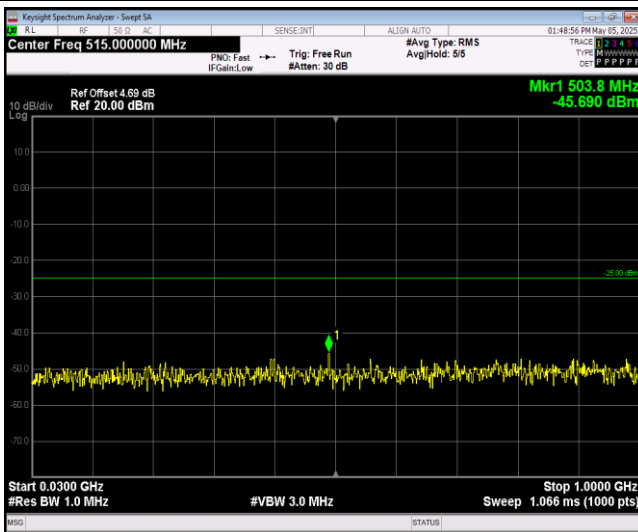


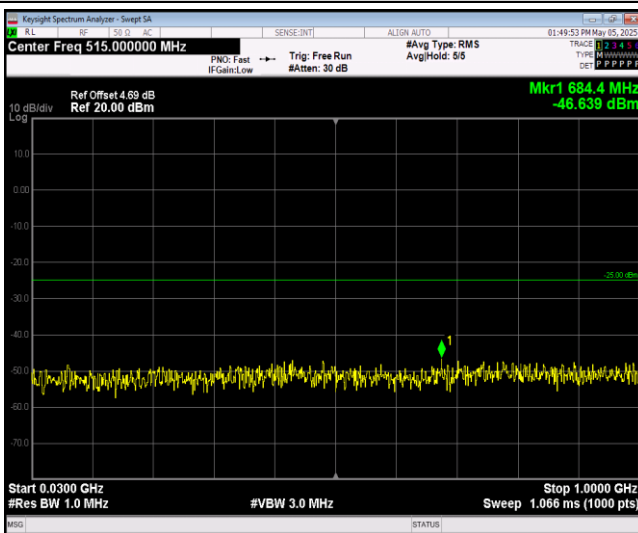
Band41-5MHz-64QAM-40640-1RB#0-Range1:30~1000MHz



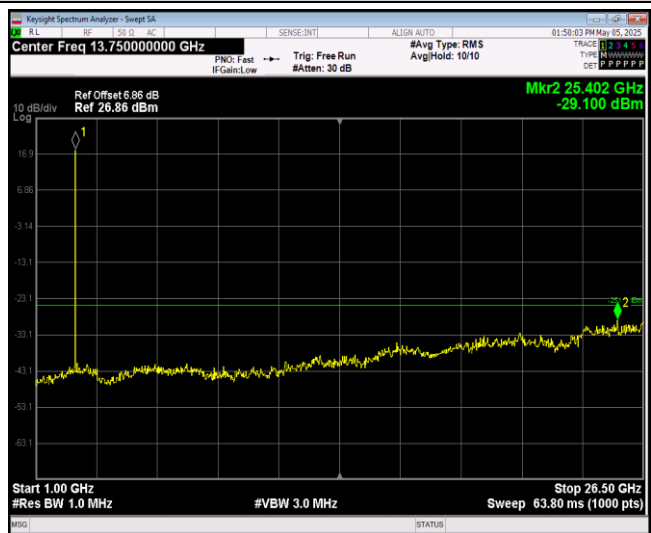
Band41-5MHz-64QAM-40640-1RB#0-Range2:1000~26500MHz



Band41-5MHz-64QAM-41215-1RB#0-Range1:30~1000MHz



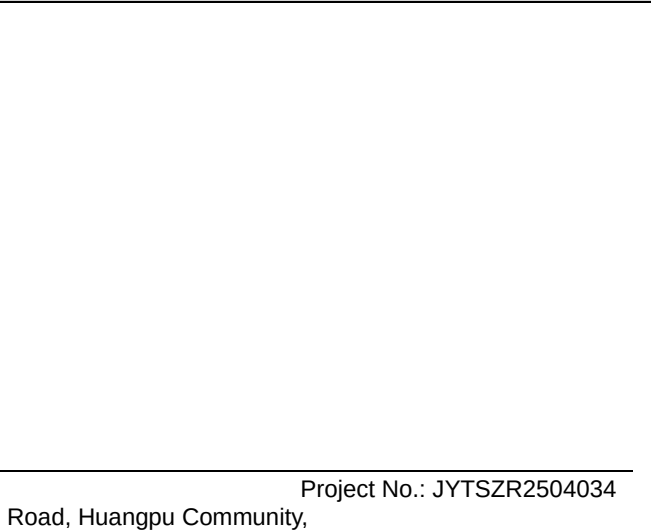
Band41-5MHz-64QAM-41215-1RB#0-Range2:1000~26500MHz

