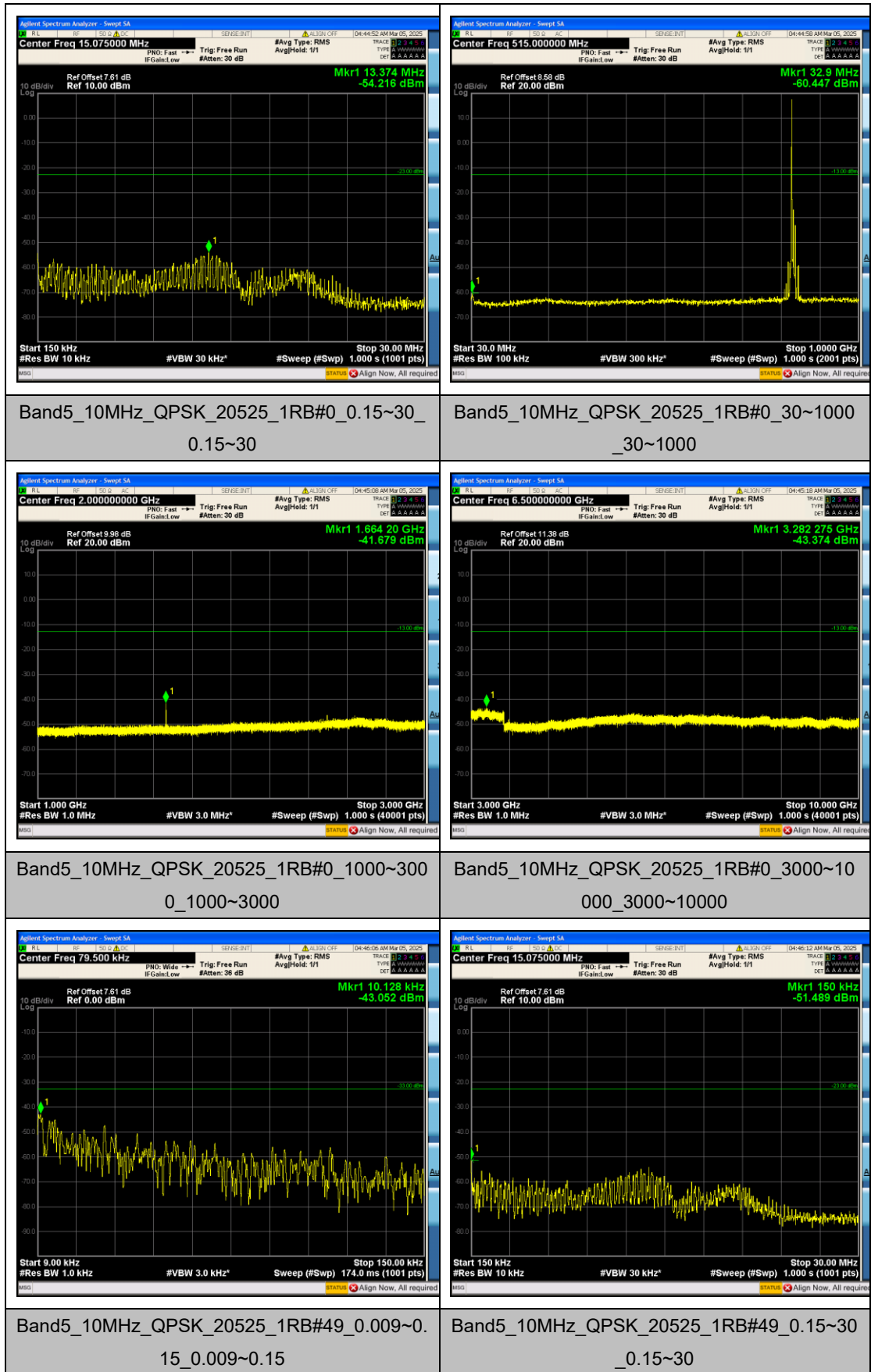
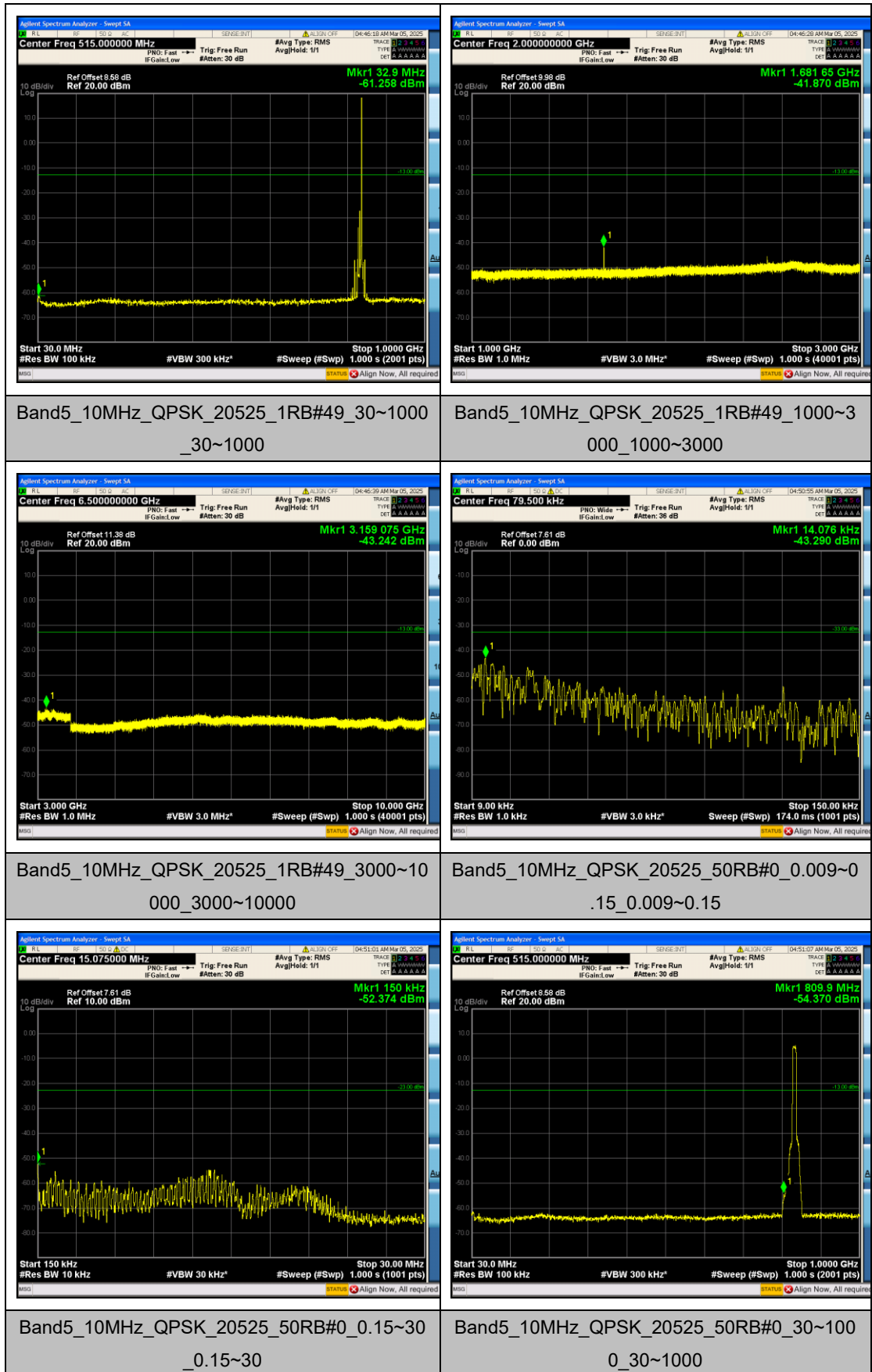
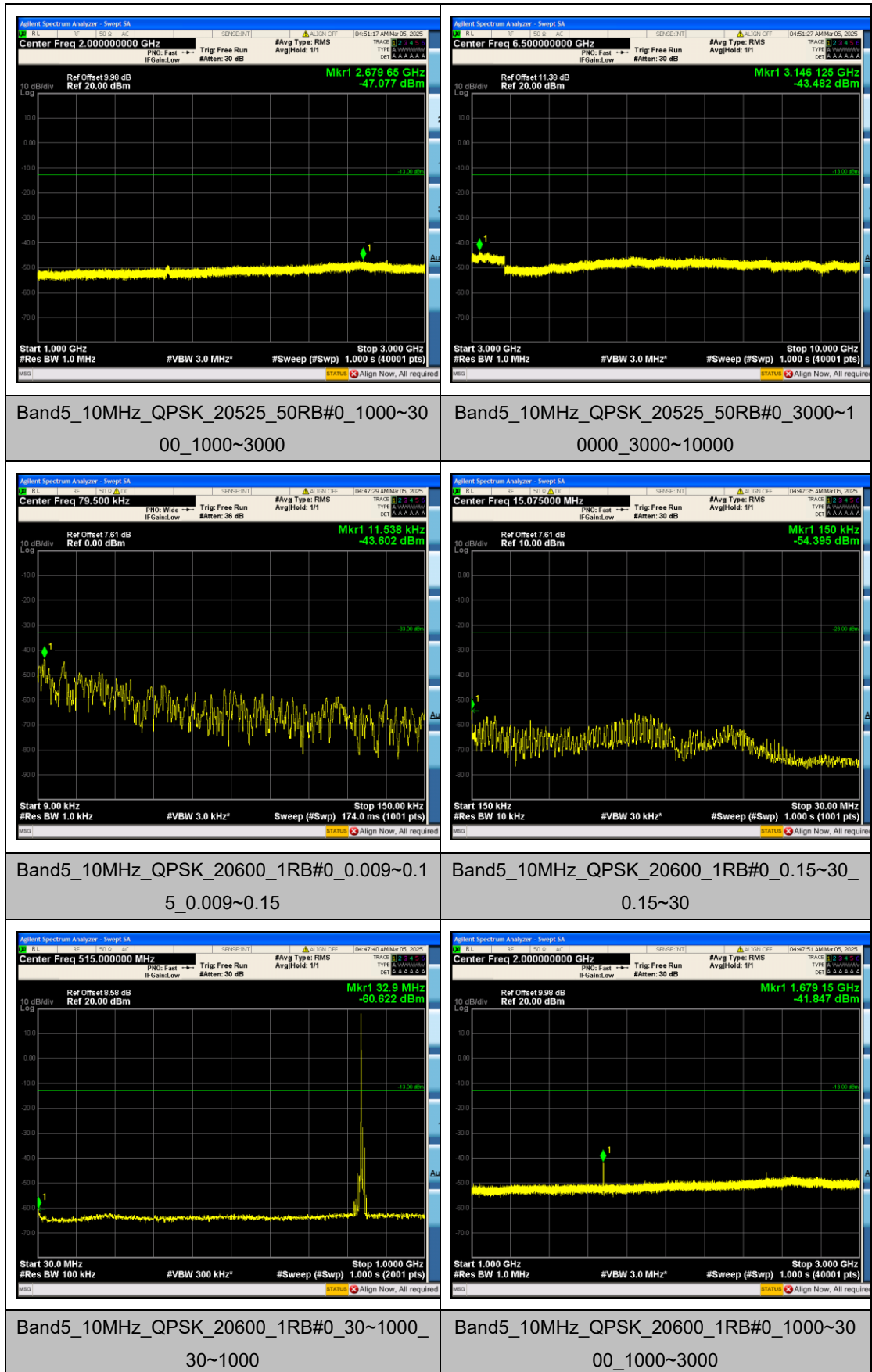
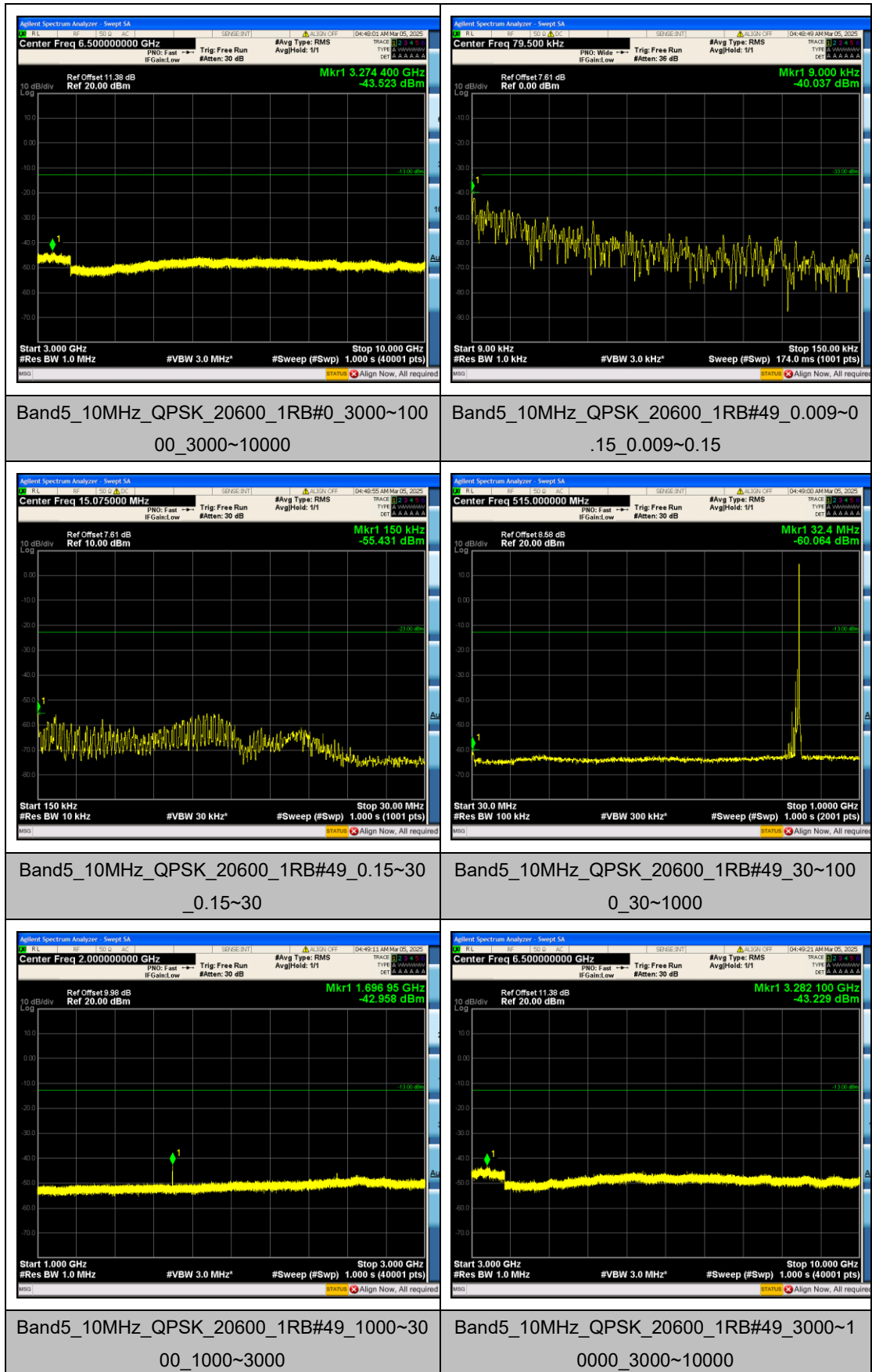
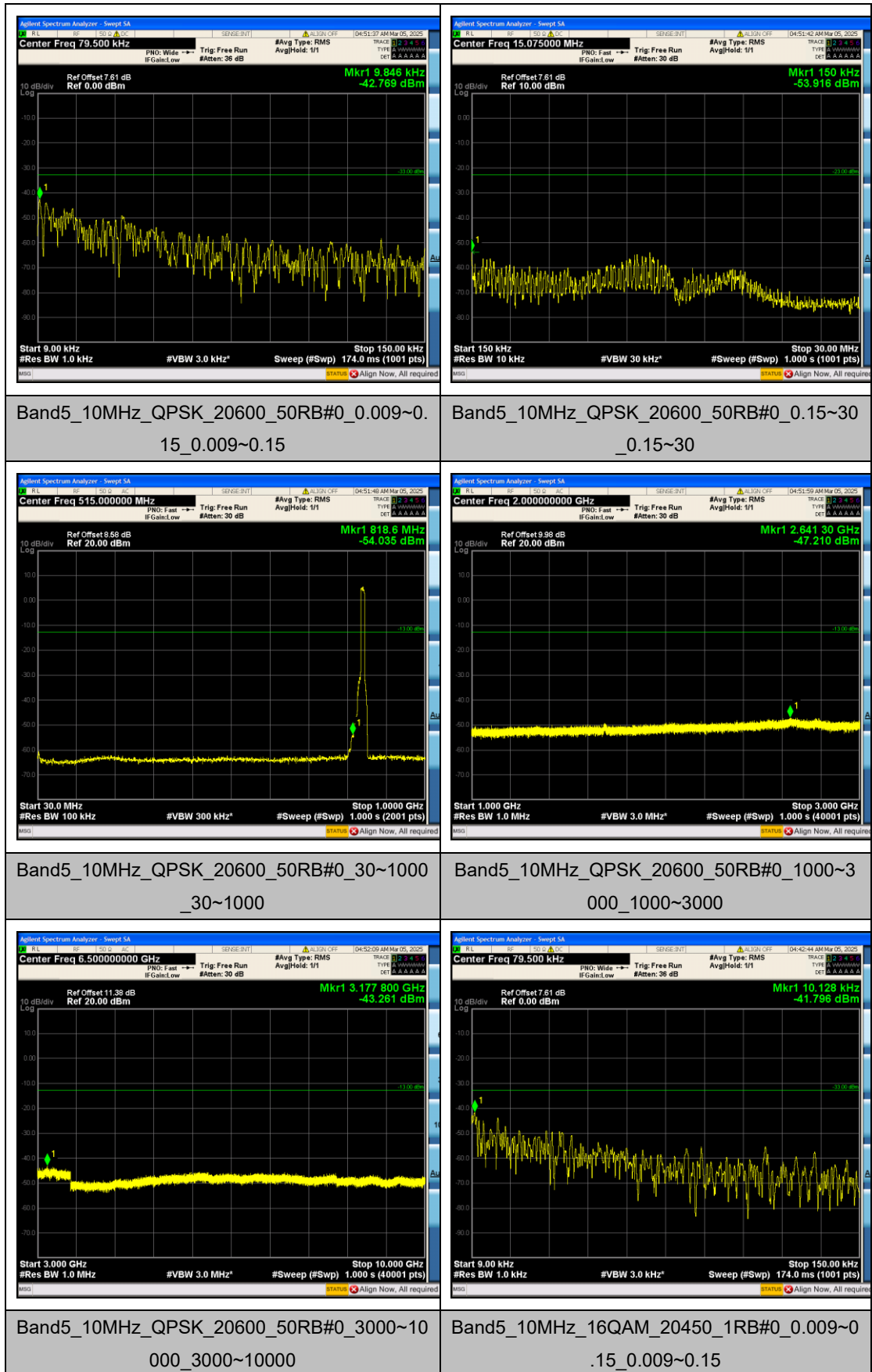


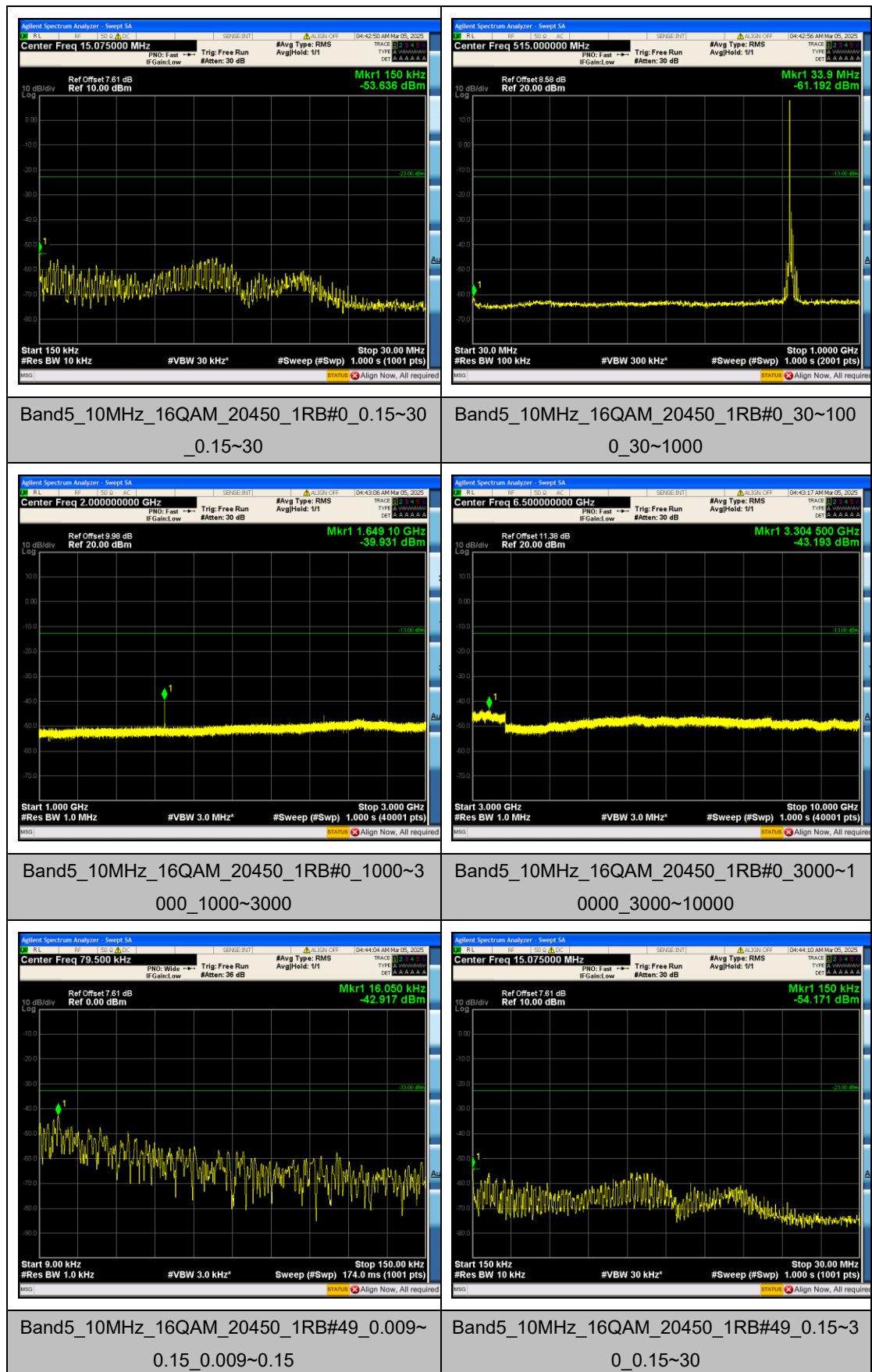


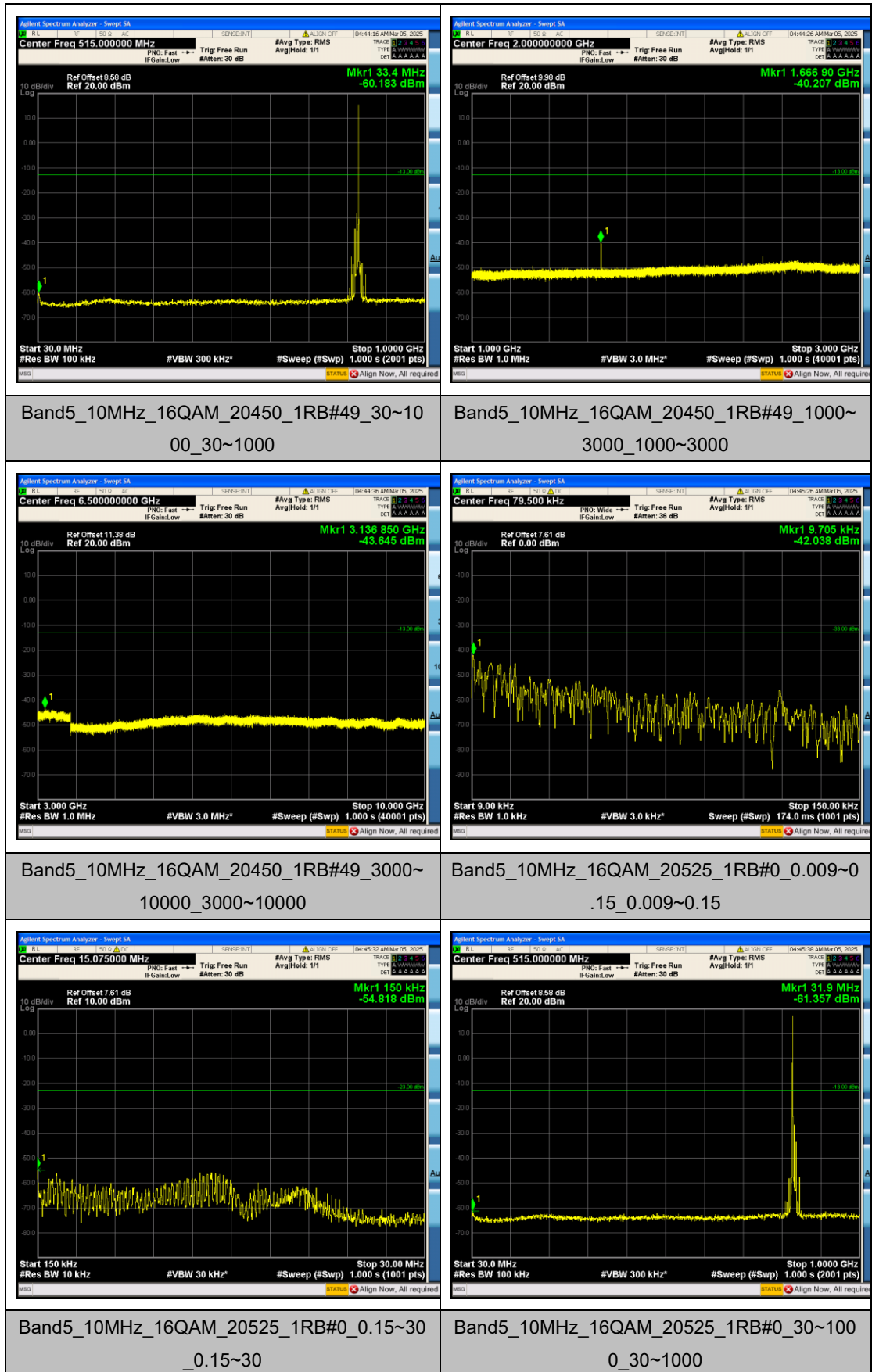


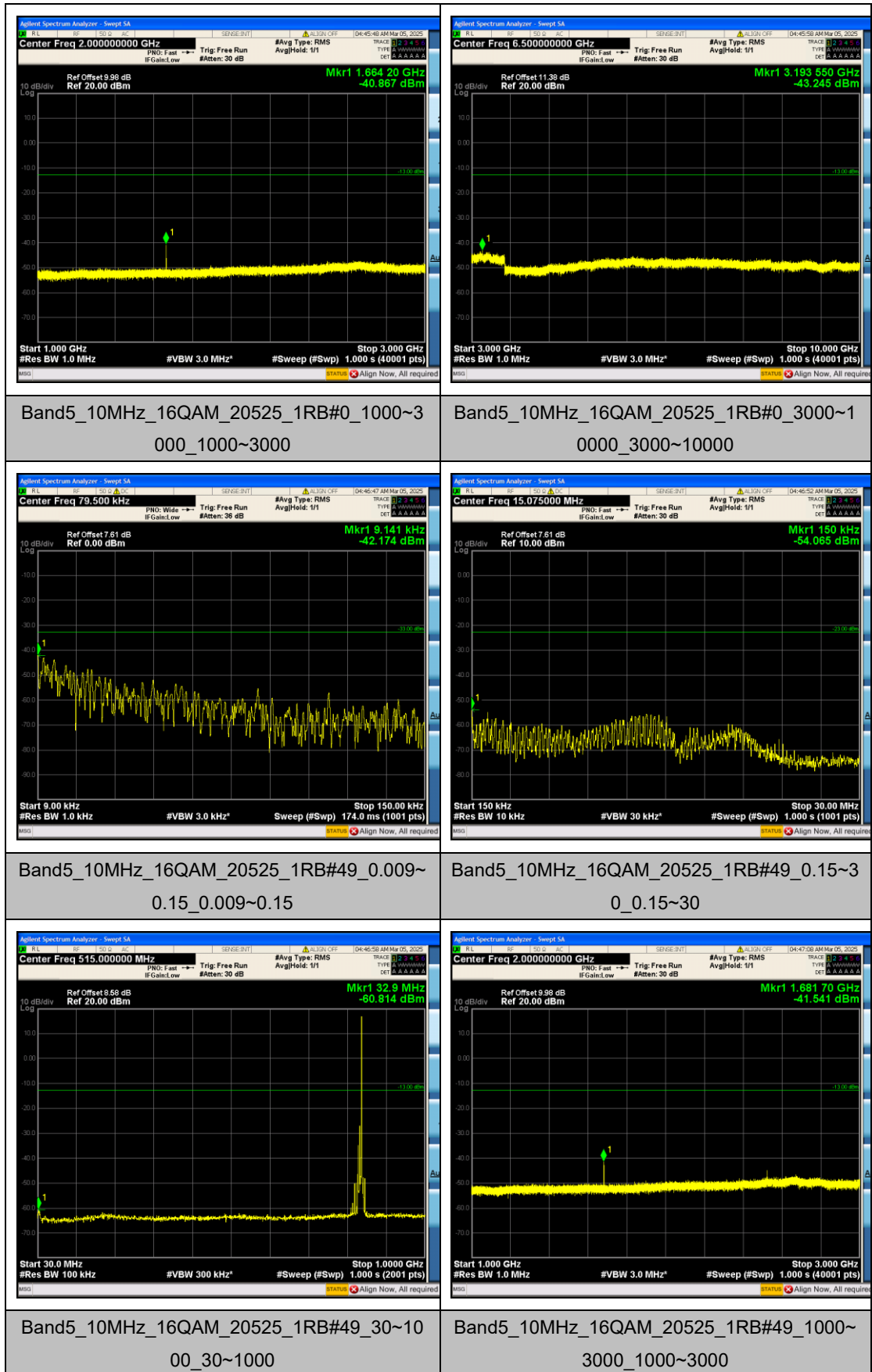


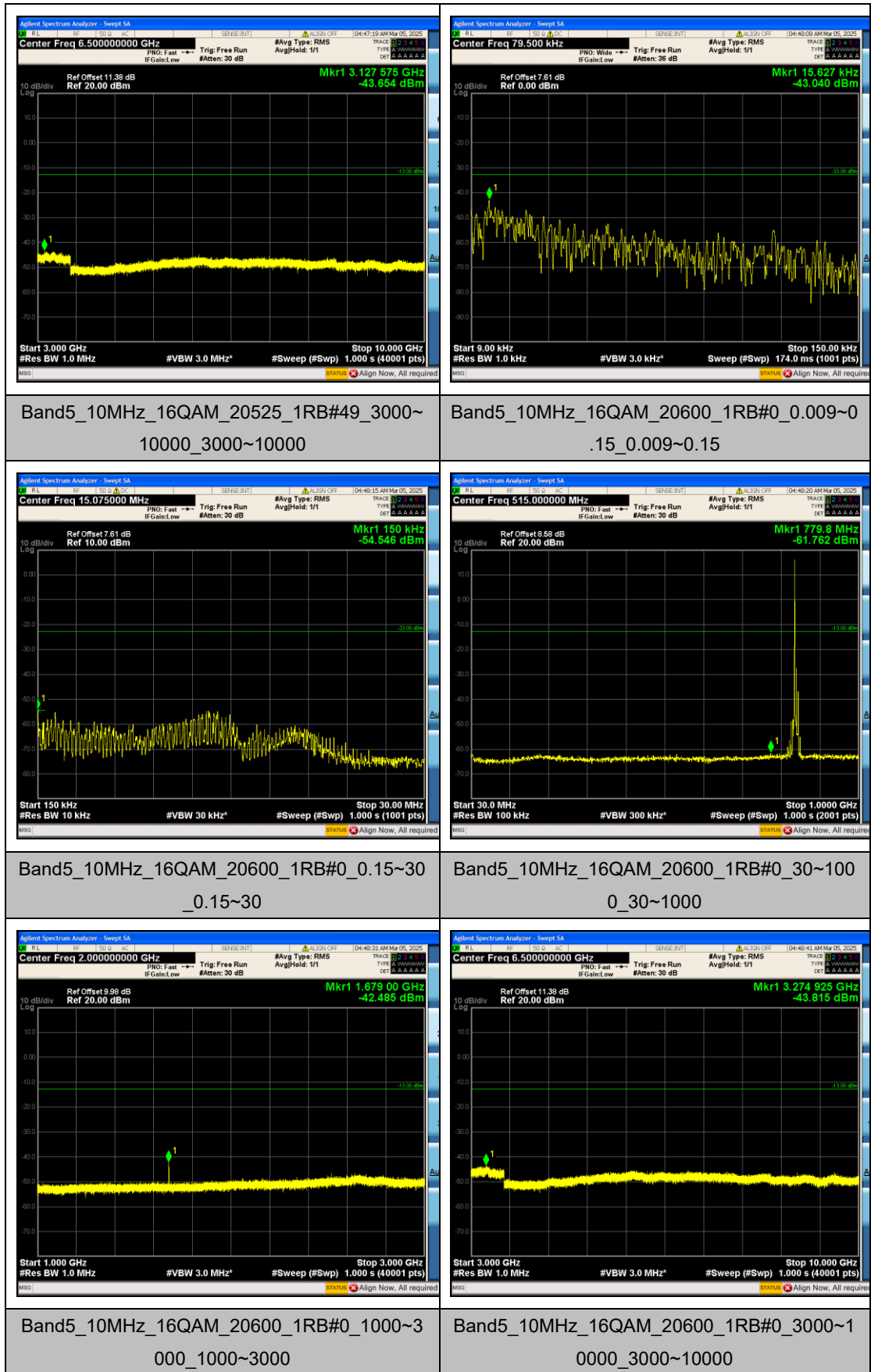


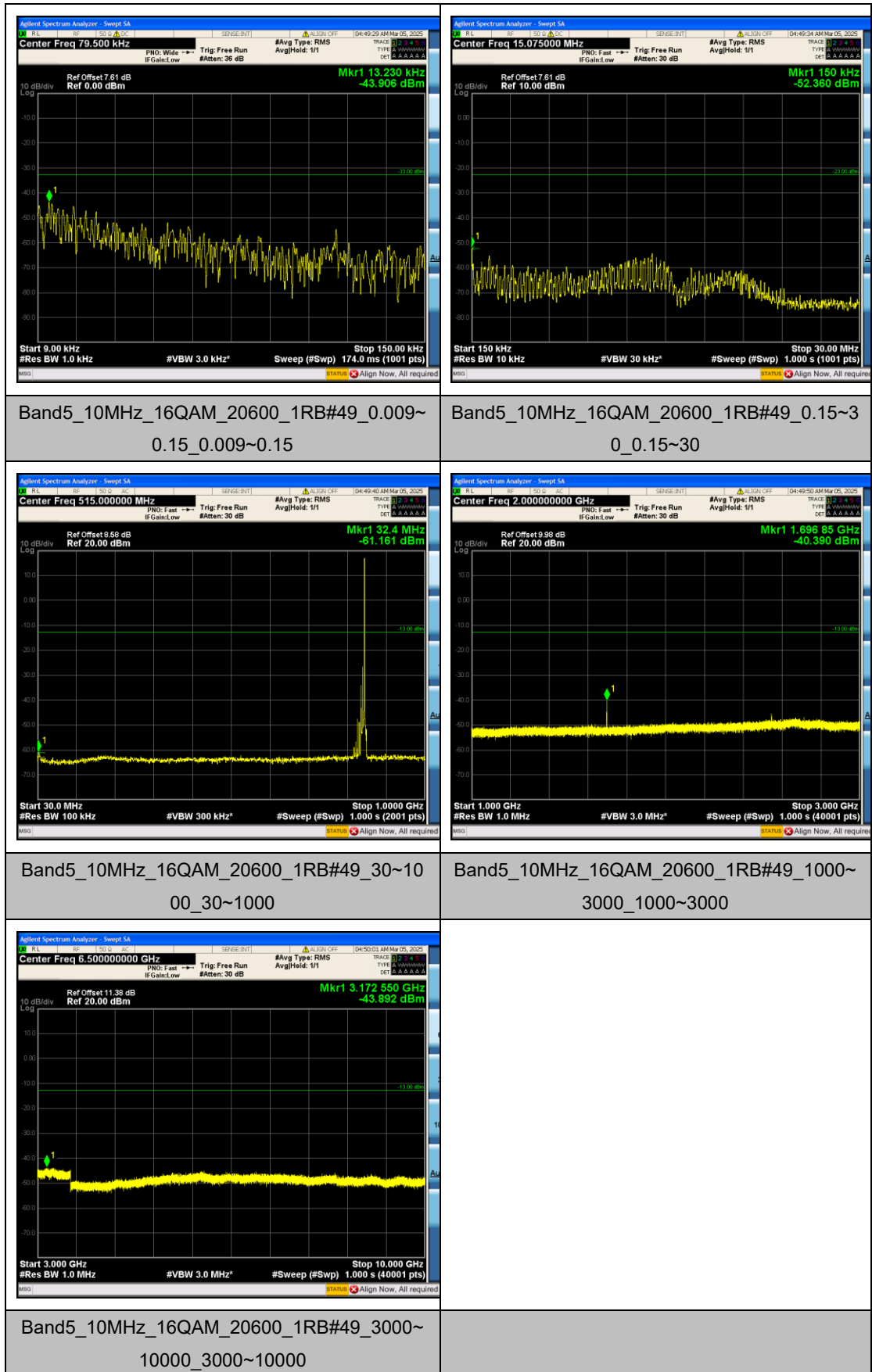












Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandName	Bandwidth	Modulation	Channel	RBcfg	VolValue	TempValue	ValueHz	ValuePpm	Limit	Verdict

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-16.24	-0.019692	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-18.44	-0.022360	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-10	-19.17	-0.023245	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-11.89	-0.014417	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-13.70	-0.016612	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-9.60	-0.011641	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	-10.41	-0.012623	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	-7.62	-0.009240	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	-6.14	-0.007445	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-5.97	-0.007137	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	-7.75	-0.009265	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	-5.81	-0.006946	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-4.75	-0.005678	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-3.81	-0.004555	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-6.88	-0.008225	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	-6.55	-0.007830	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	-2.57	-0.003072	