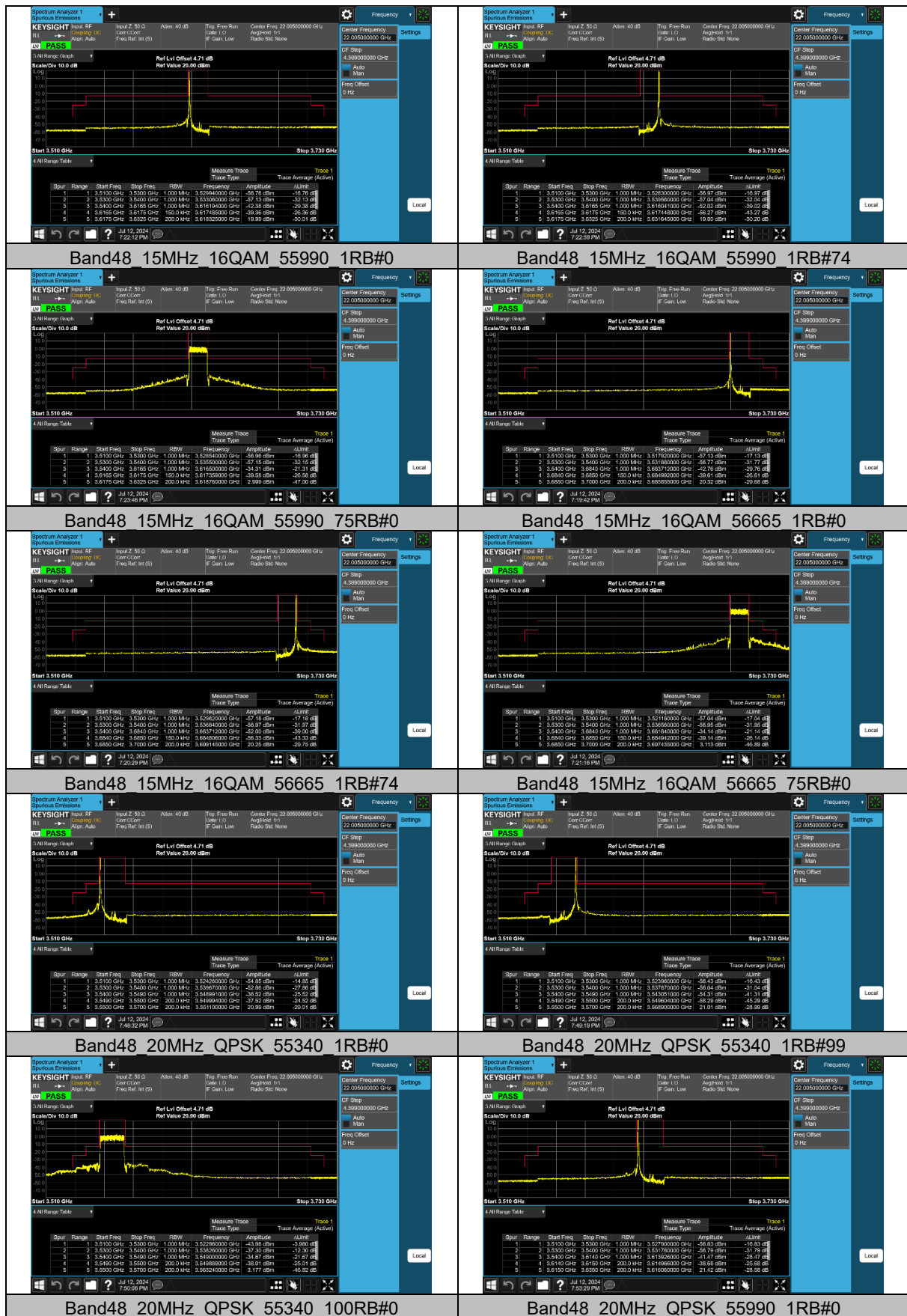
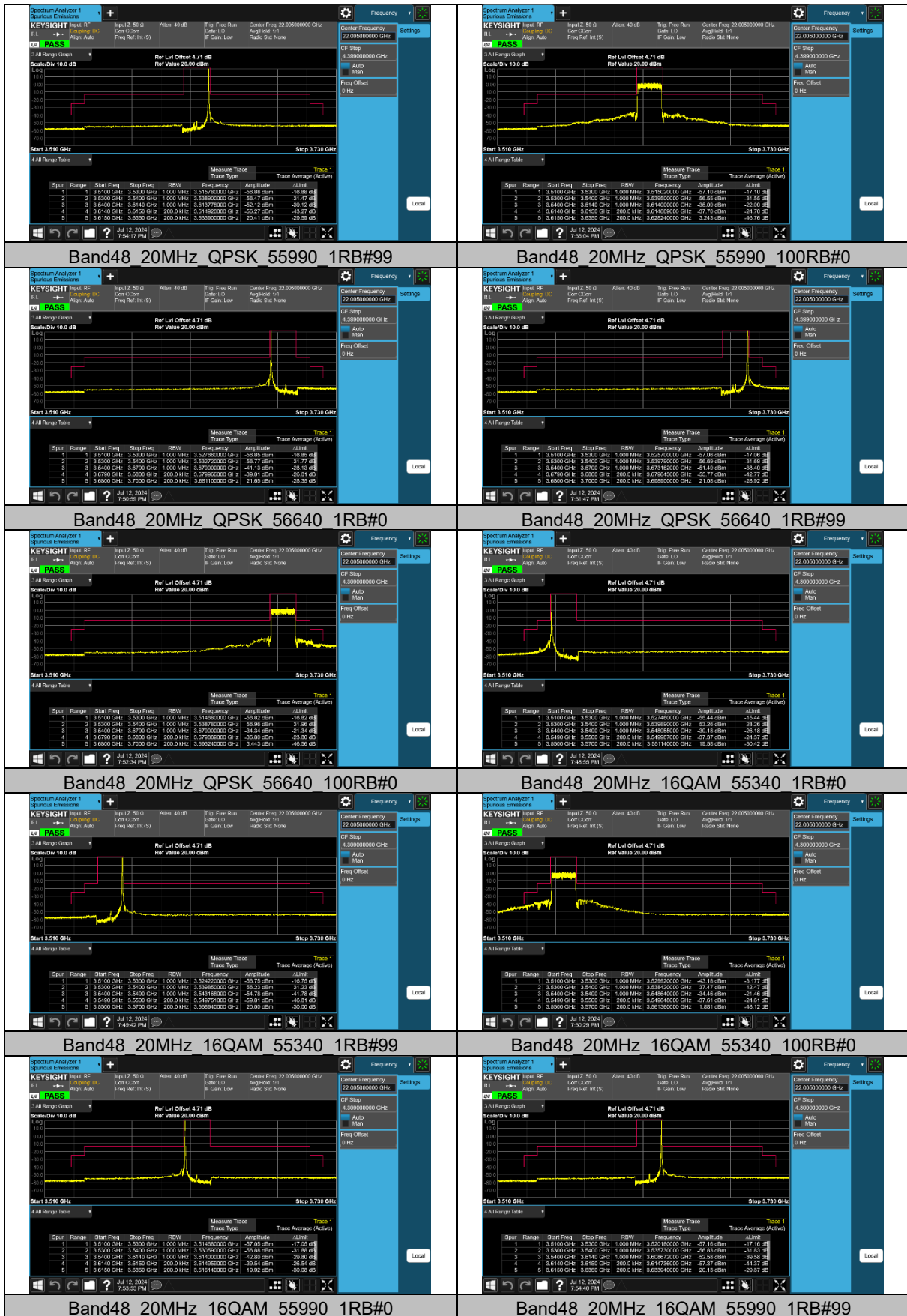
