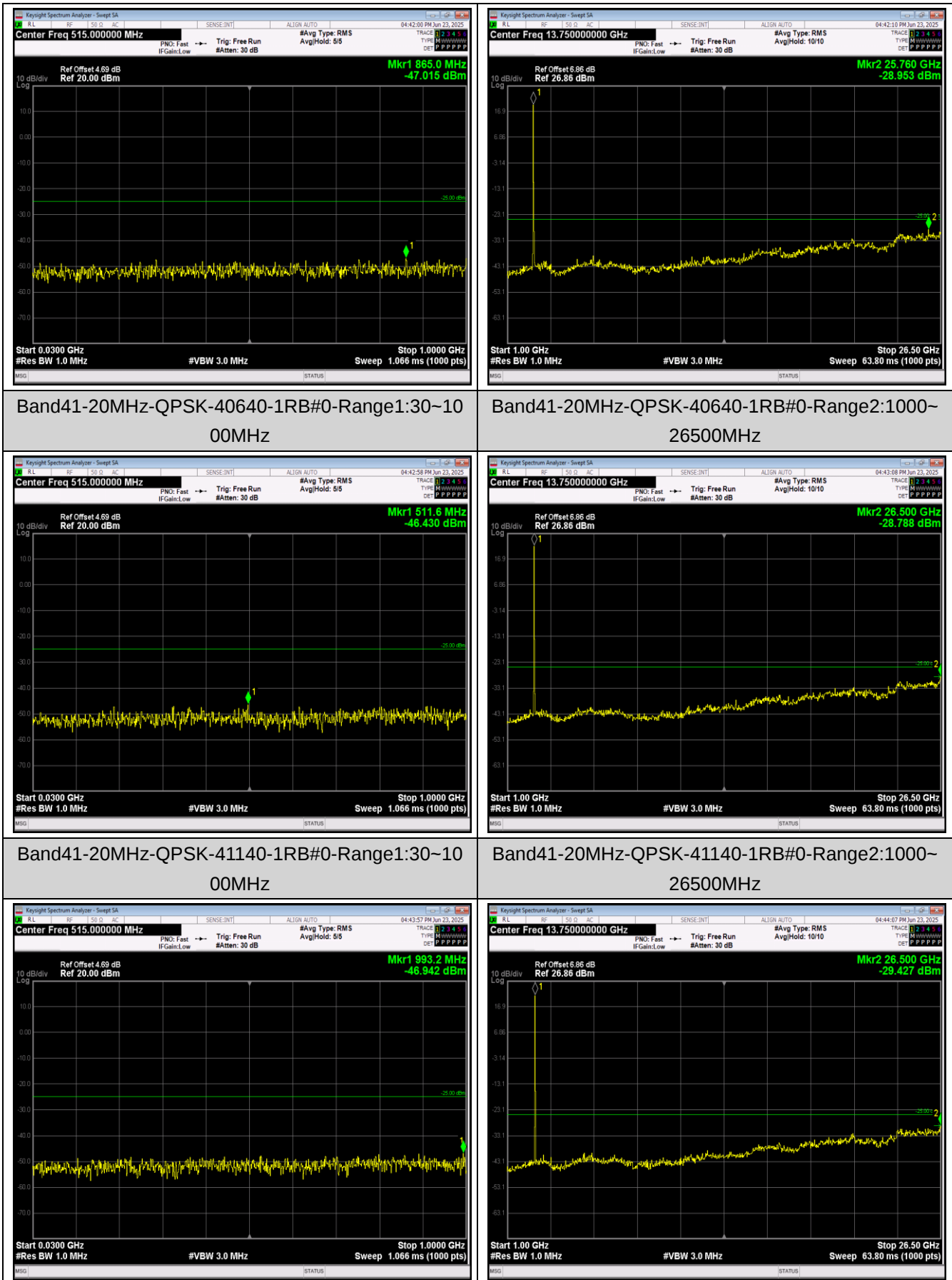
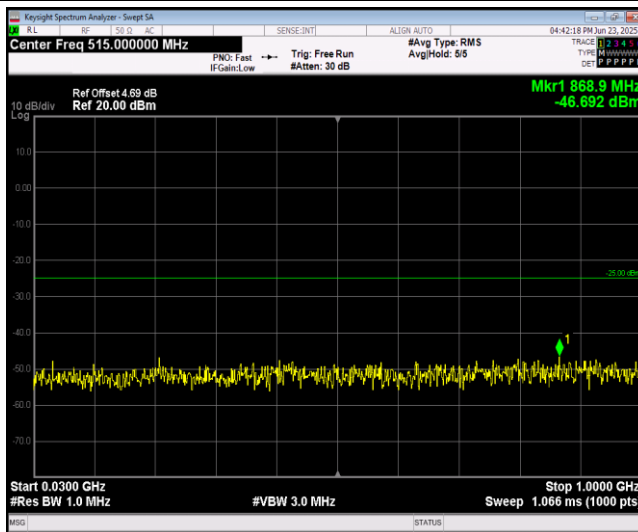
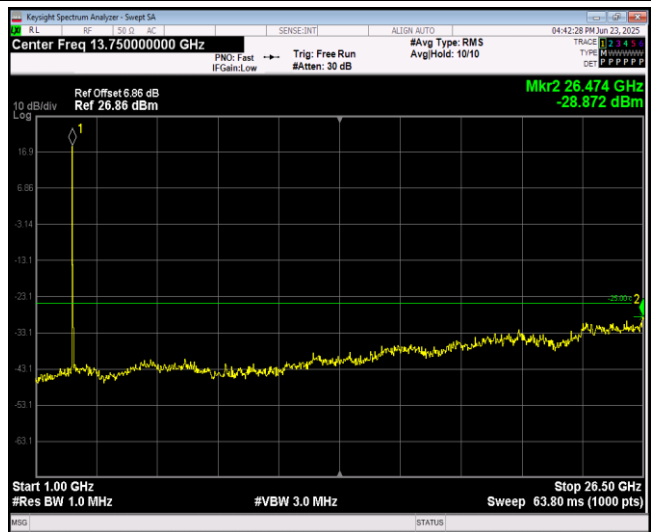




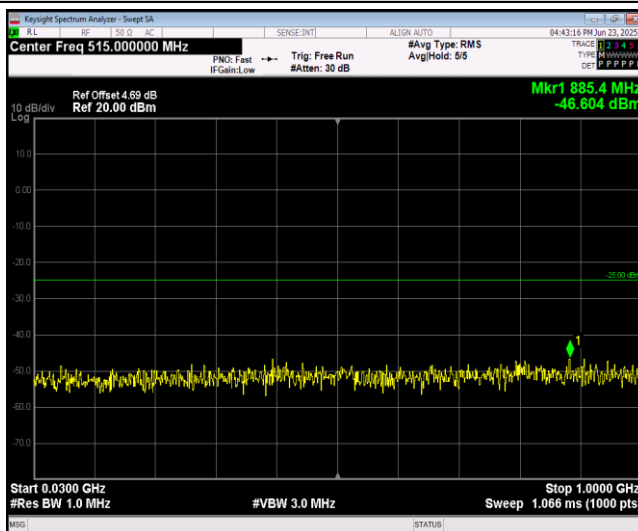
Band41-20MHz-16QAM-40140-1RB#0-Range1:30~1
000MHz



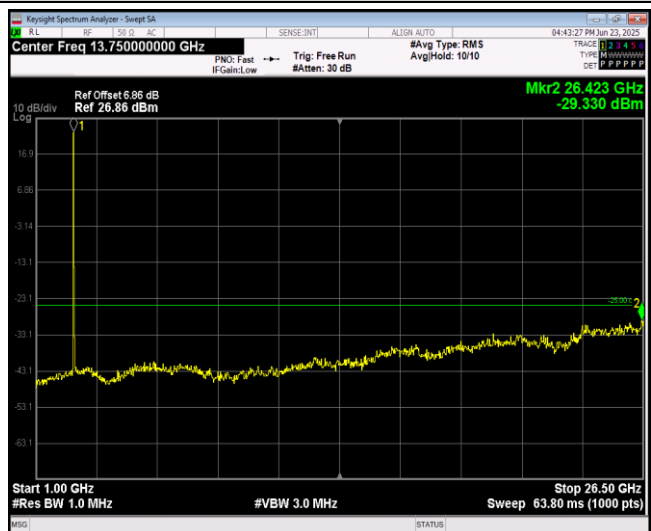
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~26500MHz



