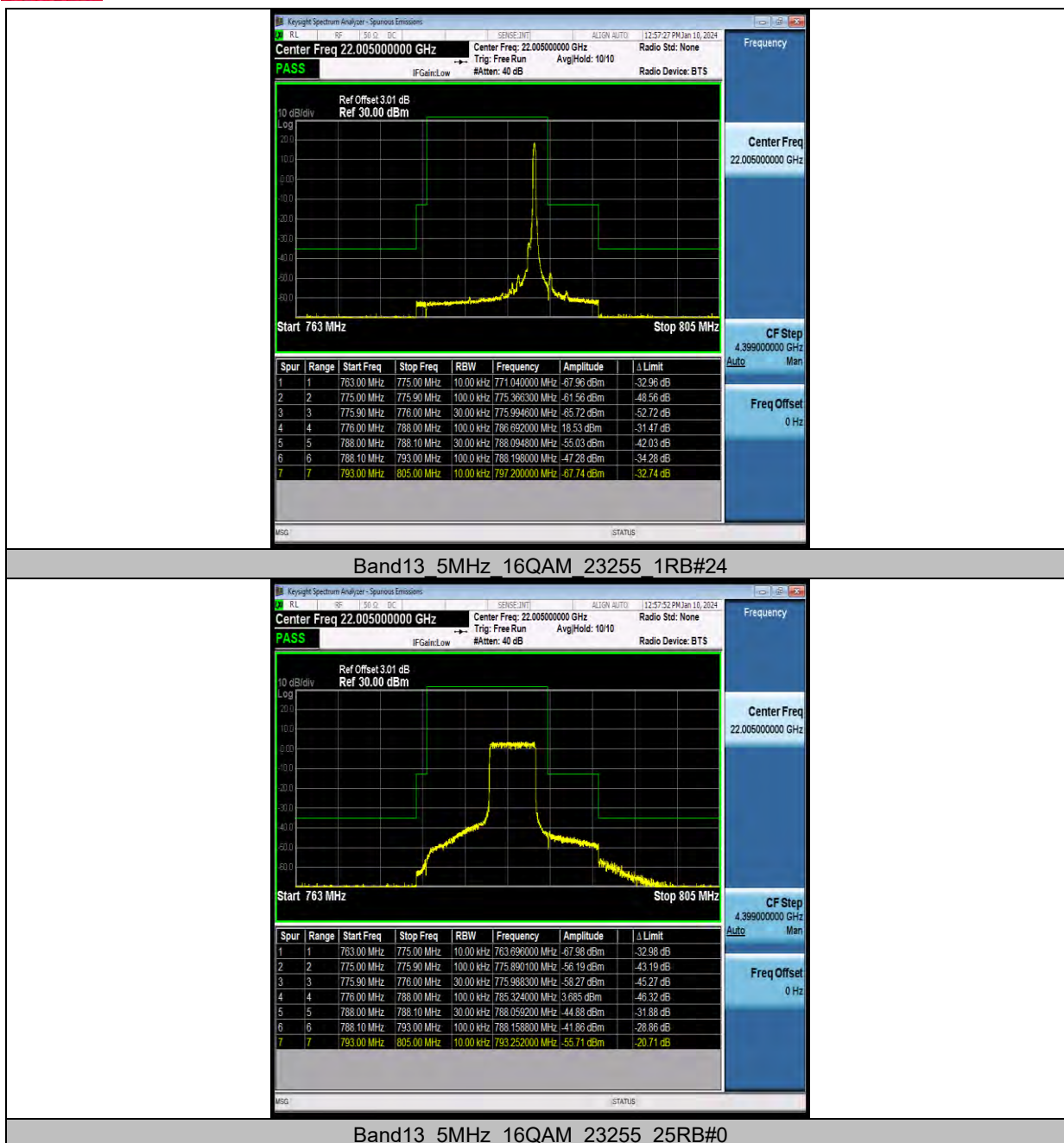
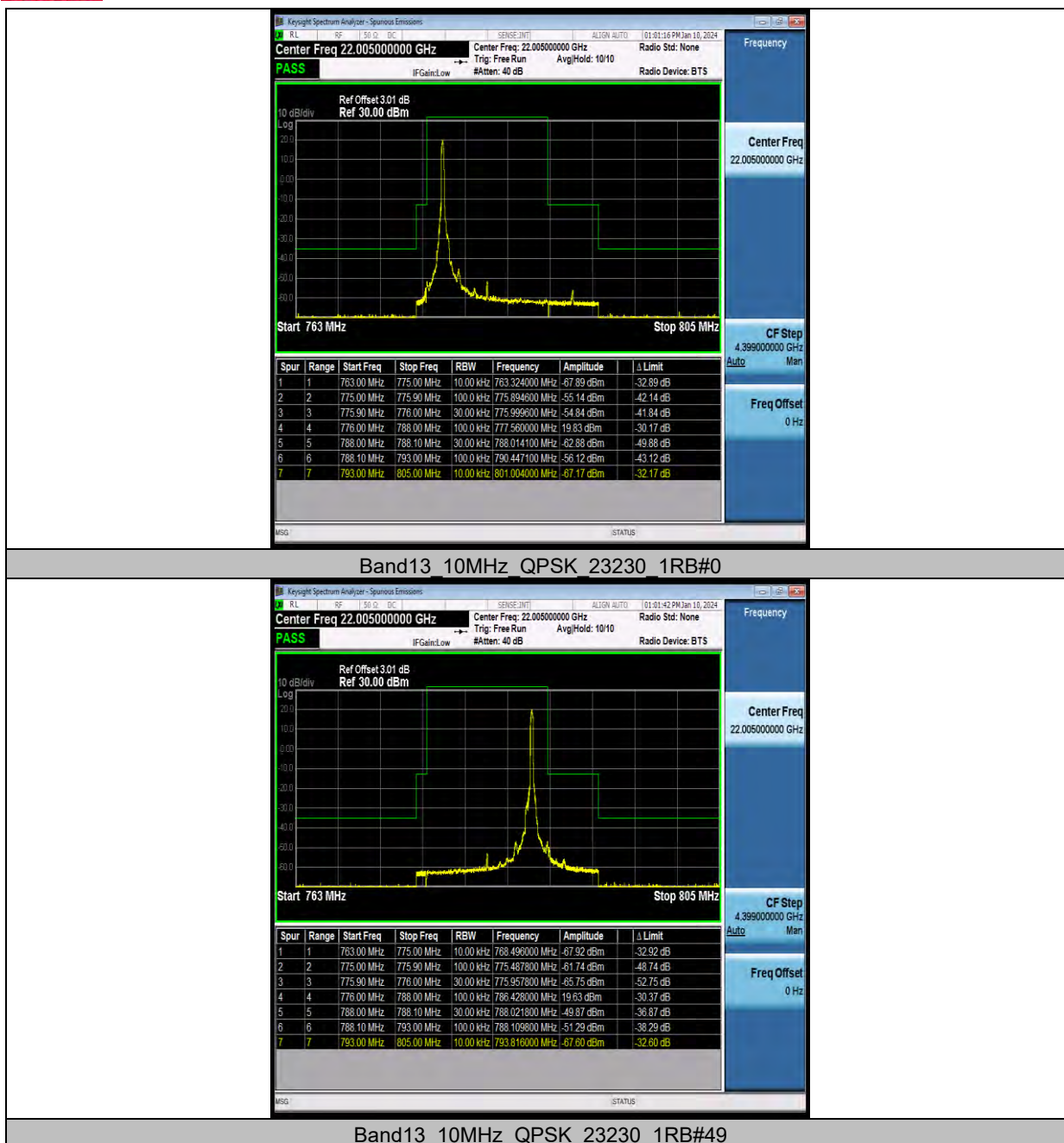
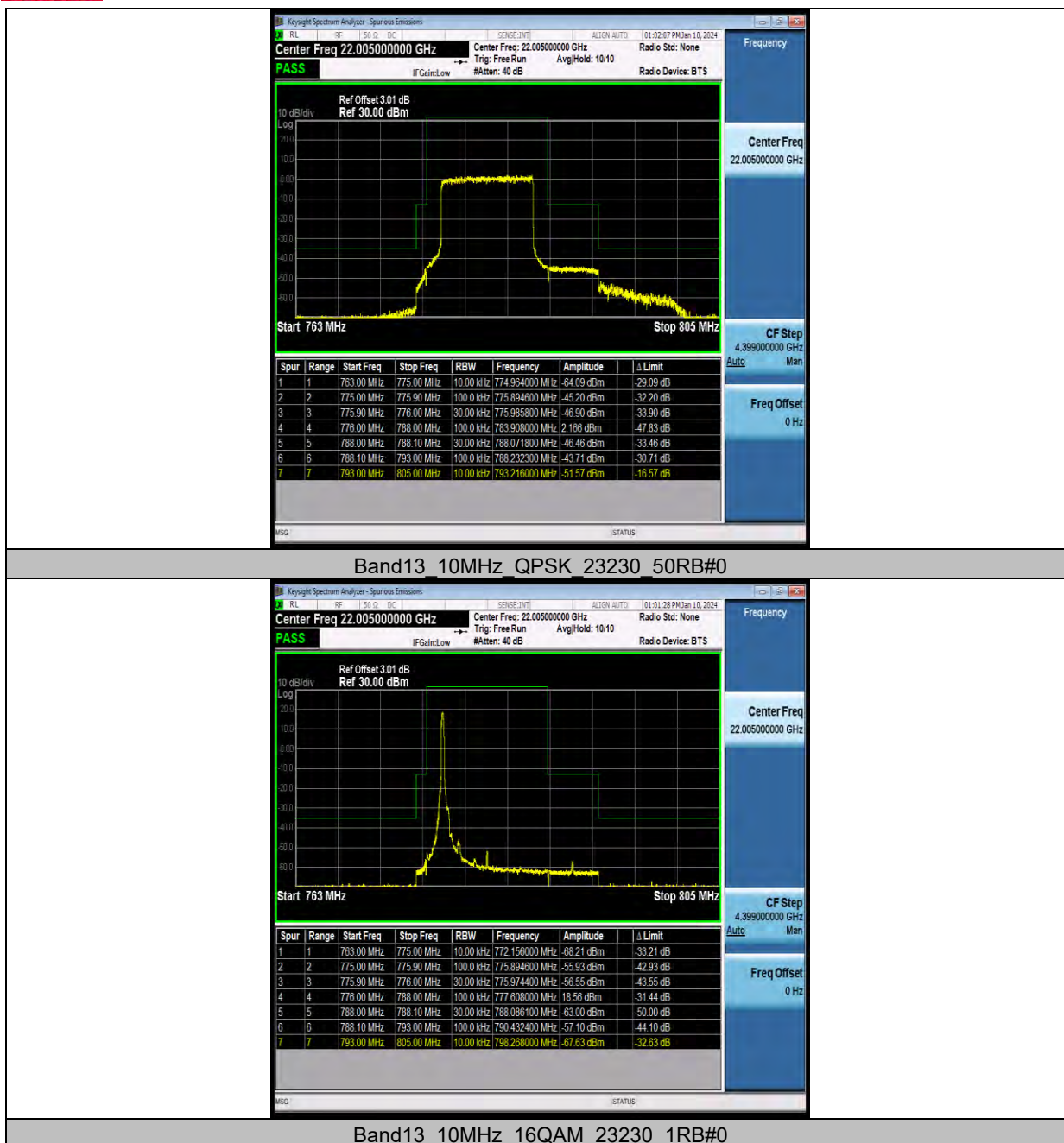
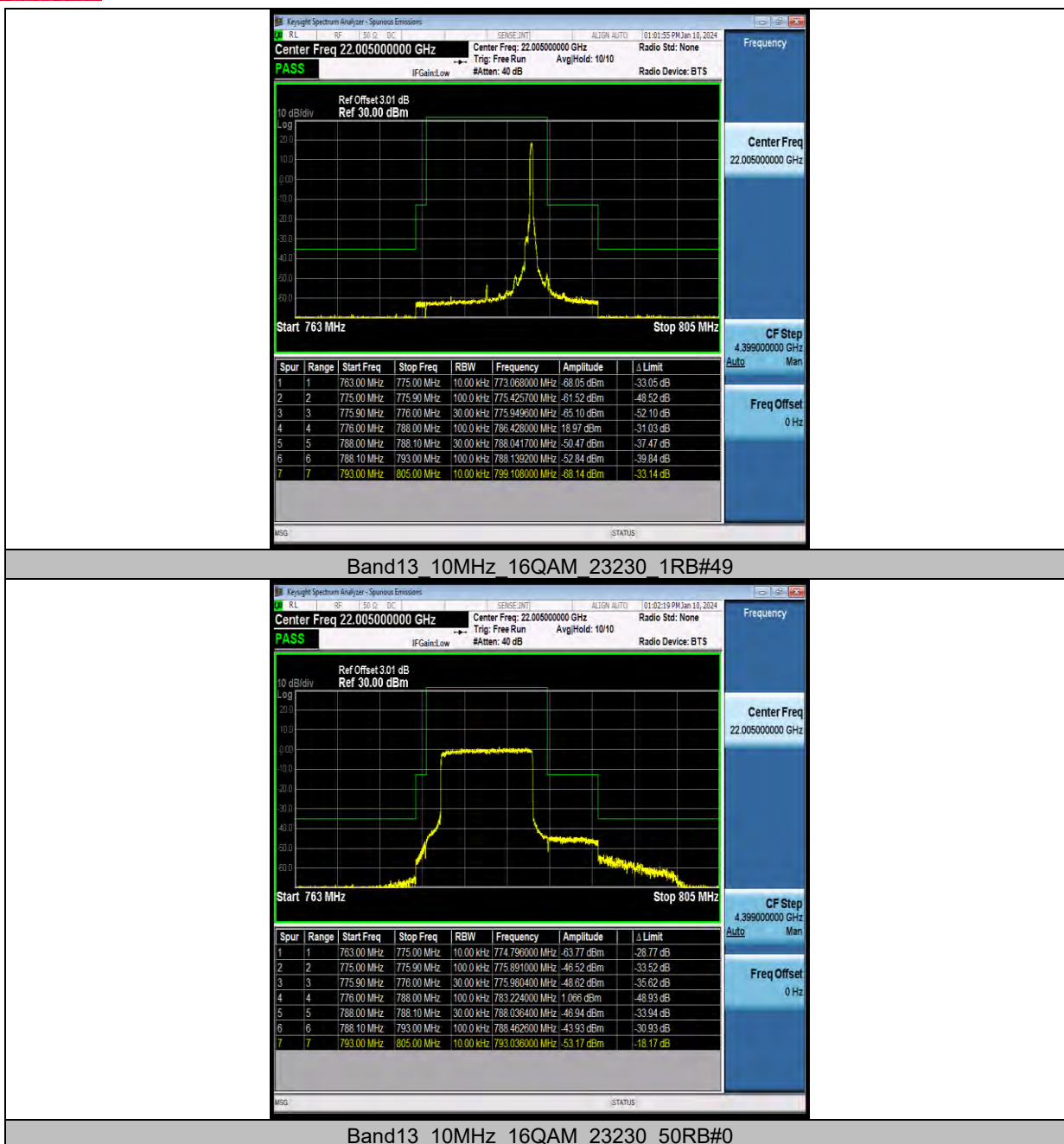












