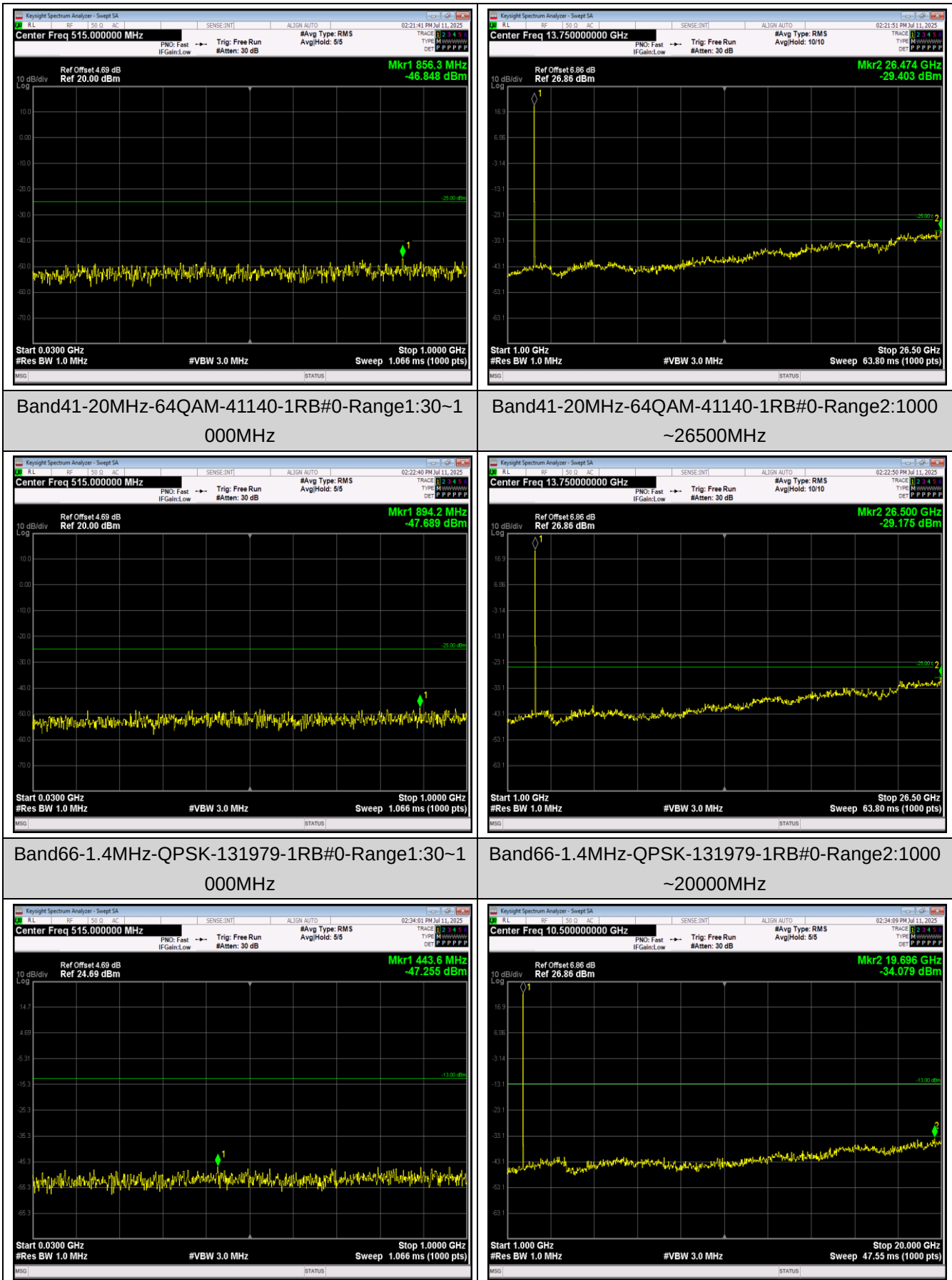


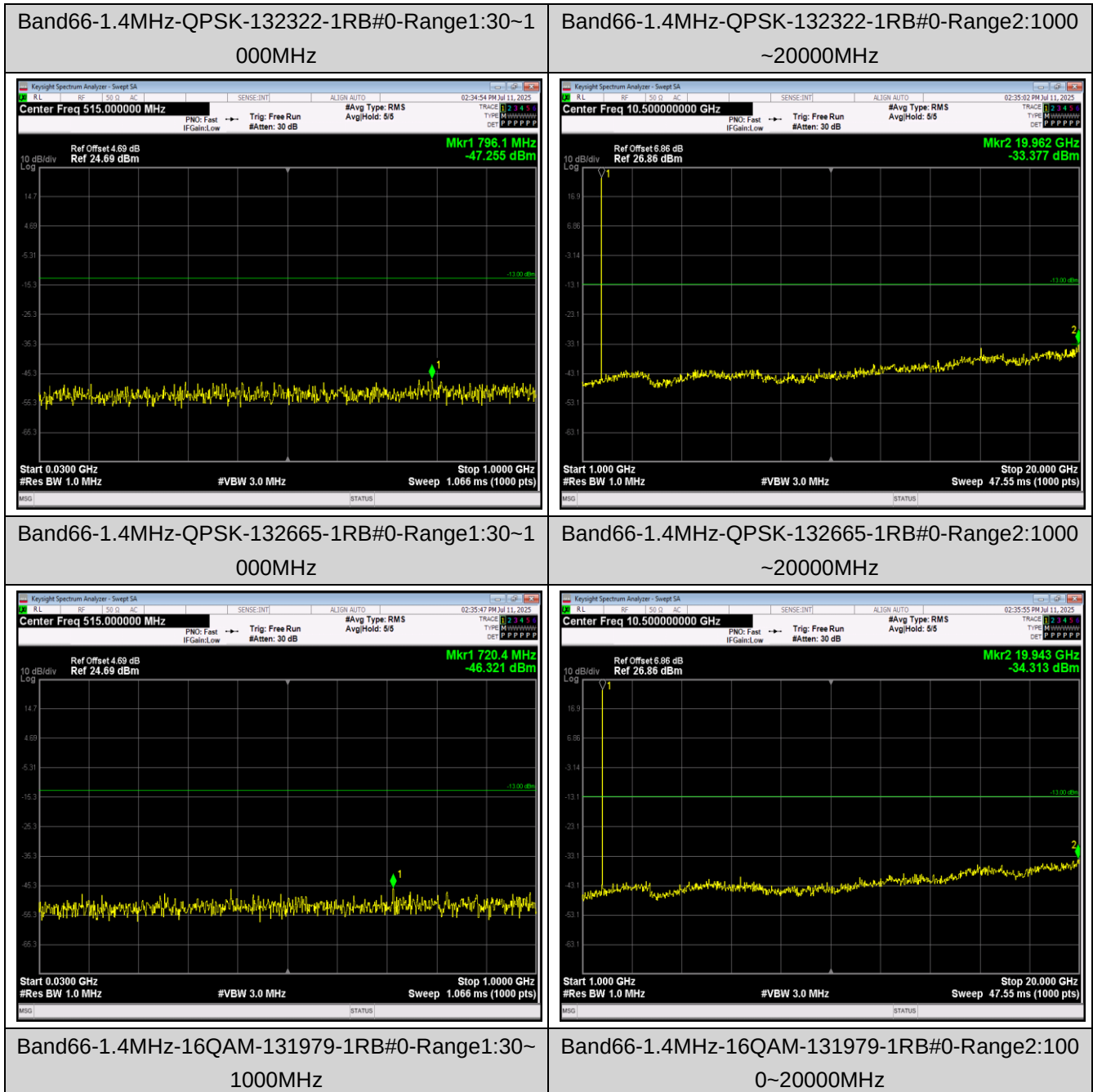


