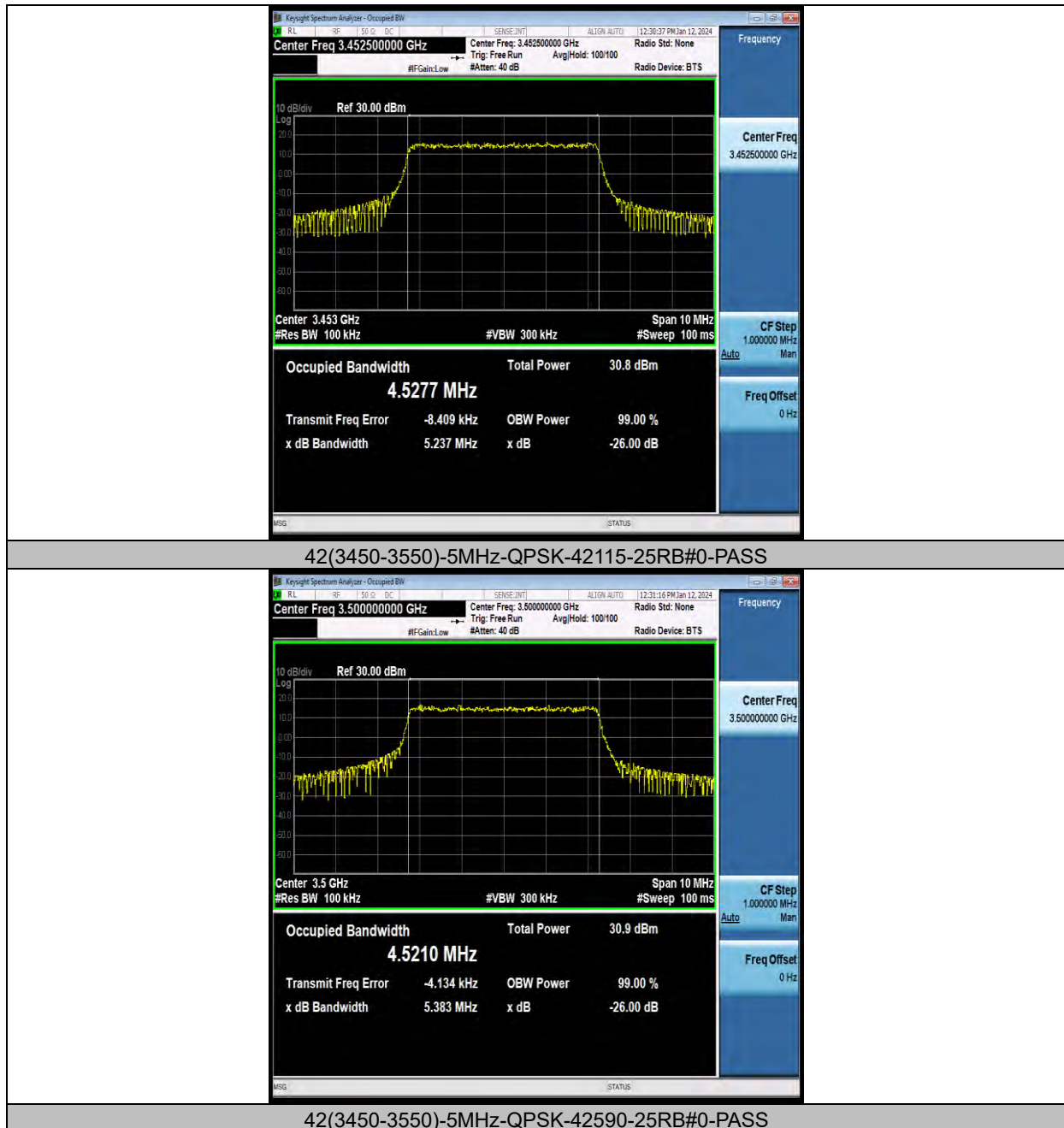


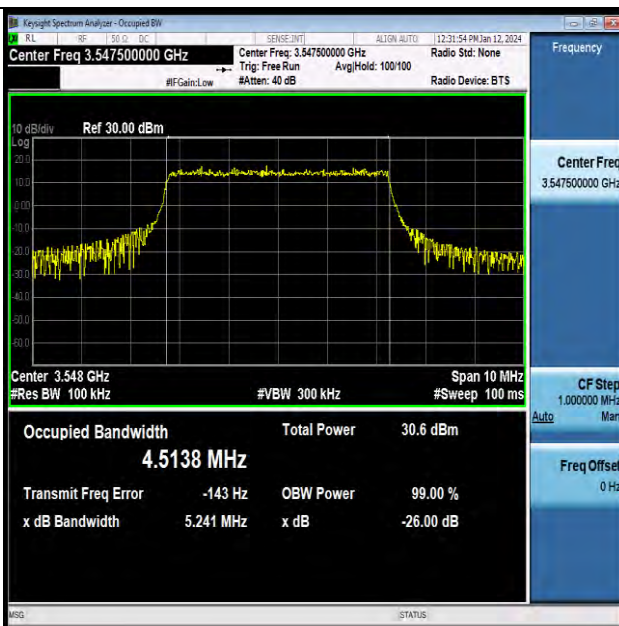
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

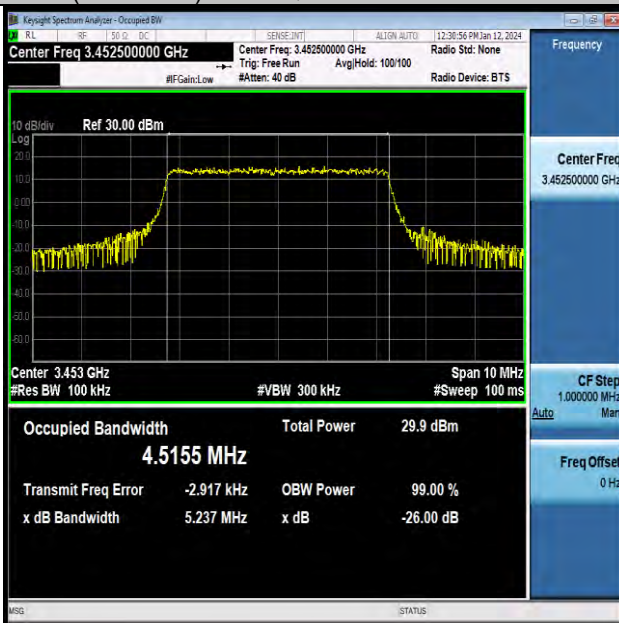
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
42(3450-3550)	5MHz	QPSK	42115	25RB#0	4.5277	5.237	PASS
42(3450-3550)	5MHz	QPSK	42590	25RB#0	4.5210	5.383	PASS
42(3450-3550)	5MHz	QPSK	43065	25RB#0	4.5138	5.241	PASS
42(3450-3550)	5MHz	16QAM	42115	25RB#0	4.5155	5.237	PASS
42(3450-3550)	5MHz	16QAM	42590	25RB#0	4.5098	5.425	PASS
42(3450-3550)	5MHz	16QAM	43065	25RB#0	4.5105	5.565	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	9.0114	10.13	PASS
42(3450-3550)	10MHz	QPSK	42590	50RB#0	8.9905	10.51	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB#0	9.0132	10.87	PASS
42(3450-3550)	10MHz	16QAM	42140	50RB#0	8.9979	10.02	PASS
42(3450-3550)	10MHz	16QAM	42590	50RB#0	9.0130	10.79	PASS
42(3450-3550)	10MHz	16QAM	43040	50RB#0	9.0024	10.47	PASS
42(3450-3550)	15MHz	QPSK	42165	75RB#0	13.534	15.48	PASS
42(3450-3550)	15MHz	QPSK	42590	75RB#0	13.535	15.56	PASS
42(3450-3550)	15MHz	QPSK	43015	75RB#0	13.487	14.93	PASS
42(3450-3550)	15MHz	16QAM	42165	75RB#0	13.522	16.22	PASS
42(3450-3550)	15MHz	16QAM	42590	75RB#0	13.518	15.72	PASS
42(3450-3550)	15MHz	16QAM	43015	75RB#0	13.510	15.83	PASS
42(3450-3550)	20MHz	QPSK	42190	100RB#0	17.998	20.44	PASS
42(3450-3550)	20MHz	QPSK	42590	100RB#0	17.985	20.84	PASS
42(3450-3550)	20MHz	QPSK	42990	100RB#0	17.992	21.03	PASS
42(3450-3550)	20MHz	16QAM	42190	100RB#0	17.985	21.95	PASS
42(3450-3550)	20MHz	16QAM	42590	100RB#0	18.024	21.23	PASS
42(3450-3550)	20MHz	16QAM	42990	100RB#0	17.996	20.08	PASS

Test Graphs

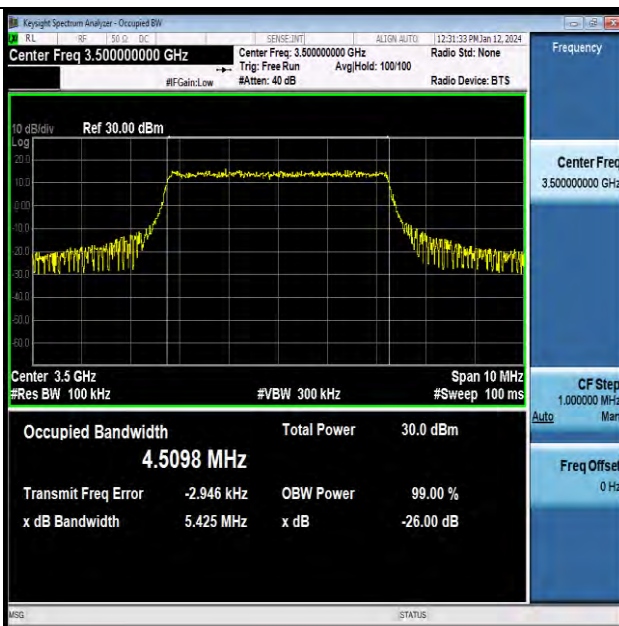




42(3450-3550)-5MHz-QPSK-43065-25RB#0-PASS



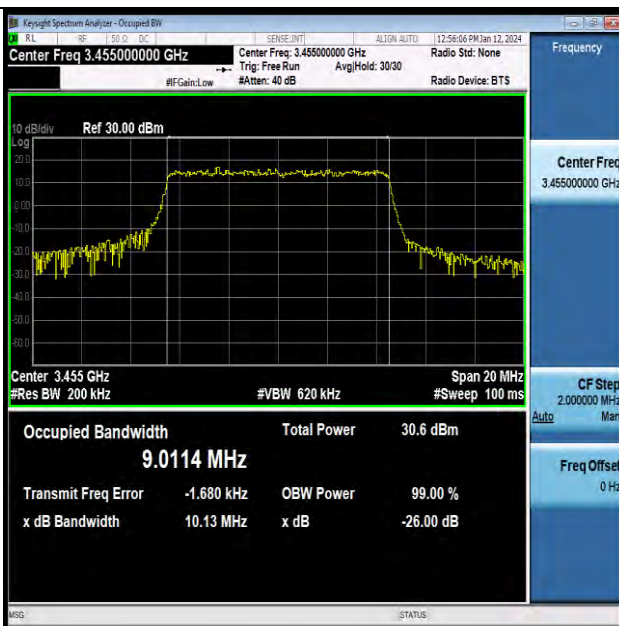
42(3450-3550)-5MHz-16QAM-42115-25RB#0-PASS



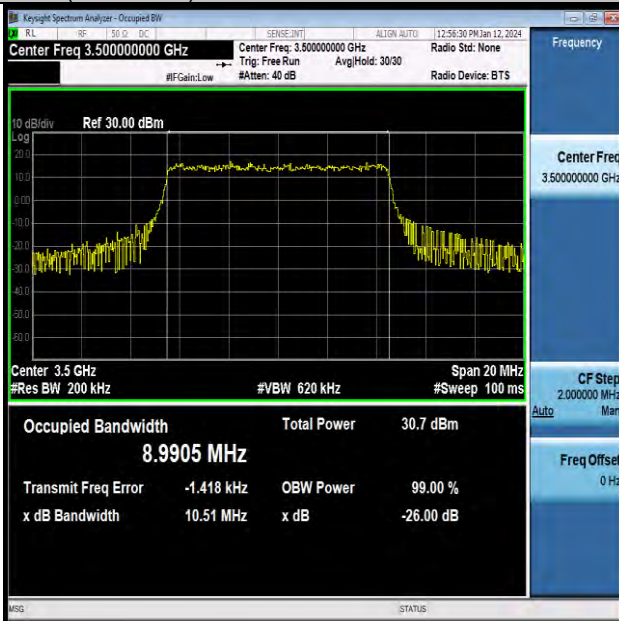
42(3450-3550)-5MHz-16QAM-42590-25RB#0-PASS



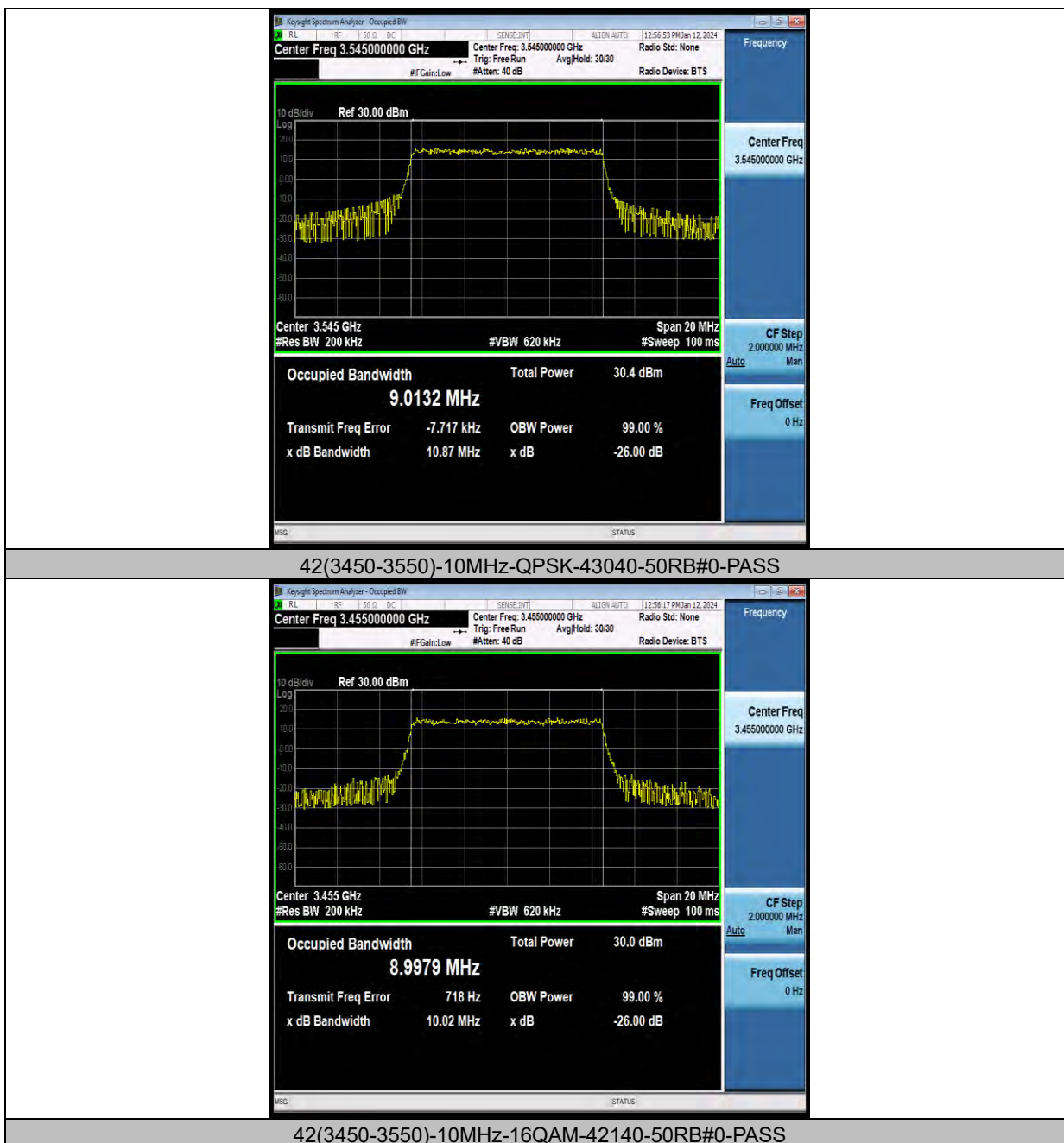
42(3450-3550)-5MHz-16QAM-43065-25RB#0-PASS