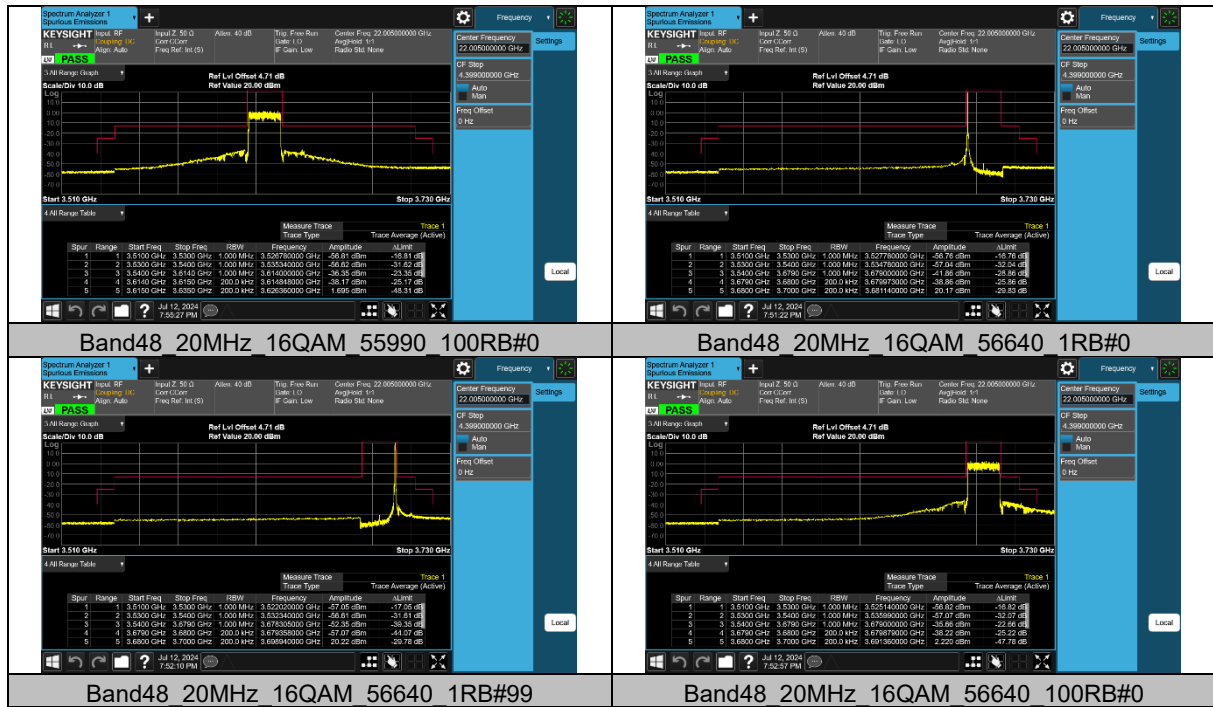








