

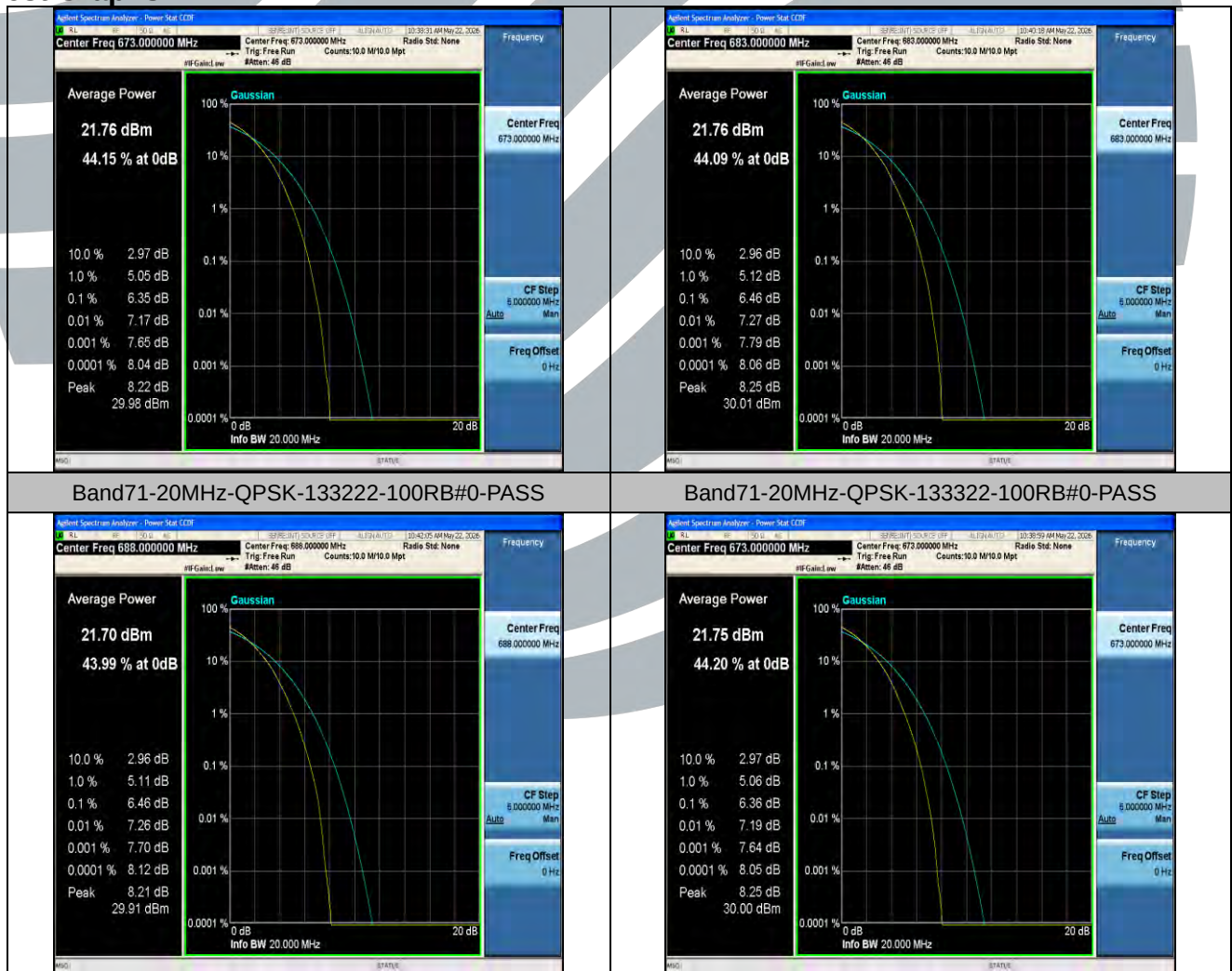
APPENDIX J LTE BAND 71 RF TEST DATA

J.1 PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	6.35	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	6.46	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	6.46	13	PASS
Band71	20MHz	64QAM	133222	100RB#0	6.36	13	PASS
Band71	20MHz	64QAM	133322	100RB#0	6.45	13	PASS
Band71	20MHz	64QAM	133372	100RB#0	6.47	13	PASS
Band71	20MHz	256QAM	133222	100RB#0	6.56	13	PASS
Band71	20MHz	256QAM	133322	100RB#0	6.55	13	PASS
Band71	20MHz	256QAM	133372	100RB#0	6.58	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.35	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.45	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.47	13	PASS

Test Graphs



Shenzhen UnionTrust Quality and Technology Co., Ltd.

