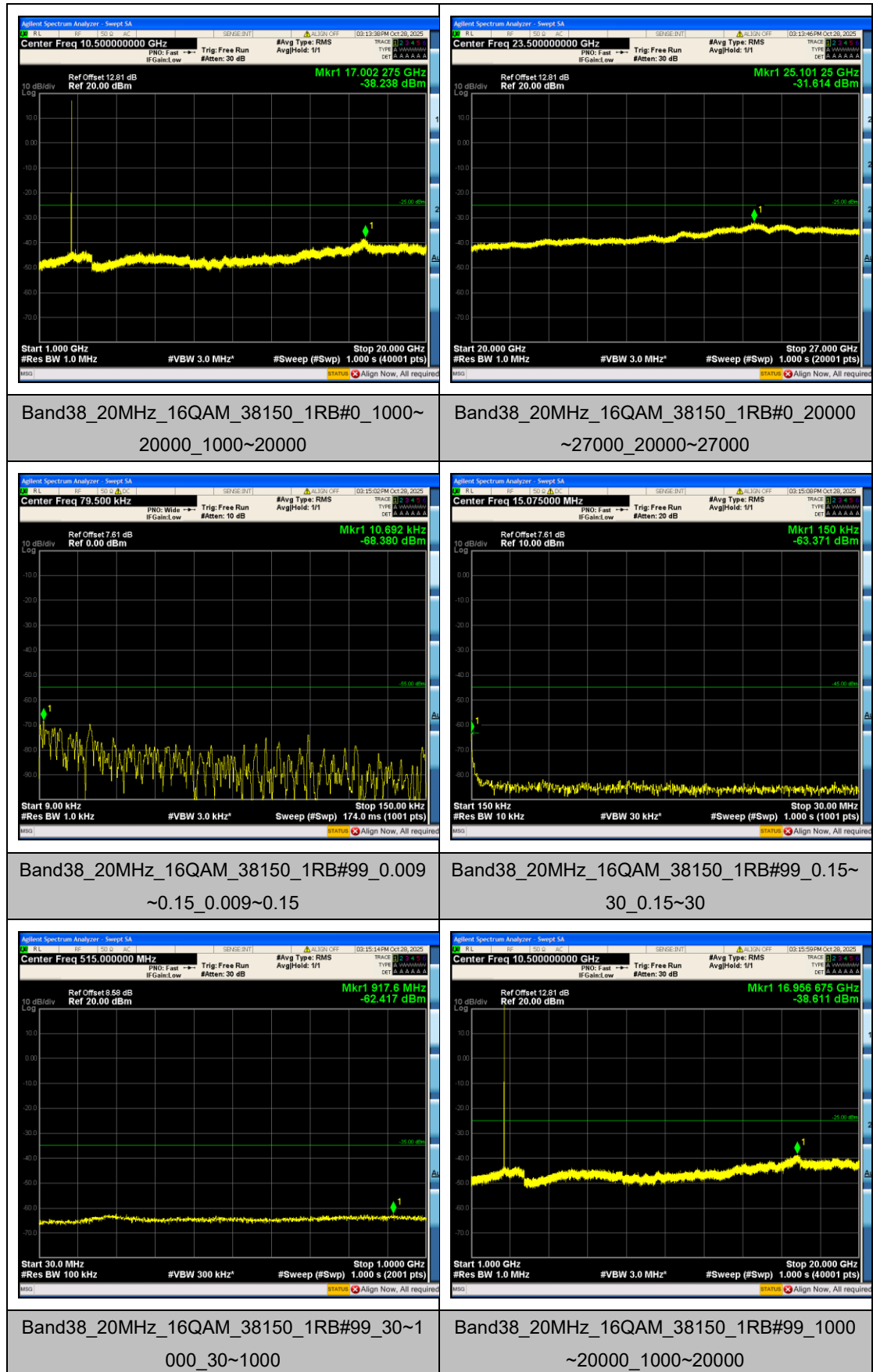


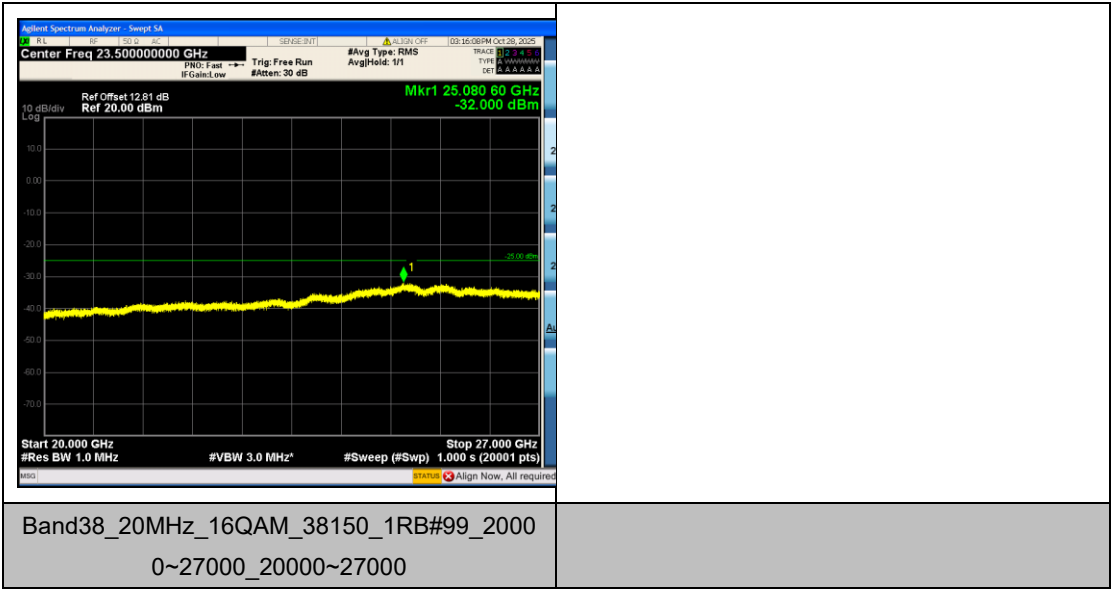












Appendix F: Frequency Stability

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	NV	-30	20.08	0.007806	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-20	10.06	0.003911	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	-10	5.11	0.001986	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	0	6.84	0.002659	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	10	16.24	0.006313	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	20	-9.36	-0.003638	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	30	-11.06	-0.004299	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	40	12.12	0.004711	±2.5	PASS
Band38	5MHz	QPSK	37775	25RB#0	NV	50	-10.26	-0.003988	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-30	10.20	0.003931	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-20	14.12	0.005441	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	-10	10.04	0.003869	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	0	8.71	0.003356	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	10	-7.78	-0.002998	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	20	8.31	0.003202	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	30	-9.46	-0.003645	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	40	-3.09	-0.001191	±2.5	PASS
Band38	5MHz	QPSK	38000	25RB#0	NV	50	13.18	0.005079	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-30	-3.99	-0.001524	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-20	5.88	0.002246	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	-10	8.45	0.003228	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	0	-10.36	-0.003958	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	10	8.53	0.003259	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	20	7.94	0.003033	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	30	-11.77	-0.004497	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	40	4.46	0.001704	±2.5	PASS
Band38	5MHz	QPSK	38225	25RB#0	NV	50	6.87	0.002625	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-30	9.94	0.003864	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-20	-6.68	-0.002597	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	-10	10.66	0.004144	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	0	5.38	0.002091	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	10	-8.75	-0.003401	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	20	9.88	0.003841	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	30	10.63	0.004132	±2.5	PASS
Band38	5MHz	16QAM	37775	25RB#0	NV	40	9.21	0.003580	±2.5	PASS