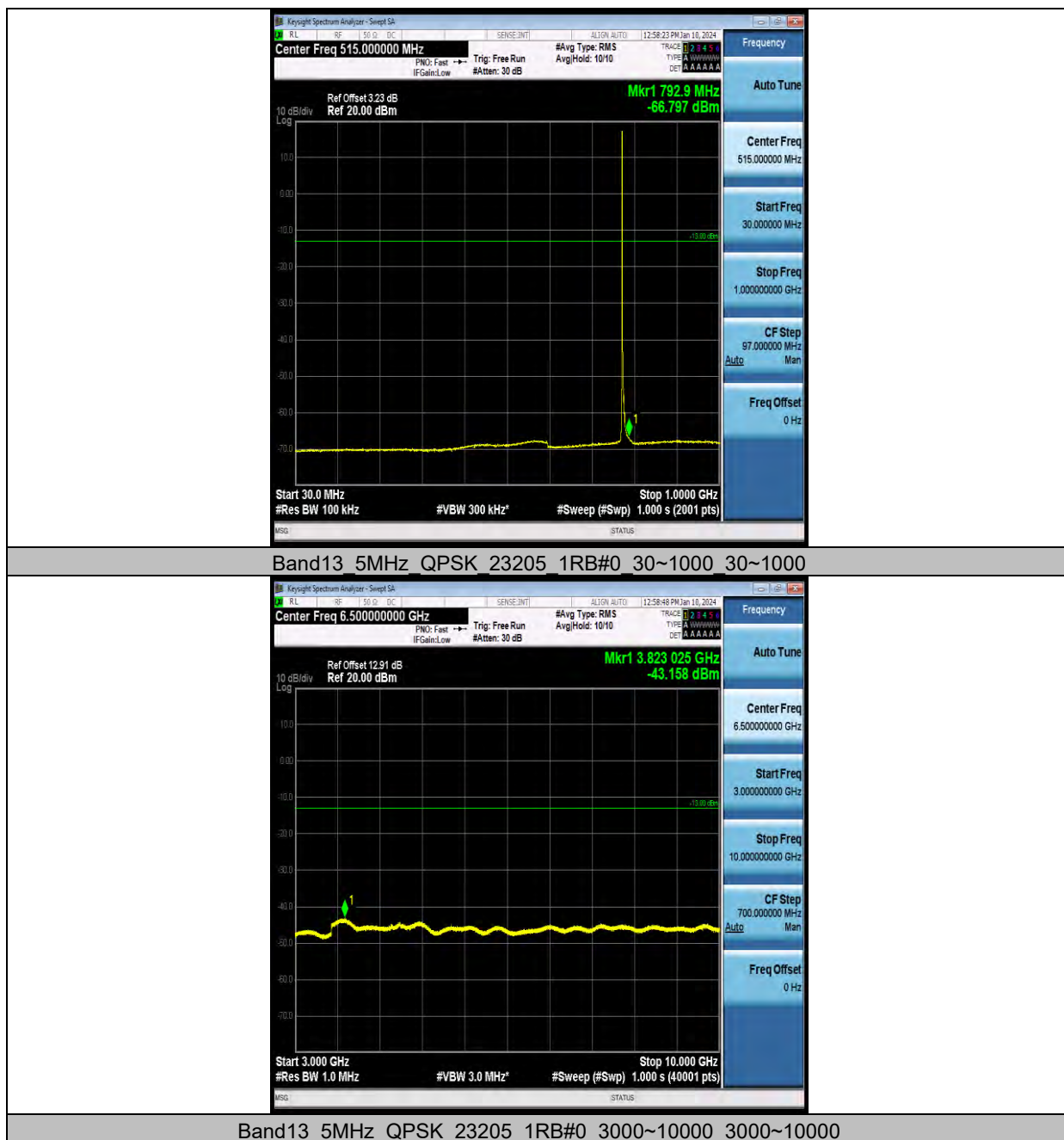
Test Report No.: W7L-P23120020RF03

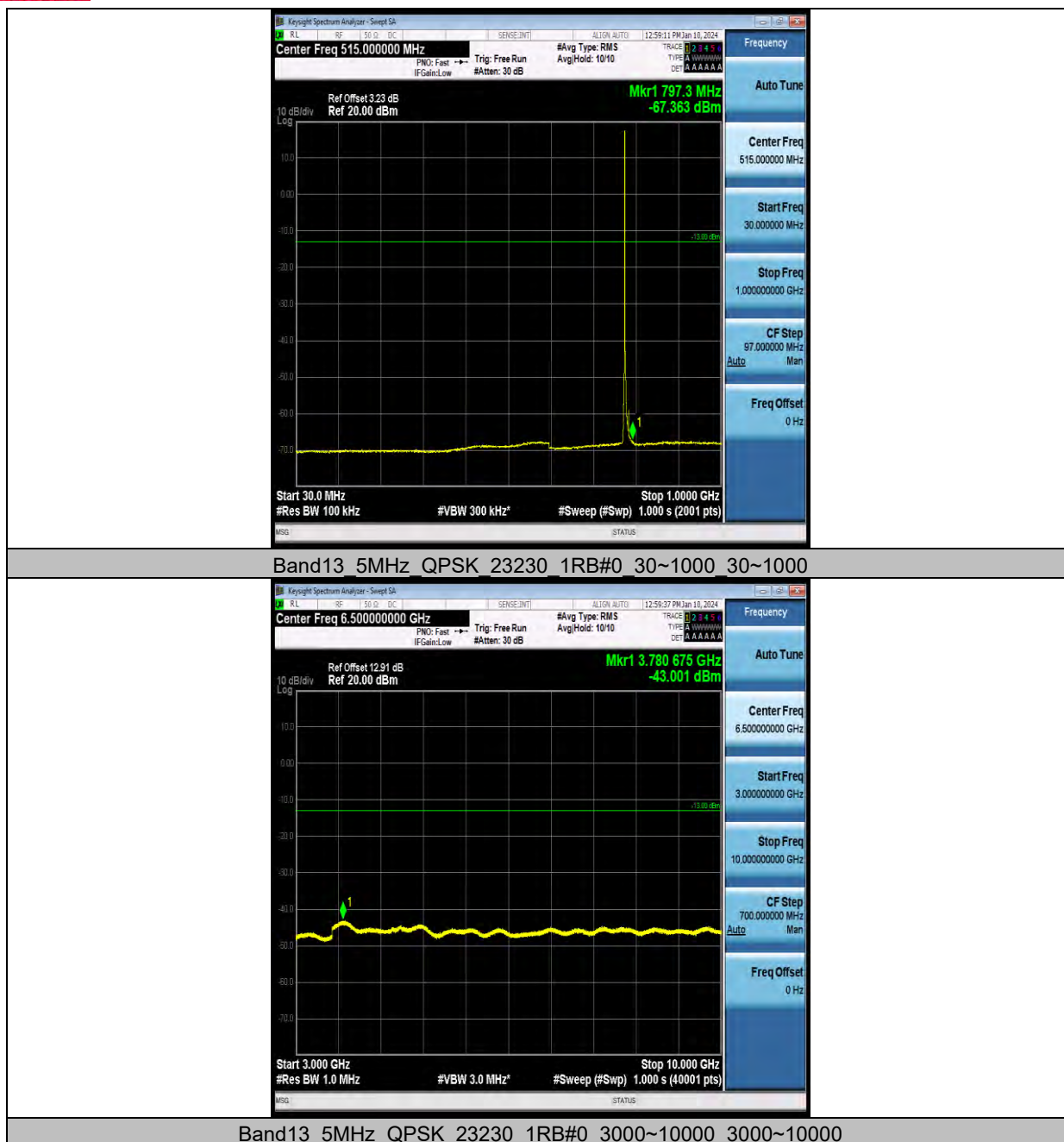
CONDUCTED SPURIOUS EMISSION

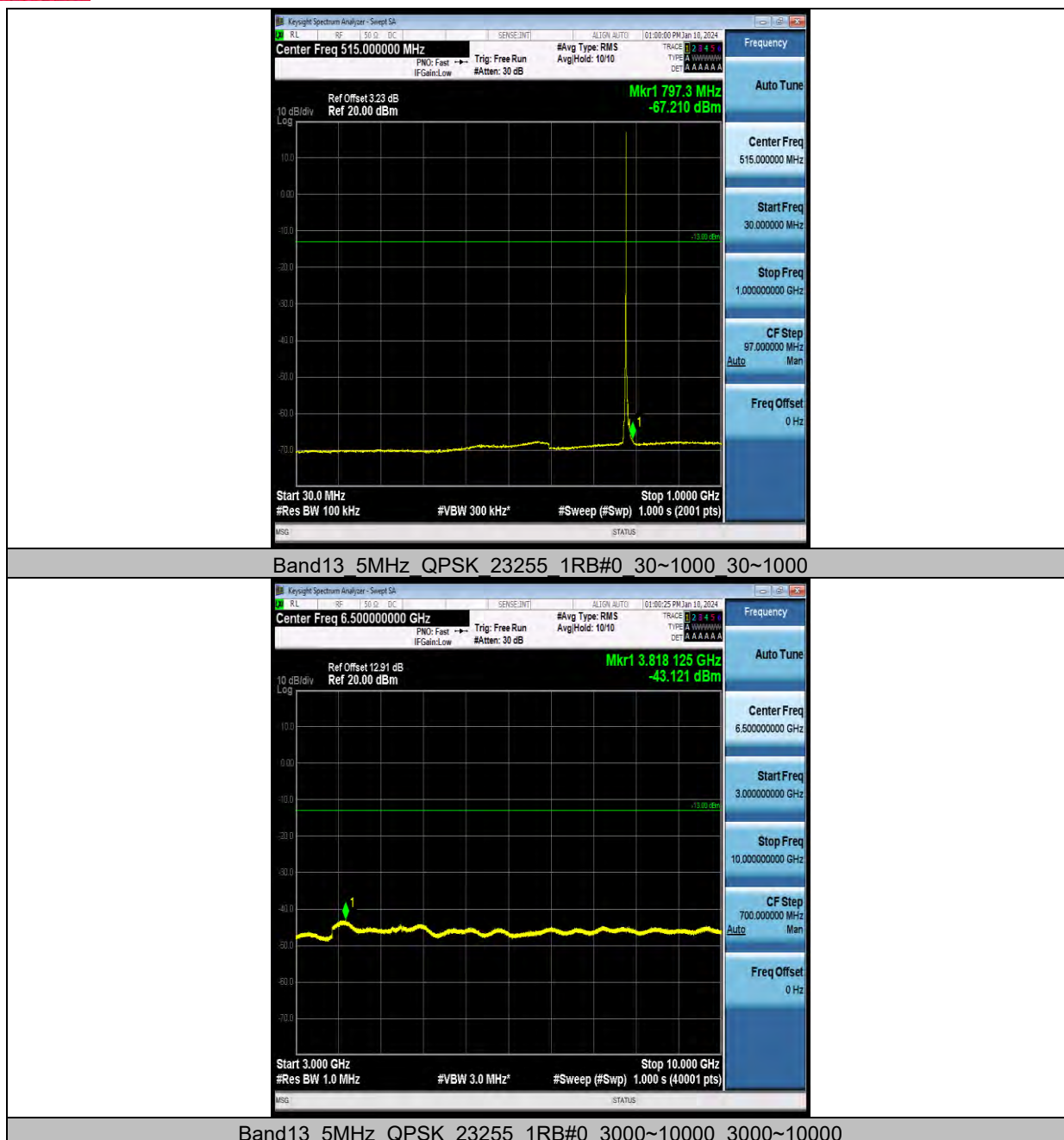
Test Result

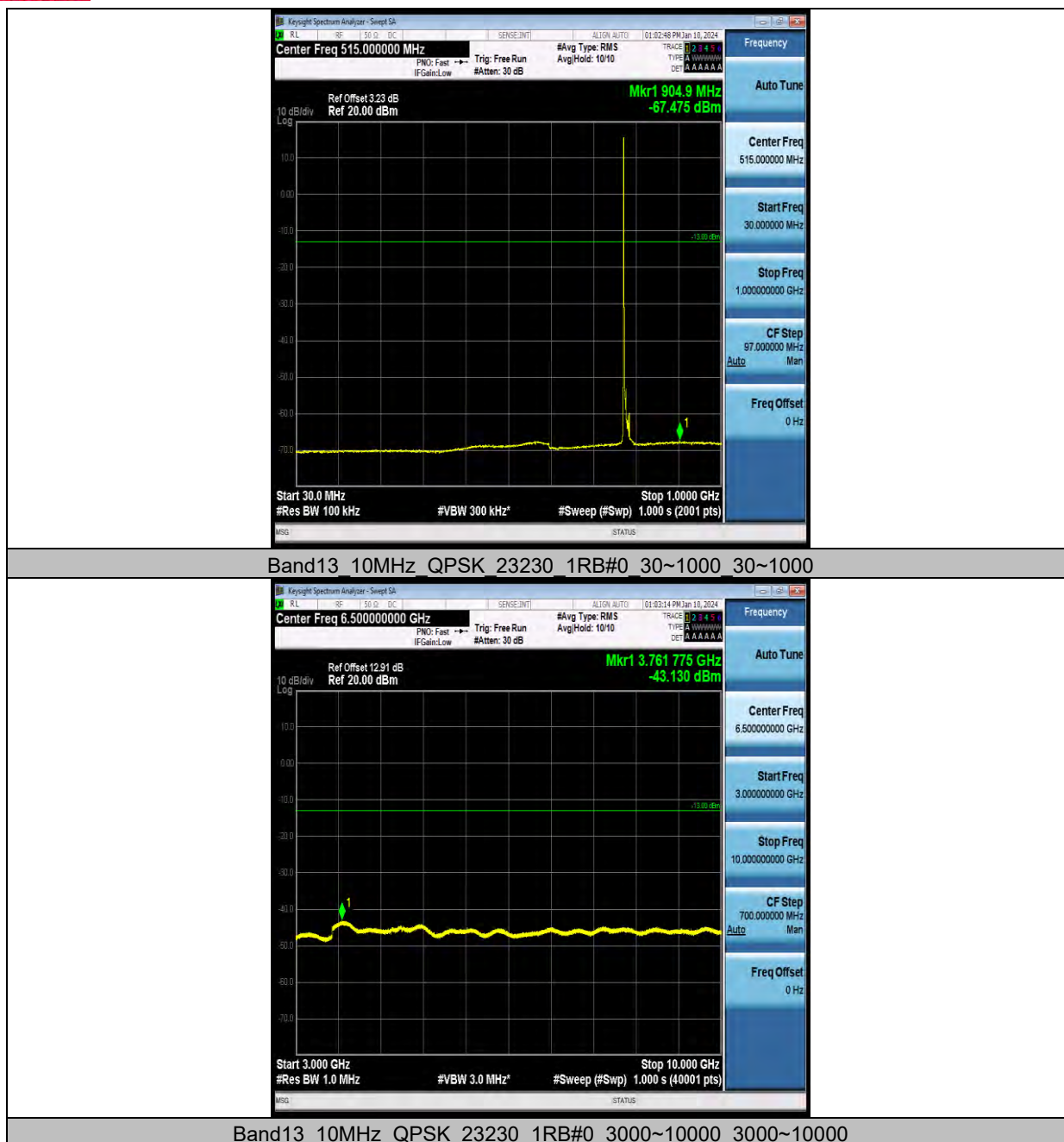
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-66.80	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-43.16	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-67.36	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-43.00	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-67.21	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-43.12	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-67.48	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-43.13	PASS

Test Graphs









FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	3.89	0.004974	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.99	-0.002545	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	3.59	0.004591	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-4.22	-0.005396	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	2.99	0.003824	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-2.70	-0.003453	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	1.60	0.002046	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-3.43	-0.004386	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-3.08	-0.003939	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	2.92	0.003734	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-5.32	-0.006803	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-1.17	-0.001496	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.90	-0.003708	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.87	-0.002391	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	3.88	0.004962	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-2.46	-0.003146	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-3.79	-0.004847	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	-3.08	-0.003939	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-2.13	-0.002724	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	2.02	0.002583	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-2.76	-0.003529	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	2.20	0.002813	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-2.17	-0.002775	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-2.63	-0.003363	±2.5	PASS



Test Report No.: W7L-P23120020RF03

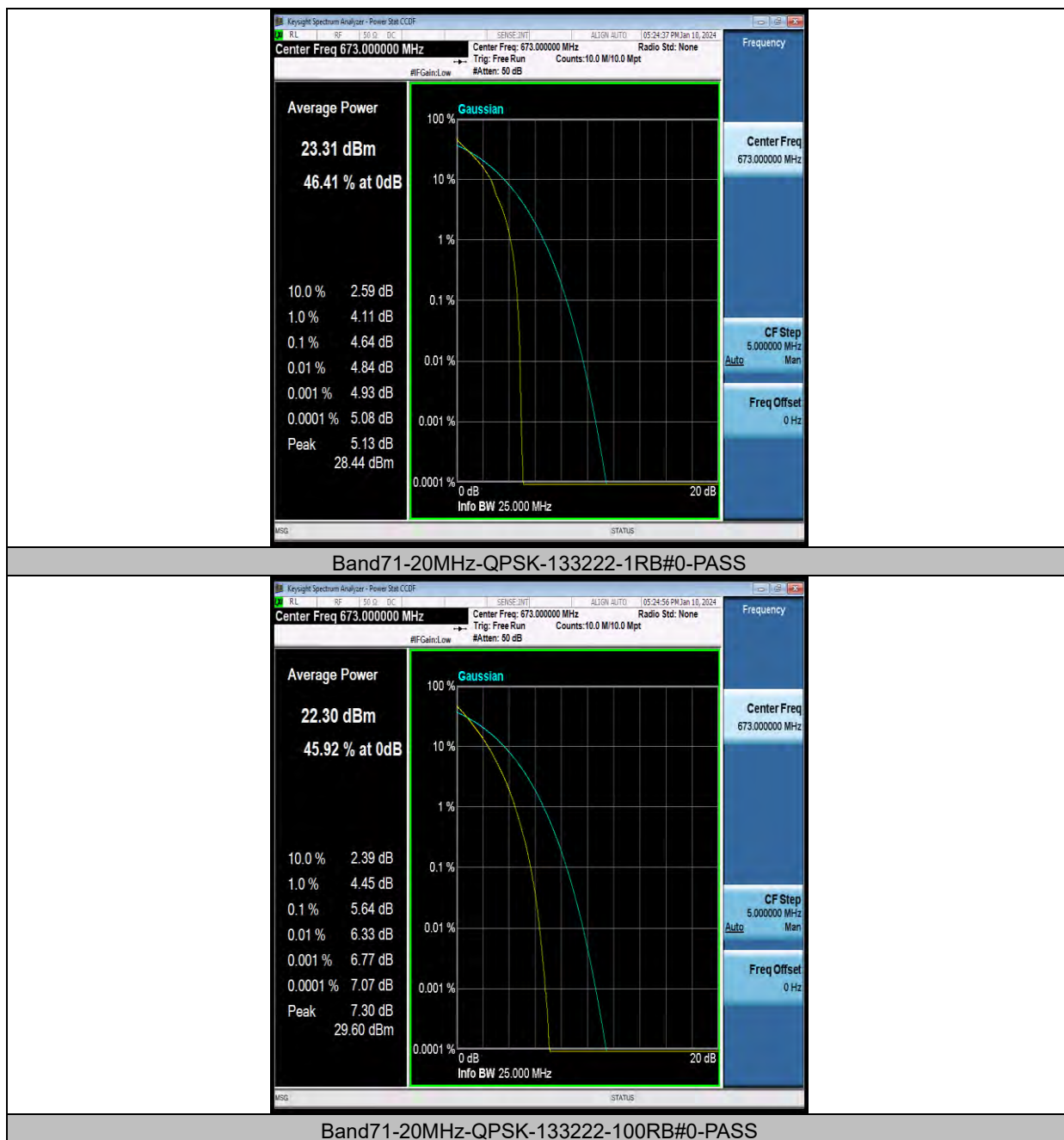
LTE BAND71

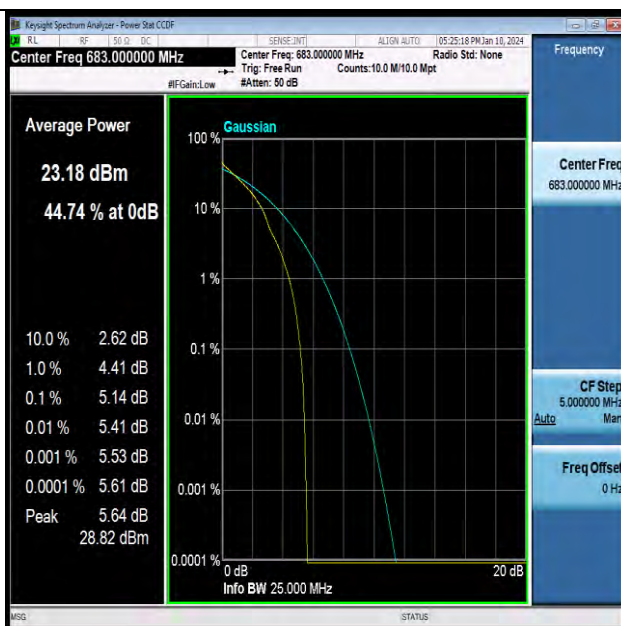
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

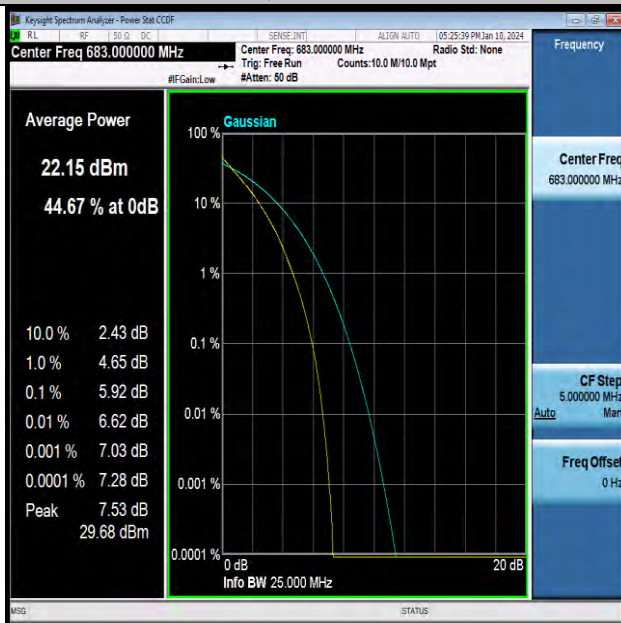
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	1RB#0	4.64	13	PASS
Band71	20MHz	QPSK	133222	100RB#0	5.64	13	PASS
Band71	20MHz	QPSK	133322	1RB#0	5.14	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.92	13	PASS
Band71	20MHz	QPSK	133372	1RB#0	5.61	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.81	13	PASS
Band71	20MHz	16QAM	133222	1RB#0	5.51	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.48	13	PASS
Band71	20MHz	16QAM	133322	1RB#0	6.07	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.67	13	PASS
Band71	20MHz	16QAM	133372	1RB#0	6.45	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.60	13	PASS