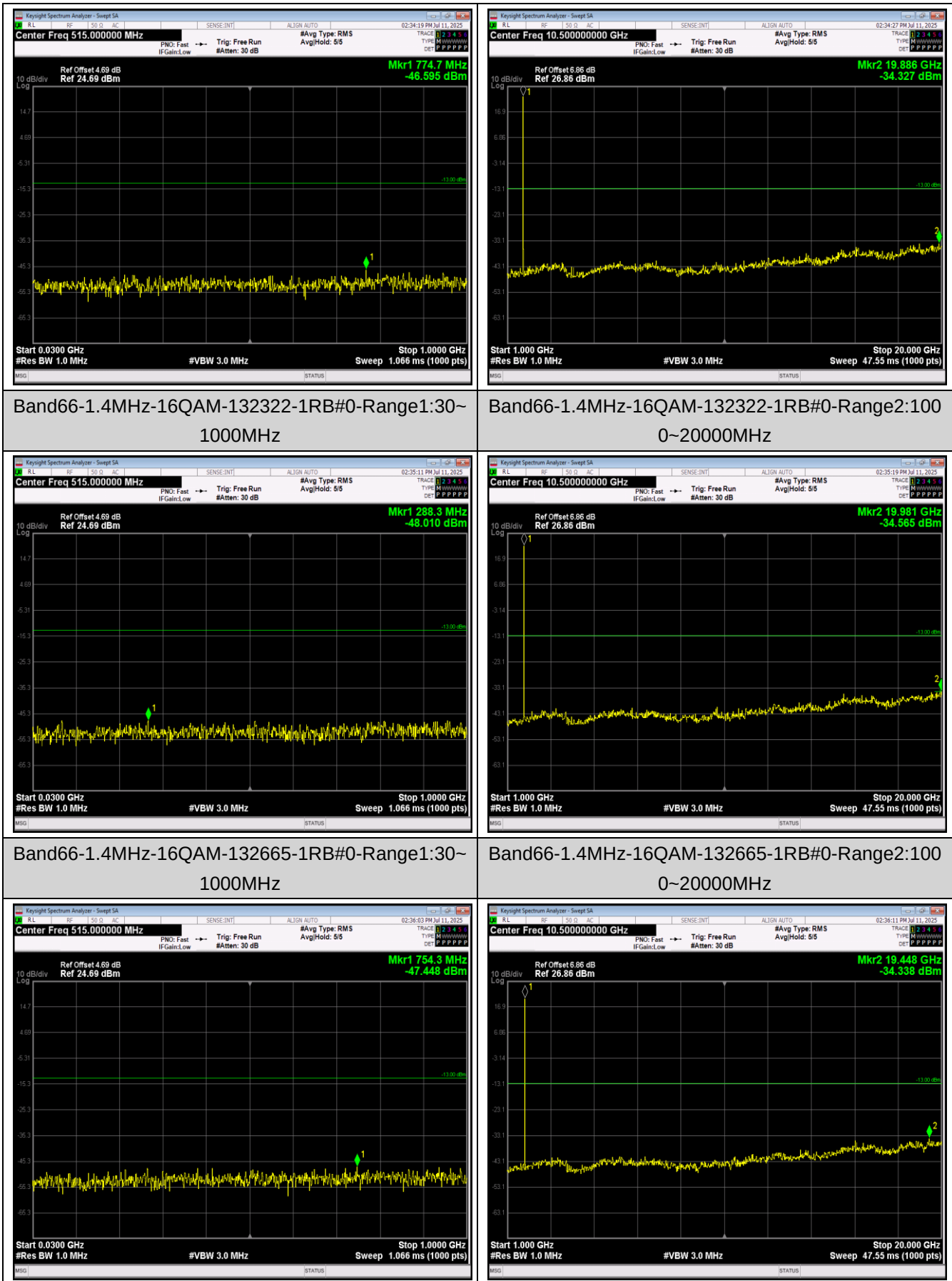
Band41-20MHz-64QAM-41140-1RB#0-Range1:30~1000MHz