Band38	5MHz	16QAM	37775	25RB#0	NV	50	-11.52	-0.004478	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-30	6.79	0.002617	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-20	-6.92	-0.002667	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	-10	6.47	0.002493	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	0	9.11	0.003511	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	10	9.36	0.003607	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	20	-13.93	-0.005368	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	30	-5.99	-0.002308	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	40	-7.14	-0.002751	±2.5	PASS
Band38	5MHz	16QAM	38000	25RB#0	NV	50	-4.25	-0.001638	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-30	10.77	0.004115	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-20	7.82	0.002988	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	-10	-6.51	-0.002487	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	0	-7.85	-0.002999	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	10	6.68	0.002552	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	20	-9.47	-0.003618	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	30	5.99	0.002288	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	40	6.14	0.002346	±2.5	PASS
Band38	5MHz	16QAM	38225	25RB#0	NV	50	10.93	0.004176	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-30	6.81	0.002645	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-20	-9.70	-0.003767	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	-10	11.22	0.004357	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	0	8.40	0.003262	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	10	13.45	0.005223	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	20	10.07	0.003911	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	30	10.46	0.004062	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	40	7.50	0.002913	±2.5	PASS
Band38	10MHz	QPSK	37800	50RB#0	NV	50	12.10	0.004699	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-30	4.56	0.001757	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-20	-8.35	-0.003218	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	-10	11.74	0.004524	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	0	7.21	0.002778	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	10	6.68	0.002574	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	20	-5.59	-0.002154	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	30	-8.48	-0.003268	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	40	7.64	0.002944	±2.5	PASS
Band38	10MHz	QPSK	38000	50RB#0	NV	50	4.52	0.001742	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-30	15.03	0.005748	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-20	12.83	0.004906	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	-10	13.66	0.005224	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	0	13.88	0.005308	±2.5	PASS