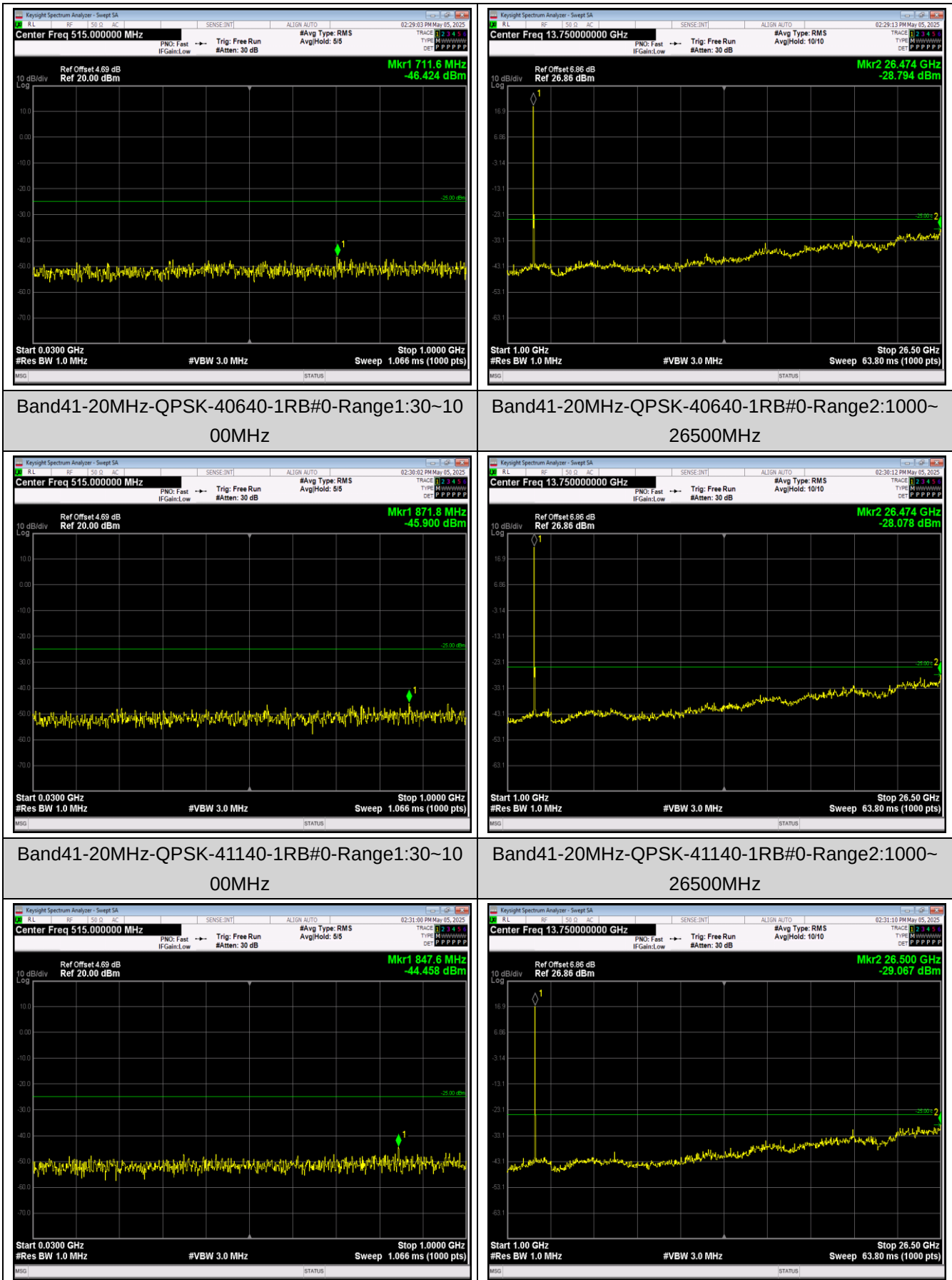


Band41-20MHz-QPSK-40140-1RB#0-Range1:30~1000MHz

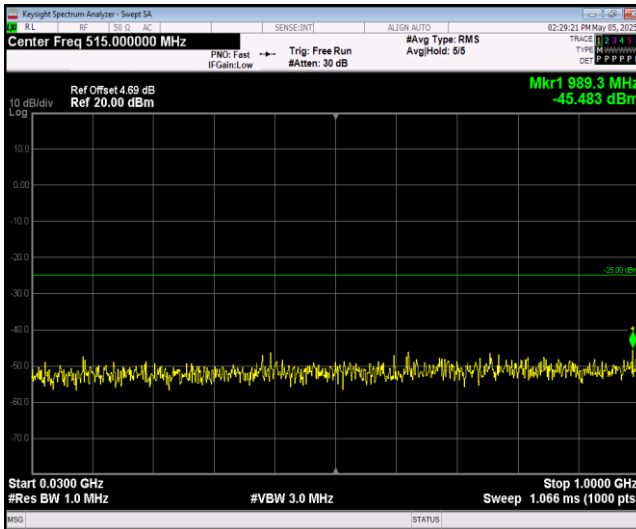


Band41-20MHz-QPSK-40140-1RB#0-Range2:1000~26500MHz





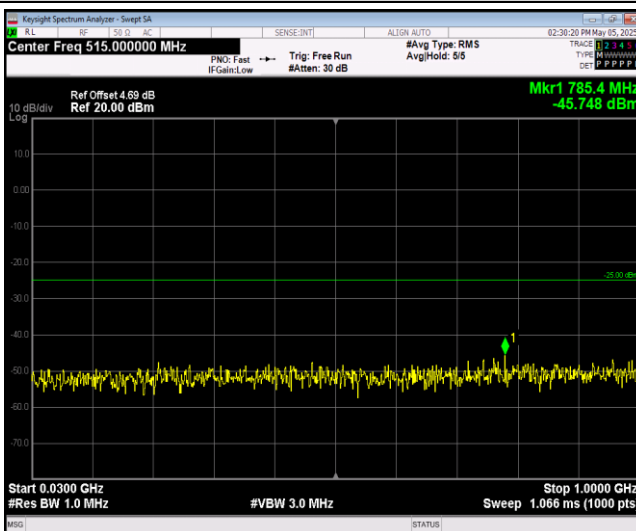
Band41-20MHz-16QAM-40140-1RB#0-Range1:30~1
000MHz



Band41-20MHz-16QAM-40140-1RB#0-Range2:1000
~26500MHz



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

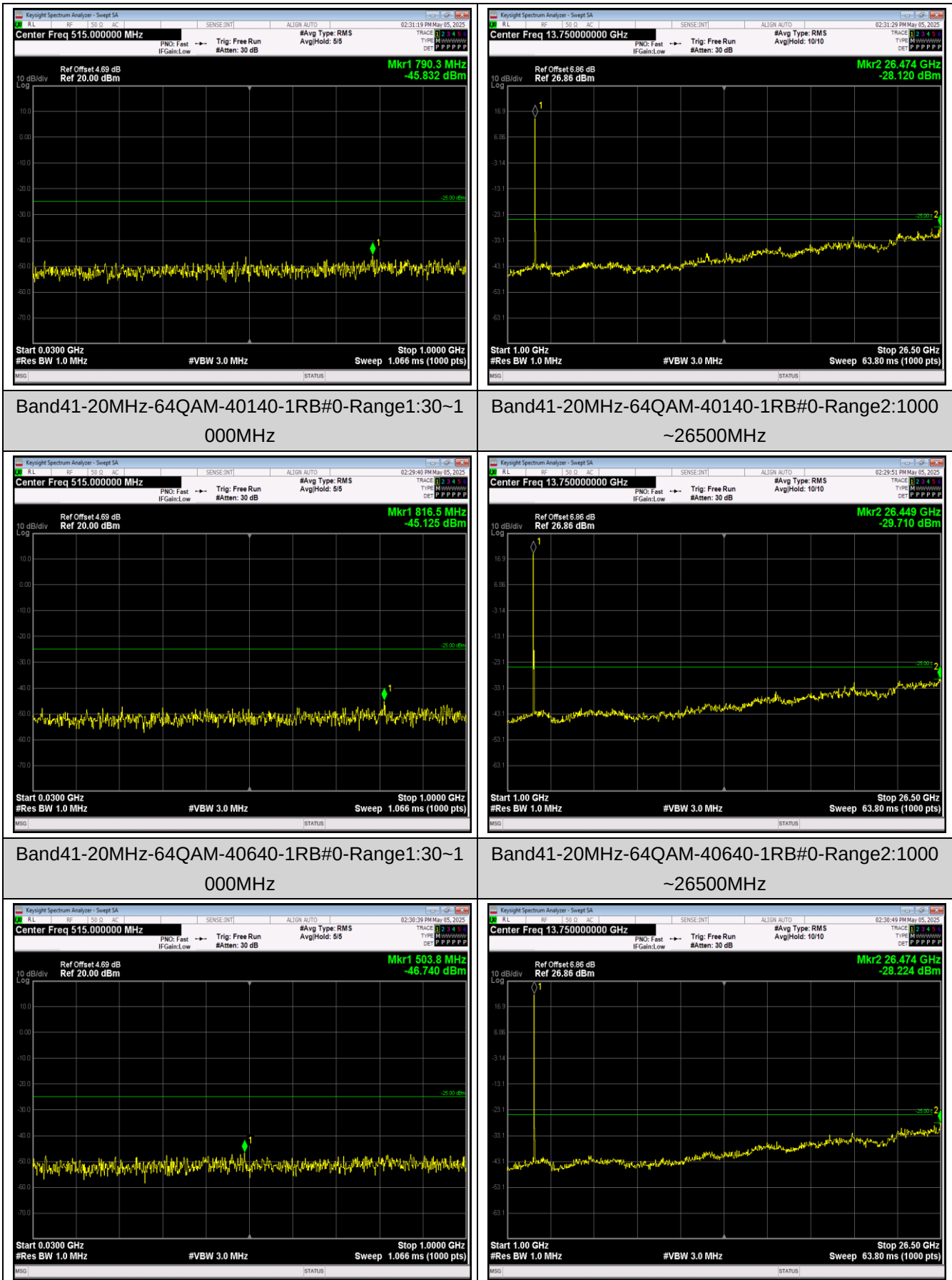


Band41-20MHz-16QAM-40640-1RB#0-Range2:1000
~26500MHz

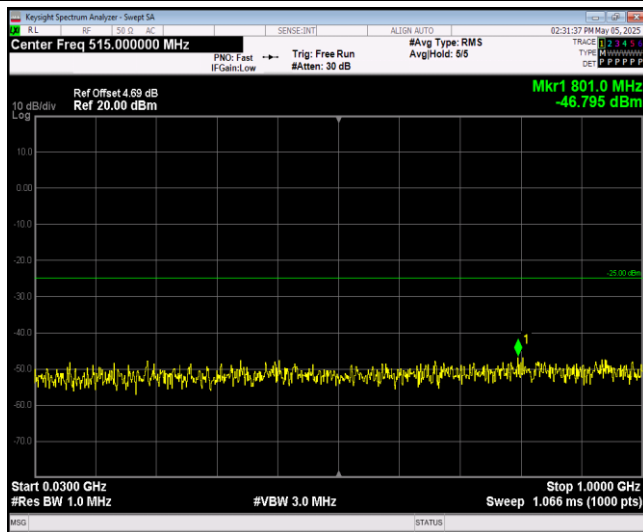


Band41-20MHz-16QAM-41140-1RB#0-Range1:30~1
000MHz

Band41-20MHz-16QAM-41140-1RB#0-Range2:1000
~26500MHz



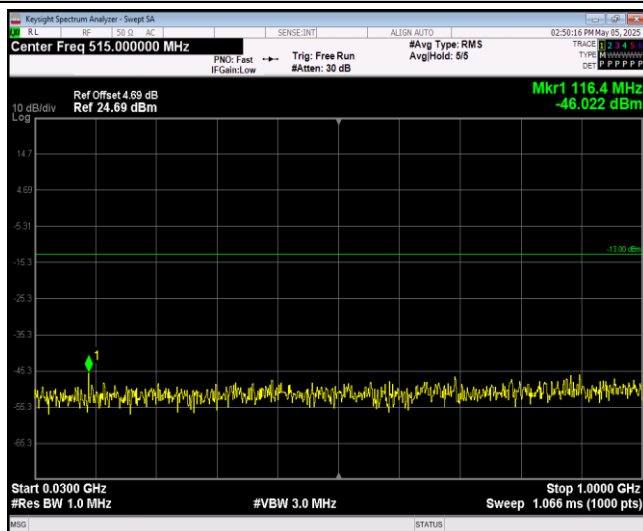
Band41-20MHz-64QAM-41140-1RB#0-Range1:30~1
000MHz