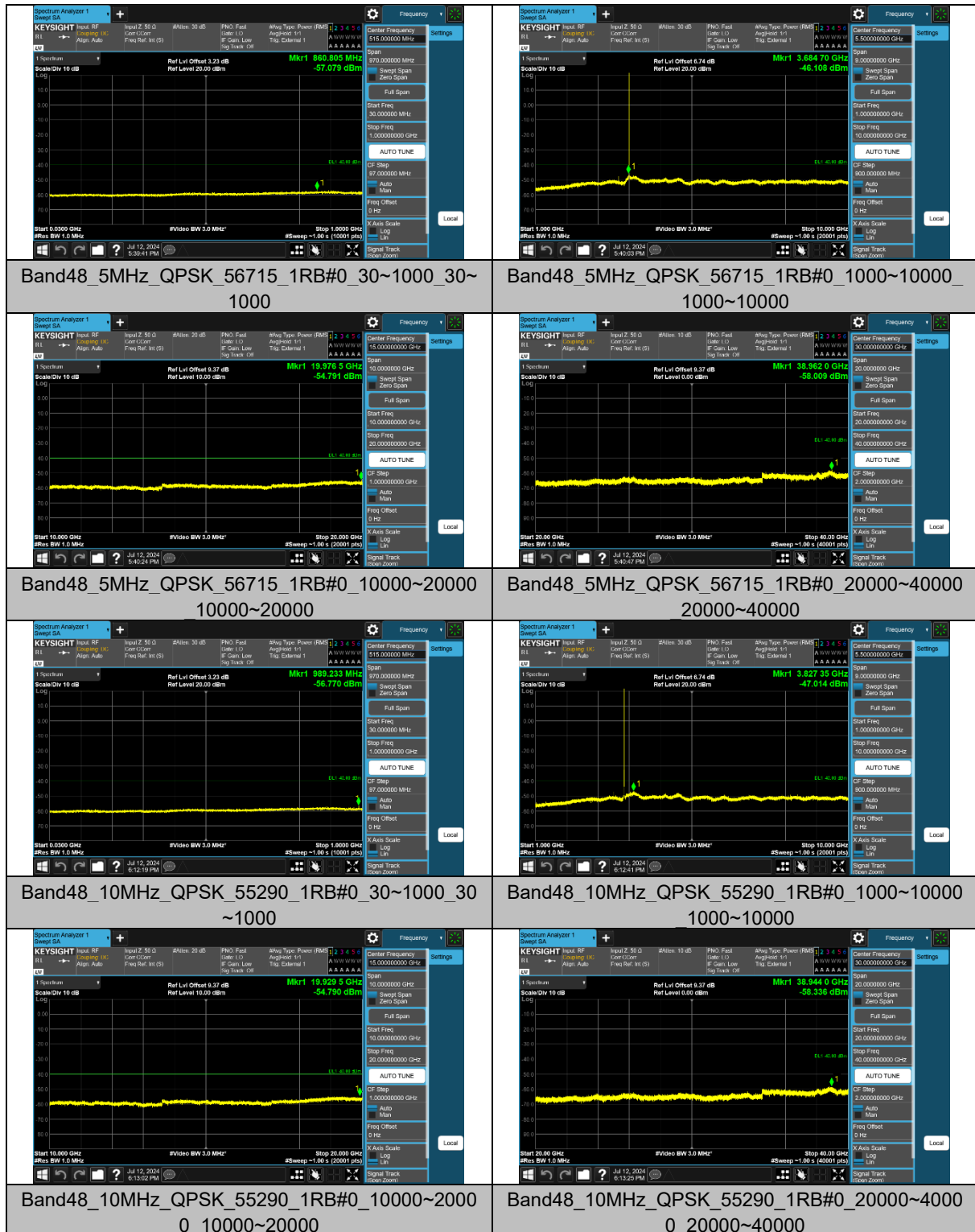
CONDUCTED SPURIOUS EMISSION TEST RESULT

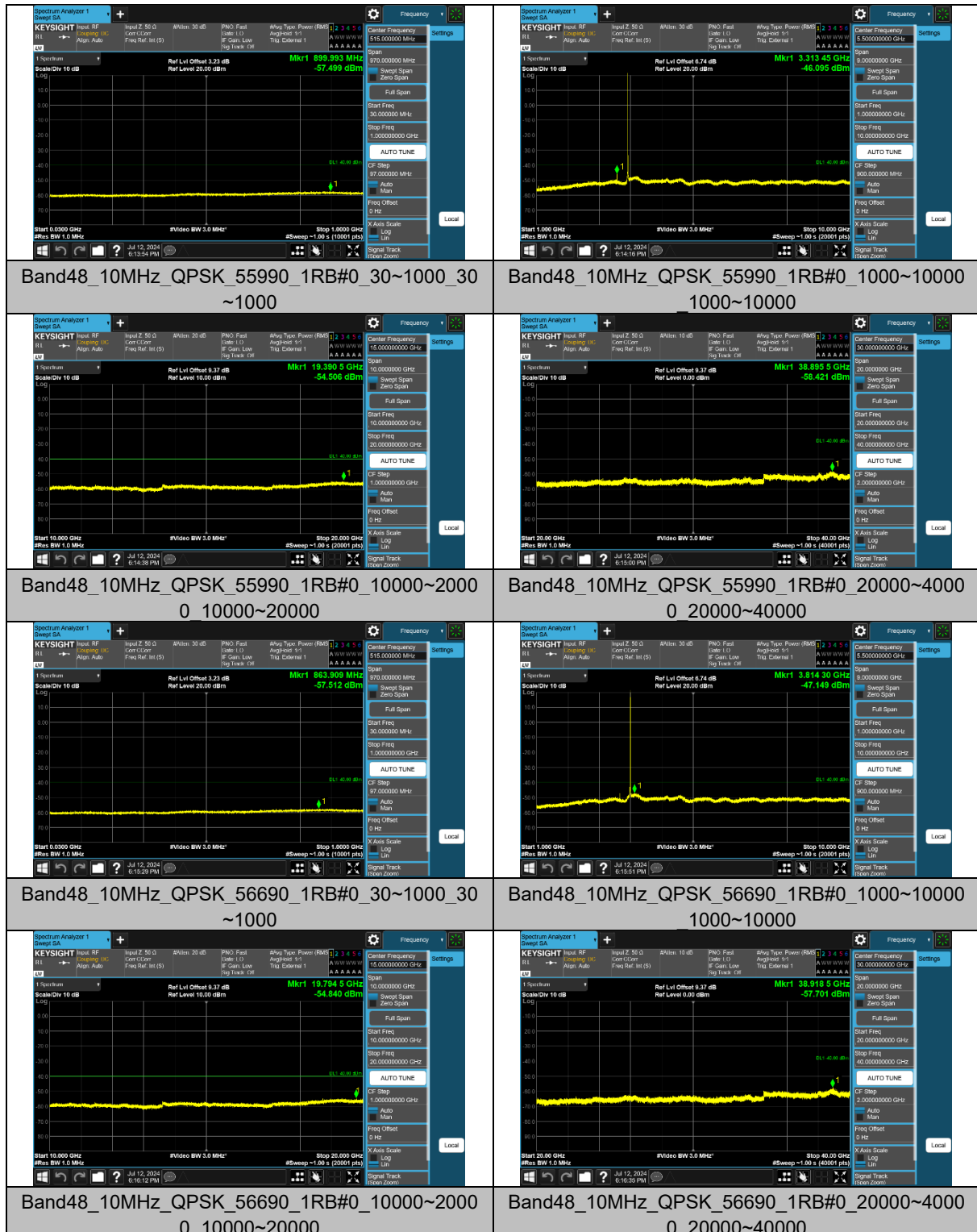
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	30~1000	-56.24	PASS
Band48	5MHz	QPSK	55265	1RB#0	1000~10000	-45.92	PASS
Band48	5MHz	QPSK	55265	1RB#0	10000~20000	-54.95	PASS
Band48	5MHz	QPSK	55265	1RB#0	20000~40000	-58.20	PASS
Band48	5MHz	QPSK	55990	1RB#0	30~1000	-57.42	PASS
Band48	5MHz	QPSK	55990	1RB#0	1000~10000	-46.74	PASS
Band48	5MHz	QPSK	55990	1RB#0	10000~20000	-54.94	PASS
Band48	5MHz	QPSK	55990	1RB#0	20000~40000	-58.14	PASS
Band48	5MHz	QPSK	56715	1RB#0	30~1000	-57.08	PASS
Band48	5MHz	QPSK	56715	1RB#0	1000~10000	-46.11	PASS
Band48	5MHz	QPSK	56715	1RB#0	10000~20000	-54.79	PASS
Band48	5MHz	QPSK	56715	1RB#0	20000~40000	-58.01	PASS
Band48	10MHz	QPSK	55290	1RB#0	30~1000	-56.77	PASS
Band48	10MHz	QPSK	55290	1RB#0	1000~10000	-47.01	PASS
Band48	10MHz	QPSK	55290	1RB#0	10000~20000	-54.79	PASS
Band48	10MHz	QPSK	55290	1RB#0	20000~40000	-58.34	PASS
Band48	10MHz	QPSK	55990	1RB#0	30~1000	-57.50	PASS
Band48	10MHz	QPSK	55990	1RB#0	1000~10000	-46.10	PASS
Band48	10MHz	QPSK	55990	1RB#0	10000~20000	-54.51	PASS
Band48	10MHz	QPSK	55990	1RB#0	20000~40000	-58.42	PASS
Band48	10MHz	QPSK	56690	1RB#0	30~1000	-57.51	PASS
Band48	10MHz	QPSK	56690	1RB#0	1000~10000	-47.15	PASS