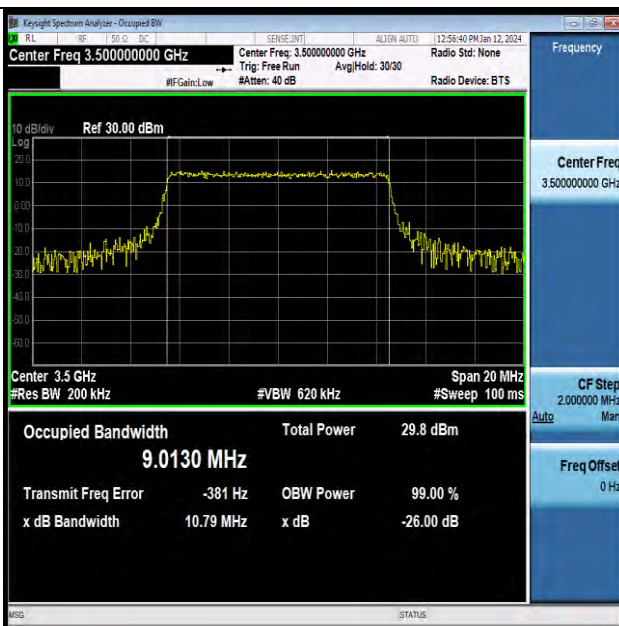


42(3450-3550)-10MHz-QPSK-42140-50RB#0-PASS



42(3450-3550)-10MHz-QPSK-42590-50RB#0-PASS

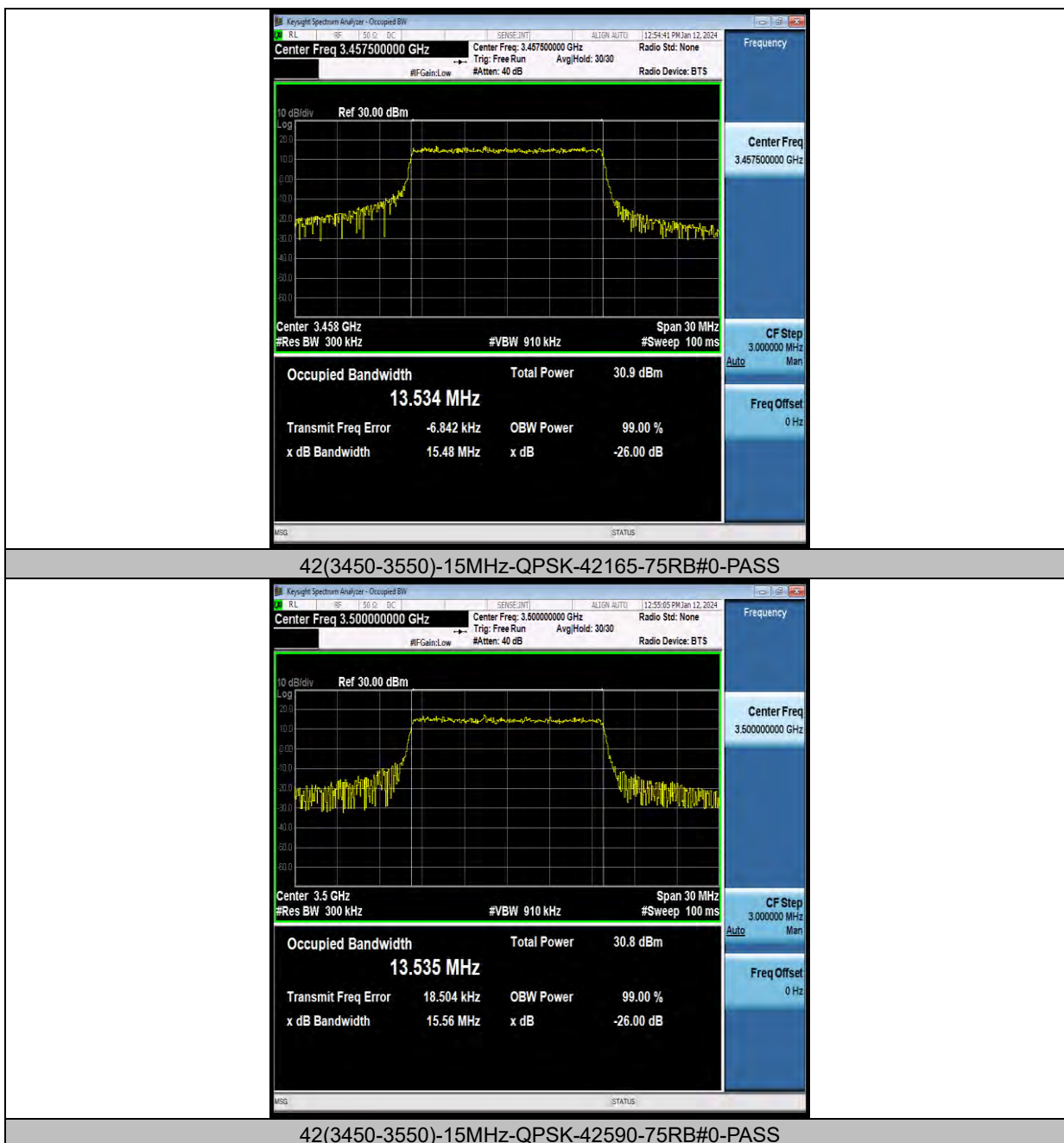


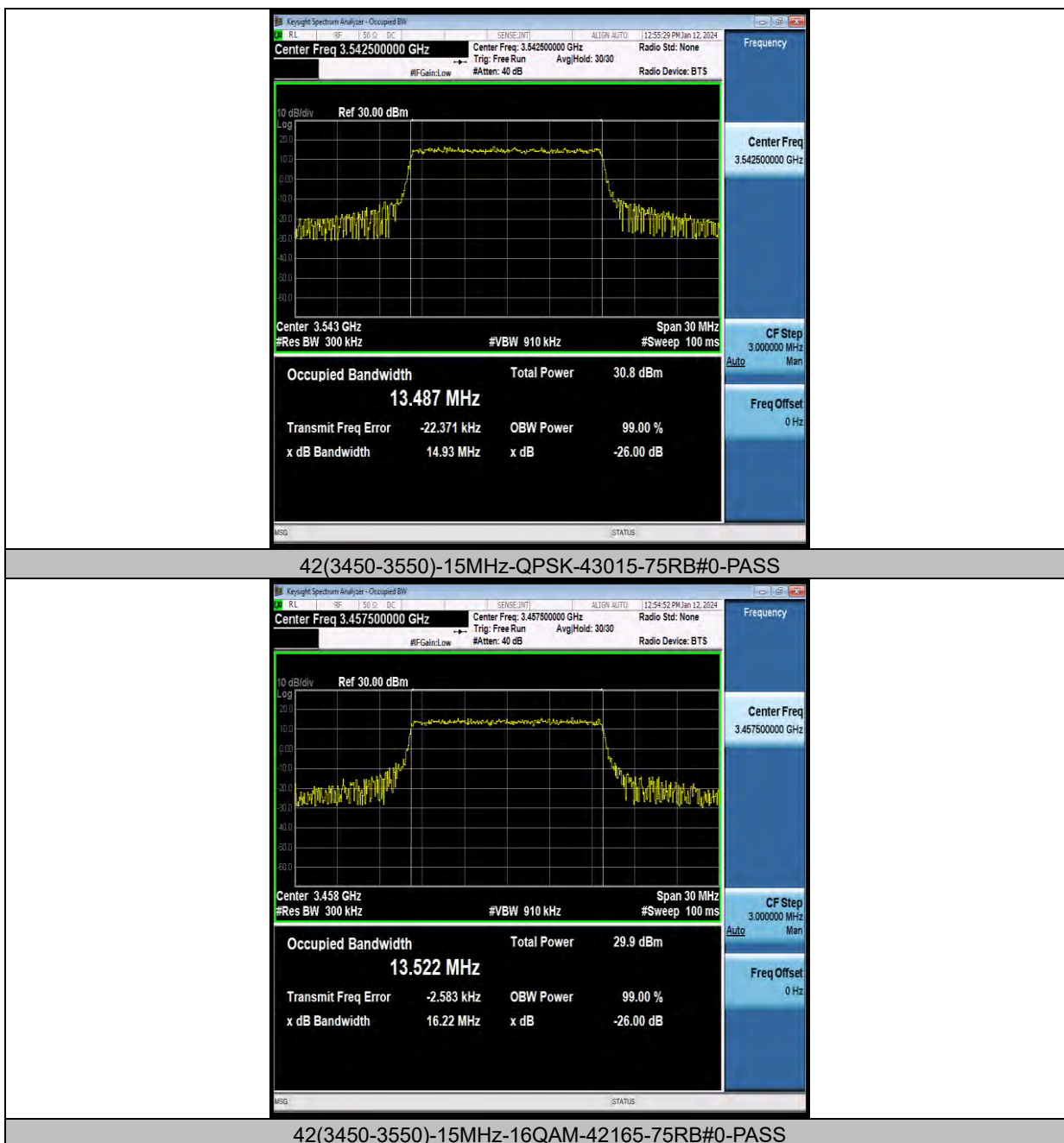


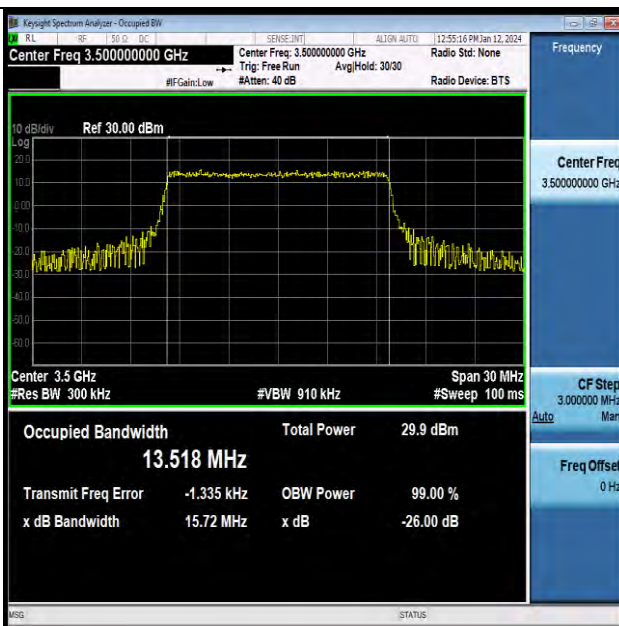
42(3450-3550)-10MHz-16QAM-42590-50RB#0-PASS



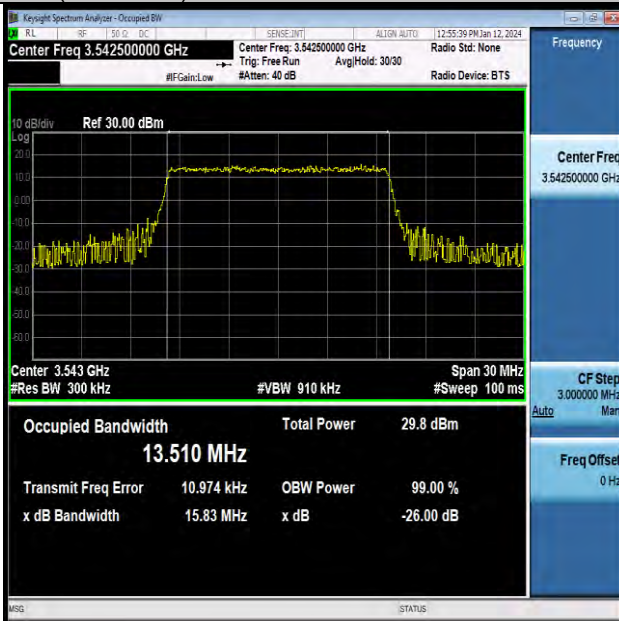
42(3450-3550)-10MHz-16QAM-43040-50RB#0-PASS



