

Effective (Isotropic) Radiated Power Output Data for NB1

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	POWER (dBm)	ERP/EIRP (dBm)	Verdict
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	1@0	6.36	4.72	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	1@11	6.32	4.68	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	6.35	4.71	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@47	6.25	4.61	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	3@3	3.63	1.99	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	6.27	4.63	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@11	6.15	4.51	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23181	1@0	6.25	4.61	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23181	1@47	6.16	4.52	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	23.57	21.93	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	23.39	21.75	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	23.18	21.54	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	23.10	21.46	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	3@3	23.63	21.99	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	22.97	21.33	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	22.15	20.51	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23230	1@0	23.16	21.52	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23230	1@47	23.11	21.47	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	6.18	4.54	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@47	6.11	4.47	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	1@0	6.34	4.7	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	1@11	6.30	4.66	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	3@3	5.02	3.38	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23279	1@47	6.01	4.37	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23279	1@0	6.10	4.46	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	6.28	4.64	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@11	6.16	4.52	PASS

Peak-to-Average Ratio(CCDF) for NB1

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	1.36	<=13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	1.06	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	1.35	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	1.38	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	3@3	3.52	<=13	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23230	1@0	1.51	<=13	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23230	1@47	1.59	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	1.33	<=13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	1.36	<=13	PASS

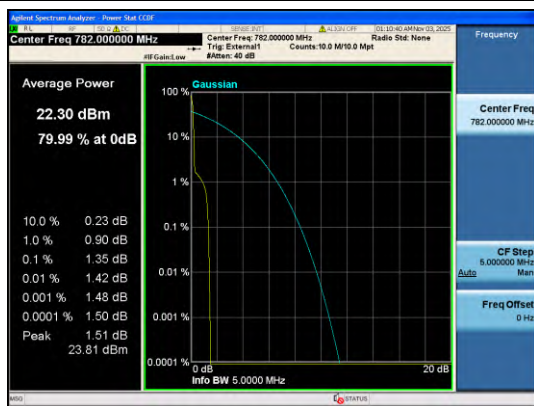
Test Graphs



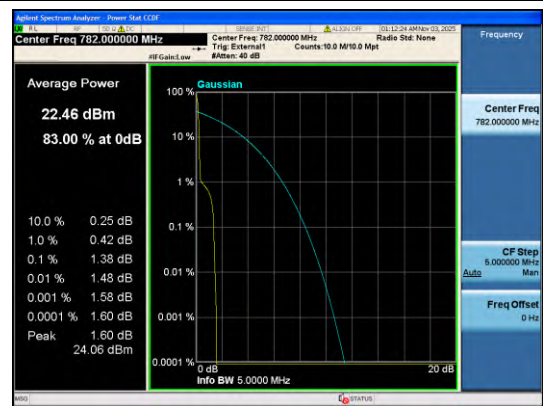
Band13-0.18-QPSK-23230-PASS



Band13-0.18-QPSK-23230-PASS



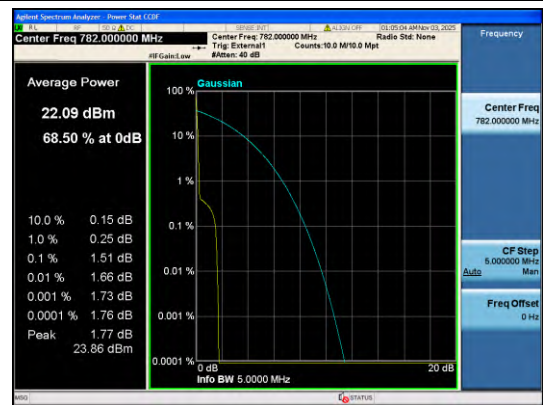
Band13-0.18-QPSK-23230-PASS



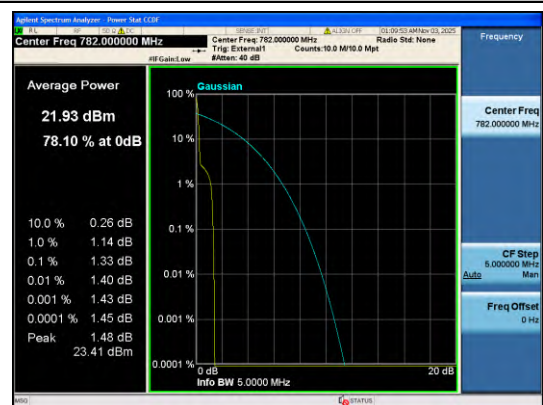
Band13-0.18-QPSK-23230-PASS



Band13-0.18-QPSK-23230-PASS



Band13-0.18-BPSK-23230-PASS



Band13-0.18-BPSK-23230-PASS

Band13-0.18-BPSK-23230-PASS



Band13-0.18-BPSK-23230-PASS

Emission Bandwidth for NB1

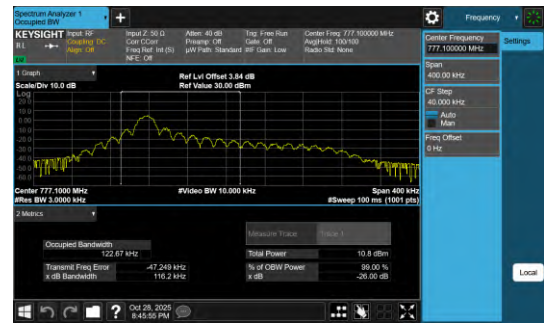
Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	OBW (MHz)	EBW (MHz)	Verdict
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	0.07519	0.0503	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	1@0	0.12267	0.1162	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	12@0	0.18551	0.2461	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23181	1@0	0.06892	0.0493	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	0.12653	0.1052	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	12@0	0.18548	0.2491	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	0.07729	0.0501	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	0.12553	0.1176	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	12@0	0.18532	0.2614	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23230	1@0	0.06885	0.0489	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	0.12676	0.1039	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	12@0	0.18509	0.2495	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	0.07456	0.0508	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	1@0	0.12234	0.1162	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	12@0	0.18409	0.2384	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23279	1@0	0.06811	0.0487	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	0.12562	0.1041	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	12@0	0.18727	0.2504	PASS