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	-2.92	-0.003491	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	21.70	0.025581	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	19.57	0.023070	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-10	17.37	0.020476	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	16.44	0.019380	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	12.17	0.014346	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	8.23	0.009702	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	8.74	0.010303	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	5.78	0.006814	±2.5	PASS

Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	3.69	0.004350	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-4.32	-0.005238	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-3.52	-0.004268	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-10	4.13	0.005008	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-2.90	-0.003516	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	-2.92	-0.003541	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-2.73	-0.003310	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	-3.73	-0.004523	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	-2.63	-0.003189	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	-4.36	-0.005287	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-5.29	-0.006324	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-3.82	-0.004567	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-10	-2.32	-0.002773	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-2.57	-0.003072	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	2.36	0.002821	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-4.36	-0.005212	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-2.93	-0.003503	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-2.79	-0.003335	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-3.38	-0.004041	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-3.66	-0.004315	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	1.93	0.002275	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-10	-2.93	-0.003454	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	2.25	0.002652	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-3.95	-0.004656	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	-2.22	-0.002617	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	4.36	0.005140	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	3.95	0.004656	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	-2.15	-0.002534	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	3.79	0.004591	±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	-10	4.18	0.005064	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	3.16	0.003828	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	3.42	0.004143	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	1.60	0.001938	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	4.61	0.005584	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	3.66	0.004434	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	4.95	0.005996	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	5.29	0.006324	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	4.31	0.005152	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	3.62	0.004328	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	3.09	0.003694	±2.5	PASS