Band41-20MHz-16QAM-40640-1RB#0-Range1:30~1
000MHz

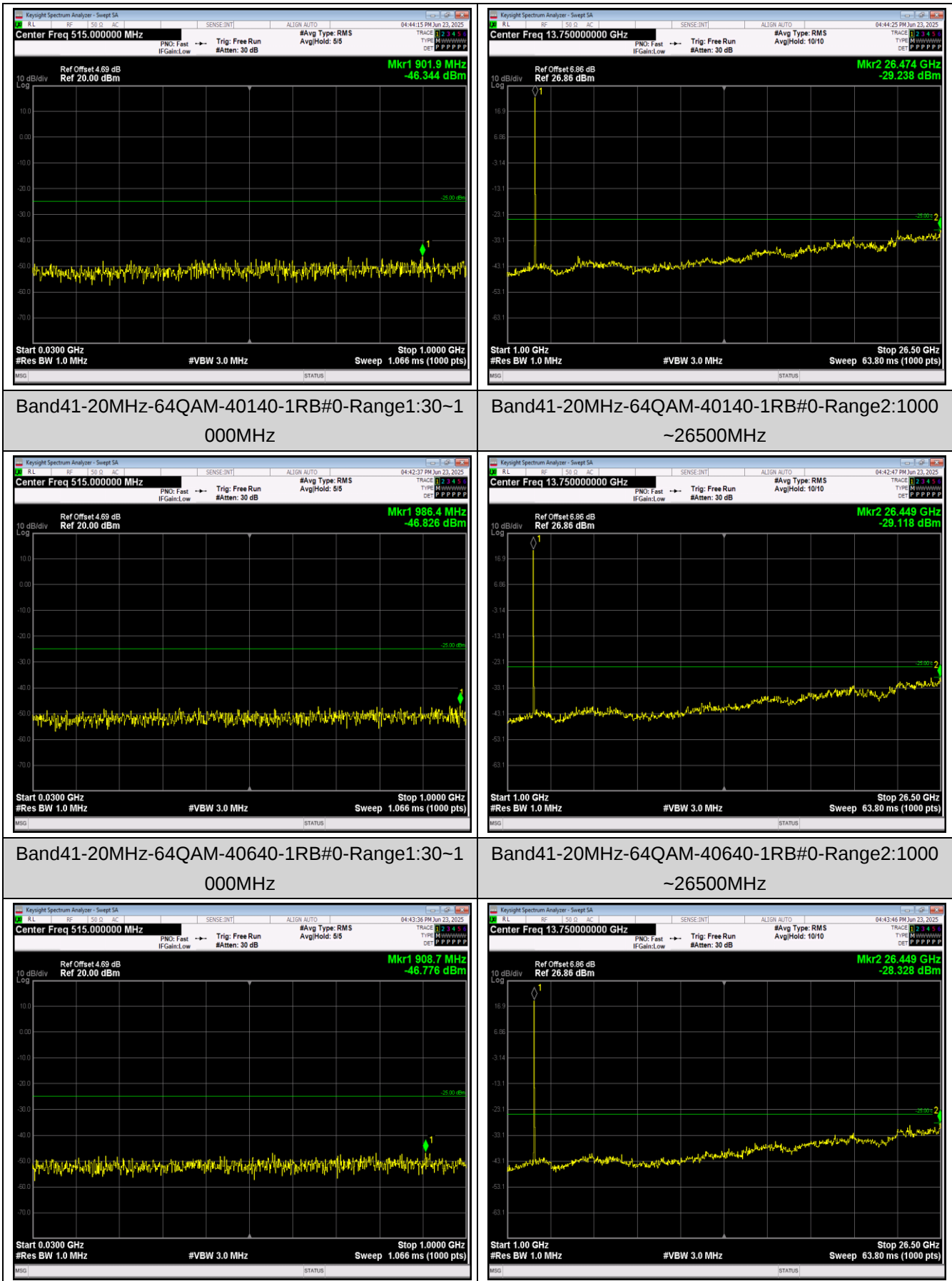


Band41-20MHz-16QAM-40640-1RB#0-Range2:1000
~26500MHz

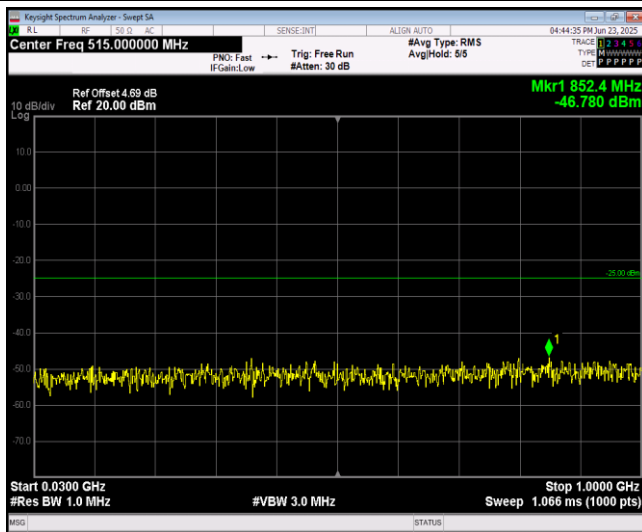


Band41-20MHz-16QAM-41140-1RB#0-Range1:30~1
000MHz

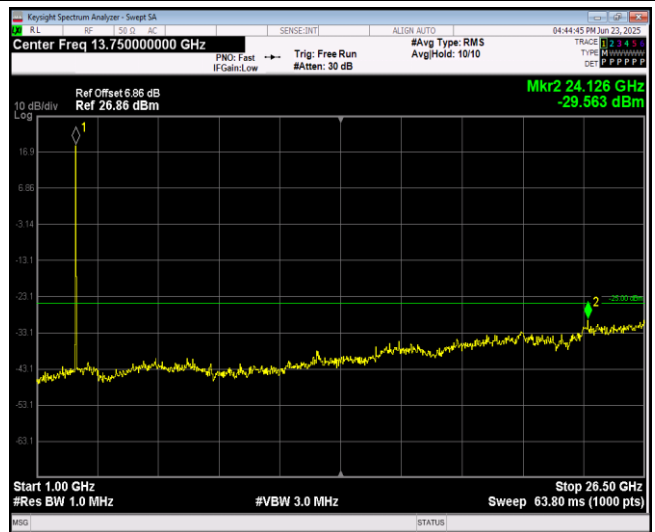
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~26500MHz



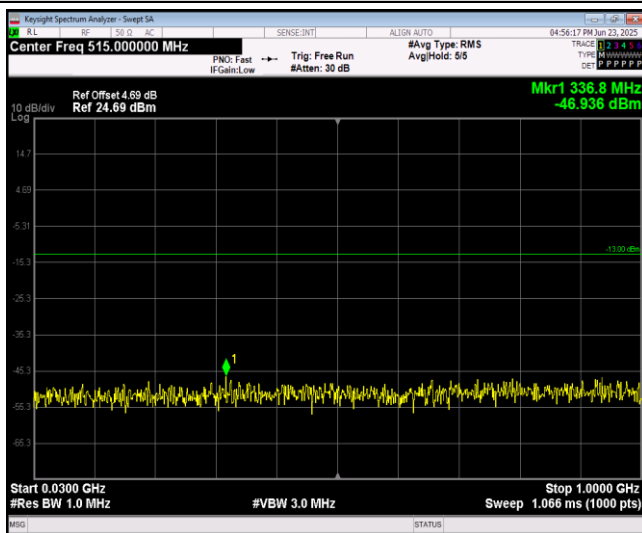
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000MHz



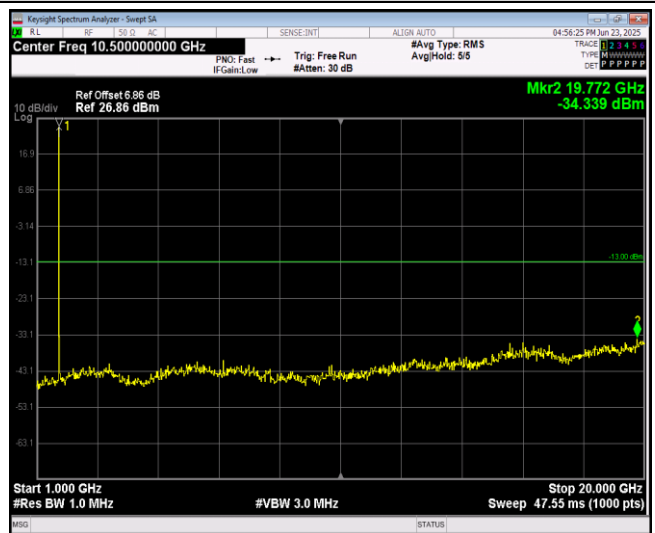
Band41-20MHz-64QAM-41140-1RB#0-Range2:1000
~26500MHz