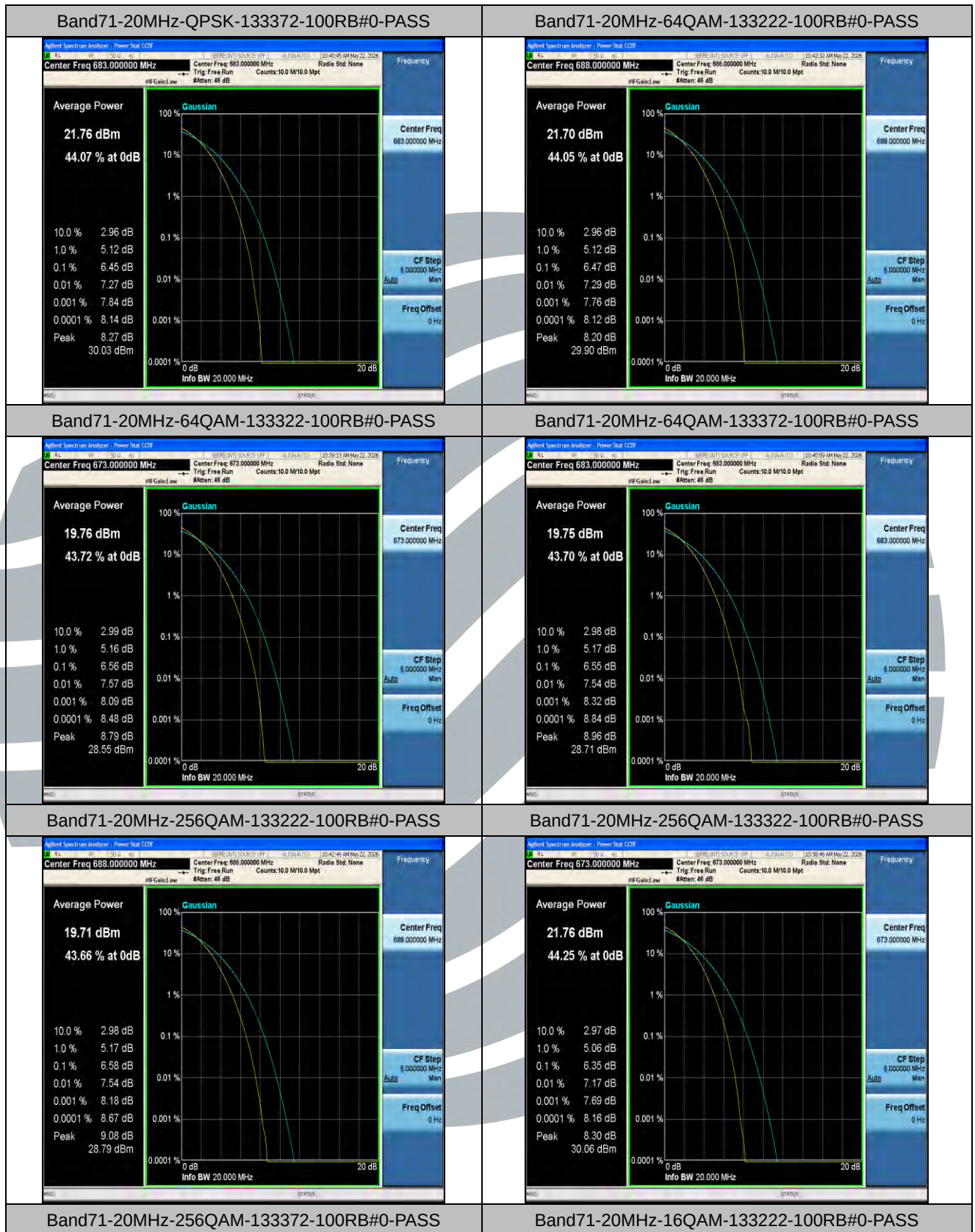
Address: 16/F., Block A, Building 6, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, Guangdong, China

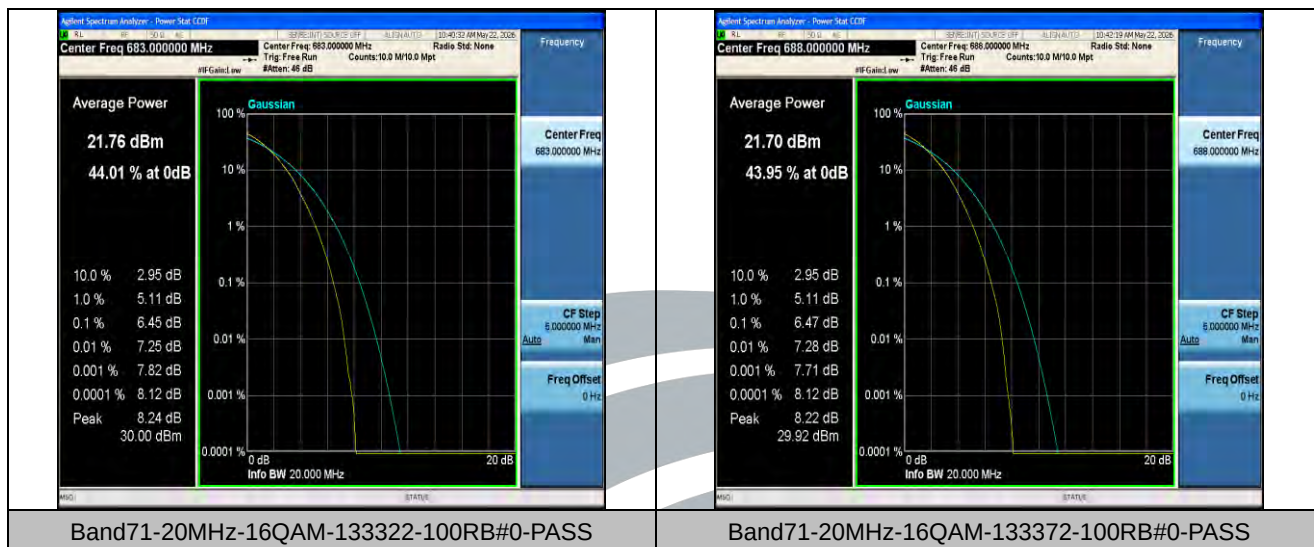
Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>



