

LTE Band 5 Test Data

FCC ID: 2BTL6-S5

Table of Contents

1. Effective (Isotropic) Radiated Power Output Data.....	2
2. Peak to Average Ratio	5
3. Occupied Bandwidth	7
4. Unwanted Spurious Emission.....	11
5. Band edge.....	20
6. Frequency Stability	28

FCC LTE FDD Test Data

1. Effective (Isotropic) Radiated Power Output Data

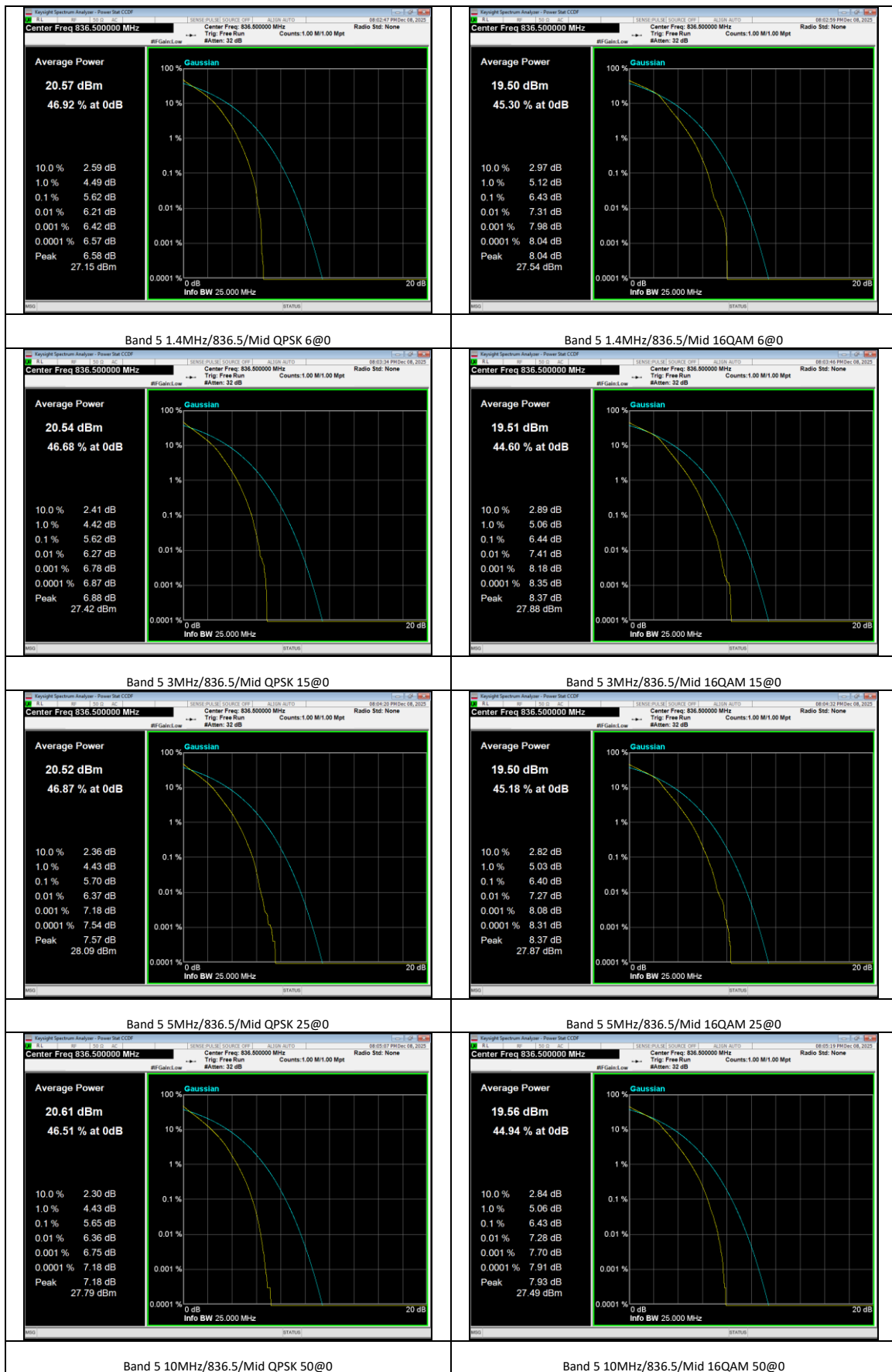
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Conduct ed Power (dBm)	ERP (dBm)	ERP (W)	ERP (Limit) (dBm)	Verdict
5	1.4	20407	824.7	QPSK	1@0	21.27	18.76	0.0752	38.45	PASS
5	1.4	20407	824.7	QPSK	1@2	21.2	18.69	0.074	38.45	PASS
5	1.4	20407	824.7	QPSK	1@5	21.19	18.68	0.0738	38.45	PASS
5	1.4	20407	824.7	QPSK	3@0	21.25	18.74	0.0748	38.45	PASS
5	1.4	20407	824.7	QPSK	3@1	21.24	18.73	0.0746	38.45	PASS
5	1.4	20407	824.7	QPSK	3@2	21.23	18.72	0.0744	38.45	PASS
5	1.4	20407	824.7	QPSK	6@0	20.27	17.76	0.0598	38.45	PASS
5	1.4	20407	824.7	16QAM	1@0	20.23	17.72	0.0592	38.45	PASS
5	1.4	20407	824.7	16QAM	1@2	20.27	17.76	0.0597	38.45	PASS
5	1.4	20407	824.7	16QAM	1@5	20.25	17.74	0.0594	38.45	PASS
5	1.4	20407	824.7	16QAM	3@0	20.21	17.7	0.0588	38.45	PASS
5	1.4	20407	824.7	16QAM	3@1	20.15	17.64	0.0581	38.45	PASS
5	1.4	20407	824.7	16QAM	3@2	20.14	17.63	0.0579	38.45	PASS
5	1.4	20407	824.7	16QAM	6@0	19.22	16.71	0.0469	38.45	PASS
5	1.4	20525	836.5	QPSK	1@0	20.96	18.45	0.0699	38.45	PASS
5	1.4	20525	836.5	QPSK	1@2	21.06	18.55	0.0715	38.45	PASS
