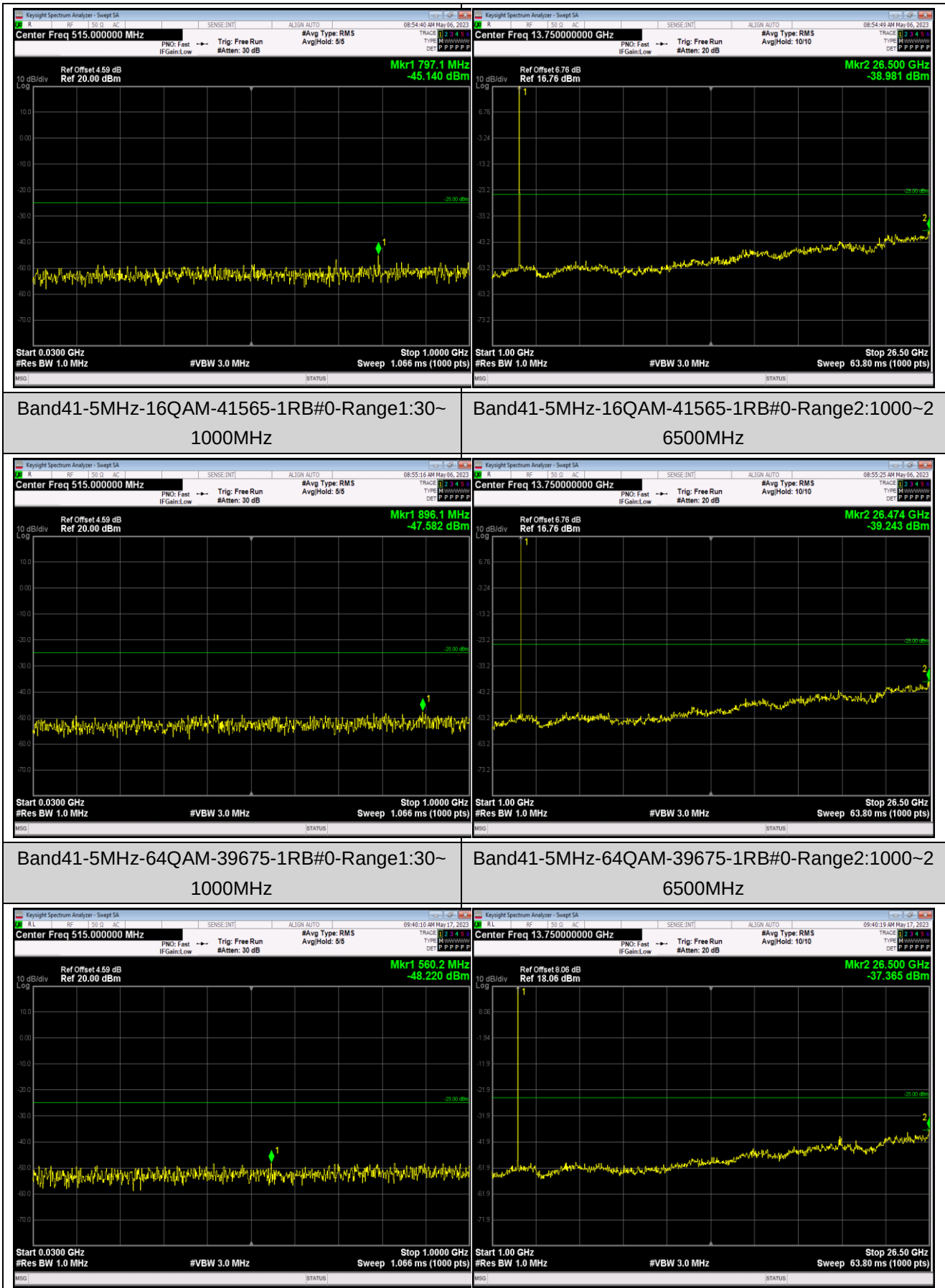
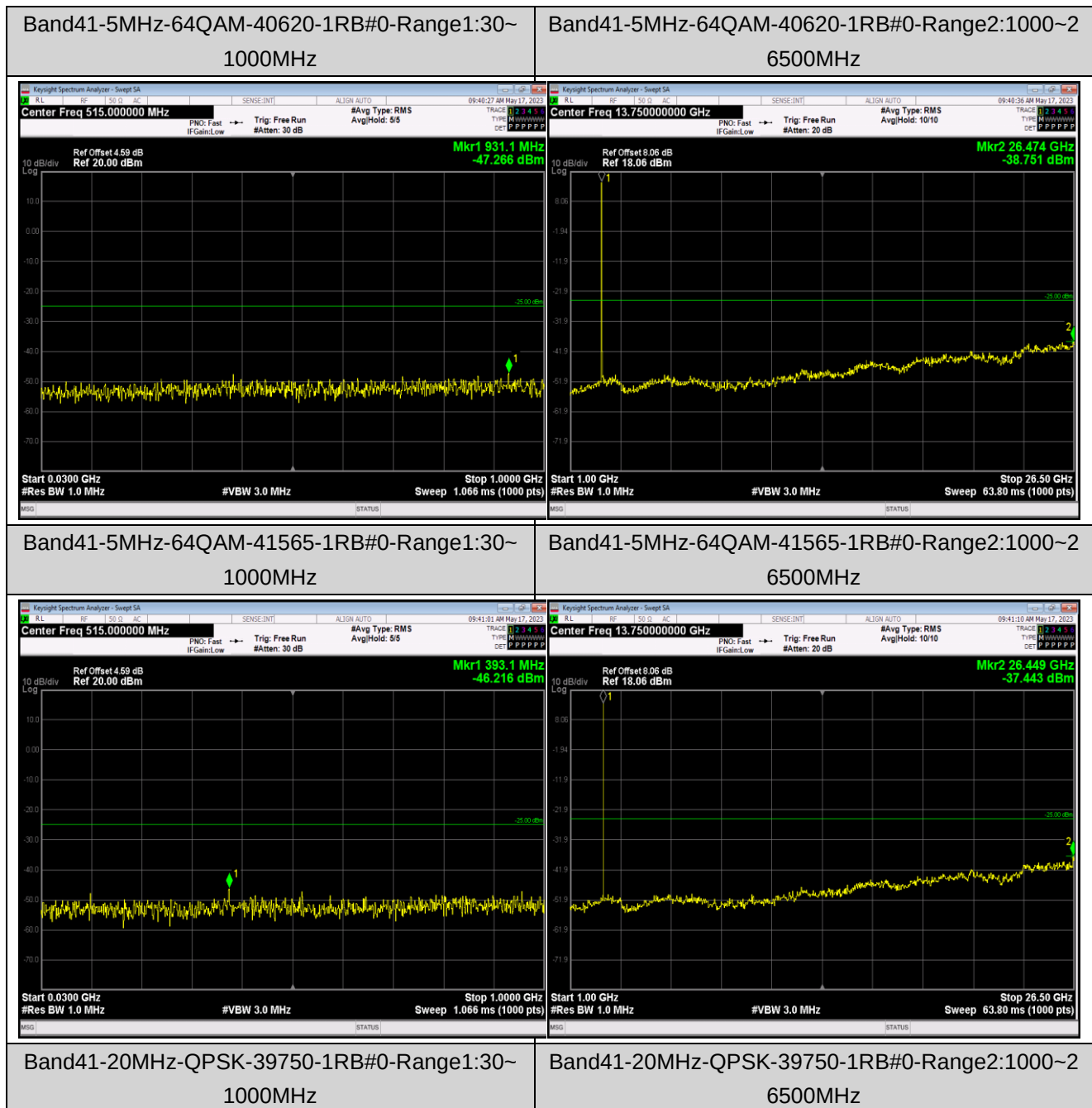
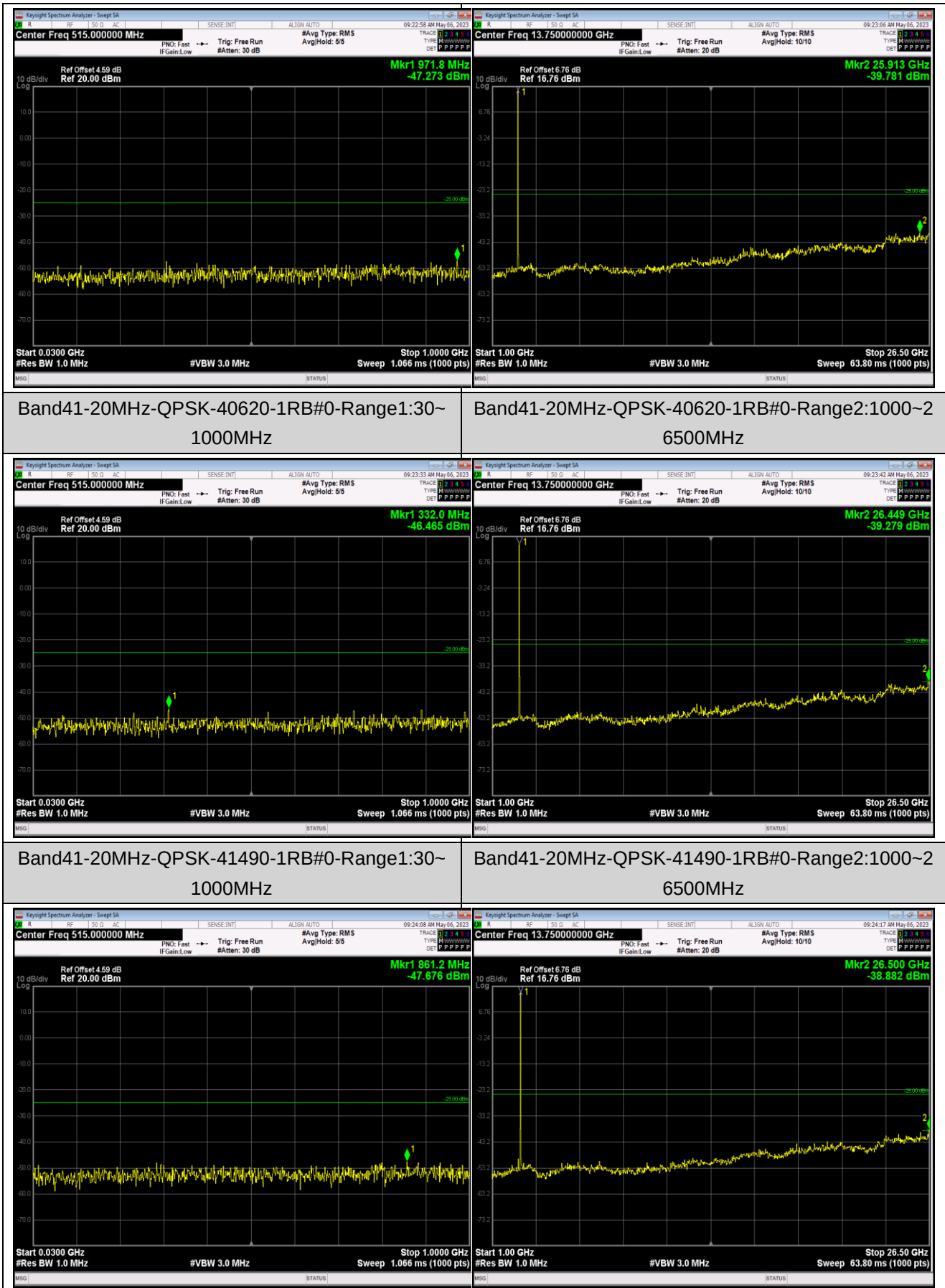
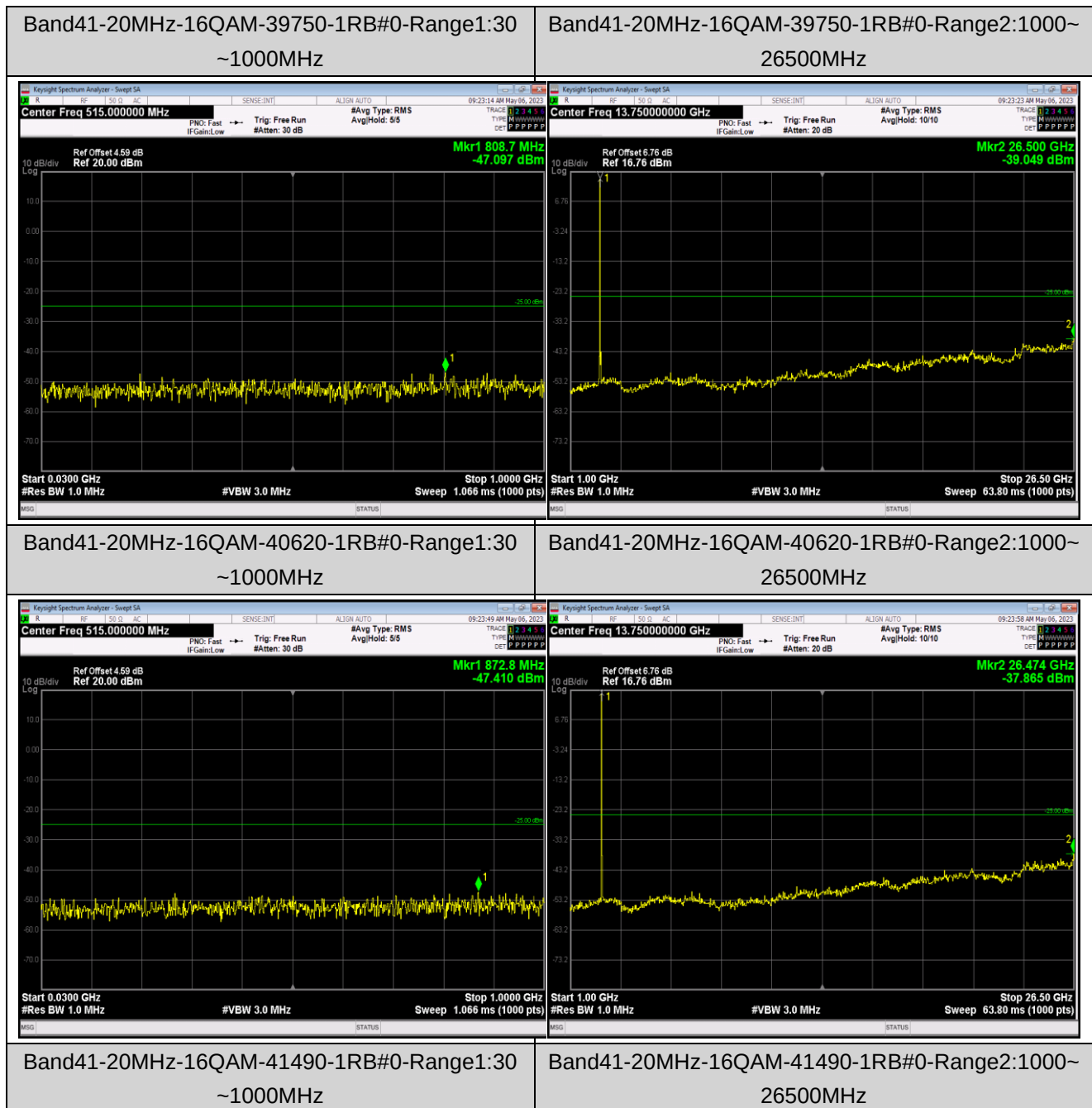
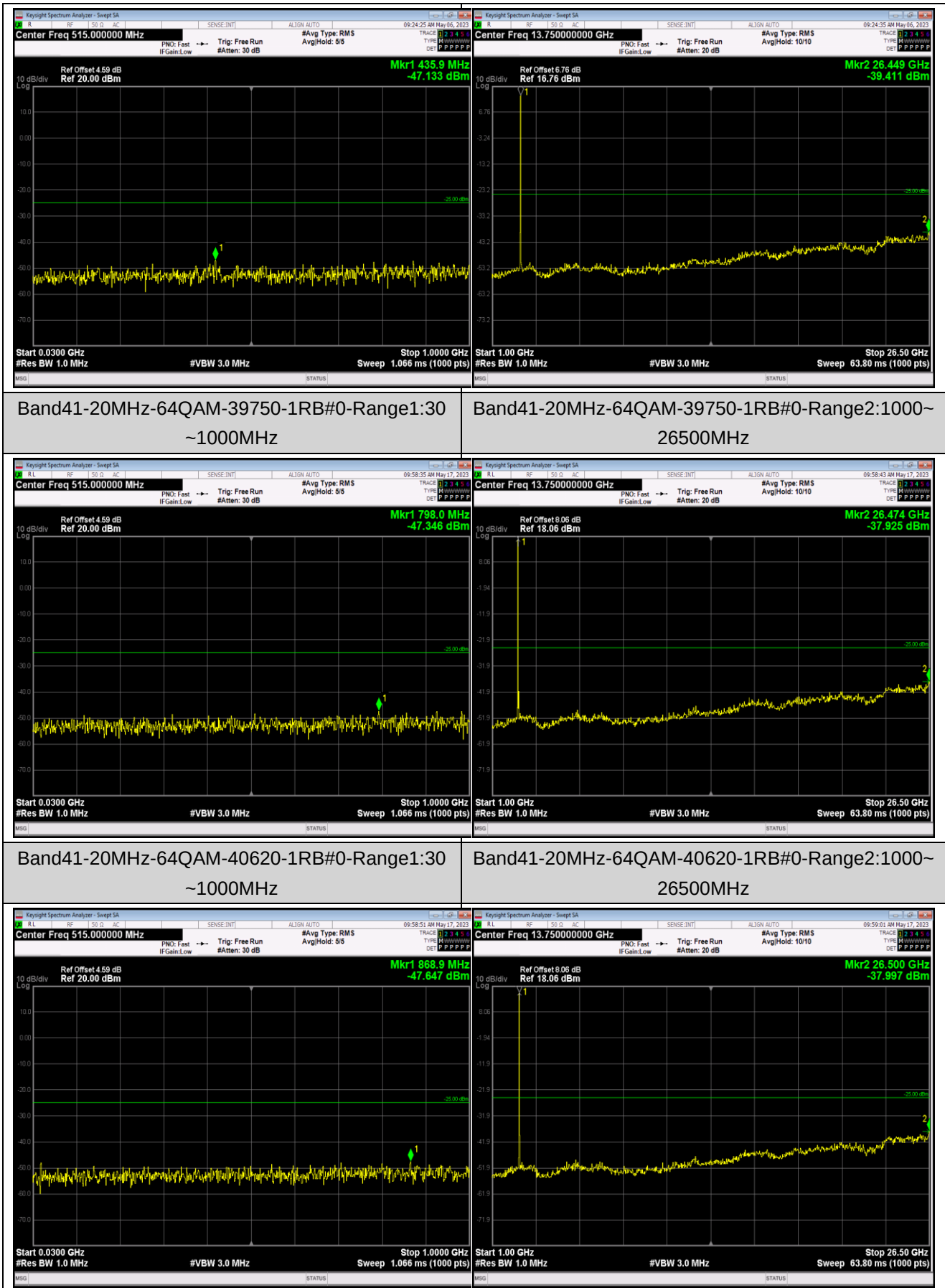












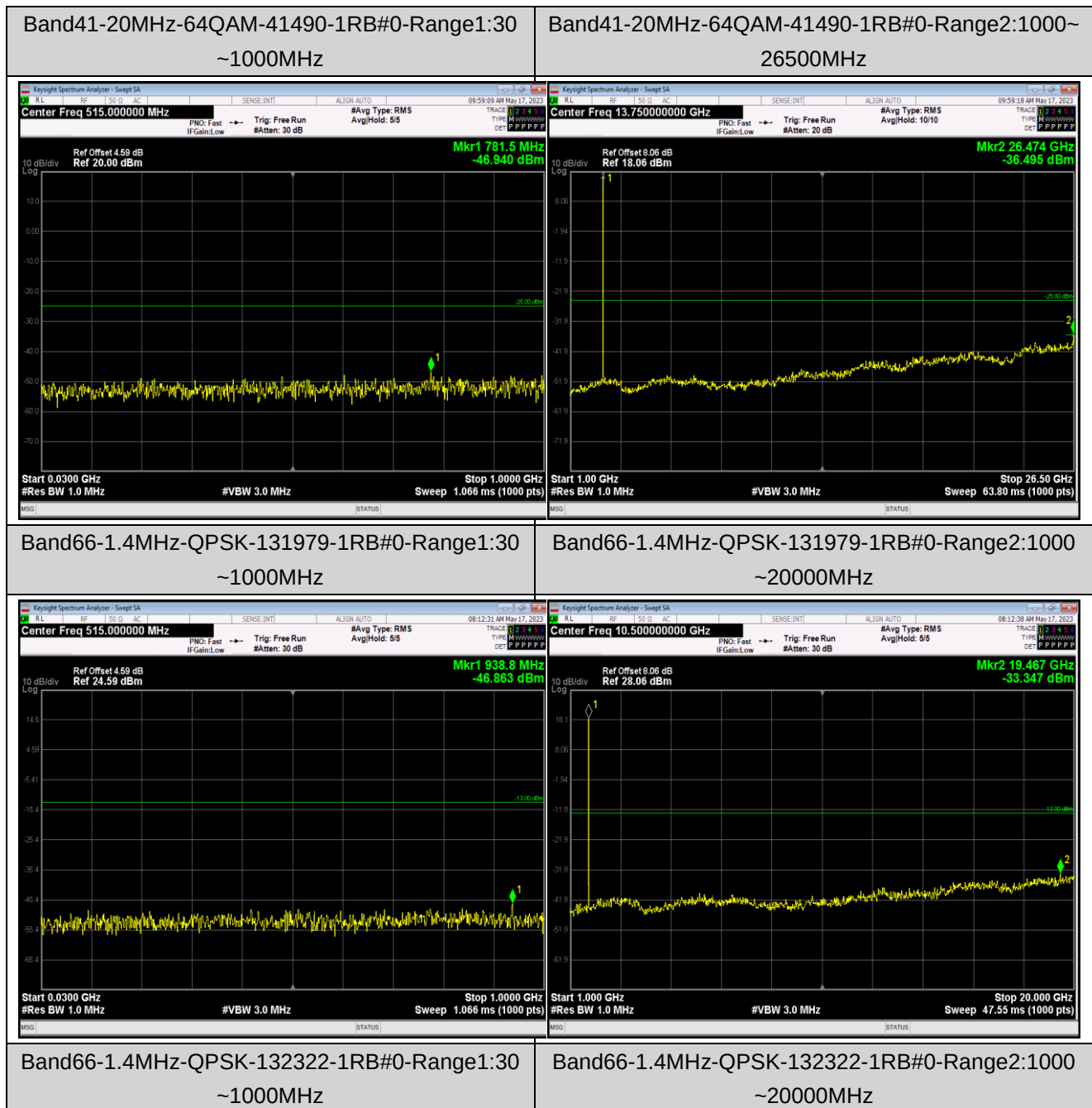
JianYan Testing Group Shenzhen Co., Ltd.

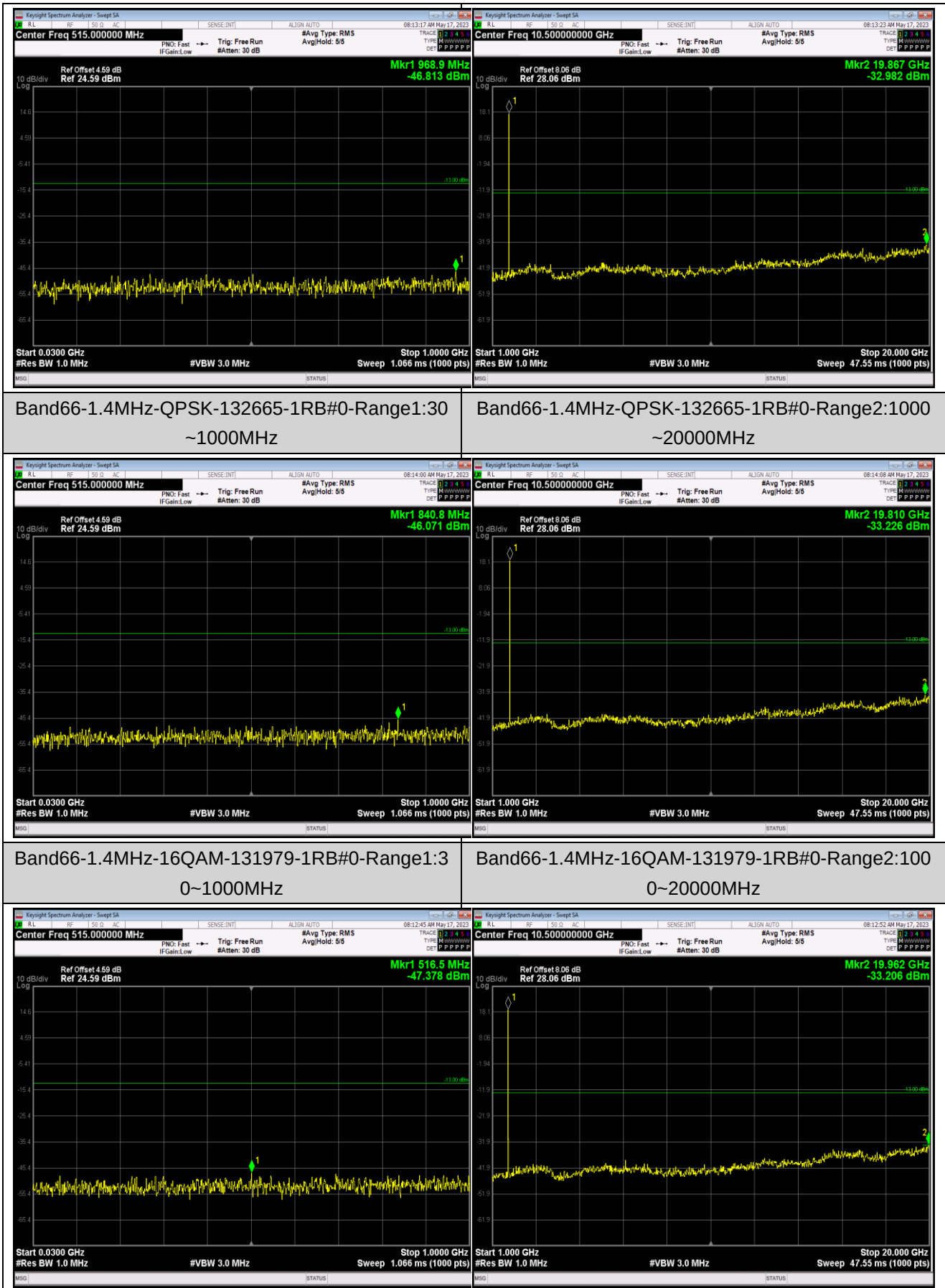
No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

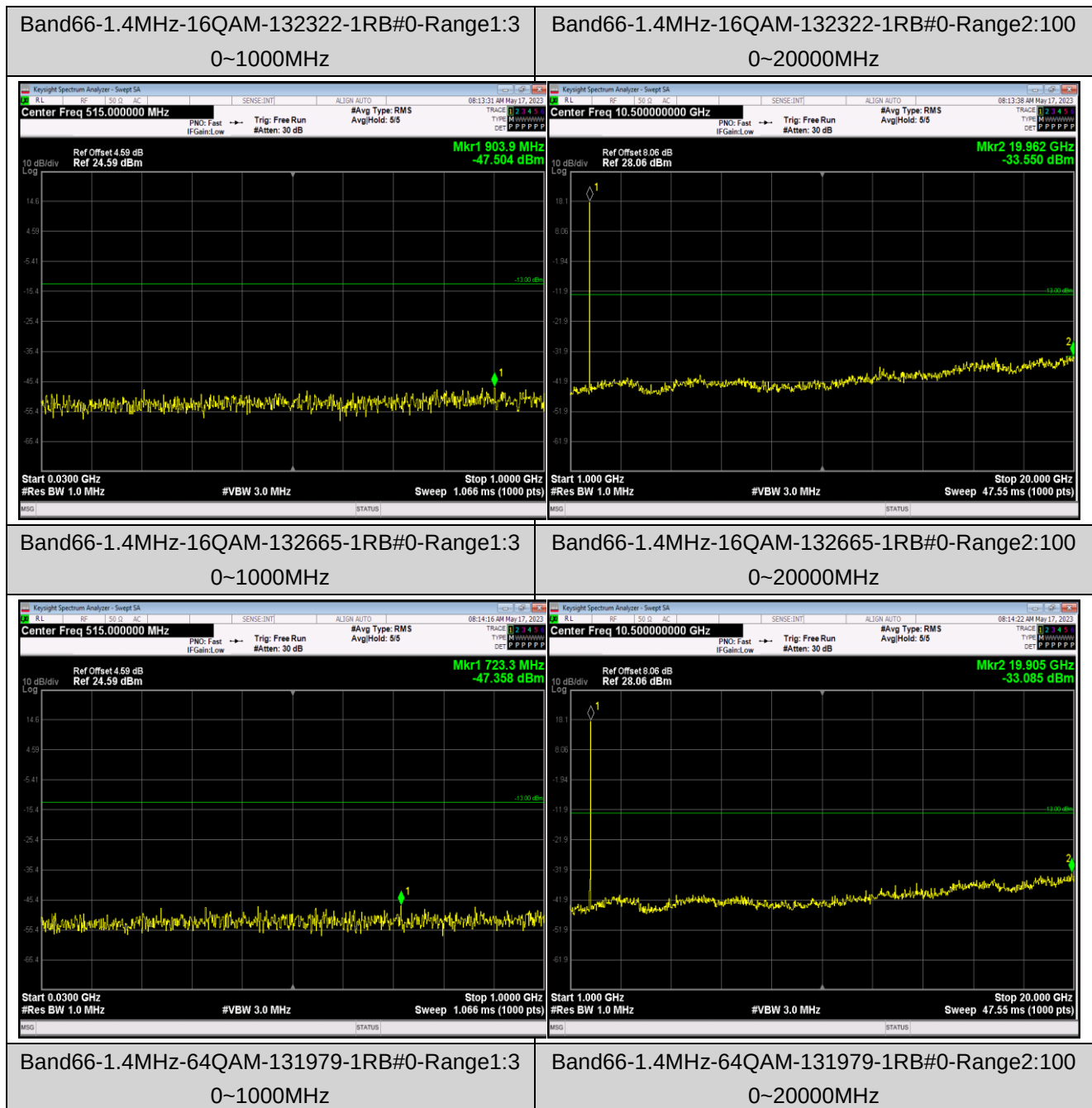
Tel: +86-755-23118282, Fax: +86-755-23116366

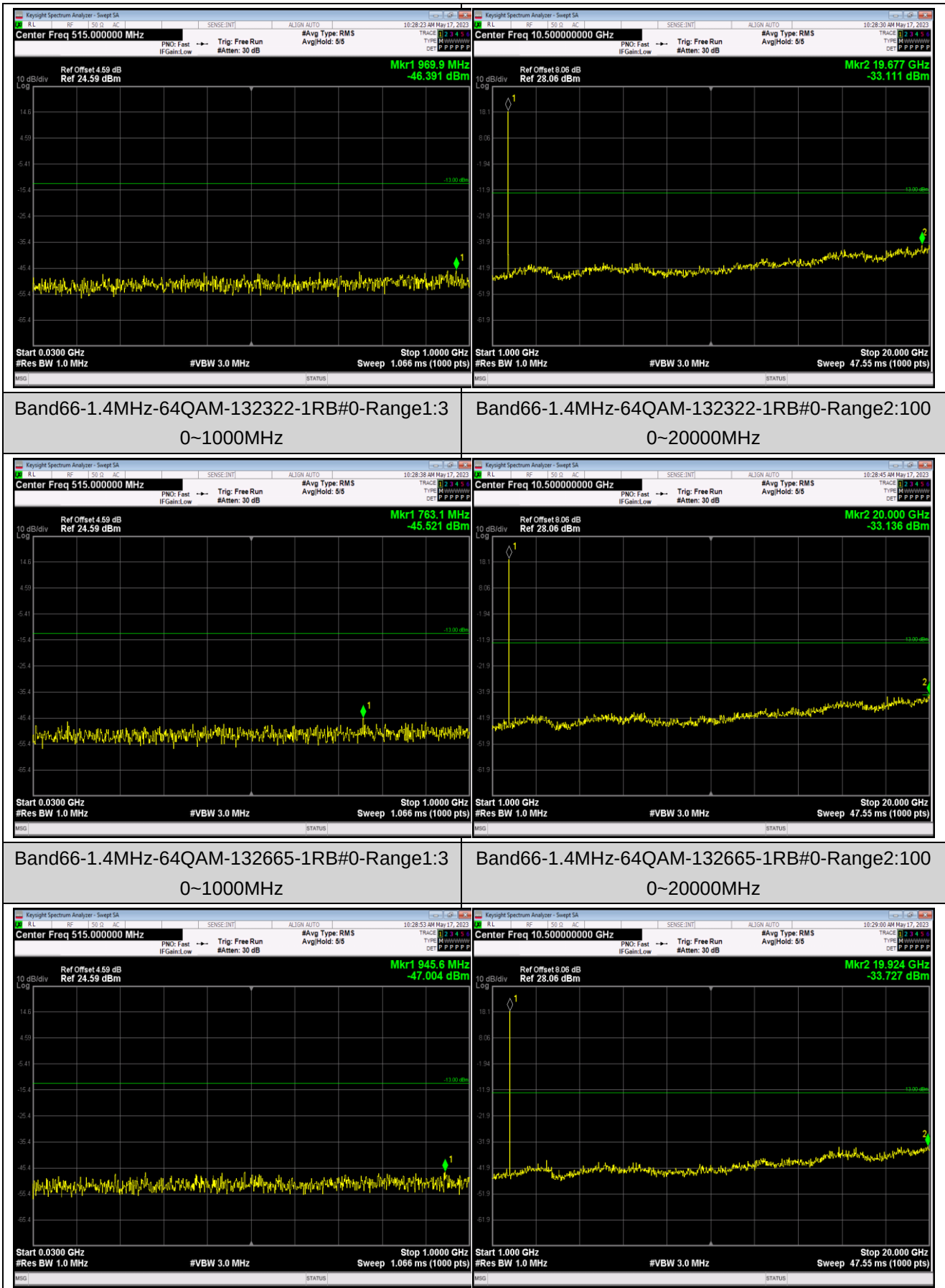
Project No.: JYTSZR2304043

