

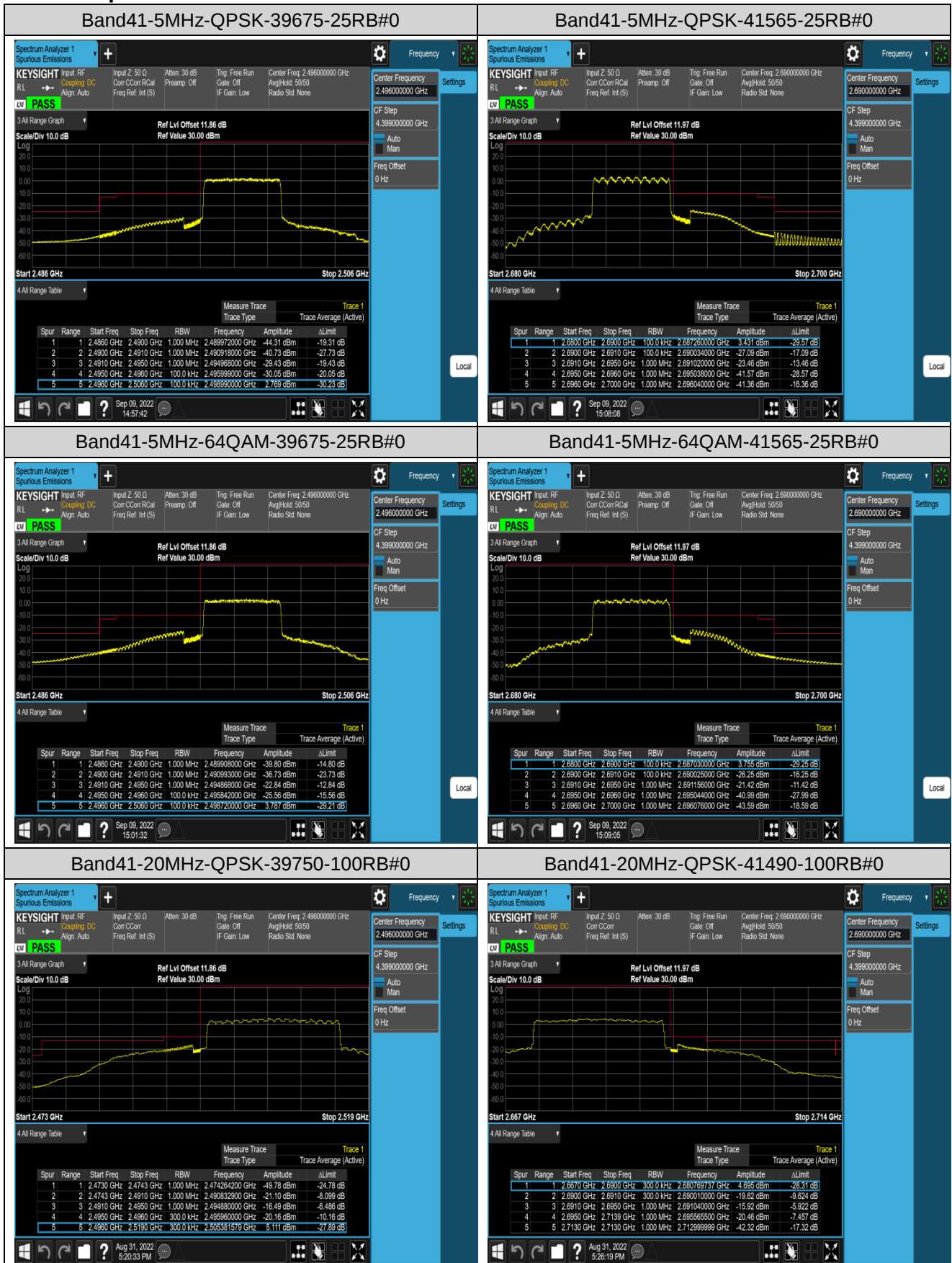
Appendix D: Band Edge For ANT3

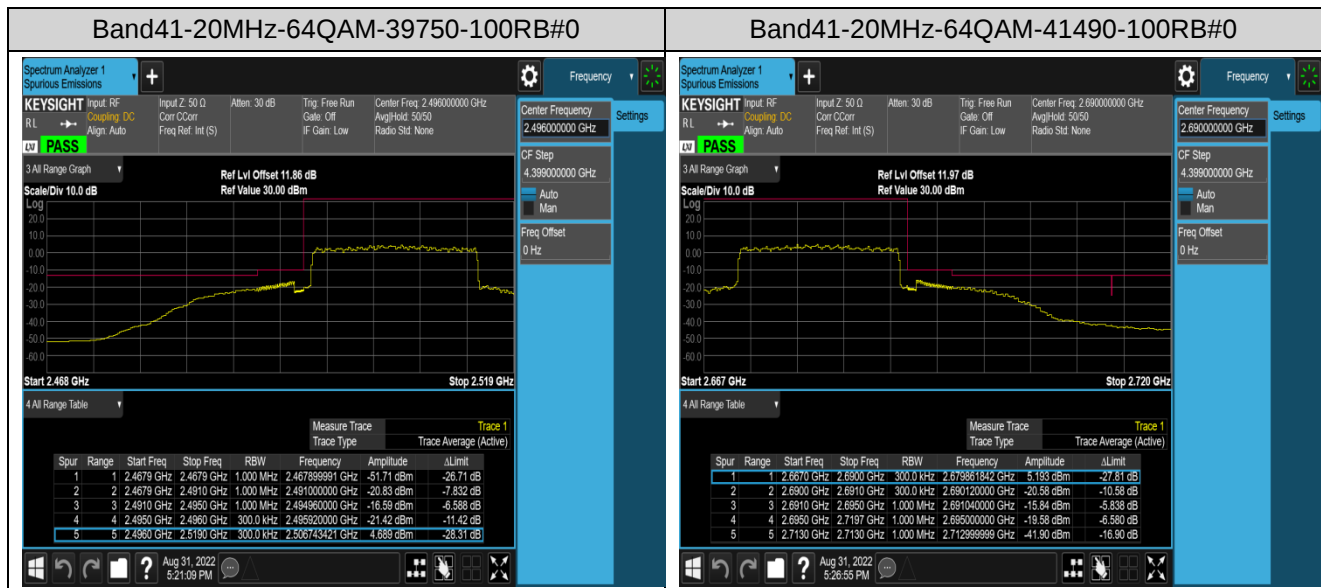
Test Result (worst case)

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	-44.31,-40.73,-29.43,-30.05	PASS
Band41	5MHz	QPSK	41565	25RB#0	-27.09,-23.46,-41.57,-41.36	PASS
Band41	5MHz	64QAM	39675	25RB#0	-39.80,-36.73,-22.84,-25.56	PASS
Band41	5MHz	64QAM	41565	25RB#0	-26.25,-21.42,-40.99,-43.59	PASS
Band41	20MHz	QPSK	39750	100RB#0	-49.78,-21.10,-16.49,-20.16	PASS
Band41	20MHz	QPSK	41490	100RB#0	-19.62,-15.92,-20.46,-42.32	PASS
Band41	20MHz	64QAM	39750	100RB#0	-51.71,-20.83,-16.59,-21.42	PASS
Band41	20MHz	64QAM	41490	100RB#0	-20.58,-15.84,-19.58,-41.90	PASS