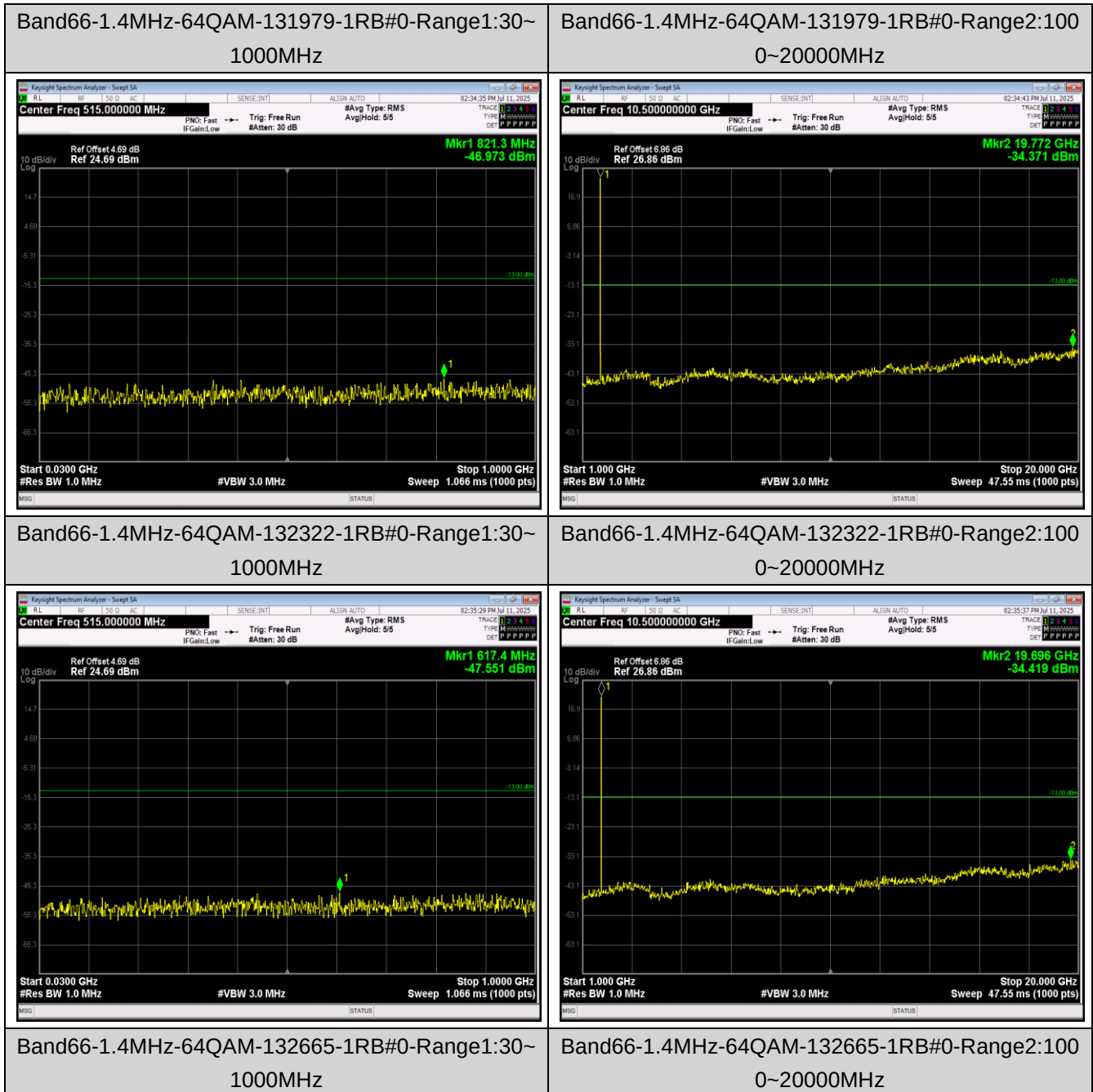
Band41-20MHz-64QAM-41140-1RB#0-Range2:1000~26500MHz

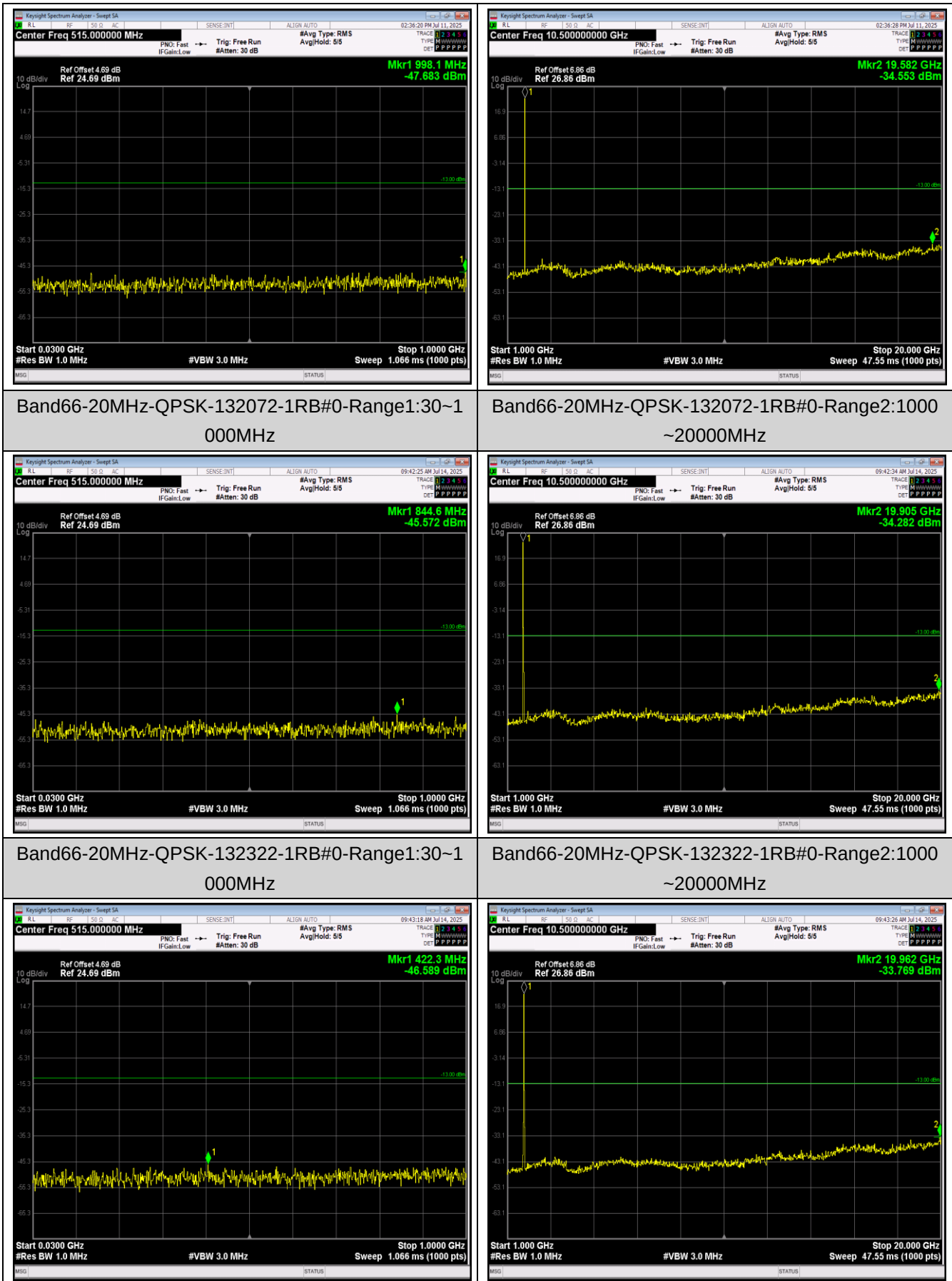
Band66-1.4MHz-QPSK-131979-1RB#0-Range1:30~1000MHz