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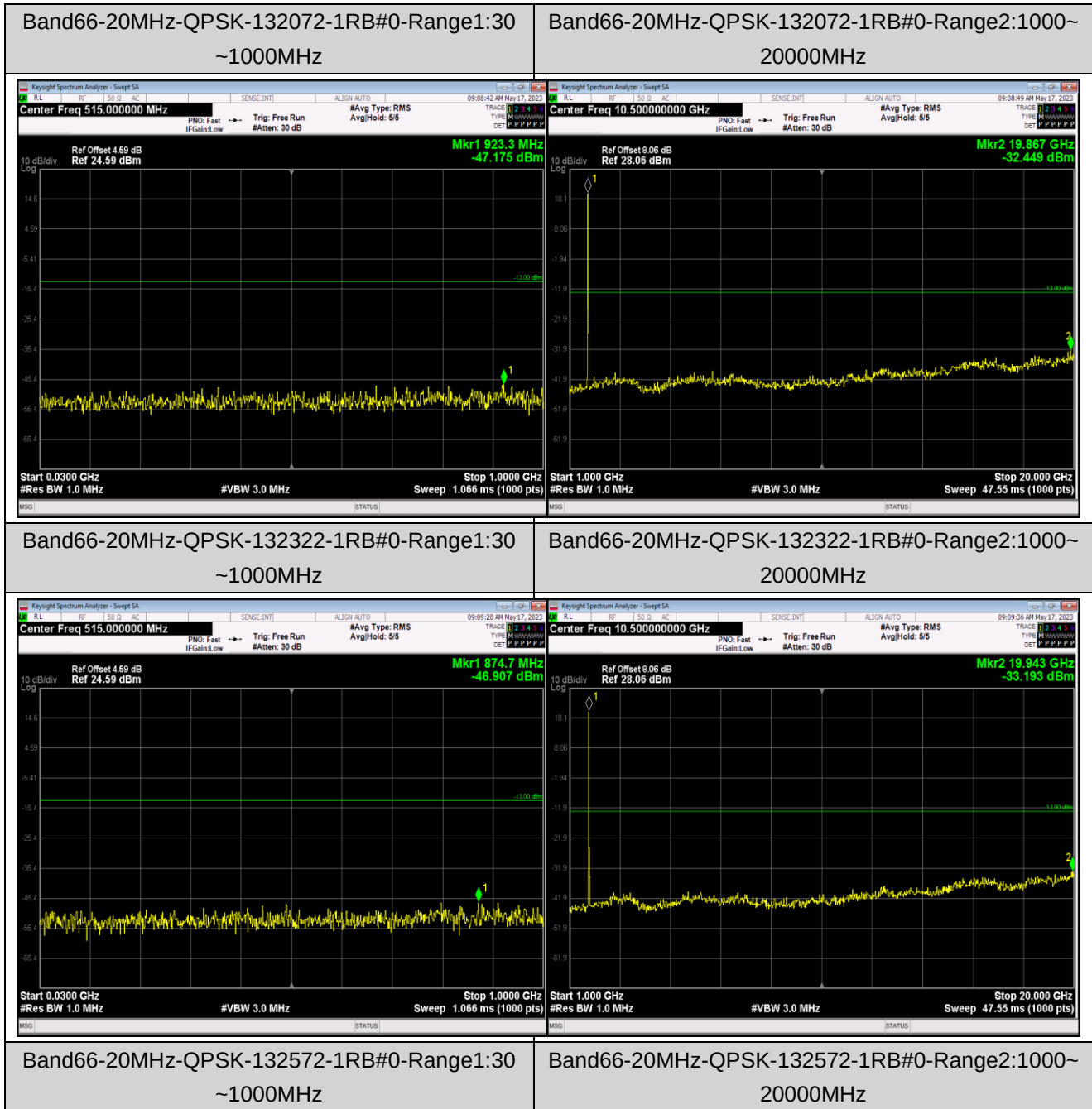


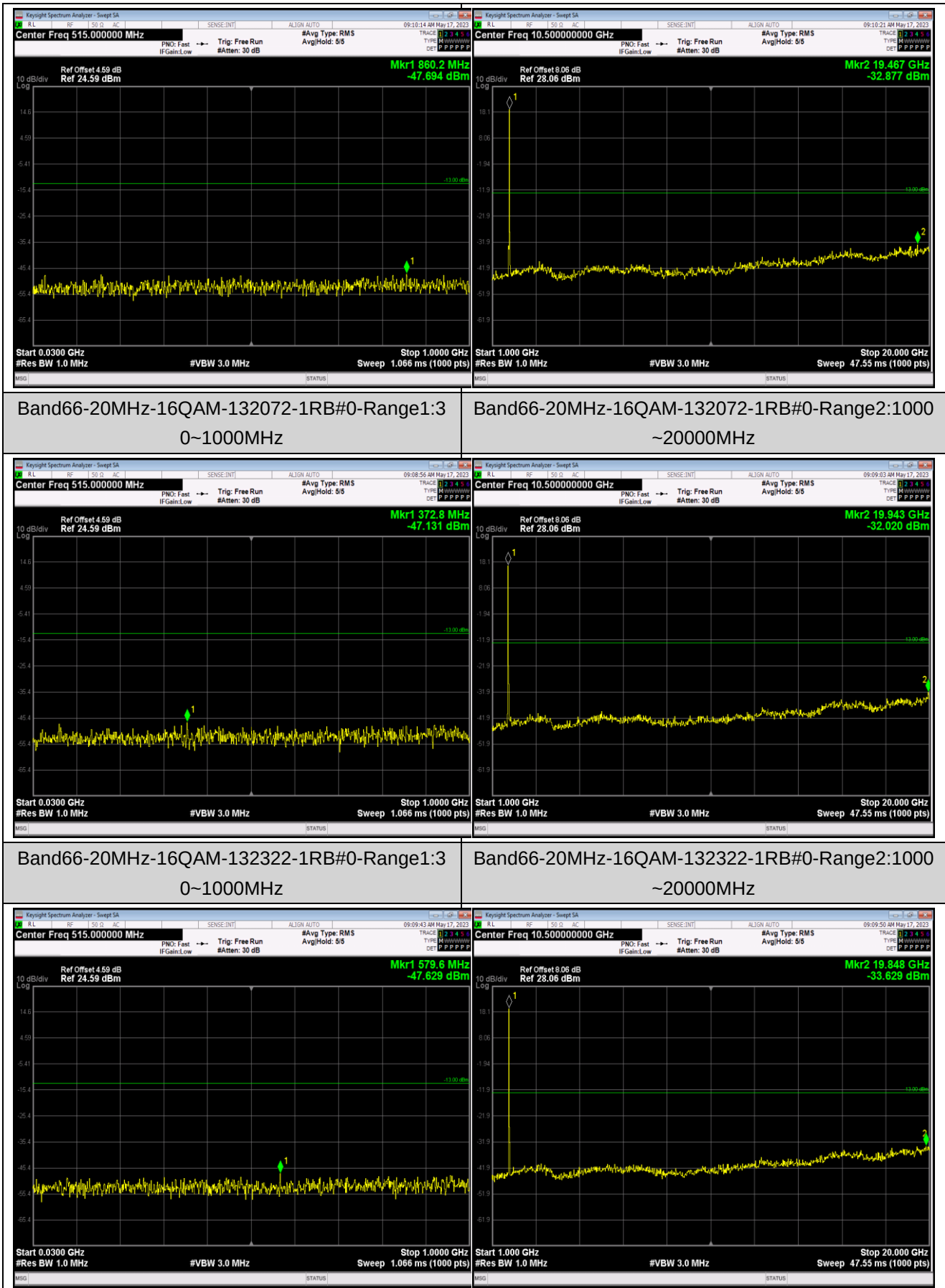
Band66-1.4MHz-64QAM-132322-1RB#0-Range1:3
0~1000MHz

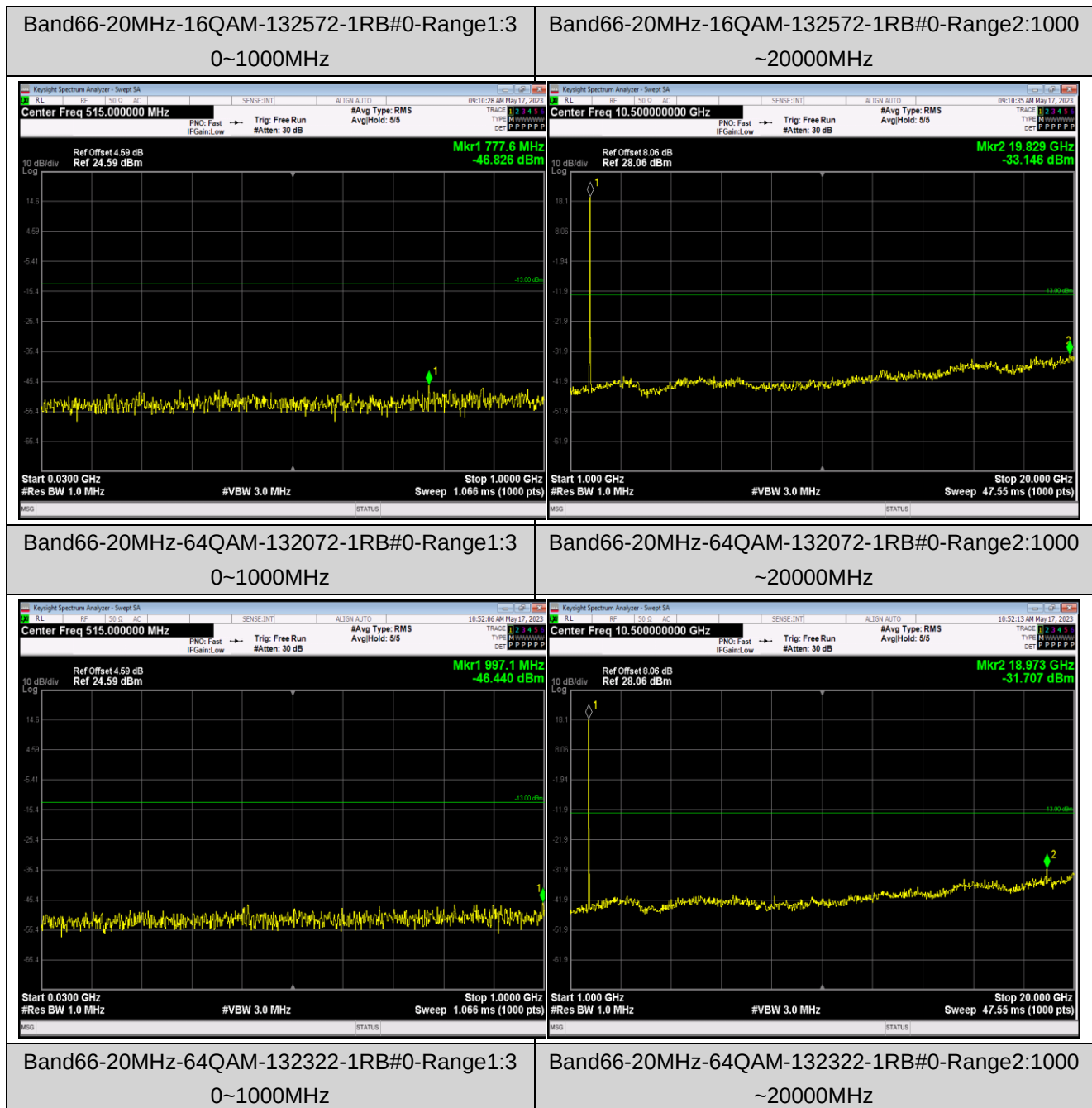
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0~20000MHz

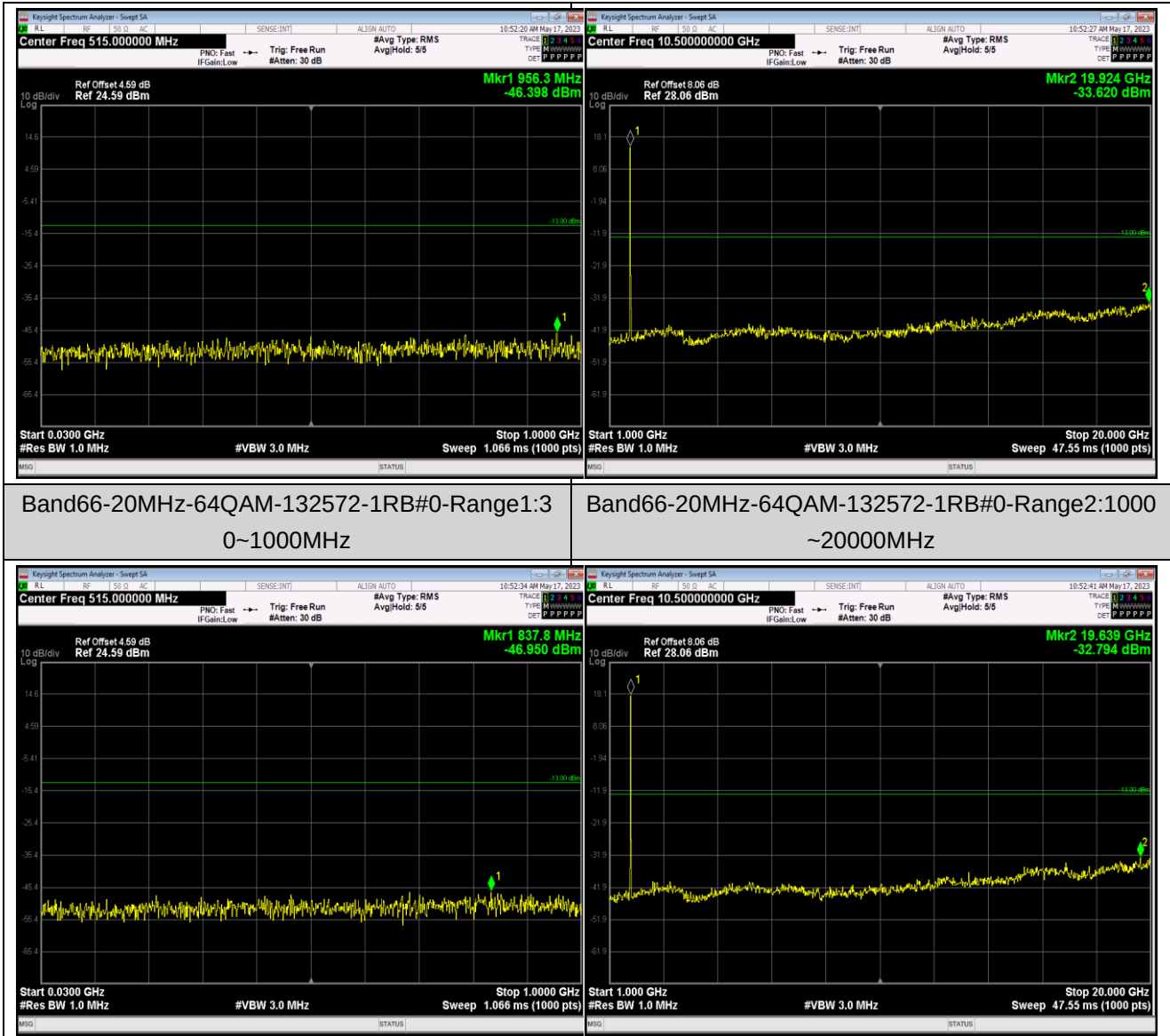
Band66-1.4MHz-64QAM-132665-1RB#0-Range1:3
0~1000MHz

Band66-1.4MHz-64QAM-132665-1RB#0-Range2:100
0~20000MHz









Appendix F: Frequency Stability

Test Result

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.87	-30	-13.09	-0.005164	Within authorized band for Band 7	Pass
	-20	5.91	0.002331		