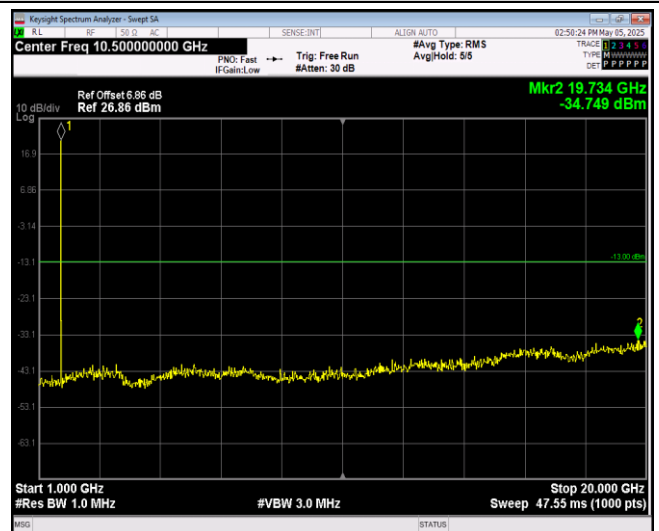
Band41-20MHz-64QAM-41140-1RB#0-Range2:1000
~26500MHz



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

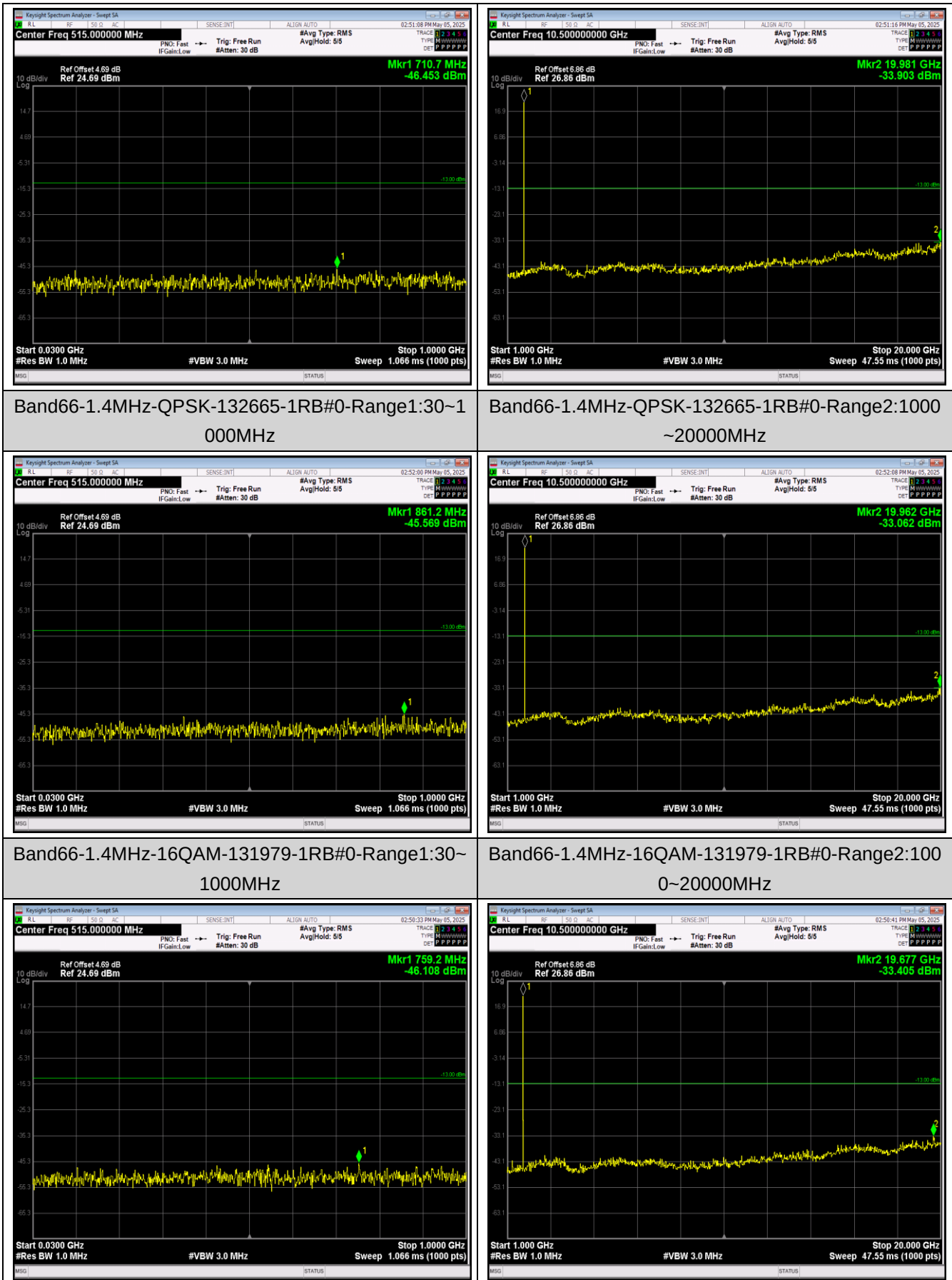


Band66-1.4MHz-QPSK-131979-1RB#0-Range2:1000
~20000MHz

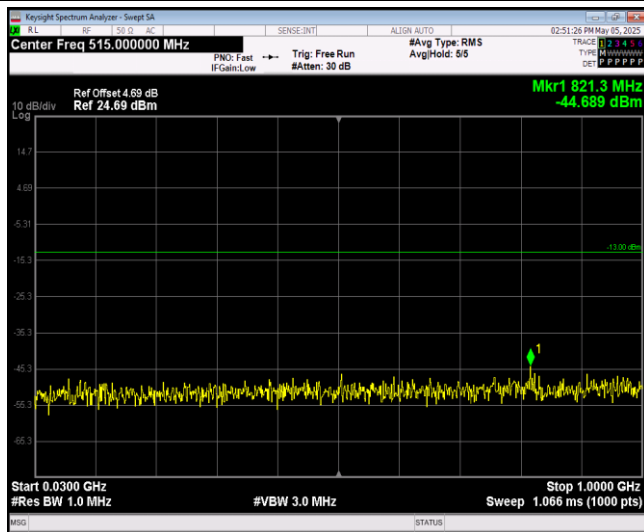


Band66-1.4MHz-QPSK-132322-1RB#0-Range1:30~1
000MHz

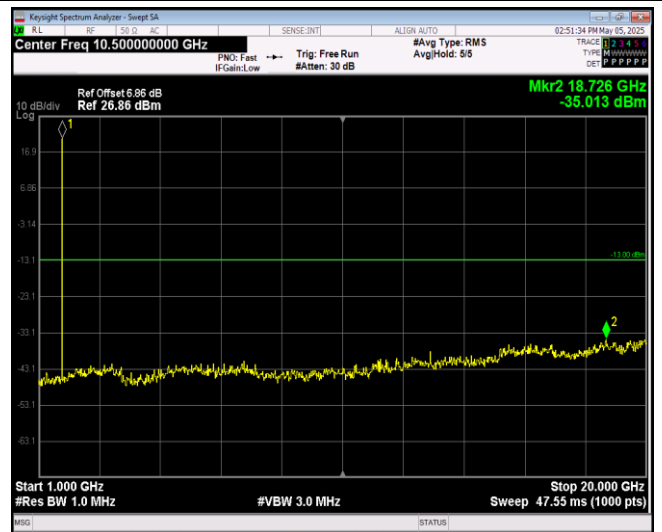
Band66-1.4MHz-QPSK-132322-1RB#0-Range2:1000
~20000MHz



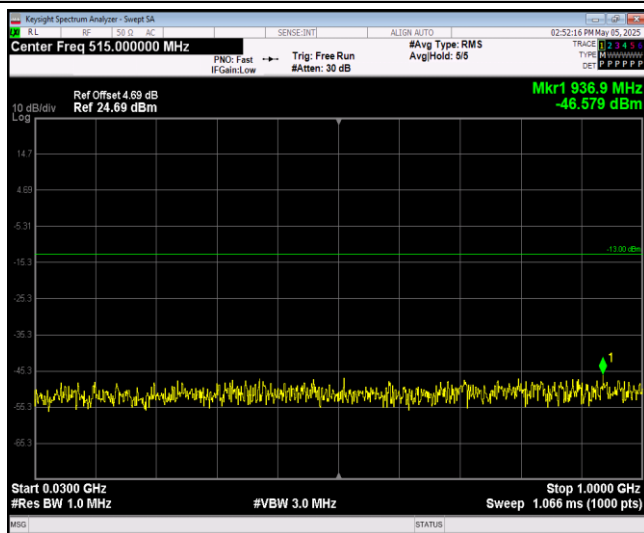
Band66-1.4MHz-16QAM-132322-1RB#0-Range1:30~1000MHz