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

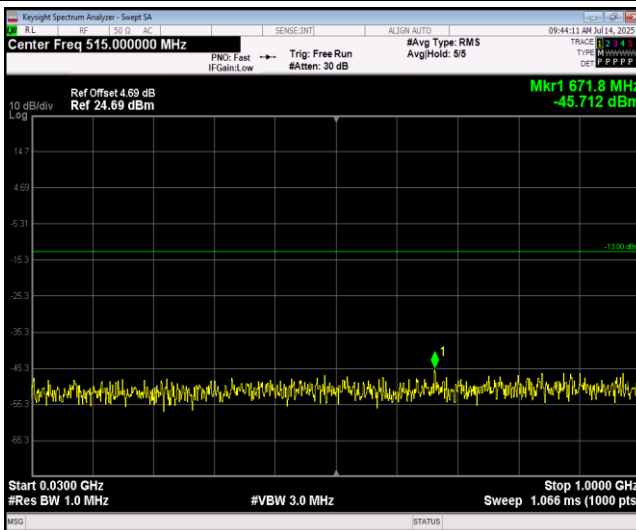








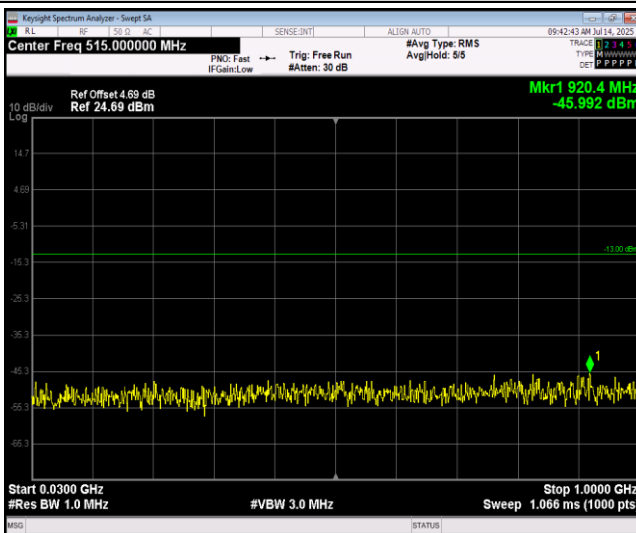
Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1
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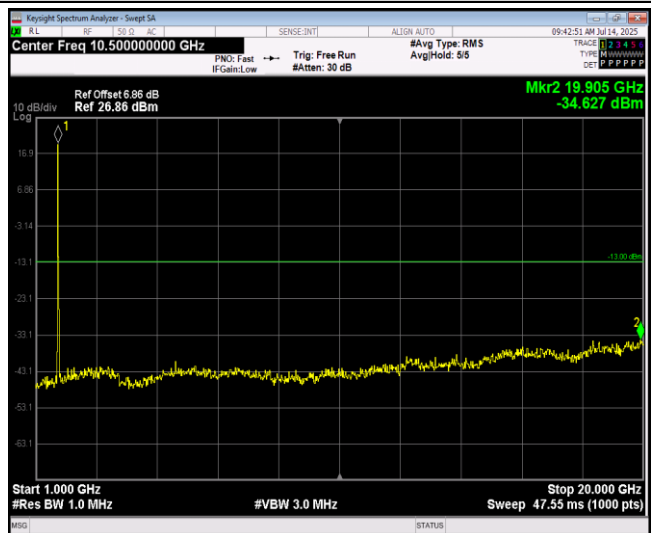
Band66-20MHz-QPSK-132572-1RB#0-Range2:1000
~20000MHz



Band66-20MHz-16QAM-132072-1RB#0-Range1:30~
1000MHz



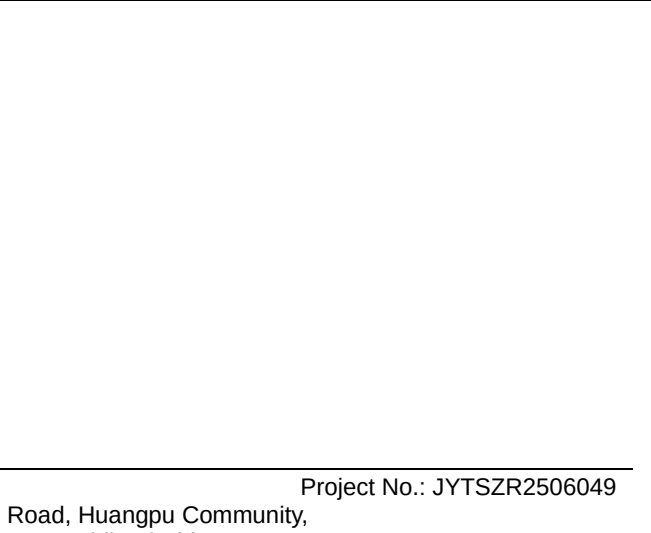
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0~20000MHz