	-10	-7.64	-0.003014		
	0	-10.34	-0.004079		
	10	4.49	0.001771		
	20	-10.06	-0.003968		
	30	-13.86	-0.005467		
	40	-12.49	-0.004927		
	50	-13.56	-0.005349		
16QAM					
3.87	-30	-16.32	-0.006438	Within authorized band for Band 7	Pass
	-20	-13.88	-0.005475		
	-10	-7.01	-0.002765		
	0	2.02	0.000797		
	10	-11.49	-0.004533		
	20	-5.76	-0.002272		
	30	2.52	0.000994		
	40	-11.90	-0.004694		
	50	-19.73	-0.007783		
64QAM					
3.87	-30	-7.98	-0.003148	Within authorized band for Band 7	Pass
	-20	-4.75	-0.001874		
	-10	-4.29	-0.001692		
	0	-5.46	-0.002154		
	10	2.42	0.000955		
	20	-3.32	-0.001310		
	30	-3.88	-0.001531		
	40	-6.88	-0.002714		
	50	-3.62	-0.001428		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-4.53	-0.001787	Within authorized band for Band 7	Pass
	3.87	-12.12	-0.004781		
	4.45	-10.20	-0.004024		
16QAM					
25	3.45	-16.29	-0.006426	Within authorized band for Band 7	Pass
	3.87	-10.21	-0.004028		
	4.45	-14.68	-0.005791		
64QAM					
25	3.45	-8.58	-0.003385	Within authorized band for Band 7	Pass
	3.87	-4.71	-0.001858		
	4.45	-2.80	-0.001105		
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	10.41	0.004015	Within authorized band for Band 41	Pass
	-20	8.78	0.003386		