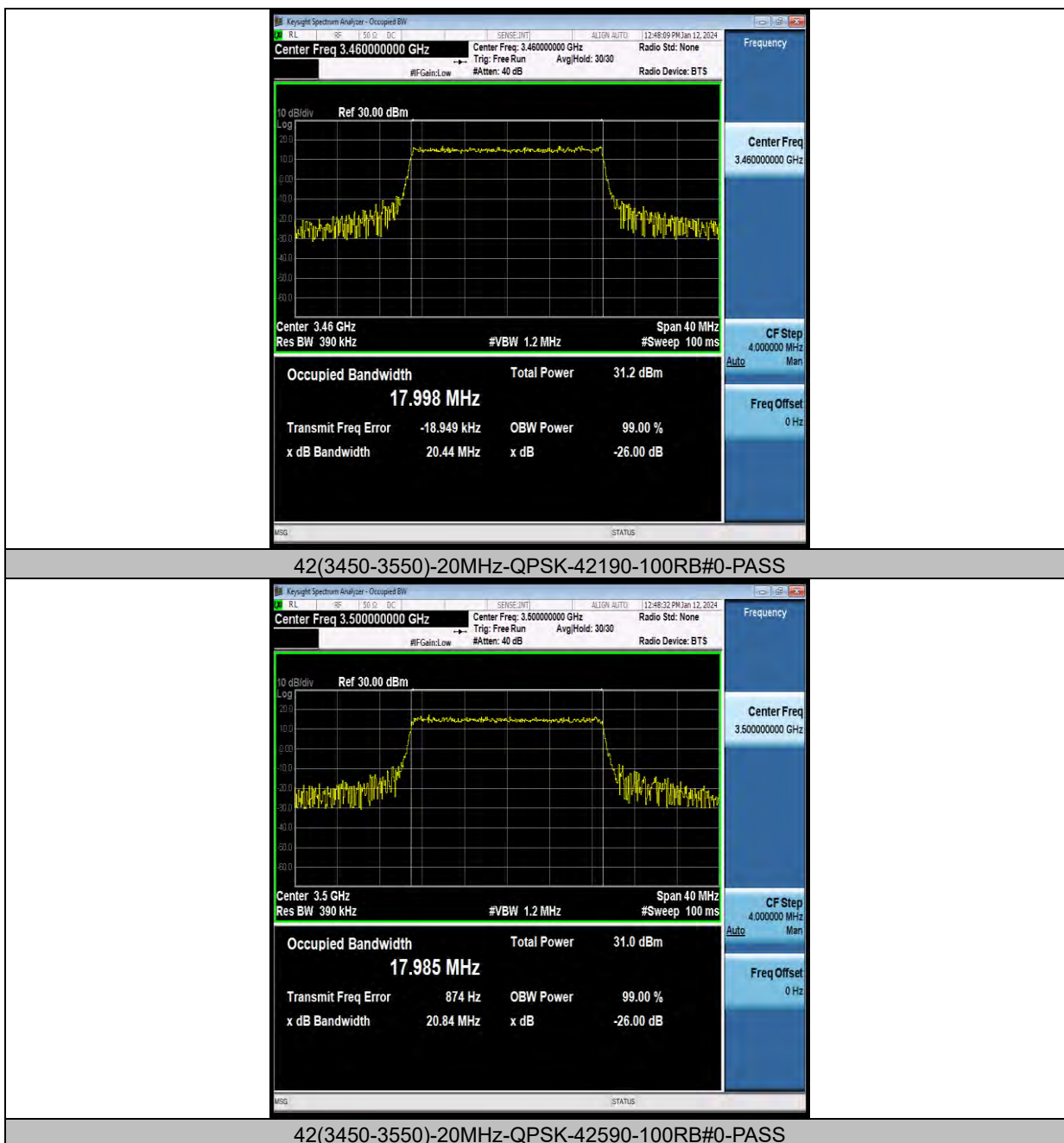


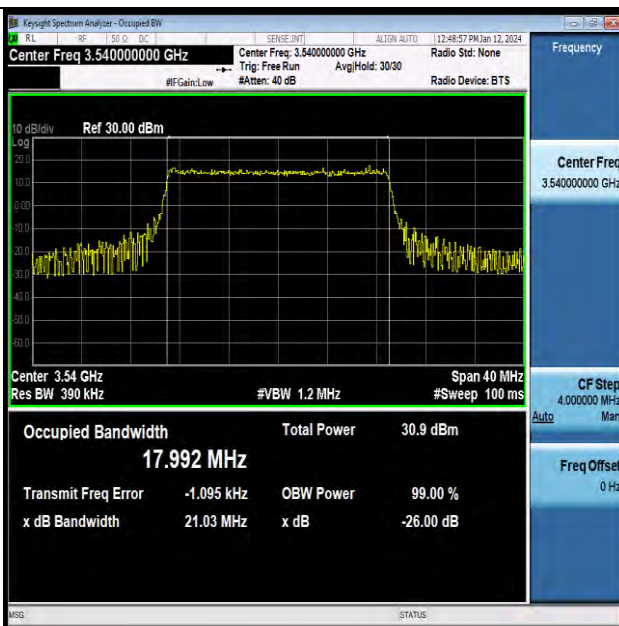


42(3450-3550)-15MHz-16QAM-42590-75RB#0-PASS

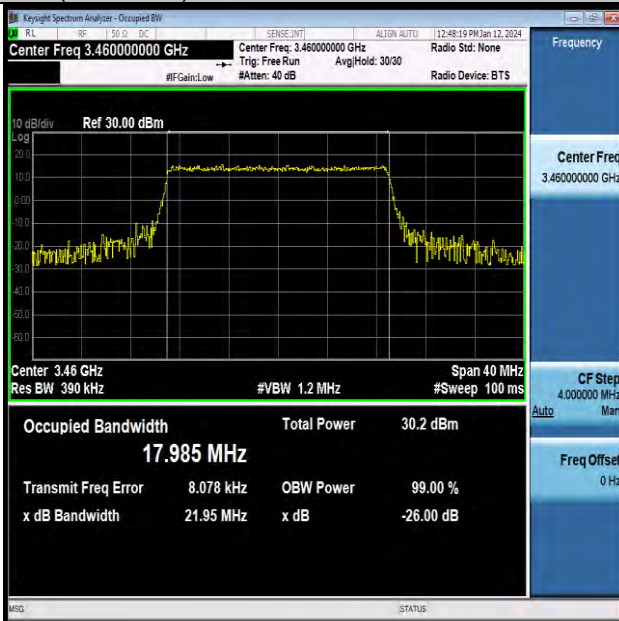


42(3450-3550)-15MHz-16QAM-43015-75RB#0-PASS

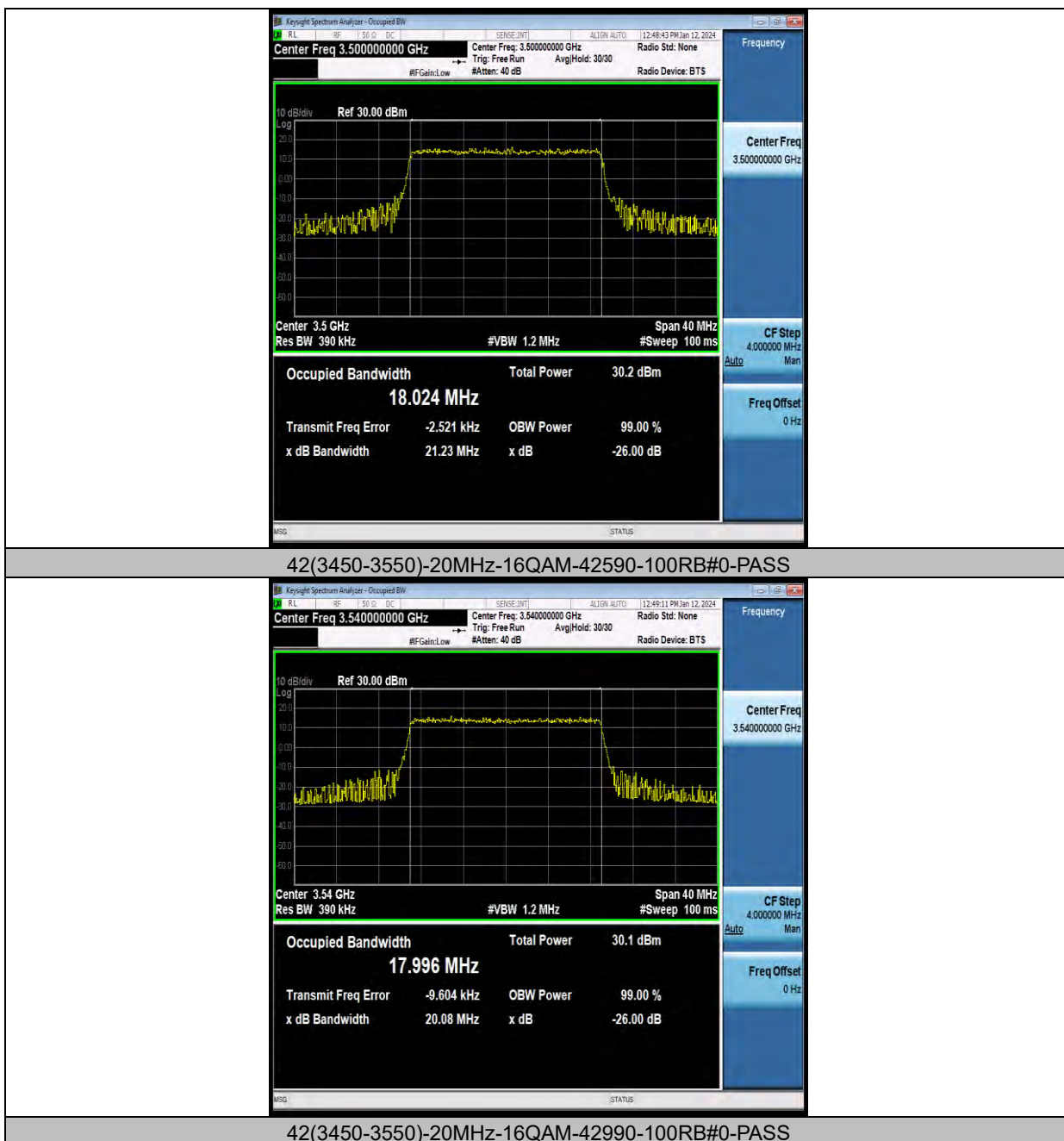




42(3450-3550)-20MHz-QPSK-42990-100RB#0-PASS



42(3450-3550)-20MHz-16QAM-42190-100RB#0-PASS

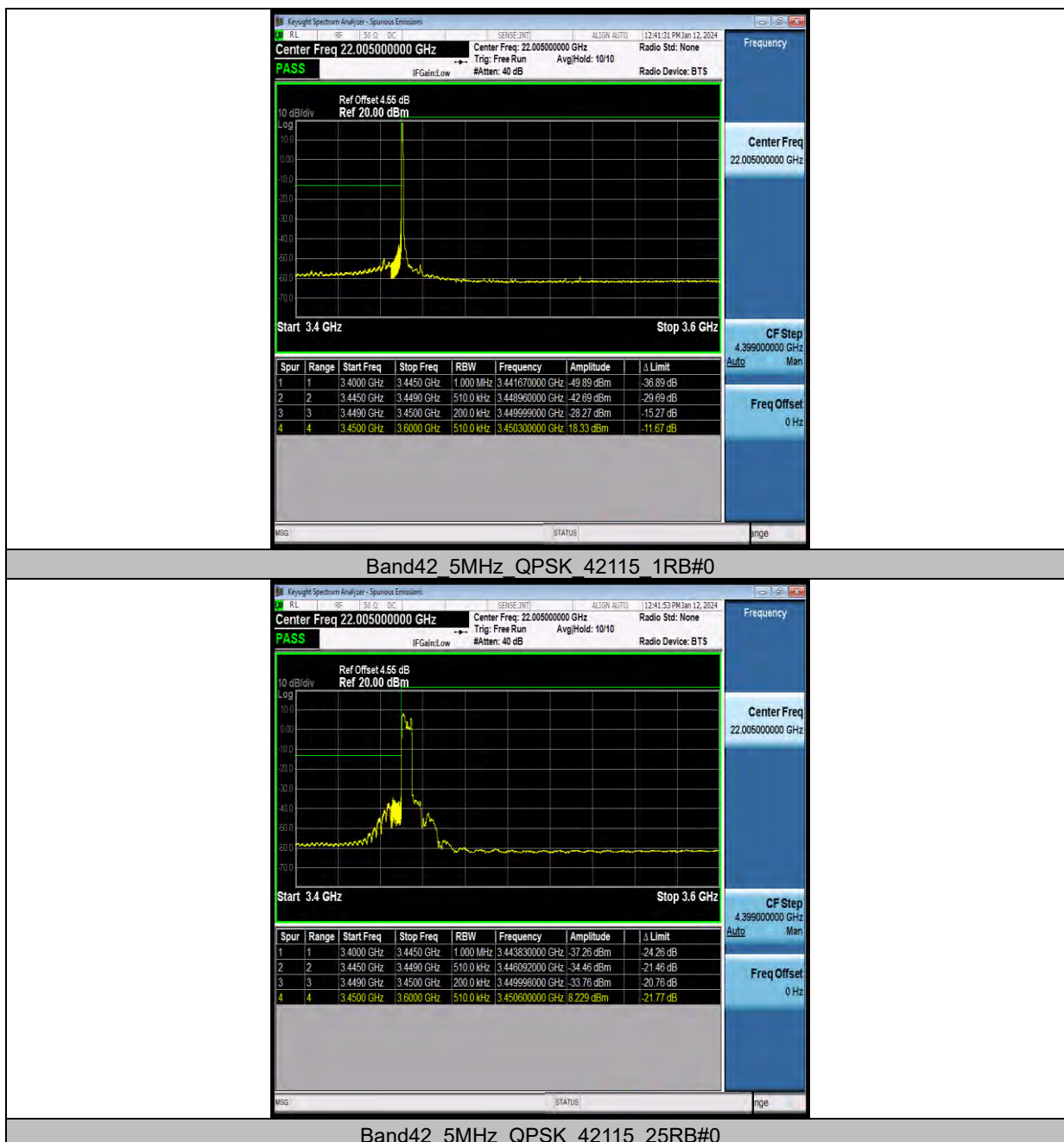


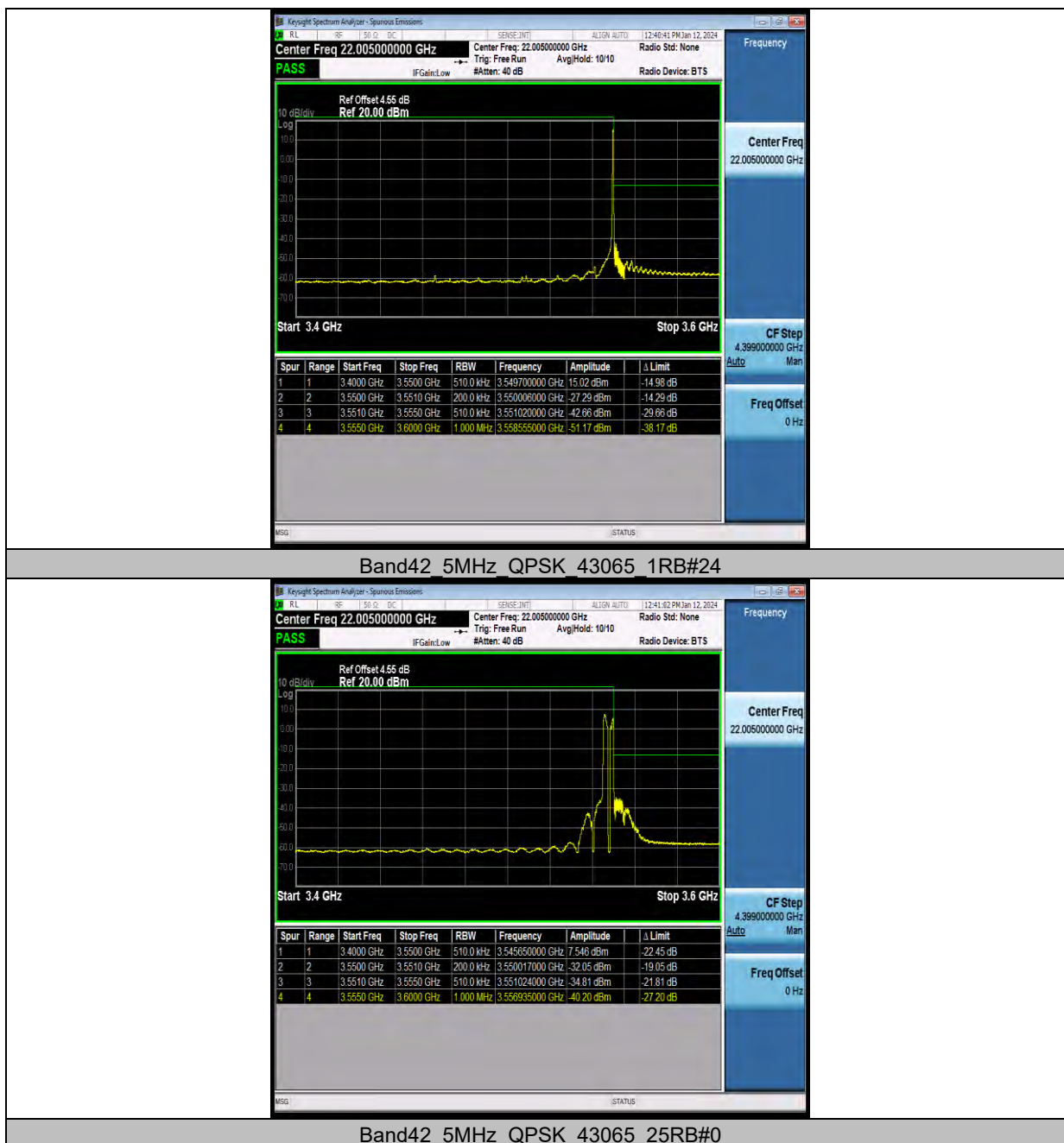
BAND EDGE

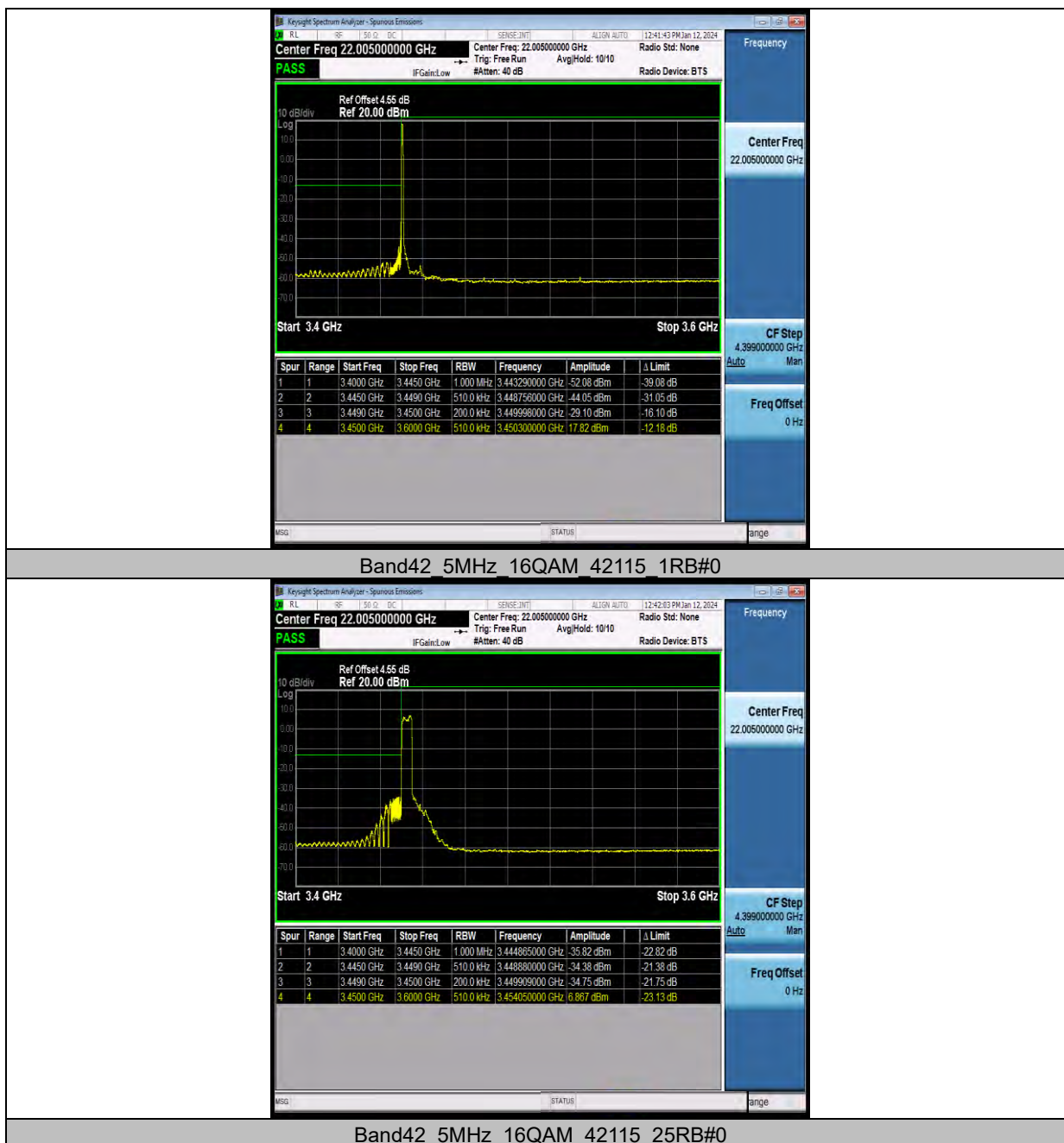
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
42(3450-3550)	5MHz	QPSK	42115	1RB#0	-28.27	PASS
42(3450-3550)	5MHz	QPSK	42115	25RB#0	-33.76	PASS
42(3450-3550)	5MHz	QPSK	43065	1RB#24	-27.29	PASS
42(3450-3550)	5MHz	QPSK	43065	25RB#0	-32.05	PASS
42(3450-3550)	5MHz	16QAM	42115	1RB#0	-29.10	PASS
42(3450-3550)	5MHz	16QAM	42115	25RB#0	-34.38	PASS
42(3450-3550)	5MHz	16QAM	43065	1RB#24	-29.18	PASS
42(3450-3550)	5MHz	16QAM	43065	25RB#0	-33.44	PASS
42(3450-3550)	10MHz	QPSK	42140	1RB#0	-35.53	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	-35.45	PASS
42(3450-3550)	10MHz	QPSK	43040	1RB#49	-36.94	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB#0	-35.99	PASS
42(3450-3550)	10MHz	16QAM	42140	1RB#0	-38.18	PASS
42(3450-3550)	10MHz	16QAM	42140	50RB#0	-35.19	PASS
42(3450-3550)	10MHz	16QAM	43040	1RB#49	-38.30	PASS
42(3450-3550)	10MHz	16QAM	43040	50RB#0	-35.36	PASS
42(3450-3550)	15MHz	QPSK	42165	1RB#0	-37.20	PASS
42(3450-3550)	15MHz	QPSK	42165	75RB#0	-36.21	PASS
42(3450-3550)	15MHz	QPSK	43015	1RB#74	-42.65	PASS
42(3450-3550)	15MHz	QPSK	43015	75RB#0	-36.32	PASS
42(3450-3550)	15MHz	16QAM	42165	1RB#0	-36.88	PASS
42(3450-3550)	15MHz	16QAM	42165	75RB#0	-36.82	PASS
42(3450-3550)	15MHz	16QAM	43015	1RB#74	-42.70	PASS
42(3450-3550)	15MHz	16QAM	43015	75RB#0	-35.51	PASS
42(3450-3550)	20MHz	QPSK	42190	1RB#0	-42.78	PASS
42(3450-3550)	20MHz	QPSK	42190	100RB#0	-37.61	PASS
42(3450-3550)	20MHz	QPSK	42990	1RB#99	-42.46	PASS
42(3450-3550)	20MHz	QPSK	42990	100RB#0	-36.70	PASS
42(3450-3550)	20MHz	16QAM	42190	1RB#0	-43.38	PASS
42(3450-3550)	20MHz	16QAM	42190	100RB#0	-37.27	PASS
42(3450-3550)	20MHz	16QAM	42990	1RB#99	-44.69	PASS
42(3450-3550)	20MHz	16QAM	42990	100RB#0	-36.41	PASS