5	1.4	20525	836.5	QPSK	1@5	21.01	18.5	0.0708	38.45	PASS
5	1.4	20525	836.5	QPSK	3@0	21.1	18.59	0.0723	38.45	PASS
5	1.4	20525	836.5	QPSK	3@1	21.09	18.58	0.0721	38.45	PASS
5	1.4	20525	836.5	QPSK	3@2	21.03	18.52	0.0712	38.45	PASS
5	1.4	20525	836.5	QPSK	6@0	20.16	17.65	0.0582	38.45	PASS
5	1.4	20525	836.5	16QAM	1@0	19.73	17.22	0.0527	38.45	PASS
5	1.4	20525	836.5	16QAM	1@2	19.68	17.17	0.0522	38.45	PASS
5	1.4	20525	836.5	16QAM	1@5	19.68	17.17	0.0521	38.45	PASS
5	1.4	20525	836.5	16QAM	3@0	20.13	17.62	0.0579	38.45	PASS
5	1.4	20525	836.5	16QAM	3@1	20.14	17.63	0.0579	38.45	PASS
5	1.4	20525	836.5	16QAM	3@2	20.09	17.58	0.0572	38.45	PASS
5	1.4	20525	836.5	16QAM	6@0	19.17	16.66	0.0463	38.45	PASS
5	1.4	20643	848.3	QPSK	1@0	21.15	18.64	0.0732	38.45	PASS
5	1.4	20643	848.3	QPSK	1@2	21.21	18.7	0.0741	38.45	PASS
5	1.4	20643	848.3	QPSK	1@5	21.2	18.69	0.0739	38.45	PASS
5	1.4	20643	848.3	QPSK	3@0	21.26	18.75	0.0751	38.45	PASS
5	1.4	20643	848.3	QPSK	3@1	21.31	18.8	0.0758	38.45	PASS
5	1.4	20643	848.3	QPSK	3@2	21.24	18.73	0.0747	38.45	PASS
5	1.4	20643	848.3	QPSK	6@0	20.25	17.74	0.0595	38.45	PASS
5	1.4	20643	848.3	16QAM	1@0	19.75	17.24	0.053	38.45	PASS
5	1.4	20643	848.3	16QAM	1@2	19.84	17.33	0.0541	38.45	PASS
5	1.4	20643	848.3	16QAM	1@5	19.82	17.31	0.0538	38.45	PASS
5	1.4	20643	848.3	16QAM	3@0	20.22	17.71	0.059	38.45	PASS
5	1.4	20643	848.3	16QAM	3@1	20.24	17.73	0.0593	38.45	PASS