Band66-1.4MHz-QPSK-131979-1RB#0-Range1:30~1
000MHz

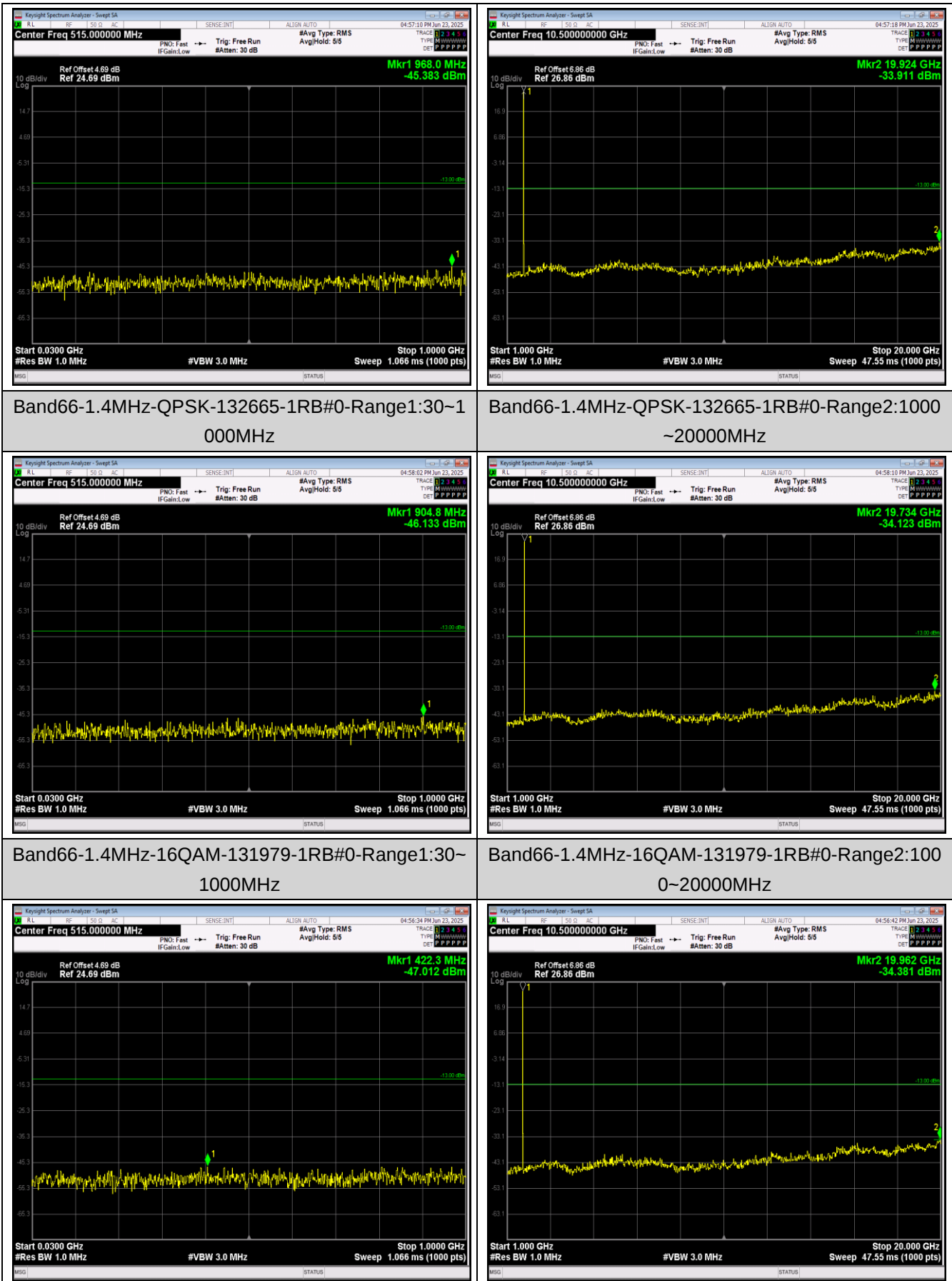


Band66-1.4MHz-QPSK-131979-1RB#0-Range2:1000
~20000MHz

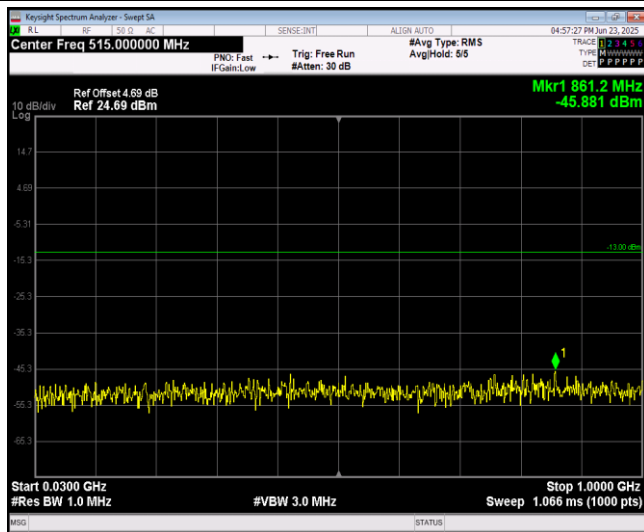


Band66-1.4MHz-QPSK-132322-1RB#0-Range1:30~1
000MHz

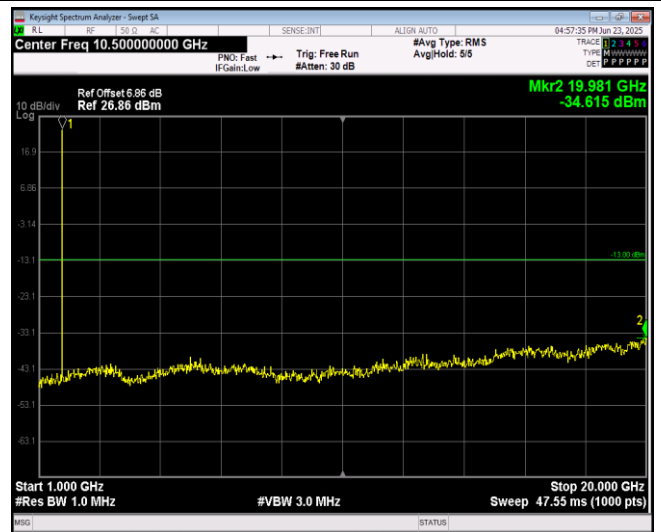
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~20000MHz



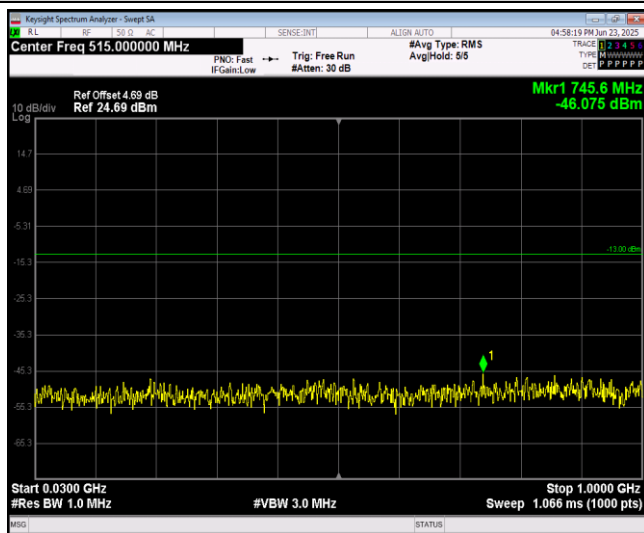
Band66-1.4MHz-16QAM-132322-1RB#0-Range1:30~1000MHz



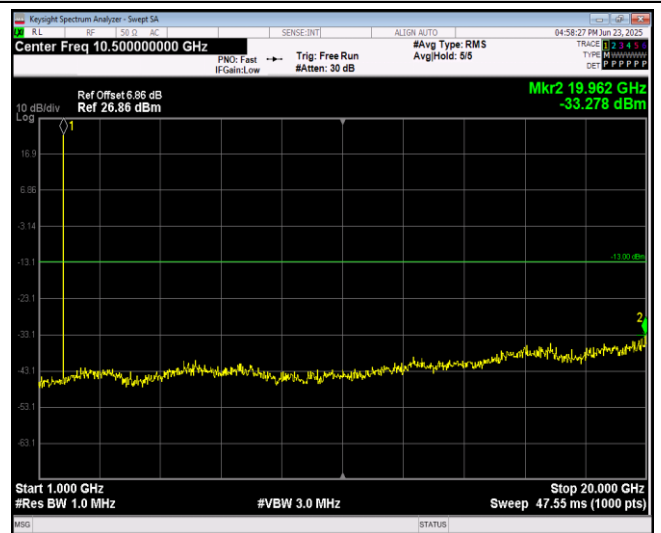
Band66-1.4MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz