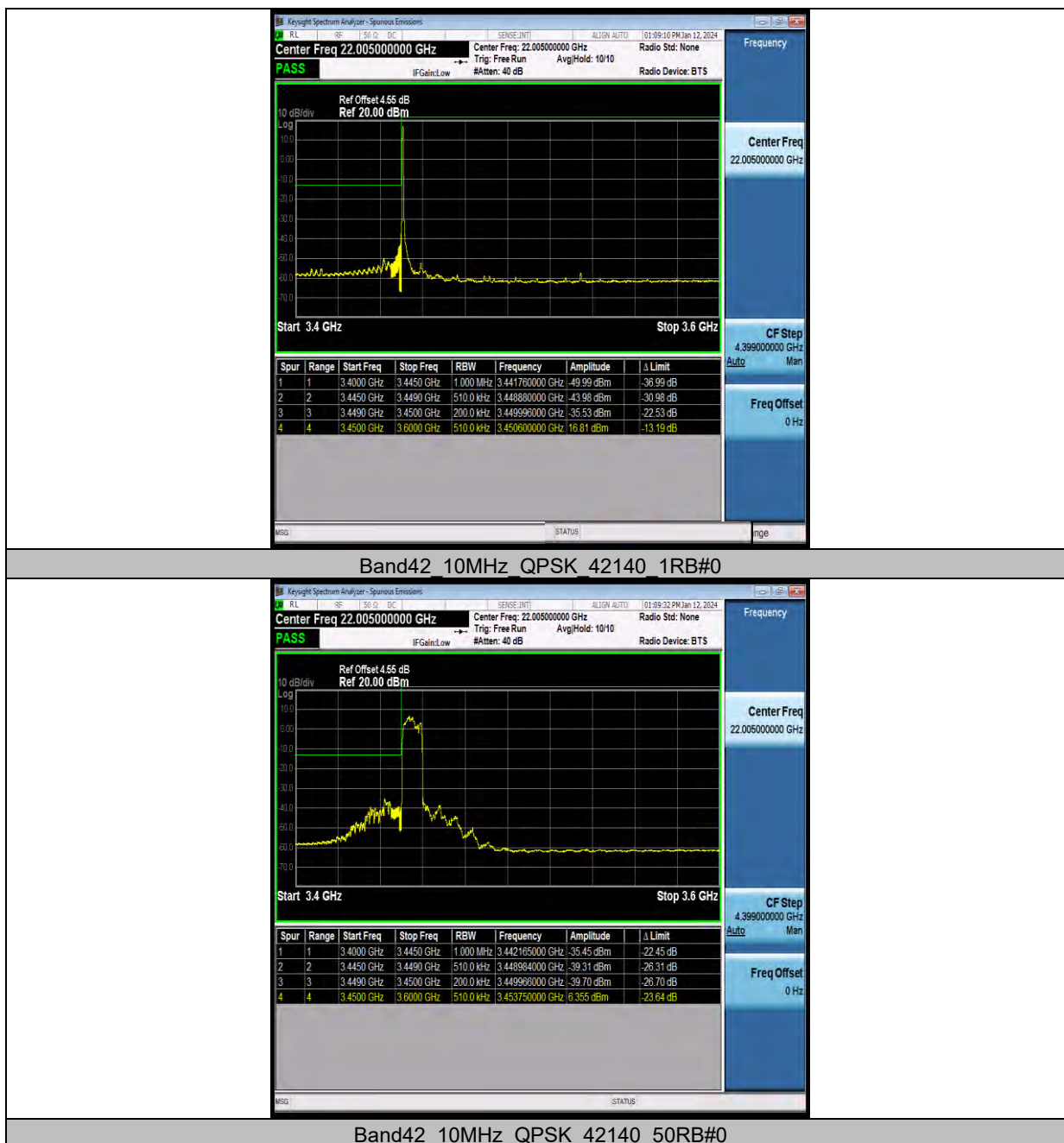
Test Graphs

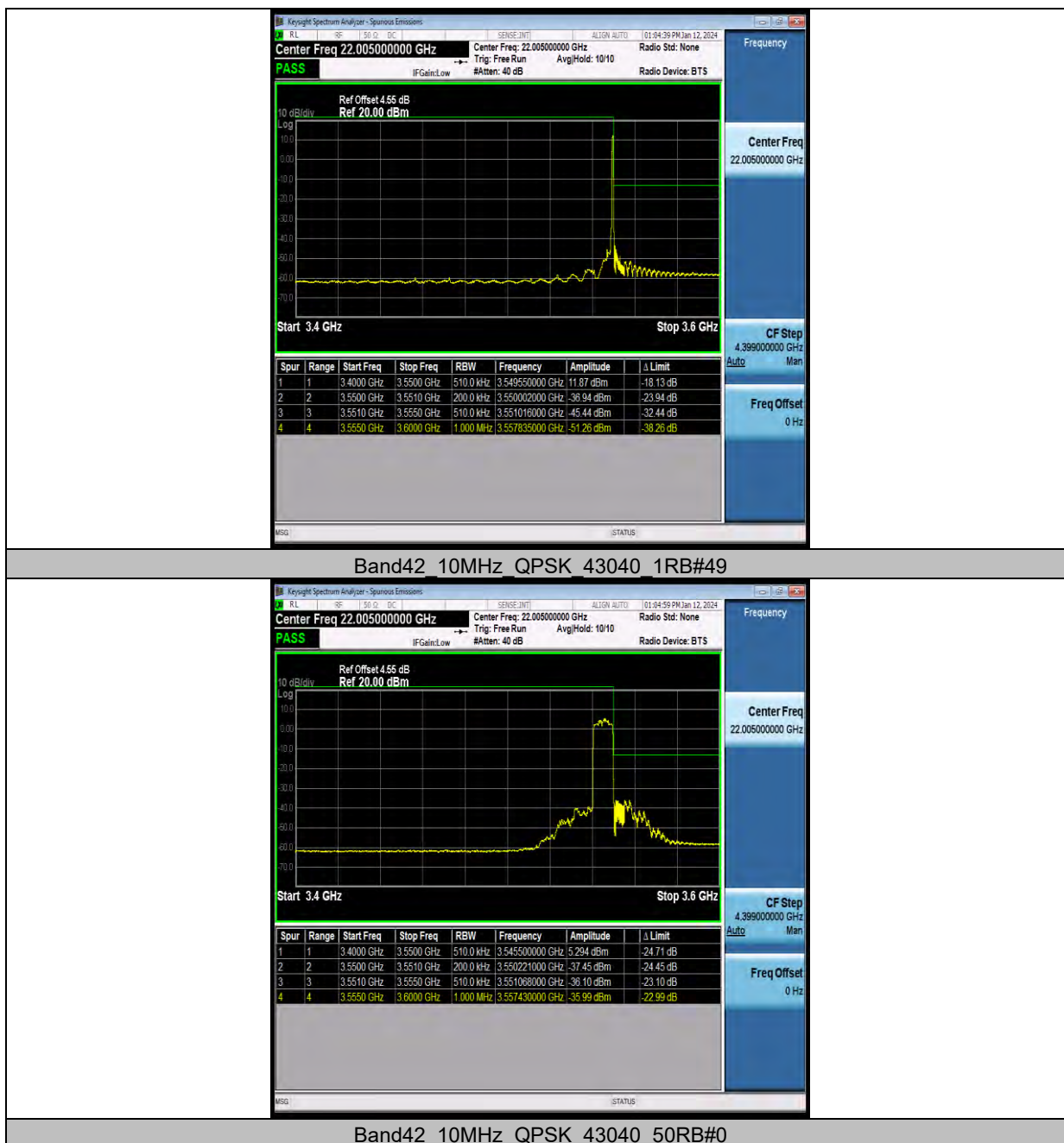


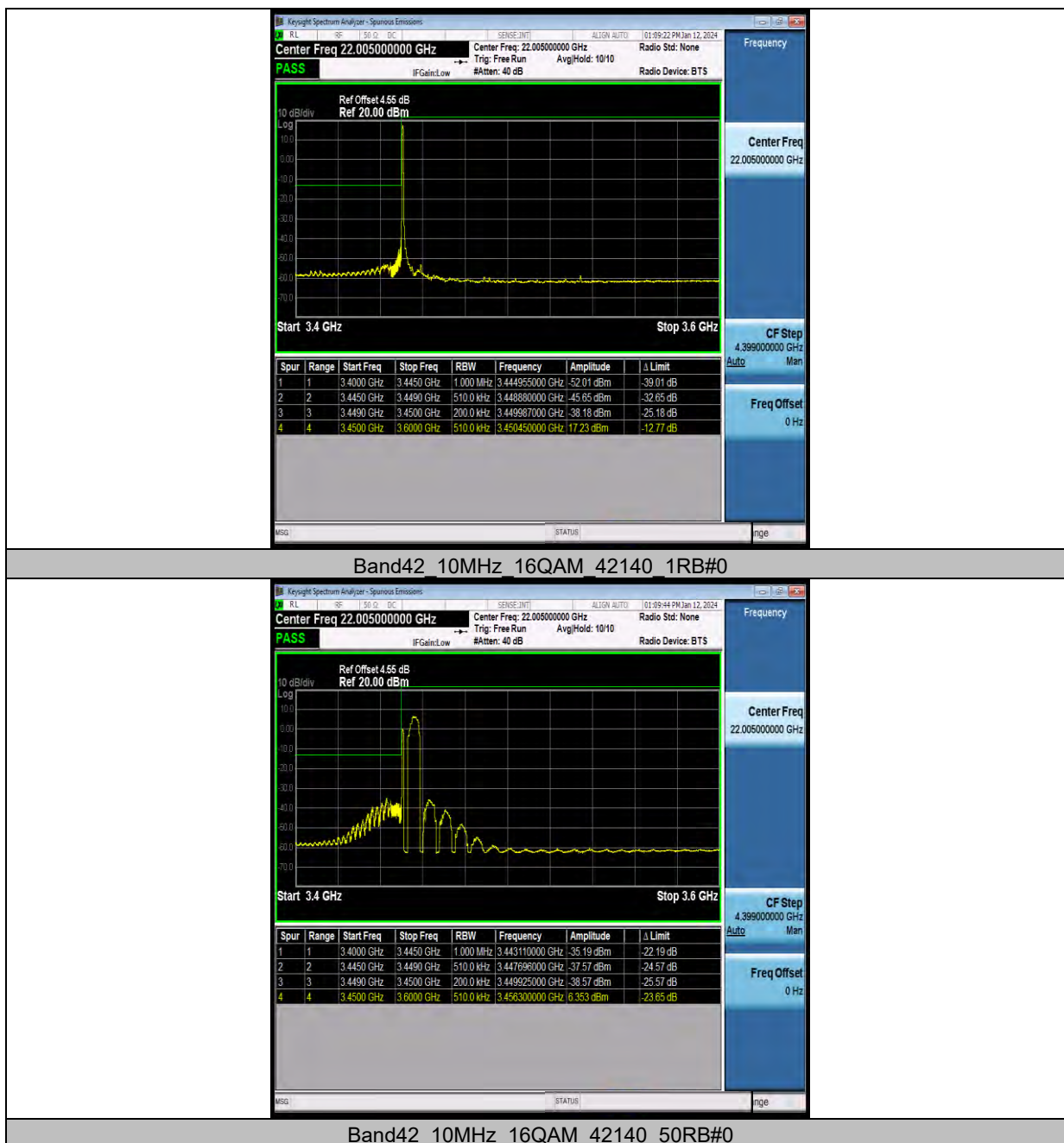


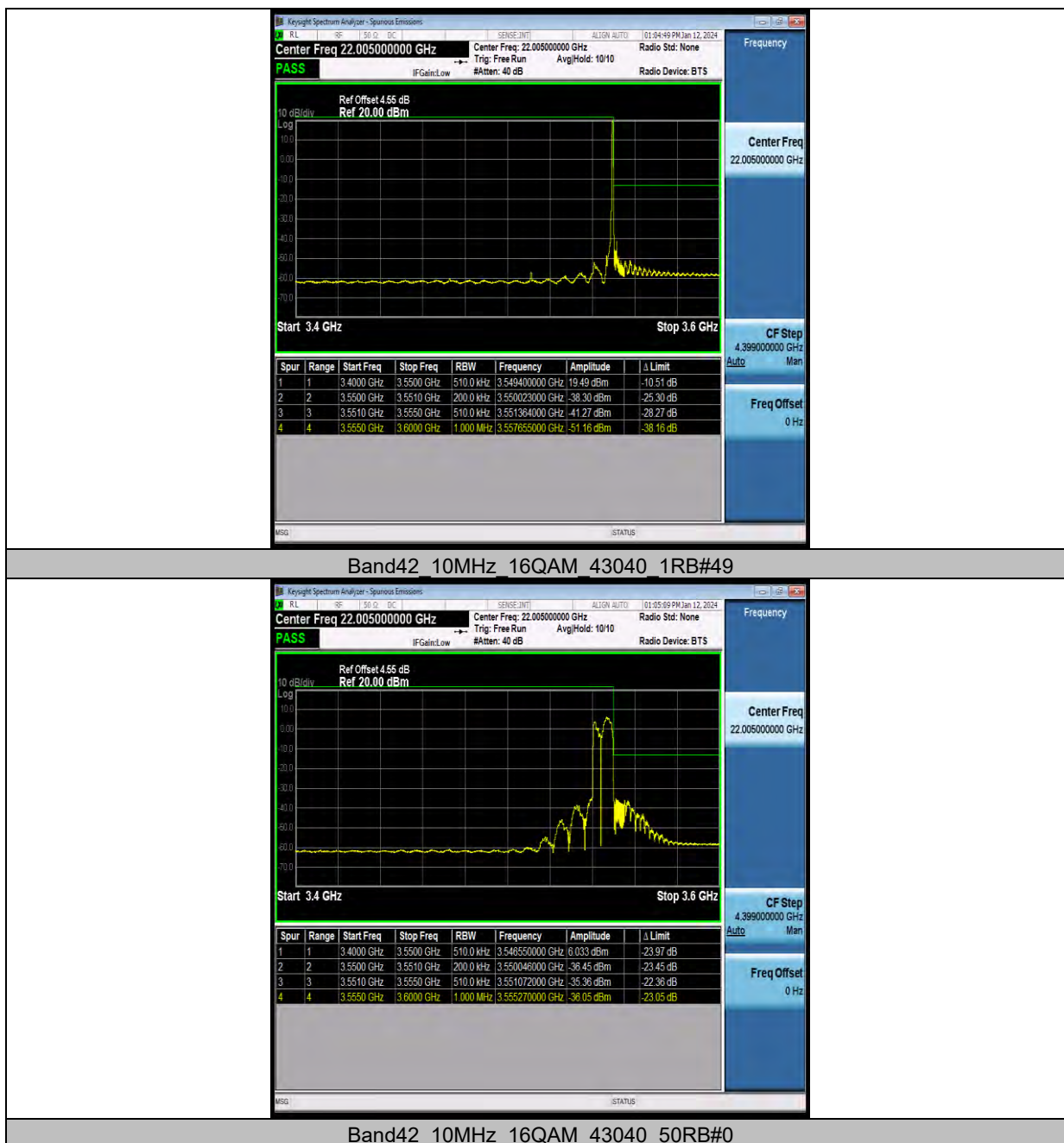


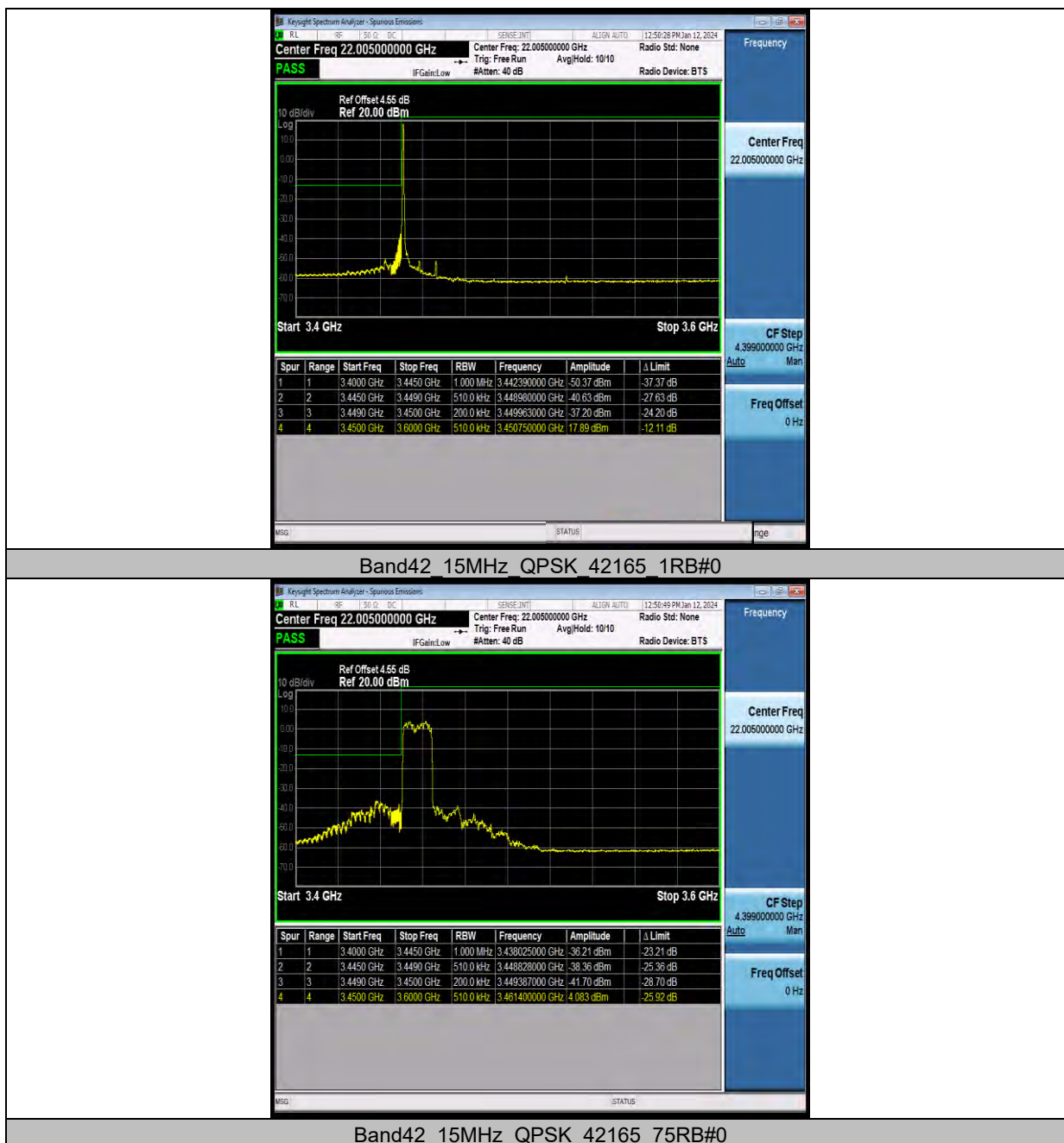




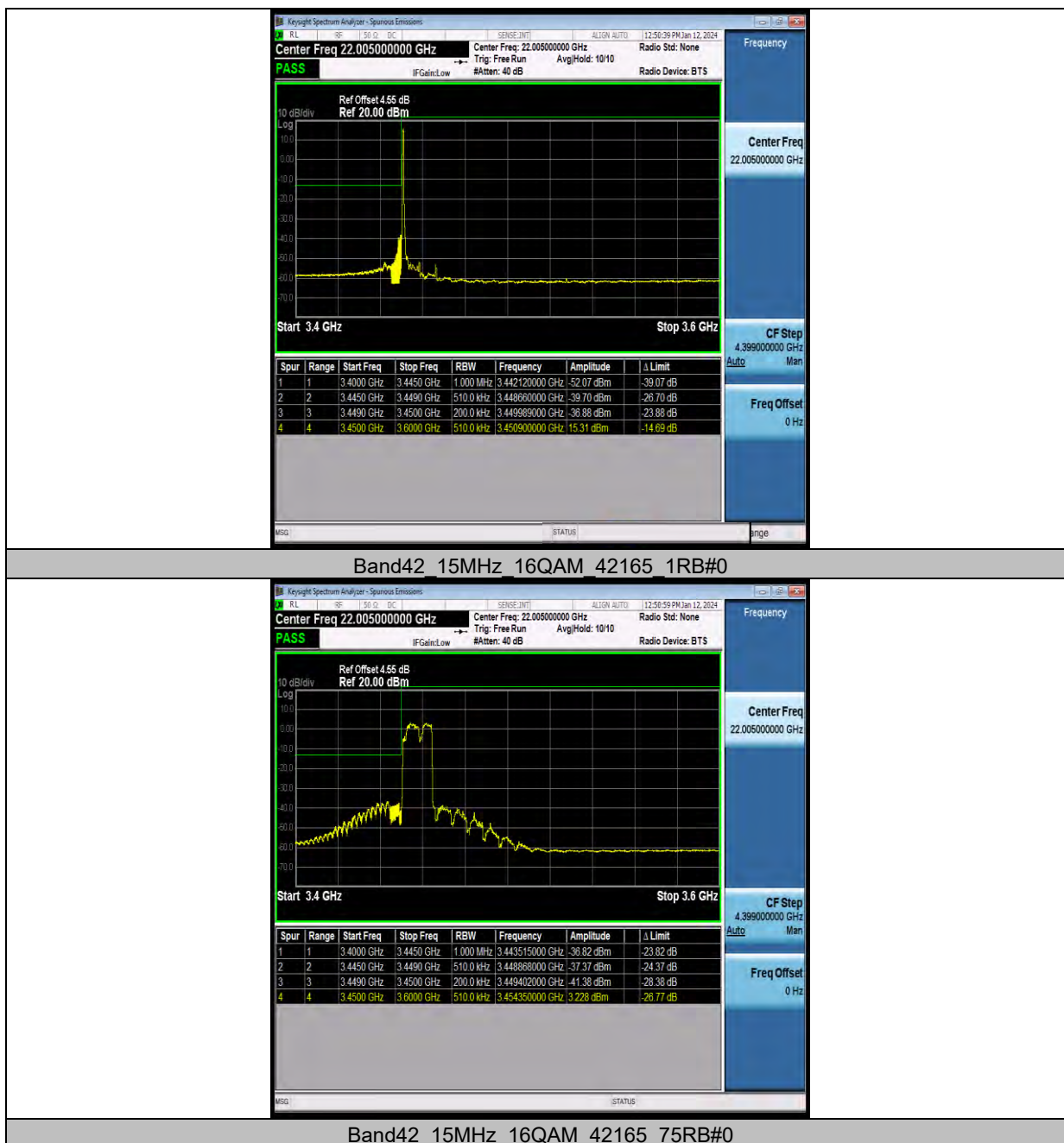


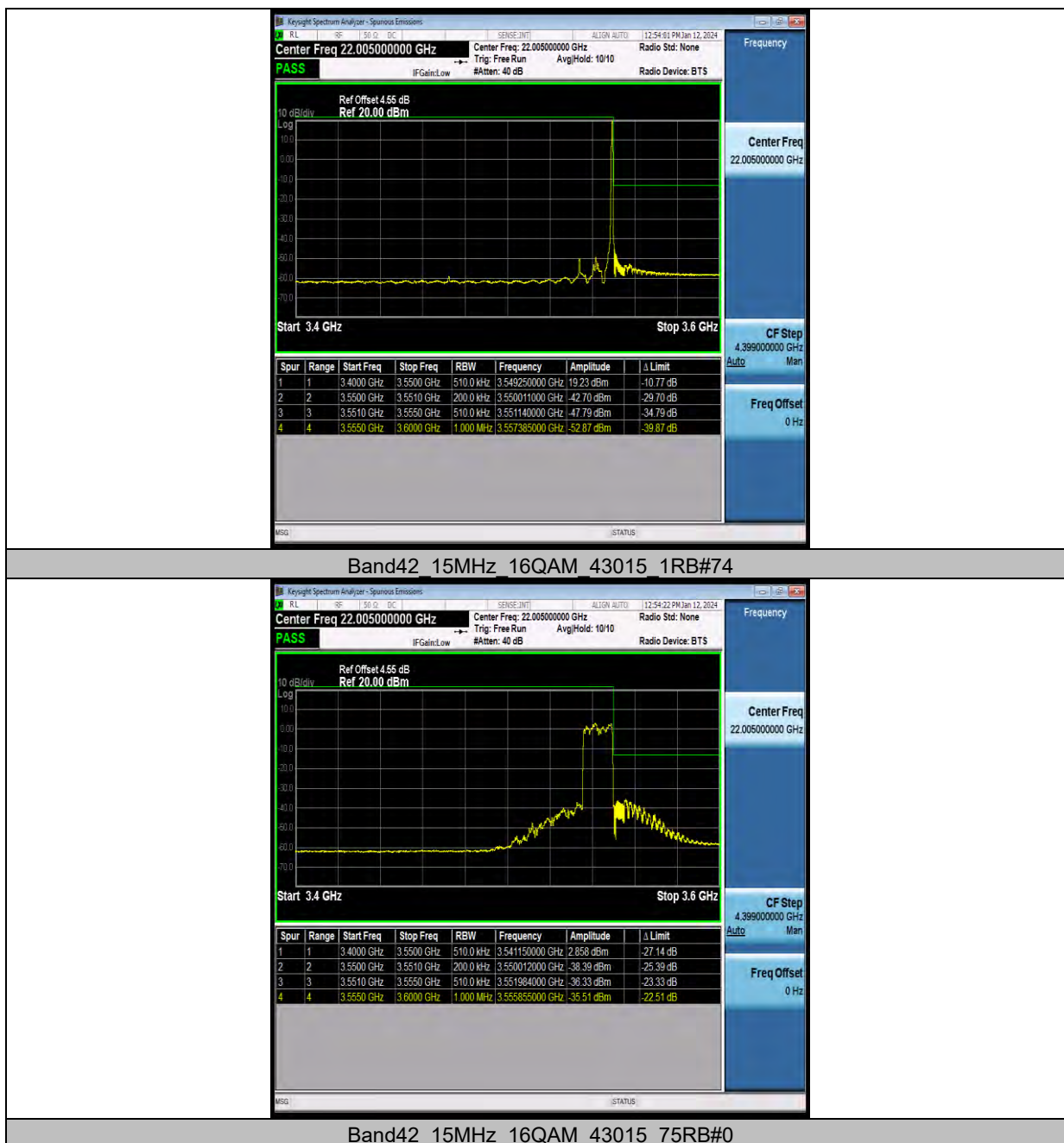


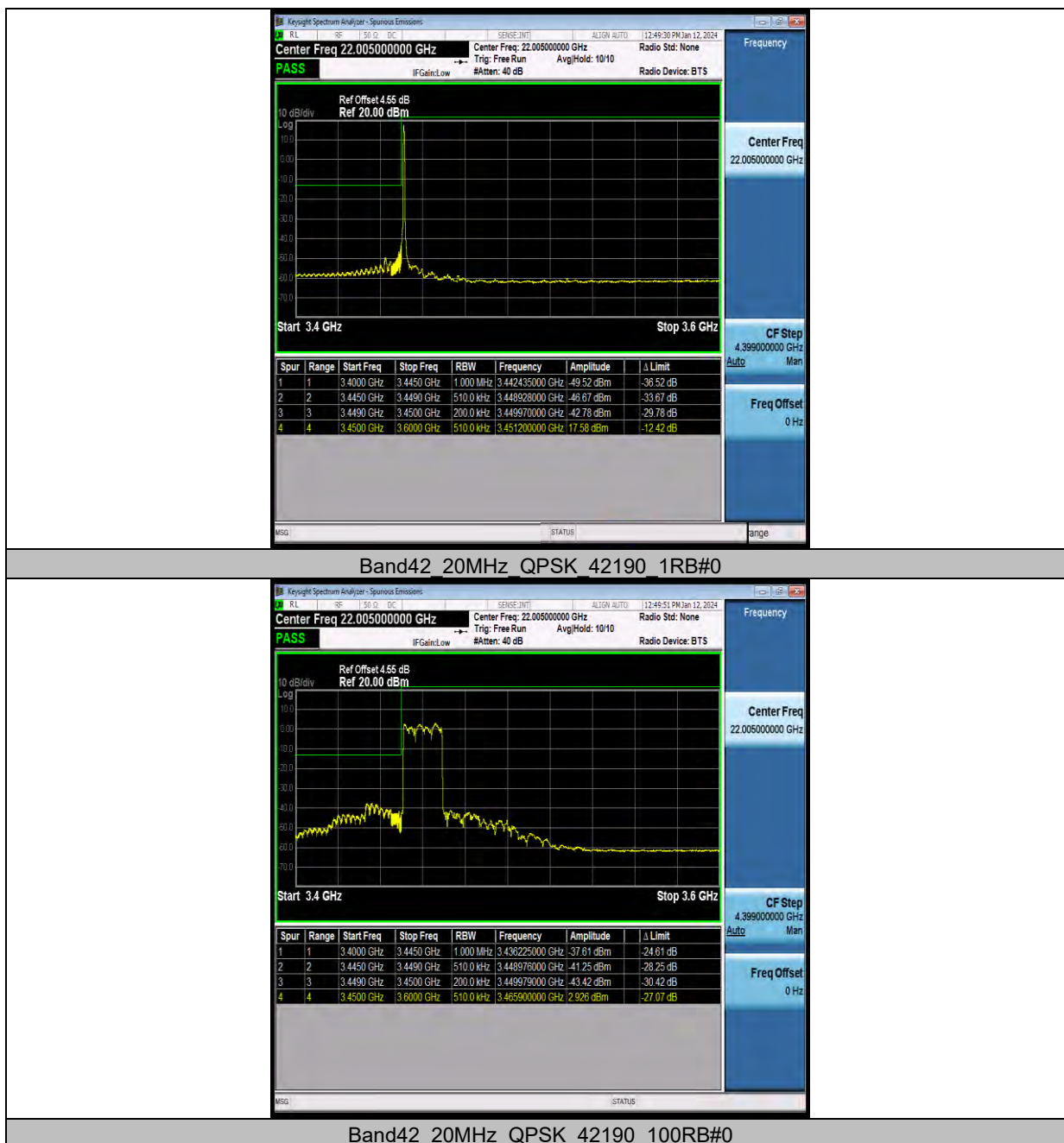




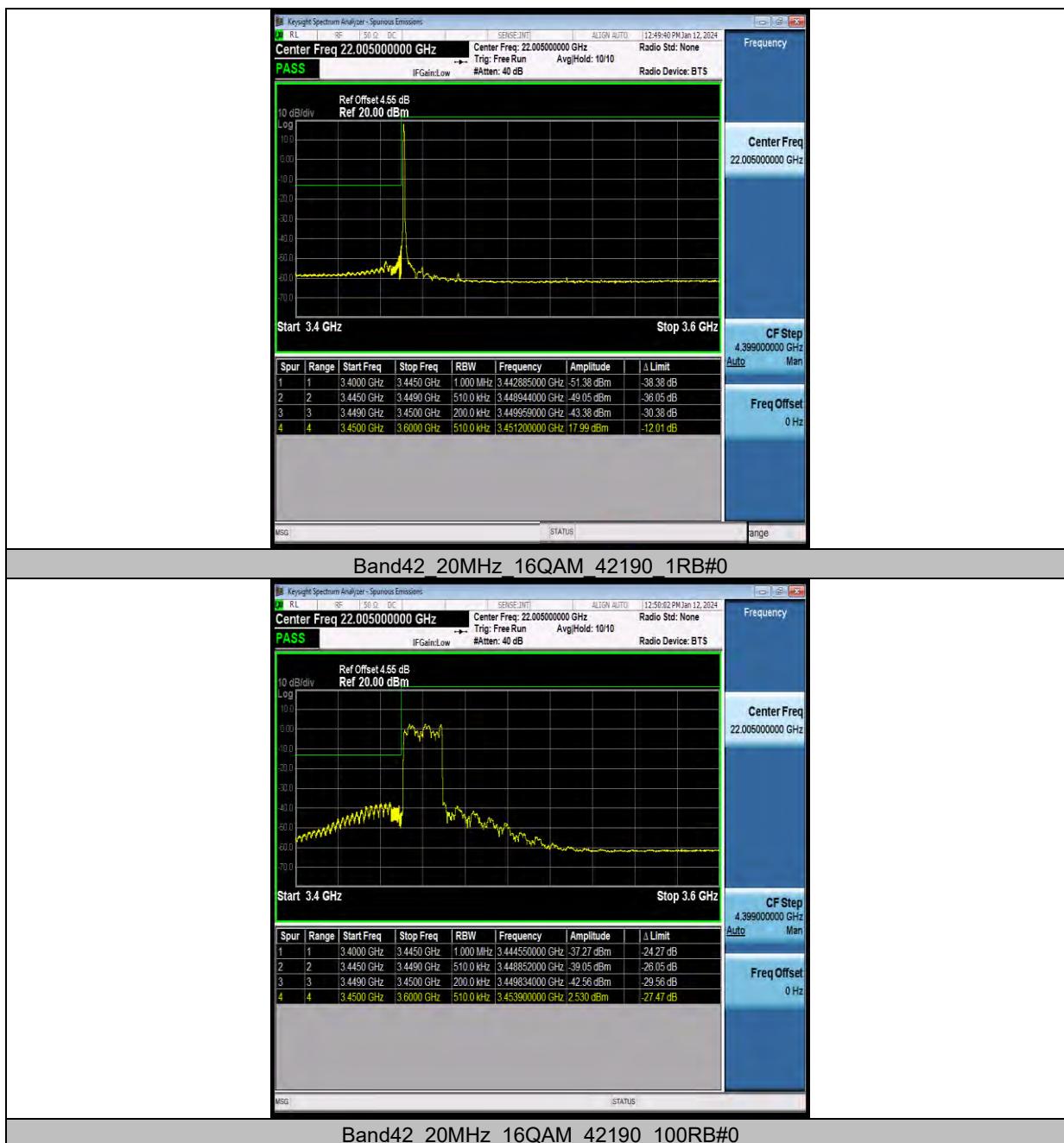












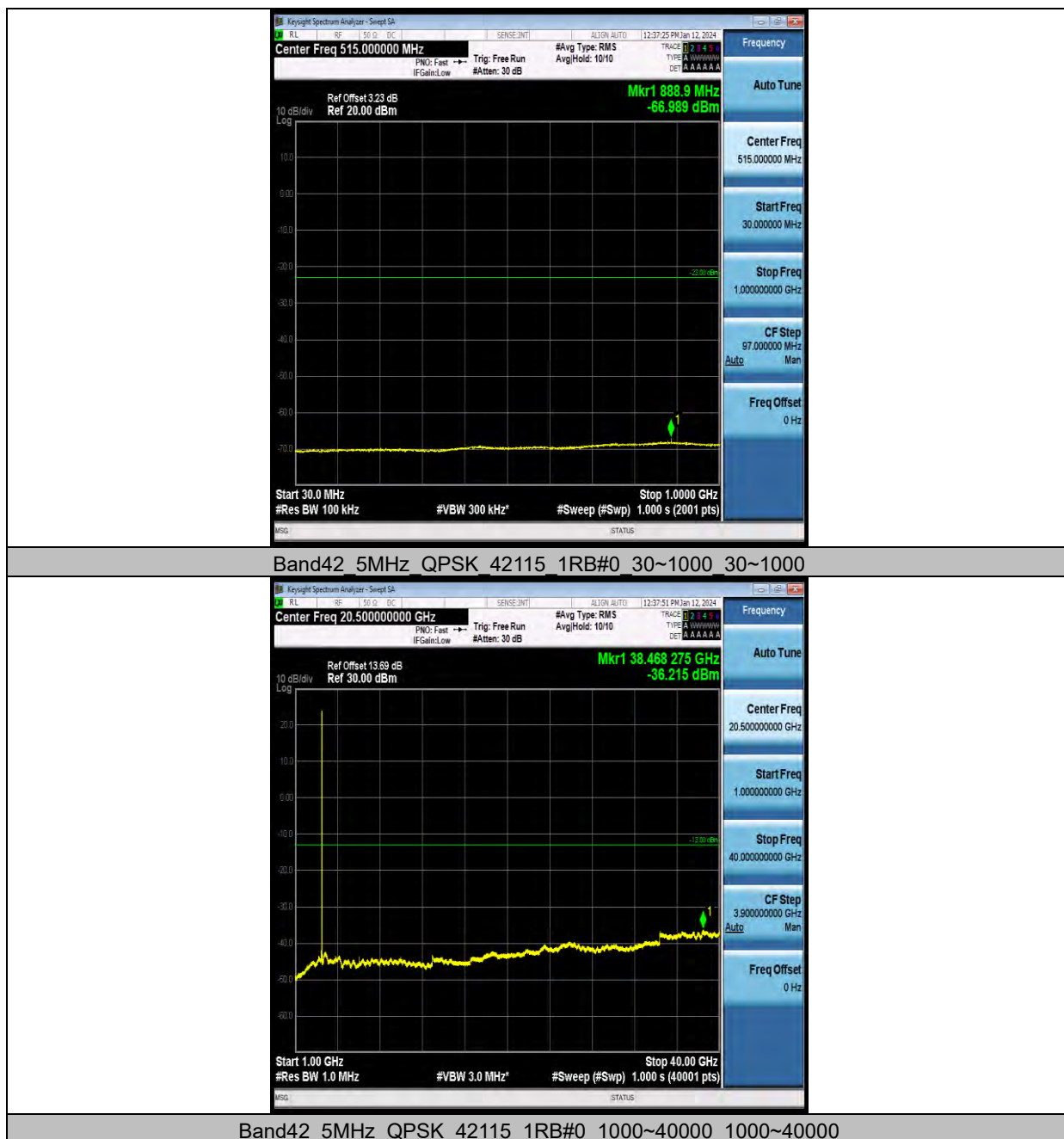


CONDUCTED SPURIOUS EMISSION

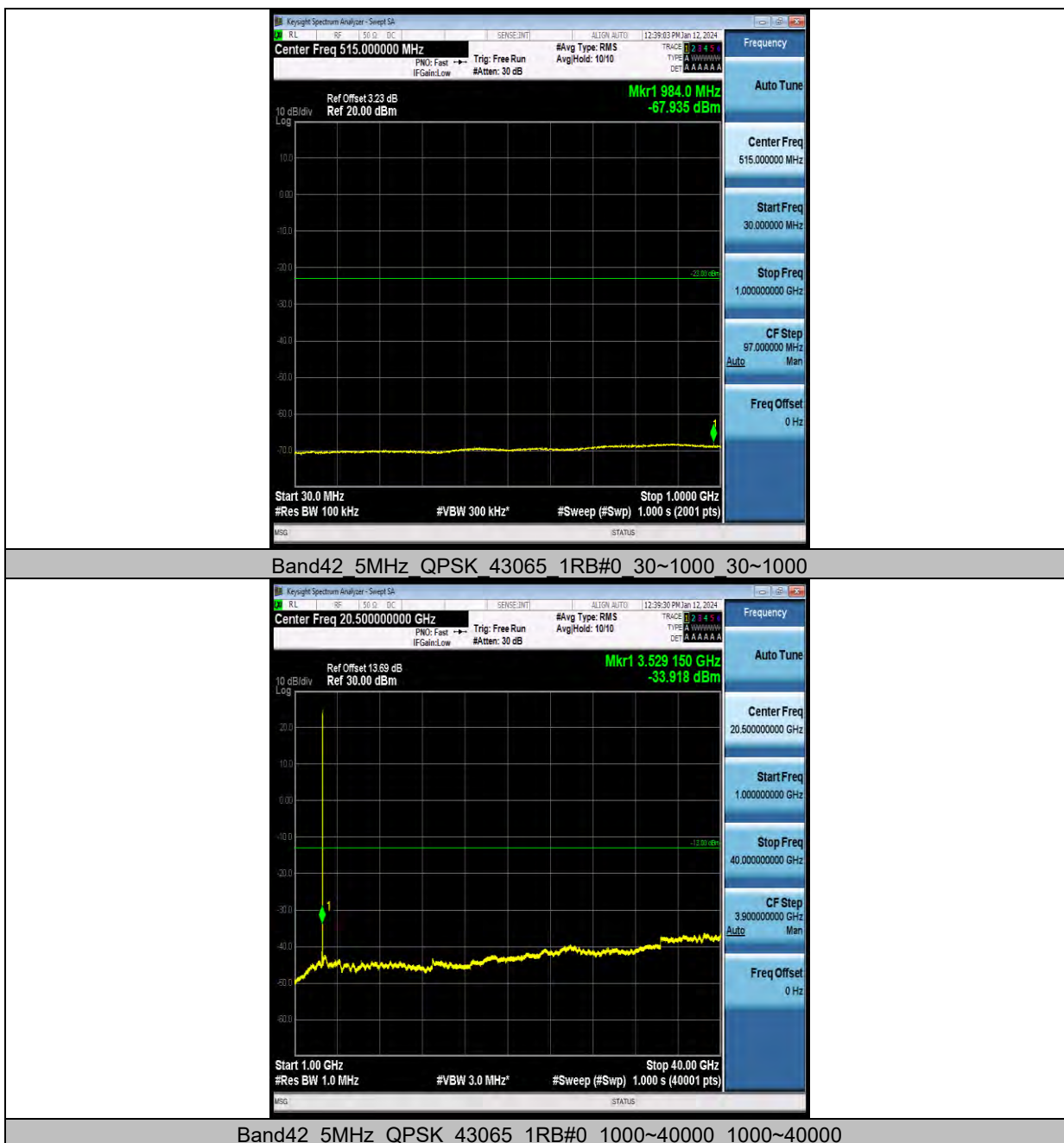
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
42(3450-3550)	5MHz	QPSK	42115	1RB#0	30~1000	-66.99	PASS
42(3450-3550)	5MHz	QPSK	42115	1RB#0	1000~40000	-36.22	PASS
42(3450-3550)	5MHz	QPSK	42590	1RB#0	30~1000	-66.67	PASS
42(3450-3550)	5MHz	QPSK	42590	1RB#0	1000~40000	-32.63	PASS
42(3450-3550)	5MHz	QPSK	43065	1RB#0	30~1000	-67.94	PASS
42(3450-3550)	5MHz	QPSK	43065	1RB#0	1000~40000	-33.92	PASS
42(3450-3550)	10MHz	QPSK	42140	1RB#0	30~1000	-66.84	PASS