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

Test Graphs





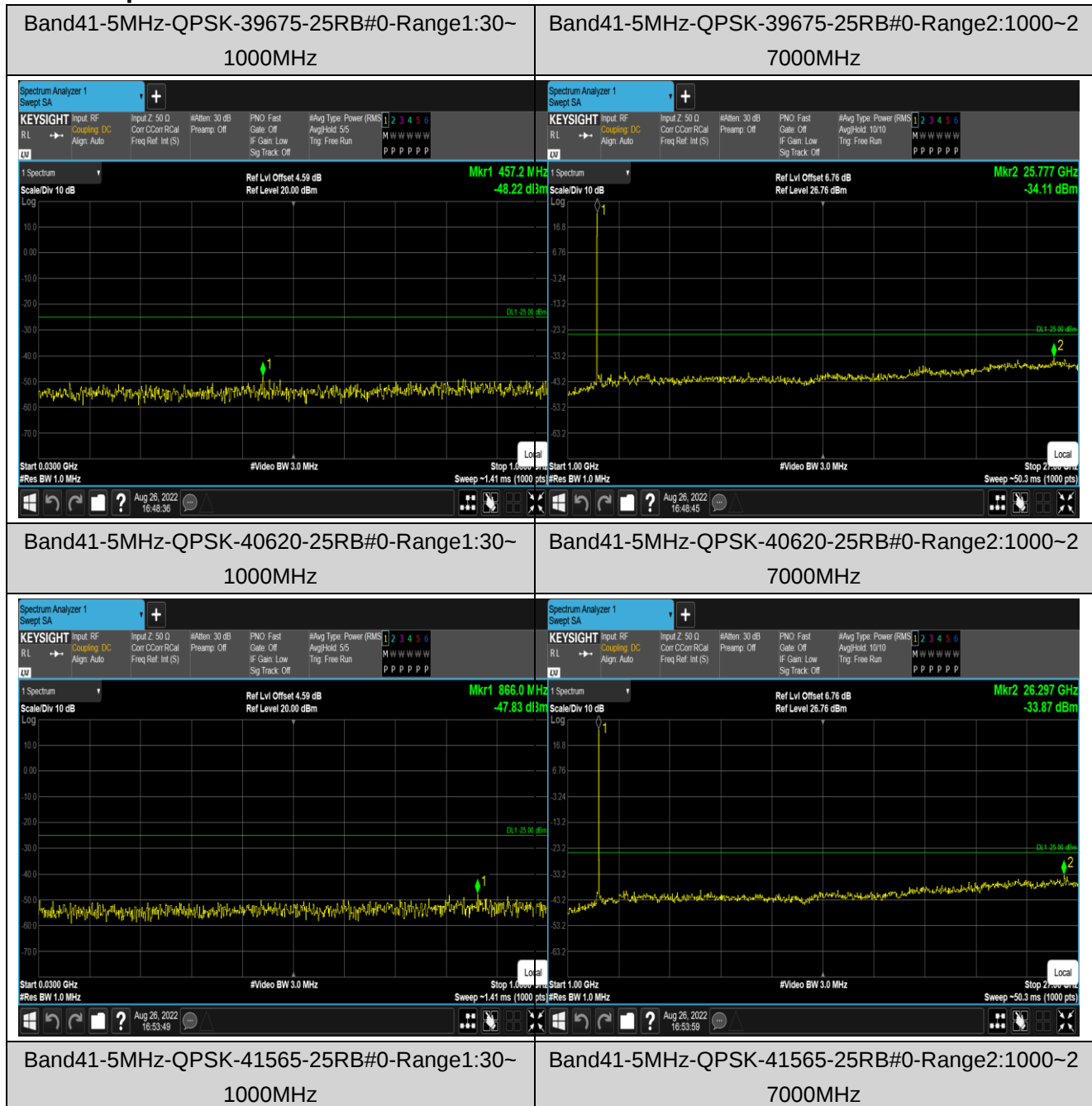
Appendix E: Conducted Spurious Emission For ANT1

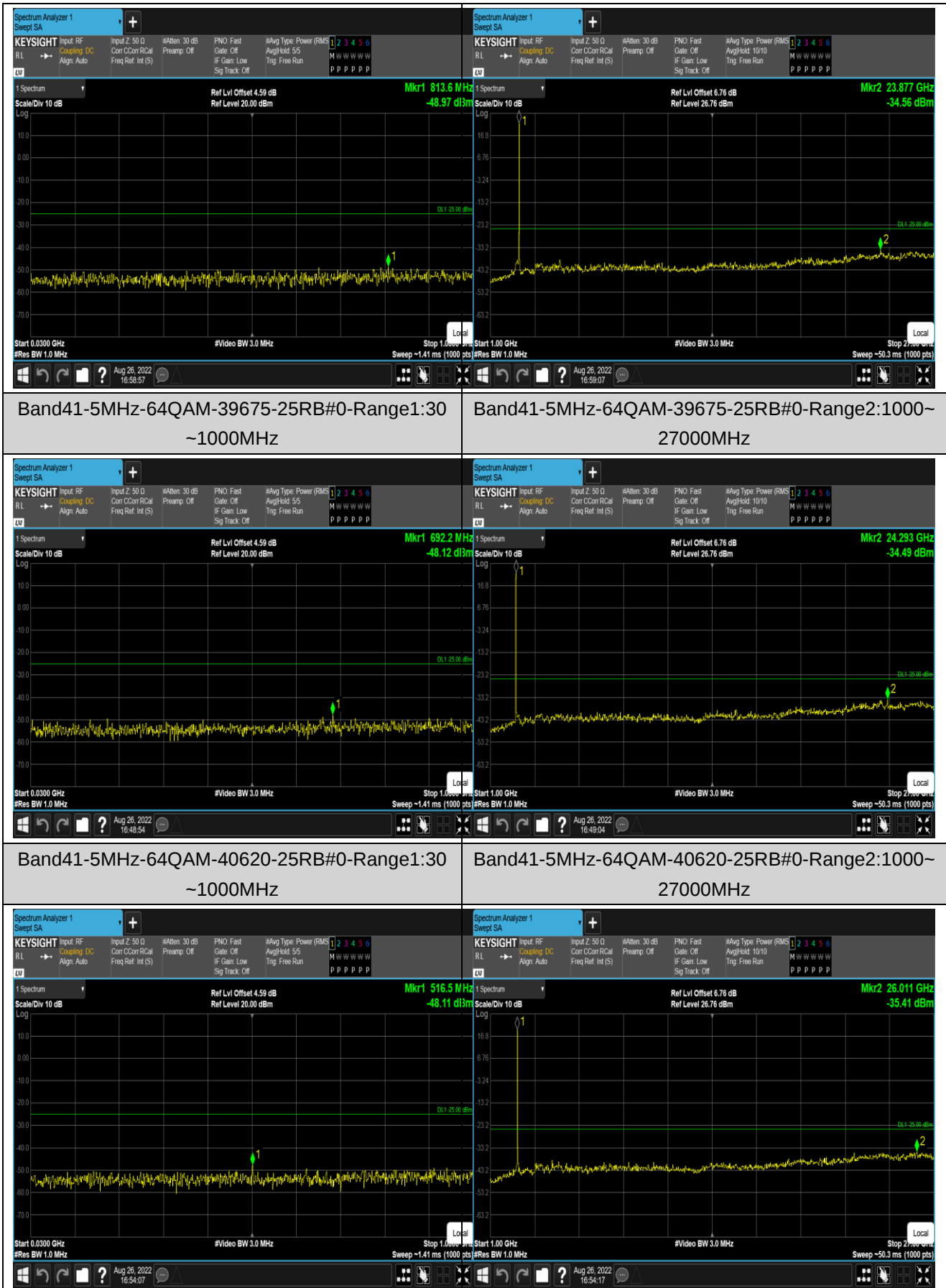
Test Result (worst case)