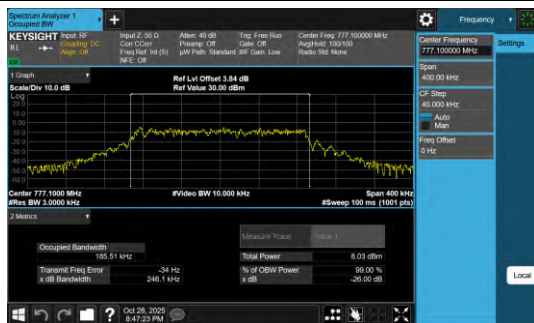
Test Graphs



Band13-0.18-QPSK-23181-PASS



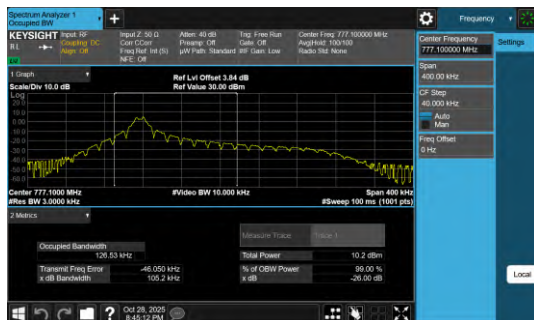
Band13-0.18-QPSK-23181-PASS



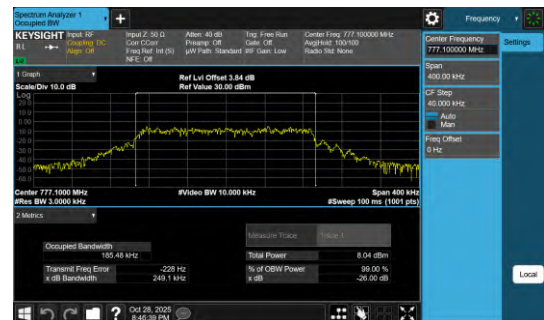
Band13-0.18-QPSK-23181-PASS



Band13-0.18-BPSK-23181-PASS



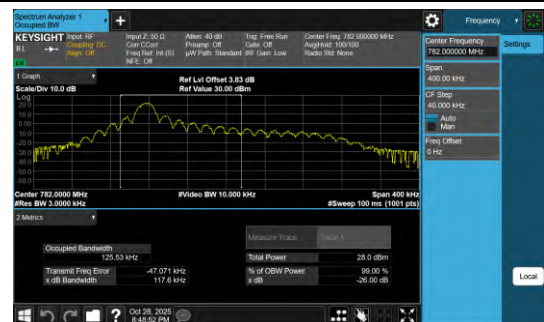
Band13-0.18-BPSK-23181-PASS



Band13-0.18-BPSK-23181-PASS



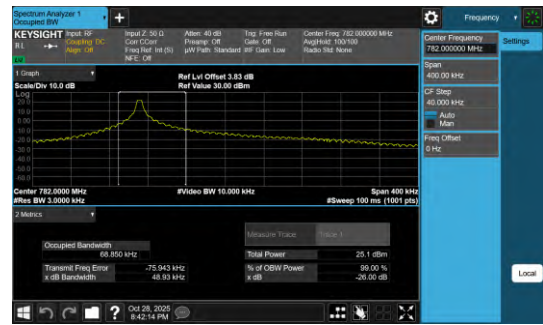
Band13-0.18-QPSK-23230-PASS



Band13-0.18-QPSK-23230-PASS



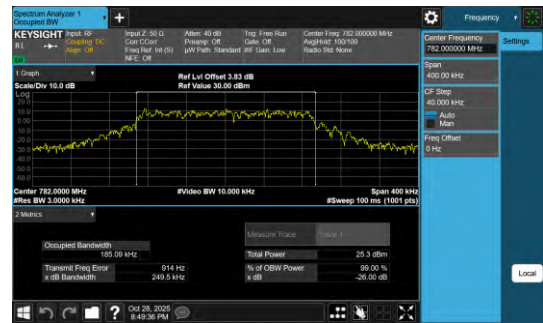
Band13-0.18-QPSK-23230-PASS



Band13-0.18-BPSK-23230-PASS



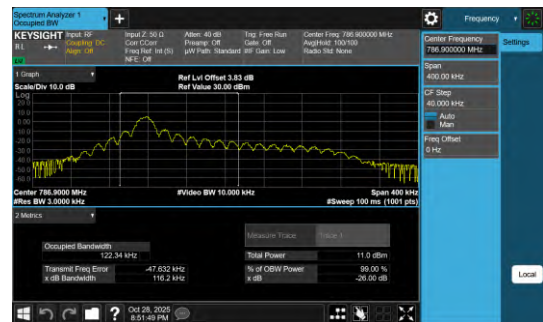
Band13-0.18-BPSK-23230-PASS



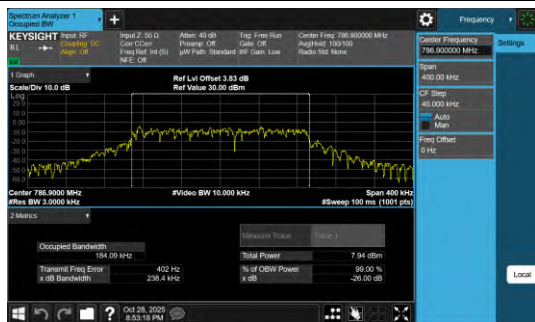
Band13-0.18-BPSK-23230-PASS



Band13-0.18-QPSK-23279-PASS



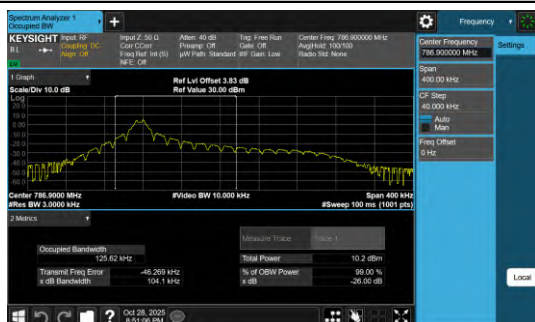
Band13-0.18-QPSK-23279-PASS



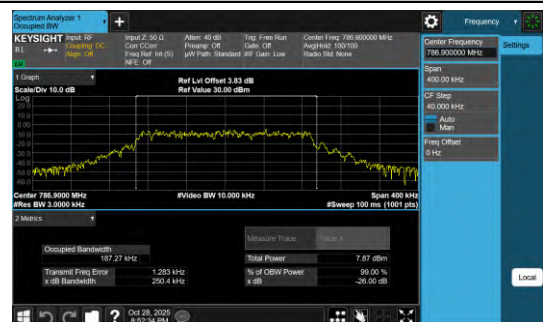
Band13-0.18-QPSK-23279-PASS



Band13-0.18-BPSK-23279-PASS



Band13-0.18-BPSK-23279-PASS



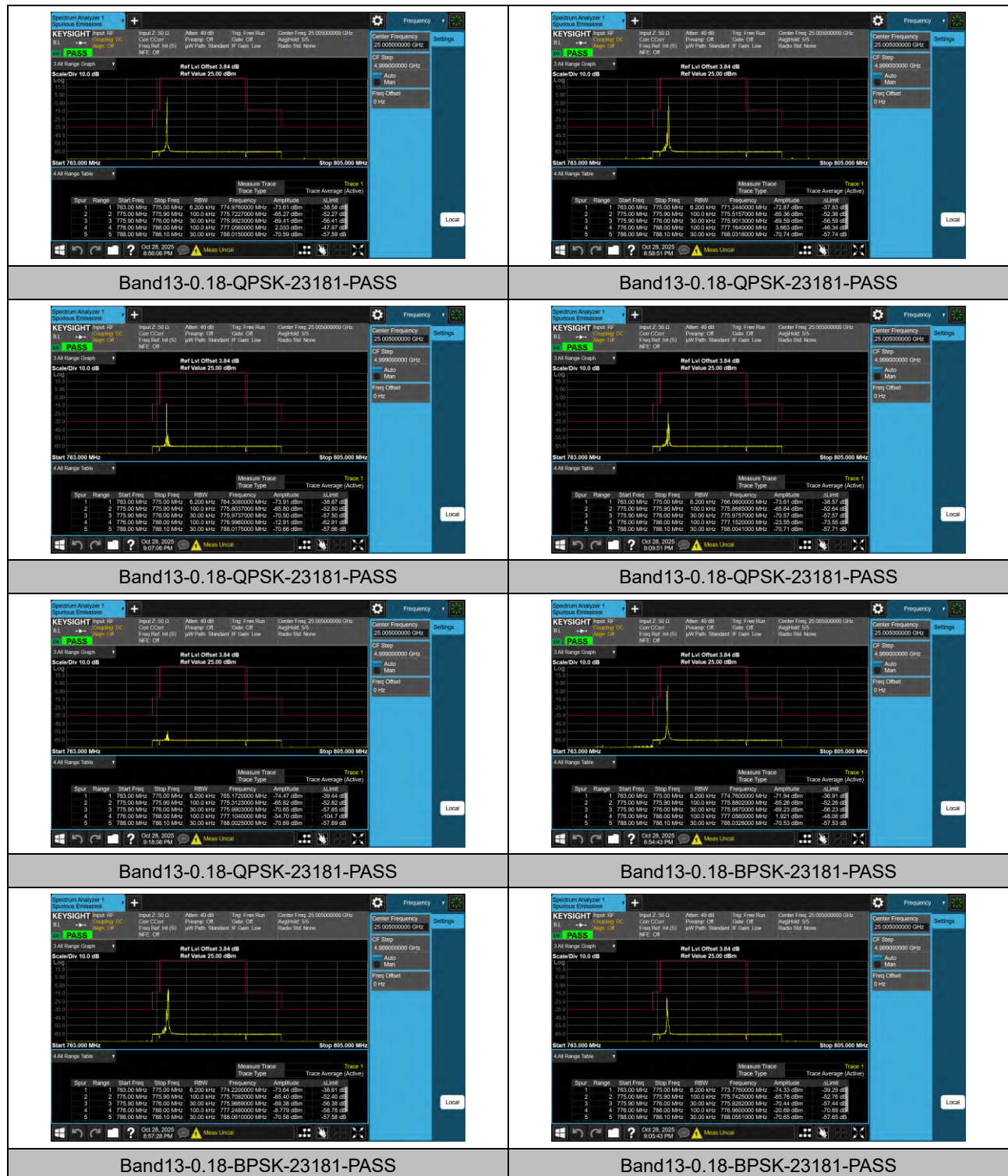
Band13-0.18-BPSK-23279-PASS

Band Edge for NB1

Test Result

Band	OpMode	SCS	BW	Modulation	Channel	Tones	Result (dBm)	Verdict
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	-73.61	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@47	-72.87	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	1@0	-73.32	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	1@11	-73.61	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	12@0	-73.47	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23181	1@0	-71.94	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23181	1@47	-73.64	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	-74.02	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@11	-73.72	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	12@0	-73.51	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	-72.58	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@47	-73.41	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	1@0	-74.56	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	1@11	-73.80	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	12@0	-73.06	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23279	1@0	-72.29	PASS
Band13	Stand-Alone	3.75kHz	0.18	BPSK	23279	1@47	-72.38	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	-73.02	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@11	-74.21	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	12@0	-73.57	PASS