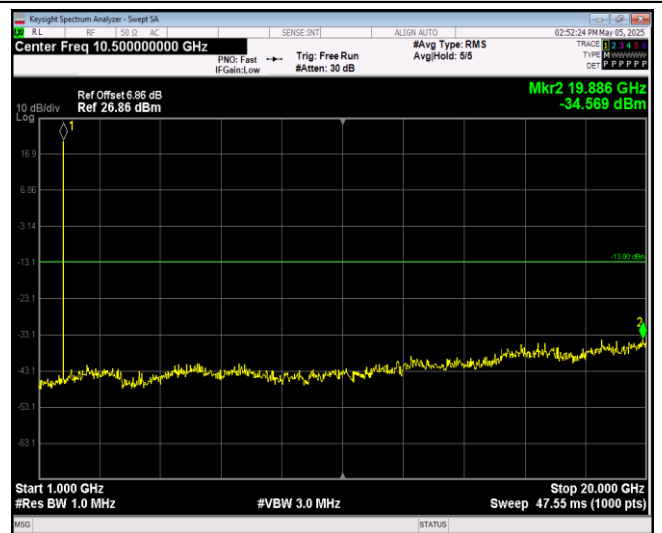
Band66-1.4MHz-16QAM-132322-1RB#0-Range2:1000~20000MHz



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



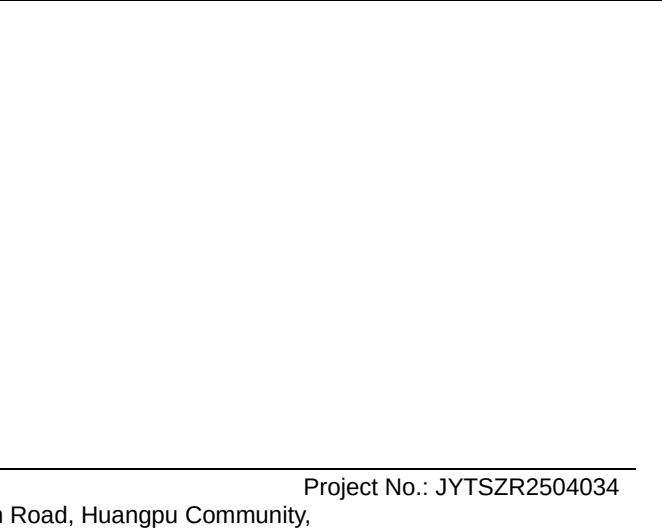
Band66-1.4MHz-16QAM-132665-1RB#0-Range2:1000~20000MHz

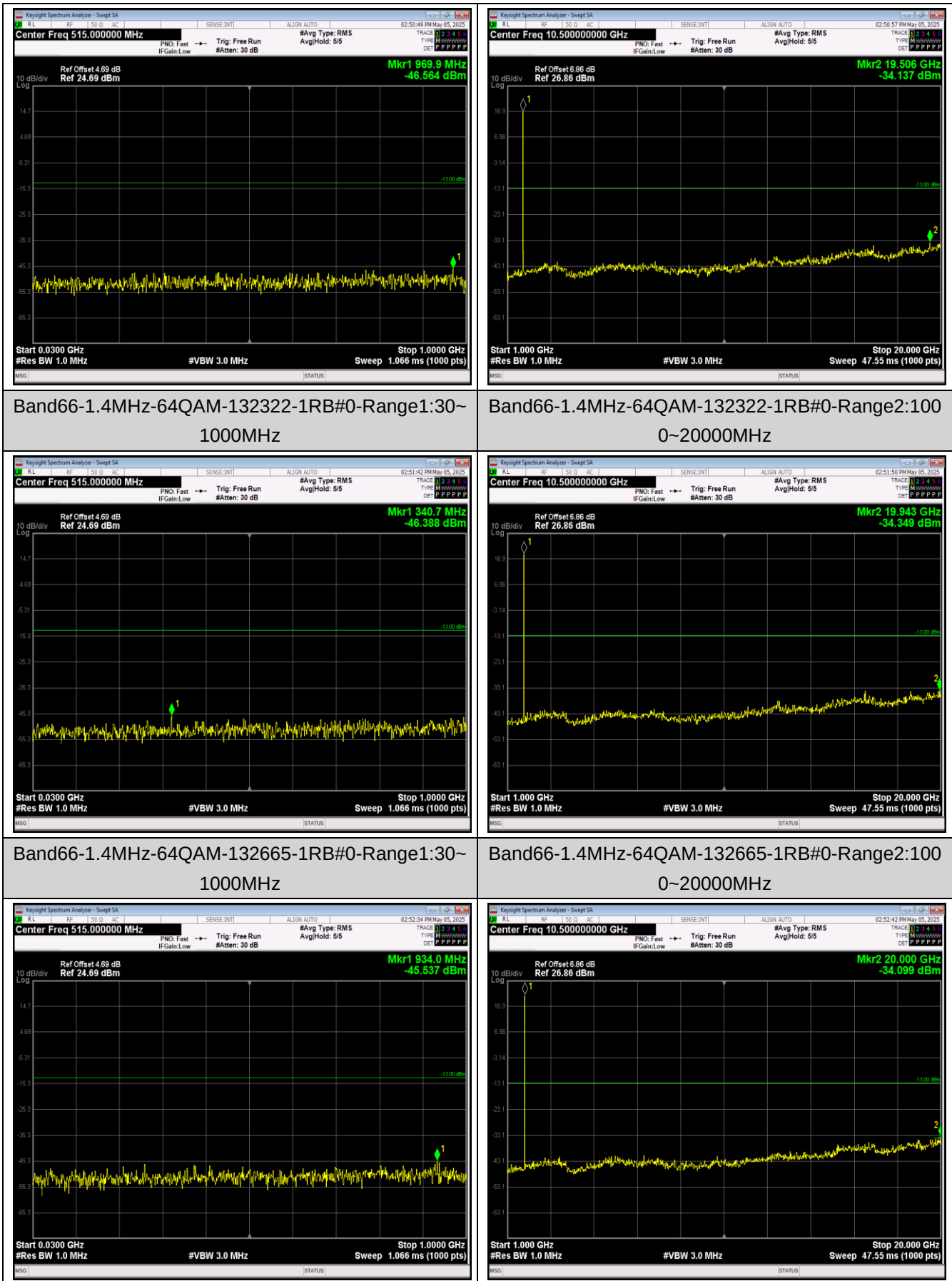


Band66-1.4MHz-64QAM-131979-1RB#0-Range1:30~1000MHz

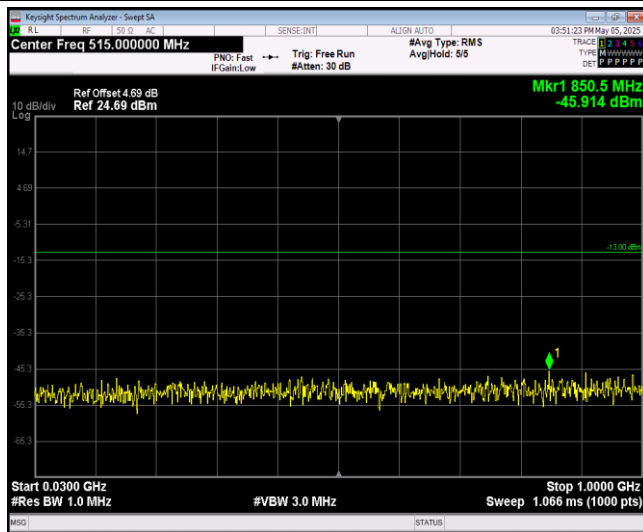


Band66-1.4MHz-64QAM-131979-1RB#0-Range2:1000~20000MHz





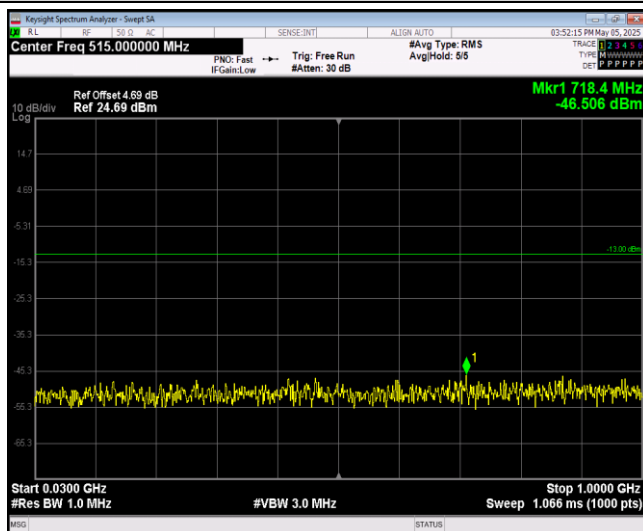
Band66-20MHz-QPSK-132072-1RB#0-Range1:30~1
000MHz