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	Range1:30~1000MHz	-48.22	PASS
Band41	5MHz	QPSK	39675	25RB#0	Range2:1000~27000MHz	-34.11	PASS
Band41	5MHz	QPSK	40620	25RB#0	Range1:30~1000MHz	-47.83	PASS
Band41	5MHz	QPSK	40620	25RB#0	Range2:1000~27000MHz	-33.88	PASS
Band41	5MHz	QPSK	41565	25RB#0	Range1:30~1000MHz	-48.97	PASS
Band41	5MHz	QPSK	41565	25RB#0	Range2:1000~27000MHz	-34.56	PASS
Band41	5MHz	64QAM	39675	25RB#0	Range1:30~1000MHz	-48.12	PASS
Band41	5MHz	64QAM	39675	25RB#0	Range2:1000~27000MHz	-34.49	PASS
Band41	5MHz	64QAM	40620	25RB#0	Range1:30~1000MHz	-48.12	PASS
Band41	5MHz	64QAM	40620	25RB#0	Range2:1000~27000MHz	-35.41	PASS
Band41	5MHz	64QAM	41565	25RB#0	Range1:30~1000MHz	-48.67	PASS
Band41	5MHz	64QAM	41565	25RB#0	Range2:1000~27000MHz	-34.42	PASS
Band41	20MHz	QPSK	39750	100RB#0	Range1:30~1000MHz	-47.28	PASS
Band41	20MHz	QPSK	39750	100RB#0	Range2:1000~27000MHz	-35.37	PASS
Band41	20MHz	QPSK	40620	100RB#0	Range1:30~1000MHz	-47.81	PASS
Band41	20MHz	QPSK	40620	100RB#0	Range2:1000~27000MHz	-34.61	PASS
Band41	20MHz	QPSK	41490	100RB#0	Range1:30~1000MHz	-46.97	PASS
Band41	20MHz	QPSK	41490	100RB#0	Range2:1000~27000MHz	-34.85	PASS
Band41	20MHz	64QAM	39750	100RB#0	Range1:30~1000MHz	-47.43	PASS
Band41	20MHz	64QAM	39750	100RB#0	Range2:1000~27000MHz	-35.16	PASS
Band41	20MHz	64QAM	40620	100RB#0	Range1:30~1000MHz	-48.26	PASS
Band41	20MHz	64QAM	40620	100RB#0	Range2:1000~27000MHz	-35.13	PASS
Band41	20MHz	64QAM	41490	100RB#0	Range1:30~1000MHz	-47.33	PASS
Band41	20MHz	64QAM	41490	100RB#0	Range2:1000~27000MHz	-34.89	PASS