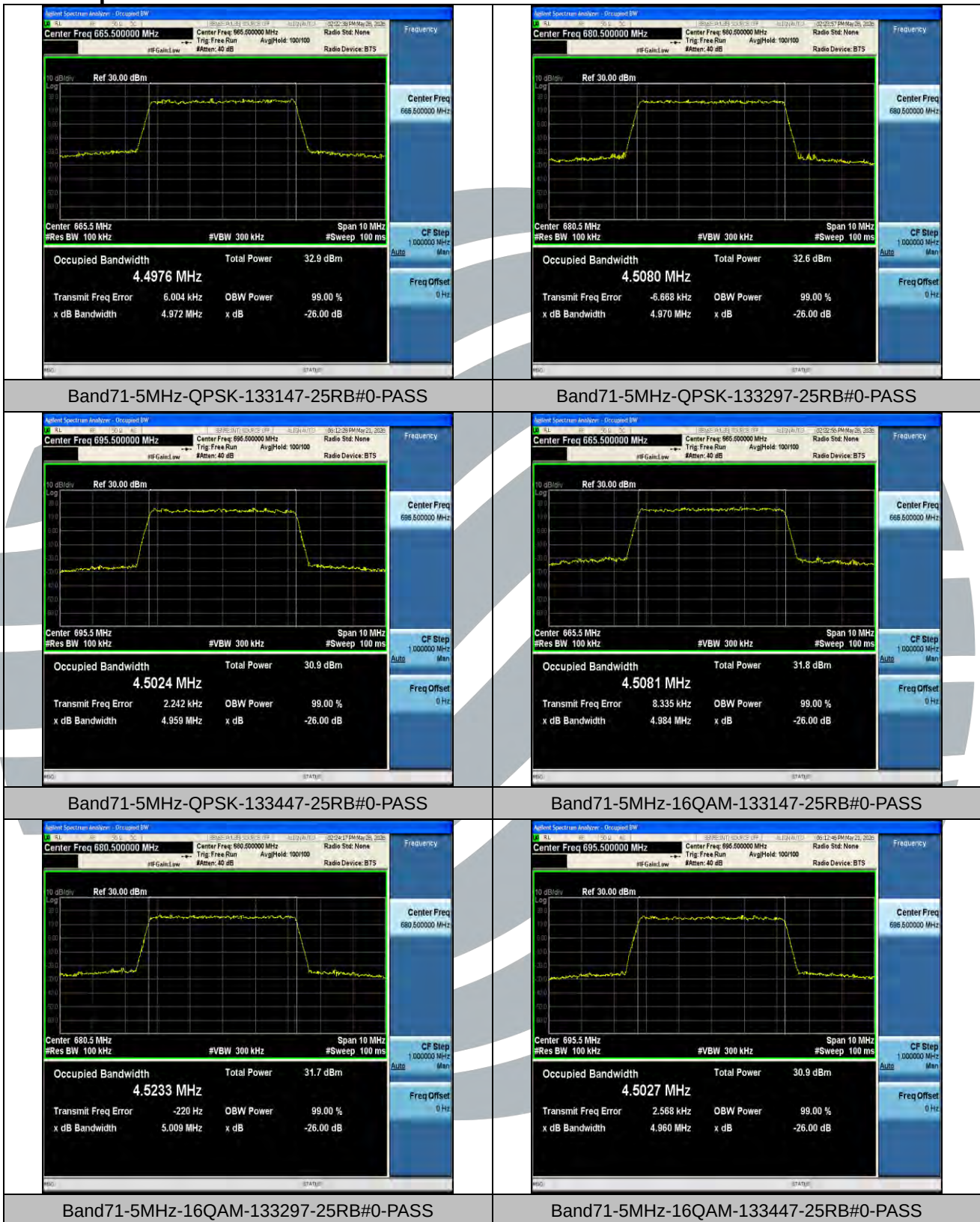


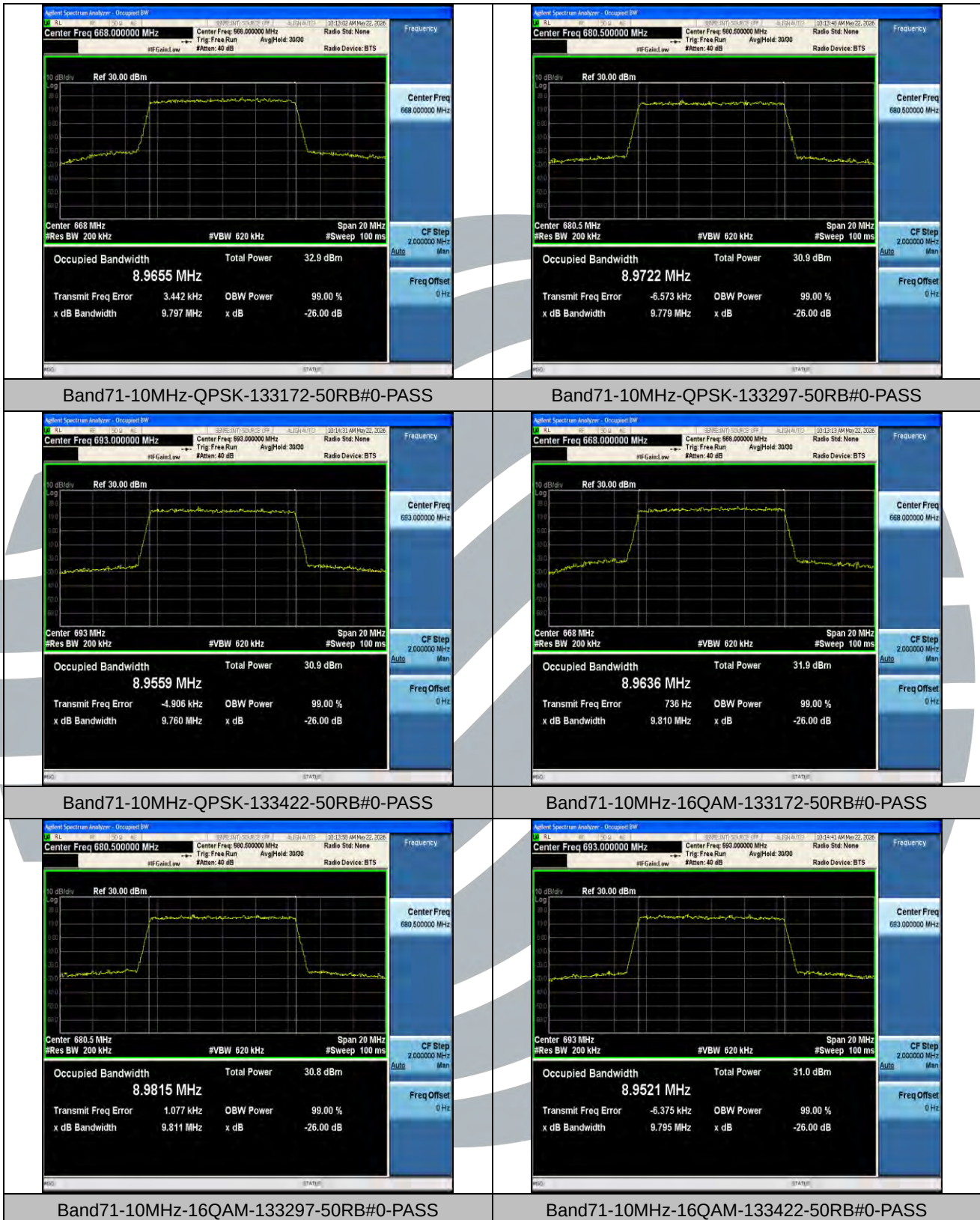
J.226DB BANDWIDTH AND OCCUPIED BANDWIDTH