Test Graphs

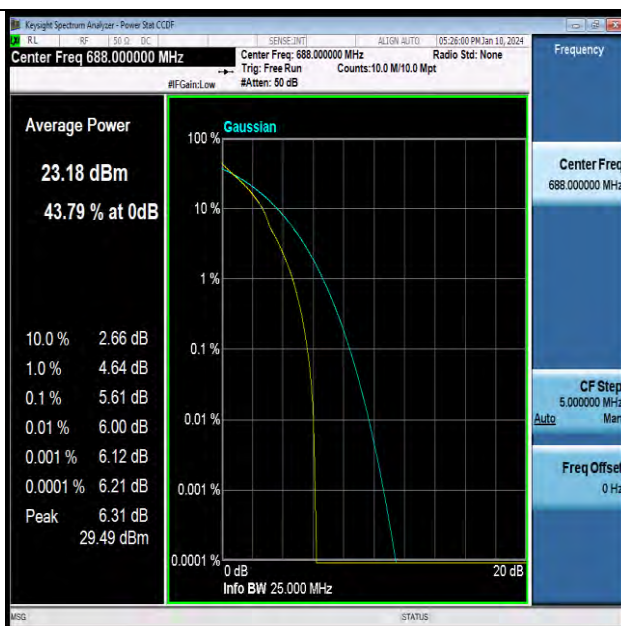




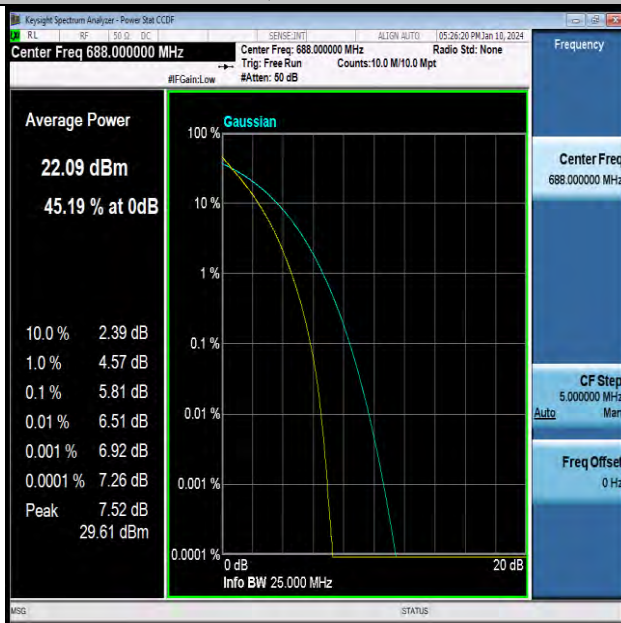
Band71-20MHz-QPSK-133322-1RB#0-PASS



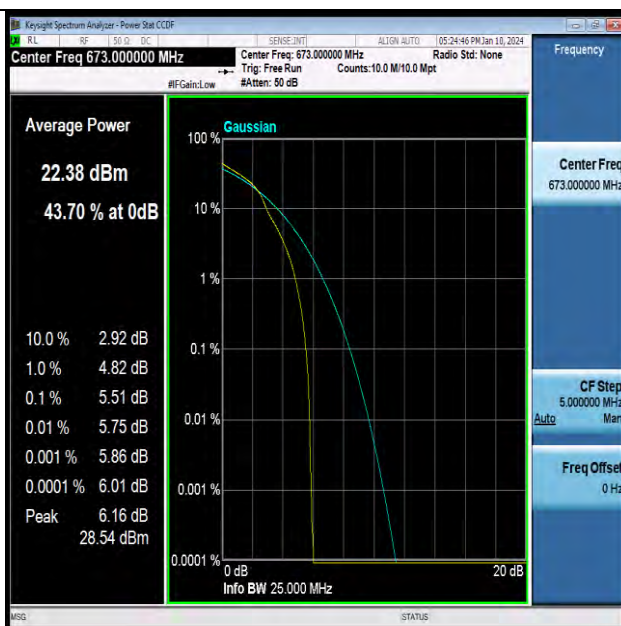
Band71-20MHz-QPSK-133322-100RB#0-PASS



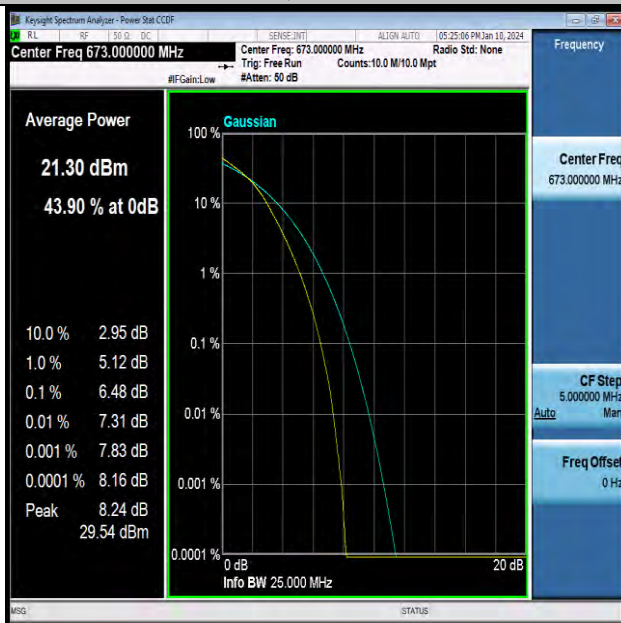
Band71-20MHz-QPSK-133372-1RB#0-PASS



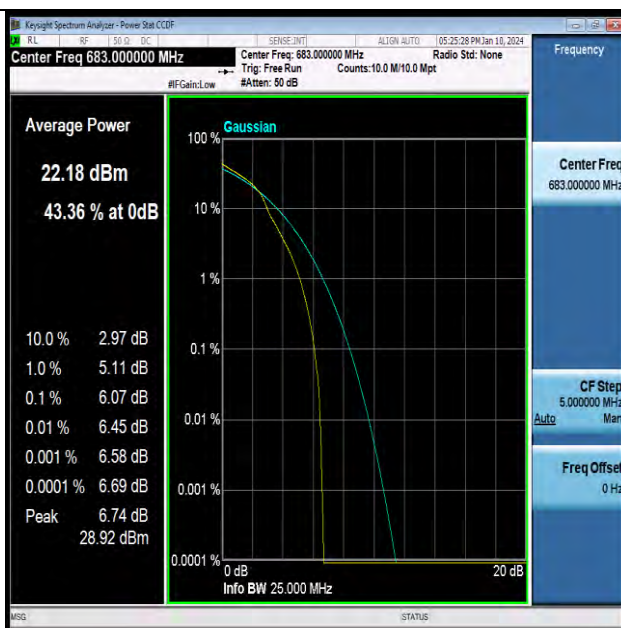
Band71-20MHz-QPSK-133372-100RB#0-PASS



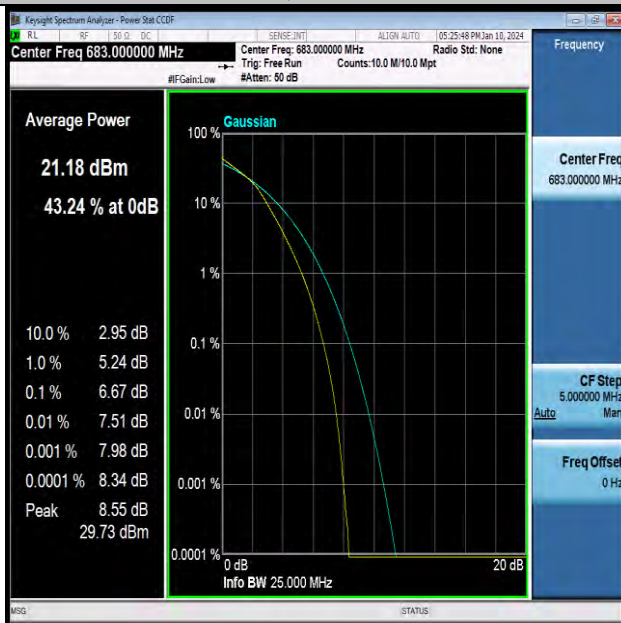
Band71-20MHz-16QAM-133222-1RB#0-PASS



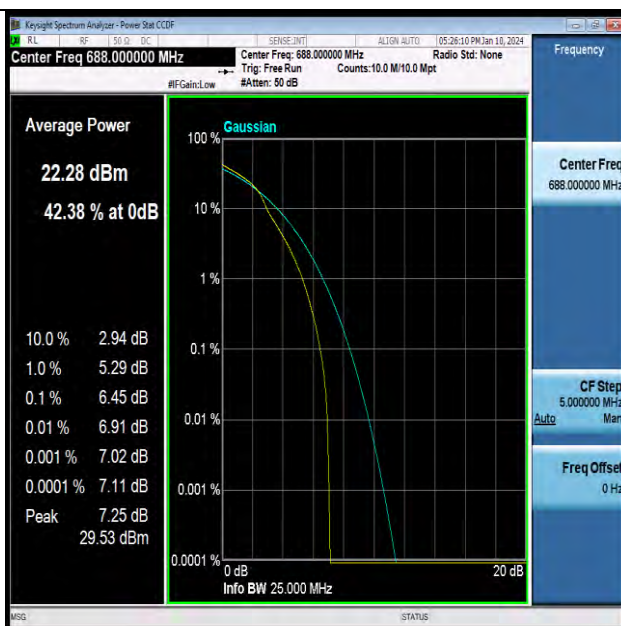
Band71-20MHz-16QAM-133222-100RB#0-PASS



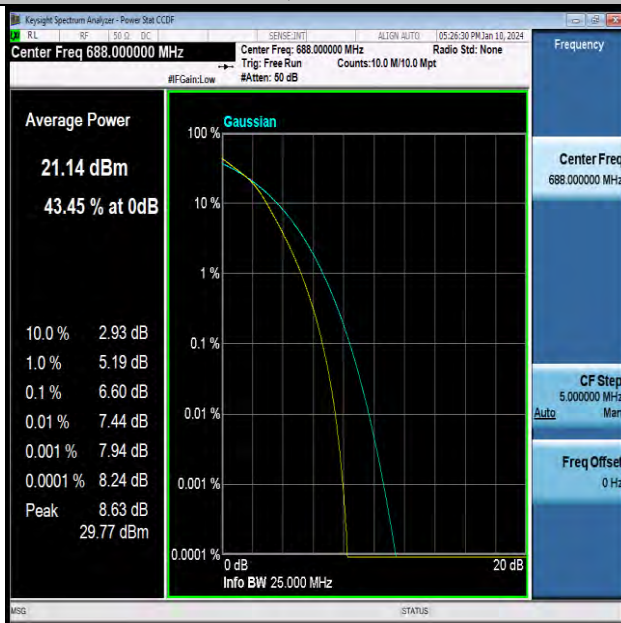
Band71-20MHz-16QAM-133322-1RB#0-PASS



Band71-20MHz-16QAM-133322-100RB#0-PASS



Band71-20MHz-16QAM-133372-1RB#0-PASS



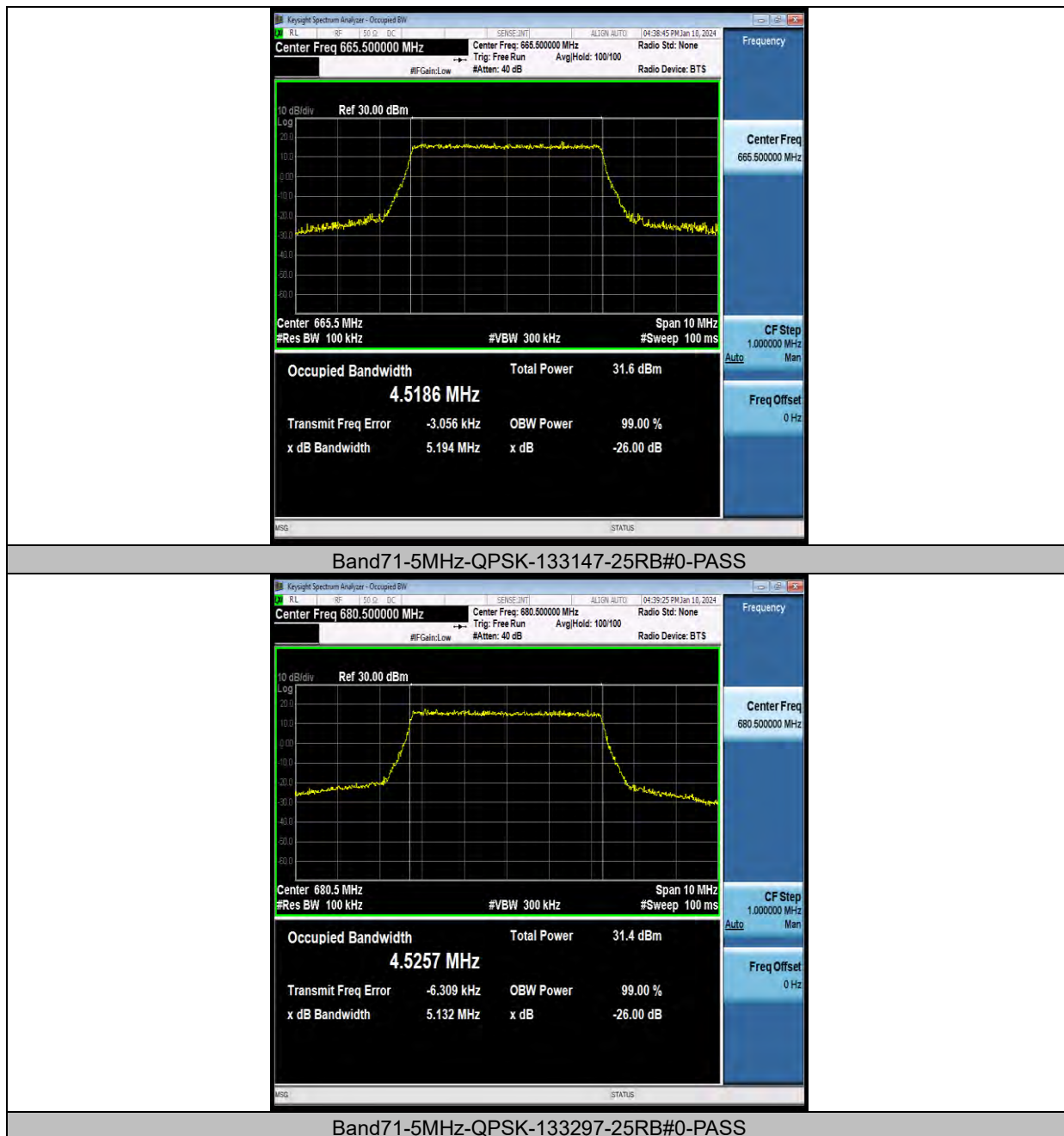
Band71-20MHz-16QAM-133372-100RB#0-PASS

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

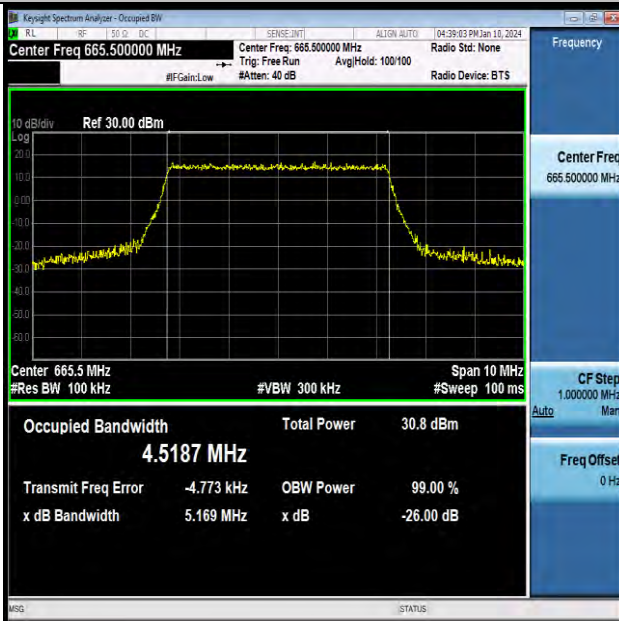
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.5186	5.194	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.5257	5.132	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.5148	5.192	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.5187	5.169	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.5214	5.137	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.5149	5.202	PASS
Band71	10MHz	QPSK	133172	50RB#0	9.0163	10.18	PASS
Band71	10MHz	QPSK	133297	50RB#0	9.0208	10.12	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.9645	10.06	PASS
Band71	10MHz	16QAM	133172	50RB#0	9.0280	10.04	PASS
Band71	10MHz	16QAM	133297	50RB#0	9.0168	10.11	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.9931	10.00	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.477	14.92	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.511	15.09	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.462	14.96	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.481	14.76	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.534	15.03	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.469	14.99	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.969	19.68	PASS
Band71	20MHz	QPSK	133322	100RB#0	18.034	19.88	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.963	19.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.947	19.60	PASS
Band71	20MHz	16QAM	133322	100RB#0	18.006	19.82	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.965	19.73	PASS