Test Graphs



Band13-0.18-QPSK-23181-PASS

Band13-0.18-QPSK-23181-PASS

Band13-0.18-QPSK-23181-PASS

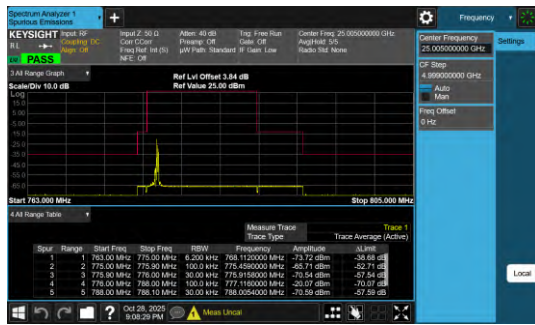
Band13-0.18-QPSK-23181-PASS

Band13-0.18-QPSK-23181-PASS

Band13-0.18-BPSK-23181-PASS

Band13-0.18-BPSK-23181-PASS

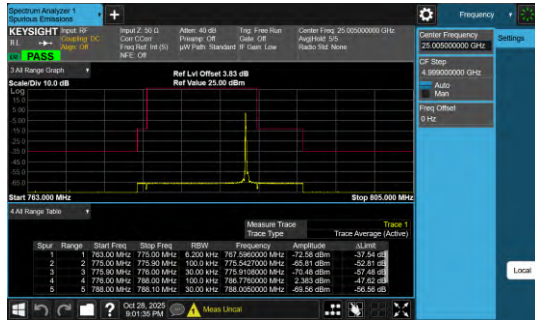
Band13-0.18-BPSK-23181-PASS



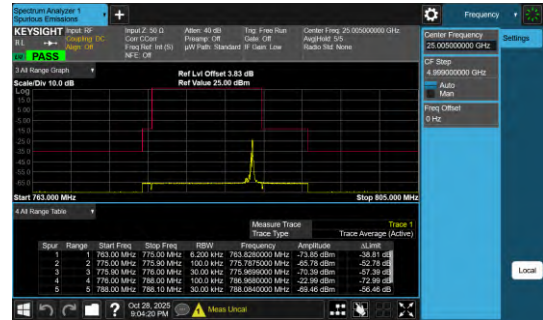
Band13-0.18-BPSK-23181-PASS



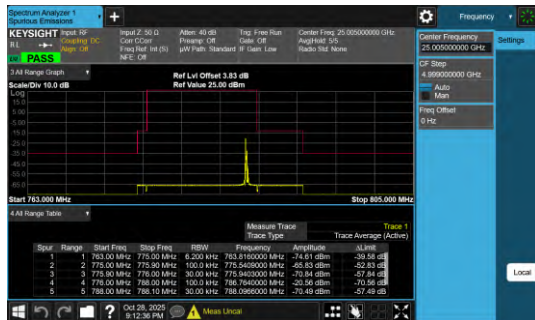
Band13-0.18-BPSK-23181-PASS



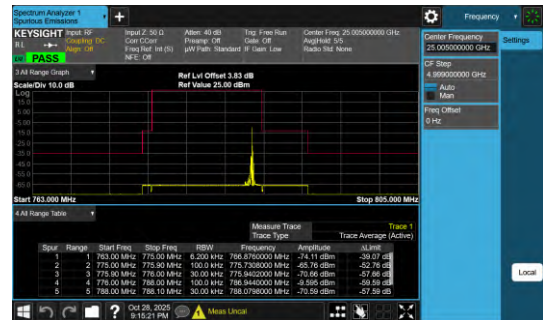
Band13-0.18-QPSK-23279-PASS



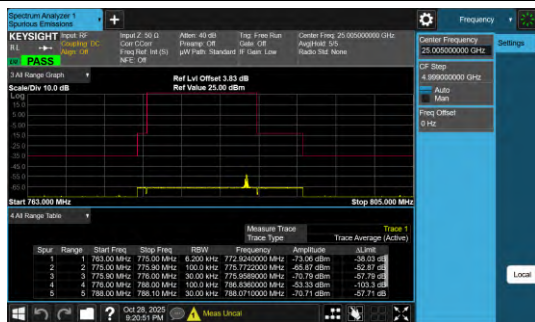
Band13-0.18-QPSK-23279-PASS



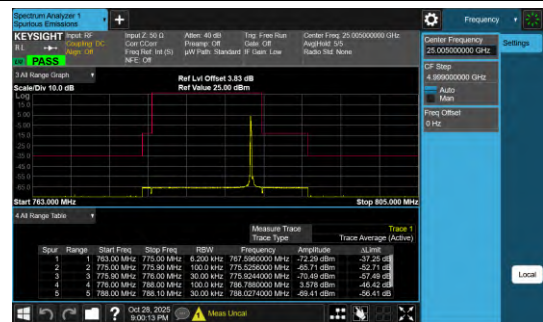
Band13-0.18-QPSK-23279-PASS



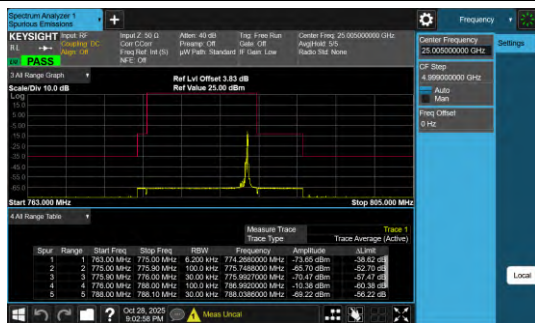
Band13-0.18-QPSK-23279-PASS



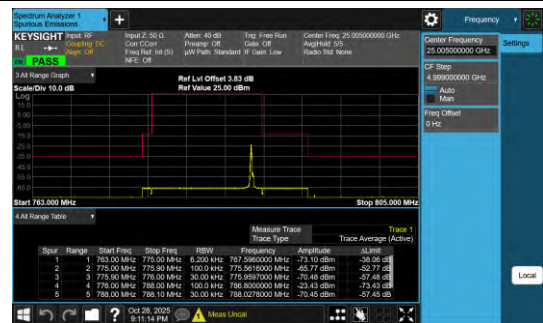
Band13-0.18-QPSK-23279-PASS



Band13-0.18-BPSK-23279-PASS



Band13-0.18-BPSK-23279-PASS



Band13-0.18-BPSK-23279-PASS



Conducted Spurious Emission for NB1

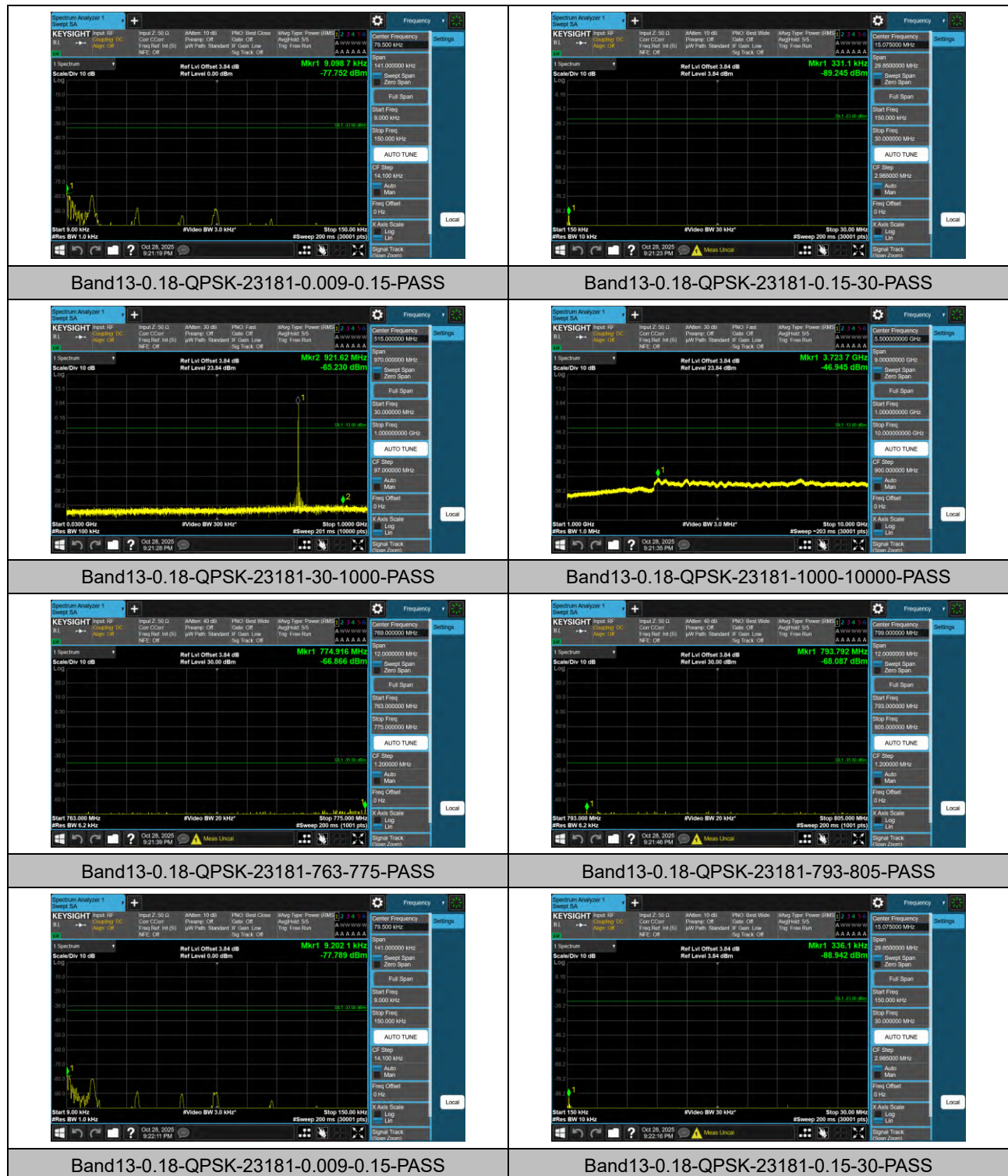
Test Result

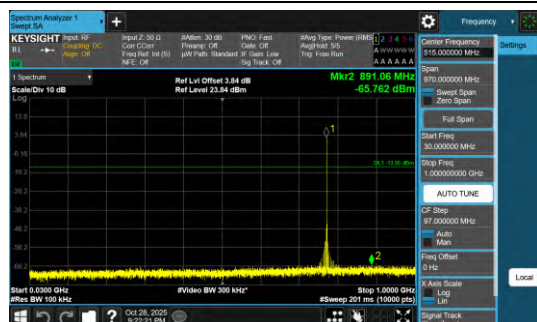
Band	OpMode	SCS	BW	Modulation	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	0.009	0.15	-77.75	-33	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	0.15	30	-89.25	-23	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	30	1000	-65.23	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	1000	10000	-46.95	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	763	775	-66.87	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@0	793	805	-68.09	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@47	0.009	0.15	-77.79	-33	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@47	0.15	30	-88.94	-23	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@47	30	1000	-65.76	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@47	1000	10000	-47.07	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@47	763	775	-66.04	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23181	1@47	793	805	-68.47	-35	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	12@0	0.009	0.15	-80.91	-33	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	12@0	0.15	30	-88.03	-23	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	12@0	30	1000	-65.46	-13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	12@0	1000	10000	-47.04	-13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	12@0	763	775	-67.89	-35	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23181	12@0	793	805	-68.37	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	0.009	0.15	-77.56	-33	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	0.15	30	-88.12	-23	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	30	1000	-65.33	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	1000	10000	-47.04	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	763	775	-67.73	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@0	793	805	-67.9	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@11	0.009	0.15	-77.94	-33	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@11	0.15	30	-87.73	-23	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@11	30	1000	-65.3	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@11	1000	10000	-47.29	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@11	763	775	-67.71	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23181	1@11	793	805	-67.19	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	0.009	0.15	-64.6	-33	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	0.15	30	-81.36	-23	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	30	1000	-61.09	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	1000	10000	-46.83	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	763	775	-61.02	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	793	805	-59.97	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	0.009	0.15	-67.85	-33	PASS

Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	0.15	30	-80.94	-23	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	30	1000	-62.59	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	1000	10000	-47.02	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	763	775	-60.22	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	793	805	-61.45	-35	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	12@0	0.009	0.15	-69.11	-33	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	12@0	0.15	30	-86.43	-23	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	12@0	30	1000	-65.43	-13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	12@0	1000	10000	-47.22	-13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	12@0	763	775	-67.37	-35	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	12@0	793	805	-65.45	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	0.009	0.15	-70.17	-33	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	0.15	30	-75.98	-23	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	30	1000	-61.71	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	1000	10000	-46.38	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	763	775	-68.23	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@0	793	805	-61.31	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	0.009	0.15	-69.75	-33	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	0.15	30	-76.76	-23	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	30	1000	-62.42	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	1000	10000	-47.01	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	763	775	-68.45	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23230	1@11	793	805	-63.25	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	0.009	0.15	-76.12	-33	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	0.15	30	-87.99	-23	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	30	1000	-65.5	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	1000	10000	-47.15	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	763	775	-68.19	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@0	793	805	-68	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@47	0.009	0.15	-78.31	-33	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@47	0.15	30	-90.07	-23	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@47	30	1000	-64.77	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@47	1000	10000	-47.13	-13	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@47	763	775	-67.06	-35	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23279	1@47	793	805	-67.49	-35	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	12@0	0.009	0.15	-79.21	-33	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	12@0	0.15	30	-88.85	-23	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	12@0	30	1000	-65.94	-13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	12@0	1000	10000	-46.95	-13	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	12@0	763	775	-68.28	-35	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23279	12@0	793	805	-68.21	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	0.009	0.15	-79.99	-33	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	0.15	30	-87.32	-23	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	30	1000	-64.74	-13	PASS

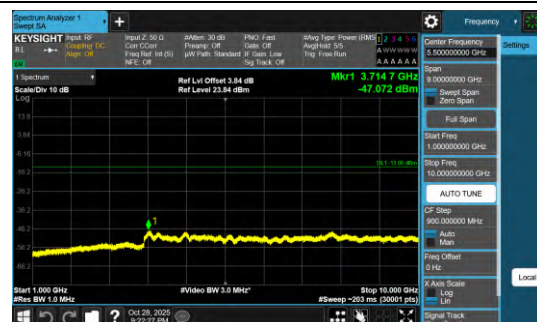
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	1000	10000	-47.19	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	763	775	-68.33	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@0	793	805	-67.65	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@11	0.009	0.15	-77.78	-33	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@11	0.15	30	-88.29	-23	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@11	30	1000	-64.95	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@11	1000	10000	-47.17	-13	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@11	763	775	-68.1	-35	PASS
Band13	Stand-Alone	15kHz	0.18	BPSK	23279	1@11	793	805	-67.68	-35	PASS