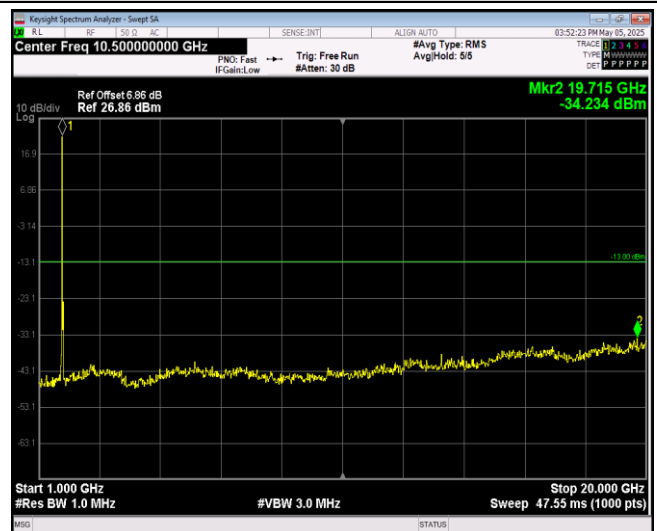
Band66-20MHz-QPSK-132072-1RB#0-Range2:1000
~20000MHz



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

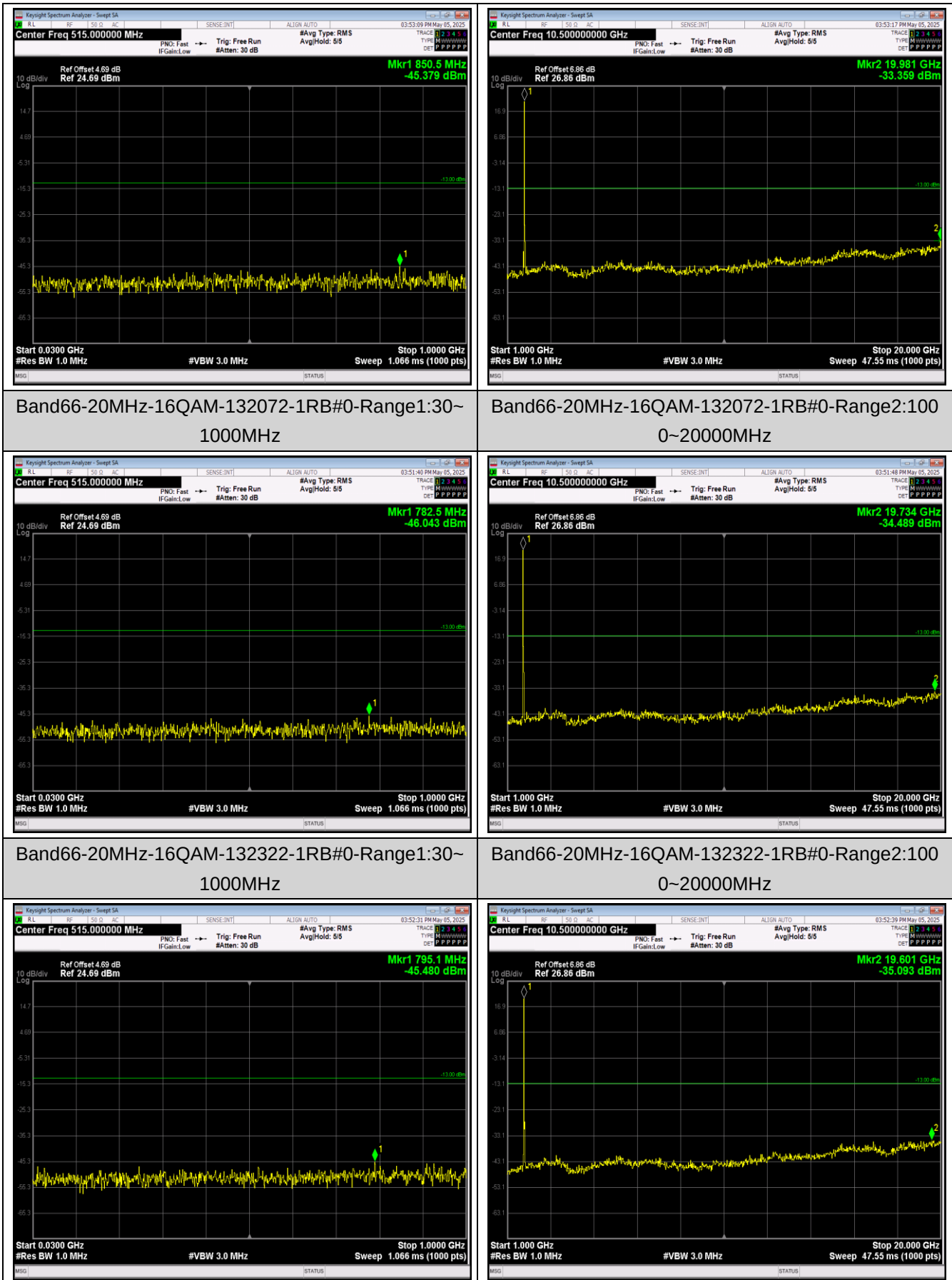


Band66-20MHz-QPSK-132322-1RB#0-Range2:1000
~20000MHz

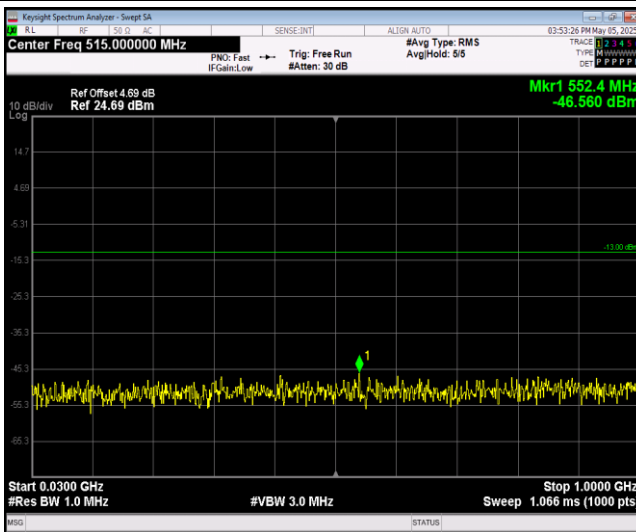


Band66-20MHz-QPSK-132572-1RB#0-Range1:30~1
000MHz

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



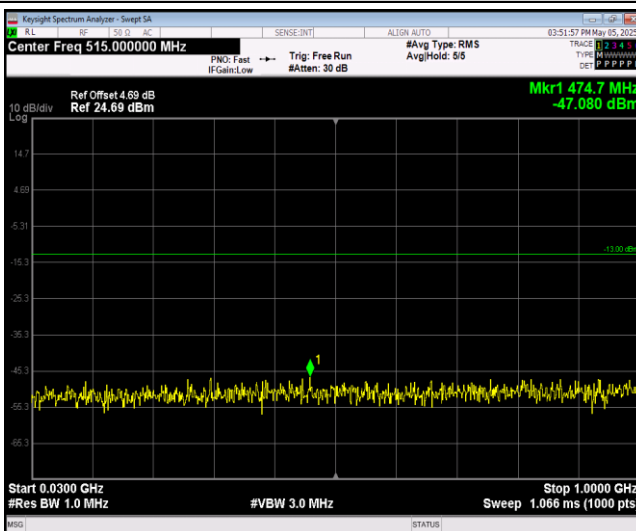
Band66-20MHz-16QAM-132572-1RB#0-Range1:30~
1000MHz