Band38	10MHz	QPSK	38200	50RB#0	NV	10	6.22	0.002379	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	20	11.40	0.004359	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	30	9.11	0.003484	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	40	13.45	0.005143	±2.5	PASS
Band38	10MHz	QPSK	38200	50RB#0	NV	50	14.49	0.005541	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-30	8.31	0.003224	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-20	-6.25	-0.002425	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	-10	12.16	0.004718	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	0	12.89	0.005001	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	10	-6.74	-0.002615	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	20	8.81	0.003418	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	30	6.24	0.002421	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	40	15.18	0.005889	±2.5	PASS
Band38	15MHz	QPSK	37825	75RB#0	NV	50	8.17	0.003170	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-30	6.15	0.002370	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-20	-16.59	-0.006393	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	-10	8.80	0.003391	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	0	-9.20	-0.003545	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	10	-11.16	-0.004301	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	20	-4.89	-0.001884	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	30	-11.01	-0.004243	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	40	4.18	0.001611	±2.5	PASS
Band38	15MHz	QPSK	38000	75RB#0	NV	50	-8.05	-0.003102	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-30	10.36	0.003966	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-20	-6.27	-0.002400	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	-10	7.70	0.002947	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	0	-7.95	-0.003043	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	10	-13.65	-0.005225	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	20	6.02	0.002304	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	30	-6.71	-0.002568	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	40	9.50	0.003636	±2.5	PASS
Band38	15MHz	QPSK	38175	75RB#0	NV	50	-12.77	-0.004888	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	8.90	0.003450	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	-8.24	-0.003194	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-10	5.66	0.002194	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	-10.27	-0.003981	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	-5.06	-0.001961	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	-8.25	-0.003198	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	5.01	0.001942	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	7.41	0.002872	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	-14.41	-0.005585	±2.5	PASS

Band38	20MHz	QPSK	38000	100RB#0	NV	-30	9.17	0.003534	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-5.35	-0.002062	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-10.40	-0.004008	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-6.69	-0.002578	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-9.64	-0.003715	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-11.89	-0.004582	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-7.17	-0.002763	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	10.46	0.004031	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	10.14	0.003908	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	-6.19	-0.002372	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	-5.69	-0.002180	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-10	-11.89	-0.004556	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	0	-5.99	-0.002295	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	5.46	0.002092	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	-8.18	-0.003134	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	9.71	0.003720	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	-9.87	-0.003782	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	-6.82	-0.002613	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band38	5MHz	QPSK	37775	25RB#0	PASS
Band38	5MHz	QPSK	38000	25RB#0	PASS
Band38	5MHz	QPSK	38225	25RB#0	PASS
Band38	5MHz	16QAM	37775	25RB#0	PASS
Band38	5MHz	16QAM	38000	25RB#0	PASS
Band38	5MHz	16QAM	38225	25RB#0	PASS
Band38	10MHz	QPSK	37800	50RB#0	PASS
Band38	10MHz	QPSK	38000	50RB#0	PASS
Band38	10MHz	QPSK	38200	50RB#0	PASS
Band38	10MHz	16QAM	37800	1RB#0	PASS
Band38	10MHz	16QAM	38000	1RB#0	PASS
Band38	10MHz	16QAM	38200	1RB#0	PASS
Band38	15MHz	QPSK	37825	75RB#0	PASS
Band38	15MHz	QPSK	38000	75RB#0	PASS
Band38	15MHz	QPSK	38175	75RB#0	PASS
Band38	15MHz	16QAM	37825	1RB#0	PASS
Band38	15MHz	16QAM	38000	1RB#0	PASS
Band38	15MHz	16QAM	38175	1RB#0	PASS
Band38	20MHz	QPSK	37850	100RB#0	PASS
Band38	20MHz	QPSK	38000	100RB#0	PASS
Band38	20MHz	QPSK	38150	100RB#0	PASS
Band38	20MHz	16QAM	37850	1RB#0	PASS
Band38	20MHz	16QAM	38000	1RB#0	PASS
Band38	20MHz	16QAM	38150	1RB#0	PASS

Test Graphs

