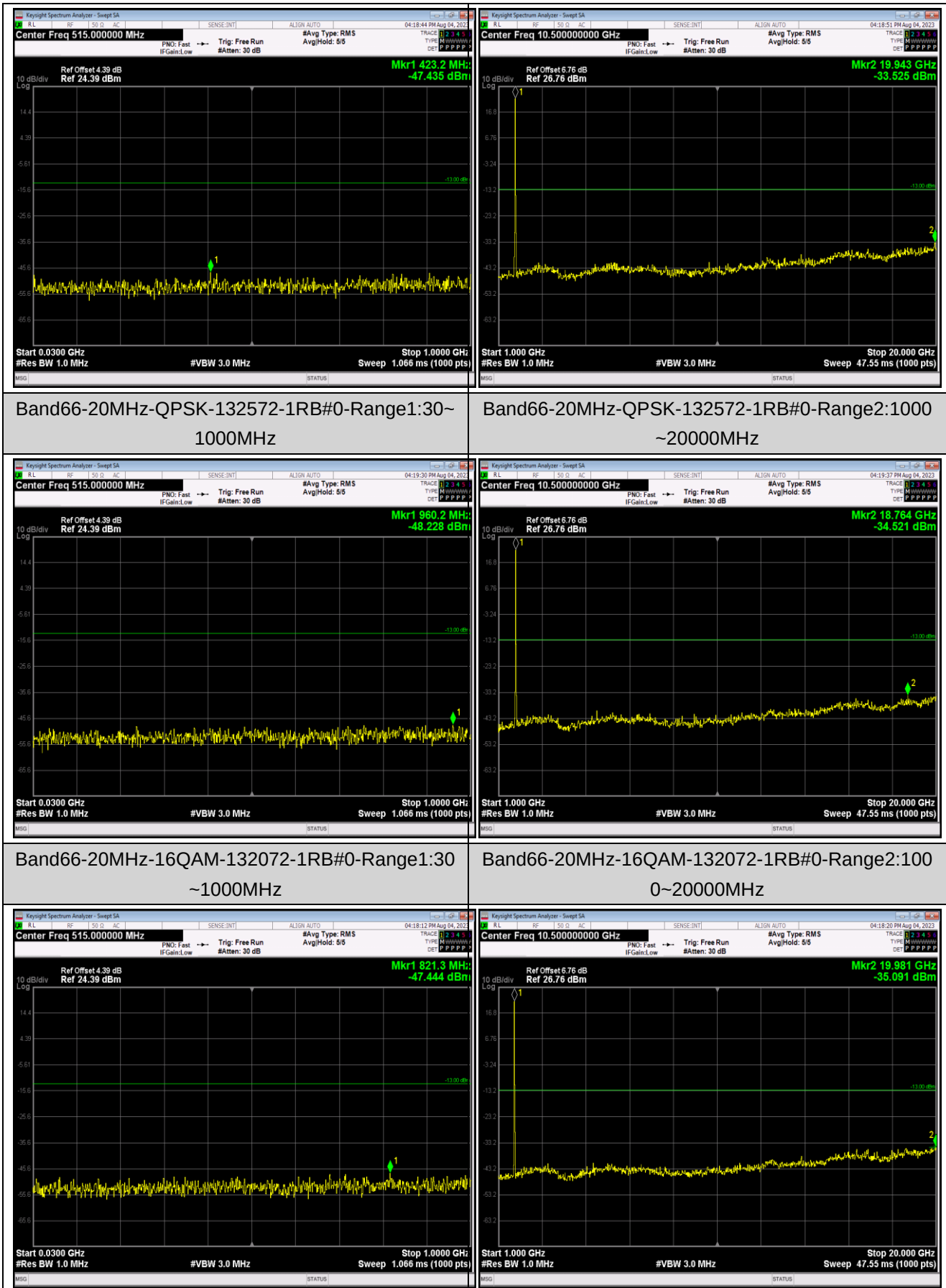
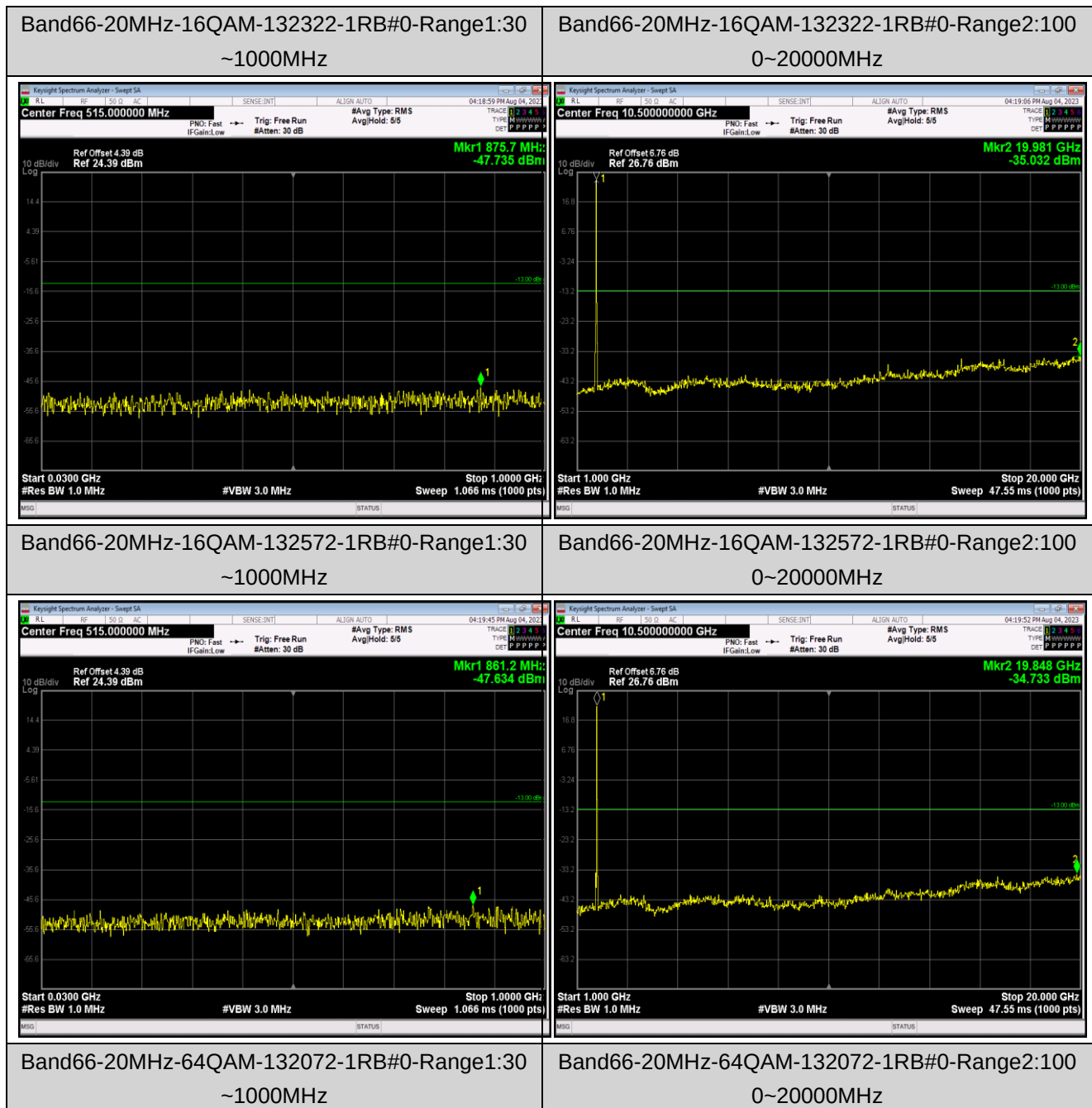
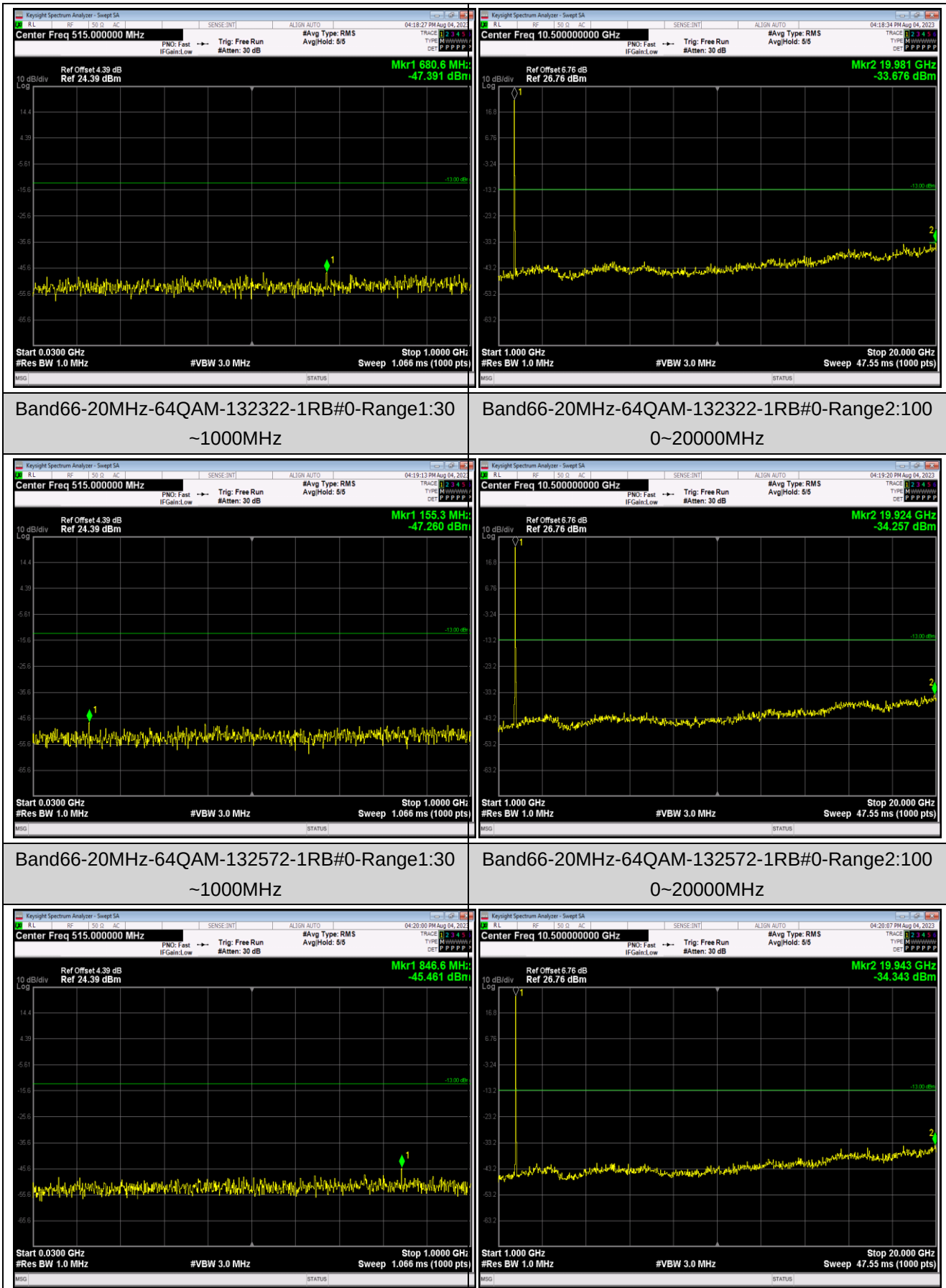