42(3450-3550)	10MHz	QPSK	42140	1RB#0	1000~40000	-35.33	PASS
42(3450-3550)	10MHz	QPSK	42590	1RB#0	30~1000	-66.83	PASS
42(3450-3550)	10MHz	QPSK	42590	1RB#0	1000~40000	-36.39	PASS
42(3450-3550)	10MHz	QPSK	43040	1RB#0	30~1000	-67.80	PASS
42(3450-3550)	10MHz	QPSK	43040	1RB#0	1000~40000	-36.44	PASS
42(3450-3550)	15MHz	QPSK	42165	1RB#0	30~1000	-67.25	PASS
42(3450-3550)	15MHz	QPSK	42165	1RB#0	1000~40000	-36.31	PASS
42(3450-3550)	15MHz	QPSK	42590	1RB#0	30~1000	-67.92	PASS
42(3450-3550)	15MHz	QPSK	42590	1RB#0	1000~40000	-36.41	PASS
42(3450-3550)	15MHz	QPSK	43015	1RB#0	30~1000	-67.98	PASS
42(3450-3550)	15MHz	QPSK	43015	1RB#0	1000~40000	-36.37	PASS
42(3450-3550)	20MHz	QPSK	42190	1RB#0	30~1000	-67.15	PASS
42(3450-3550)	20MHz	QPSK	42190	1RB#0	1000~40000	-36.25	PASS
42(3450-3550)	20MHz	QPSK	42590	1RB#0	30~1000	-67.21	PASS
42(3450-3550)	20MHz	QPSK	42590	1RB#0	1000~40000	-36.31	PASS
42(3450-3550)	20MHz	QPSK	42990	1RB#0	30~1000	-67.64	PASS
42(3450-3550)	20MHz	QPSK	42990	1RB#0	1000~40000	-36.42	PASS