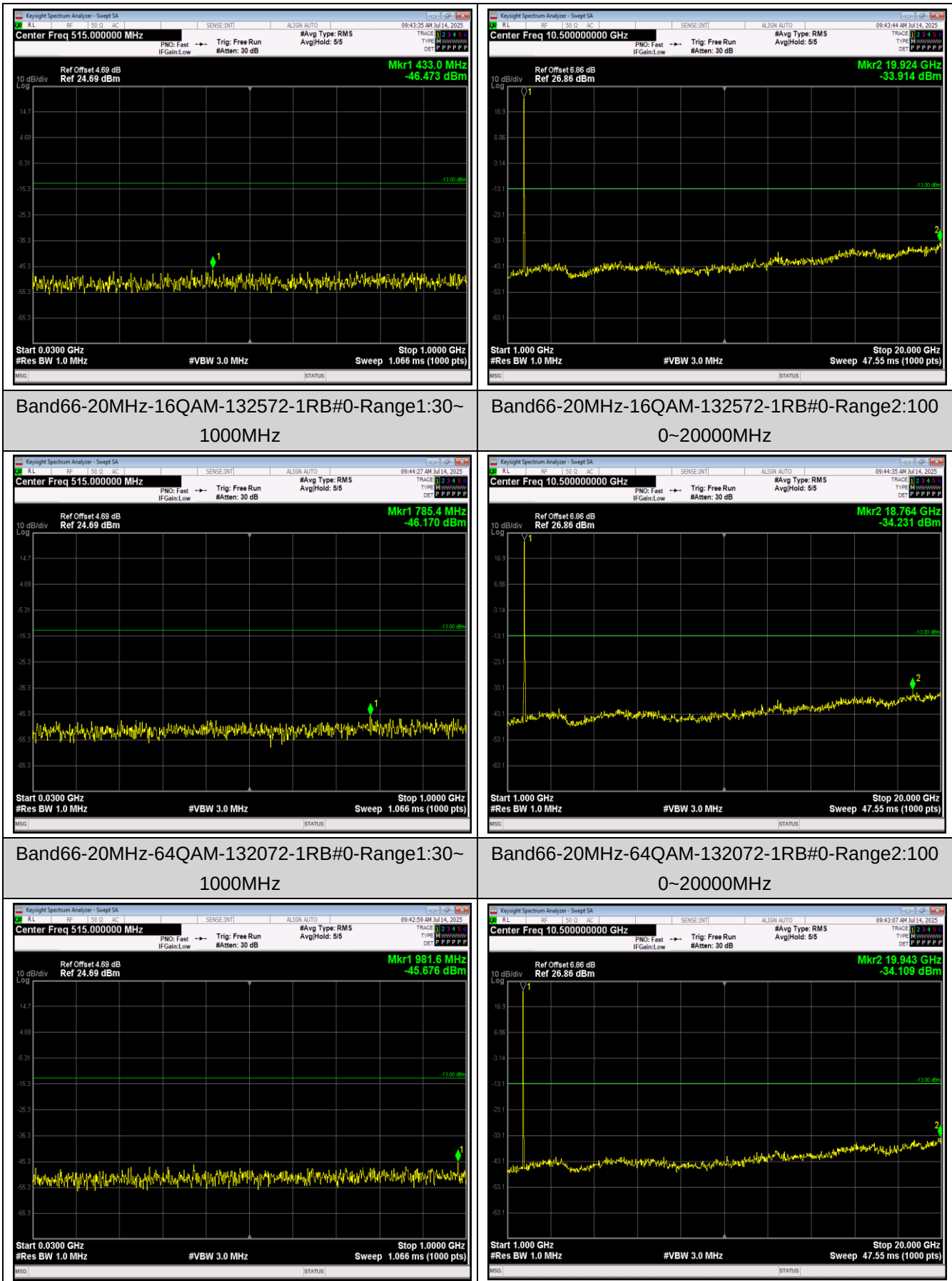


Band66-20MHz-16QAM-132322-1RB#0-Range1:30~
1000MHz

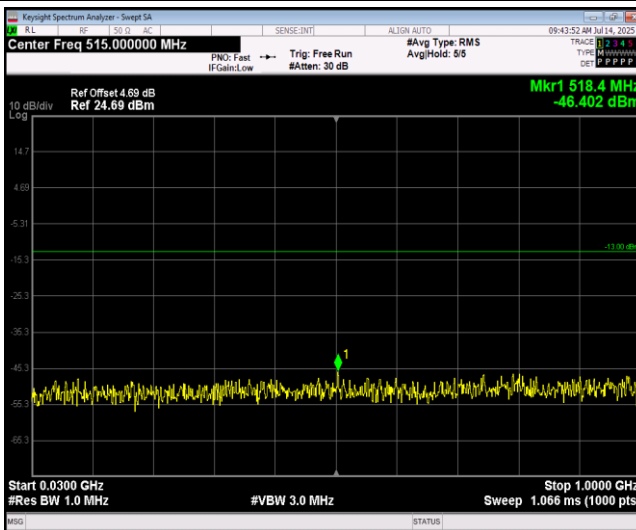


Band66-20MHz-16QAM-132322-1RB#0-Range2:100
0~20000MHz

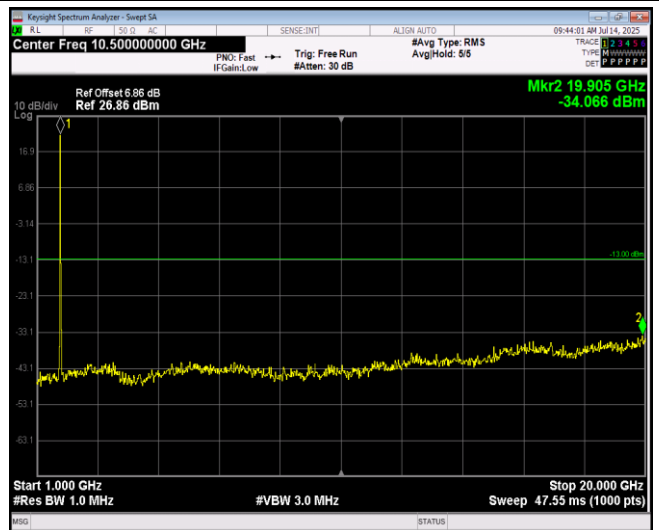




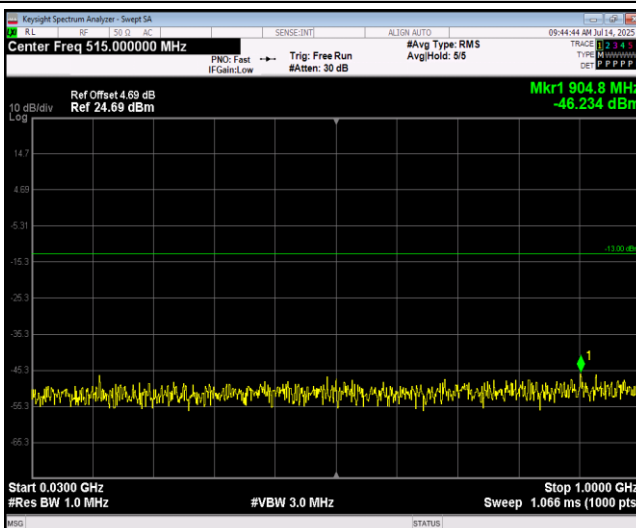
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1000MHz



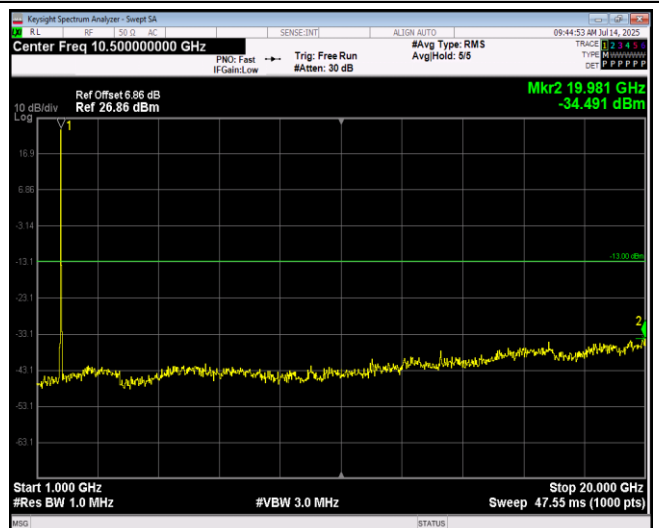
Band66-20MHz-64QAM-132322-1RB#0-Range2:100
0~20000MHz