Test Graphs





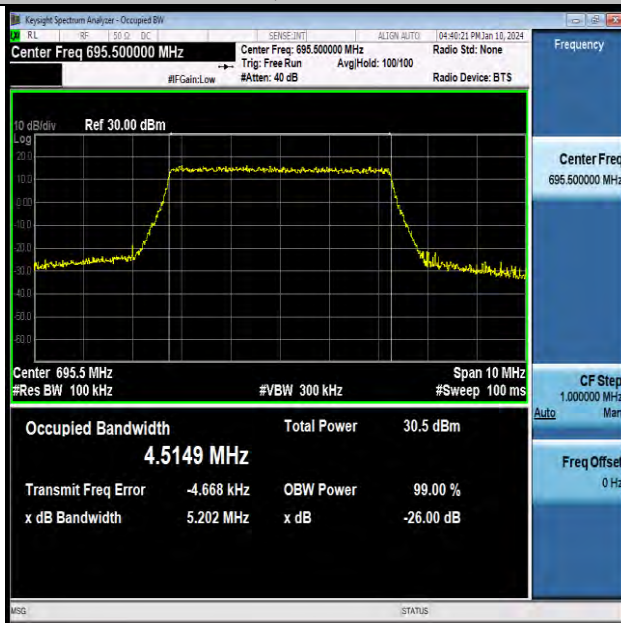
Band71-5MHz-QPSK-133447-25RB#0-PASS



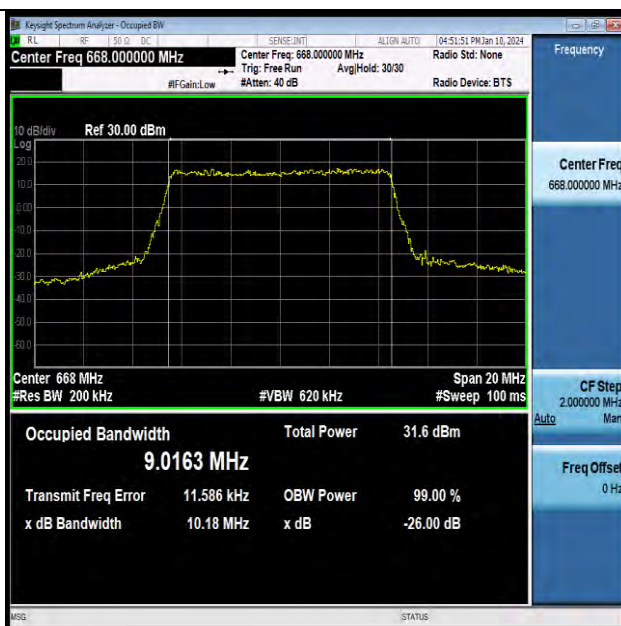
Band71-5MHz-16QAM-133147-25RB#0-PASS



Band71-5MHz-16QAM-133297-25RB#0-PASS



Band71-5MHz-16QAM-133447-25RB#0-PASS



Band71-10MHz-QPSK-133172-50RB#0-PASS



Band71-10MHz-QPSK-133297-50RB#0-PASS



Band71-10MHz-QPSK-133422-50RB#0-PASS



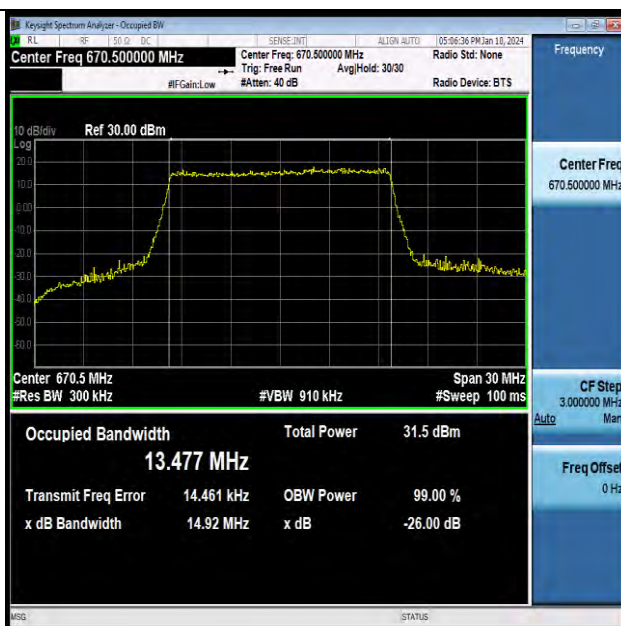
Band71-10MHz-16QAM-133172-50RB#0-PASS



Band71-10MHz-16QAM-133297-50RB#0-PASS



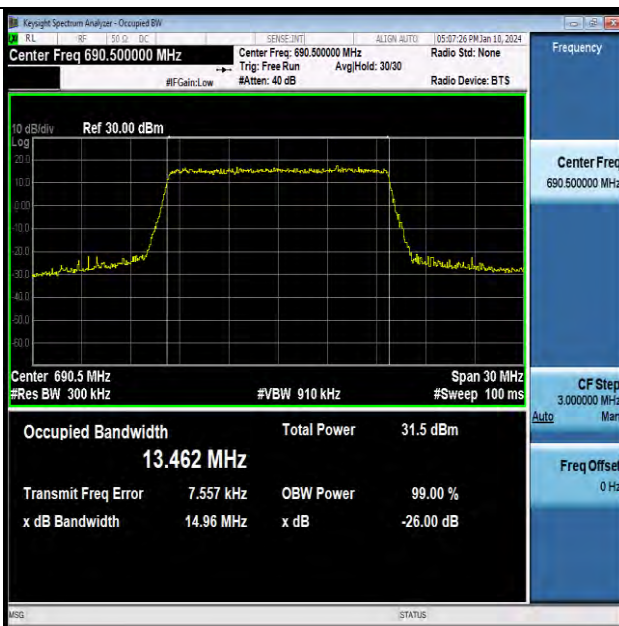
Band71-10MHz-16QAM-133422-50RB#0-PASS



Band71-15MHz-QPSK-133197-75RB#0-PASS



Band71-15MHz-QPSK-133297-75RB#0-PASS



Band71-15MHz-QPSK-133397-75RB#0-PASS



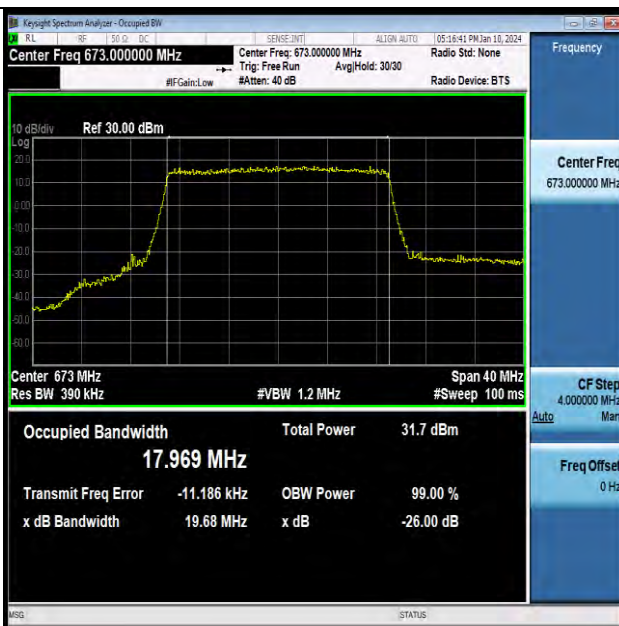
Band71-15MHz-16QAM-133197-75RB#0-PASS



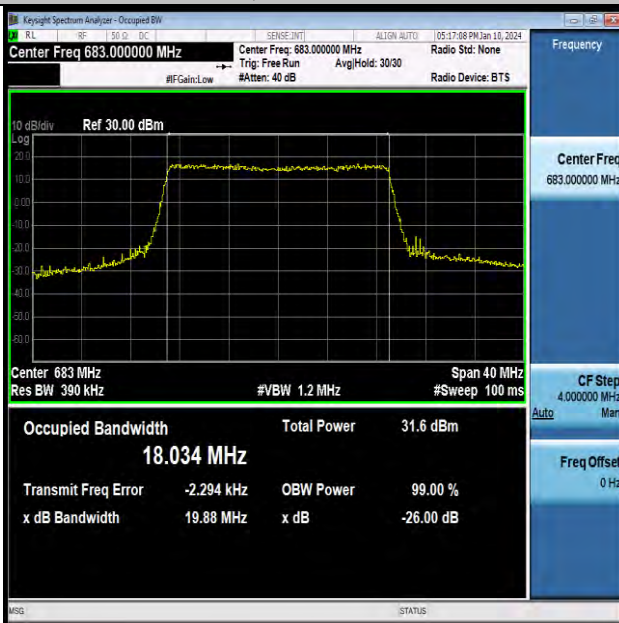
Band71-15MHz-16QAM-133297-75RB#0-PASS



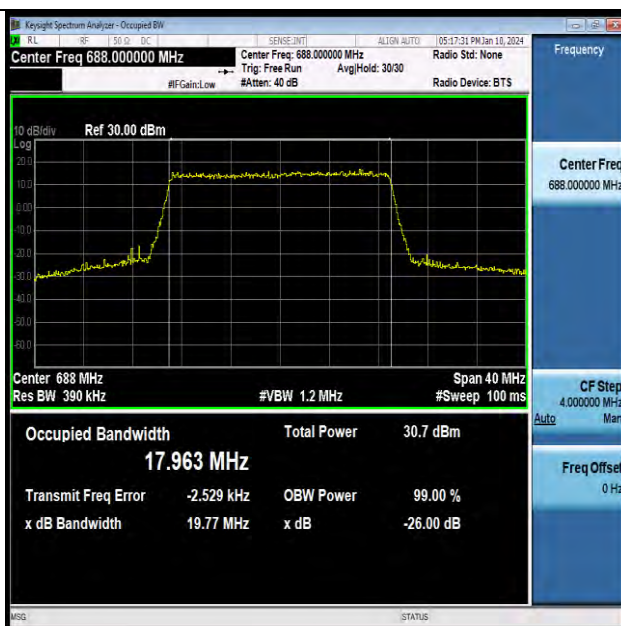
Band71-15MHz-16QAM-133397-75RB#0-PASS



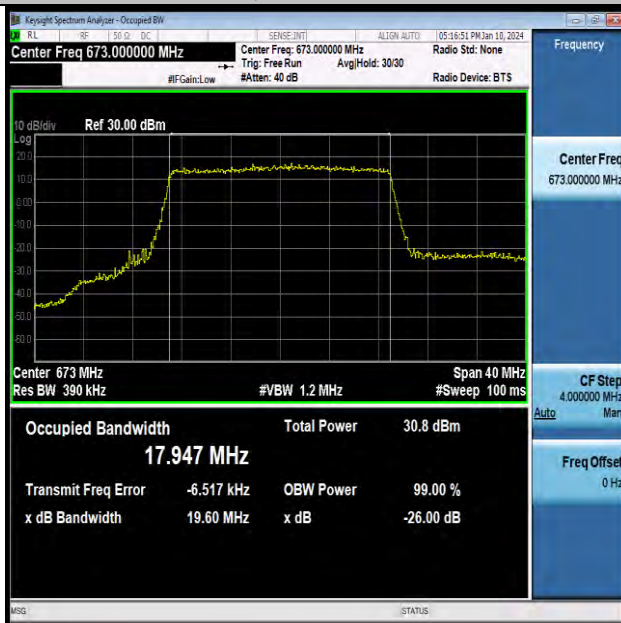
Band71-20MHz-QPSK-133222-100RB#0-PASS



Band71-20MHz-QPSK-133322-100RB#0-PASS



Band71-20MHz-QPSK-133372-100RB#0-PASS



Band71-20MHz-16QAM-133222-100RB#0-PASS



Band71-20MHz-16QAM-133322-100RB#0-PASS



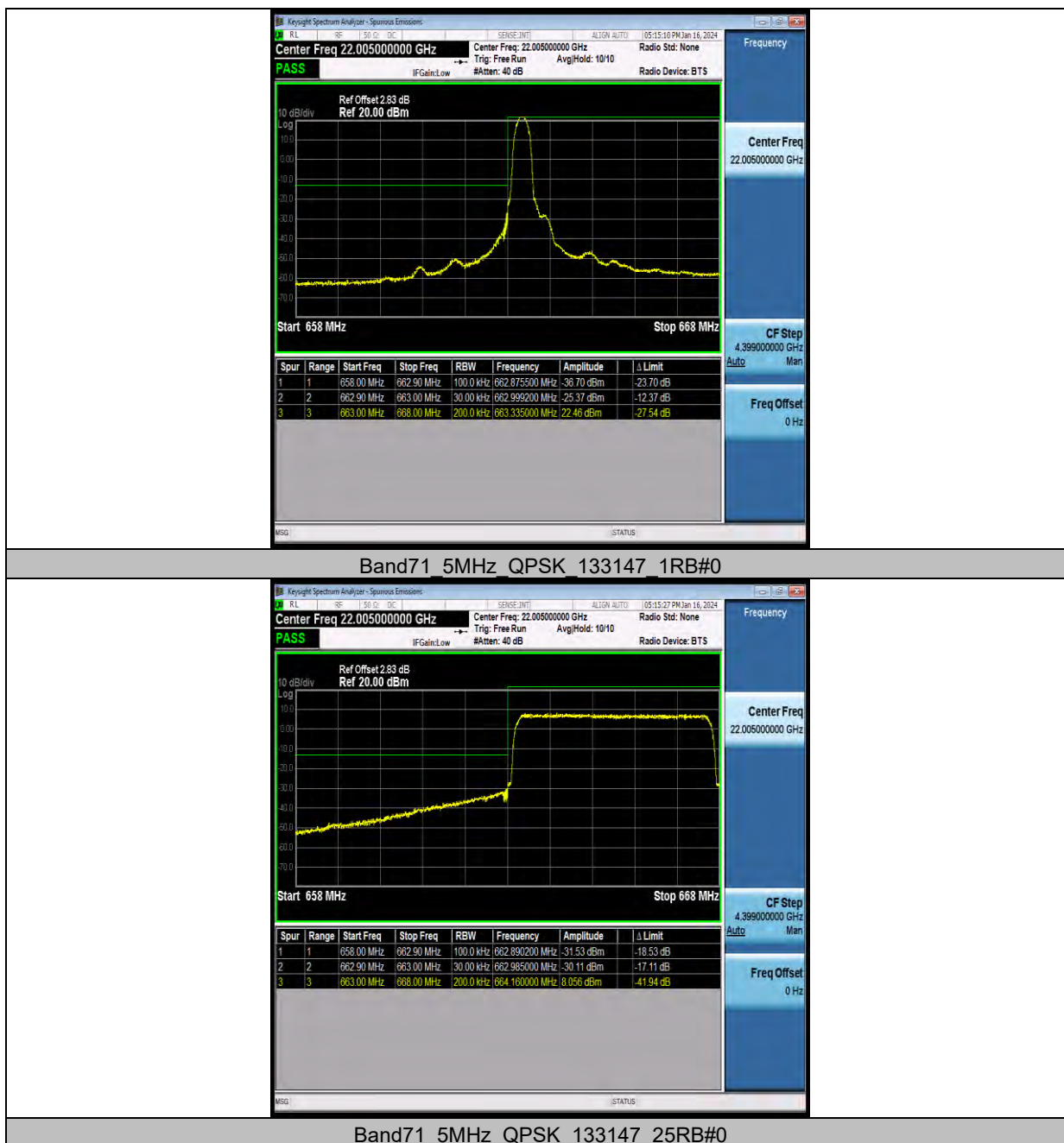
Band71-20MHz-16QAM-133372-100RB#0-PASS

BAND EDGE

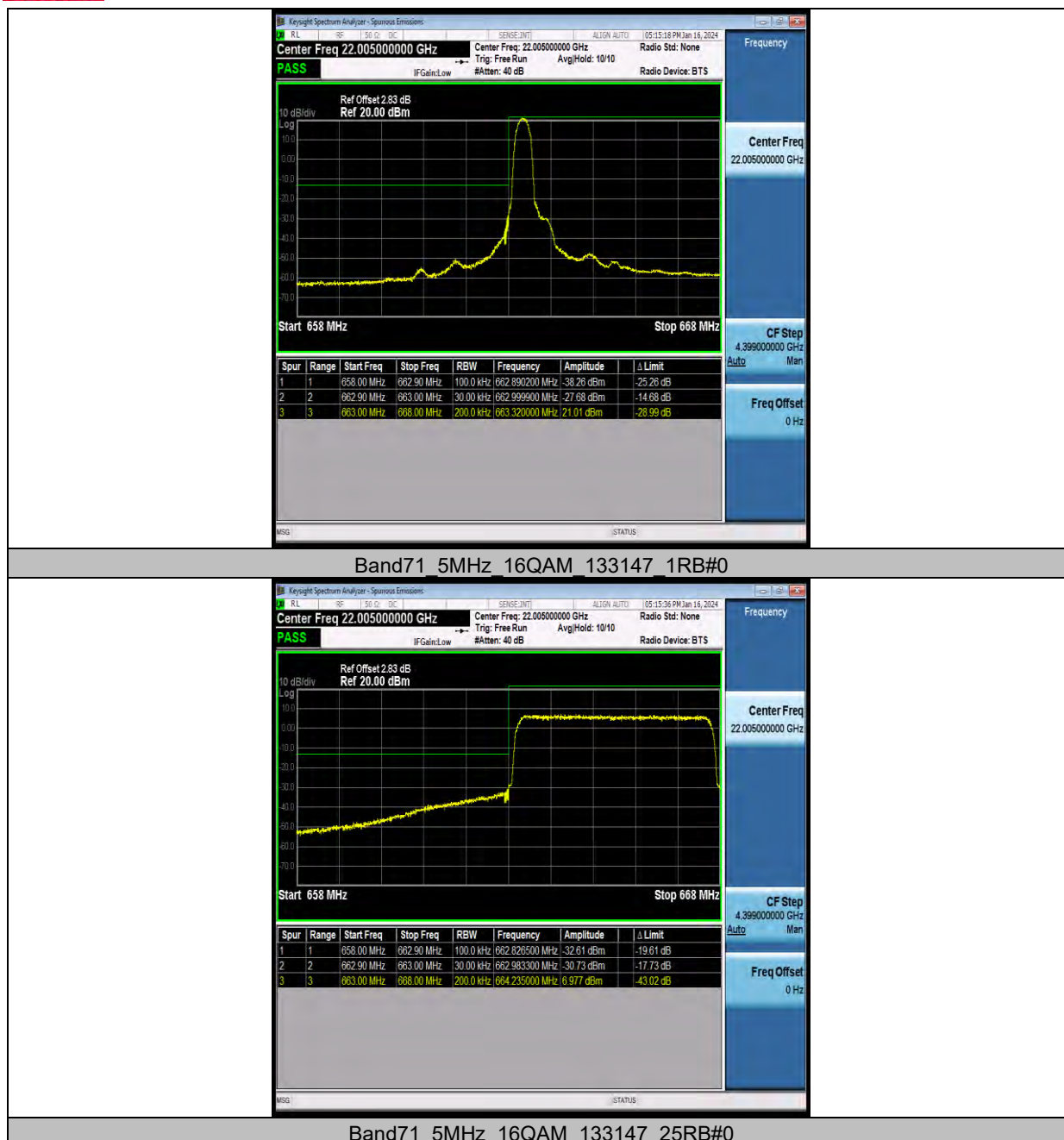
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	-25.37	PASS
Band71	5MHz	QPSK	133147	25RB#0	-30.11	PASS
Band71	5MHz	QPSK	133447	1RB#24	-28.12	PASS
Band71	5MHz	QPSK	133447	25RB#0	-31.56	PASS
Band71	5MHz	16QAM	133147	1RB#0	-27.68	PASS
Band71	5MHz	16QAM	133147	25RB#0	-30.73	PASS
Band71	5MHz	16QAM	133447	1RB#24	-28.88	PASS
Band71	5MHz	16QAM	133447	25RB#0	-32.32	PASS
Band71	10MHz	QPSK	133172	1RB#0	-38.67	PASS
Band71	10MHz	QPSK	133172	50RB#0	-34.85	PASS
Band71	10MHz	QPSK	133422	1RB#49	-40.56	PASS
Band71	10MHz	QPSK	133422	50RB#0	-38.20	PASS
Band71	10MHz	16QAM	133172	1RB#0	-39.27	PASS
Band71	10MHz	16QAM	133172	50RB#0	-35.60	PASS
Band71	10MHz	16QAM	133422	1RB#49	-41.38	PASS
Band71	10MHz	16QAM	133422	50RB#0	-38.91	PASS
Band71	15MHz	QPSK	133197	1RB#0	-37.19	PASS
Band71	15MHz	QPSK	133197	75RB#0	-38.41	PASS
Band71	15MHz	QPSK	133397	1RB#74	-38.98	PASS
Band71	15MHz	QPSK	133397	75RB#0	-39.02	PASS
Band71	15MHz	16QAM	133197	1RB#0	-38.47	PASS
Band71	15MHz	16QAM	133197	75RB#0	-38.84	PASS
Band71	15MHz	16QAM	133397	1RB#74	-39.11	PASS
Band71	15MHz	16QAM	133397	75RB#0	-39.75	PASS
Band71	20MHz	QPSK	133222	1RB#0	-40.09	PASS
Band71	20MHz	QPSK	133222	100RB#0	-39.75	PASS
Band71	20MHz	QPSK	133372	1RB#99	-40.72	PASS
Band71	20MHz	QPSK	133372	100RB#0	-39.44	PASS
Band71	20MHz	16QAM	133222	1RB#0	-40.22	PASS
Band71	20MHz	16QAM	133222	100RB#0	-40.32	PASS
Band71	20MHz	16QAM	133372	1RB#99	-41.24	PASS
Band71	20MHz	16QAM	133372	100RB#0	-40.10	PASS