Test Graphs









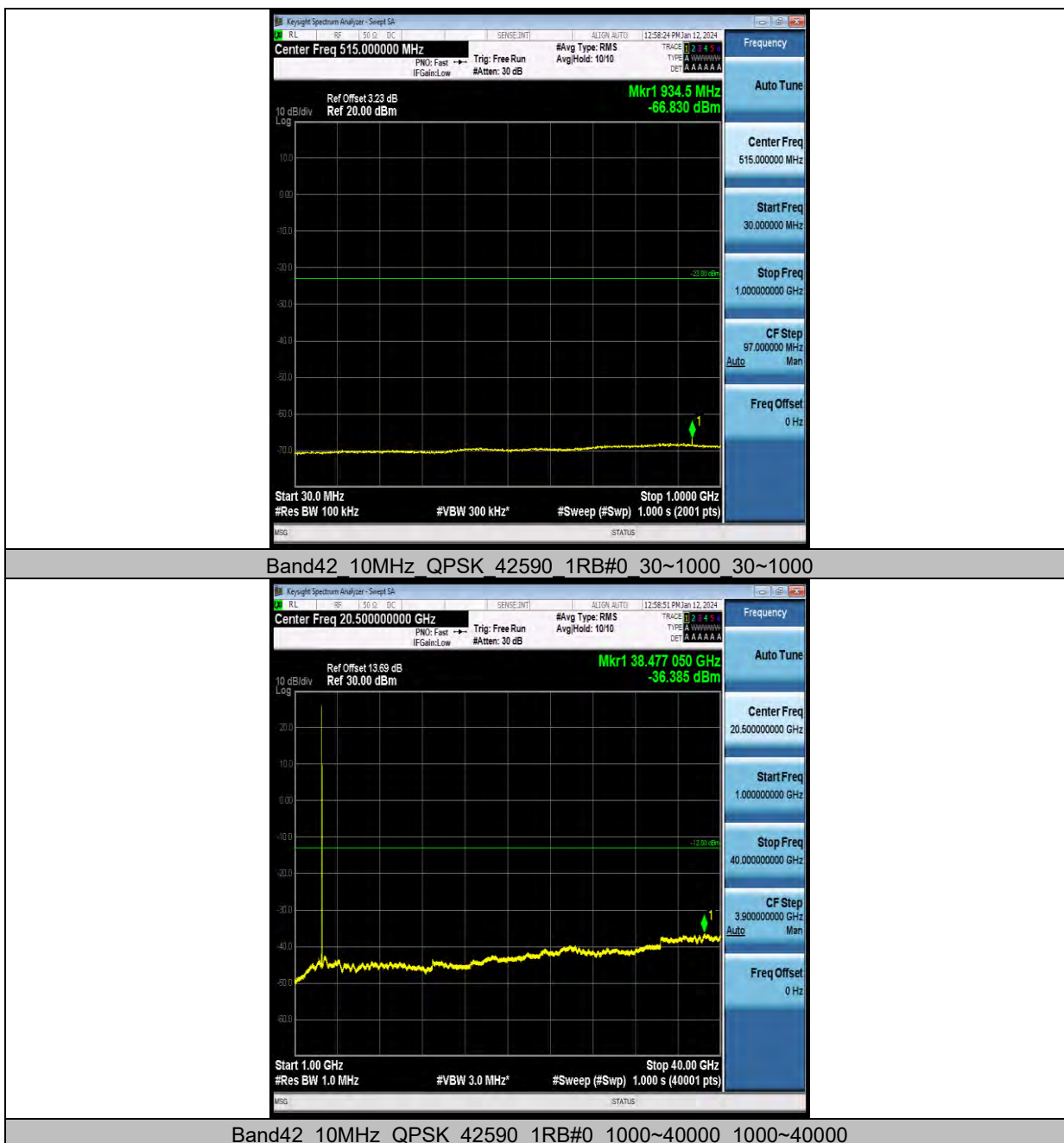
Test Report No.: W7L-P23120020RF04

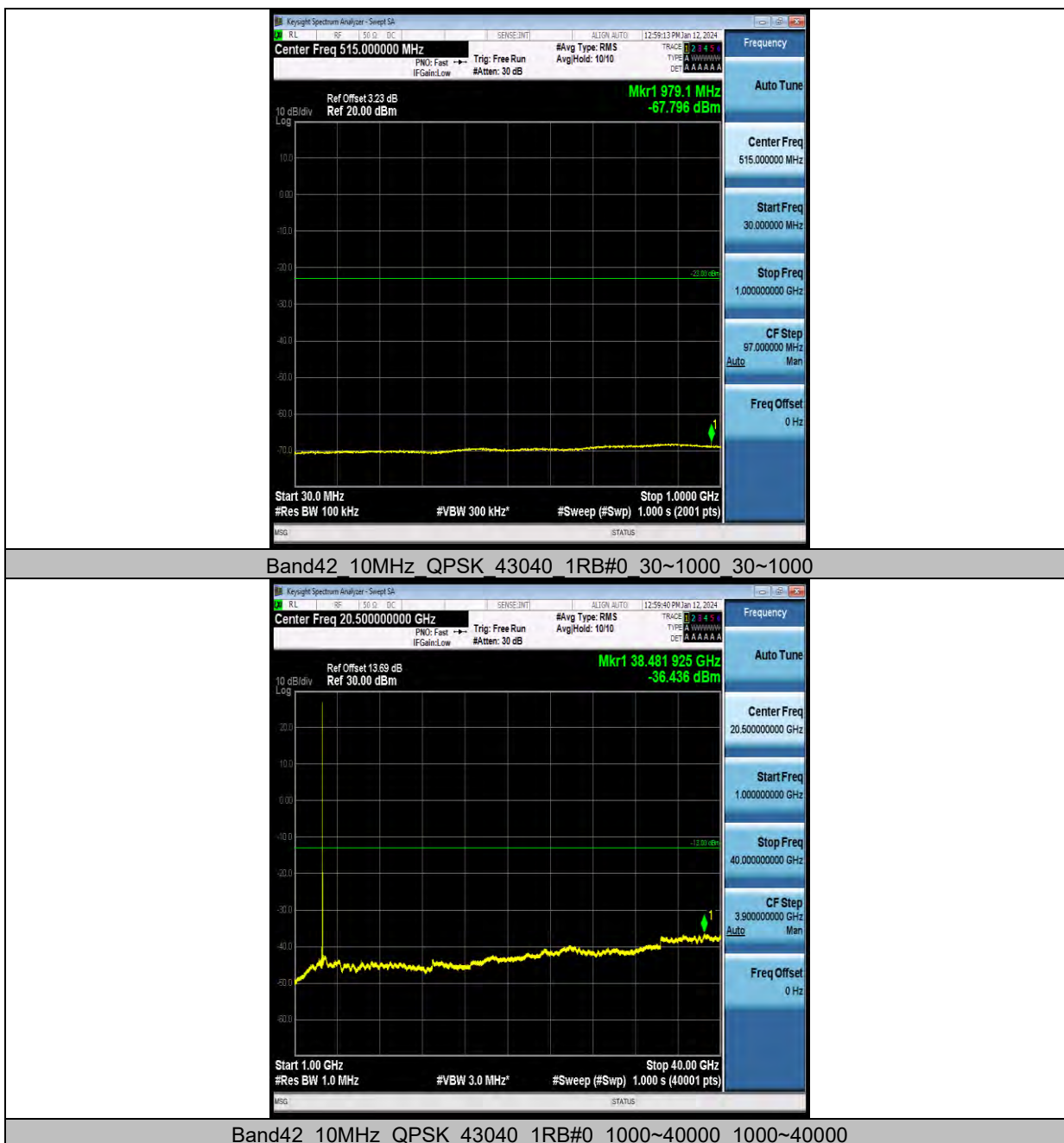


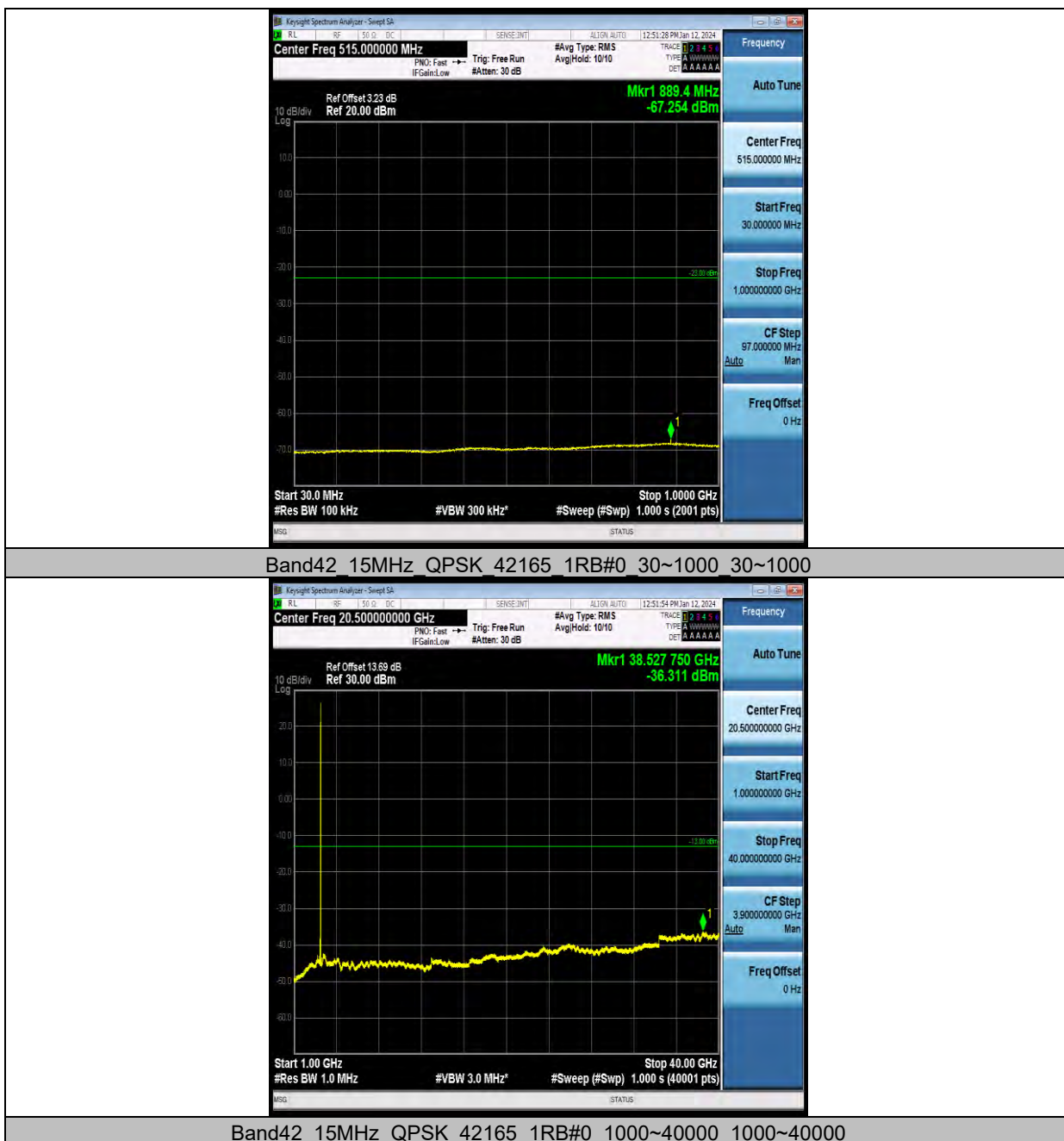
Band42 10MHz QPSK 42140 1RB#0 30~1000 30~1000

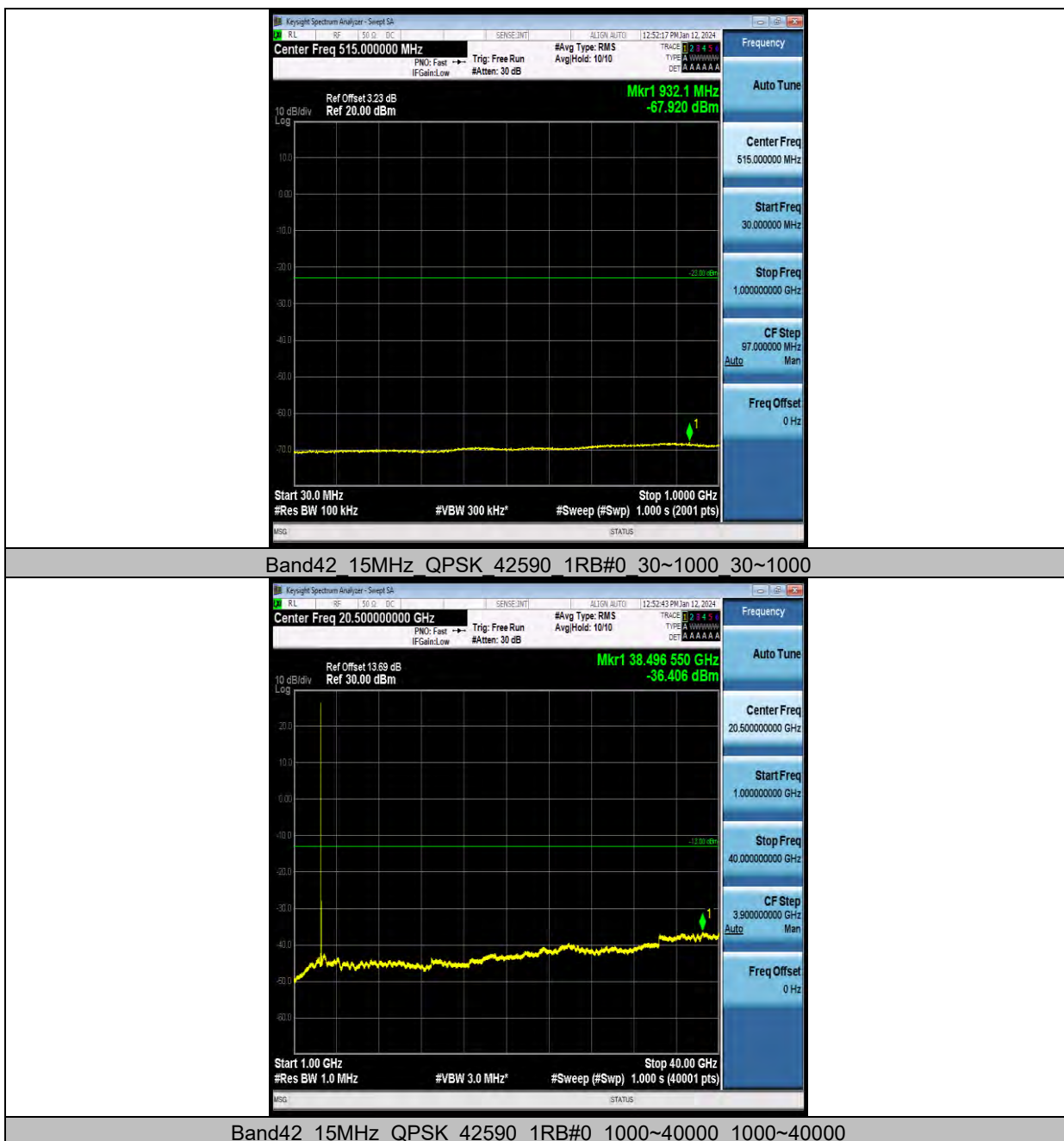


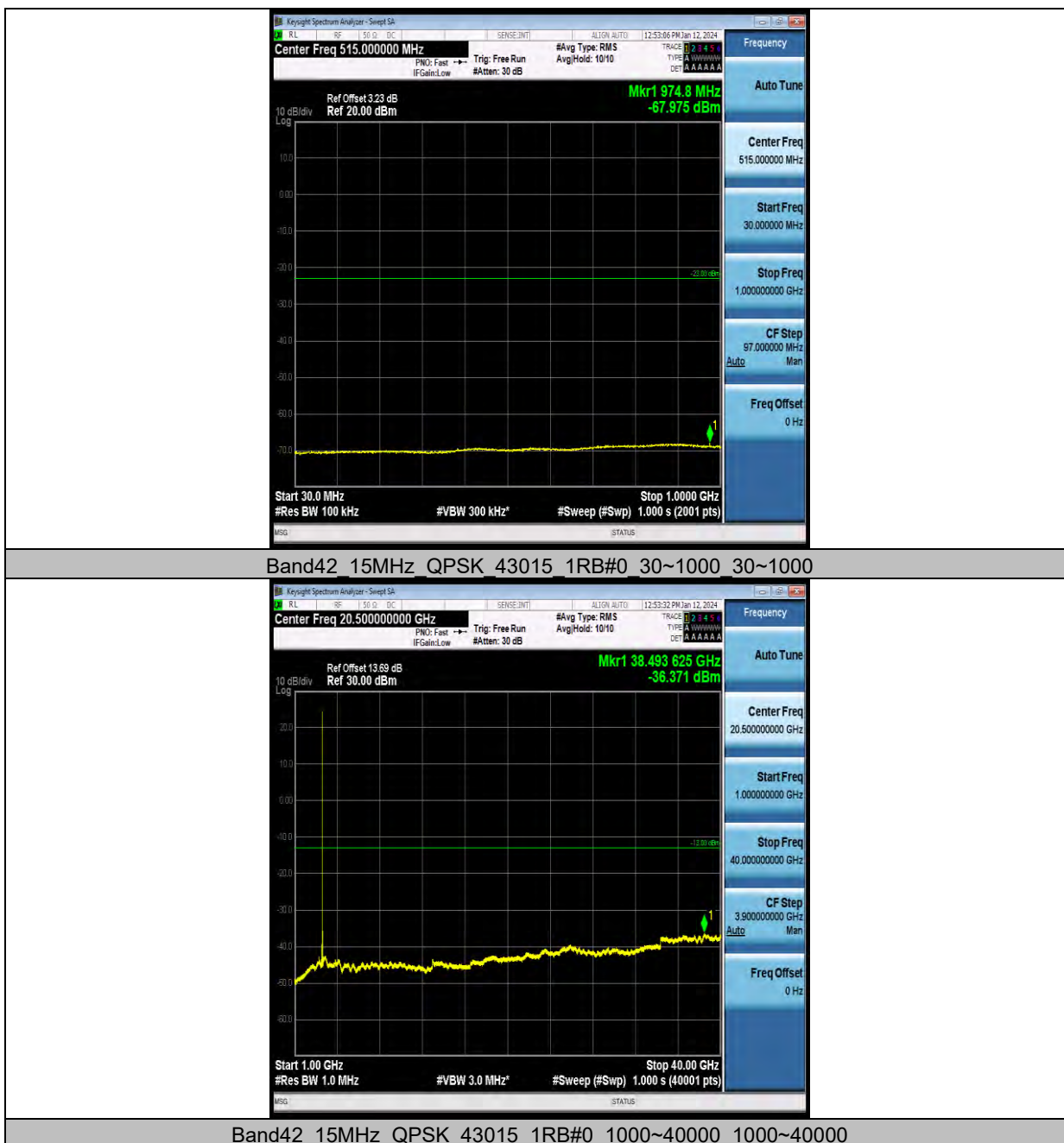
Band42 10MHz QPSK 42140 1RB#0 1000~40000 1000~40000