5	1.4	20643	848.3	16QAM	3@2	20.19	17.68	0.0586	38.45	PASS
5	1.4	20643	848.3	16QAM	6@0	19.27	16.76	0.0474	38.45	PASS
5	3.0	20415	825.5	QPSK	1@0	21.22	18.71	0.0743	38.45	PASS
5	3.0	20415	825.5	QPSK	1@7	21.08	18.57	0.0719	38.45	PASS
5	3.0	20415	825.5	QPSK	1@14	21.05	18.54	0.0715	38.45	PASS
5	3.0	20415	825.5	QPSK	8@0	20.26	17.75	0.0595	38.45	PASS
5	3.0	20415	825.5	QPSK	8@4	20.26	17.75	0.0596	38.45	PASS
5	3.0	20415	825.5	QPSK	8@7	20.24	17.73	0.0593	38.45	PASS
5	3.0	20415	825.5	QPSK	15@0	20.19	17.68	0.0587	38.45	PASS
5	3.0	20415	825.5	16QAM	1@0	19.83	17.32	0.054	38.45	PASS
5	3.0	20415	825.5	16QAM	1@7	19.8	17.29	0.0536	38.45	PASS
5	3.0	20415	825.5	16QAM	1@14	19.84	17.33	0.054	38.45	PASS
5	3.0	20415	825.5	16QAM	8@0	19.38	16.87	0.0487	38.45	PASS
5	3.0	20415	825.5	16QAM	8@4	19.38	16.87	0.0486	38.45	PASS
5	3.0	20415	825.5	16QAM	8@7	19.31	16.8	0.0478	38.45	PASS
5	3.0	20415	825.5	16QAM	15@0	19.16	16.65	0.0462	38.45	PASS
5	3.0	20525	836.5	QPSK	1@0	21.21	18.7	0.0741	38.45	PASS
5	3.0	20525	836.5	QPSK	1@7	21.06	18.55	0.0716	38.45	PASS
5	3.0	20525	836.5	QPSK	1@14	21.12	18.61	0.0727	38.45	PASS
5	3.0	20525	836.5	QPSK	8@0	20.05	17.54	0.0568	38.45	PASS
5	3.0	20525	836.5	QPSK	8@4	19.97	17.46	0.0557	38.45	PASS
5	3.0	20525	836.5	QPSK	8@7	20.05	17.54	0.0567	38.45	PASS
5	3.0	20525	836.5	QPSK	15@0	20.04	17.53	0.0566	38.45	PASS
5	3.0	20525	836.5	16QAM	1@0	20.5	17.99	0.0629	38.45	PASS