Band66-20MHz-64QAM-132572-1RB#0-Range1:30~
1000MHz



Band66-20MHz-64QAM-132572-1RB#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					
3.85	-30	-12.16	-0.006468	Within authorized band for Band 2	Pass
	-20	-13.16	-0.007000		
	-10	-17.54	-0.009330		
	0	-17.64	-0.009383		
	10	12.17	0.006473		
	20	12.33	0.006559		
	30	8.08	0.004298		
	40	-4.62	-0.002457		
	50	-4.32	-0.002298		
16QAM					
3.85	-30	11.64	0.006191	Within authorized band for Band 2	Pass
	-20	12.13	0.006452		
	-10	-12.82	-0.006819		
	0	12.96	0.006894		
	10	13.25	0.007048		
	20	-9.36	-0.004979		
	30	11.74	0.006245		
	40	-18.35	-0.009761		
	50	14.45	0.007686		
64QAM					
3.85	-30	-12.57	-0.006686	Within authorized band for Band 2	Pass
	-20	-8.77	-0.004665		
	-10	13.02	0.006926		
	0	-11.76	-0.006255		
	10	-19.93	-0.010601		
	20	-4.61	-0.002452		
	30	14.69	0.007814		
	40	6.21	0.003303		
	50	-17.28	-0.009191		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.13	-0.004856	Within authorized band for Band 2	Pass
	3.85	-20.11	-0.010697		
	4.40	-12.33	-0.006559		
16QAM					
25	3.45	10.50	0.005585	Within authorized band for Band 2	Pass
	3.85	-3.88	-0.002064		
	4.40	-13.30	-0.007074		
64QAM					
25	3.45	-14.56	-0.007745	Within authorized band for Band 2	Pass
	3.85	-20.50	-0.010904		
	4.40	10.69	0.005686		
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					
3.85	-30	-6.78	-0.003913	Within authorized band for Band 4	Pass
	-20	5.81	0.003354		
	-10	-11.77	-0.006794		
	0	12.07	0.006967		
	10	-5.82	-0.003359		
	20	-9.17	-0.005293		
	30	-12.73	-0.007348		
	40	-9.94	-0.005737		
	50	-12.26	-0.007076		
16QAM					
3.85	-30	11.33	0.006540	Within authorized band for Band 4	Pass
	-20	-7.37	-0.004254		
	-10	-10.37	-0.005986		
	0	10.01	0.005778		
	10	-3.56	-0.002055		
	20	-11.40	-0.006580		
	30	6.15	0.003550		
	40	3.33	0.001922		
	50	7.90	0.004560		
64QAM					
3.85	-30	5.78	0.003336	Within authorized band for Band 4	Pass
	-20	-11.43	-0.006597		
	-10	-10.26	-0.005922		
	0	-16.34	-0.009431		
	10	-8.35	-0.004820		
	20	9.64	0.005564		
	30	-8.83	-0.005097		
	40	-7.42	-0.004283		
	50	-12.66	-0.007307		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.13	-0.005270	Within authorized band for Band 4	Pass
	3.85	10.97	0.006332		
	4.40	-15.56	-0.008981		
16QAM					
25	3.45	6.68	0.003856	Within authorized band for Band 4	Pass
	3.85	4.09	0.002361		
	4.40	-15.81	-0.009126		
64QAM					
25	3.45	-12.36	-0.007134	Within authorized band for Band 4	Pass
	3.85	-11.69	-0.006747		
	4.40	3.96	0.002286		
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					
3.85	-30	-3.10	-0.003706	±2.5	Pass
	-20	2.73	0.003264		
	-10	-6.22	-0.007436		
	0	5.45	0.006515		
	10	-9.26	-0.011070		
	20	-9.31	-0.011130		
	30	-9.43	-0.011273		
	40	-7.48	-0.008942		
	50	-7.75	-0.009265		
16QAM					
3.85	-30	-8.65	-0.010341	±2.5	Pass
	-20	5.26	0.006288		
	-10	3.33	0.003981		
	0	-9.74	-0.011644		
	10	-9.61	-0.011488		
	20	-7.47	-0.008930		
	30	-3.68	-0.004399		
	40	-8.43	-0.010078		
	50	6.22	0.007436		
64QAM					
3.85	-30	-8.15	-0.009743	±2.5	Pass
	-20	-8.84	-0.010568		
	-10	3.71	0.004435		
	0	-6.97	-0.008332		
	10	-7.71	-0.009217		
	20	3.03	0.003622		
	30	-9.36	-0.011189		
	40	-8.64	-0.010329		
	50	-8.40	-0.010042		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	2.13	0.002546	±2.5	Pass
	3.85	-8.87	-0.010604		
	4.40	4.76	0.005690		
16QAM					
25	3.45	-4.16	-0.004973	±2.5	Pass
	3.85	4.51	0.005392		
	4.40	-7.97	-0.009528		
64QAM					
25	3.45	-7.54	-0.009014	±2.5	Pass
	3.85	-12.67	-0.015146		
	4.40	-6.51	-0.007782		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-21.77	-0.008588	Within authorized band for Band 7	Pass
	-20	5.68	0.002241		
	-10	-17.07	-0.006734		
	0	-18.77	-0.007404		
	10	-26.15	-0.010316		
	20	-17.55	-0.006923		
	30	17.78	0.007014		
	40	-17.87	-0.007049		
	50	12.29	0.004848		
16QAM					
3.85	-30	17.37	0.006852	Within authorized band for Band 7	Pass
	-20	-19.88	-0.007842		
	-10	-17.42	-0.006872		
	0	15.39	0.006071		
	10	-15.46	-0.006099		
	20	-17.04	-0.006722		
	30	-11.79	-0.004651		
	40	-3.48	-0.001373		
	50	9.94	0.003921		
64QAM					
3.85	-30	-26.06	-0.010280	Within authorized band for Band 7	Pass
	-20	-22.59	-0.008911		
	-10	-21.26	-0.008387		
	0	-21.57	-0.008509		
	10	8.63	0.003404		
	20	11.23	0.004430		
	30	-18.85	-0.007436		
	40	7.38	0.002911		
	50	18.65	0.007357		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-13.69	-0.005400	Within authorized band for Band 7	Pass
	3.85	3.68	0.001452		
	4.40	-16.24	-0.006406		
16QAM					
25	3.45	15.15	0.005976	Within authorized band for Band 7	Pass
	3.85	10.14	0.004000		
	4.40	-8.90	-0.003511		
64QAM					
25	3.45	17.22	0.006793	Within authorized band for Band 7	Pass
	3.85	-20.53	-0.008099		
	4.40	-18.78	-0.007408		
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					
3.85	-30	5.02	0.007095	Within authorized band for Band 12	Pass
	-20	-6.15	-0.008693		
	-10	-4.56	-0.006445		
	0	4.16	0.005880		
	10	-5.82	-0.008226		
	20	-3.63	-0.005131		
	30	4.15	0.005866		
	40	-5.34	-0.007548		
	50	-2.98	-0.004212		
16QAM					
3.85	-30	-2.76	-0.003901	Within authorized band for Band 12	Pass
	-20	-7.25	-0.010247		
	-10	-6.77	-0.009569		
	0	-6.57	-0.009286		
	10	2.60	0.003675		
	20	-5.55	-0.007845		
	30	-10.04	-0.014191		
	40	-6.59	-0.009314		
	50	-6.02	-0.008509		
64QAM					