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

Test Graphs



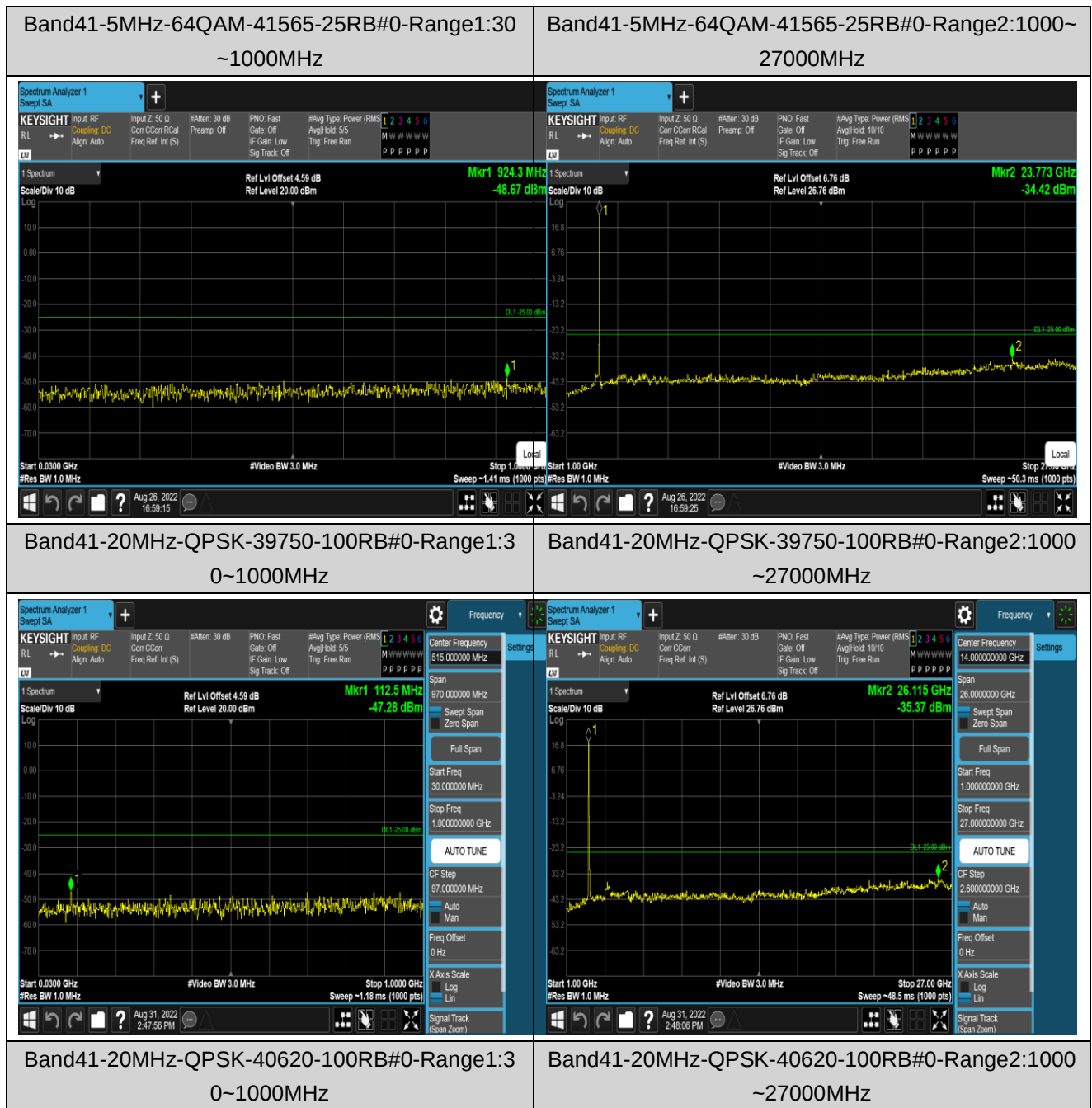


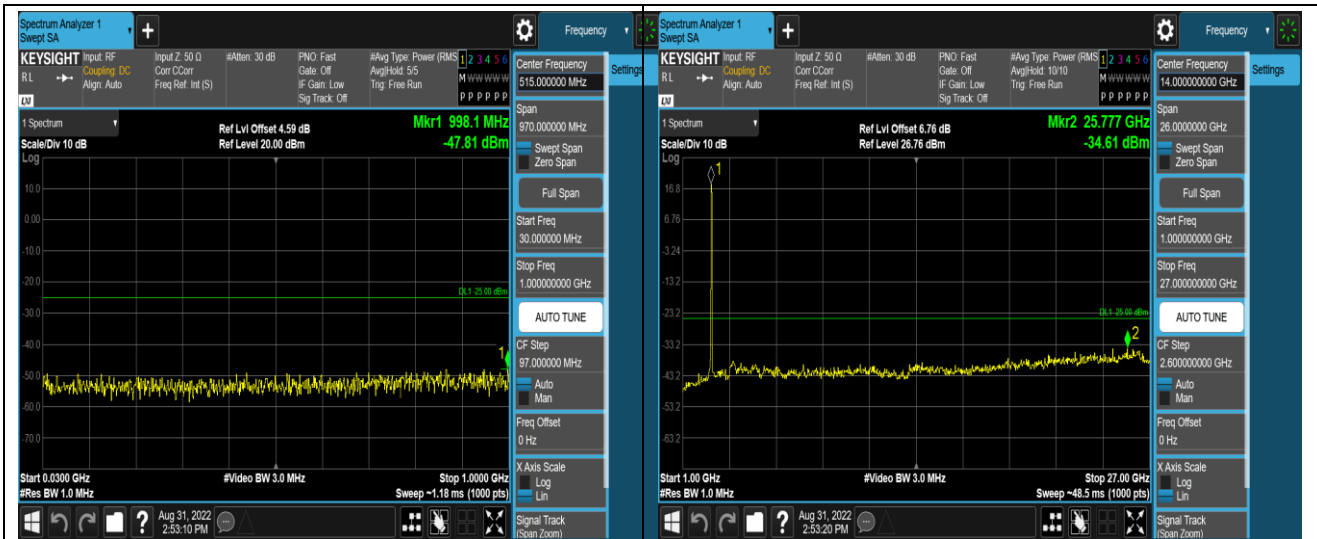
JianYan Testing Group Shenzhen Co., Ltd.

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.: JYTSZR2208003





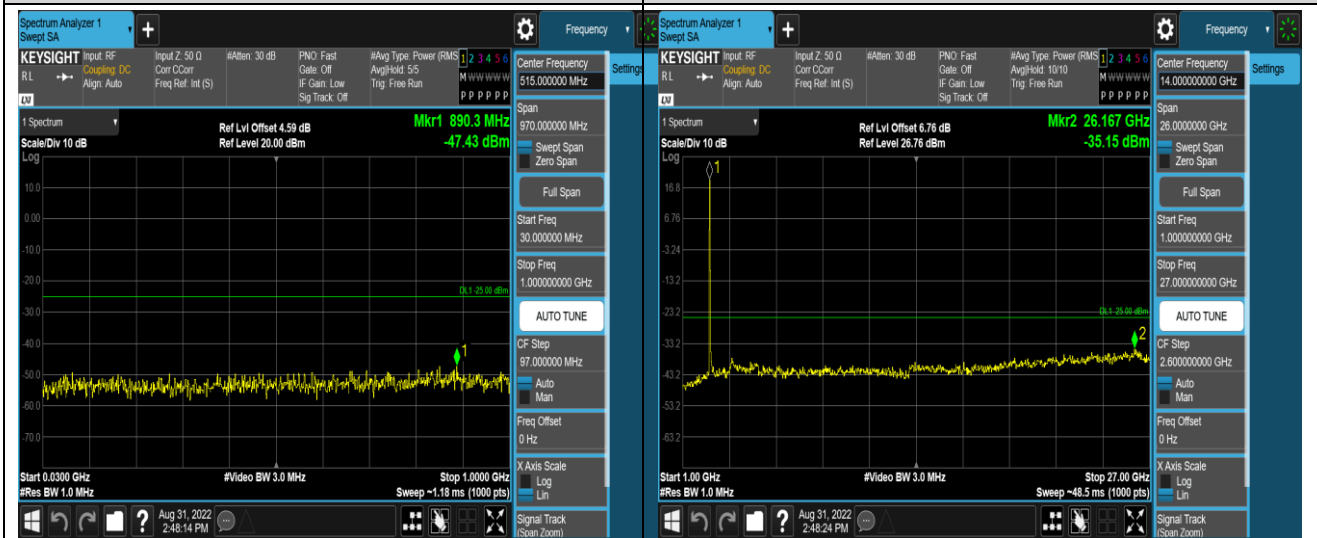
Band41-20MHz-QPSK-41490-100RB#0-Range1:3
0~1000MHz

Band41-20MHz-QPSK-41490-100RB#0-Range2:1000
~27000MHz



Band41-20MHz-64QAM-39750-100RB#0-Range1:1
30~1000MHz

Band41-20MHz-64QAM-39750-100RB#0-Range2:100
0~27000MHz



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.

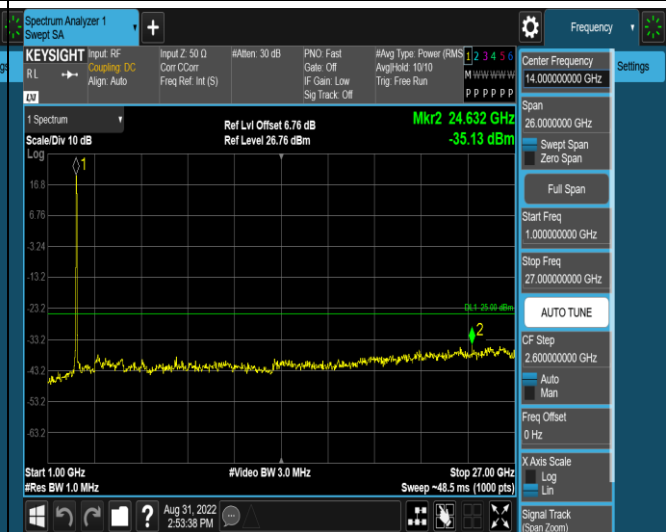
Tel: +86-755-23118282, Fax: +86-755-23116366