5	3.0	20525	836.5	16QAM	1@7	20.5	17.99	0.0629	38.45	PASS
5	3.0	20525	836.5	16QAM	1@14	20.51	18.0	0.0631	38.45	PASS
5	3.0	20525	836.5	16QAM	8@0	19.11	16.6	0.0457	38.45	PASS
5	3.0	20525	836.5	16QAM	8@4	19.15	16.64	0.0462	38.45	PASS
5	3.0	20525	836.5	16QAM	8@7	19.22	16.71	0.0469	38.45	PASS
5	3.0	20525	836.5	16QAM	15@0	19.11	16.6	0.0457	38.45	PASS
5	3.0	20635	847.5	QPSK	1@0	21.16	18.65	0.0733	38.45	PASS
5	3.0	20635	847.5	QPSK	1@7	21.2	18.69	0.0739	38.45	PASS
5	3.0	20635	847.5	QPSK	1@14	21.25	18.74	0.0748	38.45	PASS
5	3.0	20635	847.5	QPSK	8@0	20.22	17.71	0.059	38.45	PASS
5	3.0	20635	847.5	QPSK	8@4	20.23	17.72	0.0591	38.45	PASS
5	3.0	20635	847.5	QPSK	8@7	20.23	17.72	0.0592	38.45	PASS
5	3.0	20635	847.5	QPSK	15@0	20.22	17.71	0.059	38.45	PASS
5	3.0	20635	847.5	16QAM	1@0	20.15	17.64	0.058	38.45	PASS
5	3.0	20635	847.5	16QAM	1@7	20.22	17.71	0.0591	38.45	PASS
5	3.0	20635	847.5	16QAM	1@14	20.25	17.74	0.0594	38.45	PASS
5	3.0	20635	847.5	16QAM	8@0	19.16	16.65	0.0462	38.45	PASS
5	3.0	20635	847.5	16QAM	8@4	19.07	16.56	0.0452	38.45	PASS
5	3.0	20635	847.5	16QAM	8@7	19.12	16.61	0.0459	38.45	PASS
5	3.0	20635	847.5	16QAM	15@0	19.23	16.72	0.0469	38.45	PASS
5	5.0	20425	826.5	QPSK	1@0	21.37	18.86	0.077	38.45	PASS
5	5.0	20425	826.5	QPSK	1@12	21.27	18.76	0.0751	38.45	PASS
5	5.0	20425	826.5	QPSK	1@24	21.23	18.72	0.0746	38.45	PASS
5	5.0	20425	826.5	QPSK	12@0	20.21	17.7	0.0589	38.45	PASS
5	5.0	20425	826.5	QPSK	12@6	20.19	17.68	0.0587	38.45	PASS
5	5.0	20425	826.5	QPSK	12@11	20.21	17.7	0.0588	38.45	PASS
5	5.0	20425	826.5	QPSK	25@0	20.2	17.69	0.0587	38.45	PASS
5	5.0	20425	826.5	16QAM	1@0	20.61	18.1	0.0646	38.45	PASS
5	5.0	20425	826.5	16QAM	1@12	20.52	18.01	0.0632	38.45	PASS
5	5.0	20425	826.5	16QAM	1@24	20.45	17.94	0.0623	38.45	PASS
5	5.0	20425	826.5	16QAM	12@0	19.07	16.56	0.0453	38.45	PASS
5	5.0	20425	826.5	16QAM	12@6	19.14	16.63	0.0461	38.45	PASS
5	5.0	20425	826.5	16QAM	12@11	19.13	16.62	0.046	38.45	PASS
5	5.0	20425	826.5	16QAM	25@0	19.11	16.6	0.0458	38.45	PASS
5	5.0	20525	836.5	QPSK	1@0	21.16	18.65	0.0732	38.45	PASS
5	5.0	20525	836.5	QPSK	1@12	21.14	18.63	0.073	38.45	PASS
5	5.0	20525	836.5	QPSK	1@24	21.18	18.67	0.0737	38.45	PASS
5	5.0	20525	836.5	QPSK	12@0	20.1	17.59	0.0574	38.45	PASS
5	5.0	20525	836.5	QPSK	12@6	20.08	17.57	0.0571	38.45	PASS
5	5.0	20525	836.5	QPSK	12@11	20.11	17.6	0.0576	38.45	PASS