Test Graphs





Band13-0.18-QPSK-23181-30-1000-PASS



Band13-0.18-QPSK-23181-1000-10000-PASS



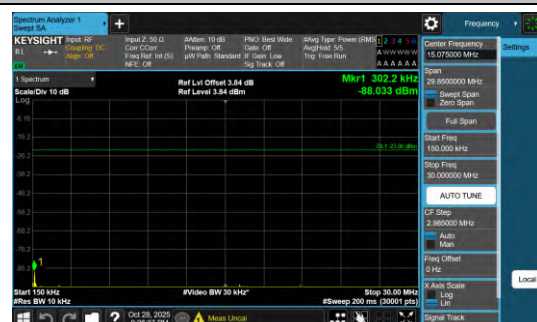
Band13-0.18-QPSK-23181-763-775-PASS



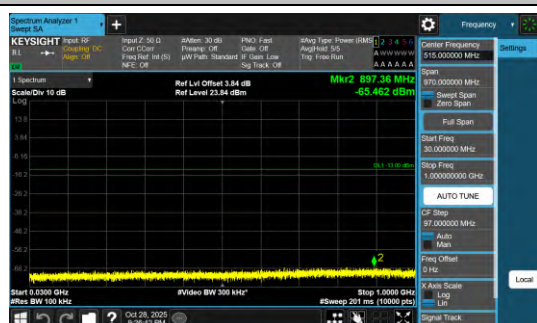
Band13-0.18-QPSK-23181-793-805-PASS



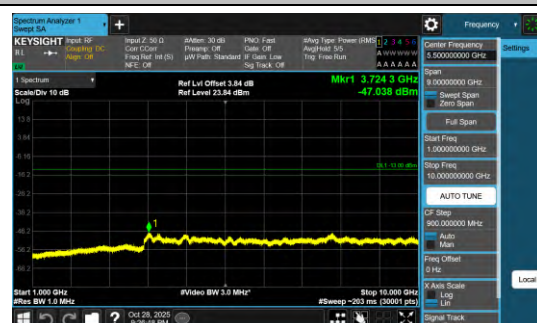
Band13-0.18-QPSK-23181-0.009-0.15-PASS



Band13-0.18-QPSK-23181-0.15-30-PASS



Band13-0.18-QPSK-23181-30-1000-PASS



Band13-0.18-QPSK-23181-1000-10000-PASS



Band13-0.18-QPSK-23181-763-775-PASS



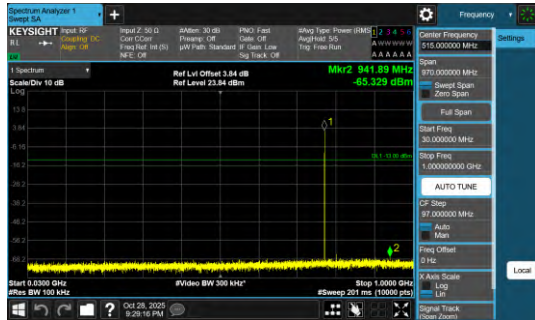
Band13-0.18-QPSK-23181-793-805-PASS



Band13-0.18-BPSK-23181-0.009-0.15-PASS



Band13-0.18-BPSK-23181-0.15-30-PASS



Band13-0.18-BPSK-23181-30-1000-PASS



Band13-0.18-BPSK-23181-1000-10000-PASS



Band13-0.18-BPSK-23181-763-775-PASS



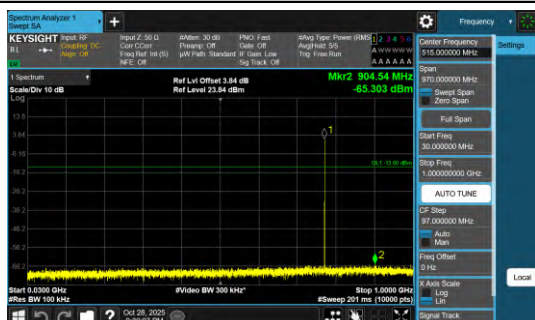
Band13-0.18-BPSK-23181-793-805-PASS



Band13-0.18-BPSK-23181-0.009-0.15-PASS



Band13-0.18-BPSK-23181-0.15-30-PASS



Band13-0.18-BPSK-23181-30-1000-PASS



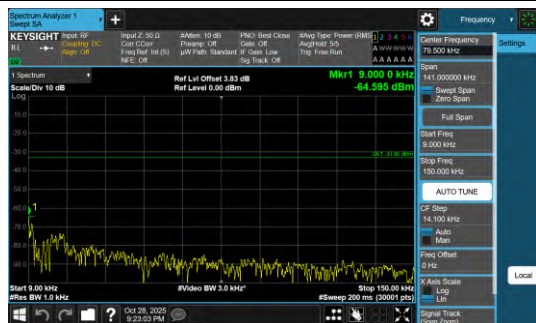
Band13-0.18-BPSK-23181-1000-10000-PASS



Band13-0.18-BPSK-23181-763-775-PASS



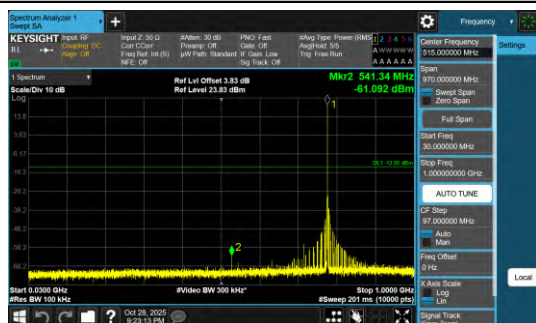
Band13-0.18-BPSK-23181-793-805-PASS



Band13-0.18-QPSK-23230-0.009-0.15-PASS



Band13-0.18-QPSK-23230-0.15-30-PASS



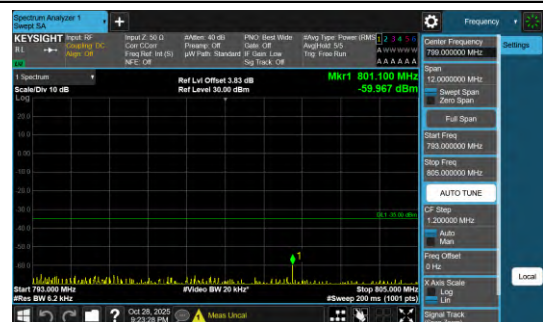
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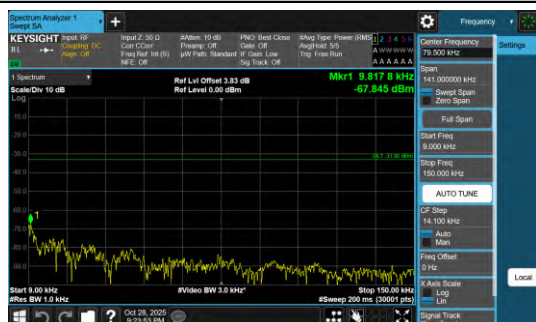
Band13-0.18-QPSK-23230-1000-10000-PASS