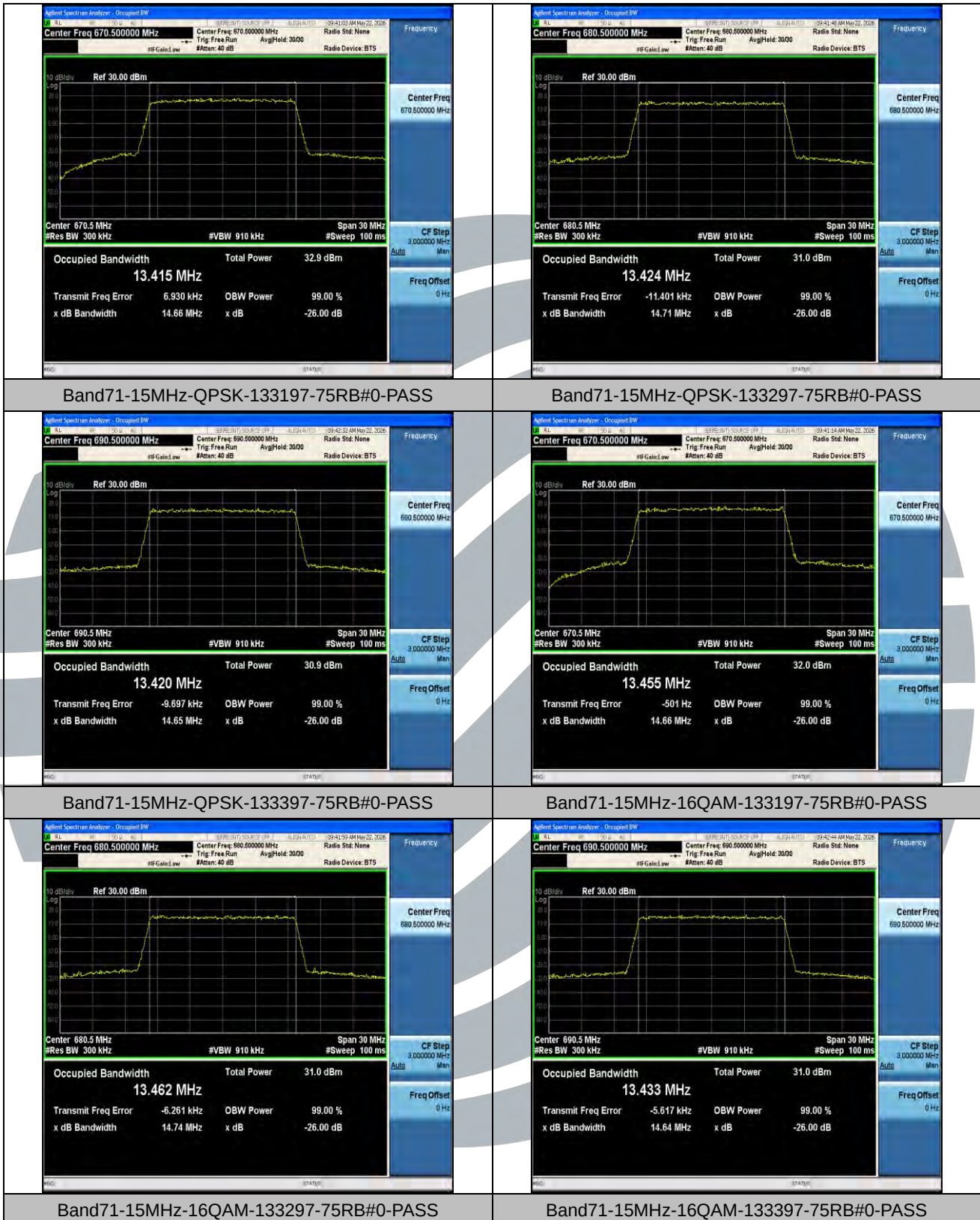
Test Result

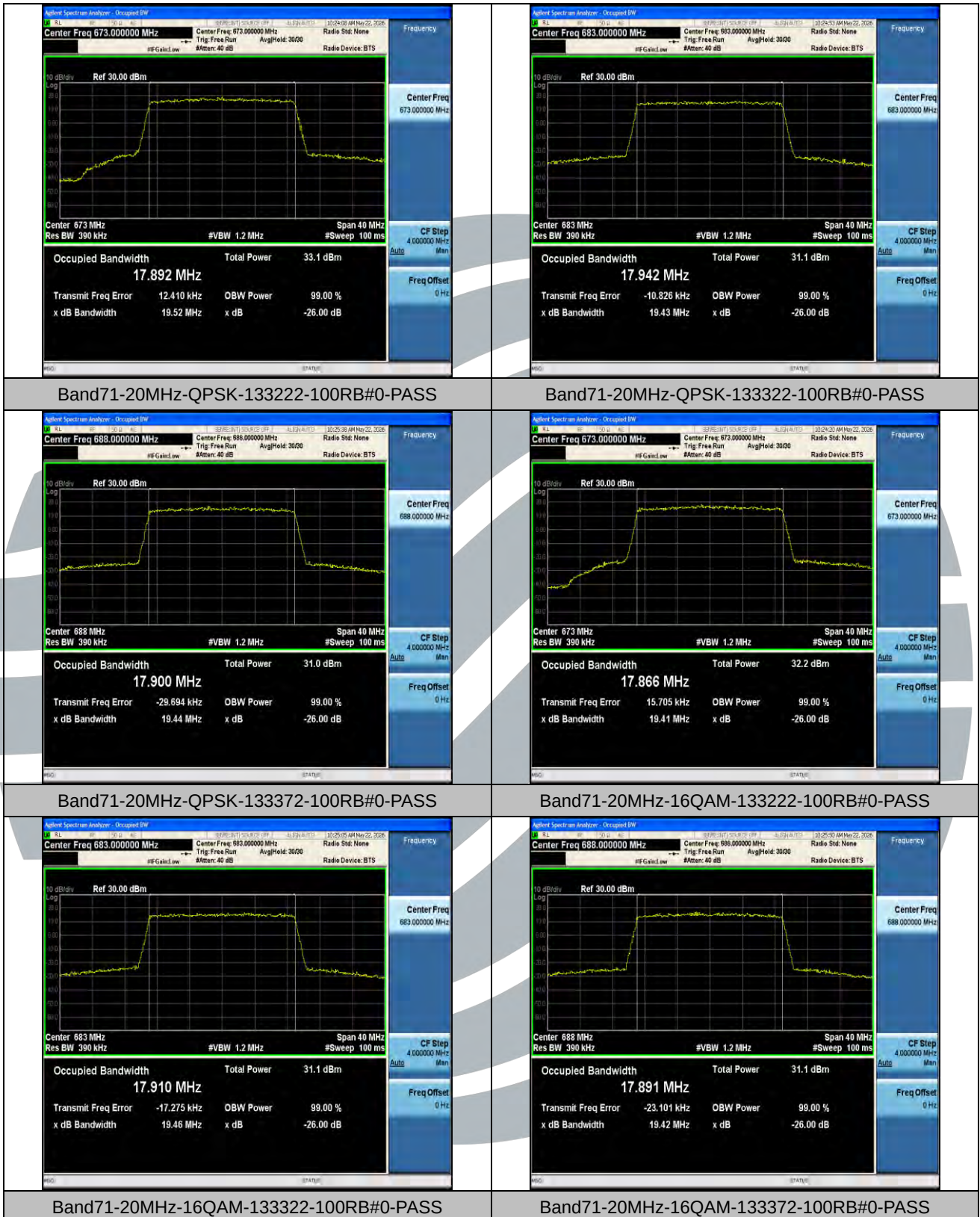
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.4976	4.972	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.5080	4.970	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5024	4.959	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.5081	4.984	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5233	5.009	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.5027	4.960	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.9655	9.797	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.9722	9.779	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.9559	9.760	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.9636	9.810	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.9815	9.811	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.9521	9.795	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.415	14.66	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.424	14.71	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.420	14.65	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.455	14.66	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.462	14.74	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.433	14.64	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.892	19.52	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.942	19.43	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.900	19.44	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.866	19.41	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.910	19.46	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.891	19.42	PASS