5	5.0	20525	836.5	QPSK	25@0	20.09	17.58	0.0573	38.45	PASS
5	5.0	20525	836.5	16QAM	1@0	20.1	17.59	0.0574	38.45	PASS
5	5.0	20525	836.5	16QAM	1@12	20.05	17.54	0.0567	38.45	PASS
5	5.0	20525	836.5	16QAM	1@24	20.08	17.57	0.0571	38.45	PASS
5	5.0	20525	836.5	16QAM	12@0	19.02	16.51	0.0448	38.45	PASS
5	5.0	20525	836.5	16QAM	12@6	19.03	16.52	0.0449	38.45	PASS
5	5.0	20525	836.5	16QAM	12@11	19.06	16.55	0.0452	38.45	PASS
5	5.0	20525	836.5	16QAM	25@0	19.1	16.59	0.0456	38.45	PASS
5	5.0	20625	846.5	QPSK	1@0	21.3	18.79	0.0757	38.45	PASS
5	5.0	20625	846.5	QPSK	1@12	21.31	18.8	0.0758	38.45	PASS
5	5.0	20625	846.5	QPSK	1@24	21.42	18.91	0.0778	38.45	PASS
5	5.0	20625	846.5	QPSK	12@0	20.24	17.73	0.0593	38.45	PASS
5	5.0	20625	846.5	QPSK	12@6	20.18	17.67	0.0584	38.45	PASS
5	5.0	20625	846.5	QPSK	12@11	20.18	17.67	0.0585	38.45	PASS
5	5.0	20625	846.5	QPSK	25@0	20.21	17.7	0.0589	38.45	PASS
5	5.0	20625	846.5	16QAM	1@0	19.8	17.29	0.0535	38.45	PASS
5	5.0	20625	846.5	16QAM	1@12	19.77	17.26	0.0532	38.45	PASS
5	5.0	20625	846.5	16QAM	1@24	19.98	17.47	0.0558	38.45	PASS
5	5.0	20625	846.5	16QAM	12@0	19.2	16.69	0.0467	38.45	PASS
5	5.0	20625	846.5	16QAM	12@6	19.16	16.65	0.0463	38.45	PASS
5	5.0	20625	846.5	16QAM	12@11	19.21	16.7	0.0468	38.45	PASS
5	5.0	20625	846.5	16QAM	25@0	19.22	16.71	0.0469	38.45	PASS
5	10.0	20450	829.0	QPSK	1@0	21.26	18.75	0.075	38.45	PASS
5	10.0	20450	829.0	QPSK	1@24	21.2	18.69	0.074	38.45	PASS
5	10.0	20450	829.0	QPSK	1@49	21.14	18.63	0.0729	38.45	PASS
5	10.0	20450	829.0	QPSK	25@0	20.16	17.65	0.0583	38.45	PASS
5	10.0	20450	829.0	QPSK	25@12	20.2	17.69	0.0588	38.45	PASS
5	10.0	20450	829.0	QPSK	25@24	20.21	17.7	0.0588	38.45	PASS
5	10.0	20450	829.0	QPSK	50@0	20.22	17.71	0.059	38.45	PASS
5	10.0	20450	829.0	16QAM	1@0	20.29	17.78	0.06	38.45	PASS
5	10.0	20450	829.0	16QAM	1@24	20.15	17.64	0.058	38.45	PASS
5	10.0	20450	829.0	16QAM	1@49	20.18	17.67	0.0585	38.45	PASS
5	10.0	20450	829.0	16QAM	25@0	19.21	16.7	0.0468	38.45	PASS
5	10.0	20450	829.0	16QAM	25@12	19.21	16.7	0.0468	38.45	PASS
5	10.0	20450	829.0	16QAM	25@24	19.25	16.74	0.0472	38.45	PASS
5	10.0	20450	829.0	16QAM	50@0	19.17	16.66	0.0463	38.45	PASS
5	10.0	20525	836.5	QPSK	1@0	21.14	18.63	0.0729	38.45	PASS
5	10.0	20525	836.5	QPSK	1@24	21.15	18.64	0.0732	38.45	PASS
5	10.0	20525	836.5	QPSK	1@49	21.25	18.74	0.0748	38.45	PASS
5	10.0	20525	836.5	QPSK	25@0	20.13	17.62	0.0579	38.45	PASS