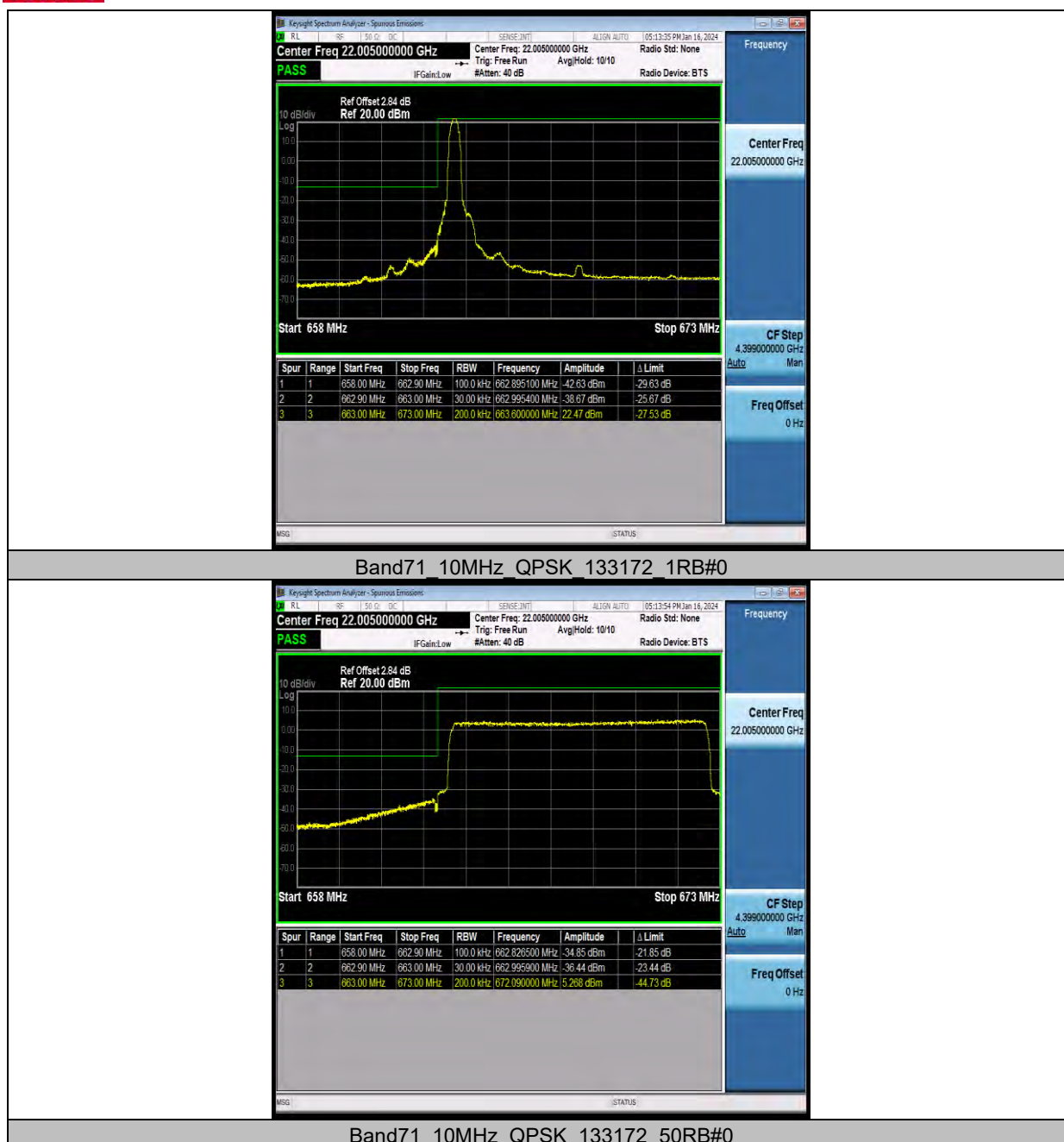
Test Graphs







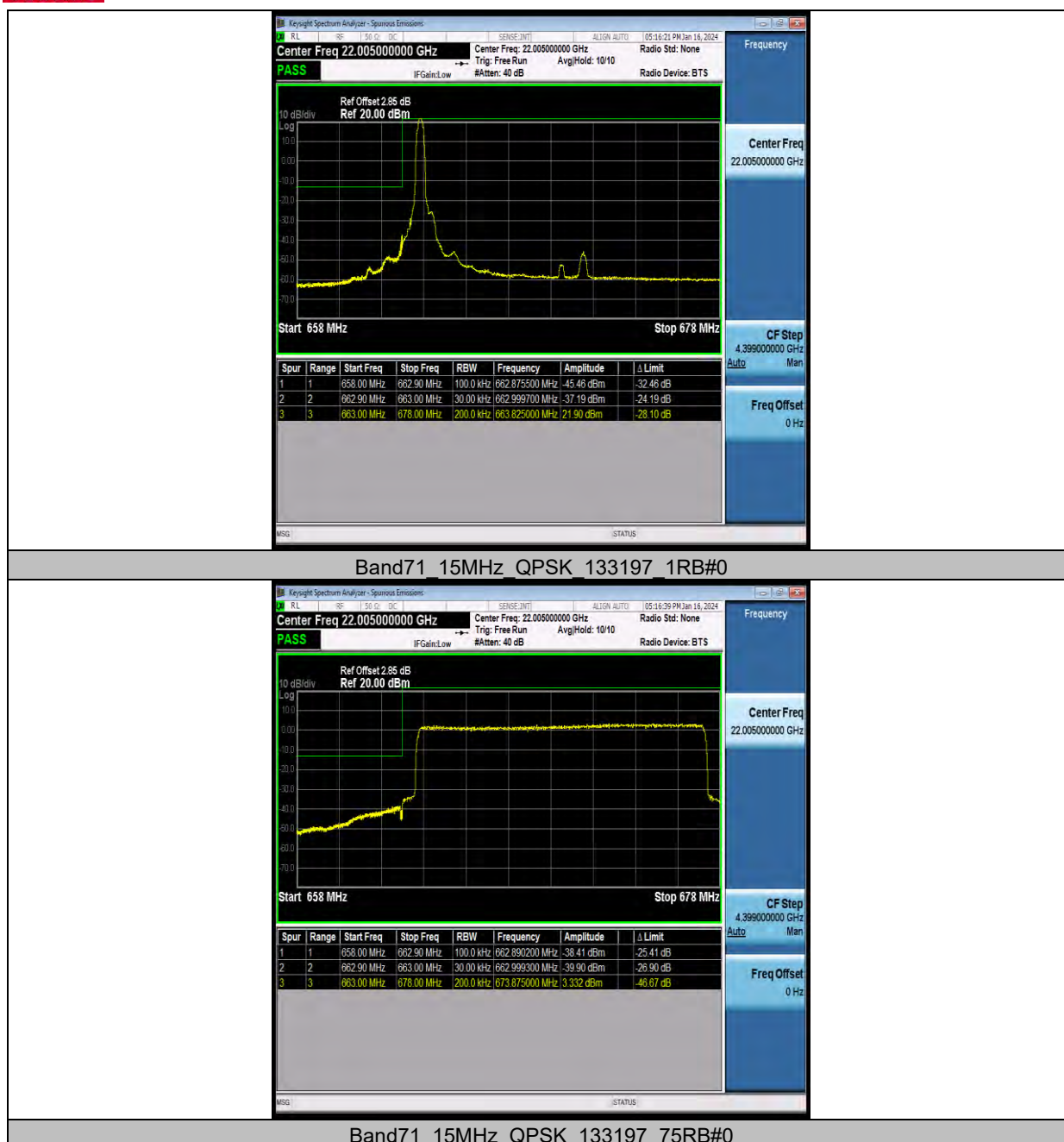


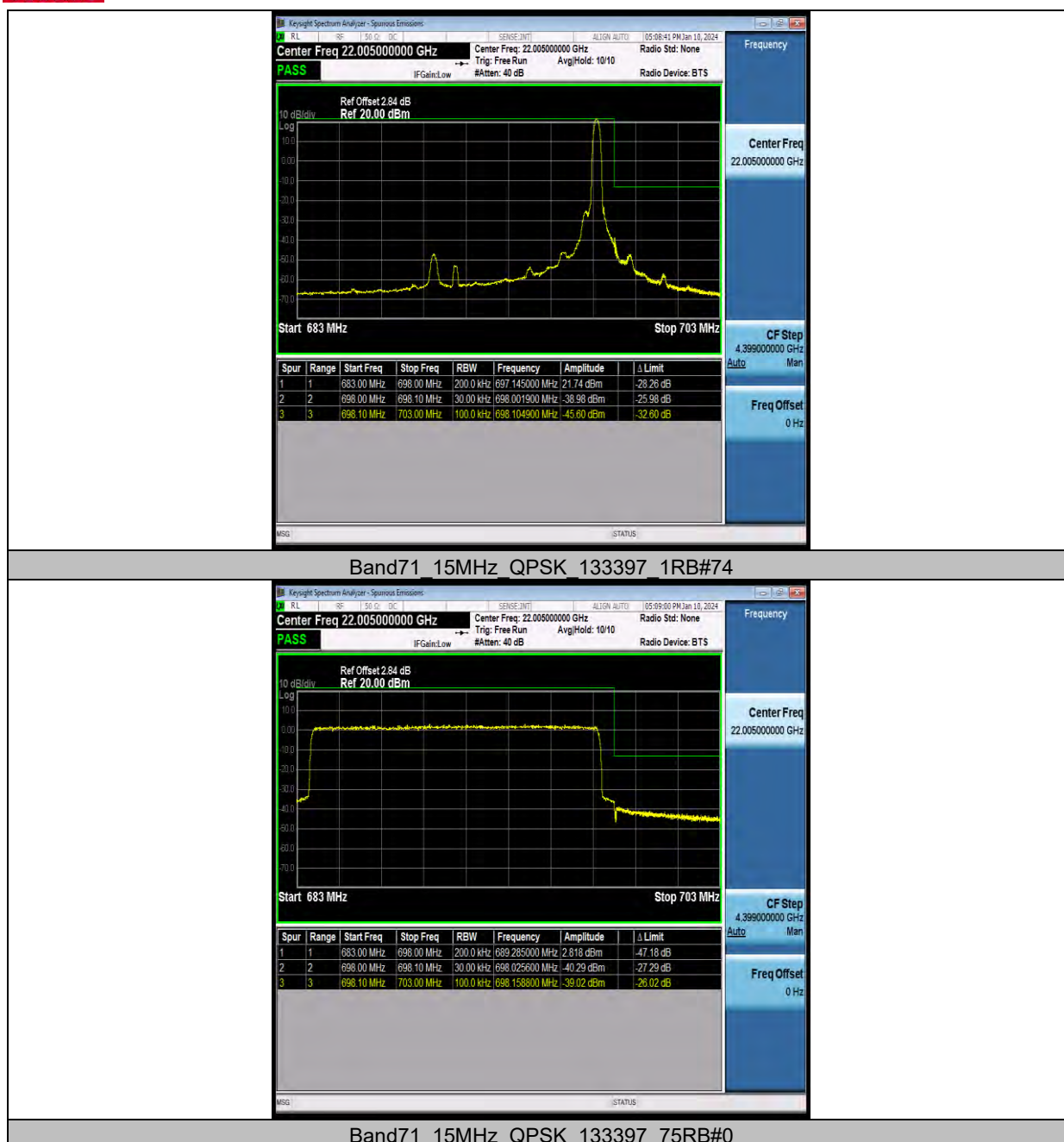


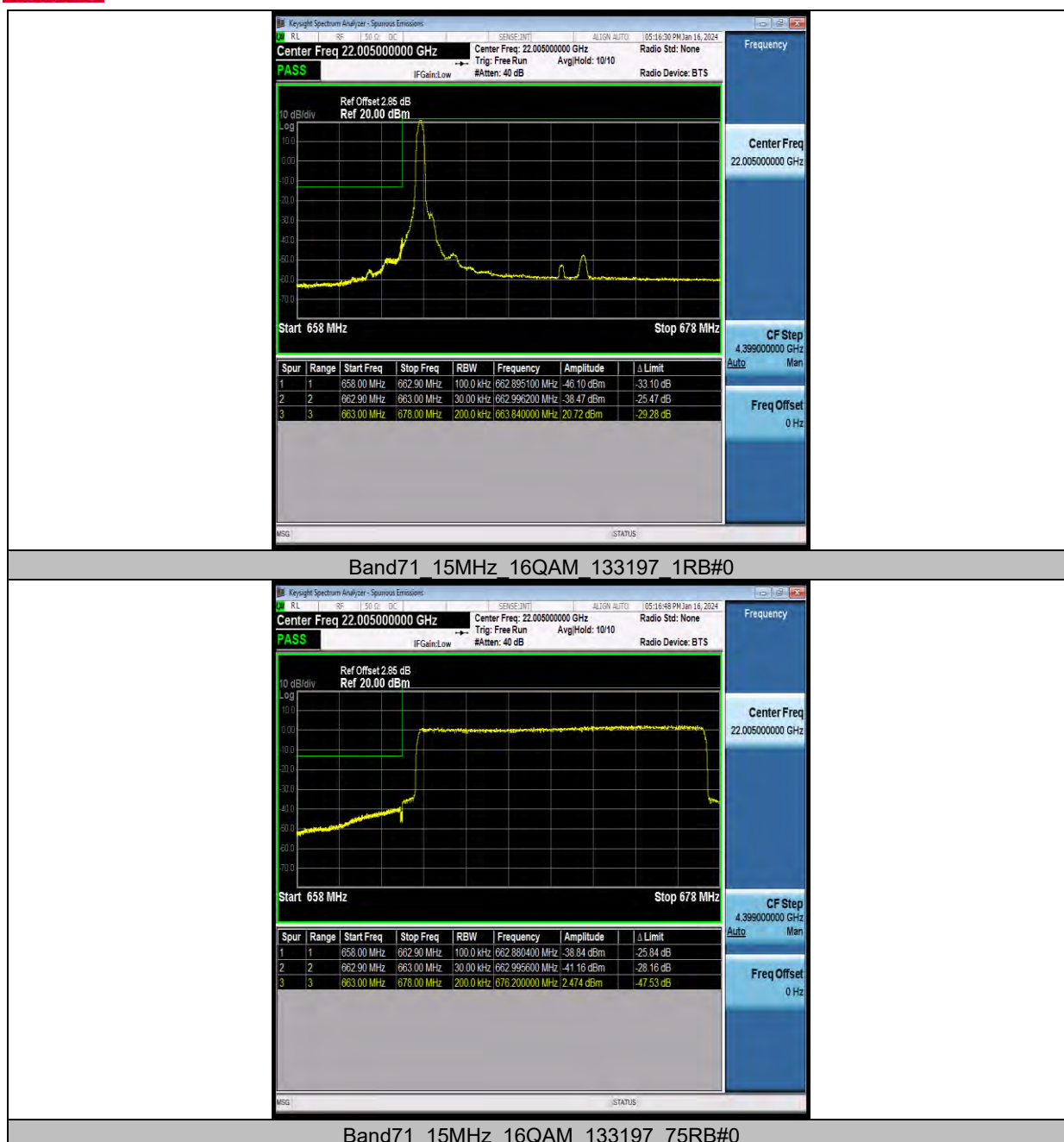




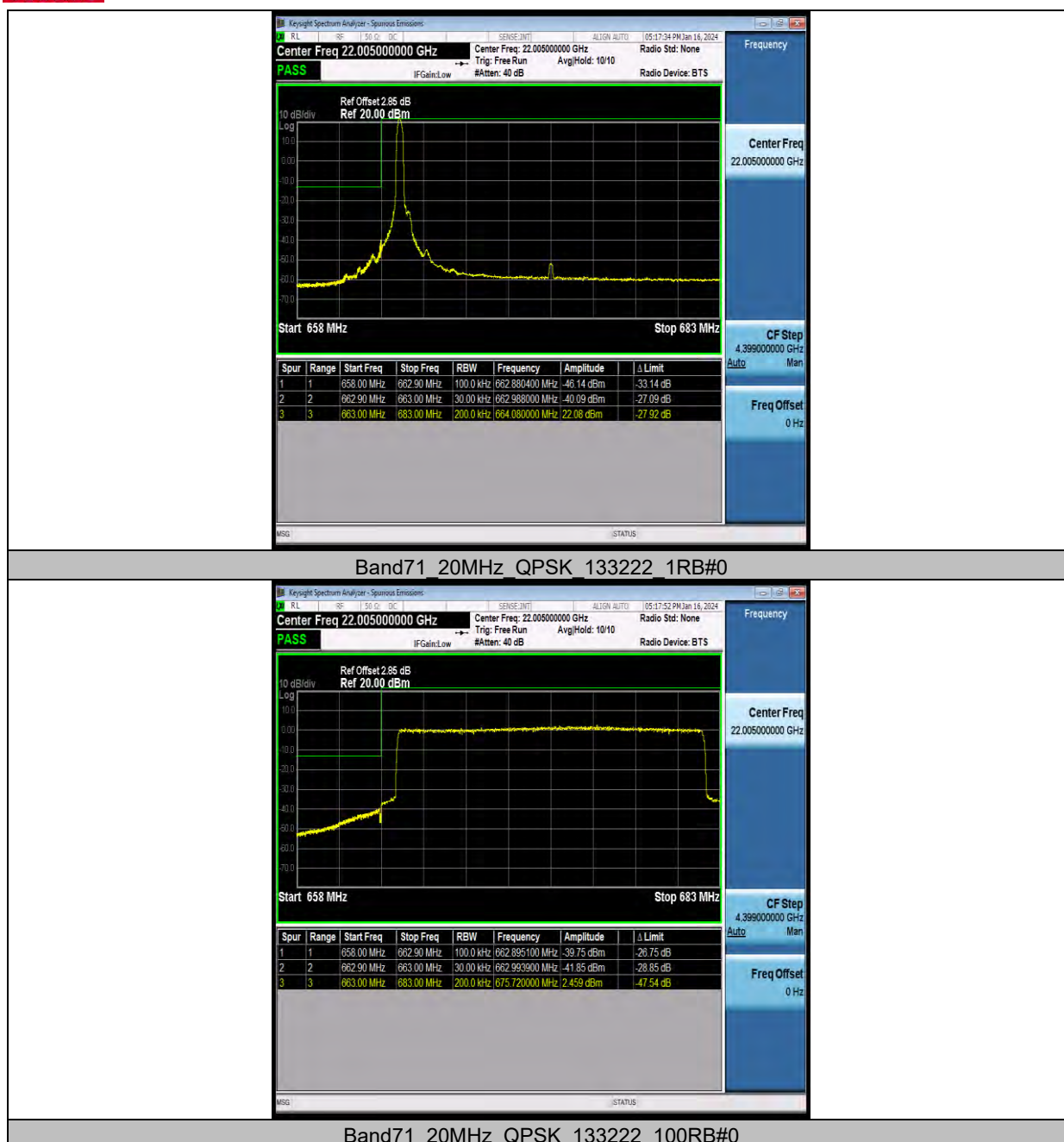


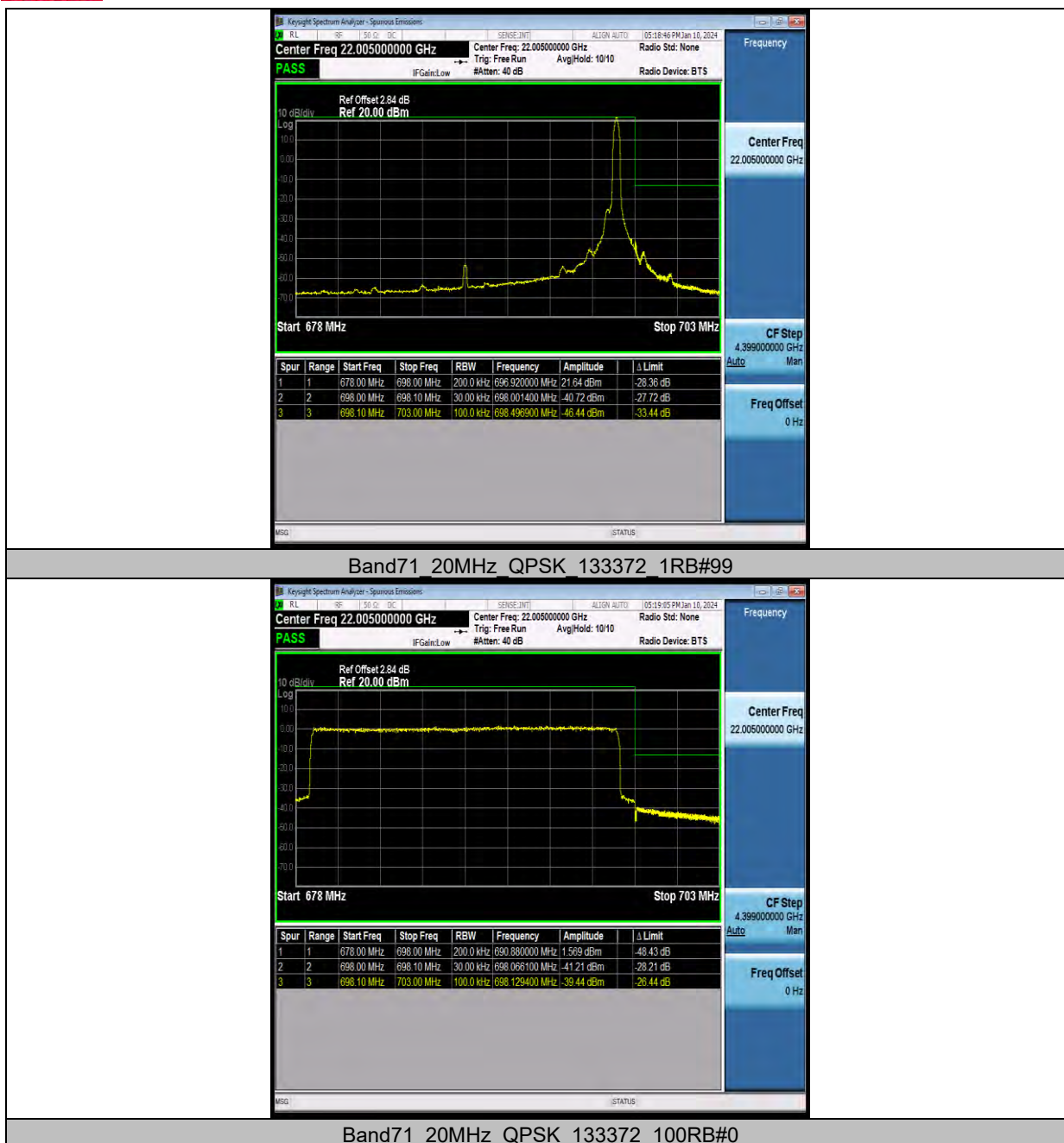


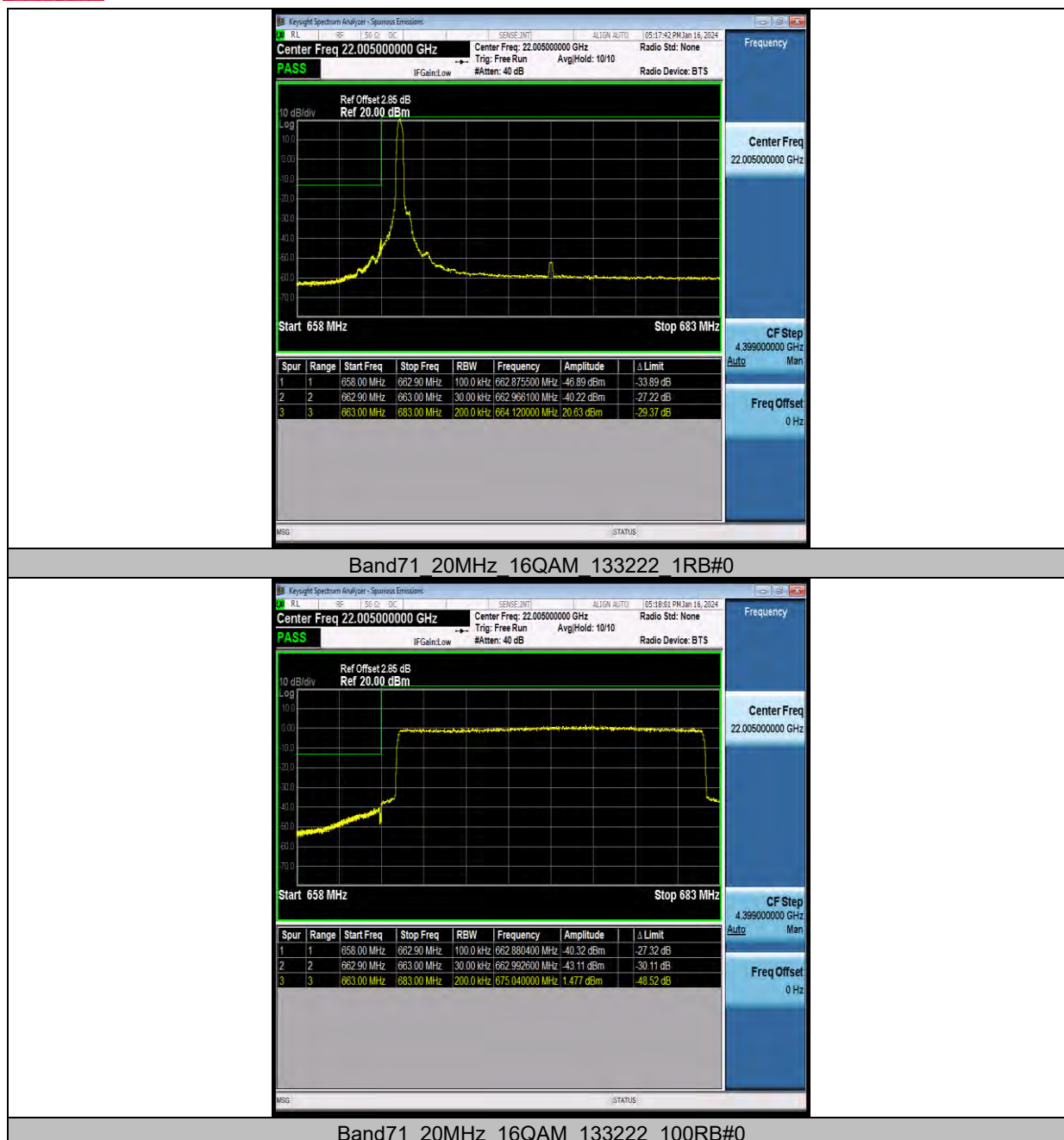


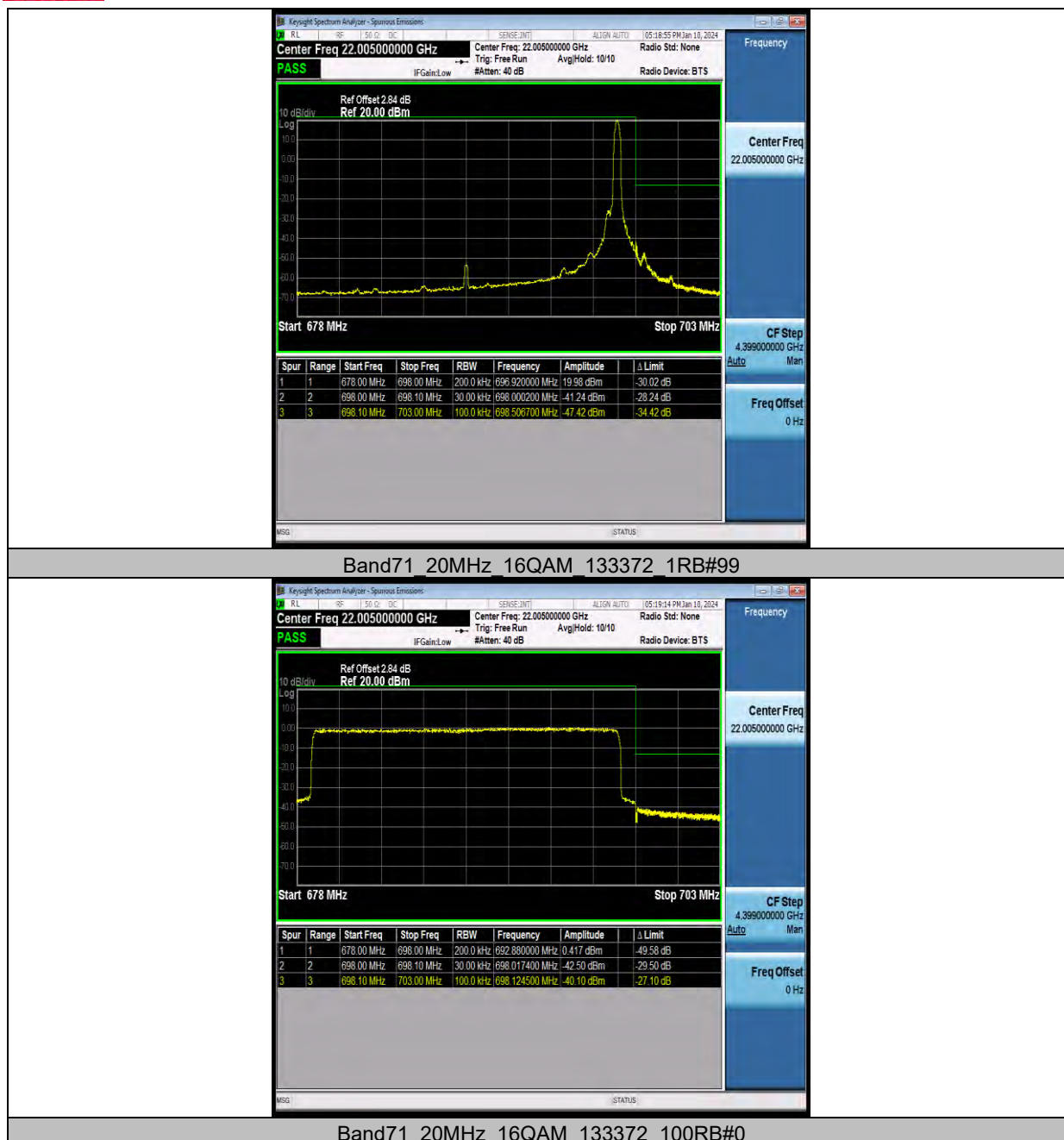










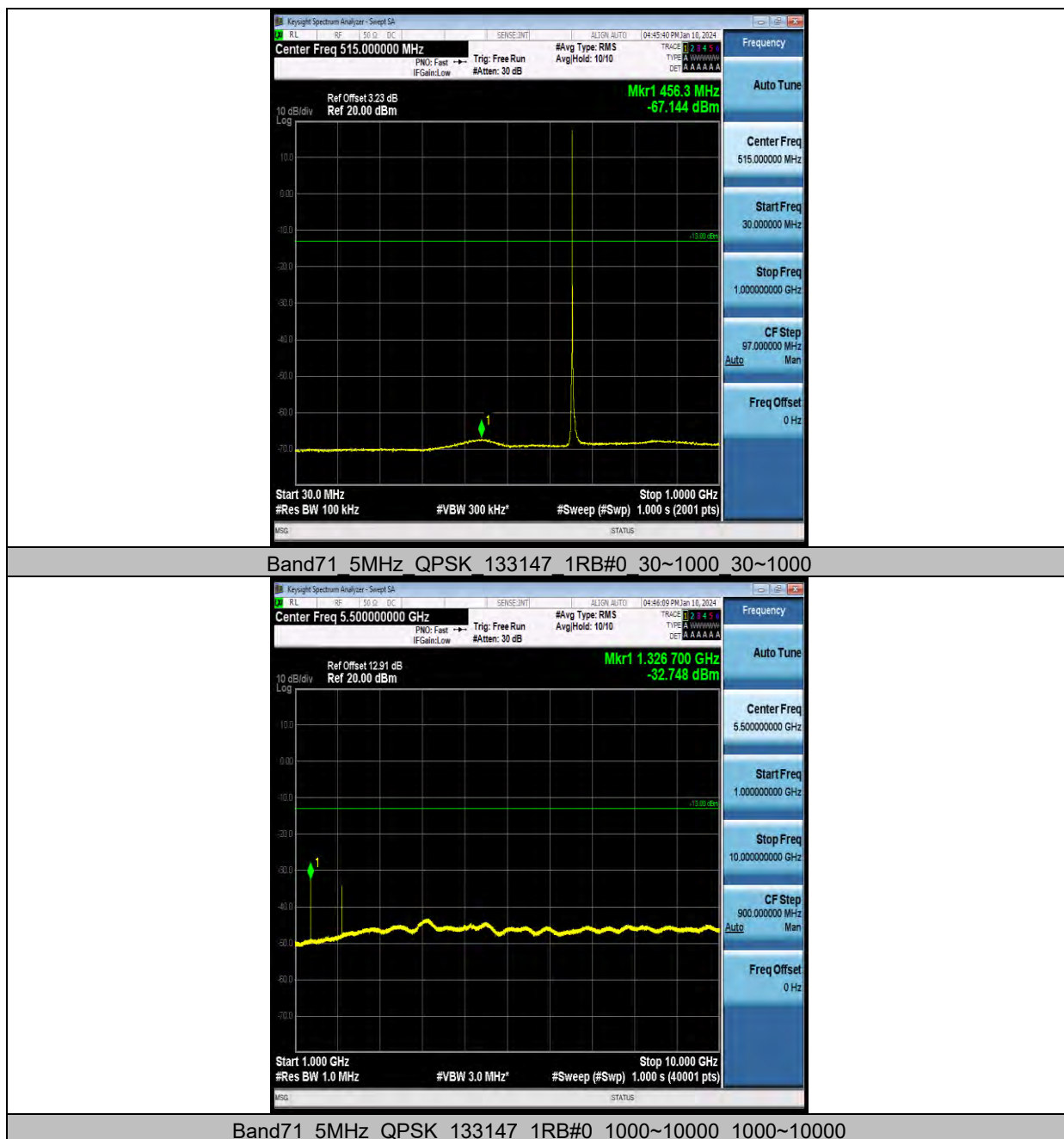


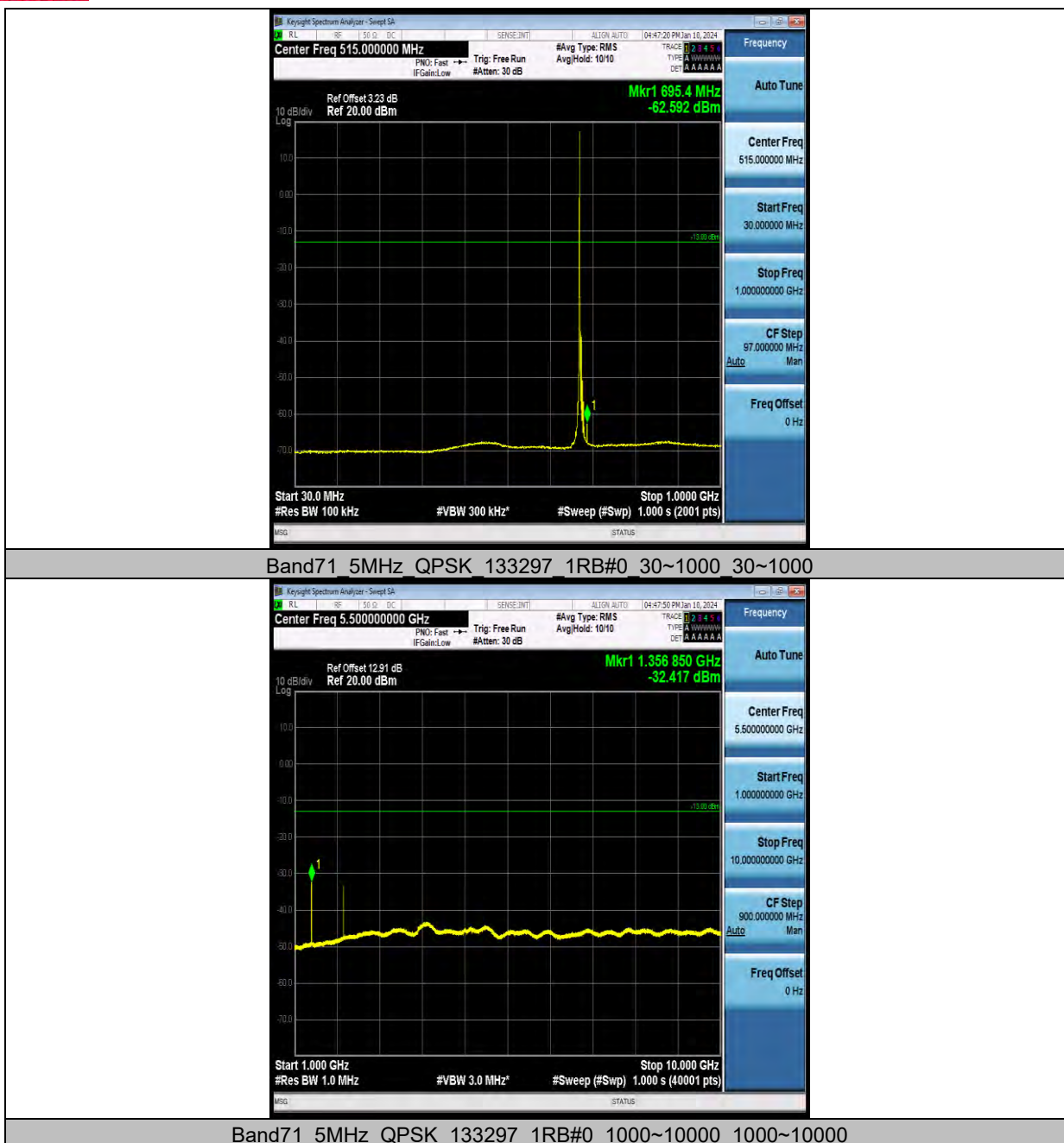
CONDUCTED SPURIOUS EMISSION

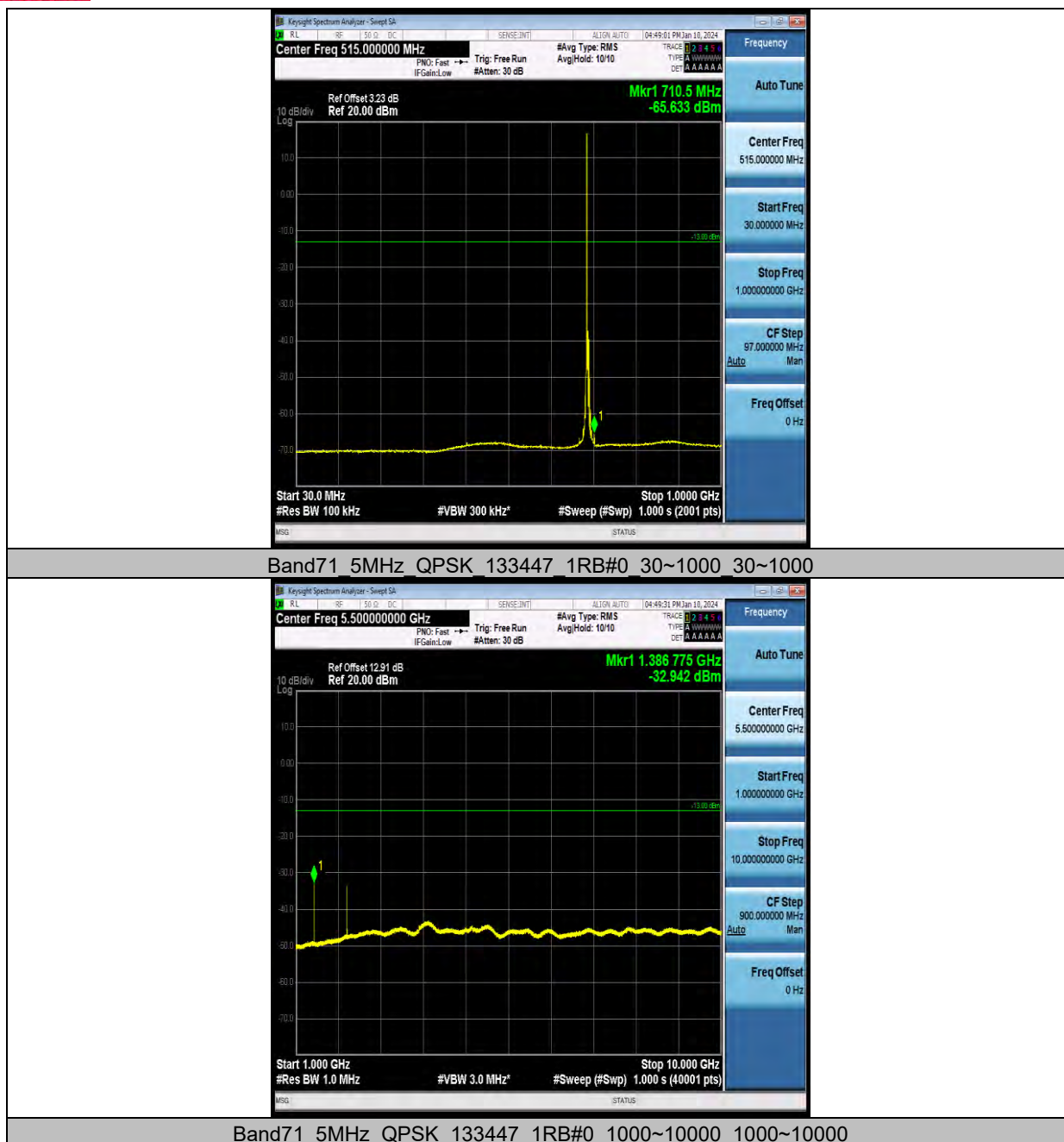
Test Result

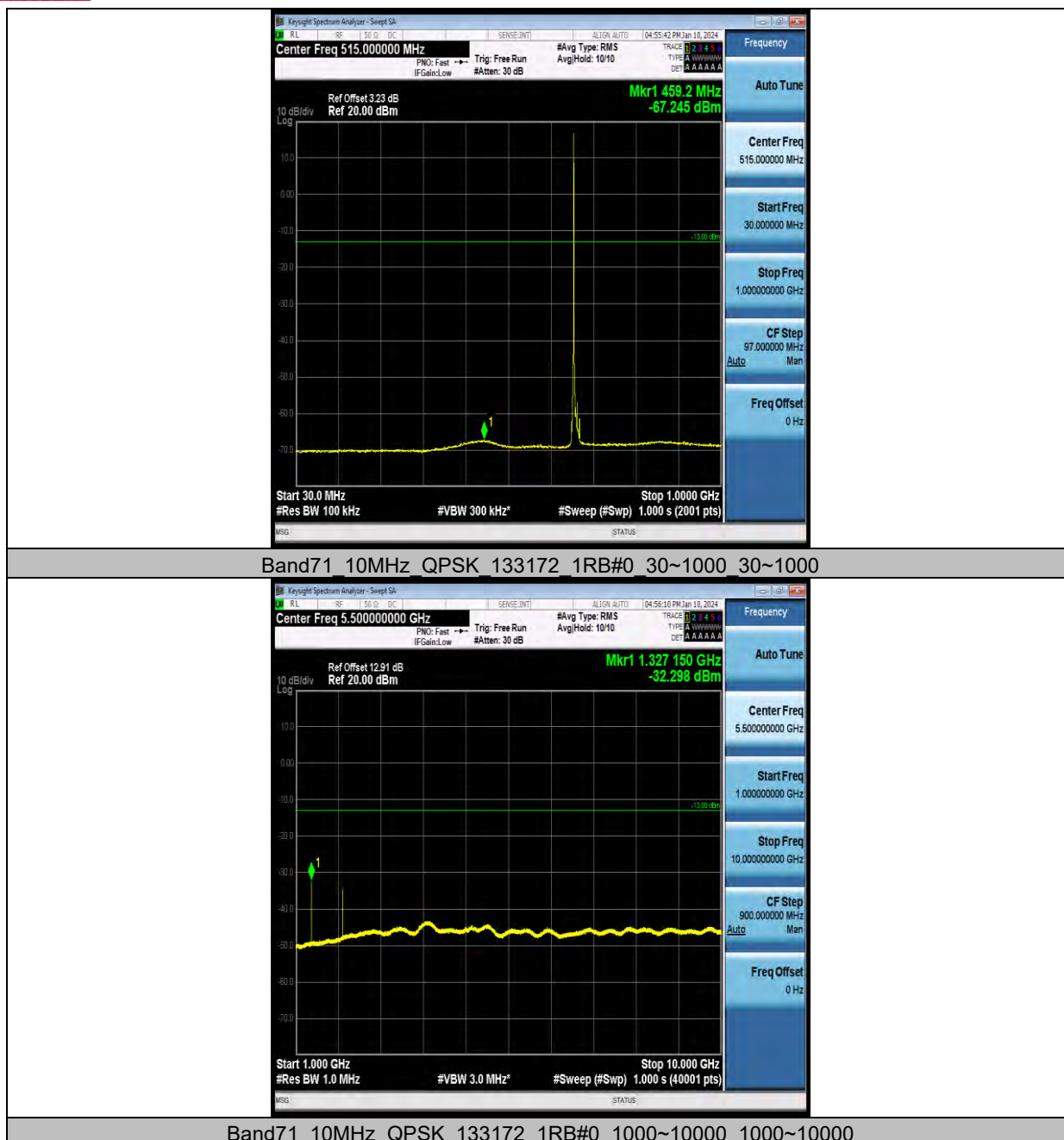
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	30~1000	-67.14	PASS