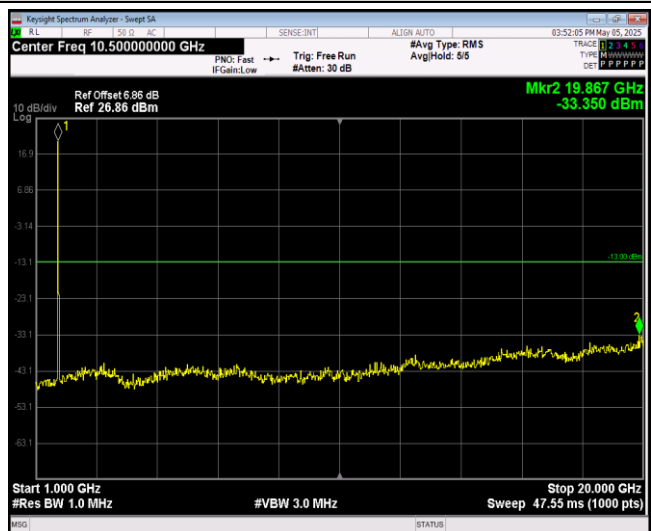
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0~20000MHz



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



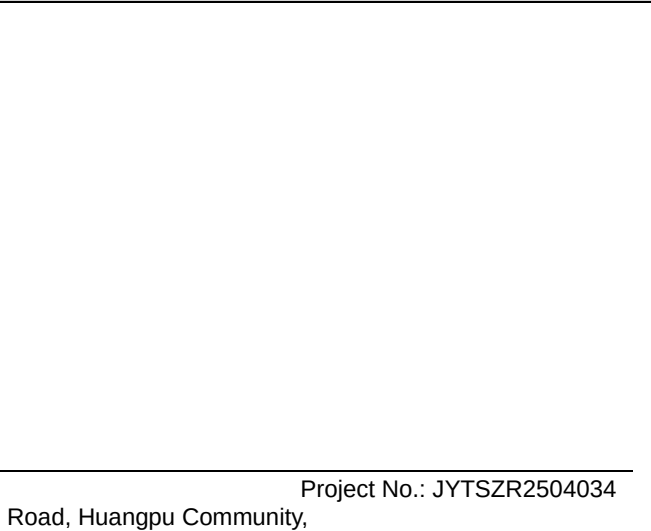
Band66-20MHz-64QAM-132072-1RB#0-Range2:100
0~20000MHz