Band48	10MHz	QPSK	56690	1RB#0	10000~20000	-54.84	PASS
Band48	10MHz	QPSK	56690	1RB#0	20000~40000	-57.70	PASS
Band48	15MHz	QPSK	55315	1RB#0	30~1000	-56.00	PASS
Band48	15MHz	QPSK	55315	1RB#0	1000~10000	-47.10	PASS
Band48	15MHz	QPSK	55315	1RB#0	10000~20000	-54.67	PASS
Band48	15MHz	QPSK	55315	1RB#0	20000~40000	-58.40	PASS
Band48	15MHz	QPSK	55990	1RB#0	30~1000	-57.49	PASS
Band48	15MHz	QPSK	55990	1RB#0	1000~10000	-47.13	PASS
Band48	15MHz	QPSK	55990	1RB#0	10000~20000	-54.77	PASS
Band48	15MHz	QPSK	55990	1RB#0	20000~40000	-57.68	PASS
Band48	15MHz	QPSK	56665	1RB#0	30~1000	-57.54	PASS
Band48	15MHz	QPSK	56665	1RB#0	1000~10000	-46.95	PASS
Band48	15MHz	QPSK	56665	1RB#0	10000~20000	-54.83	PASS
Band48	15MHz	QPSK	56665	1RB#0	20000~40000	-57.80	PASS
Band48	20MHz	QPSK	55340	1RB#0	30~1000	-56.70	PASS
Band48	20MHz	QPSK	55340	1RB#0	1000~10000	-47.14	PASS
Band48	20MHz	QPSK	55340	1RB#0	10000~20000	-55.02	PASS
Band48	20MHz	QPSK	55340	1RB#0	20000~40000	-58.70	PASS
Band48	20MHz	QPSK	55990	1RB#0	30~1000	-57.66	PASS
Band48	20MHz	QPSK	55990	1RB#0	1000~10000	-47.06	PASS
Band48	20MHz	QPSK	55990	1RB#0	10000~20000	-55.28	PASS
Band48	20MHz	QPSK	55990	1RB#0	20000~40000	-58.69	PASS
Band48	20MHz	QPSK	56640	1RB#0	30~1000	-57.55	PASS
Band48	20MHz	QPSK	56640	1RB#0	1000~10000	-47.72	PASS