Project No.: JYTSZR2208003

Band41-20MHz-64QAM-40620-100RB#0-Range1:
30~1000MHz



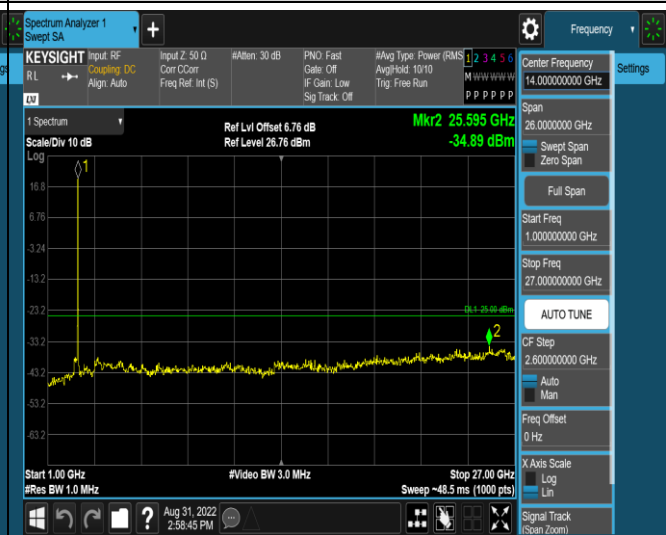
Band41-20MHz-64QAM-40620-100RB#0-Range2:100
0~27000MHz



Band41-20MHz-64QAM-41490-100RB#0-Range1:
30~1000MHz



Band41-20MHz-64QAM-41490-100RB#0-Range2:100
0~27000MHz



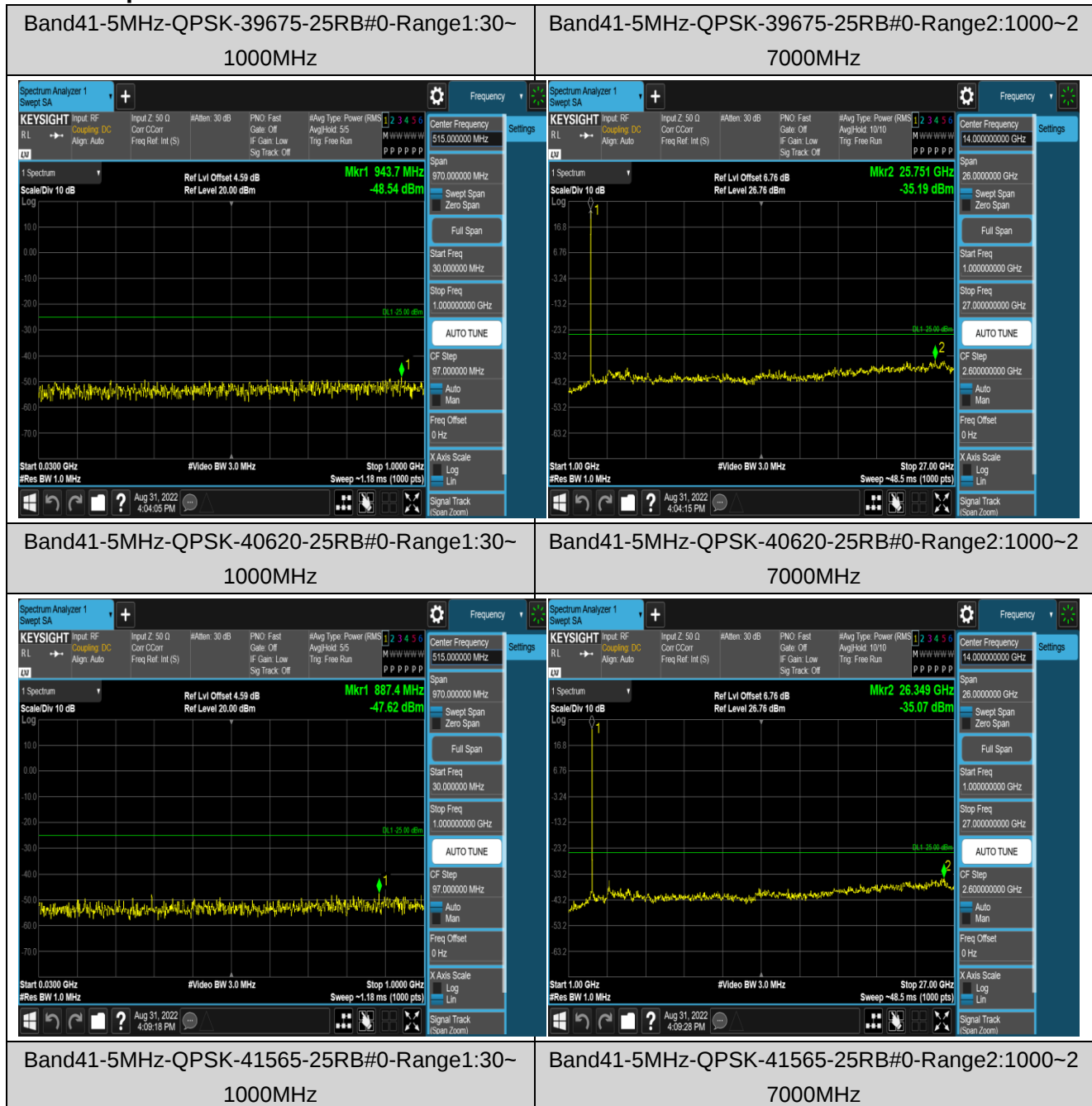
Appendix E: Conducted Spurious Emission For ANT3

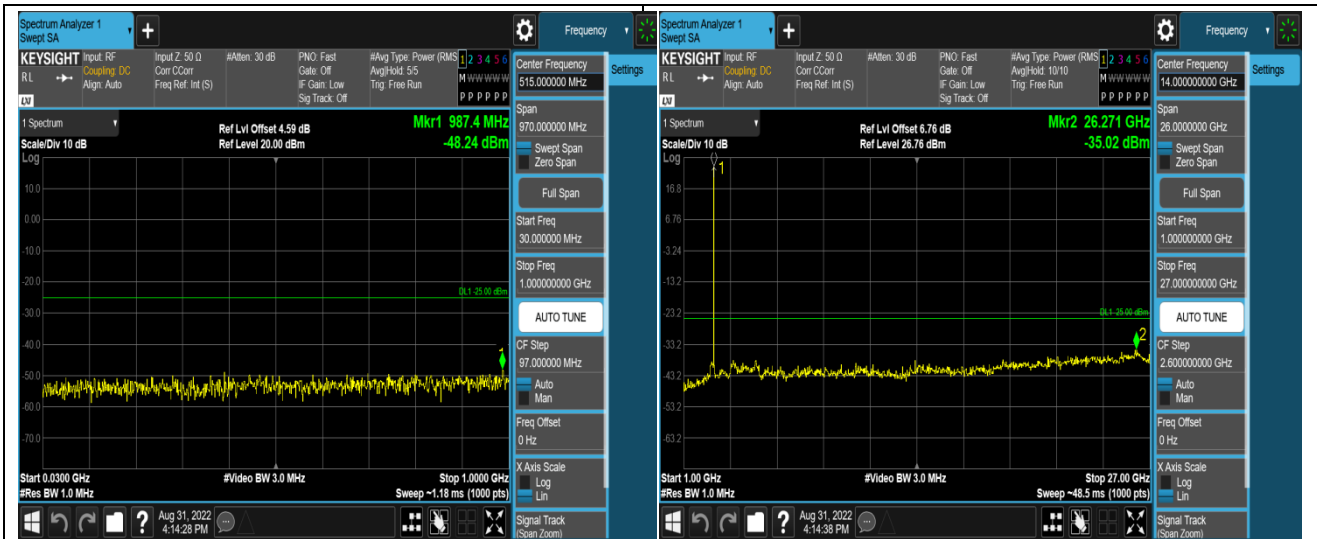
Test Result (worst case)