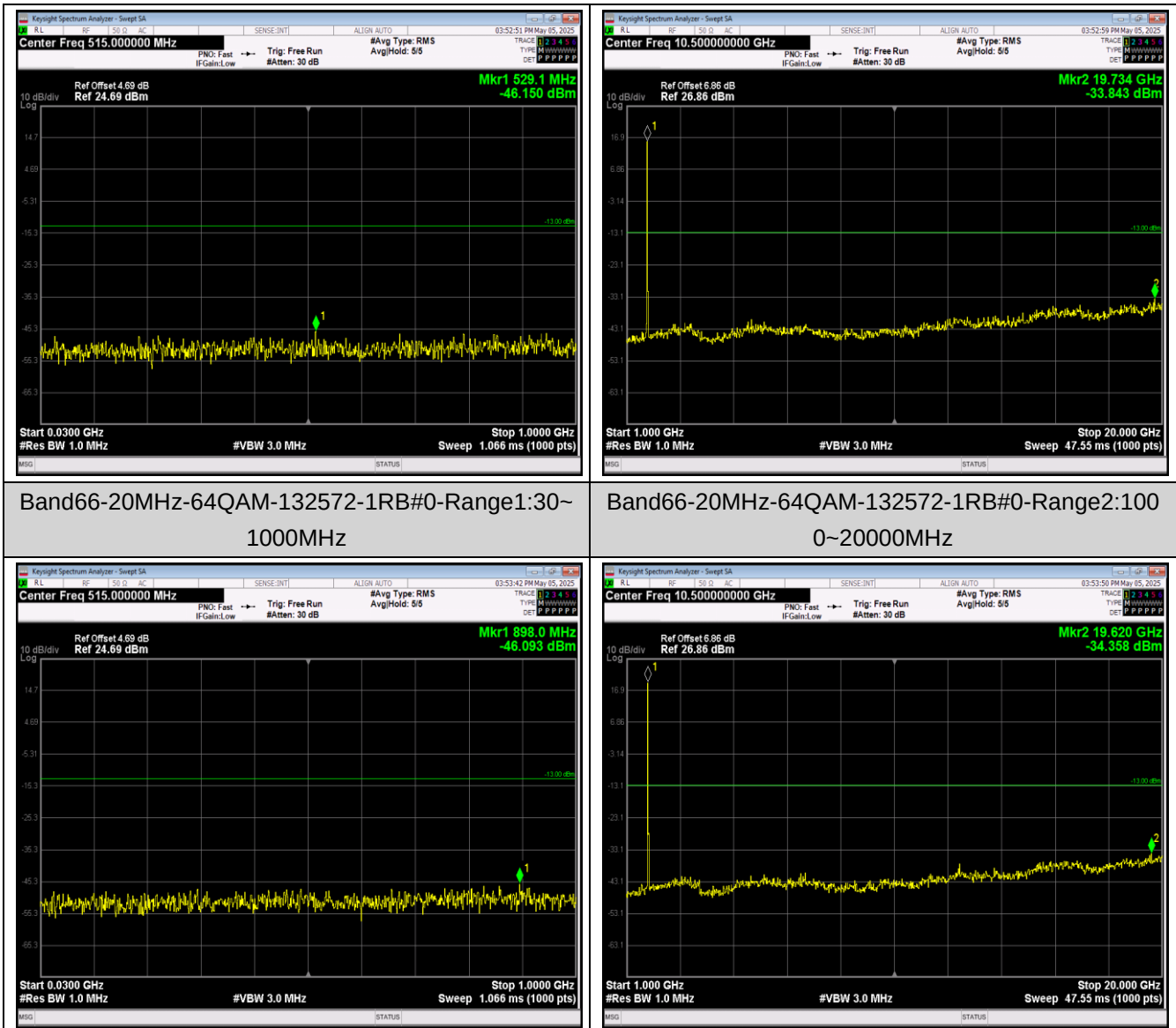


Band66-20MHz-64QAM-132322-1RB#0-Range1:30~
1000MHz



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	-16.55	-0.008803	Within authorized band for Band 2	Pass
	-20	-17.25	-0.009176		
	-10	-14.63	-0.007782		
	0	-18.77	-0.009984		
	10	-14.15	-0.007527		
	20	-22.10	-0.011755		
	30	-14.23	-0.007569		
	40	-15.75	-0.008378		
	50	-20.37	-0.010835		
16QAM					
3.92	-30	-7.93	-0.004218	Within authorized band for Band 2	Pass
	-20	-13.83	-0.007356		
	-10	39.87	0.021207		
	0	-12.56	-0.006681		
	10	5.06	0.002691		
	20	-18.55	-0.009867		
	30	8.28	0.004404		
	40	-14.73	-0.007835		
	50	-14.79	-0.007867		
64QAM					
3.92	-30	-12.77	-0.006793	Within authorized band for Band 2	Pass
	-20	-13.32	-0.007085		
	-10	-19.18	-0.010202		
	0	-14.72	-0.007830		
	10	-7.74	-0.004117		
	20	-15.28	-0.008128		
	30	-19.20	-0.010213		
	40	-16.89	-0.008984		
	50	-19.96	-0.010617		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-24.43	-0.012995	Within authorized band for Band 2	Pass
	3.92	-22.03	-0.011718		
	4.53	-14.38	-0.007649		
16QAM					
25	3.45	-20.38	-0.010840	Within authorized band for Band 2	Pass
	3.92	-19.13	-0.010176		
	4.53	-13.33	-0.007090		
64QAM					
25	3.45	-9.56	-0.005085	Within authorized band for Band 2	Pass
	3.92	-14.03	-0.007463		
	4.53	-14.75	-0.007846		
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	-6.51	-0.003758	Within authorized band for Band 4	Pass
	-20	4.78	0.002759		
	-10	-8.55	-0.004935		
	0	-9.51	-0.005489		
	10	7.93	0.004577		
	20	-7.28	-0.004202		
	30	-7.72	-0.004456		
	40	-6.05	-0.003492		
	50	-8.68	-0.005010		
16QAM					
3.92	-30	-5.32	-0.003071	Within authorized band for Band 4	Pass
	-20	-10.36	-0.005980		
	-10	-4.06	-0.002343		
	0	-11.10	-0.006407		
	10	-9.91	-0.005720		
	20	5.14	0.002967		
	30	-8.03	-0.004635		
	40	-5.74	-0.003313		
	50	-8.88	-0.005126		
64QAM					
3.92	-30	-4.02	-0.002320	Within authorized band for Band 4	Pass
	-20	5.48	0.003163		
	-10	-13.80	-0.007965		
	0	-8.45	-0.004877		
	10	4.22	0.002436		
	20	-5.87	-0.003388		
	30	-5.38	-0.003105		
	40	-7.61	-0.004392		
	50	-6.97	-0.004023		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-6.05	-0.003492	Within authorized band for Band 4	Pass
	3.92	-13.88	-0.008012		
	4.53	-7.94	-0.004583		
16QAM					
25	3.45	-4.78	-0.002759	Within authorized band for Band 4	Pass
	3.92	-9.37	-0.005408		
	4.53	-10.17	-0.005870		
64QAM					
25	3.45	-5.42	-0.003128	Within authorized band for Band 4	Pass
	3.92	-3.35	-0.001934		
	4.53	-8.65	-0.004993		
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	-9.10	-0.010879	±2.5	Pass
	-20	-10.06	-0.012026		
	-10	-8.96	-0.010711		
	0	-5.32	-0.006360		
	10	4.63	0.005535		
	20	-7.52	-0.008990		
	30	-4.08	-0.004877		
	40	4.16	0.004973		
	50	-10.41	-0.012445		
16QAM					
3.92	-30	-8.07	-0.009647	±2.5	Pass
	-20	-4.45	-0.005320		
	-10	-11.10	-0.013270		
	0	-8.77	-0.010484		
	10	-6.29	-0.007519		
	20	-8.08	-0.009659		
	30	-6.94	-0.008296		
	40	-3.71	-0.004435		
	50	-6.22	-0.007436		
64QAM					
3.92	-30	-6.71	-0.008022	±2.5	Pass
	-20	-5.14	-0.006145		
	-10	-5.06	-0.006049		
	0	-7.65	-0.009145		
	10	-8.10	-0.009683		
	20	-4.78	-0.005714		
	30	-8.10	-0.009683		
	40	-12.53	-0.014979		
	50	-10.07	-0.012038		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.90	-0.011835	±2.5	Pass
	3.92	-14.73	-0.017609		
	4.53	-7.54	-0.009014		
16QAM					
25	3.45	-6.98	-0.008344	±2.5	Pass
	3.92	-1.75	-0.002092		
	4.53	-7.52	-0.008990		
64QAM					
25	3.45	-8.64	-0.010329	±2.5	Pass
	3.92	-9.57	-0.011441		
	4.53	-7.25	-0.008667		
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	-12.62	-0.004978	Within authorized band for Band 7	Pass
	-20	-5.71	-0.002252		
	-10	4.85	0.001913		
	0	-10.26	-0.004047		
	10	-6.79	-0.002679		
	20	-14.35	-0.005661		
	30	-4.92	-0.001941		
	40	-11.12	-0.004387		
	50	-10.40	-0.004103		
16QAM					
3.92	-30	10.11	0.003988	Within authorized band for Band 7	Pass
	-20	-15.78	-0.006225		
	-10	-17.40	-0.006864		
	0	-11.76	-0.004639		
	10	-13.53	-0.005337		
	20	-5.88	-0.002320		
	30	-19.73	-0.007783		
	40	-5.14	-0.002028		
	50	-14.42	-0.005688		
64QAM					
3.92	-30	-9.96	-0.003929	Within authorized band for Band 7	Pass
	-20	-11.29	-0.004454		
	-10	-14.05	-0.005542		
	0	-15.55	-0.006134		
	10	-18.28	-0.007211		
	20	-8.70	-0.003432		
	30	-10.90	-0.004300		
	40	-10.67	-0.004209		
	50	-10.20	-0.004024		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-12.30	-0.004852	Within authorized band for Band 7	Pass
	3.92	-22.40	-0.008836		
	4.53	-9.83	-0.003878		
16QAM					
25	3.45	-13.20	-0.005207	Within authorized band for Band 7	Pass
	3.92	-9.84	-0.003882		
	4.53	6.17	0.002434		
64QAM					
25	3.45	-14.56	-0.005744	Within authorized band for Band 7	Pass
	3.92	-12.47	-0.004919		
	4.53	-5.32	-0.002099		
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 (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.92	-30	-11.10	-0.015689	Within authorized band for Band 12	Pass
	-20	-8.23	-0.011633		
	-10	-8.40	-0.011873		
	0	-8.78	-0.012410		
	10	-9.74	-0.013767		
	20	-12.23	-0.017286		
	30	-9.40	-0.013286		
	40	-10.09	-0.014261		
	50	-6.79	-0.009597		
16QAM					
3.92	-30	-11.56	-0.016339	Within authorized band for Band 12	Pass
	-20	-13.10	-0.018516		
	-10	3.81	0.005385		
	0	-9.01	-0.012735		
	10	-6.92	-0.009781		
	20	-6.71	-0.009484		
	30	-10.66	-0.015067		
	40	-9.61	-0.013583		
	50	-3.76	-0.005314		
64QAM					
3.92	-30	-6.90	-0.009753	Within authorized band for Band 12	Pass
	-20	-7.54	-0.010657		
	-10	-11.37	-0.016071		
	0	-7.84	-0.011081		
	10	-9.54	-0.013484		
	20	-4.98	-0.007039		
	30	-7.47	-0.010558		
	40	-9.50	-0.013428		
	50	-3.15	-0.004452		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-5.69	-0.008042	Within authorized band for Band 12	Pass
	3.92	-11.44	-0.016170		
	4.53	-8.35	-0.011802		
16QAM					
25	3.45	-4.86	-0.006869	Within authorized band for Band 12	Pass
	3.92	-11.79	-0.016664		
	4.53	-7.31	-0.010332		
64QAM					
25	3.45	-12.39	-0.017512	Within authorized band for Band 12	Pass
	3.92	-2.99	-0.004226		
	4.53	-7.07	-0.009993		
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	-12.47	-0.015946	Within authorized band for Band 13	Pass
	-20	-12.97	-0.016586		
	-10	-9.46	-0.012097		
	0	-8.03	-0.010269		
	10	-11.36	-0.014527		
	20	-4.43	-0.005665		
	30	-9.60	-0.012276		
	40	-13.48	-0.017238		
	50	-4.33	-0.005537		
16QAM					
3.92	-30	-10.33	-0.013210	Within authorized band for Band 13	Pass
	-20	-9.88	-0.012634		
	-10	-5.88	-0.007519		
	0	-10.17	-0.013005		
	10	-10.13	-0.012954		
	20	-9.27	-0.011854		
	30	-8.44	-0.010793		
	40	-9.27	-0.011854		
	50	-11.49	-0.014693		
64QAM					
3.92	-30	-9.94	-0.012711	Within authorized band for Band 13	Pass
	-20	-6.67	-0.008529		
	-10	-13.82	-0.017673		
	0	-9.11	-0.011650		
	10	-2.22	-0.002839		
	20	-8.44	-0.010793		
	30	-9.16	-0.011714		
	40	-8.18	-0.010460		
	50	-8.98	-0.011483		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-10.71	-0.013696	Within authorized band for Band 13	Pass
	3.92	-11.69	-0.014949		
	4.53	-12.83	-0.016407		
16QAM					
25	3.45	-12.67	-0.016202	Within authorized band for Band 13	Pass
	3.92	-12.90	-0.016496		
	4.53	-9.57	-0.012238		
64QAM					
25	3.45	-12.57	-0.016074	Within authorized band for Band 13	Pass
	3.92	-5.68	-0.007263		
	4.53	-12.04	-0.015396		
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	-13.59	-0.019141	Within authorized band for Band 17	Pass