Band66-1.4MHz-16QAM-132665-1RB#0-Range1:30~1000MHz



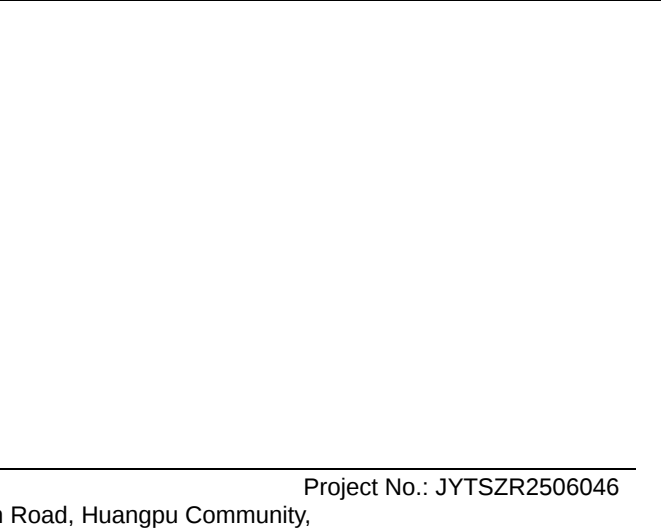
Band66-1.4MHz-16QAM-132665-1RB#0-Range2:1000~20000MHz

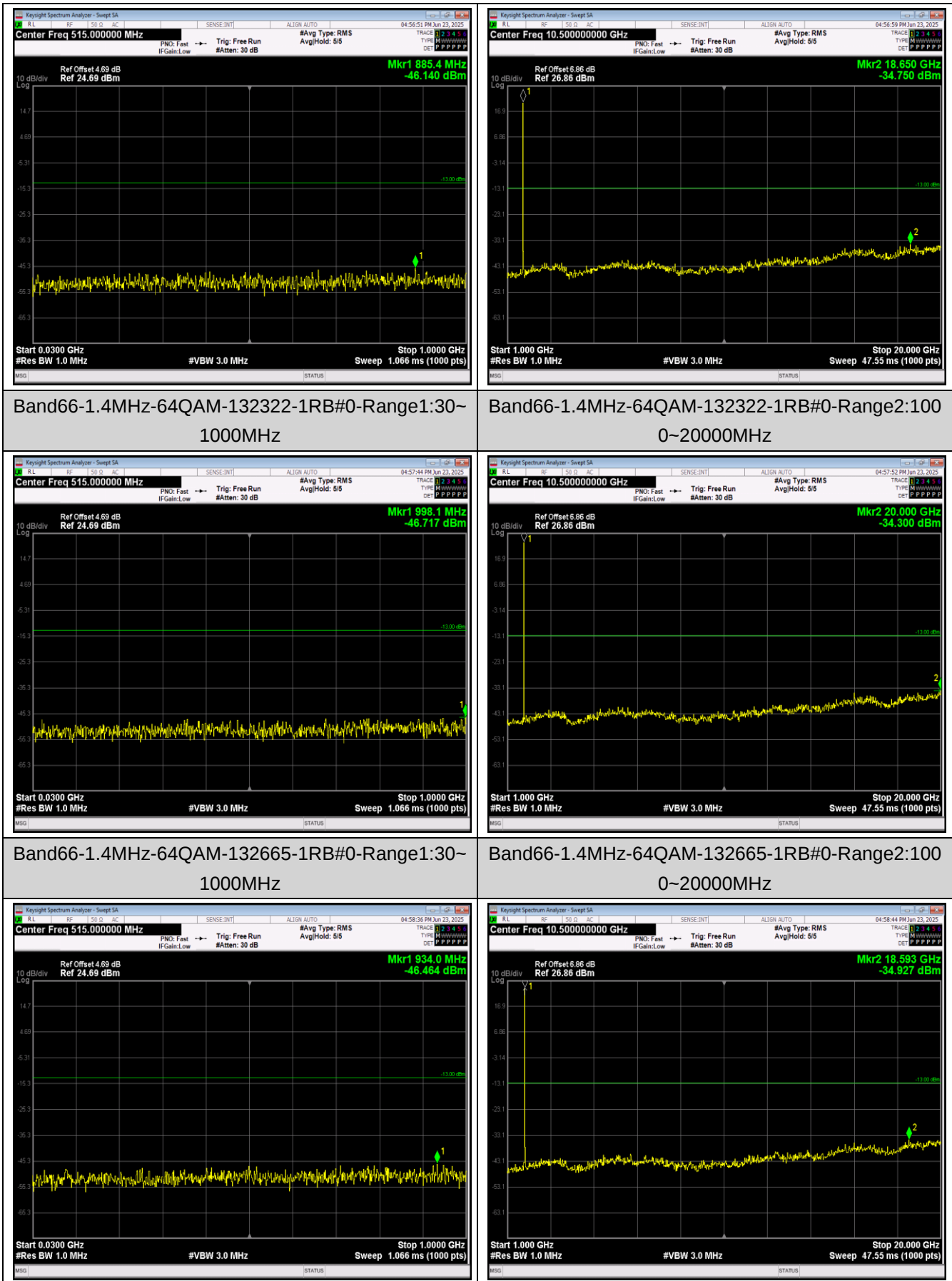


Band66-1.4MHz-64QAM-131979-1RB#0-Range1:30~1000MHz

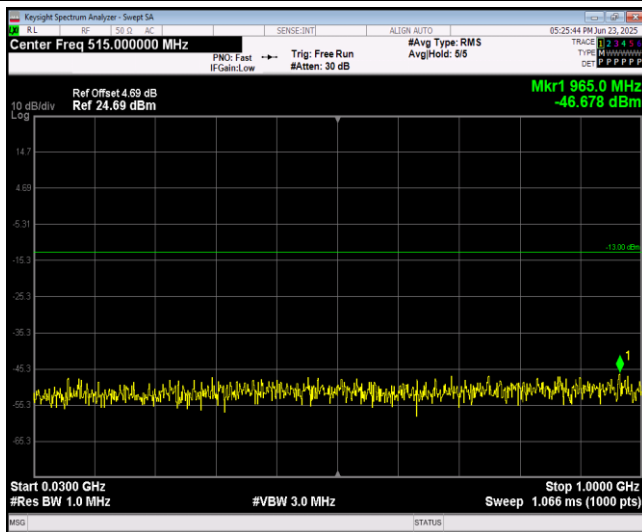


Band66-1.4MHz-64QAM-131979-1RB#0-Range2:1000~20000MHz

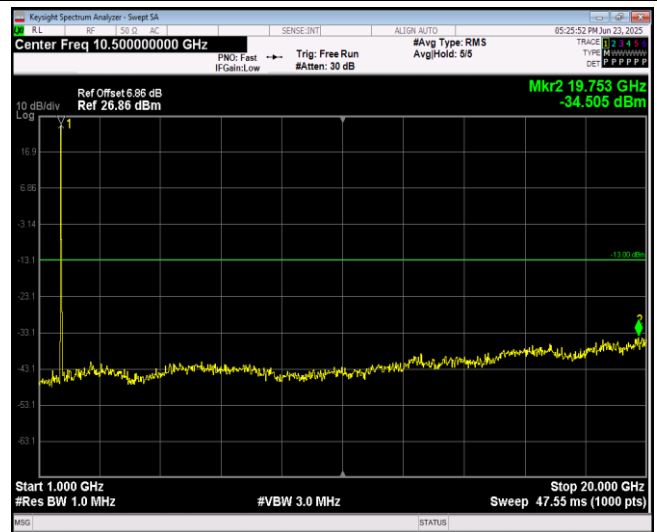




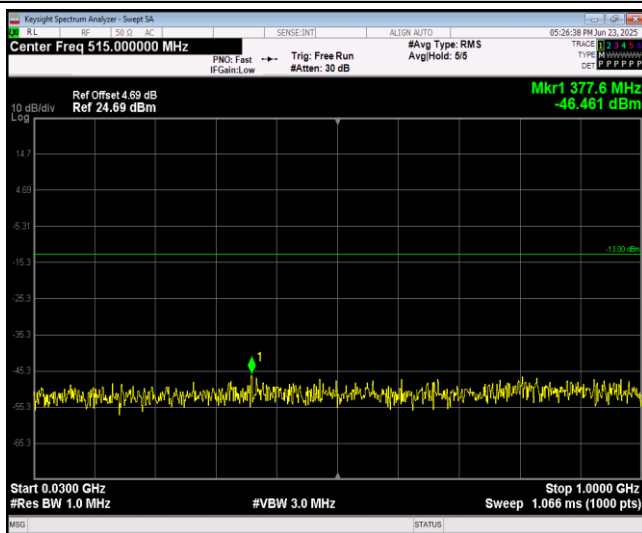
Band66-20MHz-QPSK-132072-1RB#0-Range1:30~1
000MHz