Test Graphs





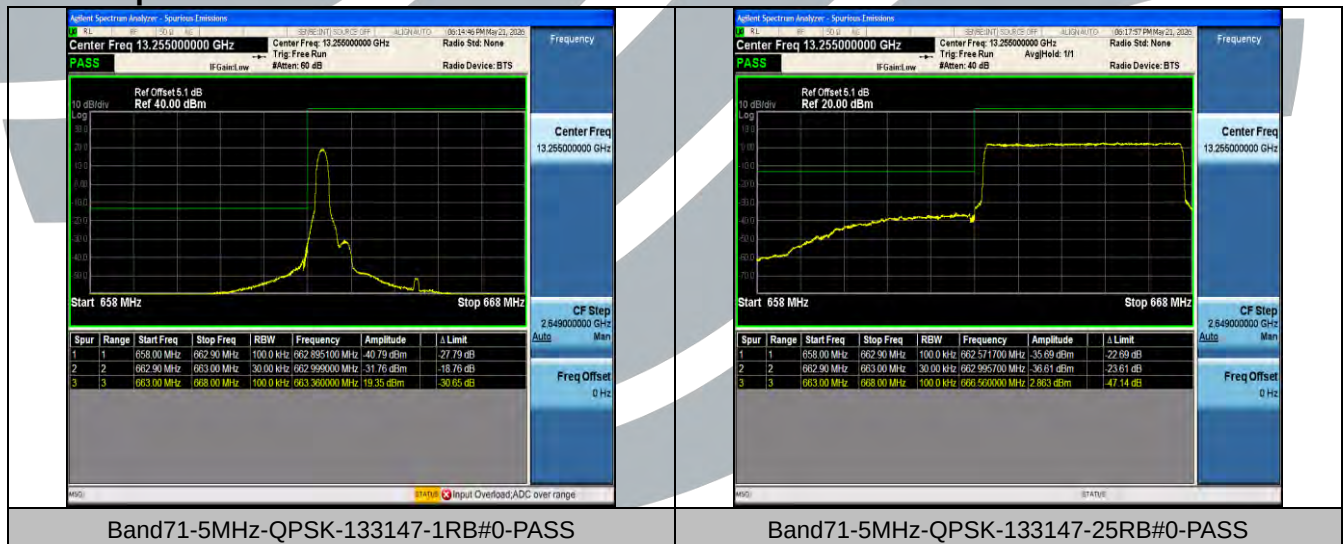


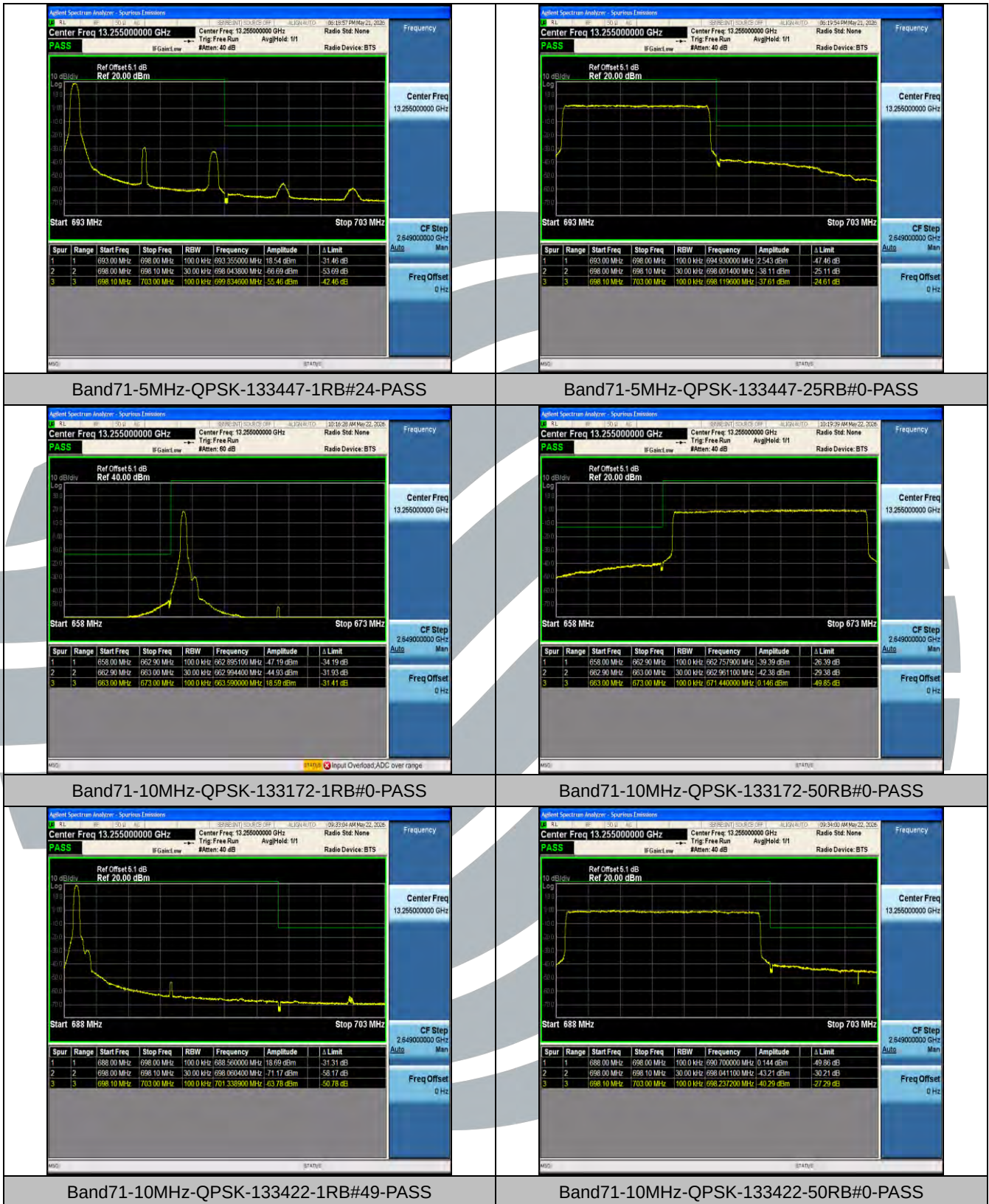


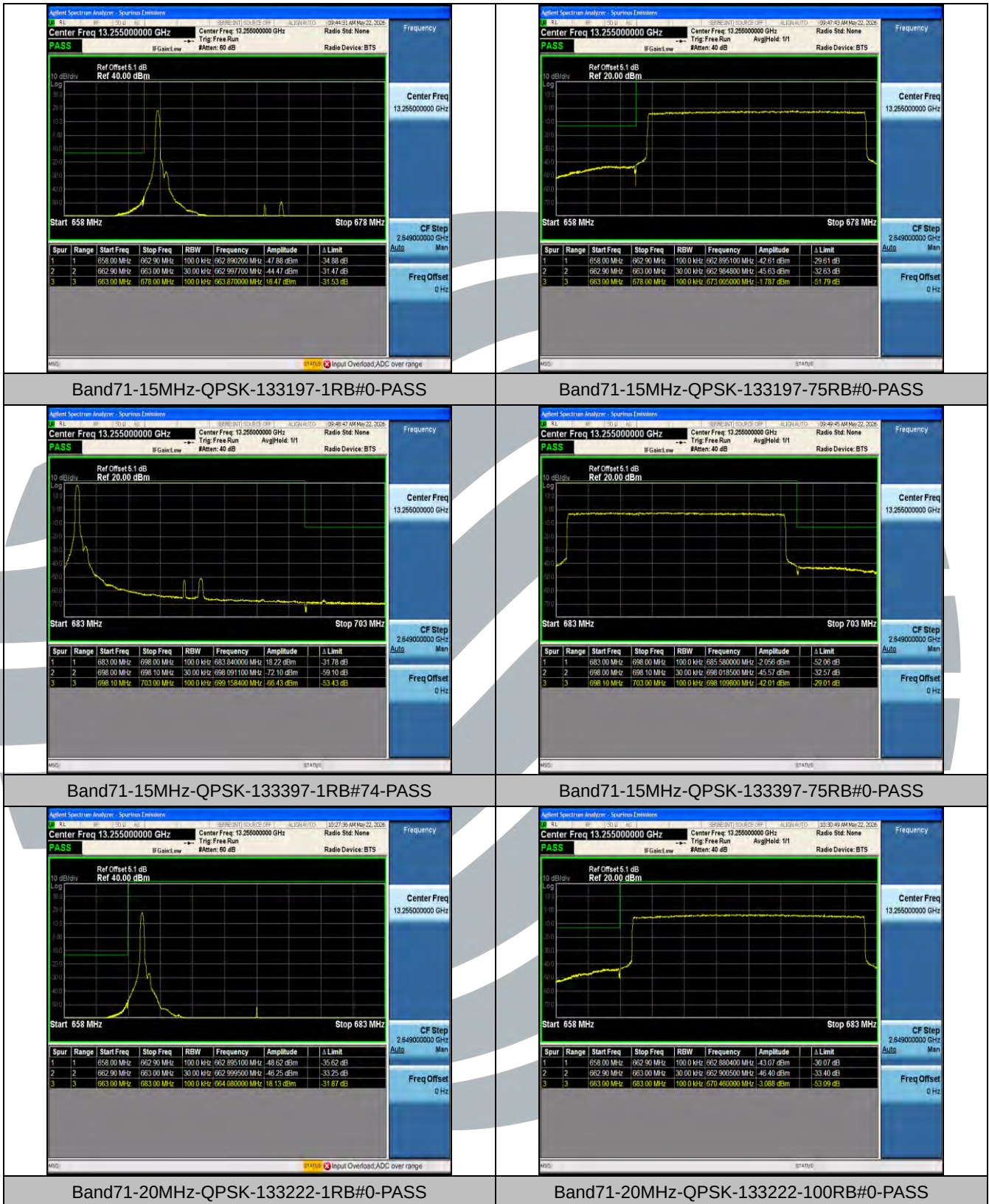
J.3 BAND EDGE Test Result

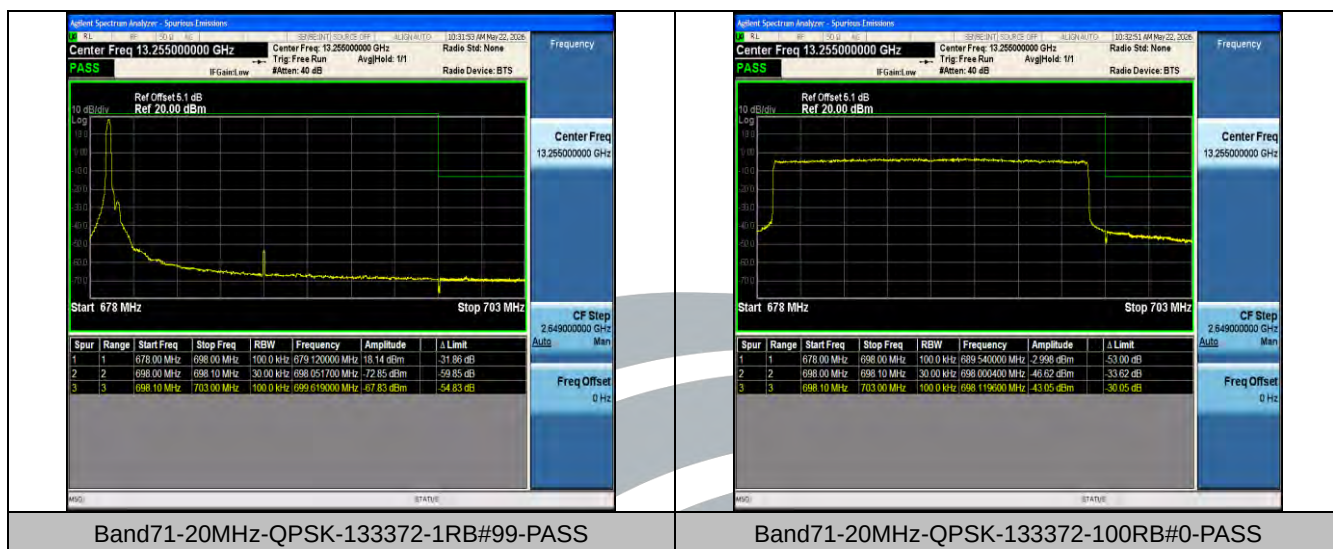
Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	-31.76	PASS
Band71	5MHz	QPSK	133147	25RB#0	-35.69	PASS
Band71	5MHz	QPSK	133447	1RB#24	-55.46	PASS
Band71	5MHz	QPSK	133447	25RB#0	-37.61	PASS
Band71	10MHz	QPSK	133172	1RB#0	-44.93	PASS
Band71	10MHz	QPSK	133172	50RB#0	-39.39	PASS
Band71	10MHz	QPSK	133422	1RB#49	-63.78	PASS
Band71	10MHz	QPSK	133422	50RB#0	-40.29	PASS
Band71	15MHz	QPSK	133197	1RB#0	-44.47	PASS
Band71	15MHz	QPSK	133197	75RB#0	-42.61	PASS
Band71	15MHz	QPSK	133397	1RB#74	-66.43	PASS
Band71	15MHz	QPSK	133397	75RB#0	-42.01	PASS
Band71	20MHz	QPSK	133222	1RB#0	-46.25	PASS
Band71	20MHz	QPSK	133222	100RB#0	-43.07	PASS
Band71	20MHz	QPSK	133372	1RB#99	-67.83	PASS
Band71	20MHz	QPSK	133372	100RB#0	-43.05	PASS