	-10	4.94	0.001905		
	0	4.23	0.001631		
	10	4.41	0.001701		
	20	4.33	0.001670		
	30	4.61	0.001778		
	40	3.85	0.001485		
	50	2.39	0.000922		
16QAM					
3.87	-30	5.18	0.001998	Within authorized band for Band 41	Pass
	-20	-3.60	-0.001388		
	-10	6.41	0.002472		
	0	8.41	0.003243		
	10	5.76	0.002221		
	20	5.38	0.002075		
	30	5.05	0.001948		
	40	8.65	0.003336		
	50	7.48	0.002885		
64QAM					
3.87	-30	4.45	0.001716	Within authorized band for Band 41	Pass
	-20	-6.87	-0.002649		
	-10	2.73	0.001053		
	0	4.46	0.001720		
	10	4.15	0.001600		
	20	-3.38	-0.001304		
	30	2.20	0.000848		
	40	4.65	0.001793		
	50	4.39	0.001693		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	6.61	0.002549	Within authorized band for Band 41	Pass
	3.87	7.57	0.002919		
	4.45	4.99	0.001924		
16QAM					
25	3.45	-2.98	-0.001149	Within authorized band for Band41	Pass
	3.87	4.63	0.001786		
	4.45	5.32	0.002052		
64QAM					
25	3.45	3.00	0.001157	Within authorized band for Band41	Pass
	3.87	5.51	0.002125		
	4.45	3.72	0.001435		
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	3.63	0.002080	Within authorized band for Band 66	Pass
	-20	8.17	0.004682		
	-10	7.32	0.004195		
	0	-3.45	-0.001977		
	10	11.53	0.006607		