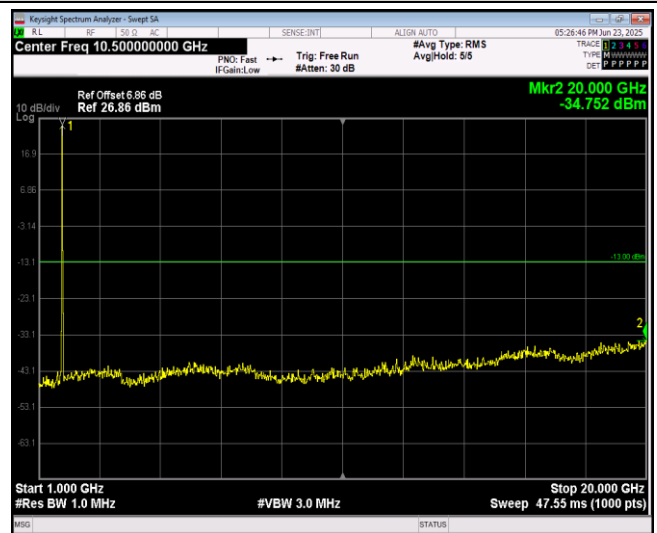
Band66-20MHz-QPSK-132072-1RB#0-Range2:1000
~20000MHz



Band66-20MHz-QPSK-132322-1RB#0-Range1:30~1
000MHz

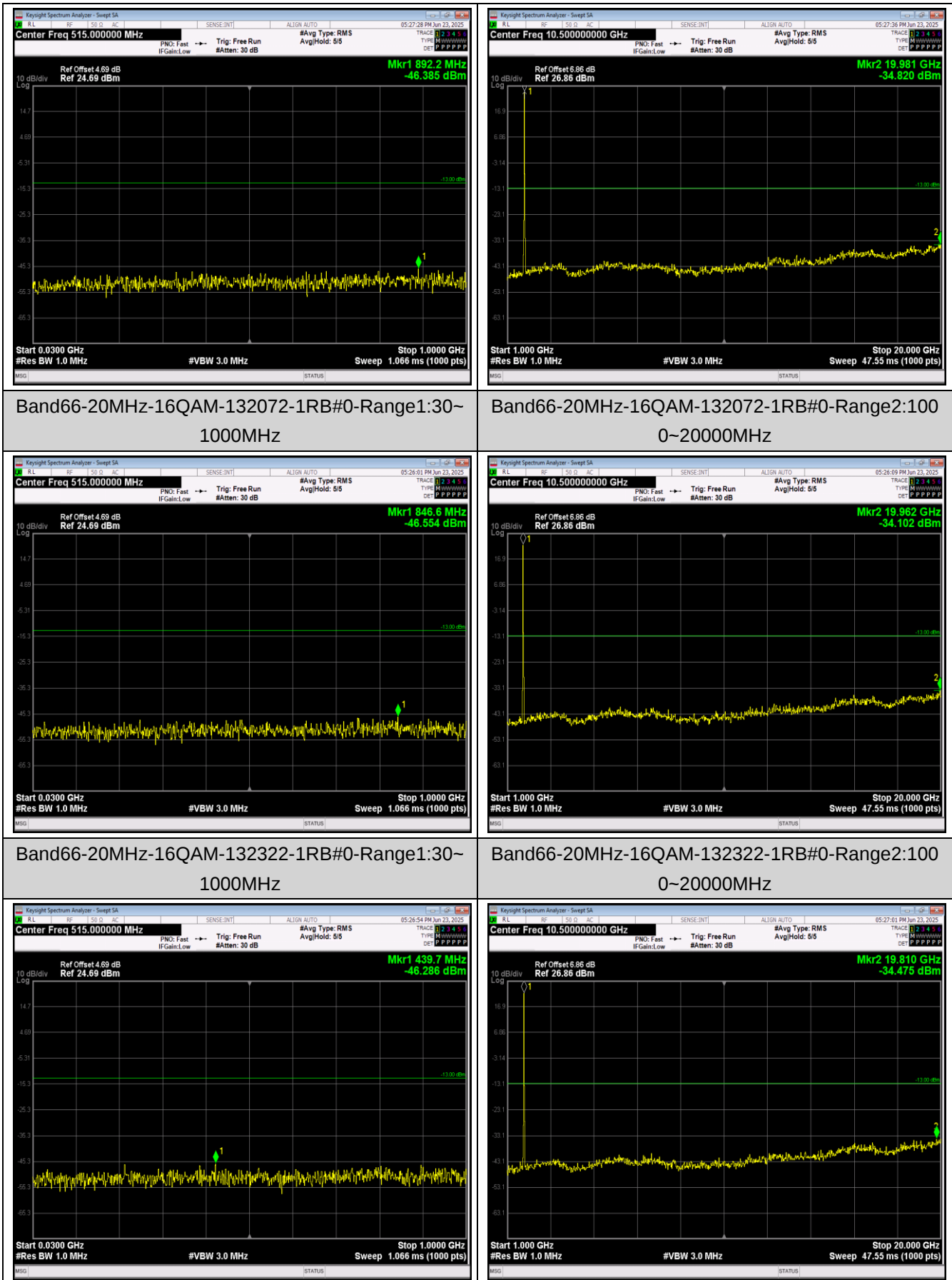


Band66-20MHz-QPSK-132322-1RB#0-Range2:1000
~20000MHz

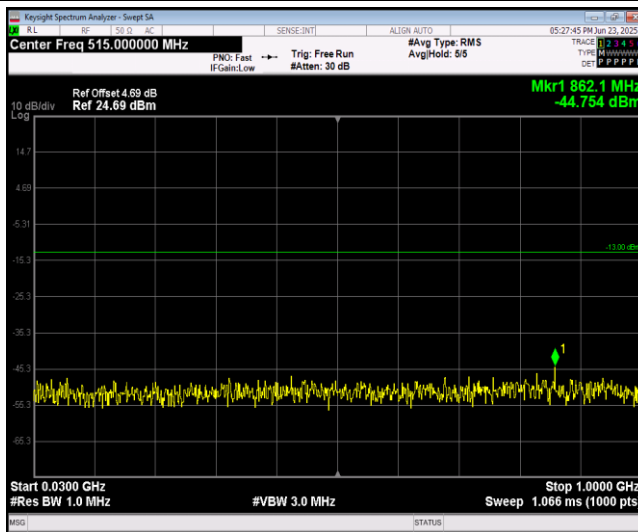


Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1
000MHz

Band66-20MHz-QPSK-132572-1RB#0-Range2:1000
~20000MHz



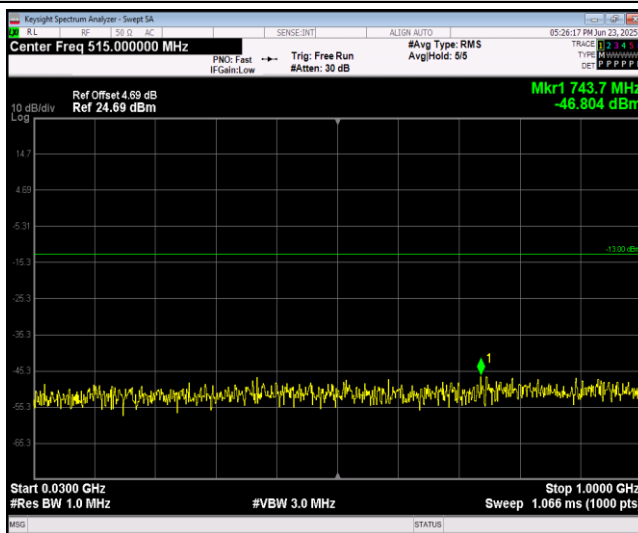
Band66-20MHz-16QAM-132572-1RB#0-Range1:30~
1000MHz