3.85	-30	-6.91	-0.009767	Within authorized band for Band 12	Pass
	-20	-9.91	-0.014007		
	-10	-4.32	-0.006106		
	0	-6.74	-0.009527		
	10	-7.12	-0.010064		
	20	2.83	0.004000		
	30	-5.95	-0.008410		
	40	-7.81	-0.011039		
	50	-5.55	-0.007845		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-8.21	-0.011604	Within authorized band for Band 12	Pass
	3.85	-5.35	-0.007562		
	4.40	5.26	0.007435		
16QAM					
25	3.45	5.56	0.007859	Within authorized band for Band 12	Pass
	3.85	-3.02	-0.004269		
	4.40	-3.92	-0.005541		
64QAM					
25	3.45	-6.54	-0.009244	Within authorized band for Band 12	Pass
	3.85	1.30	0.001837		
	4.40	-6.39	-0.009032		
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					
3.85	-30	-27.41	-0.014580	Within authorized band for Band 13	Pass
	-20	-55.43	-0.029484		
	-10	-43.19	-0.022973		
	0	15.08	0.008021		
	10	-27.52	-0.014638		
	20	-54.60	-0.029043		
	30	-50.90	-0.027074		
	40	-26.36	-0.014021		
	50	-30.53	-0.016239		
16QAM					
3.85	-30	-9.96	-0.012737	Within authorized band for Band 13	Pass
	-20	-8.97	-0.011471		
	-10	-7.77	-0.009936		
	0	-7.07	-0.009041		
	10	-7.10	-0.009079		
	20	-10.91	-0.013951		
	30	-8.70	-0.011125		
	40	-9.67	-0.012366		
	50	-5.56	-0.007110		
64QAM					
3.85	-30	-6.11	-0.007813	Within authorized band for Band 13	Pass
	-20	-6.71	-0.008581		
	-10	5.44	0.006957		
	0	-8.00	-0.010230		
	10	-6.24	-0.007980		
	20	5.59	0.007148		
	30	-7.70	-0.009847		
	40	-1.92	-0.002455		
	50	-2.20	-0.002813		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-23.88	-0.012702	Within authorized band for Band 13	Pass
	3.85	-13.18	-0.007011		
	4.40	8.97	0.004771		
16QAM					
25	3.45	-6.90	-0.008824	Within authorized band for Band 13	Pass
	3.85	-12.95	-0.016560		
	4.40	-7.65	-0.009783		
64QAM					
25	3.45	1.87	0.002391	Within authorized band for Band 13	Pass
	3.85	-8.85	-0.011317		
	4.40	-8.08	-0.010332		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-7.27	-0.010239	Within authorized band for Band 17	Pass
	-20	-6.05	-0.008521		
	-10	-6.02	-0.008479		
	0	-9.04	-0.012732		
	10	-4.98	-0.007014		
	20	1.40	0.001972		
	30	-7.34	-0.010338		
	40	-6.15	-0.008662		
	50	-3.49	-0.004915		
16QAM					
3.85	-30	-7.52	-0.010592	Within authorized band for Band 17	Pass
	-20	-4.85	-0.006831		
	-10	-6.08	-0.008563		
	0	-6.14	-0.008648		
	10	-7.41	-0.010437		
	20	-7.37	-0.010380		
	30	7.02	0.009887		
	40	-3.65	-0.005141		
	50	-7.24	-0.010197		
64QAM					
3.85	-30	-6.38	-0.008986	Within authorized band for Band 17	Pass
	-20	-9.16	-0.012901		
	-10	-6.55	-0.009225		
	0	-7.62	-0.010732		
	10	-7.14	-0.010056		
	20	-6.85	-0.009648		
	30	-4.05	-0.005704		
	40	-6.72	-0.009465		
	50	-2.80	-0.003944		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	3.09	0.004352	Within authorized band for Band 17	Pass
	3.85	-6.81	-0.009592		
	4.40	-7.12	-0.010028		
16QAM					
25	3.45	-7.95	-0.011197	Within authorized band for Band 17	Pass
	3.85	-10.31	-0.014521		
	4.40	-3.45	-0.004859		
64QAM					
25	3.45	-4.85	-0.006831	Within authorized band for Band 17	Pass
	3.85	-6.09	-0.008577		
	4.40	-8.58	-0.012085		
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 25(10MHz) Middle channel=26365 Frequency1882.5MHz					
Temperature					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	10.11	0.005371	Within authorized band for Band 25	Pass
	-20	9.41	0.004999		
	-10	-7.71	-0.004096		
	0	-12.12	-0.006438		
	10	-10.73	-0.005700		
	20	-16.97	-0.009015		
	30	9.73	0.005169		
	40	-11.60	-0.006162		
	50	3.49	0.001854		
16QAM					
3.85	-30	12.82	0.006810	Within authorized band for Band 25	Pass
	-20	9.78	0.005195		
	-10	11.14	0.005918		
	0	13.63	0.007240		
	10	2.52	0.001339		
	20	-9.21	-0.004892		
	30	13.66	0.007256		
	40	-16.02	-0.008510		
	50	-13.83	-0.007347		
64QAM					
3.85	-30	-13.00	-0.006906	Within authorized band for Band 25	Pass
	-20	7.62	0.004048		
	-10	-10.53	-0.005594		
	0	-6.02	-0.003198		
	10	11.14	0.005918		
	20	4.48	0.002380		
	30	-12.75	-0.006773		
	40	7.42	0.003942		
	50	-6.07	-0.003224		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	8.70	0.004622	Within authorized band for Band 25	Pass
	3.85	-5.54	-0.002943		
	4.40	-6.58	-0.003495		
16QAM					
25	3.45	-9.63	-0.005116	Within authorized band for Band 25	Pass
	3.85	7.55	0.004011		
	4.40	-6.45	-0.003426		
64QAM					
25	3.45	7.02	0.003729	Within authorized band for Band 25	Pass
	3.85	13.99	0.007432		
	4.40	9.40	0.004993		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-6.64	-0.008107	Within authorized band for Band 26	Pass
	-20	-9.77	-0.011929		
	-10	-5.97	-0.007289		
	0	-6.08	-0.007424		
	10	-7.88	-0.009621		
	20	-7.93	-0.009683		
	30	-7.00	-0.008547		
	40	-9.54	-0.011648		
	50	-8.93	-0.010904		
16QAM					
3.85	-30	-10.01	-0.012222	Within authorized band for Band 26	Pass
	-20	-9.94	-0.012137		
	-10	-8.63	-0.010537		
	0	-9.17	-0.011197		
	10	-9.10	-0.011111		
	20	4.05	0.004945		
	30	-6.84	-0.008352		
	40	-5.11	-0.006239		
	50	-4.78	-0.005836		
64QAM					
3.85	-30	-9.97	-0.012173	Within authorized band for Band 26	Pass
	-20	-7.18	-0.008767		
	-10	-7.27	-0.008877		
	0	-5.66	-0.006911		
	10	-6.87	-0.008388		
	20	-3.09	-0.003773		
	30	-7.40	-0.009035		
	40	-5.62	-0.006862		
	50	-1.89	-0.002308		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-6.08	-0.007424	Within authorized band for Band 26	Pass