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	Range1:30~1000MHz	-48.54	PASS
Band41	5MHz	QPSK	39675	25RB#0	Range2:1000~27000MHz	-35.19	PASS
Band41	5MHz	QPSK	40620	25RB#0	Range1:30~1000MHz	-47.62	PASS
Band41	5MHz	QPSK	40620	25RB#0	Range2:1000~27000MHz	-35.07	PASS
Band41	5MHz	QPSK	41565	25RB#0	Range1:30~1000MHz	-48.24	PASS
Band41	5MHz	QPSK	41565	25RB#0	Range2:1000~27000MHz	-35.02	PASS
Band41	5MHz	64QAM	39675	25RB#0	Range1:30~1000MHz	-47.01	PASS
Band41	5MHz	64QAM	39675	25RB#0	Range2:1000~27000MHz	-35.38	PASS
Band41	5MHz	64QAM	40620	25RB#0	Range1:30~1000MHz	-47.11	PASS
Band41	5MHz	64QAM	40620	25RB#0	Range2:1000~27000MHz	-35.18	PASS
Band41	5MHz	64QAM	41565	25RB#0	Range1:30~1000MHz	-49.09	PASS
Band41	5MHz	64QAM	41565	25RB#0	Range2:1000~27000MHz	-35.12	PASS
Band41	20MHz	QPSK	39750	100RB#0	Range1:30~1000MHz	-47.46	PASS
Band41	20MHz	QPSK	39750	100RB#0	Range2:1000~27000MHz	-35.66	PASS
Band41	20MHz	QPSK	40620	100RB#0	Range1:30~1000MHz	-48.55	PASS
Band41	20MHz	QPSK	40620	100RB#0	Range2:1000~27000MHz	-35.09	PASS
Band41	20MHz	QPSK	41490	100RB#0	Range1:30~1000MHz	-48.32	PASS
Band41	20MHz	QPSK	41490	100RB#0	Range2:1000~27000MHz	-35.48	PASS
Band41	20MHz	64QAM	39750	100RB#0	Range1:30~1000MHz	-47.49	PASS
Band41	20MHz	64QAM	39750	100RB#0	Range2:1000~27000MHz	-34.94	PASS
Band41	20MHz	64QAM	40620	100RB#0	Range1:30~1000MHz	-47.43	PASS
Band41	20MHz	64QAM	40620	100RB#0	Range2:1000~27000MHz	-34.8	PASS
Band41	20MHz	64QAM	41490	100RB#0	Range1:30~1000MHz	-47.84	PASS
Band41	20MHz	64QAM	41490	100RB#0	Range2:1000~27000MHz	-35.56	PASS