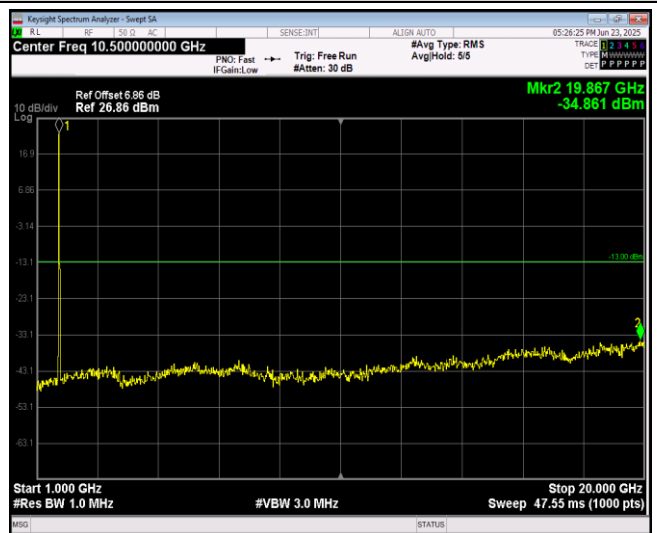
Band66-20MHz-16QAM-132572-1RB#0-Range2:100
0~20000MHz