Band5	3MHz	QPSK	20525	15RB#0	NV	10	2.56	0.003060	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	3.56	0.004256	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	30	5.01	0.005989	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	4.02	0.004806	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	4.92	0.005882	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	2.90	0.003422	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	6.71	0.007917	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-10	4.23	0.004991	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	4.75	0.005605	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	6.17	0.007280	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	4.82	0.005687	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	3.49	0.004118	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	3.36	0.003965	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	3.71	0.004378	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	4.35	0.005270	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	4.53	0.005488	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-10	4.41	0.005342	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	5.08	0.006154	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	3.85	0.004664	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	4.66	0.005645	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	4.55	0.005512	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	40	5.98	0.007244	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	5.15	0.006239	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	3.66	0.004375	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	4.16	0.004973	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-10	2.98	0.003562	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	3.15	0.003766	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	3.45	0.004124	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	4.42	0.005284	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	3.08	0.003682	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	4.05	0.004842	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	3.71	0.004435	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	5.02	0.005923	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	5.16	0.006088	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-10	3.73	0.004401	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	4.84	0.005711	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	5.16	0.006088	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	4.68	0.005522	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	3.86	0.004555	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	3.55	0.004189	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	50	4.35	0.005133	±2.5	PASS

Band5	5MHz	QPSK	20425	25RB#0	NV	-30	3.12	0.003775	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	4.96	0.006001	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-10	3.49	0.004223	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	2.89	0.003497	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	2.30	0.002783	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	3.45	0.004174	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	30	2.26	0.002734	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	1.95	0.002359	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	2.00	0.002420	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	3.99	0.004770	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	3.76	0.004495	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	3.22	0.003849	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	-2.66	-0.003180	