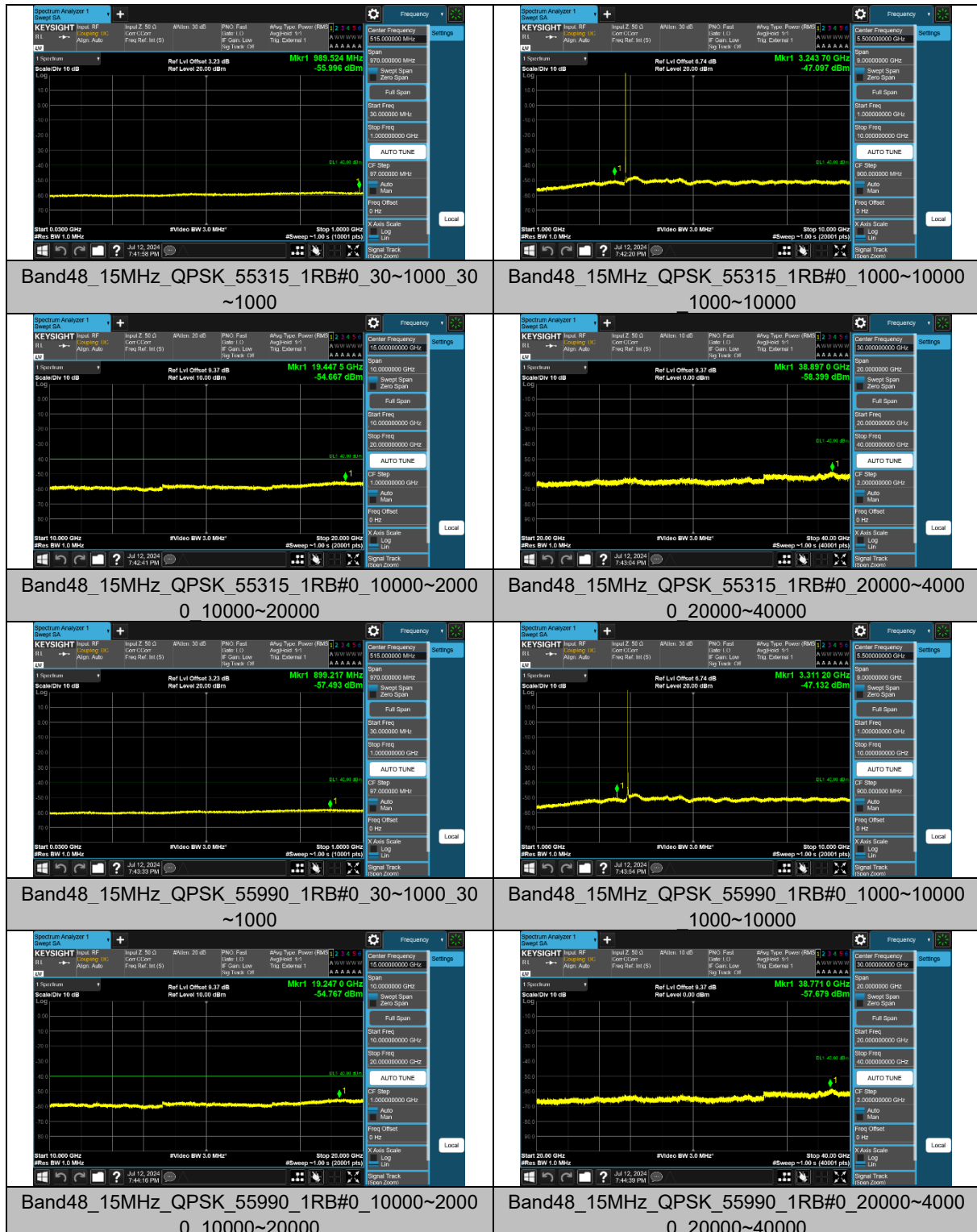
Band48	20MHz	QPSK	56640	1RB#0	10000~20000	-55.21	PASS
Band48	20MHz	QPSK	56640	1RB#0	20000~40000	-58.03	PASS