Test Graphs







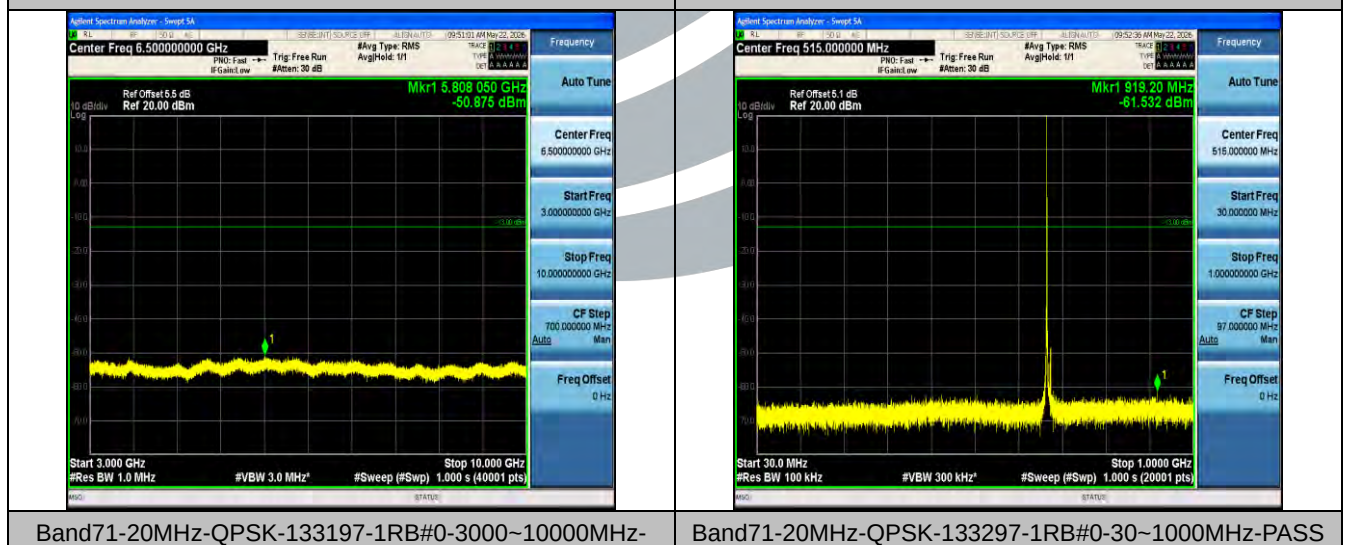
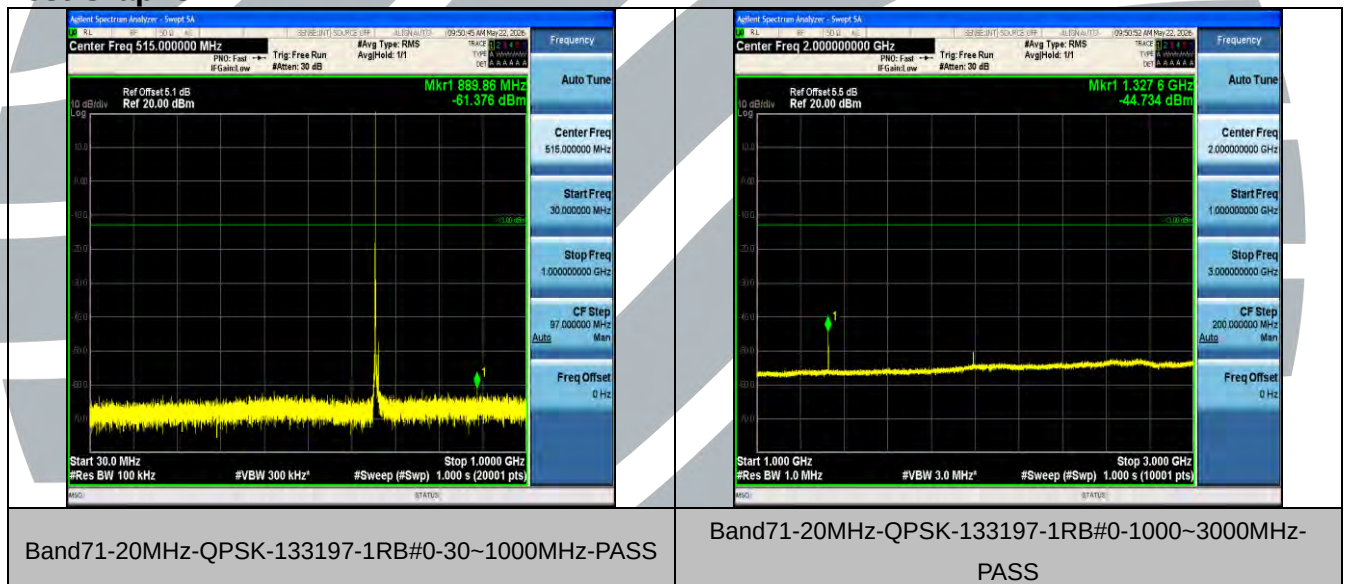


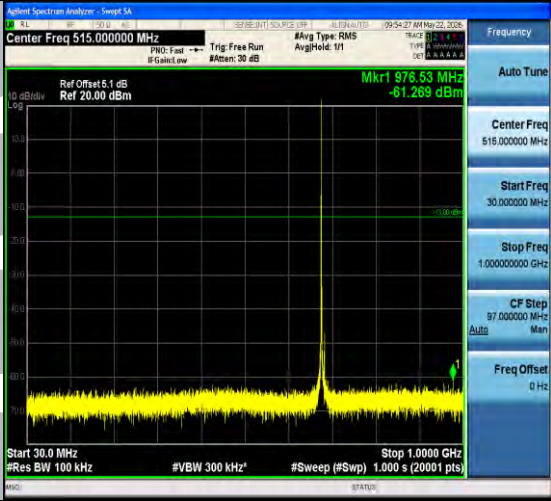
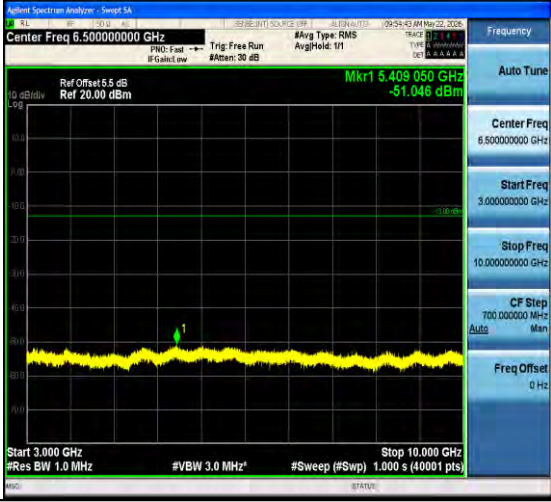
J.4 CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range (MHz)	Result (dBm)	Verdict
Band71	20MHz	QPSK	133197	1RB#0	30~1000	-61.38	PASS
Band71	20MHz	QPSK	133197	1RB#0	1000~3000	-44.73	PASS
Band71	20MHz	QPSK	133197	1RB#0	3000~10000	-50.88	PASS
Band71	20MHz	QPSK	133297	1RB#0	30~1000	-61.53	PASS
Band71	20MHz	QPSK	133297	1RB#0	1000~3000	-45.38	PASS
Band71	20MHz	QPSK	133297	1RB#0	3000~10000	-50.94	PASS
Band71	20MHz	QPSK	133397	1RB#0	30~1000	-61.27	PASS
Band71	20MHz	QPSK	133397	1RB#0	1000~3000	-44.68	PASS
Band71	20MHz	QPSK	133397	1RB#0	3000~10000	-51.05	PASS

Test Graphs



PASS 	
Band71-20MHz-QPSK-133297-1RB#0-1000~3000MHz- PASS	Band71-20MHz-QPSK-133297-1RB#0-3000~10000MHz- PASS
	
Band71-20MHz-QPSK-133397-1RB#0-30~1000MHz-PASS	Band71-20MHz-QPSK-133397-1RB#0-1000~3000MHz- PASS
	N/A
Band71-20MHz-QPSK-133397-1RB#0-3000~10000MHz- PASS	

J.5 FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-2.80	-0.004100	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-3.30	-0.004832	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-2.43	-0.003558	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temp. (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-3.16	-0.004627	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-3.09	-0.004524	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-2.66	-0.003895	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-2.43	-0.003558	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-2.59	-0.003792	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-3.10	-0.004539	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-3.12	-0.004568	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-2.93	-0.004290	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-3.13	-0.004583	±2.5	PASS