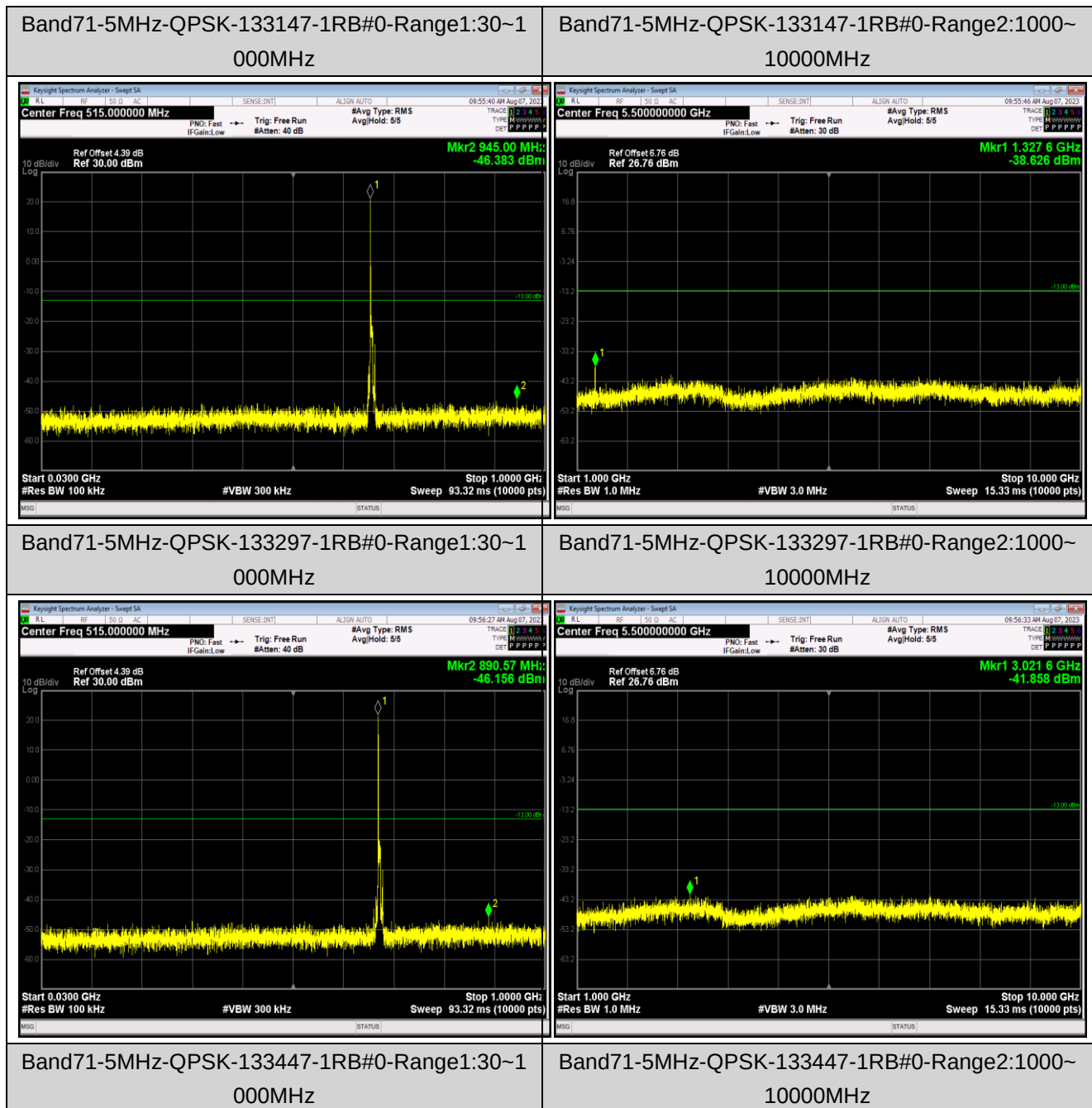
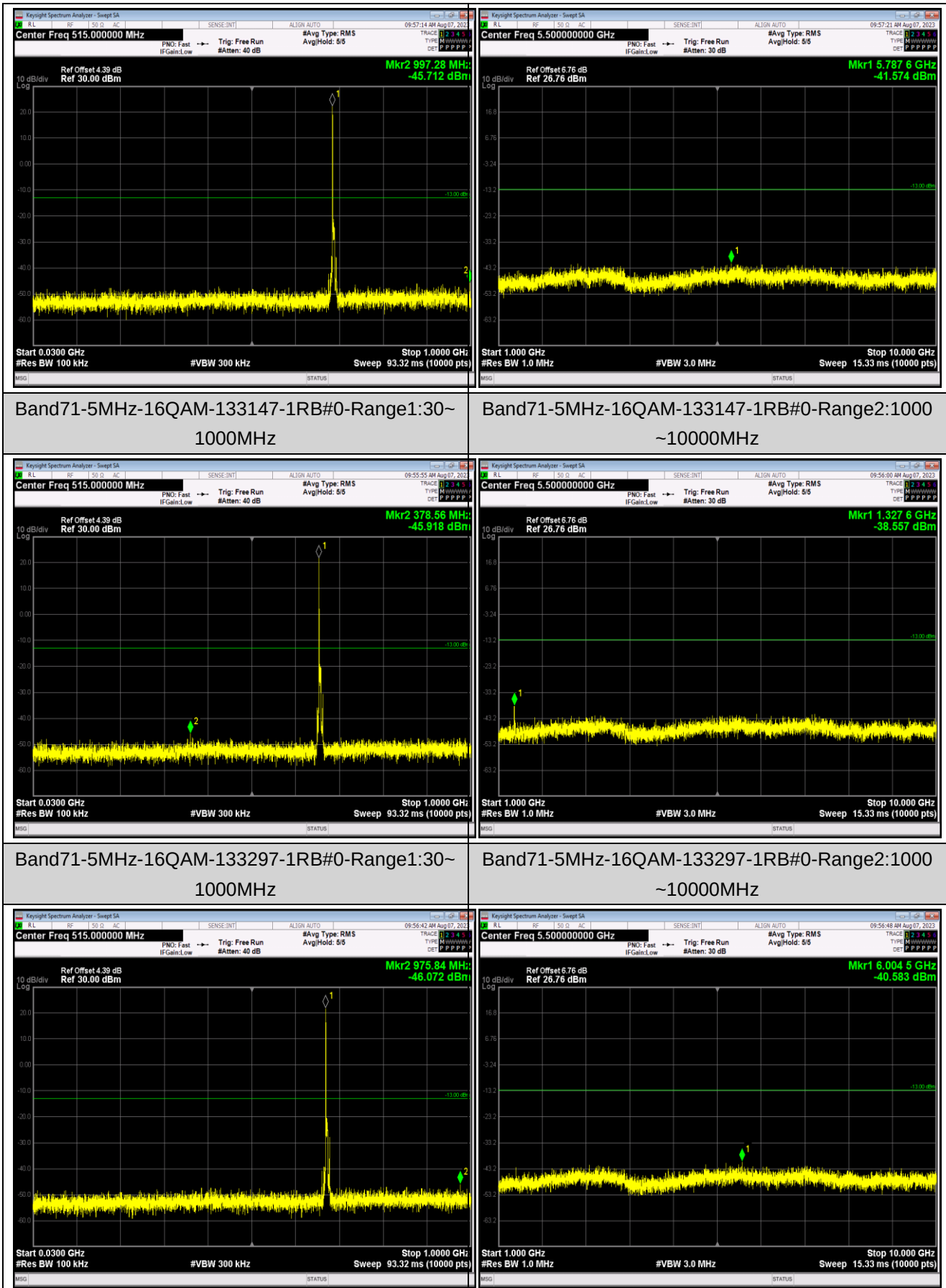