Band66-20MHz-64QAM-132072-1RB#0-Range1:30~
1000MHz



Band66-20MHz-64QAM-132072-1RB#0-Range2:100
0~20000MHz

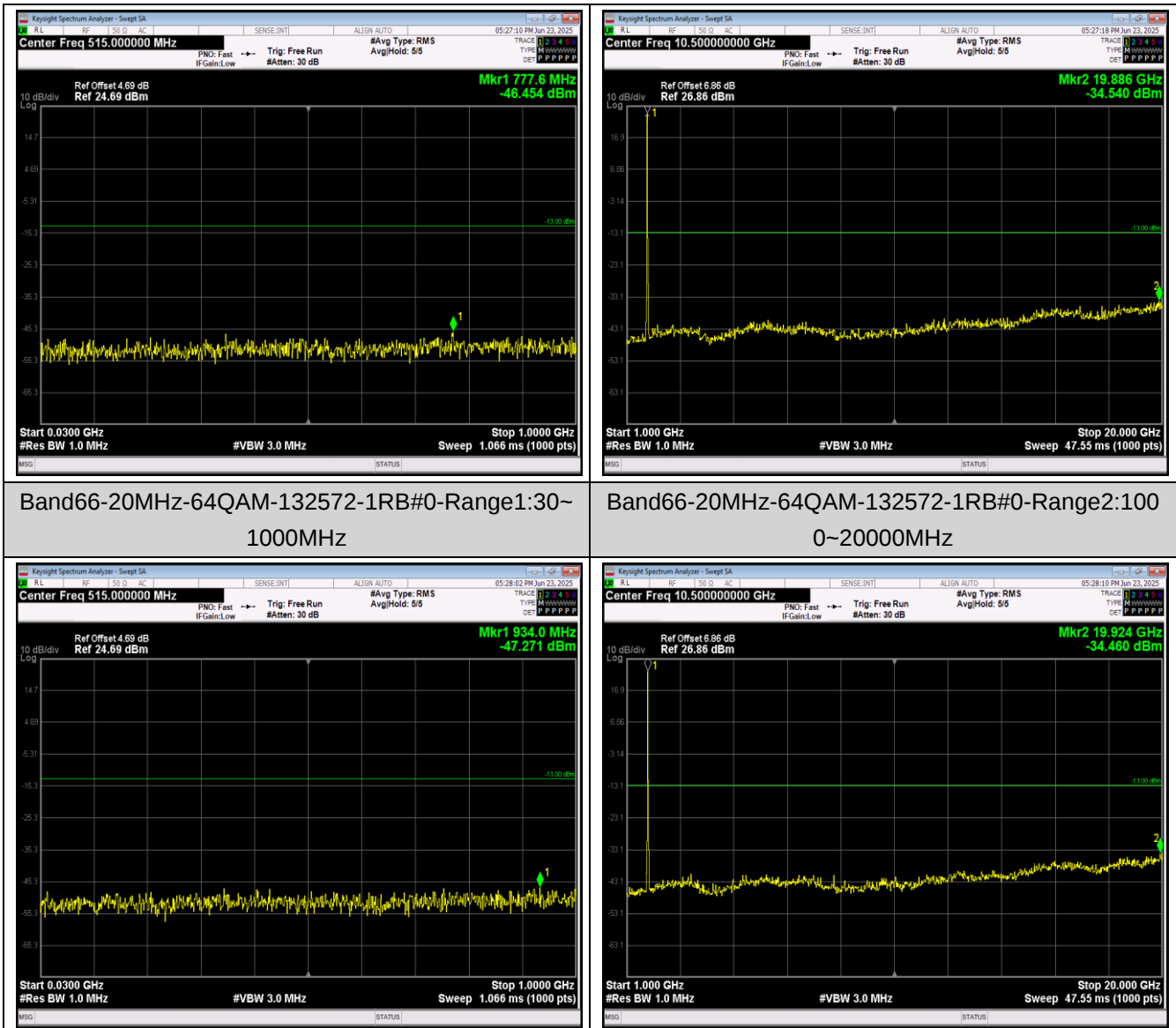


Band66-20MHz-64QAM-132322-1RB#0-Range1:30~
1000MHz



Band66-20MHz-64QAM-132322-1RB#0-Range2:100
0~20000MHz





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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-3.81	-0.002027	Within authorized band for Band 2	Pass
	-20	-5.35	-0.002846		
	-10	-11.59	-0.006165		
	0	-12.60	-0.006702		
	10	-8.90	-0.004734		
	20	5.76	0.003064		
	30	-3.20	-0.001702		
	40	8.08	0.004298		
	50	2.62	0.001394		
16QAM					
3.92	-30	2.77	0.001473	Within authorized band for Band 2	Pass
	-20	-8.47	-0.004505		
	-10	-4.55	-0.002420		
	0	-9.50	-0.005053		
	10	-14.35	-0.007633		
	20	3.27	0.001739		
	30	-3.03	-0.001612		
	40	-6.73	-0.003580		
	50	-8.98	-0.004777		
64QAM					
3.92	-30	9.94	0.005287	Within authorized band for Band 2	Pass
	-20	-9.06	-0.004819		
	-10	-8.12	-0.004319		
	0	9.63	0.005122		
	10	7.96	0.004234		
	20	-6.62	-0.003521		
	30	-12.40	-0.006596		
	40	6.17	0.003282		
	50	-8.94	-0.004755		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	5.42	0.002883	Within authorized band for Band 2	Pass
	3.92	-12.88	-0.006851		
	4.53	-15.43	-0.008207		
16QAM					
25	3.45	-8.03	-0.004271	Within authorized band for Band 2	Pass
	3.92	8.92	0.004745		
	4.53	3.25	0.001729		
64QAM					
25	3.45	-6.90	-0.003670	Within authorized band for Band 2	Pass
	3.92	9.13	0.004856		
	4.53	-3.46	-0.001840		
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					
3.92	-30	-12.07	-0.006967	Within authorized band for Band 4	Pass
	-20	3.53	0.002038		
	-10	-14.43	-0.008329		
	0	5.39	0.003111		
	10	-9.68	-0.005587		
	20	-9.15	-0.005281		
	30	-7.23	-0.004173		
	40	-7.62	-0.004398		
	50	-5.14	-0.002967		
16QAM					
3.92	-30	-6.98	-0.004029	Within authorized band for Band 4	Pass
	-20	-13.23	-0.007636		
	-10	-4.53	-0.002615		
	0	-12.88	-0.007434		
	10	-13.00	-0.007504		
	20	-8.78	-0.005068		
	30	-12.96	-0.007481		
	40	-13.87	-0.008006		
	50	5.87	0.003388		
64QAM					
3.92	-30	-5.05	-0.002915	Within authorized band for Band 4	Pass
	-20	-3.51	-0.002026		
	-10	-4.52	-0.002609		
	0	-12.66	-0.007307		
	10	9.81	0.005662		
	20	-11.59	-0.006690		
	30	-13.19	-0.007613		
	40	-12.20	-0.007042		
	50	3.62	0.002089		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-1.81	-0.001045	Within authorized band for Band 4	Pass
	3.92	7.86	0.004537		
	4.53	-7.97	-0.004600		
16QAM					
25	3.45	-3.31	-0.001911	Within authorized band for Band 4	Pass
	3.92	-6.25	-0.003608		
	4.53	5.14	0.002967		
64QAM					
25	3.45	-10.14	-0.005853	Within authorized band for Band 4	Pass
	3.92	-18.57	-0.010719		
	4.53	3.84	0.002216		
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					
3.92	-30	-1.49	-0.001781	±2.5	Pass
	-20	-3.48	-0.004160		
	-10	-8.39	-0.010030		
	0	-4.03	-0.004818		
	10	-5.61	-0.006707		
	20	-4.39	-0.005248		
	30	-1.90	-0.002271		
	40	-7.60	-0.009085		
	50	-6.32	-0.007555		
16QAM					
3.92	-30	-8.09	-0.009671	±2.5	Pass
	-20	-7.95	-0.009504		
	-10	-5.23	-0.006252		
	0	2.73	0.003264		
	10	-4.97	-0.005941		
	20	-6.89	-0.008237		
	30	-6.51	-0.007782		
	40	-3.93	-0.004698		
	50	-4.63	-0.005535		
64QAM					
3.92	-30	-7.53	-0.009002	±2.5	Pass
	-20	-4.80	-0.005738		
	-10	-6.86	-0.008201		
	0	-4.95	-0.005918		
	10	-4.41	-0.005272		
	20	-3.85	-0.004603		
	30	-7.58	-0.009062		
	40	-1.55	-0.001853		
	50	-7.53	-0.009002		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-4.85	-0.005798	±2.5	Pass
	3.92	-1.56	-0.001865		
	4.53	-5.81	-0.006946		
16QAM					
25	3.45	-2.88	-0.003443	±2.5	Pass
	3.92	-9.53	-0.011393		
	4.53	-7.76	-0.009277		
64QAM					
25	3.45	-4.73	-0.005655	±2.5	Pass
	3.92	-2.83	-0.003383		
	4.53	-6.04	-0.007221		
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					
3.92	-30	5.34	0.002107	Within authorized band for Band 7	Pass
	-20	13.55	0.005345		
	-10	-11.02	-0.004347		
	0	-15.67	-0.006181		
	10	9.85	0.003886		
	20	-14.09	-0.005558		
	30	-7.99	-0.003152		
	40	-3.68	-0.001452		
	50	8.33	0.003286		
16QAM					
3.92	-30	-18.58	-0.007329	Within authorized band for Band 7	Pass
	-20	-8.14	-0.003211		
	-10	10.85	0.004280		
	0	4.79	0.001890		
	10	-3.21	-0.001266		
	20	3.46	0.001365		
	30	-19.17	-0.007562		
	40	-8.46	-0.003337		
	50	19.37	0.007641		
64QAM					
3.92	-30	-24.16	-0.009531	Within authorized band for Band 7	Pass
	-20	15.87	0.006260		
	-10	7.50	0.002959		
	0	-22.79	-0.008990		
	10	-10.06	-0.003968		
	20	15.13	0.005968		
	30	-13.77	-0.005432		
	40	8.99	0.003546		
	50	-13.42	-0.005294		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-4.15	-0.001637	Within authorized band for Band 7	Pass
	3.92	-19.02	-0.007503		
	4.53	6.12	0.002414		
16QAM					
25	3.45	-15.26	-0.006020	Within authorized band for Band 7	Pass
	3.92	-10.71	-0.004225		
	4.53	-21.42	-0.008450		
64QAM					
25	3.45	6.33	0.002497	Within authorized band for Band 7	Pass
	3.92	-13.25	-0.005227		
	4.53	-9.39	-0.003704		
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					
3.92	-30	-4.51	-0.006375	Within authorized band for Band 12	Pass
	-20	-5.77	-0.008155		
	-10	-6.52	-0.009216		
	0	-4.42	-0.006247		
	10	2.28	0.003223		
	20	-5.59	-0.007901		
	30	-4.23	-0.005979		
	40	-5.87	-0.008297		
	50	-3.76	-0.005314		
16QAM					
3.92	-30	-8.77	-0.012396	Within authorized band for Band 12	Pass
	-20	-2.93	-0.004141		
	-10	-2.35	-0.003322		
	0	-5.80	-0.008198		
	10	-5.10	-0.007208		
	20	-7.87	-0.011124		
	30	1.93	0.002728		
	40	-5.20	-0.007350		
	50	-1.38	-0.001951		
64QAM					
3.92	-30	3.98	0.005625	Within authorized band for Band 12	Pass
	-20	-5.19	-0.007336		
	-10	-6.19	-0.008749		
	0	-4.94	-0.006982		
	10	-7.31	-0.010332		
	20	-2.14	-0.003025		
	30	1.80	0.002544		
	40	-6.06	-0.008565		
	50	-5.44	-0.007689		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-3.25	-0.004594	Within authorized band for Band 12	Pass
	3.92	-3.30	-0.004664		
	4.53	-7.31	-0.010332		
16QAM					
25	3.45	1.69	0.002389	Within authorized band for Band 12	Pass
	3.92	-4.22	-0.005965		
	4.53	3.55	0.005018		
64QAM					
25	3.45	-1.36	-0.001922	Within authorized band for Band 12	Pass
	3.92	-5.68	-0.008028		
	4.53	-3.07	-0.004339		
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 13(10MHz) Middle channel=23230 Frequency=782.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-3.85	-0.004923	Within authorized band for Band 13	Pass
	-20	-5.66	-0.007238		
	-10	-3.09	-0.003951		
	0	-9.20	-0.011765		
	10	-8.96	-0.011458		
	20	-4.43	-0.005665		
	30	-7.78	-0.009949		
	40	-3.41	-0.004361		
	50	-6.06	-0.007749		
16QAM					
3.92	-30	-5.17	-0.006611	Within authorized band for Band 13	Pass
	-20	-6.09	-0.007788		
	-10	-4.66	-0.005959		
	0	-5.87	-0.007506		
	10	1.02	0.001304		
	20	-2.41	-0.003082		
	30	-4.91	-0.006279		
	40	-8.84	-0.011304		
	50	-2.43	-0.003107		
64QAM					
3.92	-30	-6.25	-0.007992	Within authorized band for Band 13	Pass
	-20	-6.62	-0.008465		
	-10	-6.80	-0.008696		
	0	-8.86	-0.011330		
	10	-5.22	-0.006675		
	20	-6.45	-0.008248		
	30	-7.22	-0.009233		
	40	-3.13	-0.004003		
	50	-6.08	-0.007775		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-3.94	-0.005038	Within authorized band for Band 13	Pass
	3.92	-1.88	-0.002404		
	4.53	-2.70	-0.003453		
16QAM					
25	3.45	-3.56	-0.004552	Within authorized band for Band 13	Pass
	3.92	-8.60	-0.010997		
	4.53	-7.20	-0.009207		
64QAM					
25	3.45	-6.24	-0.007980	Within authorized band for Band 13	Pass
	3.92	-5.46	-0.006982		
	4.53	-6.28	-0.008031		
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					
3.92	-30	5.50	0.007746	Within authorized band for Band 17	Pass
	-20	-5.83	-0.008211		
	-10	-4.49	-0.006324		
	0	-2.27	-0.003197		
	10	4.00	0.005634		
	20	-6.69	-0.009423		
	30	-6.09	-0.008577		
	40	-5.69	-0.008014		
	50	1.51	0.002127		
16QAM					
3.92	-30	-3.10	-0.004366	Within authorized band for Band 17	Pass
	-20	-5.09	-0.007169		
	-10	-5.38	-0.007577		
	0	-6.70	-0.009437		
	10	-4.22	-0.005944		
	20	-3.47	-0.004887		
	30	-7.22	-0.010169		
	40	-1.60	-0.002254		
	50	-7.48	-0.010535		
64QAM					
3.92	-30	-5.56	-0.007831	Within authorized band for Band 17	Pass
	-20	-3.05	-0.004296		
	-10	-2.75	-0.003873		
	0	-7.26	-0.010225		
	10	-5.34	-0.007521		
	20	3.28	0.004620		
	30	-4.96	-0.006986		
	40	-11.12	-0.015662		
	50	-6.62	-0.009324		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-8.47	-0.011930	Within authorized band for Band 17	Pass
	3.92	-1.36	-0.001915		
	4.53	-7.73	-0.010887		
16QAM					
25	3.45	-5.39	-0.007592	Within authorized band for Band 17	Pass
	3.92	-4.33	-0.006099		
	4.53	-8.84	-0.012451		
64QAM					
25	3.45	-3.47	-0.004887	Within authorized band for Band 17	Pass
	3.92	-2.85	-0.004014		
	4.53	-2.46	-0.003465		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 26 part:

Reference Frequency: LTE Band 26(10MHz) Middle channel=26740 Frequency=819.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-10.18	-0.012430	Within authorized band for Band 26	Pass
	-20	-5.95	-0.007265		
	-10	2.90	0.003541		
	0	-6.48	-0.007912		
	10	-8.33	-0.010171		
	20	-9.21	-0.011245		
	30	-7.69	-0.009389		
	40	-1.67	-0.002039		
	50	-2.40	-0.002930		
16QAM					
3.92	-30	-6.13	-0.007485	Within authorized band for Band 26	Pass
	-20	3.26	0.003980		
	-10	-7.35	-0.008974		
	0	-4.48	-0.005470		
	10	-1.11	-0.001355		
	20	-4.82	-0.005885		
	30	-5.95	-0.007265		
	40	-3.44	-0.004200		
	50	1.51	0.001844		
64QAM					
3.92	-30	-6.85	-0.008364	Within authorized band for Band 26	Pass
	-20	-9.06	-0.011062		
	-10	2.57	0.003138		
	0	-2.13	-0.002601		
	10	-7.13	-0.008706		
	20	2.84	0.003468		
	30	-4.66	-0.005690		
	40	-1.18	-0.001441		
	50	-7.53	-0.009194		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.98	-0.009744	Within authorized band for Band 26	Pass
	3.92	1.13	0.001380		
	4.53	-4.32	-0.005275		
16QAM					
25	3.45	-9.29	-0.011106	Within authorized band for Band 26	Pass
	3.92	-7.38	-0.008822		
	4.53	2.34	0.002797		
64QAM					
25	3.45	-6.33	-0.007729	Within authorized band for Band 26	Pass
	3.92	-4.74	-0.005788		
	4.53	-5.24	-0.006398		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 26 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					
3.92	-30	-5.75	-0.006874	Within authorized band for Band 26	Pass
	-20	-4.75	-0.005678		
	-10	-2.75	-0.003288		
	0	-4.05	-0.004842		
	10	-4.49	-0.005368		
	20	-5.73	-0.006850		
	30	-4.90	-0.005858		
	40	-8.91	-0.010652		
	50	-6.87	-0.008213		
16QAM					
3.92	-30	-7.02	-0.008392	Within authorized band for Band 26	Pass
	-20	-9.84	-0.011763		
	-10	-9.49	-0.011345		
	0	4.31	0.005152		
	10	-7.42	-0.008870		
	20	-3.53	-0.004220		
	30	-1.72	-0.002056		
	40	-7.02	-0.008392		
	50	-8.50	-0.010161		
64QAM					
3.92	-30	-5.39	-0.006444	Within authorized band for Band 26	Pass
	-20	-6.43	-0.007687		
	-10	1.95	0.002331		
	0	-2.03	-0.002427		
	10	-3.02	-0.003610		
	20	-2.44	-0.002917		
	30	-8.70	-0.010400		
	40	-5.66	-0.006766		
	50	-8.30	-0.009922		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.34	-0.008775	Within authorized band for Band 26	Pass
	3.92	-8.40	-0.010042		
	4.53	-7.41	-0.008858		
16QAM					
25	3.45	4.22	0.005153	Within authorized band for Band 26	Pass
	3.92	-8.66	-0.010574		
	4.53	-3.96	-0.004835		
64QAM					
25	3.45	-3.21	-0.003837	Within authorized band for Band 26	Pass
	3.92	-7.60	-0.009085		
	4.53	-7.07	-0.008452		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

LTE Band 38 part:

Reference Frequency: LTE Band 38(10MHz) Middle channel=38000 Frequency=2595.0MHz					
Temperature					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	11.65	0.004489	Within authorized band for Band 38	Pass
	-20	-5.53	-0.002131		
	-10	6.61	0.002547		
	0	-4.14	-0.001595		
	10	-8.43	-0.003249		
	20	-2.56	-0.000987		
	30	-9.54	-0.003676		
	40	-2.98	-0.001148		
	50	-5.75	-0.002216		
16QAM					
3.92	-30	-5.98	-0.002304	Within authorized band for Band 38	Pass
	-20	-10.39	-0.004004		
	-10	-11.24	-0.004331		
	0	-18.49	-0.007125		
	10	-11.16	-0.004301		
	20	-12.09	-0.004659		
	30	-5.77	-0.002224		
	40	2.39	0.000921		
	50	-14.35	-0.005530		
64QAM					
3.92	-30	-6.24	-0.002405	Within authorized band for Band 38	Pass
	-20	-5.19	-0.002000		
	-10	-2.87	-0.001106		
	0	6.39	0.002462		
	10	-6.34	-0.002443		
	20	-11.79	-0.004543		
	30	-7.08	-0.002728		
	40	6.08	0.002343		
	50	-13.63	-0.005252		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-2.86	-0.001102	Within authorized band for Band 38	Pass
	3.92	-6.44	-0.002482		
	4.53	11.01	0.004243		
16QAM					
25	3.45	-7.24	-0.002790	Within authorized band for Band 38	Pass
	3.92	-11.45	-0.004412		
	4.53	-7.52	-0.002898		
64QAM					
25	3.45	3.98	0.001534	Within authorized band for Band 38	Pass
	3.92	-3.64	-0.001403		
	4.53	-4.94	-0.001904		
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					
3.92	-30	-10.50	-0.004046	Within authorized band for Band 41	Pass
	-20	-2.15	-0.000829		
	-10	8.31	0.003202		
	0	-5.59	-0.002154		
	10	-10.22	-0.003938		
	20	6.94	0.002674		
	30	-9.92	-0.003823		
	40	3.76	0.001449		
	50	-3.56	-0.001372		
16QAM					
3.92	-30	-12.05	-0.004644	Within authorized band for Band 41	Pass
	-20	10.46	0.004031		
	-10	-4.07	-0.001568		
	0	-9.94	-0.003830		
	10	-4.56	-0.001757		
	20	10.98	0.004231		
	30	-7.41	-0.002855		
	40	-5.99	-0.002308		
	50	-6.89	-0.002655		
64QAM					
3.92	-30	-14.89	-0.005738	Within authorized band for Band 41	Pass
	-20	-5.24	-0.002019		
	-10	-7.59	-0.002925		
	0	3.92	0.001511		
	10	3.77	0.001453		
	20	-4.53	-0.001746		
	30	6.44	0.002482		
	40	-4.06	-0.001565		
	50	-4.85	-0.001869		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-6.62	-0.002551	Within authorized band for Band 41	Pass
	3.92	-10.94	-0.004216		
	4.53	-9.35	-0.003603		
16QAM					
25	3.45	-4.21	-0.001622	Within authorized band for Band41	Pass
	3.92	3.54	0.001364		
	4.53	-12.47	-0.004805		
64QAM					
25	3.45	-4.55	-0.001753	Within authorized band for Band41	Pass
	3.92	-4.51	-0.001738		
	4.53	3.23	0.001245		
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					
3.92	-30	-8.94	-0.005123	Within authorized band for Band 66	Pass
	-20	7.95	0.004556		
	-10	-2.22	-0.001272		
	0	8.87	0.005083		
	10	7.44	0.004264		
	20	-7.12	-0.004080		
	30	6.16	0.003530		
	40	-8.44	-0.004837		
	50	-9.61	-0.005507		
16QAM					
3.92	-30	-10.40	-0.005960	Within authorized band for Band 66	Pass
	-20	-9.14	-0.005238		
	-10	-10.20	-0.005845		
	0	6.26	0.003587		
	10	-8.48	-0.004860		
	20	-10.00	-0.005731		
	30	-7.51	-0.004304		
	40	-3.59	-0.002057		
	50	-4.60	-0.002636		
64QAM					
3.92	-30	-9.24	-0.005295	Within authorized band for Band 66	Pass
	-20	-6.96	-0.003989		
	-10	8.16	0.004676		
	0	-1.97	-0.001129		
	10	-6.49	-0.003719		
	20	-11.18	-0.006407		
	30	-2.25	-0.001289		
	40	-3.11	-0.001782		
	50	3.99	0.002287		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	9.77	0.005599	Within authorized band for Band 66	Pass
	3.92	6.35	0.003639		
	4.53	8.10	0.004642		
16QAM					
25	3.45	-4.75	-0.002722	Within authorized band for Band 66	Pass
	3.92	-4.00	-0.002292		
	4.53	3.13	0.001794		
64QAM					
25	3.45	4.09	0.002344	Within authorized band for Band 66	Pass
	3.92	-11.41	-0.006539		
	4.53	-1.90	-0.001089		
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
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
Band38	20MHz	QPSK	38000	100RB#0	PASS	PASS
Band38	20MHz	16QAM	38000	100RB#0	PASS	PASS
Band38	20MHz	64QAM	38000	100RB#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

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

Test Graphs