	-20	-7.85	-0.011056		
	-10	-16.87	-0.023761		
	0	-7.20	-0.010141		
	10	-10.51	-0.014803		
	20	-14.16	-0.019944		
	30	-6.92	-0.009746		
	40	-12.10	-0.017042		
	50	-7.91	-0.011141		
16QAM					
3.92	-30	-6.68	-0.009408	Within authorized band for Band 17	Pass
	-20	-5.51	-0.007761		
	-10	-7.50	-0.010563		
	0	-8.18	-0.011521		
	10	-6.98	-0.009831		
	20	-11.46	-0.016141		
	30	-7.67	-0.010803		
	40	-10.01	-0.014099		
	50	-9.51	-0.013394		
64QAM					
3.92	-30	-7.98	-0.011239	Within authorized band for Band 17	Pass
	-20	-10.20	-0.014366		
	-10	-10.99	-0.015479		
	0	-9.67	-0.013620		
	10	-6.38	-0.008986		
	20	-10.83	-0.015254		
	30	-6.65	-0.009366		
	40	-7.20	-0.010141		
	50	-4.63	-0.006521		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-10.89	-0.015338	Within authorized band for Band 17	Pass
	3.92	-9.84	-0.013859		
	4.53	-10.34	-0.014563		
16QAM					
25	3.45	-8.31	-0.011704	Within authorized band for Band 17	Pass
	3.92	-7.91	-0.011141		
	4.53	-5.98	-0.008423		
64QAM					
25	3.45	-10.70	-0.015070	Within authorized band for Band 17	Pass
	3.92	-6.47	-0.009113		
	4.53	-10.40	-0.014648		
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	-6.28	-0.007668	Within authorized band for Band 26	Pass
	-20	-10.34	-0.012625		
	-10	-10.70	-0.013065		
	0	-6.44	-0.007863		
	10	-6.05	-0.007387		
	20	-2.76	-0.003370		
	30	-5.49	-0.006703		
	40	-10.01	-0.012222		
	50	-9.71	-0.011856		
16QAM					
3.92	-30	-11.03	-0.013468	Within authorized band for Band 26	Pass
	-20	-5.98	-0.007302		
	-10	-9.73	-0.011880		
	0	-9.40	-0.011477		
	10	-11.94	-0.014579		
	20	-9.56	-0.011673		
	30	-10.84	-0.013236		
	40	-12.70	-0.015507		
	50	-10.36	-0.012650		
64QAM					
3.92	-30	-5.97	-0.007289	Within authorized band for Band 26	Pass
	-20	-5.21	-0.006361		
	-10	-4.05	-0.004945		
	0	-9.11	-0.011123		
	10	-5.14	-0.006276		
	20	-3.42	-0.004176		
	30	-9.26	-0.011306		
	40	-7.41	-0.009048		
	50	-7.30	-0.008913		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-10.44	-0.012747	Within authorized band for Band 26	Pass
	3.92	-9.37	-0.011441		
	4.53	-7.32	-0.008938		
16QAM					
25	3.45	-7.94	-0.009695	Within authorized band for Band 26	Pass
	3.92	-13.10	-0.015995		
	4.53	-8.94	-0.010916		
64QAM					
25	3.45	-8.97	-0.010952	Within authorized band for Band 26	Pass
	3.92	-7.24	-0.008840		
	4.53	-3.60	-0.004396		
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	-7.88	-0.009420	Within authorized band for Band 26	Pass
	-20	-11.46	-0.013700		
	-10	-12.07	-0.014429		
	0	-5.61	-0.006707		
	10	-7.87	-0.009408		
	20	-9.96	-0.011907		
	30	-4.13	-0.004937		
	40	-8.73	-0.010436		
	50	-7.68	-0.009181		
16QAM					
3.92	-30	-10.79	-0.012899	Within authorized band for Band 26	Pass
	-20	-6.59	-0.007878		
	-10	-4.69	-0.005607		
	0	-6.45	-0.007711		
	10	-7.65	-0.009145		
	20	-7.71	-0.009217		
	30	-7.07	-0.008452		
	40	-8.18	-0.009779		
	50	-5.75	-0.006874		
64QAM					
3.92	-30	-8.83	-0.010556	Within authorized band for Band 26	Pass
	-20	-6.18	-0.007388		
	-10	-8.74	-0.010448		
	0	-11.09	-0.013258		
	10	-8.71	-0.010412		
	20	-4.71	-0.005631		
	30	-9.03	-0.010795		
	40	-6.82	-0.008153		
	50	-8.18	-0.009779		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-6.92	-0.008273	Within authorized band for Band 26	Pass
	3.92	-11.76	-0.014059		
	4.53	-11.06	-0.013222		
16QAM					
25	3.45	-11.46	-0.013700	Within authorized band for Band 26	Pass
	3.92	-9.77	-0.011680		
	4.53	-3.19	-0.003814		
64QAM					
25	3.45	-13.36	-0.015971	Within authorized band for Band 26	Pass
	3.92	-10.37	-0.012397		
	4.53	-7.45	-0.008906		
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					
3.92	-30	-15.12	-0.005827	Within authorized band for Band 38	Pass
	-20	-13.52	-0.005210		
	-10	-7.07	-0.002724		
	0	-11.63	-0.004482		
	10	-8.51	-0.003279		
	20	-9.98	-0.003846		
	30	-10.16	-0.003915		
	40	-11.96	-0.004609		
	50	-7.08	-0.002728		
16QAM					
3.92	-30	-17.45	-0.006724	Within authorized band for Band 38	Pass
	-20	-13.30	-0.005125		
	-10	-11.22	-0.004324		
	0	-17.65	-0.006802		
	10	-14.05	-0.005414		
	20	-7.88	-0.003037		
	30	-12.35	-0.004759		
	40	-11.77	-0.004536		
	50	-13.03	-0.005021		
64QAM					
3.92	-30	-15.76	-0.006073	Within authorized band for Band 38	Pass
	-20	-7.65	-0.002948		
	-10	-12.86	-0.004956		
	0	-15.38	-0.005927		
	10	-11.94	-0.004601		
	20	-12.97	-0.004998		
	30	-13.70	-0.005279		
	40	-11.77	-0.004536		
	50	-13.48	-0.005195		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-8.93	-0.003441	Within authorized band for Band 38	Pass
	3.92	-15.79	-0.006085		
	4.53	-12.47	-0.004805		
16QAM					
25	3.45	-11.77	-0.004536	Within authorized band for Band 38	Pass
	3.92	-11.80	-0.004547		
	4.53	-13.59	-0.005237		
64QAM					
25	3.45	-6.29	-0.002424	Within authorized band for Band 38	Pass
	3.92	-11.96	-0.004609		
	4.53	-12.03	-0.004636		
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	-6.24	-0.002405	Within authorized band for Band 41	Pass
	-20	-6.81	-0.002624		
	-10	-9.00	-0.003468		
	0	-11.64	-0.004486		
	10	-10.30	-0.003969		
	20	-4.46	-0.001719		
	30	-4.52	-0.001742		
	40	-10.87	-0.004189		
	50	-10.17	-0.003919		
16QAM					
3.92	-30	-6.41	-0.002470	Within authorized band for Band 41	Pass
	-20	-8.35	-0.003218		
	-10	-9.17	-0.003534		
	0	-9.83	-0.003788		
	10	-21.01	-0.008096		
	20	-10.07	-0.003881		
	30	-18.05	-0.006956		
	40	-11.76	-0.004532		
	50	-7.35	-0.002832		
64QAM					
3.92	-30	-6.65	-0.002563	Within authorized band for Band 41	Pass
	-20	-11.12	-0.004285		
	-10	-8.38	-0.003229		
	0	-5.49	-0.002116		
	10	-10.93	-0.004212		
	20	-7.41	-0.002855		
	30	-13.22	-0.005094		
	40	-13.75	-0.005299		
	50	-10.79	-0.004158		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.81	-0.003780	Within authorized band for Band 41	Pass
	3.92	-33.87	-0.013052		
	4.53	-7.93	-0.003056		
16QAM					
25	3.45	-10.47	-0.004035	Within authorized band for Band41	Pass
	3.92	-8.75	-0.003372		
	4.53	-21.27	-0.008197		
64QAM					
25	3.45	-13.43	-0.005175	Within authorized band for Band41	Pass
	3.92	-5.44	-0.002096		
	4.53	-12.90	-0.004971		
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	-11.92	-0.006831	Within authorized band for Band 66	Pass
	-20	-10.31	-0.005908		
	-10	-12.87	-0.007375		
	0	-8.85	-0.005072		
	10	-12.76	-0.007312		
	20	-3.15	-0.001805		
	30	-11.10	-0.006361		
	40	-8.90	-0.005100		
	50	-14.23	-0.008155		
16QAM					
3.92	-30	-11.43	-0.006550	Within authorized band for Band 66	Pass
	-20	-7.72	-0.004424		
	-10	-10.03	-0.005748		
	0	-10.09	-0.005782		
	10	-11.33	-0.006493		
	20	5.14	0.002946		
	30	-10.84	-0.006212		
	40	-10.43	-0.005977		
	50	-12.19	-0.006986		
64QAM					
3.92	-30	7.98	0.004573	Within authorized band for Band 66	Pass
	-20	-11.76	-0.006739		
	-10	-9.16	-0.005249		
	0	-6.62	-0.003794		
	10	-2.27	-0.001301		
	20	-10.04	-0.005754		
	30	-6.18	-0.003542		
	40	3.52	0.002017		
	50	9.08	0.005203		

Voltage					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	3.45	-9.33	-0.005347	Within authorized band for Band 66	Pass
	3.92	-14.02	-0.008034		
	4.53	-9.24	-0.005295		
16QAM					
25	3.45	-11.89	-0.006814	Within authorized band for Band 66	Pass
	3.92	-6.59	-0.003777		
	4.53	-9.77	-0.005599		
64QAM					
25	3.45	-12.65	-0.007249	Within authorized band for Band 66	Pass
	3.92	-7.24	-0.004149		
	4.53	-12.45	-0.007135		
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