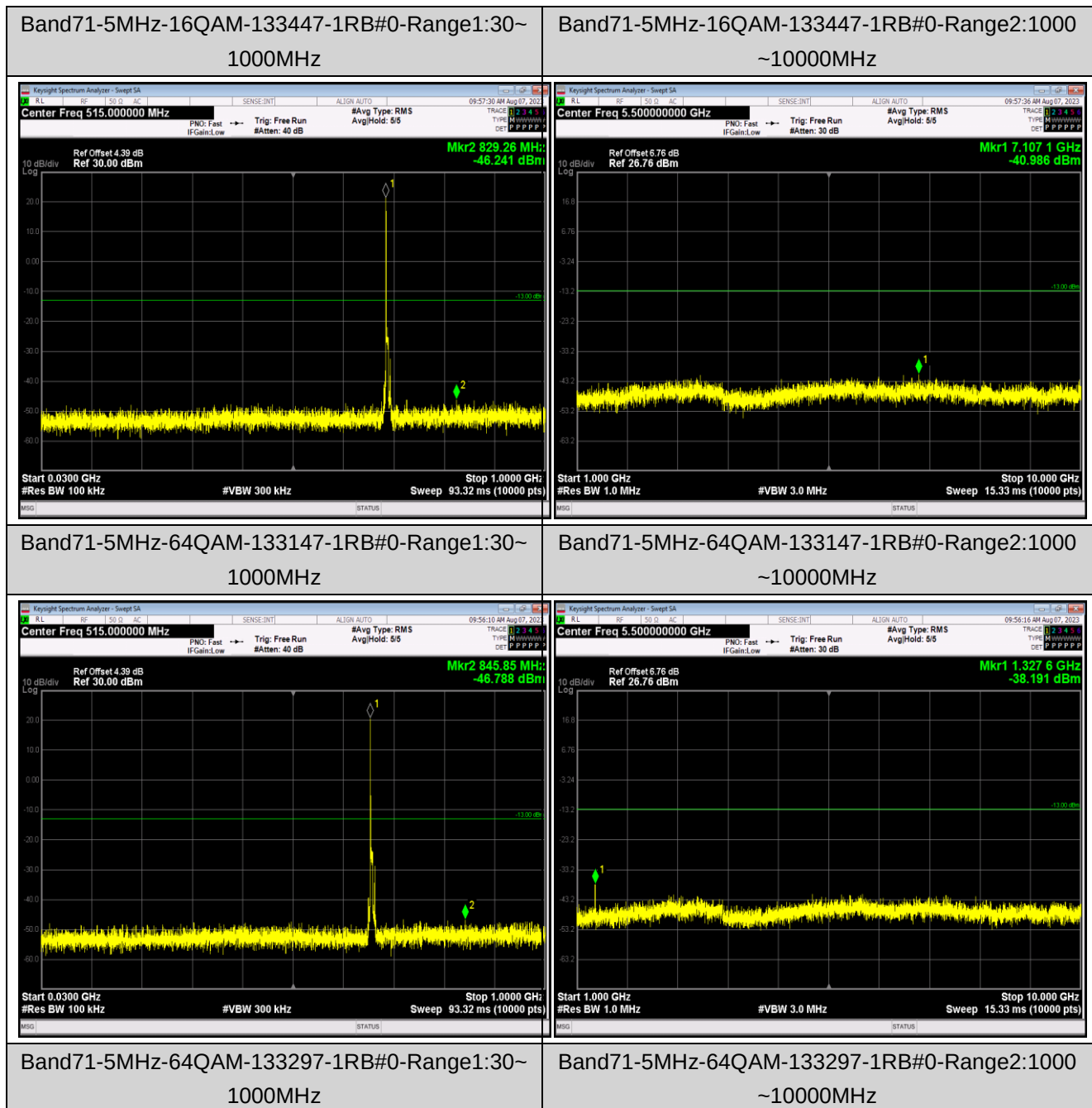


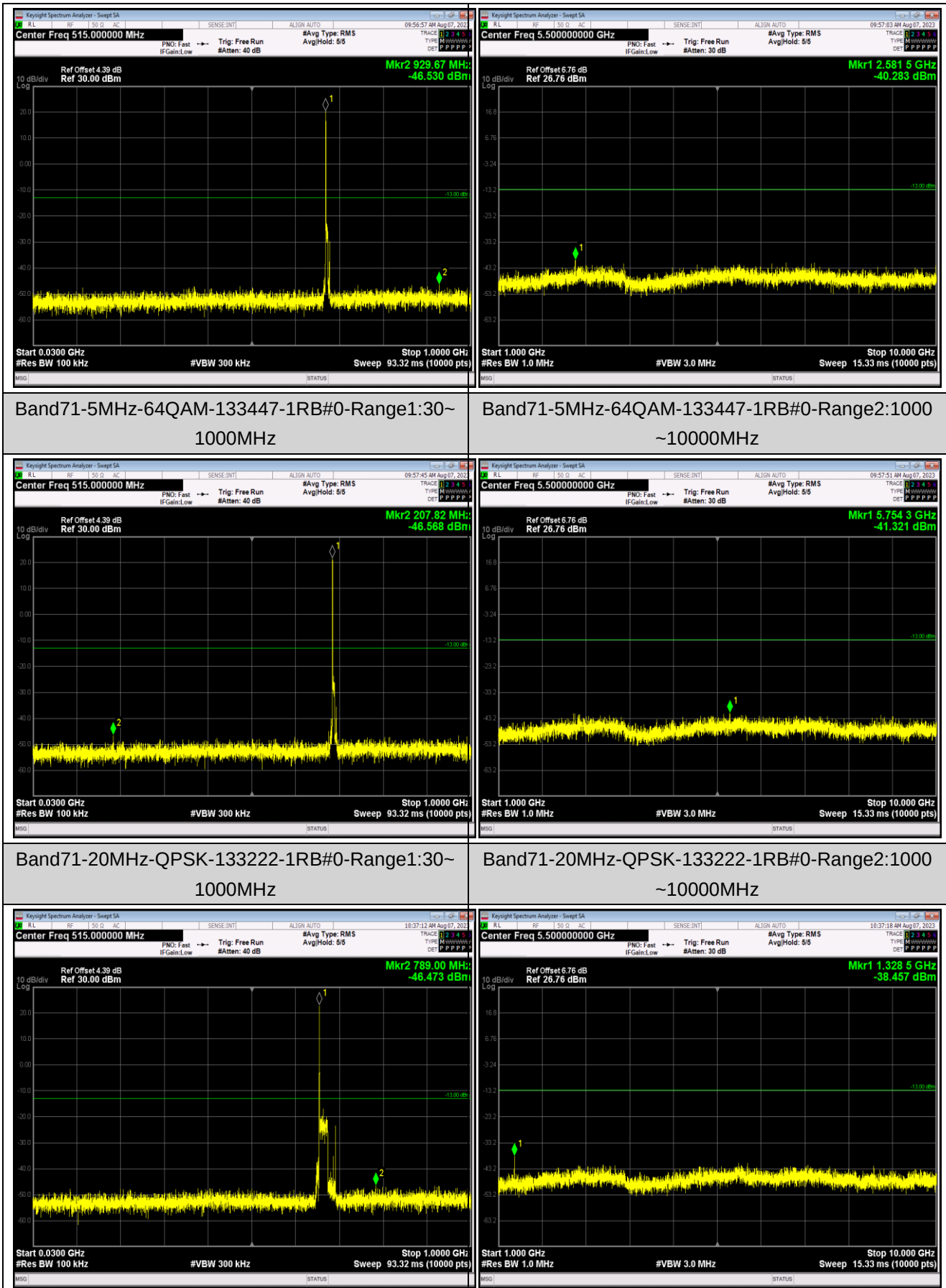


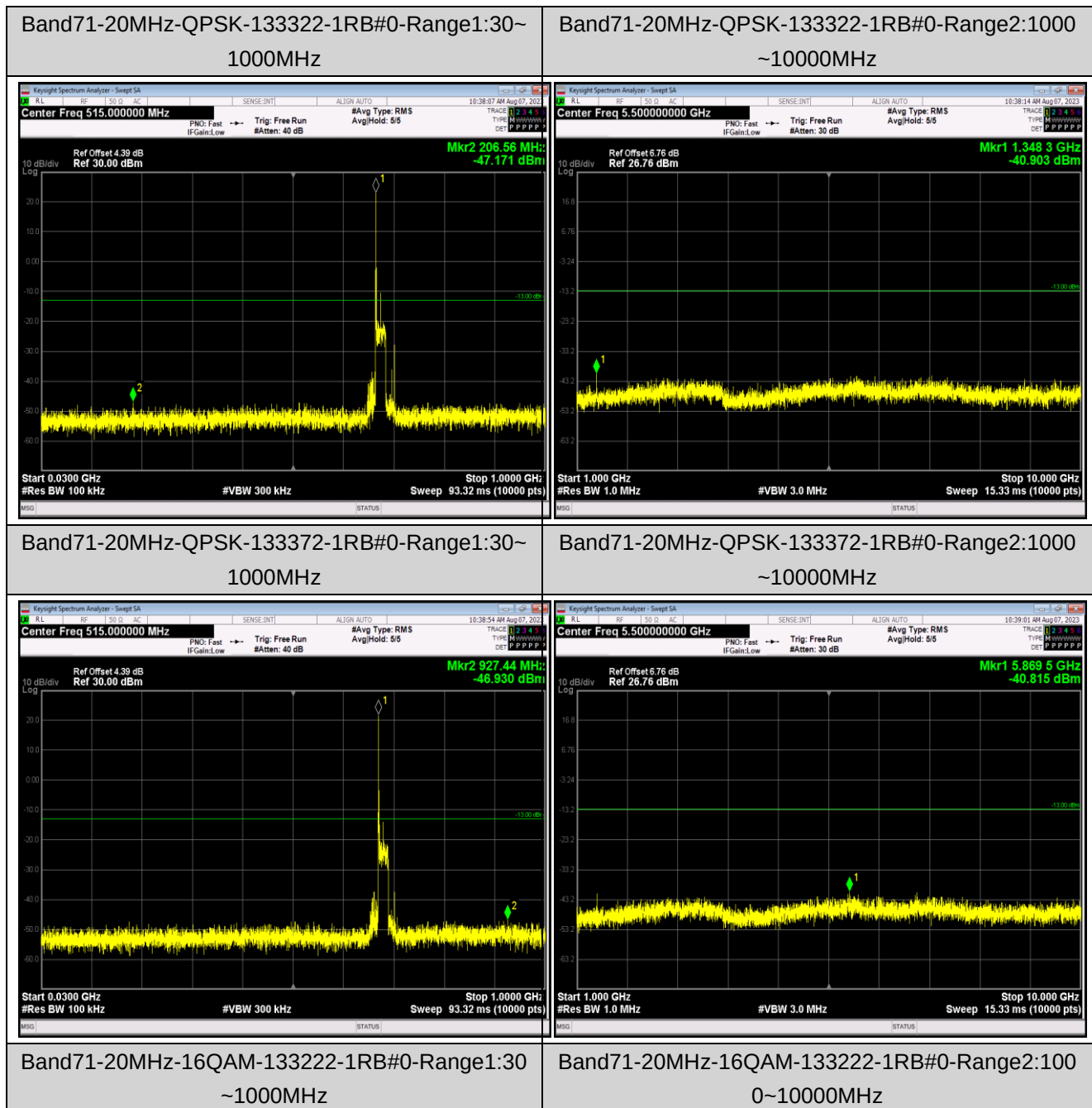