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

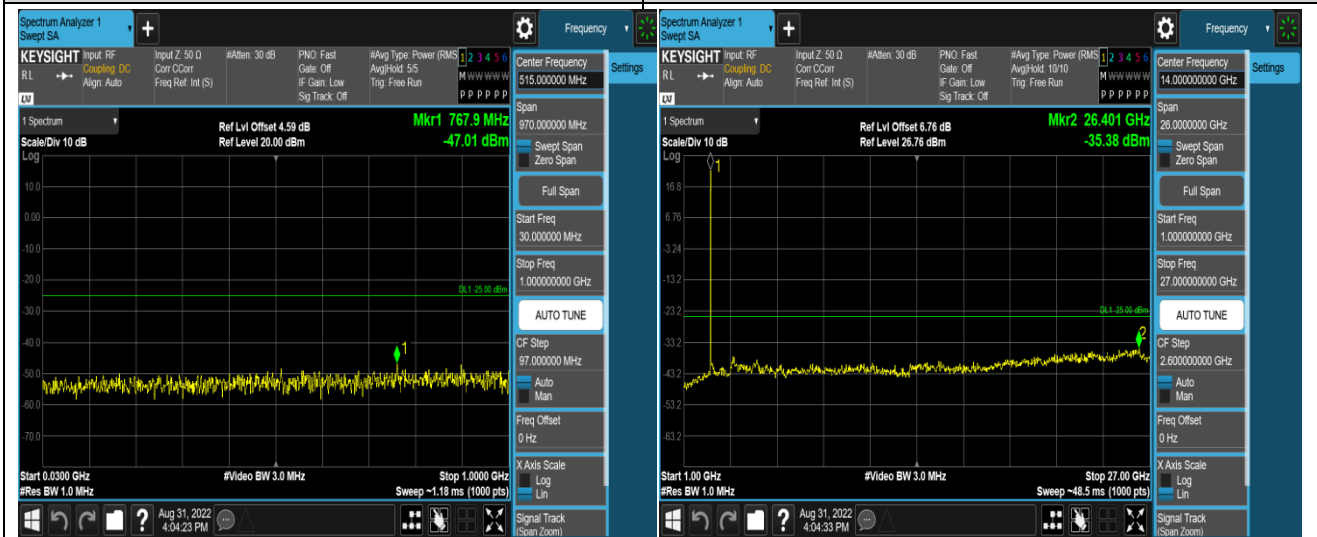
Test Graphs





Band41-5MHz-64QAM-39675-25RB#0-Range1:30
~1000MHz

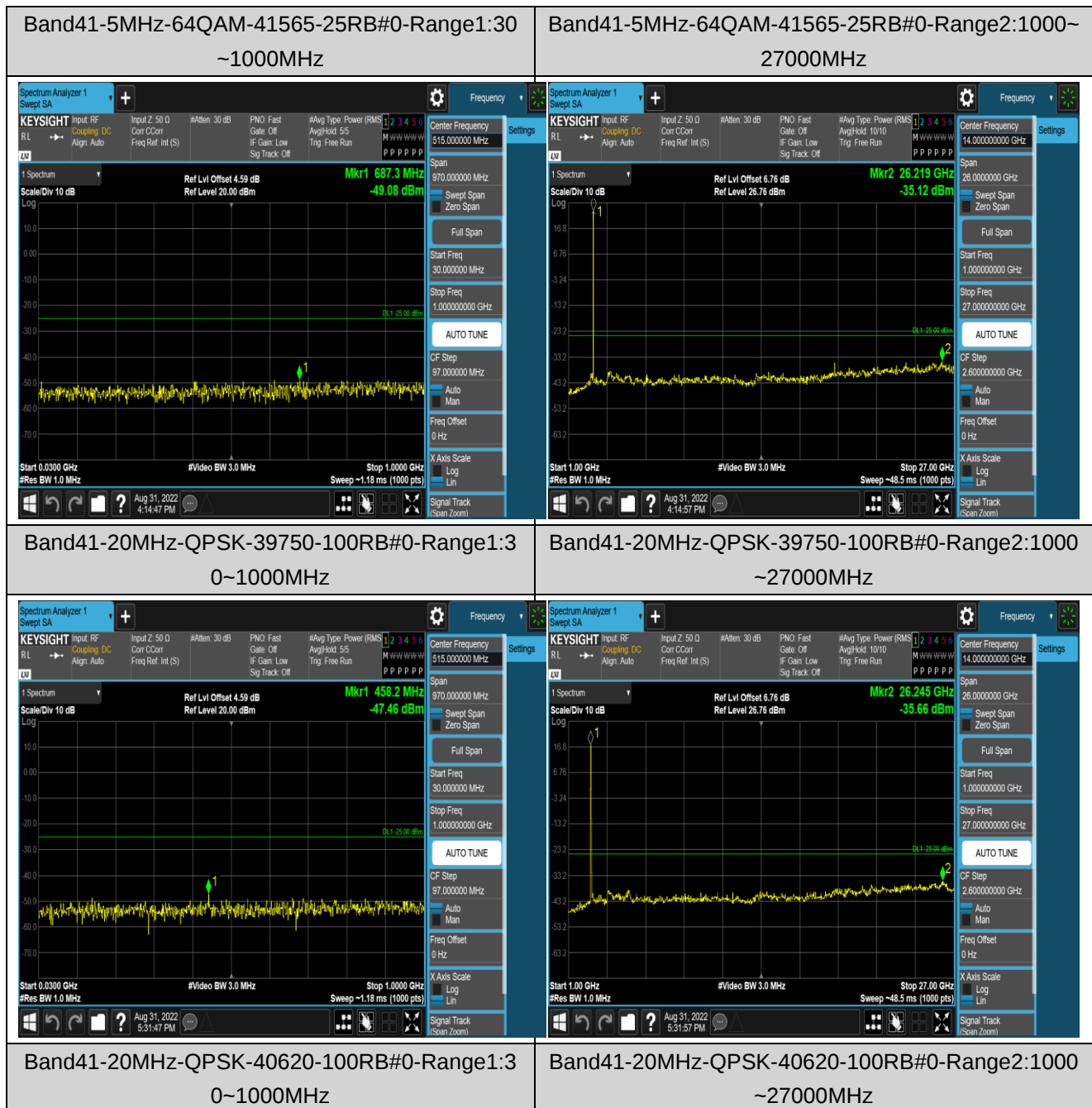
Band41-5MHz-64QAM-39675-25RB#0-Range2:1000~
27000MHz



Band41-5MHz-64QAM-40620-25RB#0-Range1:30
~1000MHz

Band41-5MHz-64QAM-40620-25RB#0-Range2:1000~
27000MHz

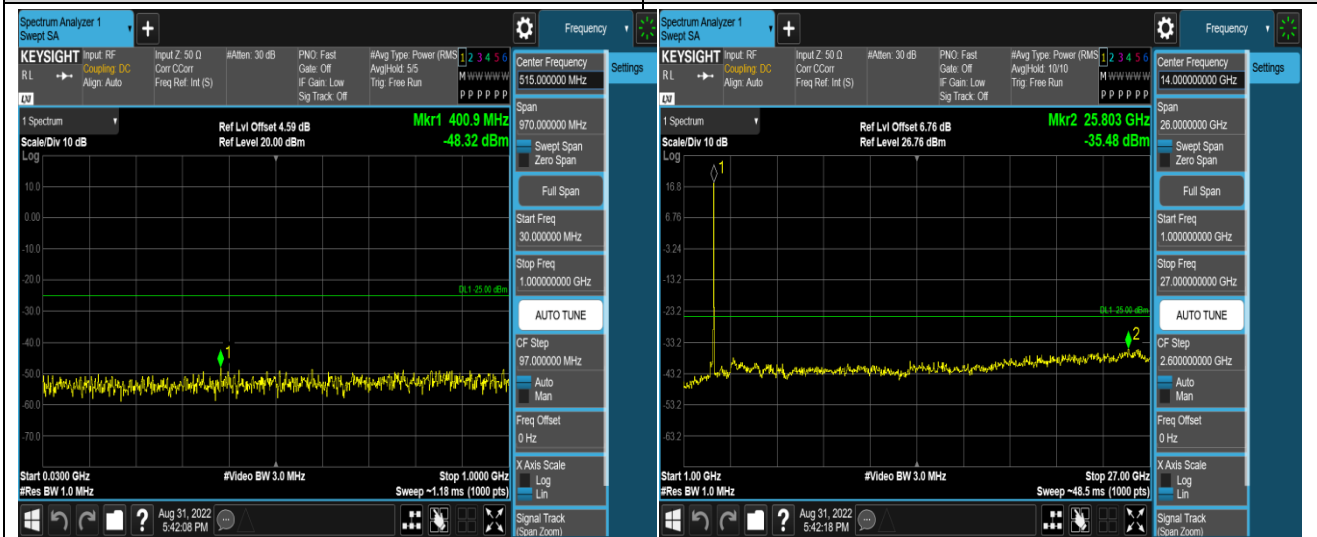






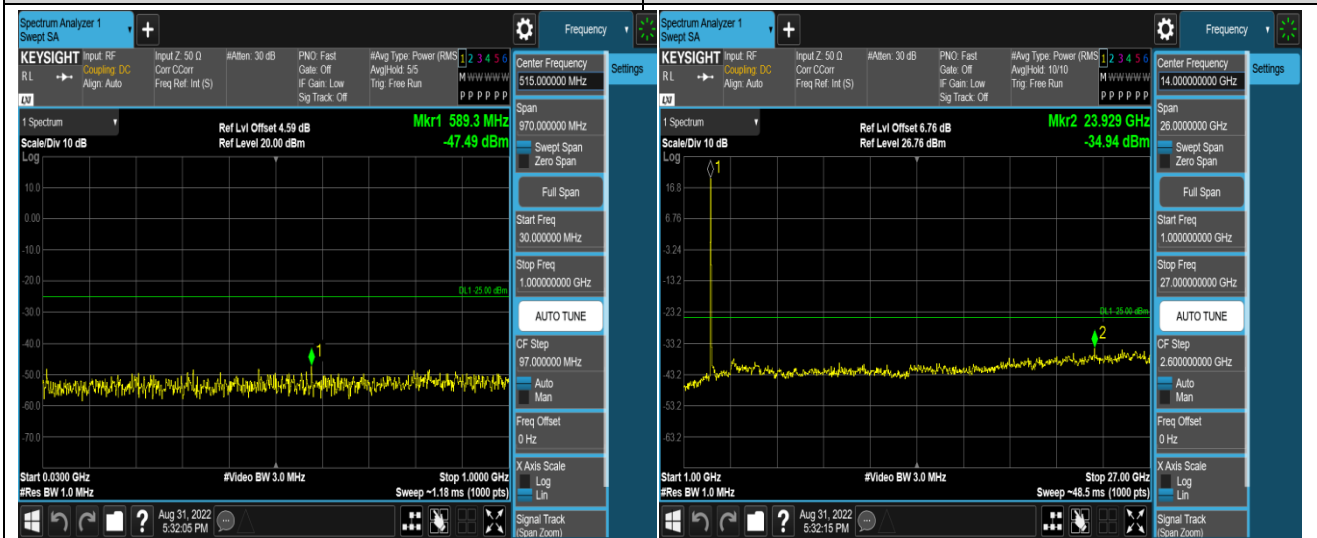
Band41-20MHz-QPSK-41490-100RB#0-Range1:3
0~1000MHz