Band13-0.18-QPSK-23230-763-775-PASS



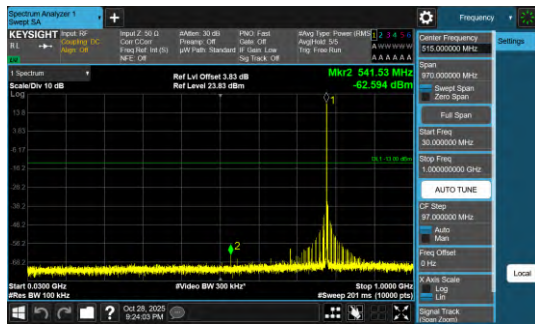
Band13-0.18-QPSK-23230-793-805-PASS



Band13-0.18-QPSK-23230-0.009-0.15-PASS



Band13-0.18-QPSK-23230-0.15-30-PASS



Band13-0.18-QPSK-23230-30-1000-PASS



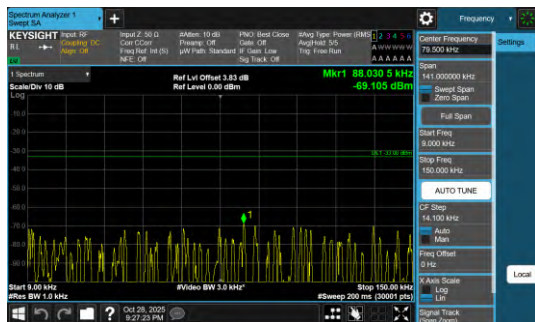
Band13-0.18-QPSK-23230-1000-10000-PASS



Band13-0.18-QPSK-23230-763-775-PASS



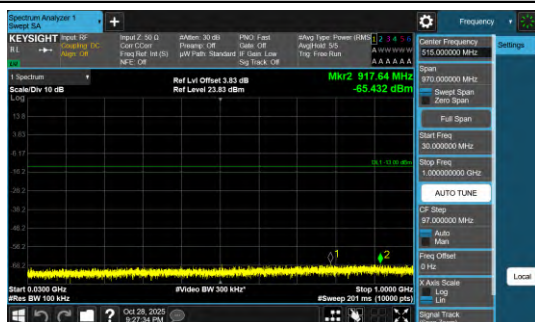
Band13-0.18-QPSK-23230-793-805-PASS



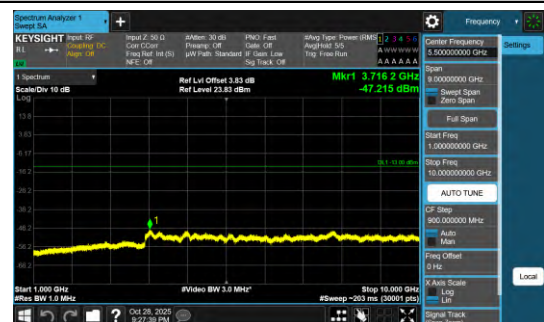
Band13-0.18-QPSK-23230-0.009-0.15-PASS



Band13-0.18-QPSK-23230-0.15-30-PASS



Band13-0.18-QPSK-23230-30-1000-PASS



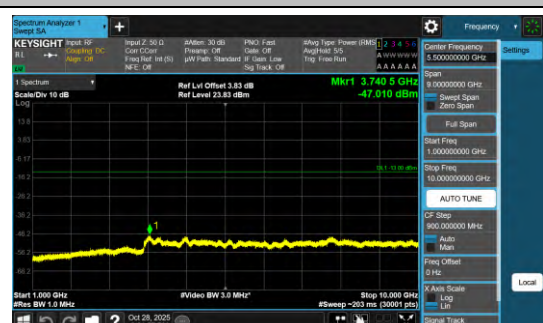
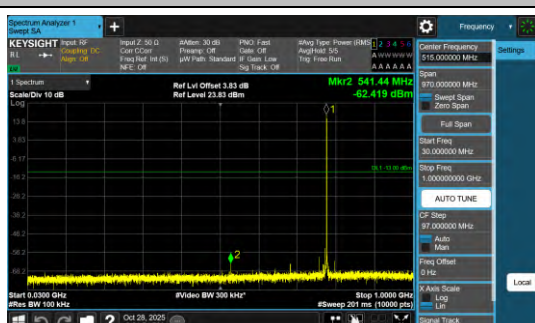
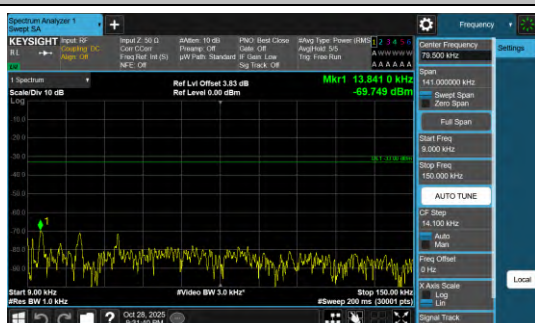
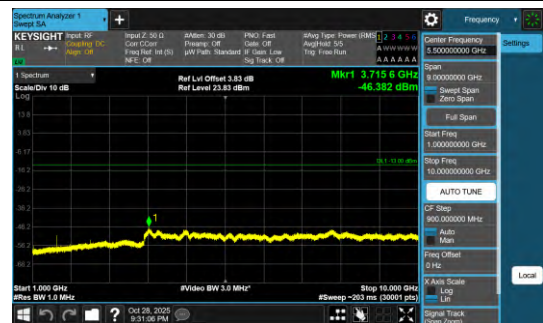
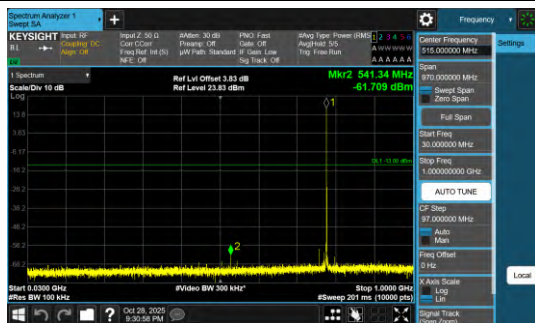
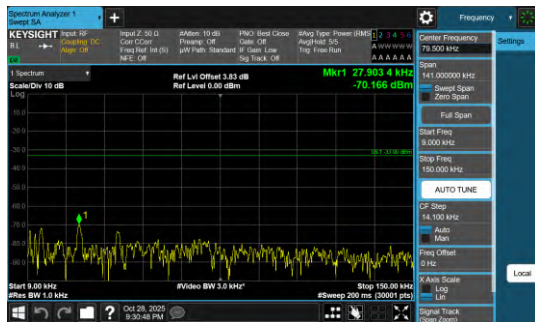
Band13-0.18-QPSK-23230-1000-10000-PASS