	20	5.38	0.003083		
	30	4.25	0.002436		
	40	4.99	0.002860		
	50	8.07	0.004625		
16QAM					
3.87	-30	-4.86	-0.002785	Within authorized band for Band 66	Pass
	-20	8.64	0.004951		
	-10	-7.80	-0.004470		
	0	-8.73	-0.005003		
	10	-3.42	-0.001960		
	20	-8.08	-0.004630		
	30	-4.68	-0.002682		
	40	-8.45	-0.004842		
	50	2.50	0.001433		
64QAM					
3.87	-30	4.62	0.002648	Within authorized band for Band 66	Pass
	-20	4.98	0.002854		
	-10	5.82	0.003335		
	0	3.68	0.002109		
	10	6.81	0.003903		
	20	3.83	0.002195		
	30	-4.68	-0.002682		
	40	5.14	0.002946		
	50	2.36	0.001352		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	8.64	0.004951	Within authorized band for Band 66	Pass
	3.87	6.02	0.003450		
	4.45	7.24	0.004149		
16QAM					
25	3.45	5.69	0.003261	Within authorized band for Band 66	Pass
	3.87	8.88	0.005089		
	4.45	9.28	0.005318		
64QAM					
25	3.45	2.66	0.001524	Within authorized band for Band 66	Pass
	3.87	9.30	0.005330		
	4.45	2.19	0.001255		
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
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	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

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

Test Graphs