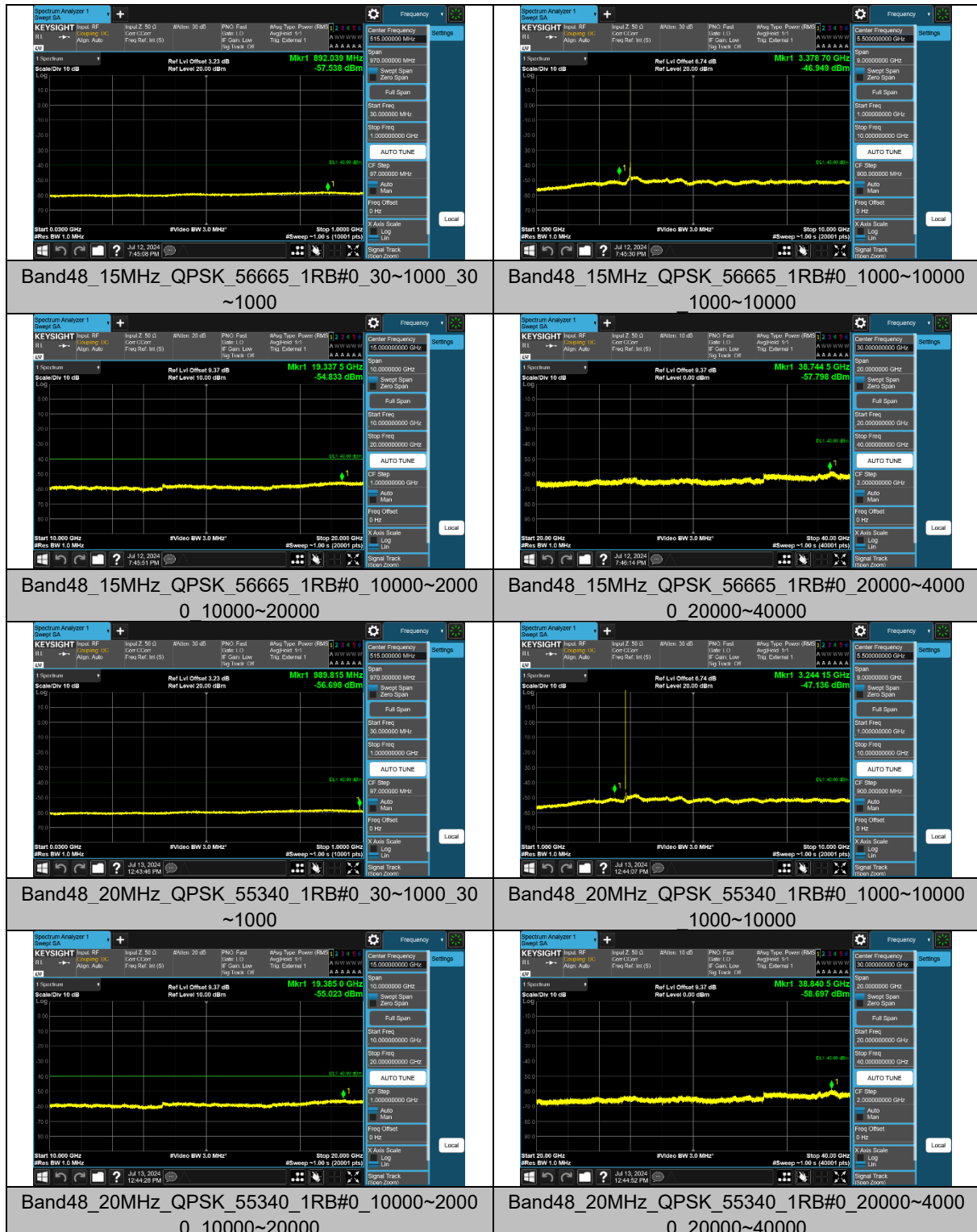
TEST GRAPHS

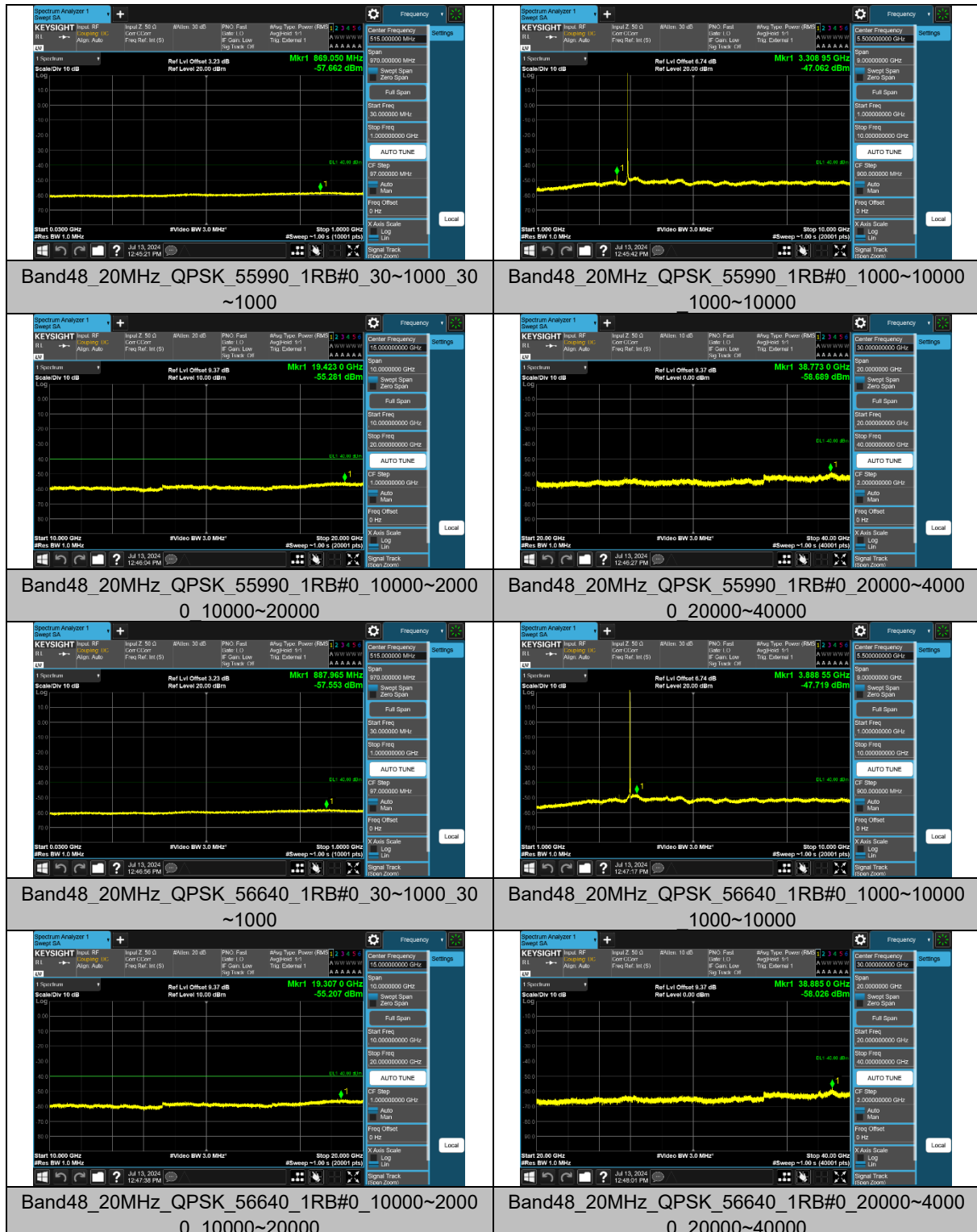












FREQUENCY STABILITY TEST RESULT

Voltage												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperat ure (°C)	Deviation (Hz)	Deviati on (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band48	10MHz	QPSK	55290	50RB#0	VN	NT	1470.00	0.4135 02	3550.53332	---	3550- 3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	VL	NT	1320.00	0.3713 08	3550.53302	---	3550- 3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	VH	NT	1280.00	0.3600 56	3550.53298	---	3550- 3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	VN	NT	-600.00	- 0.1623 82	---	3699.46835	3550- 3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	VL	NT	-420.00	- 0.1136 67	---	3699.46843	3550- 3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	VH	NT	-440.00	- 0.1190 80	---	3699.46836	3550- 3700	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
Band48	10MHz	QPSK	55290	50RB#0	NV	-30	1320.00	0.371308	3550.53302	---	3550-3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	NV	-20	1280.00	0.360056	3550.53303	---	3550-3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	NV	-10	1320.00	0.371308	3550.53307	---	3550-3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	NV	0	1250.00	0.351617	3550.533	---	3550-3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	NV	10	1230.00	0.345992	3550.53293	---	3550-3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	NV	20	1300.00	0.365682	