Band13-0.18-QPSK-23230-763-775-PASS



Band13-0.18-QPSK-23230-793-805-PASS





Band13-0.18-BPSK-763-775-PASS



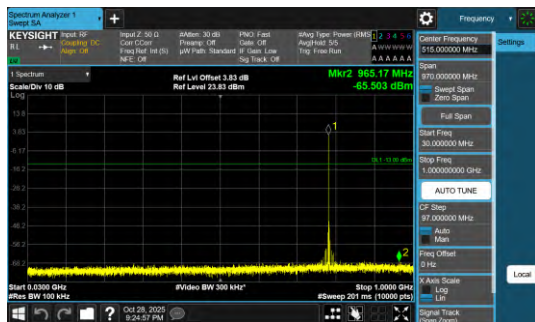
Band13-0.18-BPSK-793-805-PASS



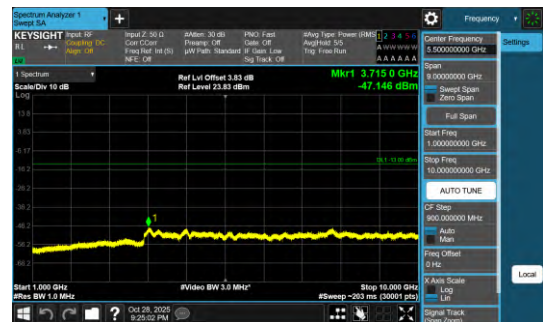
Band13-0.18-QPSK-23279-0.009-0.15-PASS



Band13-0.18-QPSK-23279-0.15-30-PASS



Band13-0.18-QPSK-23279-30-1000-PASS



Band13-0.18-QPSK-23279-1000-10000-PASS



Band13-0.18-QPSK-23279-763-775-PASS



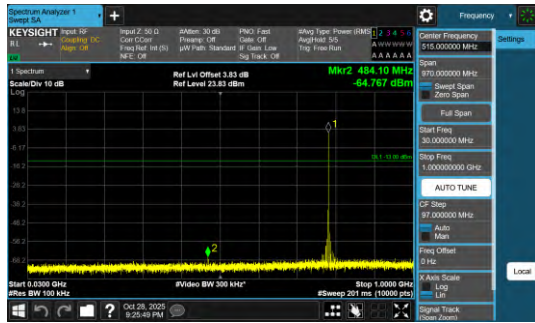
Band13-0.18-QPSK-23279-793-805-PASS



Band13-0.18-QPSK-23279-0.009-0.15-PASS



Band13-0.18-QPSK-23279-0.15-30-PASS



Band13-0.18-QPSK-23279-30-1000-PASS



Band13-0.18-QPSK-23279-1000-10000-PASS



Band13-0.18-QPSK-23279-763-775-PASS



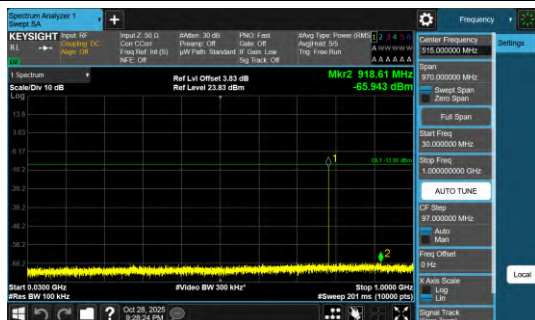
Band13-0.18-QPSK-23279-793-805-PASS



Band13-0.18-QPSK-23279-0.009-0.15-PASS



Band13-0.18-QPSK-23279-0.15-30-PASS



Band13-0.18-QPSK-23279-30-1000-PASS



Band13-0.18-QPSK-23279-1000-10000-PASS



Band13-0.18-QPSK-23279-763-775-PASS



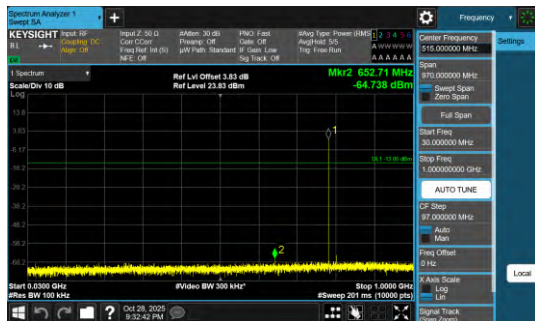
Band13-0.18-QPSK-23279-793-805-PASS



Band13-0.18-BPSK-23279-0.009-0.15-PASS



Band13-0.18-BPSK-23279-0.15-30-PASS



Band13-0.18-BPSK-23279-30-1000-PASS



Band13-0.18-BPSK-23279-1000-10000-PASS



Band13-0.18-BPSK-23279-763-775-PASS



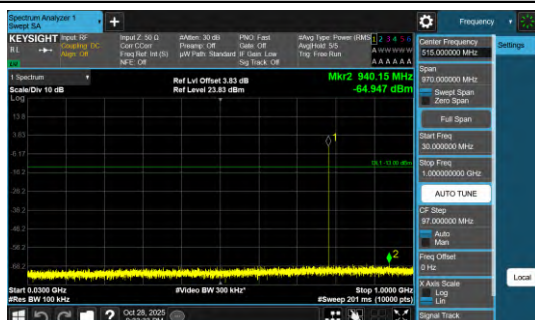
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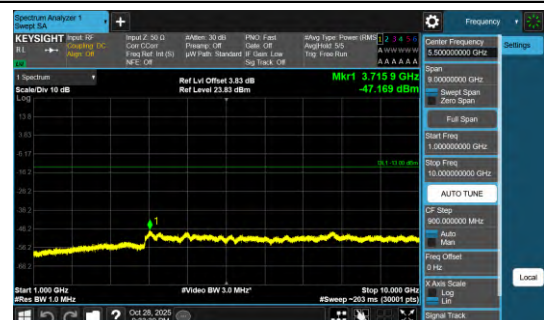
Band13-0.18-BPSK-23279-0.009-0.15-PASS



Band13-0.18-BPSK-23279-0.15-30-PASS



Band13-0.18-BPSK-23279-30-1000-PASS



Band13-0.18-BPSK-23279-1000-10000-PASS



Band13-0.18-BPSK-23279-763-775-PASS



Band13-0.18-BPSK-23279-793-805-PASS

Frequency Stability for NB1

Test Result

Voltage												
Band	OpMode	SCS	Bandwidth	Modulation	Channel	Tones	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	VN	NT	-19.92	-0.025473	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	VL	NT	-15.69	-0.020064	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	VH	NT	-13.54	-0.017315	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	VN	NT	-6.49	-0.008299	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	VL	NT	-7.32	-0.009361	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	VH	NT	-7.42	-0.009488	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	VN	NT	-16.31	-0.020857	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	VL	NT	-16.09	-0.020575	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	VH	NT	-16.03	-0.020499	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	VN	NT	-14.55	-0.018606	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	VL	NT	-13.78	-0.017621	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	VH	NT	-15.13	-0.019348	±2.5	PASS

Temperature												
Band	OpMode	Bandwidth	Modulation	Channel	Tones	SCS	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	-30	-11.23	-0.014361	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	-20	-11.30	-0.014450	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	-10	-8.97	-0.011471	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	0	-8.22	-0.010512	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	10	-9.82	-0.012558	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	20	-9.25	-0.011829	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	30	-9.92	-0.012685	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	40	-7.77	-0.009936	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@0	NV	50	-7.88	-0.010077	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	-30	-7.27	-0.009297	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	-20	-7.10	-0.009079	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	-10	-6.69	-0.008555	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	0	-6.54	-0.008363	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	10	-7.54	-0.009642	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	20	-6.37	-0.008146	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	30	-6.31	-0.008069	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	40	-6.11	-0.007813	±2.5	PASS
Band13	Stand-Alone	3.75kHz	0.18	QPSK	23230	1@47	NV	50	-6.06	-0.007749	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	-30	-16.08	-0.020563	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	-20	-16.35	-0.020908	±2.5	PASS

Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	-10	-14.05	-0.017967	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	0	-15.27	-0.019527	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	10	-16.04	-0.020512	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	20	-14.78	-0.018900	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	30	-14.15	-0.018095	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	40	-18.36	-0.023478	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@0	NV	50	-14.16	-0.018107	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	-30	-14.54	-0.018593	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	-20	-12.58	-0.016087	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	-10	-13.41	-0.017148	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	0	-15.22	-0.019463	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	10	-13.60	-0.017391	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	20	-14.88	-0.019028	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	30	-16.19	-0.020703	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	40	-14.53	-0.018581	±2.5	PASS
Band13	Stand-Alone	15kHz	0.18	QPSK	23230	1@11	NV	50	-16.31	-0.020857	±2.5	PASS