5	10.0	20525	836.5	QPSK	25@12	20.14	17.63	0.058	38.45	PASS
5	10.0	20525	836.5	QPSK	25@24	20.13	17.62	0.0578	38.45	PASS
5	10.0	20525	836.5	QPSK	50@0	20.24	17.73	0.0592	38.45	PASS
5	10.0	20525	836.5	16QAM	1@0	20.14	17.63	0.0579	38.45	PASS
5	10.0	20525	836.5	16QAM	1@24	20.25	17.74	0.0594	38.45	PASS
5	10.0	20525	836.5	16QAM	1@49	20.24	17.73	0.0593	38.45	PASS
5	10.0	20525	836.5	16QAM	25@0	19.22	16.71	0.0469	38.45	PASS
5	10.0	20525	836.5	16QAM	25@12	19.19	16.68	0.0466	38.45	PASS
5	10.0	20525	836.5	16QAM	25@24	19.19	16.68	0.0465	38.45	PASS
5	10.0	20525	836.5	16QAM	50@0	19.18	16.67	0.0465	38.45	PASS
5	10.0	20600	844.0	QPSK	1@0	21.07	18.56	0.0718	38.45	PASS
5	10.0	20600	844.0	QPSK	1@24	21.16	18.65	0.0732	38.45	PASS
5	10.0	20600	844.0	QPSK	1@49	21.17	18.66	0.0734	38.45	PASS
5	10.0	20600	844.0	QPSK	25@0	20.19	17.68	0.0586	38.45	PASS
5	10.0	20600	844.0	QPSK	25@12	20.2	17.69	0.0588	38.45	PASS
5	10.0	20600	844.0	QPSK	25@24	20.2	17.69	0.0587	38.45	PASS
5	10.0	20600	844.0	QPSK	50@0	20.23	17.72	0.0592	38.45	PASS
5	10.0	20600	844.0	16QAM	1@0	19.71	17.2	0.0525	38.45	PASS
5	10.0	20600	844.0	16QAM	1@24	19.77	17.26	0.0532	38.45	PASS
5	10.0	20600	844.0	16QAM	1@49	19.88	17.37	0.0545	38.45	PASS
5	10.0	20600	844.0	16QAM	25@0	19.25	16.74	0.0472	38.45	PASS
5	10.0	20600	844.0	16QAM	25@12	19.25	16.74	0.0472	38.45	PASS
5	10.0	20600	844.0	16QAM	25@24	19.27	16.76	0.0474	38.45	PASS
5	10.0	20600	844.0	16QAM	50@0	19.25	16.74	0.0472	38.45	PASS