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	2.52	0.003013	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	2.29	0.002738	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	-12.46	-0.014895	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	3.39	0.004053	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	4.28	0.005117	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	1.62	0.001914	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	2.96	0.003497	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-10	2.47	0.002918	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	3.55	0.004194	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	3.65	0.004312	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	2.15	0.002540	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	3.81	0.004501	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	3.93	0.004643	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	3.48	0.004111	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-3.06	-0.003702	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	16.15	0.019540	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-10	-2.16	-0.002613	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-1.87	-0.002263	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-1.70	-0.002057	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	1.99	0.002408	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	-1.89	-0.002287	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	1.89	0.002287	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	3.09	0.003739	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	3.73	0.004459	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	2.70	0.003228	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-10	2.57	0.003072	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	4.82	0.005762	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	4.32	0.005164	±2.5	PASS

Band5	5MHz	16QAM	20525	25RB#0	NV	20	3.48	0.004160	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	4.78	0.005714	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	40	3.72	0.004447	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	5.62	0.006718	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	5.61	0.006627	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	4.89	0.005777	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-10	4.63	0.005470	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	6.11	0.007218	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	6.97	0.008234	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	4.52	0.005340	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	5.08	0.006001	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	3.68	0.004347	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	2.56	0.003024	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.37	-0.001653	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	1.40	0.001689	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	1.85	0.002232	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	3.36	0.004053	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	1.47	0.001773	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-1.42	-0.001713	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-2.56	-0.003088	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-2.12	-0.002557	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	1.33	0.001604	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	3.20	0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	3.28	0.003921	