Band71	5MHz	QPSK	133147	1RB#0	1000~10000	-32.75	PASS
Band71	5MHz	QPSK	133297	1RB#0	30~1000	-62.59	PASS
Band71	5MHz	QPSK	133297	1RB#0	1000~10000	-32.42	PASS
Band71	5MHz	QPSK	133447	1RB#0	30~1000	-65.63	PASS
Band71	5MHz	QPSK	133447	1RB#0	1000~10000	-32.94	PASS
Band71	10MHz	QPSK	133172	1RB#0	30~1000	-67.25	PASS
Band71	10MHz	QPSK	133172	1RB#0	1000~10000	-32.30	PASS
Band71	10MHz	QPSK	133297	1RB#0	30~1000	-67.45	PASS
Band71	10MHz	QPSK	133297	1RB#0	1000~10000	-31.48	PASS
Band71	10MHz	QPSK	133422	1RB#0	30~1000	-67.25	PASS
Band71	10MHz	QPSK	133422	1RB#0	1000~10000	-32.12	PASS
Band71	15MHz	QPSK	133197	1RB#0	30~1000	-67.27	PASS
Band71	15MHz	QPSK	133197	1RB#0	1000~10000	-38.05	PASS
Band71	15MHz	QPSK	133297	1RB#0	30~1000	-58.03	PASS
Band71	15MHz	QPSK	133297	1RB#0	1000~10000	-37.46	PASS
Band71	15MHz	QPSK	133397	1RB#0	30~1000	-57.91	PASS
Band71	15MHz	QPSK	133397	1RB#0	1000~10000	-37.25	PASS
Band71	20MHz	QPSK	133222	1RB#0	30~1000	-58.07	PASS
Band71	20MHz	QPSK	133222	1RB#0	1000~10000	-38.59	PASS
Band71	20MHz	QPSK	133322	1RB#0	30~1000	-57.95	PASS
Band71	20MHz	QPSK	133322	1RB#0	1000~10000	-37.81	PASS
Band71	20MHz	QPSK	133372	1RB#0	30~1000	-57.96	PASS
Band71	20MHz	QPSK	133372	1RB#0	1000~10000	-37.89	PASS