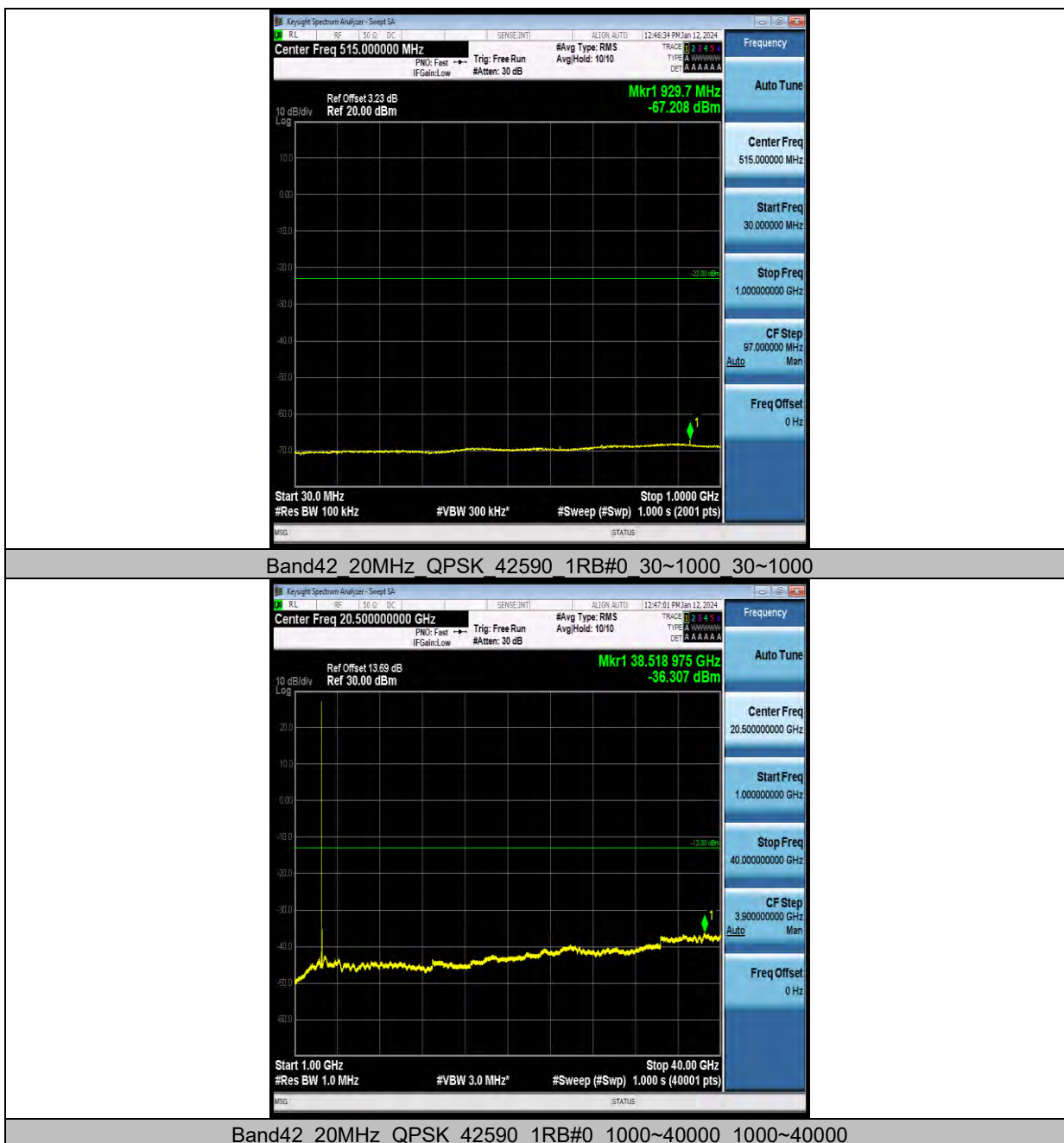
Test Report No.: W7L-P23120020RF04



Band42 20MHz QPSK 42190 1RB#0 30~1000 30~1000

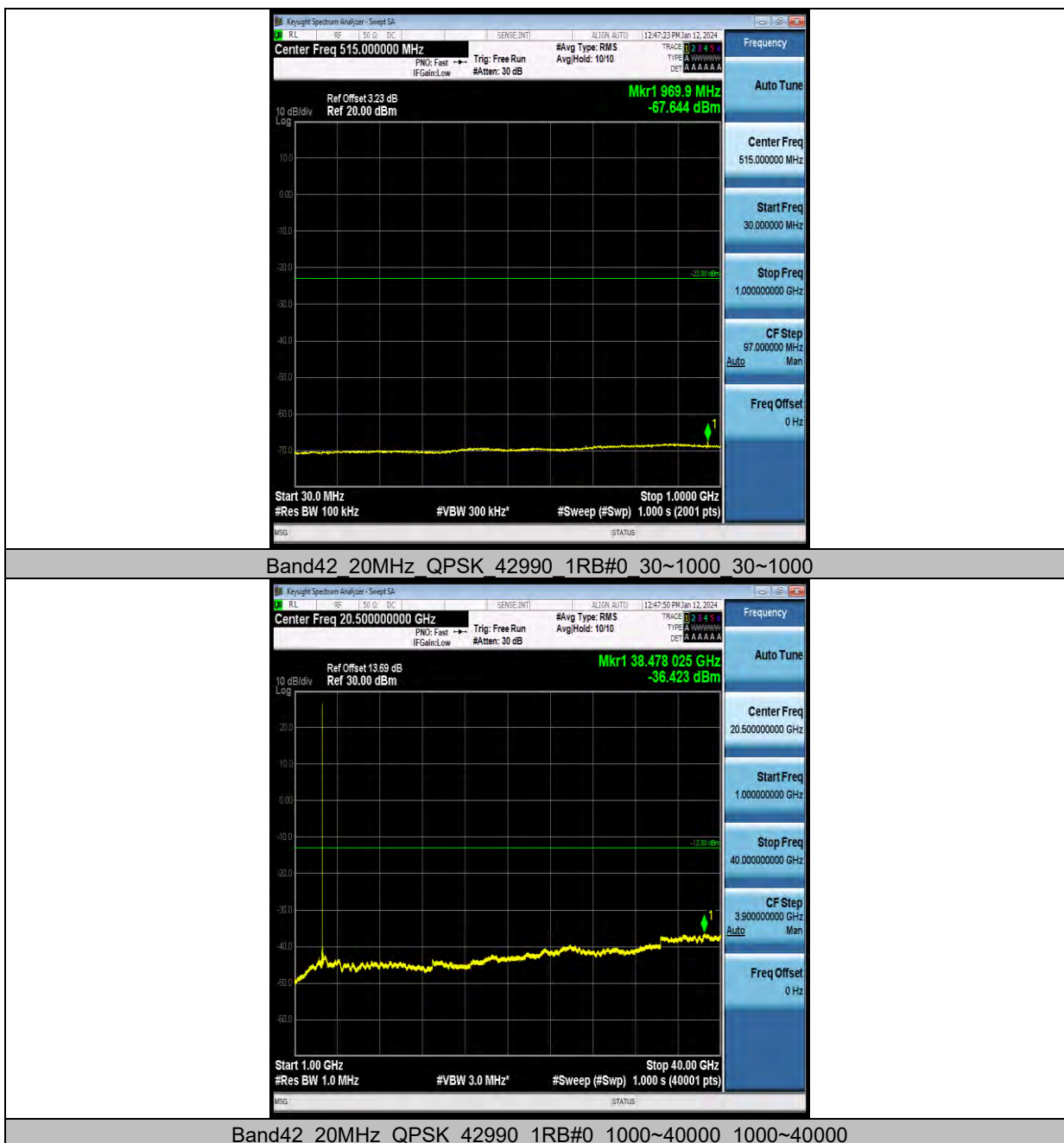


Band42_20MHz_QPSK_42190_1RB#0_1000~40000_1000~40000





Test Report No.: W7L-P23120020RF04



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
42(3450-3550)	10MHz	QPSK	42140	50RB#0	VN	NT	-5.12	-0.001482	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	VL	NT	-3.89	-0.001126	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	VH	NT	-7.77	-0.002249	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42590	50RB#0	VN	NT	-6.15	-0.001757	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42590	50RB#0	VL	NT	-9.86	-0.002817	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42590	50RB#0	VH	NT	-6.04	-0.001726	±2.5	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB#0	VN	NT	-5.34	-0.001506	±2.5	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB#0	VL	NT	-3.40	-0.000959	±2.5	PASS
42(3450-3550)	10MHz	QPSK	43040	50RB#0	VH	NT	-7.44	-0.002099	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
42(3450-3550)	10MHz	QPSK	42140	50RB#0	NV	-30	-5.89	-0.001705	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	NV	-20	-3.93	-0.001137	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	NV	-10	-5.48	-0.001586	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	NV	0	-4.13	-0.001195	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	NV	10	-5.16	-0.001493	±2.5	PASS
42(3450-3550)	10MHz	QPSK	42140	50RB#0	NV	20	-6.37	-0.001844	±2.5	PASS

42(345 0-3550)	10MHz	QPSK	42140	50RB#0	NV	30	-8.11	-0.002347	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42140	50RB#0	NV	40	-6.17	-0.001786	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42140	50RB#0	NV	50	-6.84	-0.001980	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	-30	-3.96	-0.001131	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	-20	-4.16	-0.001189	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	-10	-6.34	-0.001811	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	0	-6.64	-0.001897	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	10	-4.11	-0.001174	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	20	-5.12	-0.001463	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	30	-7.95	-0.002271	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	40	-5.76	-0.001646	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	42590	50RB#0	NV	50	5.61	0.001603	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	-30	-10.26	-0.002894	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	-20	2.98	0.000841	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	-10	-7.95	-0.002243	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	0	-5.92	-0.001670	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	10	6.37	0.001797	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	20	-4.81	-0.001357	±2.5	PASS

)										
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	30	-9.44	-0.002663	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	40	-7.01	-0.001977	±2.5	PASS
42(345 0-3550)	10MHz	QPSK	43040	50RB#0	NV	50	-5.94	-0.001676	±2.5	PASS

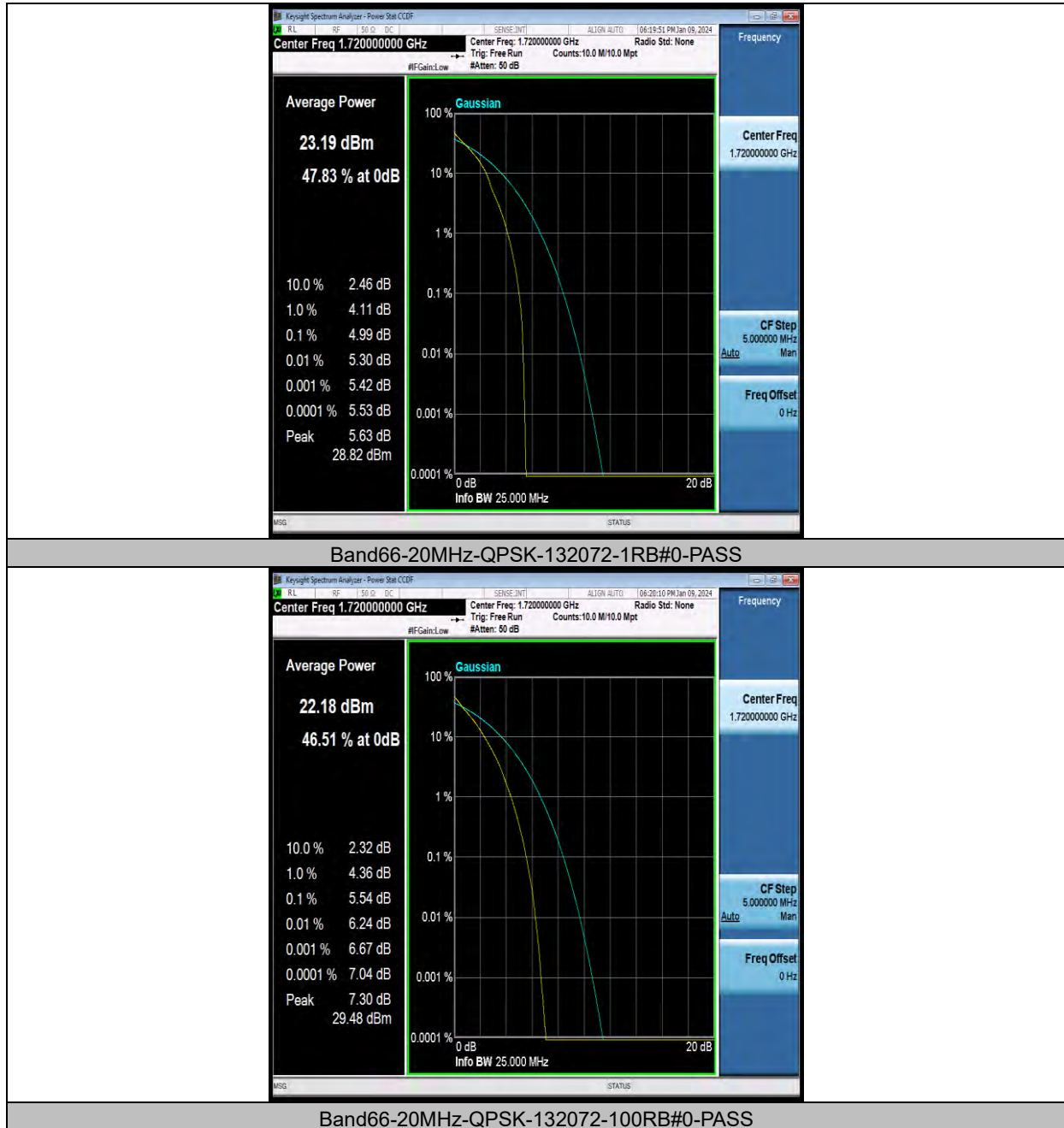
LTE BAND66 (INDCLUDING LTE BAND4)

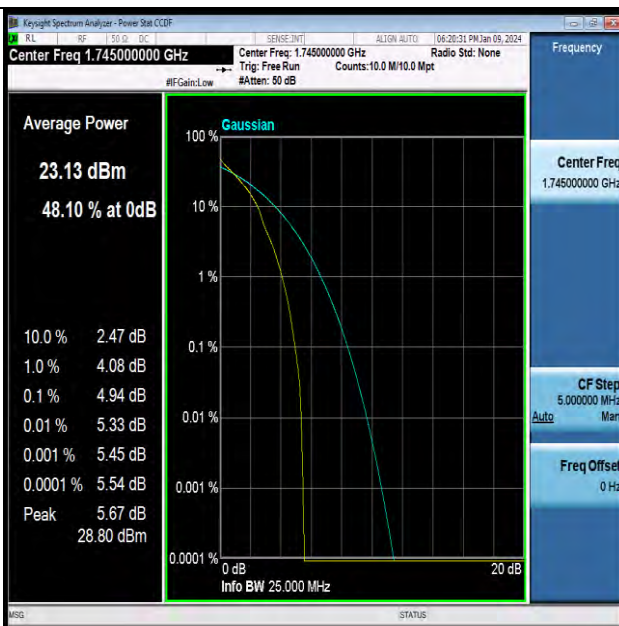
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

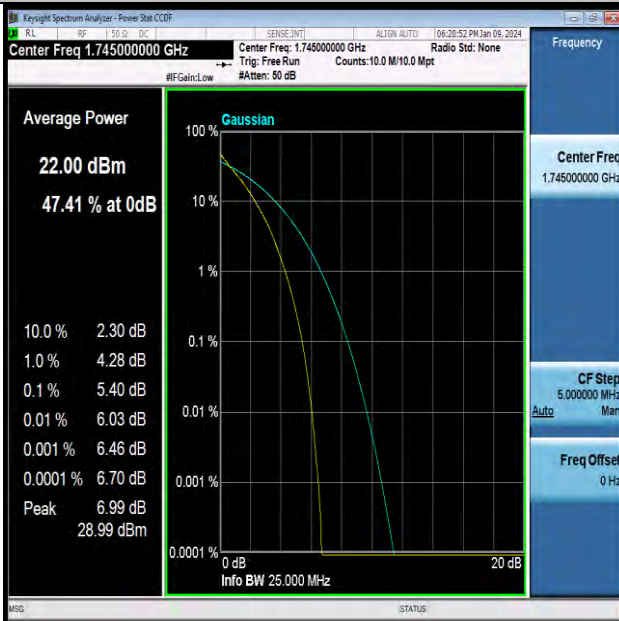
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	1RB#0	4.99	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	5.54	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	4.94	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.40	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	5.14	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.55	13	PASS
Band66	20MHz	16QAM	132072	1RB#0	5.88	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	6.26	13	PASS
Band66	20MHz	16QAM	132322	1RB#0	5.82	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	6.11	13	PASS
Band66	20MHz	16QAM	132572	1RB#0	5.98	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	6.25	13	PASS