3550.5331	---	3550-3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	NV	30	1320.00	0.371308	3550.53297	---	3550-3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	NV	40	1310.00	0.368495	3550.53296	---	3550-3700	PASS
Band48	10MHz	QPSK	55290	50RB#0	NV	50	1230.00	0.345992	3550.53293	---	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	-30	-440.00	-0.119080	---	3699.46826	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	-20	-490.00	-0.132612	---	3699.46826	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	-10	-450.00	-0.121786	---	3699.4683	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	0	-360.00	-0.097429	---	3699.46799	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	10	-700.00	-0.189445	---	3699.4684	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	20	-500.00	-0.135318	---	3699.46815	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	30	-520.00	-0.140731	---	3699.46818	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	40	-740.00	-0.200271	---	3699.46776	3550-3700	PASS
Band48	10MHz	QPSK	56690	50RB#0	NV	50	-390.00	-0.105548	---	3699.46791	3550-3700	PASS

RADIATED EMISSION MEASUREMENT

TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

LTE Band 48

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE		TX channel 55990			FREQUENCY RANGE		Below 1000MHz	
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			INPUT POWER		DC 5V	
TESTED BY		Jack Liu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	31.750	-68.25	-40.00	28.25	-0.41	H	104.3	1.00
1	64.550	-75.81	-40.00	35.81	-6.13	H	0.9	2.00
1	142.150	-71.27	-40.00	31.27	-14.49	H	68.5	1.00
1	238.450	-67.26	-40.00	27.26	0.07	H	104.3	1.00
1	446.150	-75.95	-40.00	35.95	1.10	H	292.6	2.00
2	663.033	-74.20	-40.00	34.20	1.47	H	1.5	2.00

MODE	TX channel 55990		FREQUENCY RANGE		Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH		INPUT POWER		DC 5V			
TESTED BY	Jack Liu							
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	33.000	-69.66	-40.00	29.66	-6.18	V	359	1.00
1	58.800	-70.96	-40.00	30.96	-3.57	V	281.3	1.00
1	99.600	-66.89	-40.00	26.89	5.11	V	291.4	2.00
1	238.400	-78.35	-40.00	38.35	-6.31	V	355.8	2.00
2	500.325	-79.02	-40.00	39.02	-0.35	V	170.6	2.00
2	880.238	-73.86	-40.00	33.86	4.07	V	359	2.00

ABOVE 1GHz WORST-CASE DATA

Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

LTE BAND 48

CHANNEL BANDWIDTH: 10MHz / QPSK

CH55990

MODE		TX channel 55990			FREQUENCY RANGE		Above 1000MHz	
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			INPUT POWER		DC 5V	
TESTED BY		Jack Liu						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,241.000	-49.30	-40.00	9.30	24.57	H	250.2	1.00
6	10,861.500	-60.76	-40.00	20.76	11.56	H	1	2.00

MODE		TX channel 55990			FREQUENCY RANGE		Above 1000MHz	
ENVIRONMENTAL CONDITIONS		23deg. C, 70%RH			INPUT POWER		DC 5V	
TESTED BY		Jack Liu						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,241.000	-49.59	-40.00	9.59	24.57	V	0.9	2.00
6	10,761.500	-59.00	-40.00	19.00	11.62	V	27.3	2.00

--END--