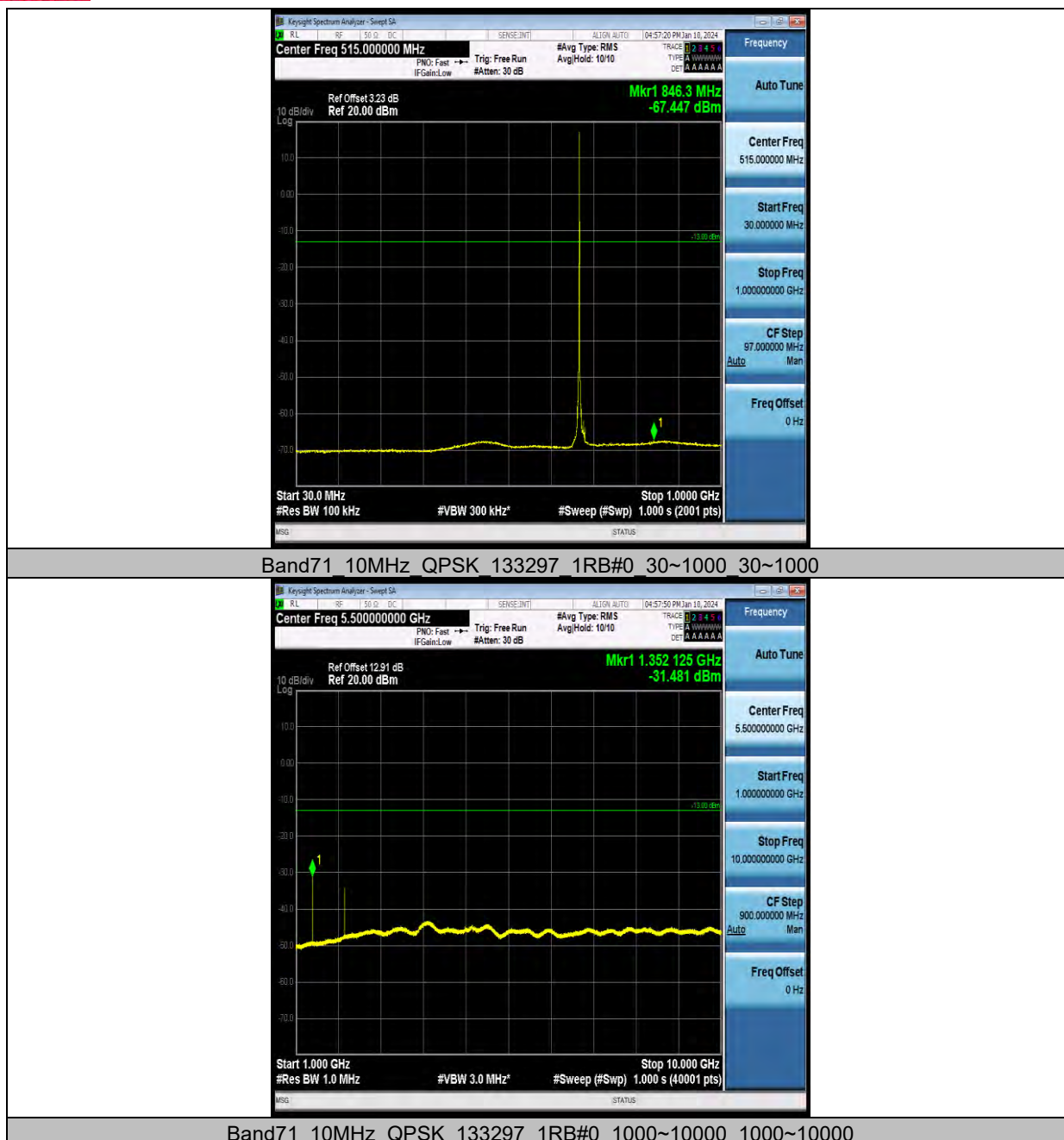
Test Graphs

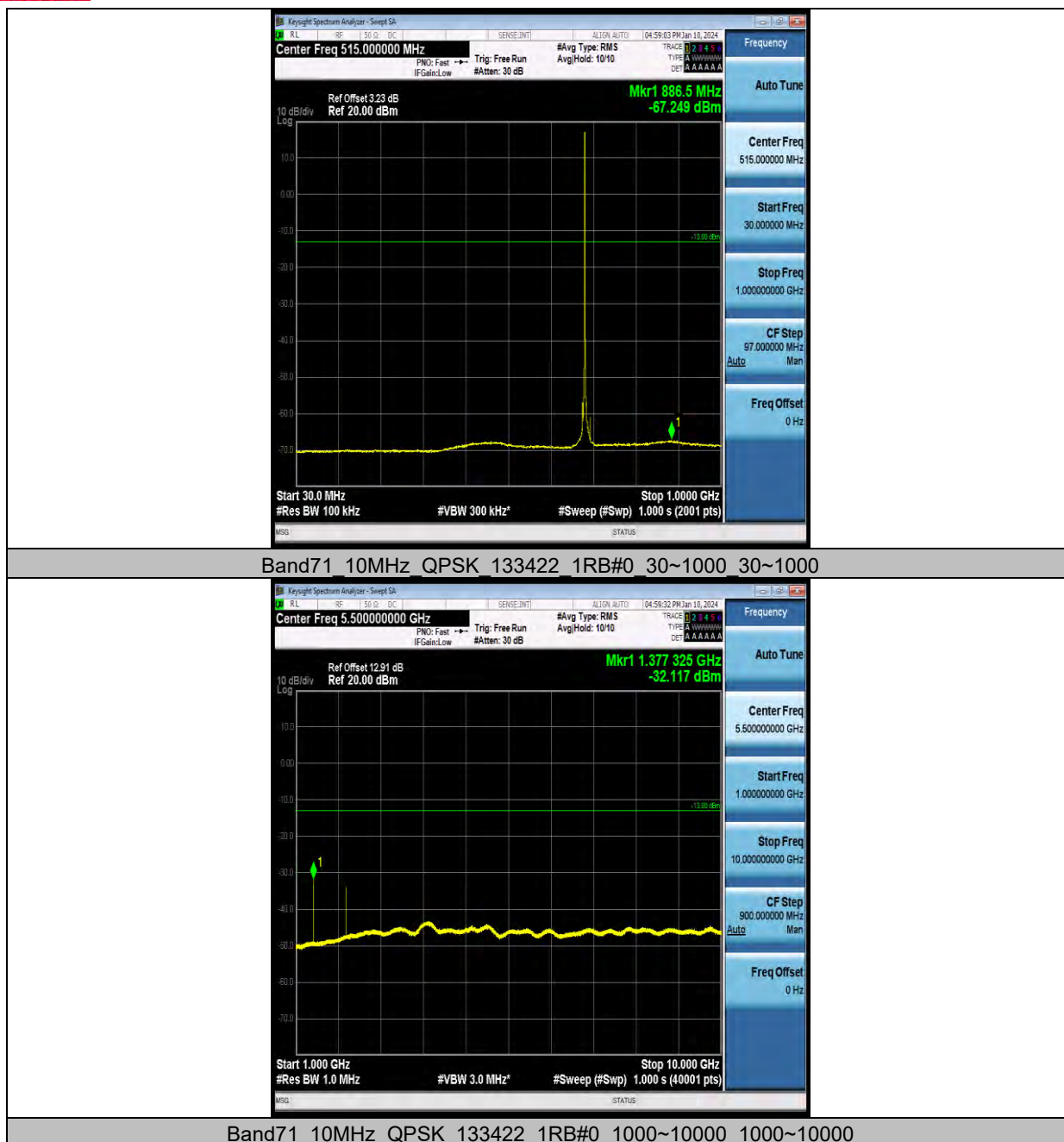


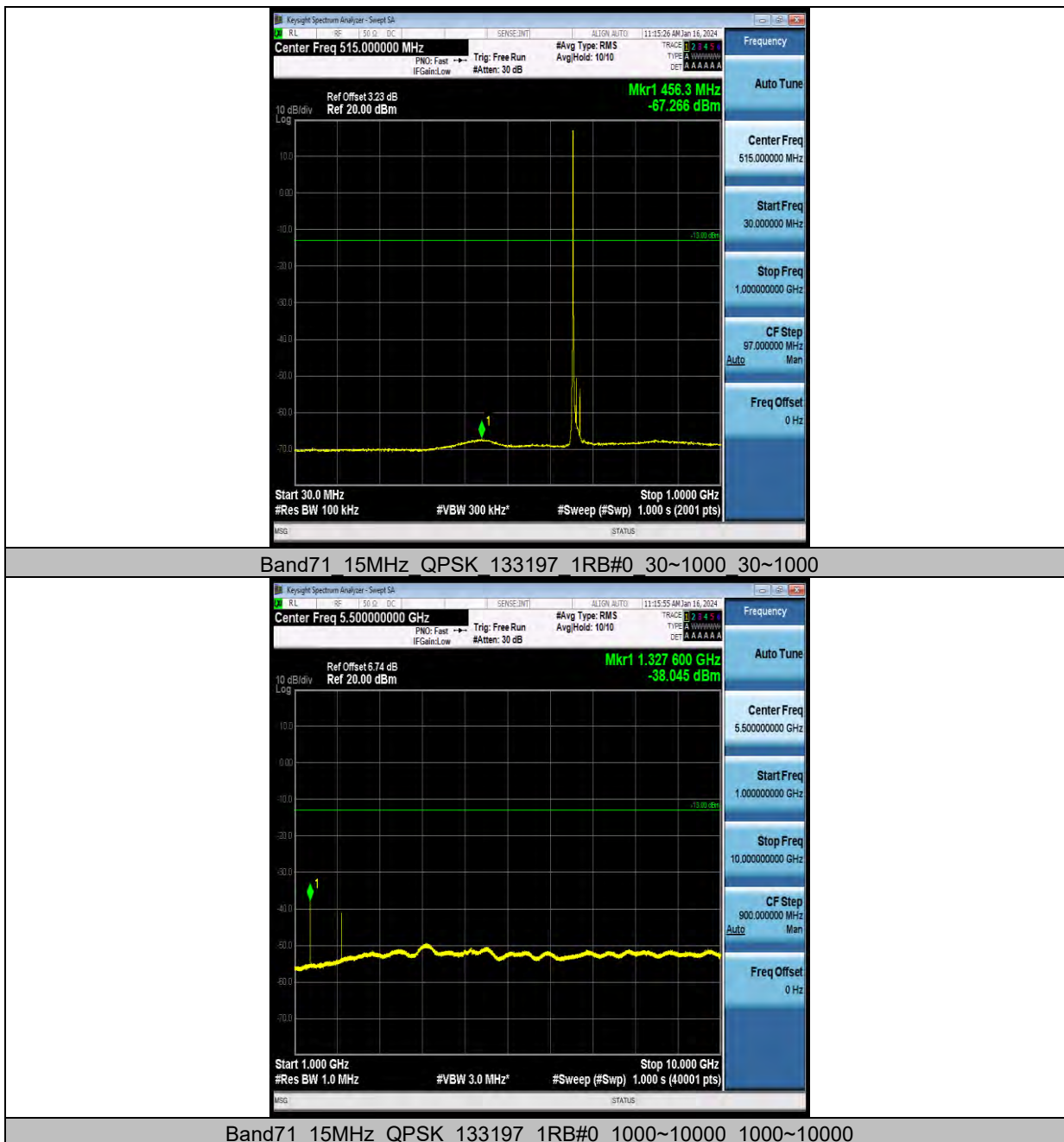














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Test Report No.: W7L-P23120020RF03



Band71 15MHz QPSK 133297 1RB#0 30~1000 30~1000



Band71 15MHz QPSK 133297 1RB#0 1000~10000 1000~10000

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BUREAU
VERITAS

Test Report No.: W7L-P23120020RF03



Band71 15MHz QPSK 133397 1RB#0 30~1000 30~1000

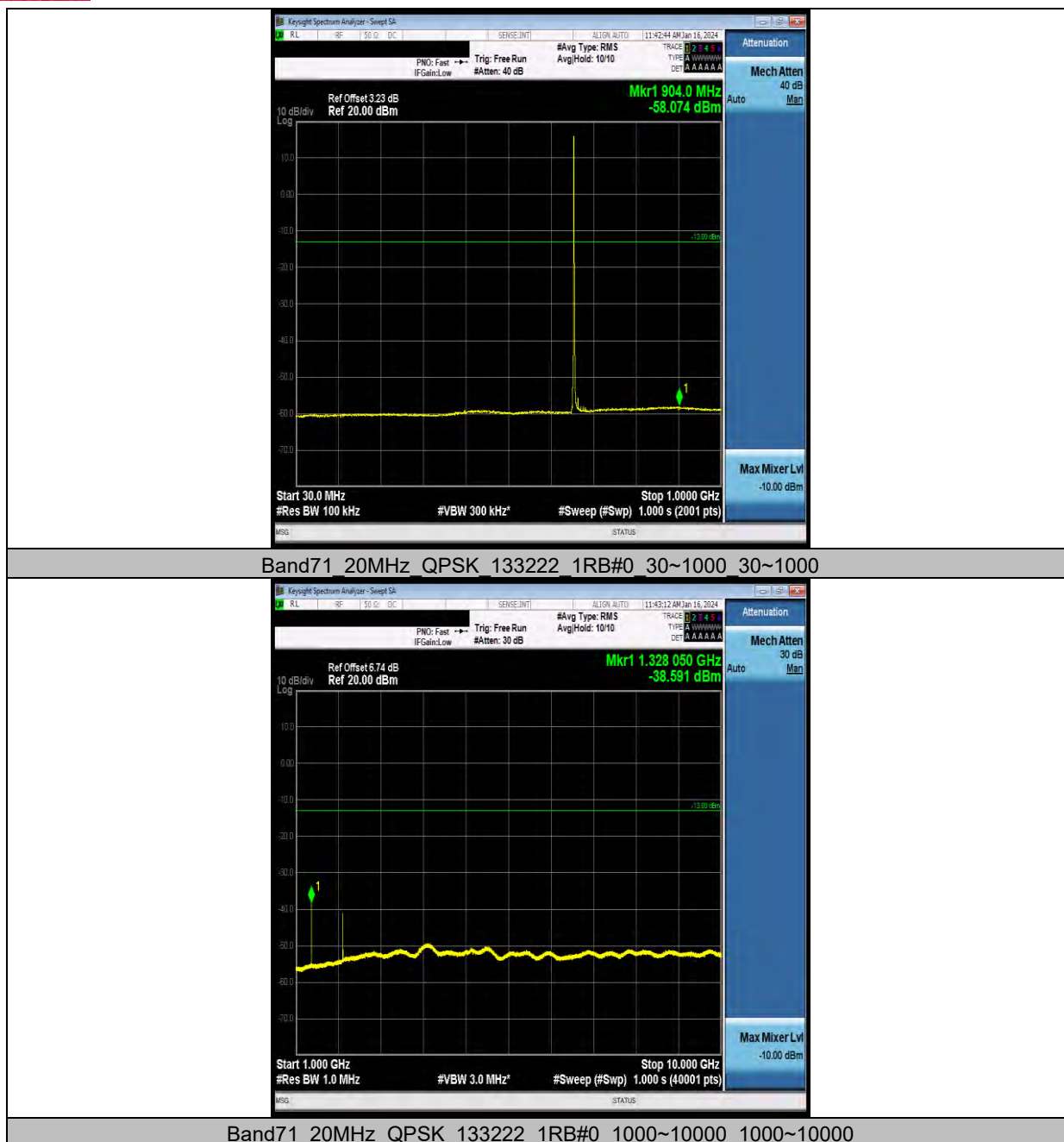


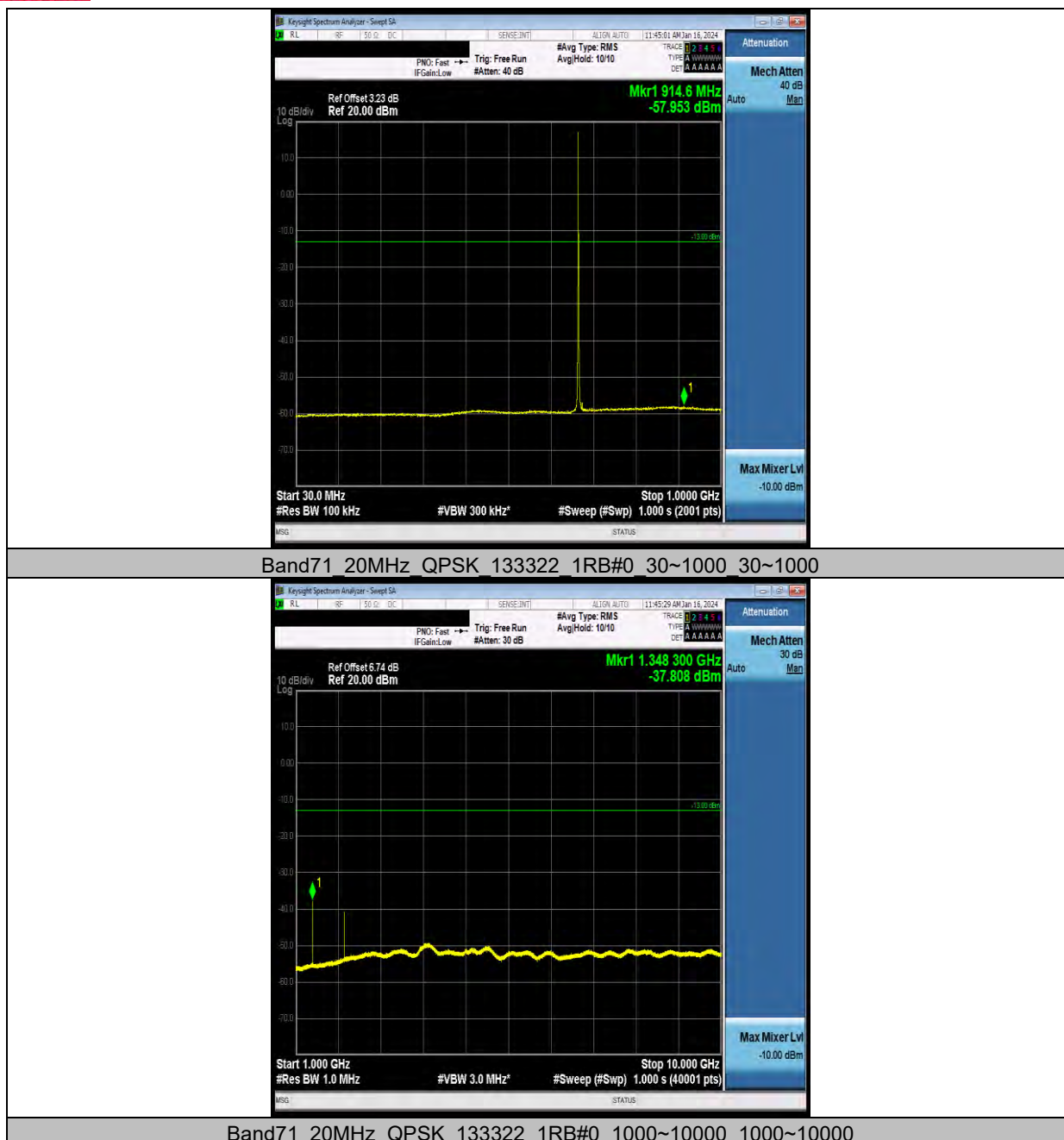
Band71 15MHz QPSK 133397 1RB#0 1000~10000 1000~10000

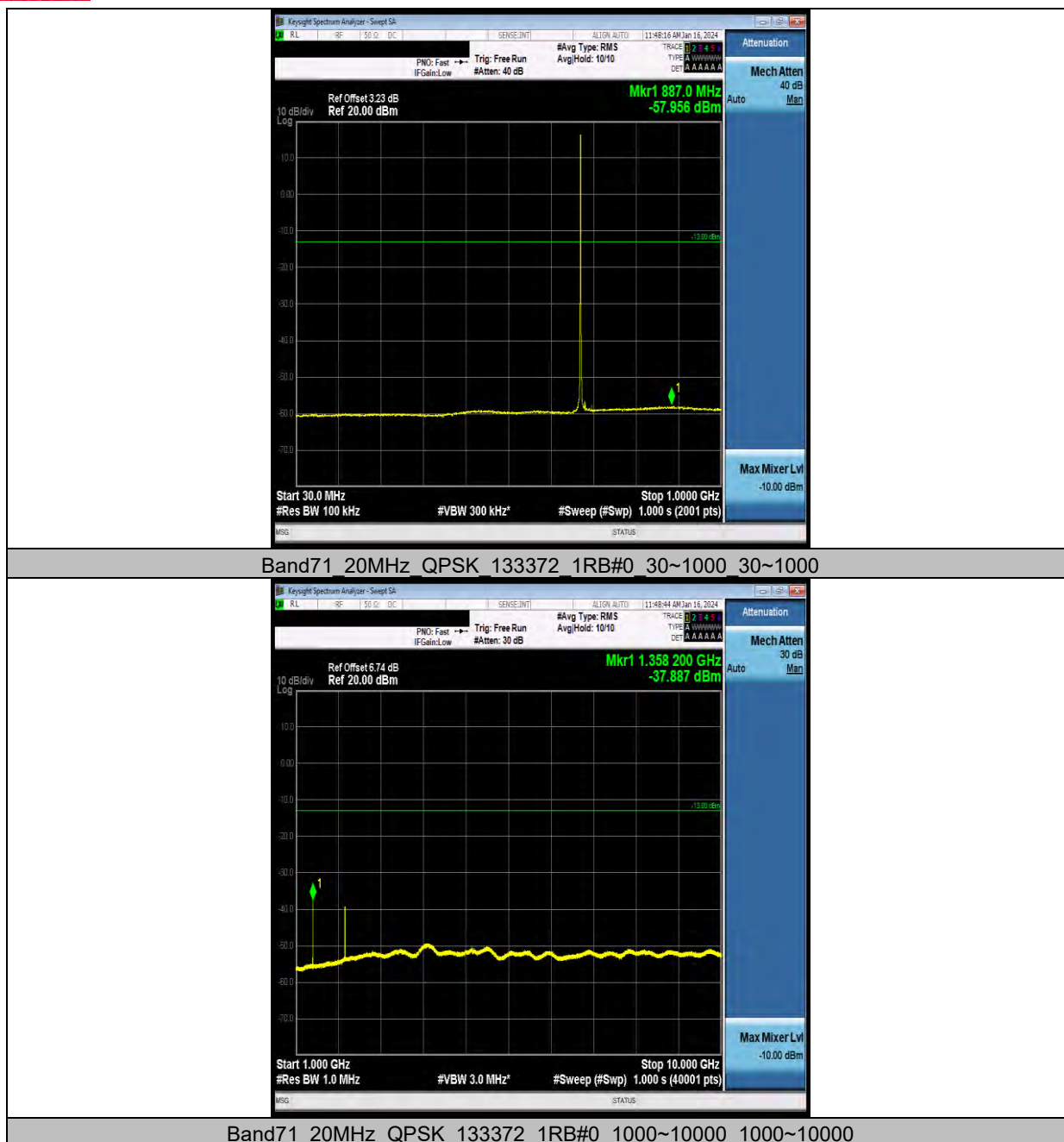
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FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	10MHz	QPSK	13317 2	50RB#0	VN	NT	-1.92	-0.002874	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	VL	NT	1.72	0.002575	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	VH	NT	2.06	0.003084	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	VN	NT	1.40	0.002057	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	VL	NT	-2.02	-0.002968	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	VH	NT	3.33	0.004893	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	VN	NT	-1.82	-0.002626	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	VL	NT	-1.10	-0.001587	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	VH	NT	-2.52	-0.003636	±2.5	PASS

Temperature										
Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	10MHz	QPSK	13317 2	50RB#0	NV	-30	-2.59	-0.003877	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	-20	2.66	0.003982	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	-10	2.46	0.003683	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	0	-1.79	-0.002680	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	10	-1.69	-0.002530	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	20	1.14	0.001707	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	30	-1.56	-0.002335	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	40	-2.55	-0.003817	±2.5	PASS
Band71	10MHz	QPSK	13317	50RB#0	NV	50	-2.39	-0.003578	±2.5	PASS

			2							
Band71	10MHz	QPSK	13329 7	50RB#0	NV	-30	-1.19	-0.001749	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	-20	-1.33	-0.001954	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	-10	1.62	0.002381	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	0	2.66	0.003909	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	10	1.89	0.002777	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	20	-1.62	-0.002381	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	30	-1.75	-0.002572	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	40	1.50	0.002204	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	50	1.53	0.002248	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	-30	-1.02	-0.001472	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	-20	-2.96	-0.004271	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	-10	-3.12	-0.004502	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	0	-2.06	-0.002973	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	10	-1.53	-0.002208	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	20	-2.02	-0.002915	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	30	-3.42	-0.004935	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	40	-1.34	-0.001934	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	50	-0.93	-0.001342	±2.5	PASS

--END--