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	1.95	0.002331	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	1.96	0.002343	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	3.05	0.003646	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	3.46	0.004136	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	2.53	0.003025	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	3.20	0.003825	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-2.26	-0.002702	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	2.95	0.003495	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	2.16	0.002559	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	3.06	0.003626	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-2.66	-0.003152	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	1.30	0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	1.89	0.002239	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	1.17	0.001386	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	2.56	0.003033	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	3.45	0.004088	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	PASS
Band5	3MHz	QPSK	20415	15RB#0	PASS
Band5	3MHz	QPSK	20525	15RB#0	PASS
Band5	3MHz	QPSK	20635	15RB#0	PASS
Band5	3MHz	16QAM	20415	15RB#0	PASS
Band5	3MHz	16QAM	20525	15RB#0	PASS
Band5	3MHz	16QAM	20635	15RB#0	PASS
Band5	5MHz	QPSK	20425	25RB#0	PASS
Band5	5MHz	QPSK	20525	25RB#0	PASS
Band5	5MHz	QPSK	20625	25RB#0	PASS
Band5	5MHz	16QAM	20425	25RB#0	PASS
Band5	5MHz	16QAM	20525	25RB#0	PASS
Band5	5MHz	16QAM	20625	25RB#0	PASS
Band5	10MHz	QPSK	20450	50RB#0	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS
Band5	10MHz	QPSK	20600	50RB#0	PASS
Band5	10MHz	16QAM	20450	1RB#0	PASS
Band5	10MHz	16QAM	20525	1RB#0	PASS
Band5	10MHz	16QAM	20600	1RB#0	PASS

Test Graphs