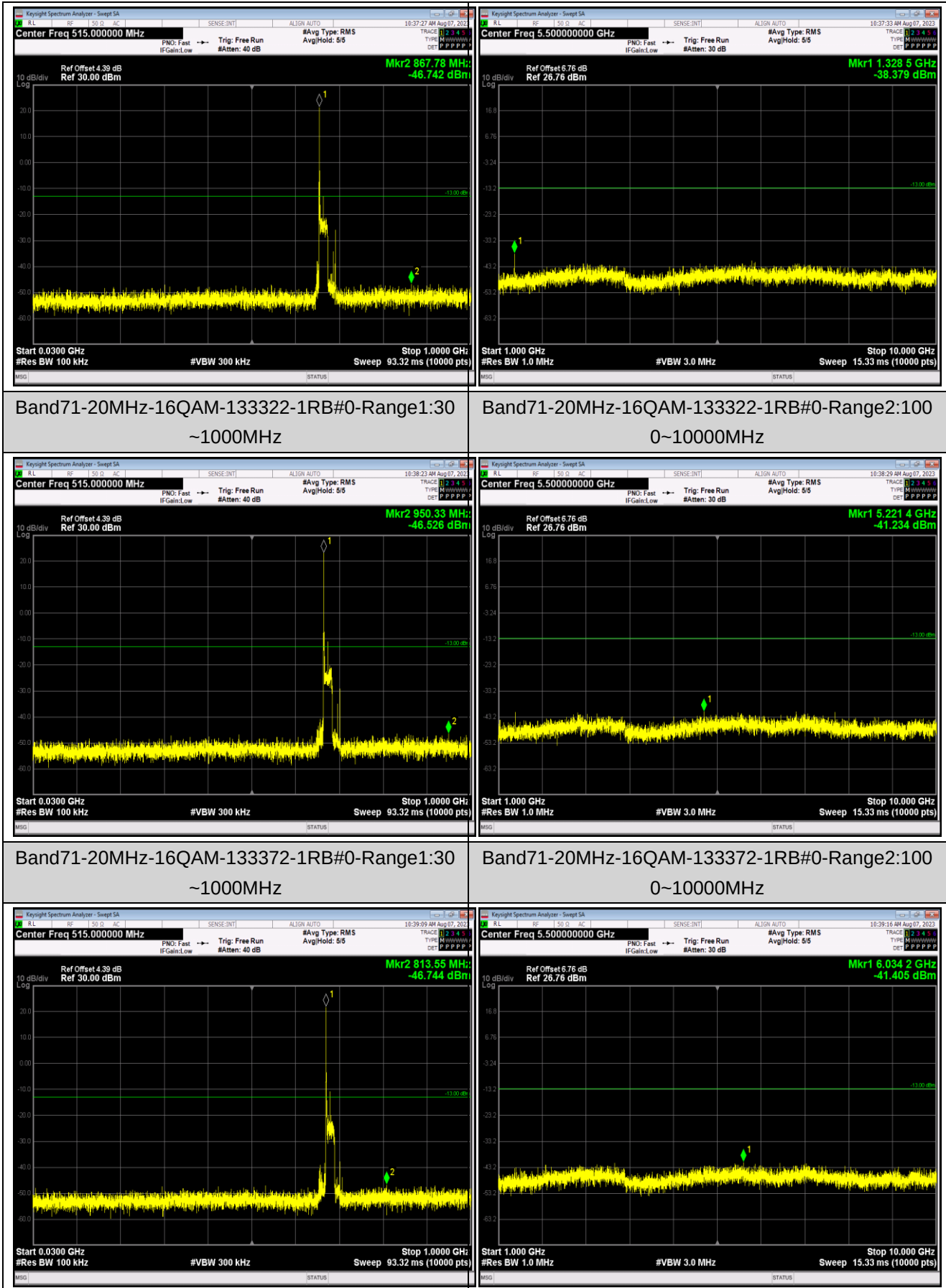


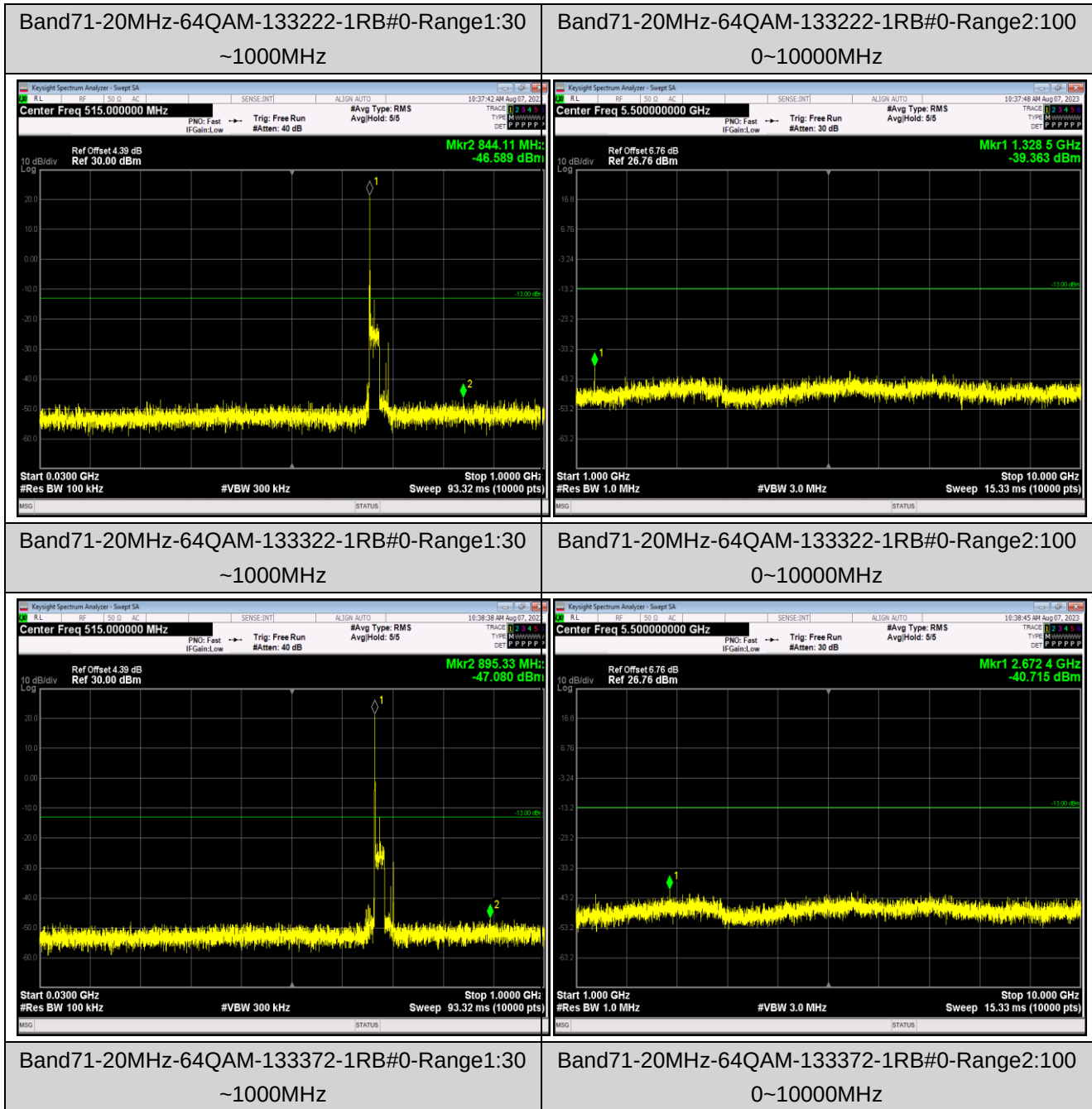