	3.85	-4.72	-0.005763		
	4.40	-6.02	-0.007350		
16QAM					
25	3.45	-2.10	-0.002510	Within authorized band for Band 26	Pass
	3.85	-8.25	-0.009863		
	4.40	-6.22	-0.007436		
64QAM					
25	3.45	-11.33	-0.013834	Within authorized band for Band 26	Pass
	3.85	-10.20	-0.012454		
	4.40	-4.42	-0.005397		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	-9.07	-0.010843	Within authorized band for Band 26	Pass
	-20	-4.05	-0.004842		
	-10	-9.38	-0.011213		
	0	-8.44	-0.010090		
	10	-6.22	-0.007436		
	20	-6.91	-0.008261		
	30	3.49	0.004172		
	40	-7.74	-0.009253		
	50	-7.75	-0.009265		
16QAM					
3.85	-30	-4.98	-0.005953	Within authorized band for Band 26	Pass
	-20	-5.08	-0.006073		
	-10	-4.45	-0.005320		
	0	-7.85	-0.009384		
	10	-2.50	-0.002989		
	20	-6.52	-0.007794		
	30	-5.45	-0.006515		
	40	-11.73	-0.014023		
	50	-7.21	-0.008619		
64QAM					
3.85	-30	3.55	0.004244	Within authorized band for Band 26	Pass
	-20	-7.62	-0.009109		
	-10	-4.05	-0.004842		
	0	3.18	0.003802		
	10	-9.66	-0.011548		
	20	-2.93	-0.003503		
	30	-3.23	-0.003861		
	40	-8.84	-0.010568		
	50	-3.68	-0.004399		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-7.24	-0.008655	Within authorized band for Band 26	Pass
	3.85	-5.81	-0.006946		
	4.40	-8.21	-0.009815		
16QAM					
25	3.45	-8.61	-0.010513	Within authorized band for Band 26	Pass
	3.85	-7.68	-0.009377		
	4.40	-5.91	-0.007216		
64QAM					
25	3.45	-3.26	-0.003897	Within authorized band for Band 26	Pass
	3.85	-2.40	-0.002869		
	4.40	-7.17	-0.008571		
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 (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.85	-30	6.72	0.002590	Within authorized band for Band 38	Pass
	-20	12.10	0.004663		
	-10	4.88	0.001881		
	0	-7.17	-0.002763		
	10	9.10	0.003507		
	20	7.64	0.002944		
	30	-10.50	-0.004046		
	40	-11.89	-0.004582		
	50	-15.65	-0.006031		
16QAM					
3.85	-30	-12.02	-0.004632	Within authorized band for Band 38	Pass
	-20	-5.92	-0.002281		
	-10	10.44	0.004023		
	0	-10.10	-0.003892		
	10	6.48	0.002497		
	20	-13.15	-0.005067		
	30	-9.28	-0.003576		
	40	-10.37	-0.003996		
	50	-9.98	-0.003846		
64QAM					
3.85	-30	-7.50	-0.002890	Within authorized band for Band 38	Pass
	-20	-12.63	-0.004867		
	-10	5.48	0.002112		
	0	5.91	0.002277		
	10	-3.30	-0.001272		
	20	5.21	0.002008		
	30	-12.82	-0.004940		
	40	9.68	0.003730		
	50	-10.66	-0.004108		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-8.91	-0.003434	Within authorized band for Band 38	Pass
	3.85	-13.29	-0.005121		
	4.40	15.32	0.005904		
16QAM					
25	3.45	-4.49	-0.001730	Within authorized band for Band 38	Pass
	3.85	-5.66	-0.002181		
	4.40	-9.67	-0.003726		
64QAM					
25	3.45	-13.56	-0.005225	Within authorized band for Band 38	Pass
	3.85	-10.34	-0.003985		
	4.40	-14.43	-0.005561		
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					
3.85	-30	-9.78	-0.003769	Within authorized band for Band 41	Pass
	-20	-1.86	-0.000717		
	-10	-5.09	-0.001961		
	0	20.03	0.007719		
	10	-10.50	-0.004046		
	20	-7.98	-0.003075		
	30	-10.80	-0.004162		
	40	-17.74	-0.006836		
	50	19.88	0.007661		
16QAM					
3.85	-30	-19.86	-0.007653	Within authorized band for Band 41	Pass
	-20	-8.71	-0.003356		
	-10	-19.23	-0.007410		
	0	11.43	0.004405		
	10	7.02	0.002705		
	20	-12.95	-0.004990		
	30	-7.50	-0.002890		
	40	-15.55	-0.005992		
	50	17.57	0.006771		
64QAM					
3.85	-30	13.06	0.005033	Within authorized band for Band 41	Pass
	-20	-7.91	-0.003048		
	-10	-15.25	-0.005877		
	0	-15.46	-0.005958		
	10	-12.00	-0.004624		
	20	-8.17	-0.003148		
	30	14.19	0.005468		
	40	-8.83	-0.003403		
	50	-8.80	-0.003391		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	6.41	0.002470	Within authorized band for Band 41	Pass
	3.85	11.54	0.004447		
	4.40	-9.83	-0.003788		
16QAM					
25	3.45	15.88	0.006119	Within authorized band for Band41	Pass
	3.85	-7.42	-0.002859		
	4.40	12.36	0.004763		
64QAM					
25	3.45	-5.08	-0.001958	Within authorized band for Band41	Pass
	3.85	13.85	0.005337		
	4.40	-8.64	-0.003329		
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					
3.85	-30	-6.91	-0.003960	Within authorized band for Band 66	Pass
	-20	-6.35	-0.003639		
	-10	12.43	0.007123		
	0	-2.13	-0.001221		
	10	6.09	0.003490		
	20	14.48	0.008298		
	30	-7.70	-0.004413		
	40	14.48	0.008298		
	50	5.78	0.003312		
16QAM					
3.85	-30	12.03	0.006894	Within authorized band for Band 66	Pass
	-20	14.69	0.008418		
	-10	3.25	0.001862		
	0	-6.07	-0.003479		
	10	7.91	0.004533		
	20	-13.15	-0.007536		
	30	-14.86	-0.008516		
	40	-9.43	-0.005404		
	50	-16.02	-0.009181		
64QAM					
3.85	-30	12.27	0.007032	Within authorized band for Band 66	Pass
	-20	-17.48	-0.010017		
	-10	-14.16	-0.008115		
	0	-7.74	-0.004436		
	10	-10.44	-0.005983		
	20	-10.93	-0.006264		
	30	7.95	0.004556		
	40	10.33	0.005920		
	50	6.41	0.003673		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	3.81	0.002183	Within authorized band for Band 66	Pass
	3.85	4.81	0.002756		
	4.40	-4.02	-0.002304		
16QAM					
25	3.45	-12.04	-0.006900	Within authorized band for Band 66	Pass
	3.85	-11.53	-0.006607		
	4.40	-9.37	-0.005370		
64QAM					
25	3.45	-7.28	-0.004172	Within authorized band for Band 66	Pass
	3.85	7.62	0.004367		
	4.40	-5.41	-0.003100		
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
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