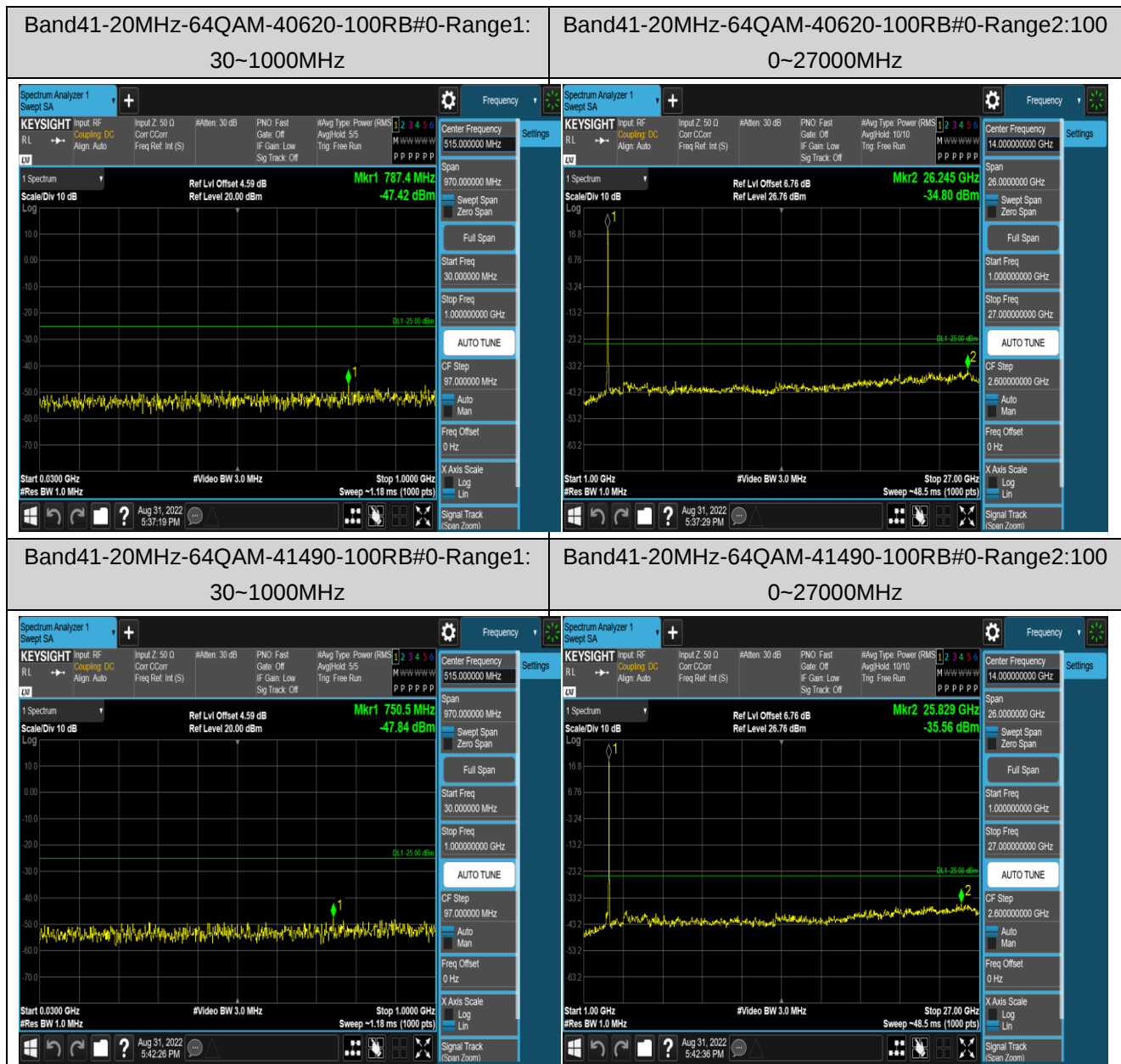
Band41-20MHz-QPSK-41490-100RB#0-Range2:1000
~27000MHz



Band41-20MHz-64QAM-39750-100RB#0-Range1:3
30~1000MHz

Band41-20MHz-64QAM-39750-100RB#0-Range2:100
0~27000MHz





Appendix F: Frequency Stability For ANT1

Test Result

LTE Band 41 part:

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40620 Frequency=2595.0MHz					
Temperature					
Power supplied (Vac)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
120	-10	-12.37	-0.004771	Within authorized band for Band 41	Pass
	0	21.13	0.008149		
	10	-19.41	-0.007486		
	20	-9.31	-0.003590		
	30	14.28	0.005507		
	40	-19.01	-0.007331		
	45	-21.17	-0.008164		
64QAM					
120	-10	-7.41	-0.002858	Within authorized band for Band 41	Pass
	0	-20.14	-0.007767		
	10	-14.82	-0.005715		
	20	19.97	0.007702		
	30	-18.88	-0.007281		
	40	-16.78	-0.006471		
	45	-6.58	-0.002538		
Voltage					
Temperature (°C)	Power supplied (Vac)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	102	-16.65	-0.006421	Within authorized band for Band 41	Pass
	120	-20.53	-0.007917		
	138	-16.58	-0.006394		
64QAM					
25	102	-24.55	-0.009468	Within authorized band for Band41	Pass
	120	-9.74	-0.003756		
	138	-18.84	-0.007266		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					

Appendix F: Frequency Stability For ANT3

Test Result

Reference Frequency: LTE Band 41 (10MHz) Middle channel=40620 Frequency=2593.0MHz					
Temperature					
Power supplied (Vac)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
120	-10	-24.55	-0.009468	Within authorized band for Band 41	Pass
	0	-22.24	-0.008577		
	10	-11.00	-0.004242		
	20	-13.38	-0.005160		
	30	-32.00	-0.012341		
	40	-10.79	-0.004161		
	45	-19.21	-0.007408		
64QAM					
120	-10	-18.27	-0.007046	Within authorized band for Band 41	Pass
	0	-17.57	-0.006776		
	10	-11.79	-0.004547		
	20	-21.86	-0.008430		
	30	-12.70	-0.004898		
	40	-16.49	-0.006359		
	45	-8.64	-0.003332		
Voltage					
Temperature (℃)	Power supplied (Vac)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	102	-25.68	-0.009904	Within authorized band for Band 41	Pass
	120	-7.04	-0.002715		
	138	-22.79	-0.008789		
64QAM					
25	102	-8.65	-0.003336	Within authorized band for Band41	Pass
	120	-8.25	-0.003182		
	138	20.00	0.007713		
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.					