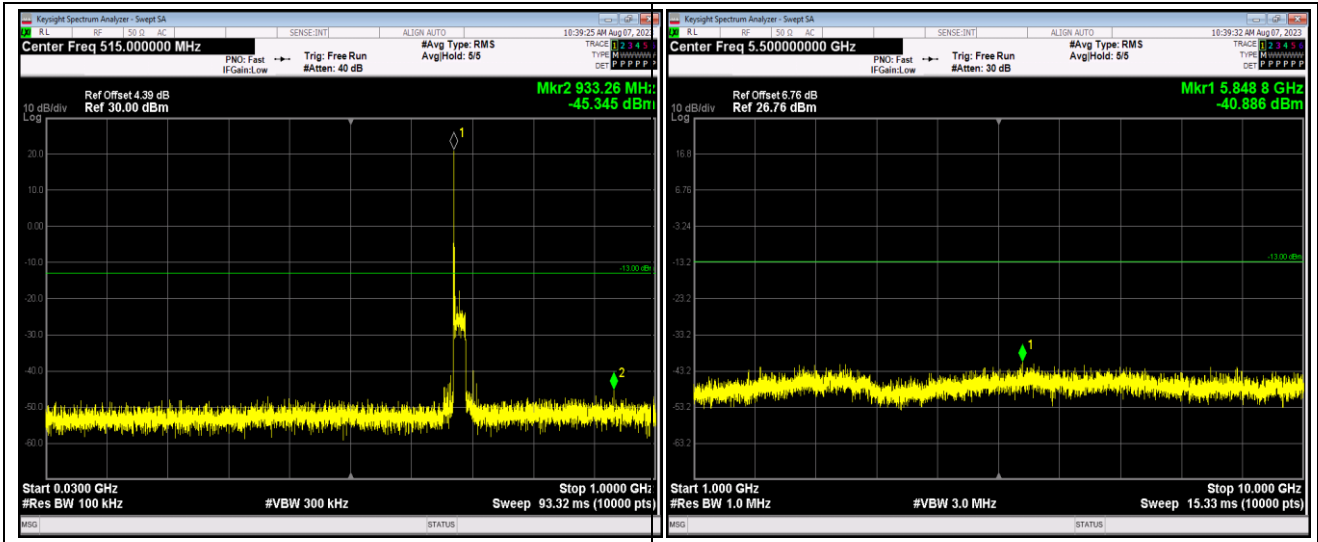












Appendix F: Frequency Stability

Test Result

LTE Band 2 part:

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 Frequency=1880.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	8.85	0.004707	Within authorized band for Band 2	Pass
	-20	8.58	0.004564		
	-10	-7.57	-0.004027		
	0	4.84	0.002574		
	10	11.62	0.006181		
	20	-3.81	-0.002027		
	30	12.16	0.006468		
	40	7.35	0.003910		
	50	7.88	0.004191		
16QAM					
3.87	-30	8.98	0.004777	Within authorized band for Band 2	Pass
	-20	-7.88	-0.004191		
	-10	-11.14	-0.005926		
	0	-4.88	-0.002596		
	10	-4.94	-0.002628		
	20	-10.46	-0.005564		
	30	3.91	0.002080		
	40	-10.16	-0.005404		
	50	3.36	0.001787		
64QAM					
3.87	-30	6.59	0.003505	Within authorized band for Band 2	Pass
	-20	-7.87	-0.004186		
	-10	3.99	0.002122		
	0	9.10	0.004840		
	10	-4.84	-0.002574		
	20	6.98	0.003713		
	30	4.03	0.002144		
	40	3.45	0.001835		
	50	-6.62	-0.003521		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	9.41	0.005005	Within authorized band for Band 2	Pass
	3.87	-12.65	-0.006729		
	4.45	3.86	0.002053		
16QAM					
25	3.40	-5.95	-0.003165	Within authorized band for Band 2	Pass
	3.87	4.59	0.002441		
	4.45	-6.58	-0.003500		
64QAM					
25	3.40	-9.46	-0.005032	Within authorized band for Band 2	Pass
	3.87	-5.22	-0.002777		
	4.45	-9.38	-0.004989		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 4 part:

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 Frequency=1732.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-7.14	-0.004121	Within authorized band for Band 4	Pass
	-20	-5.88	-0.003394		
	-10	-4.19	-0.002418		
	0	3.69	0.002130		
	10	-2.98	-0.001720		
	20	-8.30	-0.004791		
	30	-7.20	-0.004156		
	40	-7.30	-0.004214		
	50	-5.42	-0.003128		
16QAM					
3.87	-30	-5.01	-0.002892	Within authorized band for Band 4	Pass
	-20	-2.70	-0.001558		
	-10	-7.65	-0.004416		
	0	-7.61	-0.004392		
	10	-6.69	-0.003861		
	20	-3.88	-0.002240		
	30	-4.55	-0.002626		
	40	-4.73	-0.002730		
	50	-9.64	-0.005564		
64QAM					
3.87	-30	-9.17	-0.005293	Within authorized band for Band 4	Pass
	-20	1.60	0.000924		
	-10	3.05	0.001760		
	0	-5.34	-0.003082		
	10	-4.98	-0.002874		
	20	-7.01	-0.004046		
	30	4.35	0.002511		
	40	-3.82	-0.002205		
	50	-2.68	-0.001547		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-5.06	-0.002921	Within authorized band for Band 4	Pass
	3.87	-9.64	-0.005564		
	4.45	-6.72	-0.003879		
16QAM					
25	3.40	-4.46	-0.002574	Within authorized band for Band 4	Pass
	3.87	-2.70	-0.001558		
	4.45	-8.88	-0.005126		
64QAM					
25	3.40	-5.49	-0.003169	Within authorized band for Band 4	Pass
	3.87	-4.25	-0.002453		
	4.45	3.16	0.001824		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 Frequency=836.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-6.34	-0.007579	±2.5	Pass
	-20	-2.26	-0.002702		
	-10	-5.84	-0.006981		
	0	-2.45	-0.002929		
	10	-2.06	-0.002463		
	20	-3.33	-0.003981		
	30	-6.59	-0.007878		
	40	-5.88	-0.007029		
	50	4.35	0.005200		
16QAM					
3.87	-30	-4.81	-0.005750	±2.5	Pass
	-20	-5.39	-0.006444		
	-10	-1.97	-0.002355		
	0	-1.34	-0.001602		
	10	-7.20	-0.008607		
	20	-5.89	-0.007041		
	30	-9.90	-0.011835		
	40	-2.15	-0.002570		
	50	-6.38	-0.007627		
64QAM					
3.87	-30	-2.53	-0.003025	±2.5	Pass
	-20	-6.62	-0.007914		
	-10	-3.65	-0.004363		
	0	-3.39	-0.004053		
	10	5.02	0.006001		
	20	-6.67	-0.007974		
	30	4.84	0.005786		
	40	-1.75	-0.002092		
	50	-1.79	-0.002140		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-7.01	-0.008380	±2.5	Pass
	3.87	-11.16	-0.013341		
	4.45	-8.61	-0.010293		
16QAM					
25	3.40	-5.99	-0.007161	±2.5	Pass
	3.87	-5.54	-0.006623		
	4.45	-1.96	-0.002343		
64QAM					
25	3.40	-3.92	-0.004686	±2.5	Pass
	3.87	-6.59	-0.007878		
	4.45	4.09	0.004889		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	11.23	0.004430	Within authorized band for Band 7	Pass
	-20	-7.82	-0.003085		
	-10	-2.37	-0.000935		
	0	12.72	0.005018		
	10	-5.56	-0.002193		
	20	-13.93	-0.005495		
	30	-8.75	-0.003452		
	40	-6.68	-0.002635		
	50	-20.06	-0.007913		
16QAM					
3.87	-30	-8.35	-0.003294	Within authorized band for Band 7	Pass
	-20	-6.27	-0.002473		
	-10	-11.43	-0.004509		
	0	5.61	0.002213		
	10	-6.74	-0.002659		
	20	-4.53	-0.001787		
	30	3.66	0.001444		
	40	2.53	0.000998		
	50	3.13	0.001235		
64QAM					
3.87	-30	-12.30	-0.004852	Within authorized band for Band 7	Pass
	-20	10.87	0.004288		
	-10	-7.88	-0.003108		
	0	-10.63	-0.004193		
	10	-12.83	-0.005061		
	20	-9.46	-0.003732		
	30	-15.39	-0.006071		
	40	9.78	0.003858		
	50	-4.42	-0.001744		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-7.95	-0.003136	Within authorized band for Band 7	Pass
	3.87	-16.71	-0.006592		
	4.45	-3.46	-0.001365		
16QAM					
25	3.40	-9.01	-0.003554	Within authorized band for Band 7	Pass
	3.87	-4.79	-0.001890		
	4.45	-10.43	-0.004114		
64QAM					
25	3.40	8.93	0.003523	Within authorized band for Band 7	Pass
	3.87	3.30	0.001302		
	4.45	-8.84	-0.003487		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 12 part:

Reference Frequency: LTE Band 12(10MHz) Middle channel=23095 Frequency=707.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-6.28	-0.008876	Within authorized band for Band 12	Pass
	-20	-5.38	-0.007604		
	-10	-6.11	-0.008636		
	0	-1.96	-0.002770		
	10	-3.49	-0.004933		
	20	-4.66	-0.006587		
	30	-4.06	-0.005739		
	40	-3.81	-0.005385		
	50	-3.98	-0.005625		
16QAM					
3.87	-30	-6.14	-0.008678	Within authorized band for Band 12	Pass
	-20	-5.75	-0.008127		
	-10	-3.18	-0.004495		
	0	-8.30	-0.011731		
	10	-6.59	-0.009314		
	20	-9.71	-0.013724		
	30	-2.95	-0.004170		
	40	-3.29	-0.004650		
	50	-5.06	-0.007152		
64QAM					
3.87	-30	-8.03	-0.011350	Within authorized band for Band 12	Pass
	-20	-3.95	-0.005583		
	-10	-4.46	-0.006304		
	0	-5.84	-0.008254		
	10	-5.16	-0.007293		
	20	-8.27	-0.011689		
	30	-8.96	-0.012664		
	40	-2.89	-0.004085		
	50	-2.32	-0.003279		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-8.13	-0.011491	Within authorized band for Band 12	Pass
	3.87	-6.79	-0.009597		
	4.45	-6.18	-0.008735		
16QAM					
25	3.40	-5.22	-0.007378	Within authorized band for Band 12	Pass
	3.87	-3.65	-0.005159		
	4.45	-4.18	-0.005908		
64QAM					
25	3.40	-4.46	-0.006304	Within authorized band for Band 12	Pass
	3.87	-3.48	-0.004919		
	4.45	-7.65	-0.010813		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 13 part:

Reference Frequency: LTE Band 12(10MHz) Middle channel=2230 Frequency=782.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-5.61	-0.007174	Within authorized band for Band 13	Pass
	-20	-6.42	-0.008210		
	-10	-8.28	-0.010588		
	0	-6.42	-0.008210		
	10	-6.35	-0.008120		
	20	-6.41	-0.008197		
	30	-7.41	-0.009476		
	40	-5.52	-0.007059		
	50	-4.88	-0.006240		
16QAM					
3.87	-30	1.57	0.002008	Within authorized band for Band 13	Pass
	-20	-7.88	-0.010077		
	-10	-4.33	-0.005537		
	0	-6.18	-0.007903		
	10	-4.78	-0.006113		
	20	-6.22	-0.007954		
	30	-12.17	-0.015563		
	40	-4.13	-0.005281		
	50	-5.62	-0.007187		
64QAM					
3.87	-30	-5.31	-0.006790	Within authorized band for Band 13	Pass
	-20	-8.63	-0.011036		
	-10	-4.21	-0.005384		
	0	-5.12	-0.006547		
	10	-7.07	-0.009041		
	20	-4.43	-0.005665		
	30	-4.73	-0.006049		
	40	-4.85	-0.006202		
	50	-5.85	-0.007481		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-6.88	-0.008798	Within authorized band for Band 13	Pass
	3.87	-6.07	-0.007762		
	4.45	-5.98	-0.007647		
16QAM					
25	3.40	-5.39	-0.006893	Within authorized band for Band 13	Pass
	3.87	-7.17	-0.009169		
	4.45	-5.64	-0.007212		
64QAM					
25	3.40	-2.96	-0.003785	Within authorized band for Band 13	Pass
	3.87	-3.23	-0.004130		
	4.45	-8.37	-0.010703		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 17 part:

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 Frequency=710.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-2.59	-0.003648	Within authorized band for Band 17	Pass
	-20	-7.32	-0.010310		
	-10	-6.04	-0.008507		
	0	-5.51	-0.007761		
	10	2.72	0.003831		
	20	-5.85	-0.008239		
	30	2.59	0.003648		
	40	-4.38	-0.006169		
	50	-3.98	-0.005606		
16QAM					
3.87	-30	2.90	0.004085	Within authorized band for Band 17	Pass
	-20	3.19	0.004493		
	-10	-6.38	-0.008986		
	0	2.23	0.003141		
	10	-7.30	-0.010282		
	20	-4.89	-0.006887		
	30	-4.09	-0.005761		
	40	-5.94	-0.008366		
	50	-4.18	-0.005887		
64QAM					
3.87	-30	-3.53	-0.004972	Within authorized band for Band 17	Pass
	-20	-3.32	-0.004676		
	-10	-4.73	-0.006662		
	0	-2.23	-0.003141		
	10	-8.23	-0.011592		
	20	-3.28	-0.004620		
	30	3.59	0.005056		
	40	-7.90	-0.011127		
	50	-2.79	-0.003930		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	3.00	0.004225	Within authorized band for Band 17	Pass
	3.87	-3.12	-0.004394		
	4.45	-5.62	-0.007915		
16QAM					
25	3.40	-5.56	-0.007831	Within authorized band for Band 17	Pass
	3.87	-2.53	-0.003563		
	4.45	-5.08	-0.007155		
64QAM					
25	3.40	-2.76	-0.003887	Within authorized band for Band 17	Pass
	3.87	-4.46	-0.006282		
	4.45	-5.92	-0.008338		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 25 part:

Reference Frequency: LTE Band 38(10MHz) Middle channel=26365 Frequency=1882.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-5.06	-0.002688	Within authorized band for Band 25	Pass
	-20	-11.42	-0.006066		
	-10	-12.06	-0.006406		
	0	-10.13	-0.005381		
	10	8.78	0.004664		
	20	9.08	0.004823		
	30	-5.52	-0.002932		
	40	8.14	0.004324		
	50	10.66	0.005663		
16QAM					
3.87	-30	10.61	0.005636	Within authorized band for Band 25	Pass
	-20	10.81	0.005742		
	-10	-5.66	-0.003007		
	0	5.05	0.002683		
	10	-13.56	-0.007203		
	20	8.27	0.004393		
	30	-3.88	-0.002061		
	40	-11.43	-0.006072		
	50	2.82	0.001498		
64QAM					
3.87	-30	10.31	0.005477	Within authorized band for Band 25	Pass
	-20	4.42	0.002348		
	-10	-9.47	-0.005031		
	0	-10.33	-0.005487		
	10	-4.29	-0.002279		
	20	-12.43	-0.006603		
	30	-9.88	-0.005248		
	40	-7.38	-0.003920		
	50	13.40	0.007118		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-5.04	-0.002677	Within authorized band for Band 25	Pass
	3.87	-10.04	-0.005333		
	4.45	-13.32	-0.007076		
16QAM					
25	3.40	-12.87	-0.006837	Within authorized band for Band 25	Pass
	3.87	-11.82	-0.006279		
	4.45	-13.45	-0.007145		
64QAM					
25	3.40	-11.03	-0.005859	Within authorized band for Band 25	Pass
	3.87	-11.79	-0.006263		
	4.45	-9.21	-0.004892		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 26(Part90) part:

Reference Frequency: LTE Band 26 (10MHz) Middle channel=26740 Frequency=819.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-8.17	-0.009976	±2.5	Pass
	-20	-3.99	-0.004872		
	-10	1.40	0.001709		
	0	-4.13	-0.005043		
	10	-4.36	-0.005324		
	20	-6.34	-0.007741		
	30	7.05	0.008608		
	40	-4.12	-0.005031		
	50	-8.17	-0.009976		
16QAM					
3.87	-30	-3.55	-0.004335	±2.5	Pass
	-20	-3.92	-0.004786		
	-10	-3.23	-0.003944		
	0	-3.43	-0.004188		
	10	-4.13	-0.005043		
	20	-6.47	-0.007900		
	30	-7.05	-0.008608		
	40	4.43	0.005409		
	50	-2.15	-0.002625		
64QAM					
3.87	-30	1.54	0.001880	±2.5	Pass
	-20	-6.55	-0.007998		
	-10	-4.56	-0.005568		
	0	-6.41	-0.007827		
	10	-4.82	-0.005885		
	20	-5.08	-0.006203		
	30	-3.08	-0.003761		
	40	-4.38	-0.005348		
	50	-6.62	-0.008083		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-4.63	-0.005653	±2.5	Pass
	3.87	-3.12	-0.003810		
	4.45	-5.91	-0.007216		
16QAM					
25	3.40	-3.82	-0.004664	±2.5	Pass
	3.87	-3.28	-0.004005		
	4.45	-7.88	-0.009621		
64QAM					
25	3.40	-5.71	-0.006972	±2.5	Pass
	3.87	-6.57	-0.008022		
	4.45	-6.78	-0.008278		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 26(Part22) part:

Reference Frequency: LTE Band 26 (10MHz) Middle channel=26915 Frequency=836.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-3.16	-0.003778	±2.5	Pass
	-20	-5.48	-0.006551		
	-10	-8.44	-0.010090		
	0	-2.03	-0.002427		
	10	-5.06	-0.006049		
	20	-5.38	-0.006432		
	30	-8.40	-0.010042		
	40	-5.76	-0.006886		
	50	-5.55	-0.006635		
16QAM					
3.87	-30	-2.98	-0.003562	±2.5	Pass
	-20	1.50	0.001793		
	-10	-5.97	-0.007137		
	0	-3.68	-0.004399		
	10	-4.42	-0.005284		
	20	-3.13	-0.003742		
	30	-8.80	-0.010520		
	40	-7.27	-0.008691		
	50	-4.51	-0.005392		
64QAM					
3.87	-30	-6.71	-0.008022	±2.5	Pass
	-20	-4.88	-0.005834		
	-10	3.02	0.003610		
	0	-3.18	-0.003802		
	10	-6.41	-0.007663		
	20	-1.06	-0.001267		
	30	-4.23	-0.005057		
	40	-2.89	-0.003455		
	50	-1.40	-0.001674		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	3.69	0.004411	±2.5	Pass
	3.87	-7.21	-0.008619		
	4.45	-6.95	-0.008308		
16QAM					
25	3.40	-6.07	-0.007256	±2.5	Pass
	3.87	-3.35	-0.004005		
	4.45	-5.95	-0.007113		
64QAM					
25	3.40	-8.01	-0.009576	±2.5	Pass
	3.87	-4.16	-0.004973		
	4.45	-6.34	-0.007579		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 41 part:

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40640 Frequency=2595.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-2.99	-0.001152	Within authorized band for Band 41	Pass
	-20	-6.68	-0.002574		
	-10	-5.95	-0.002293		
	0	4.82	0.001857		
	10	5.79	0.002231		
	20	-5.15	-0.001985		
	30	2.25	0.000867		
	40	-8.60	-0.003314		
	50	-6.75	-0.002601		
16QAM					
3.87	-30	8.03	0.003094	Within authorized band for Band 41	Pass
	-20	5.65	0.002177		
	-10	-6.78	-0.002613		
	0	3.78	0.001457		
	10	-9.03	-0.003480		
	20	-9.34	-0.003599		
	30	-5.91	-0.002277		
	40	8.07	0.003110		
	50	-6.55	-0.002524		
64QAM					
3.87	-30	10.36	0.003992	Within authorized band for Band 41	Pass
	-20	-6.49	-0.002501		
	-10	-8.43	-0.003249		
	0	5.18	0.001996		
	10	7.91	0.003048		
	20	4.18	0.001611		
	30	6.11	0.002355		
	40	-4.39	-0.001692		
	50	-6.74	-0.002597		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-11.63	-0.004482	Within authorized band for Band 41	Pass
	3.87	-5.94	-0.002289		
	4.45	-10.84	-0.004177		
16QAM					
25	3.40	-6.62	-0.002551	Within authorized band for Band41	Pass
	3.87	4.52	0.001742		
	4.45	-11.60	-0.004470		
64QAM					
25	3.40	-7.95	-0.003064	Within authorized band for Band41	Pass
	3.87	5.22	0.002012		
	4.45	-6.68	-0.002574		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 66 part:

Reference Frequency: LTE Band 66 (10MHz) Middle channel=132322 Frequency=1745.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	10.56	0.006052	Within authorized band for Band 66	Pass
	-20	-7.84	-0.004493		
	-10	-8.18	-0.004688		
	0	-6.45	-0.003696		
	10	7.95	0.004556		
	20	-7.41	-0.004246		
	30	8.15	0.004670		
	40	-12.09	-0.006928		
	50	-7.01	-0.004017		
16QAM					
3.87	-30	-8.50	-0.004871	Within authorized band for Band 66	Pass
	-20	-7.93	-0.004544		
	-10	-9.26	-0.005307		
	0	4.63	0.002653		
	10	6.68	0.003828		
	20	8.55	0.004900		
	30	6.09	0.003490		
	40	-4.51	-0.002585		
	50	2.73	0.001564		
64QAM					
3.87	-30	2.43	0.001393	Within authorized band for Band 66	Pass
	-20	6.07	0.003479		
	-10	-8.21	-0.004705		
	0	6.37	0.003650		
	10	-9.90	-0.005673		
	20	4.51	0.002585		
	30	-10.23	-0.005862		
	40	-6.57	-0.003765		
	50	5.36	0.003072		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-4.06	-0.002327	Within authorized band for Band 66	Pass
	3.87	-11.46	-0.006567		
	4.45	9.26	0.005307		
16QAM					
25	3.40	6.14	0.003519	Within authorized band for Band 66	Pass
	3.87	7.75	0.004441		
	4.45	-7.81	-0.004476		
64QAM					
25	3.40	-8.24	-0.004722	Within authorized band for Band 66	Pass
	3.87	3.98	0.002281		
	4.45	7.60	0.004355		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 71 part:

Reference Frequency: LTE Band 66 (10MHz) Middle channel=132322 Frequency=1745.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-3.52	-0.005173	Within authorized band for Band 71	Pass
	-20	-8.24	-0.012109		
	-10	-6.64	-0.009758		
	0	-4.01	-0.005893		
	10	-5.79	-0.008508		
	20	-2.32	-0.003409		
	30	-6.78	-0.009963		
	40	-4.56	-0.006701		
	50	-5.12	-0.007524		
16QAM					
3.87	-30	-5.35	-0.007862	Within authorized band for Band 71	Pass
	-20	-4.51	-0.006627		
	-10	-5.04	-0.007406		
	0	-6.59	-0.009684		
	10	-7.38	-0.010845		
	20	-6.38	-0.009375		
	30	-10.64	-0.015636		
	40	-6.19	-0.009096		
	50	-10.06	-0.014783		
64QAM					
3.87	-30	-6.47	-0.009508	Within authorized band for Band 71	Pass
	-20	-3.59	-0.005276		
	-10	-6.05	-0.008891		
	0	-3.89	-0.005716		
	10	-5.81	-0.008538		
	20	-4.25	-0.006245		
	30	-4.32	-0.006348		
	40	-6.71	-0.009860		
	50	-5.65	-0.008303		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.40	-6.94	-0.010198	Within authorized band for Band 71	Pass
	3.87	-5.58	-0.008200		
	4.45	-5.55	-0.008156		
16QAM					
25	3.40	-7.22	-0.010610	Within authorized band for Band 71	Pass
	3.87	-5.99	-0.008802		
	4.45	-10.17	-0.014945		
64QAM					
25	3.40	-5.29	-0.007774	Within authorized band for Band 71	Pass
	3.87	-5.71	-0.008391		
	4.45	-8.87	-0.013035		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23790	50RB#0	PASS	PASS
Band25	20MHz	QPSK	26365	100RB#0	PASS	PASS
Band25	20MHz	16QAM	26365	100RB#0	PASS	PASS
Band25	20MHz	64QAM	26365	100RB#0	PASS	PASS
Band26	10MHz	QPSK	26740	50RB#0	PASS	PASS
Band26	10MHz	16QAM	26740	50RB#0	PASS	PASS
Band26	10MHz	64QAM	26740	50RB#0	PASS	PASS
Band26	15MHz	QPSK	26915	75RB#0	PASS	PASS
Band26	15MHz	16QAM	26915	75RB#0	PASS	PASS
Band26	15MHz	64QAM	26915	75RB#0	PASS	PASS
Band41	20MHz	QPSK	40640	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40640	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40640	100RB#0	PASS	PASS
Band66	20MHz	QPSK	132322	100RB#0	PASS	PASS
Band66	20MHz	16QAM	132322	100RB#0	PASS	PASS
Band66	20MHz	64QAM	132322	100RB#0	PASS	PASS
Band71	20MHz	QPSK	133322	100RB#0	PASS	PASS

Band71	20MHz	16QAM	133322	100RB#0	PASS	PASS
Band71	20MHz	64QAM	133322	100RB#0	PASS	PASS

Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