Test Graphs

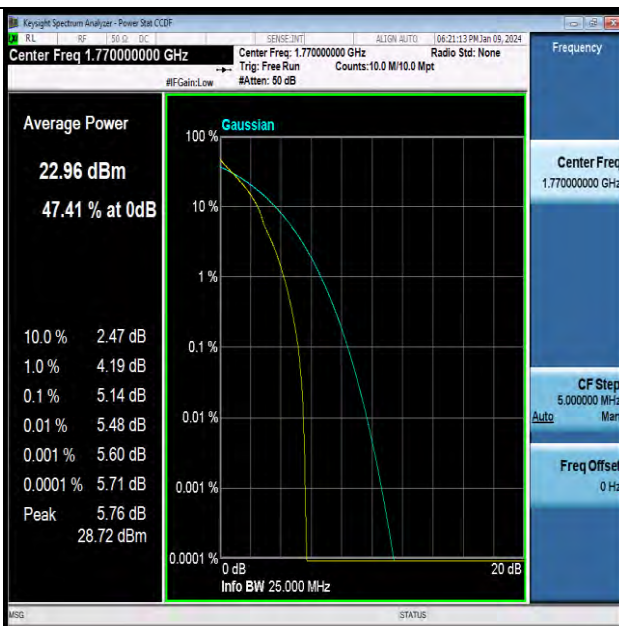




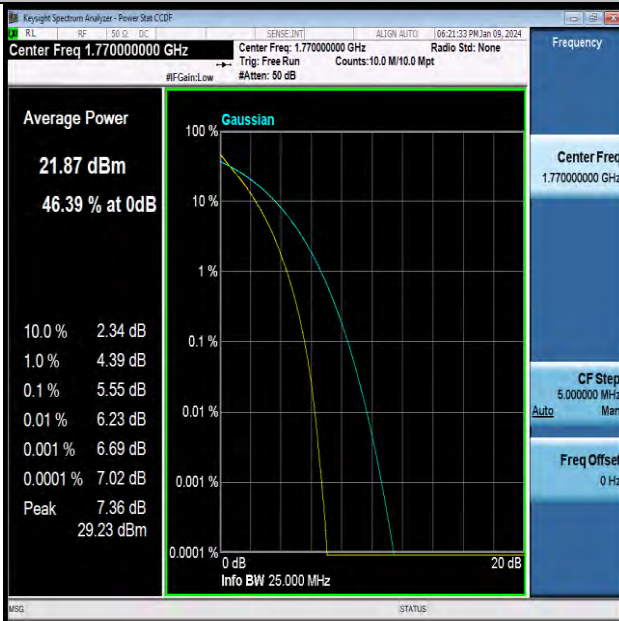
Band66-20MHz-QPSK-132322-1RB#0-PASS



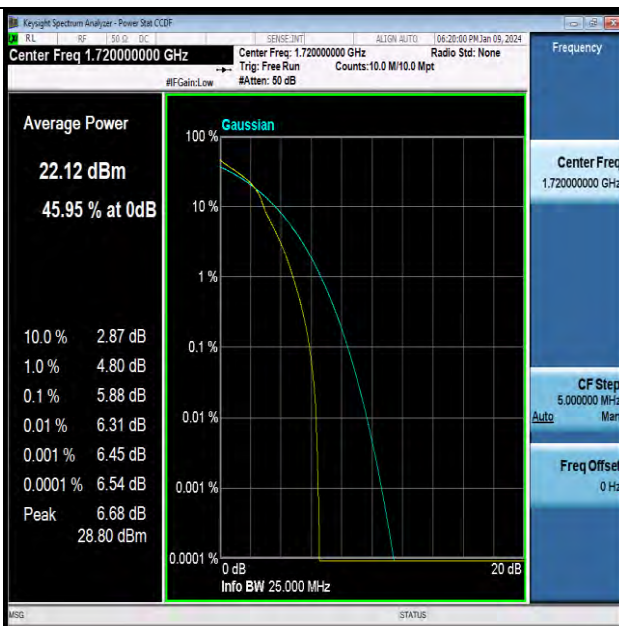
Band66-20MHz-QPSK-132322-100RB#0-PASS



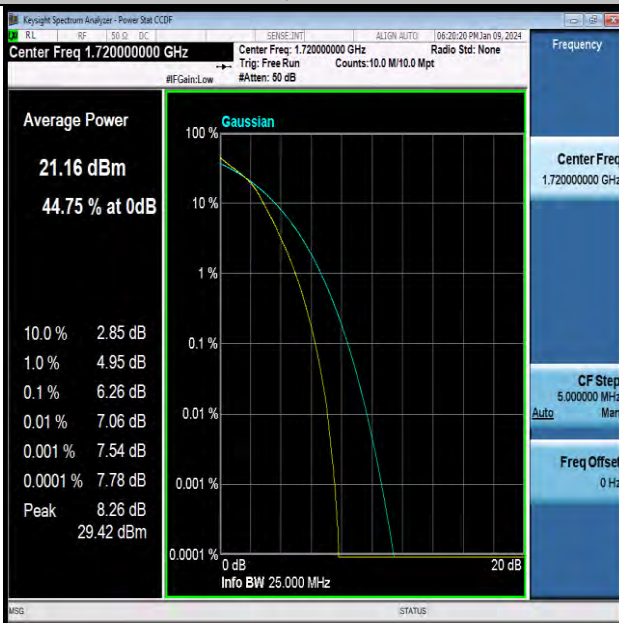
Band66-20MHz-QPSK-132572-1RB#0-PASS



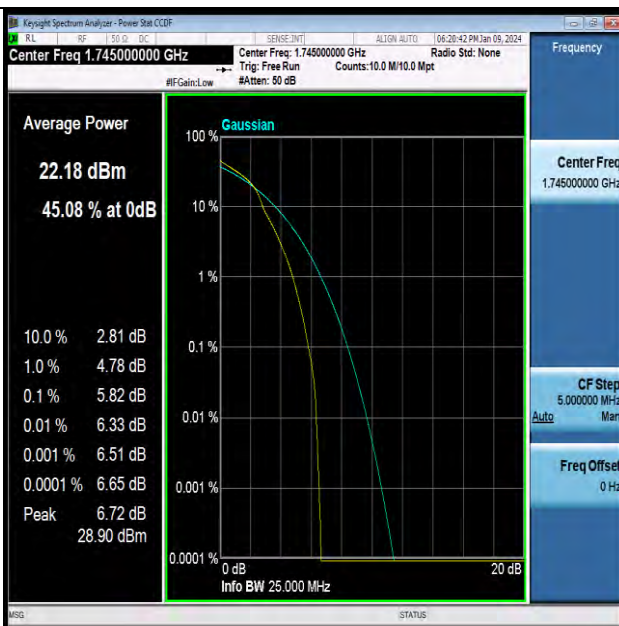
Band66-20MHz-QPSK-132572-100RB#0-PASS



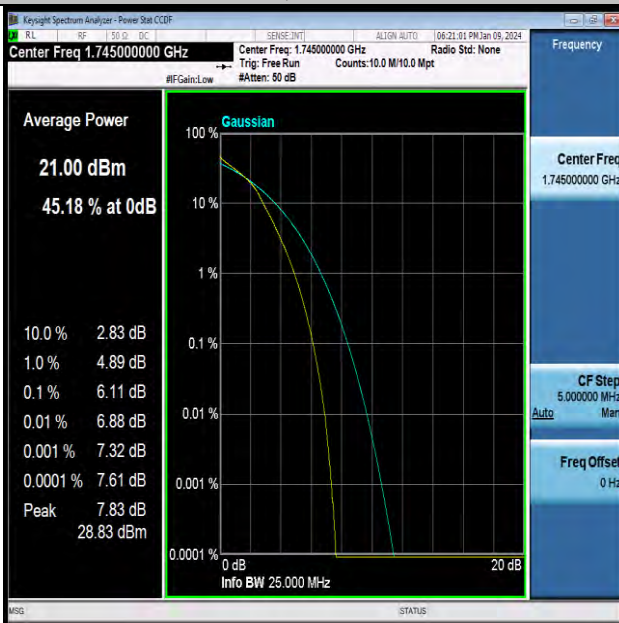
Band66-20MHz-16QAM-132072-1RB#0-PASS



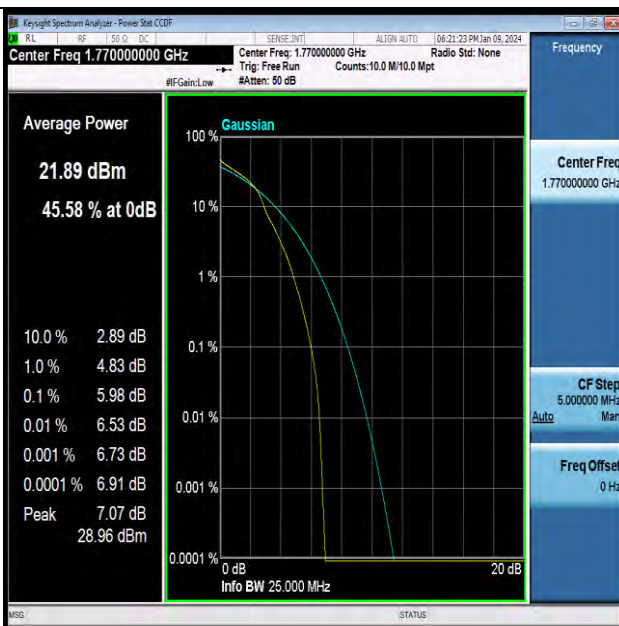
Band66-20MHz-16QAM-132072-100RB#0-PASS



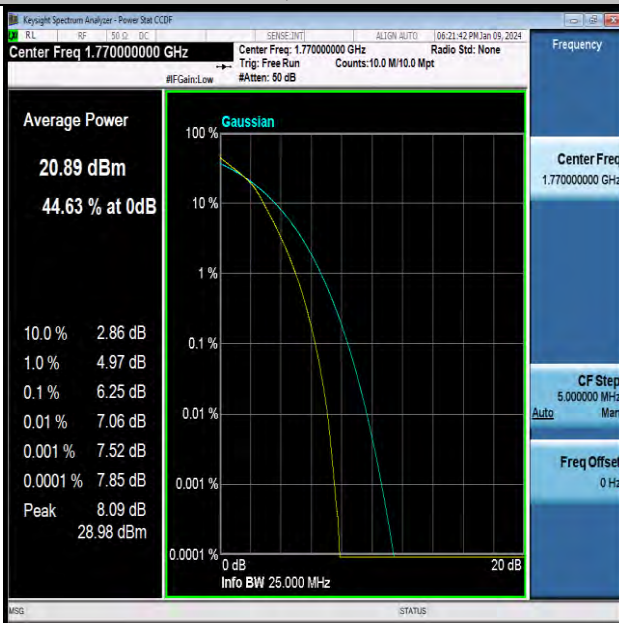
Band66-20MHz-16QAM-132322-1RB#0-PASS



Band66-20MHz-16QAM-132322-100RB#0-PASS



Band66-20MHz-16QAM-132572-1RB#0-PASS



Band66-20MHz-16QAM-132572-100RB#0-PASS

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.0990	1.354	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.1030	1.359	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.1009	1.378	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.1025	1.366	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.1059	1.384	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.0978	1.337	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.7016	3.053	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.7079	3.054	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.6954	3.045	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.6945	3.038	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.7050	3.042	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.7138	3.056	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.5236	5.179	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.5238	5.159	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.5337	5.196	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.5212	5.169	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.5256	5.180	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.5198	5.199	PASS
Band66	10MHz	QPSK	132022	50RB#0	9.0046	10.12	PASS
Band66	10MHz	QPSK	132322	50RB#0	9.0114	10.05	PASS
Band66	10MHz	QPSK	132622	50RB#0	9.0129	10.10	PASS
Band66	10MHz	16QAM	132022	50RB#0	9.0280	10.04	PASS
Band66	10MHz	16QAM	132322	50RB#0	9.0223	10.03	PASS
Band66	10MHz	16QAM	132622	50RB#0	9.0076	10.20	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.520	15.02	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.496	15.00	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.515	14.98	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.505	15.01	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.527	14.98	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.529	14.96	PASS
Band66	20MHz	QPSK	132072	100RB#0	18.043	19.94	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.997	19.91	PASS
Band66	20MHz	QPSK	132572	100RB#0	18.022	19.87	PASS
Band66	20MHz	16QAM	132072	100RB#0	18.024	19.92	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.978	19.93	PASS
Band66	20MHz	16QAM	132572	100RB#0	18.007	19.90	PASS

Test Graphs





Band66-1.4MHz-QPSK-132665-6RB#0-PASS



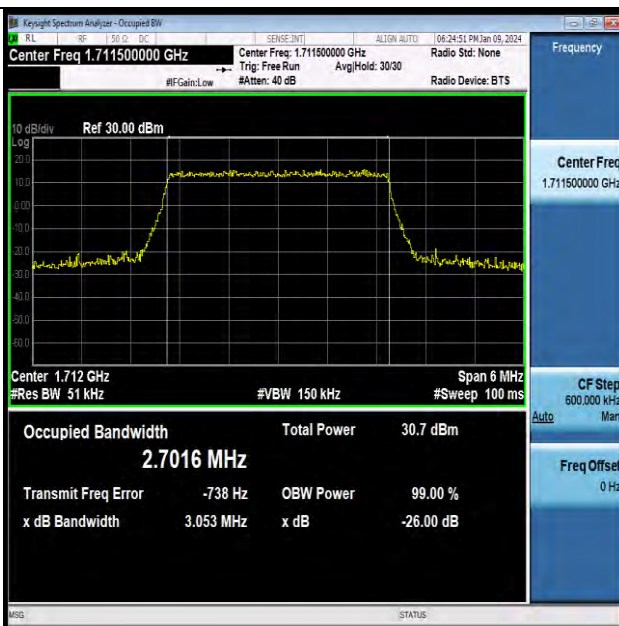
Band66-1.4MHz-16QAM-131979-6RB#0-PASS



Band66-1.4MHz-16QAM-132322-6RB#0-PASS



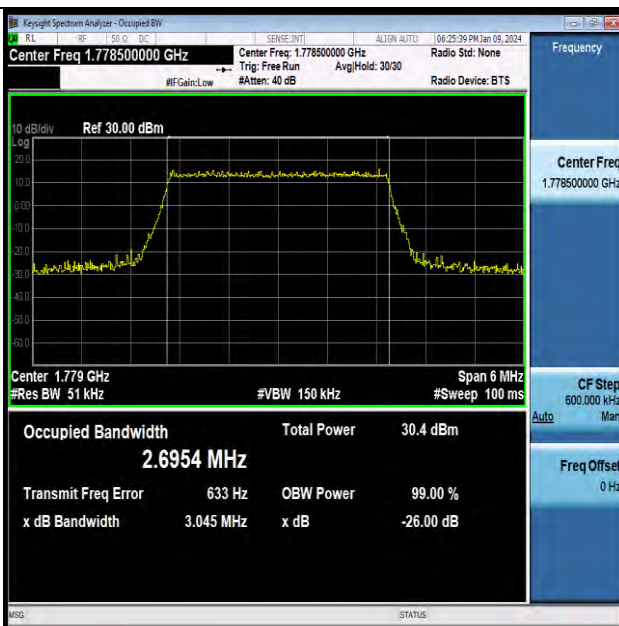
Band66-1.4MHz-16QAM-132665-6RB#0-PASS



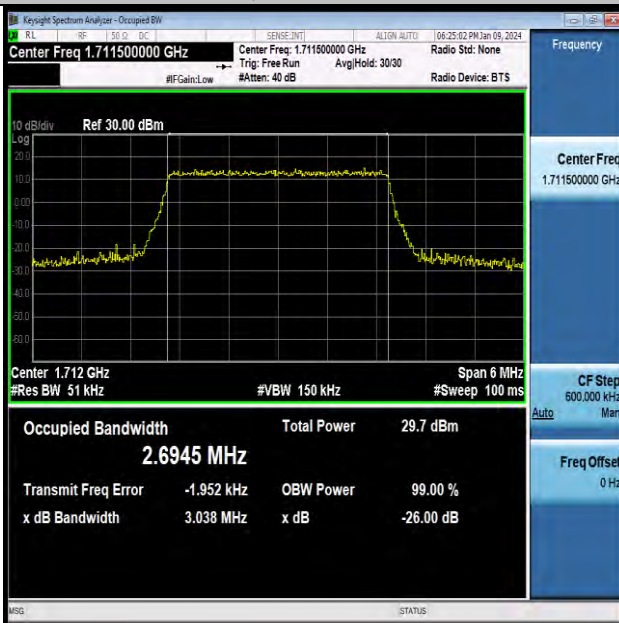
Band66-3MHz-QPSK-131987-15RB#0-PASS



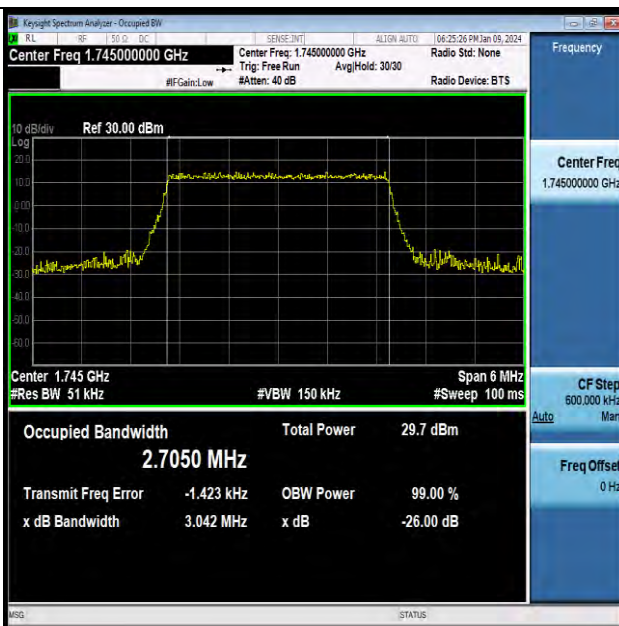
Band66-3MHz-QPSK-132322-15RB#0-PASS



Band66-3MHz-QPSK-132657-15RB#0-PASS



Band66-3MHz-16QAM-131987-15RB#0-PASS



Band66-3MHz-16QAM-132322-15RB#0-PASS



Band66-3MHz-16QAM-132657-15RB#0-PASS