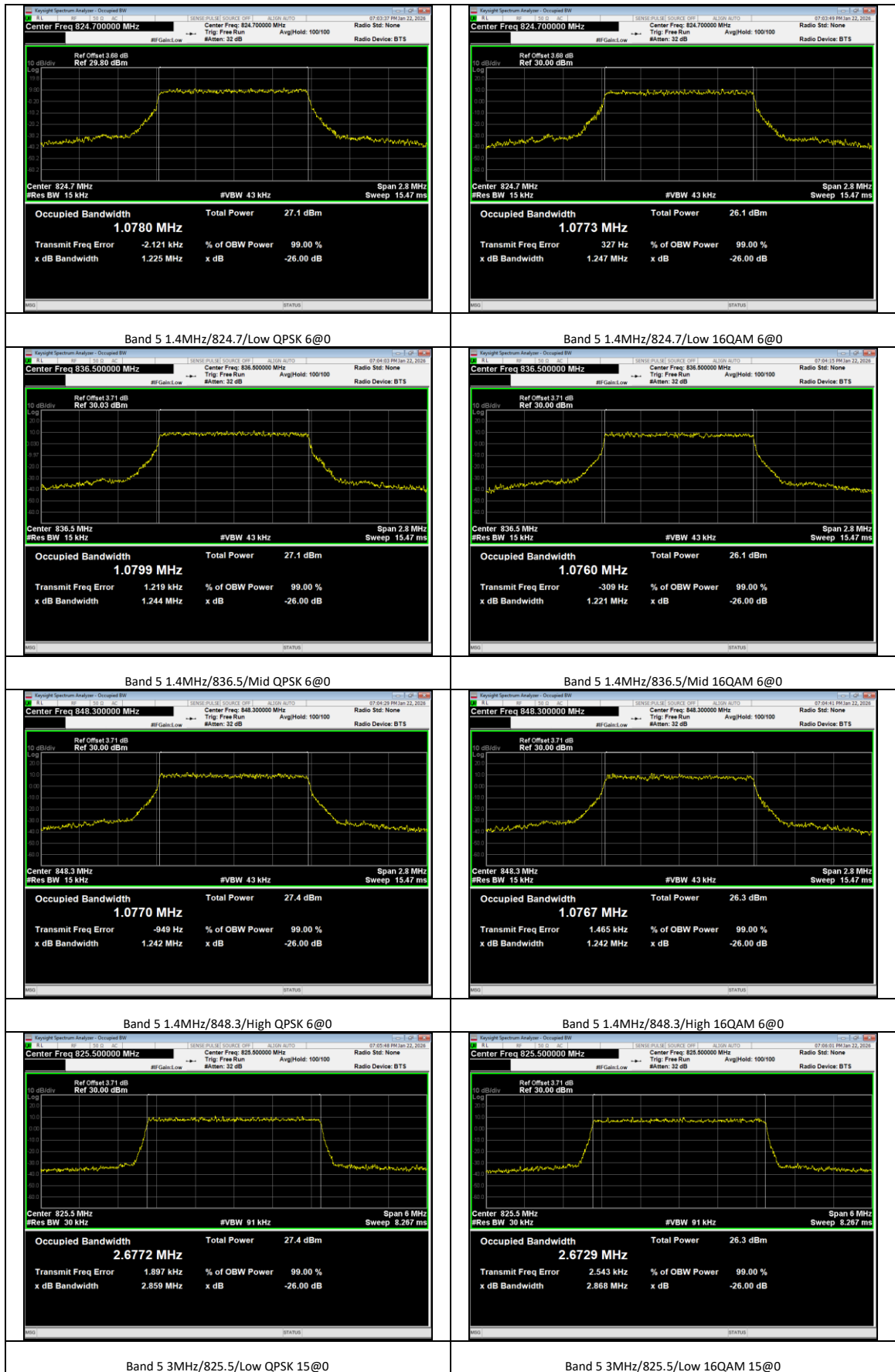
2. Peak to Average Ratio

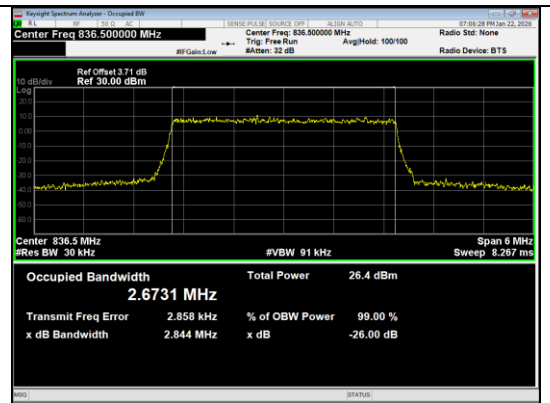
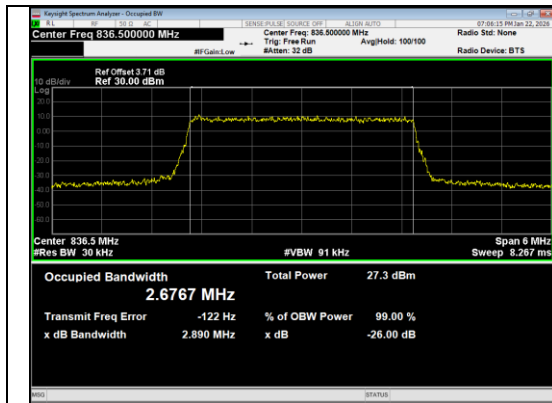
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
5	1.4	20525	836.5	QPSK	6@0	5.62	13	PASS
5	1.4	20525	836.5	16QAM	6@0	6.43	13	PASS
5	3.0	20525	836.5	QPSK	15@0	5.62	13	PASS
5	3.0	20525	836.5	16QAM	15@0	6.44	13	PASS
5	5.0	20525	836.5	QPSK	25@0	5.7	13	PASS
5	5.0	20525	836.5	16QAM	25@0	6.4	13	PASS
5	10.0	20525	836.5	QPSK	50@0	5.65	13	PASS
5	10.0	20525	836.5	16QAM	50@0	6.43	13	PASS



3. Occupied Bandwidth

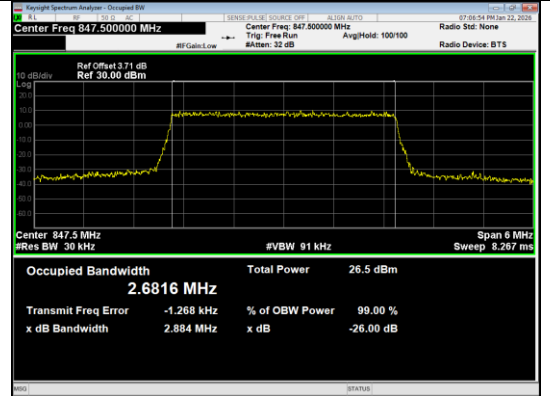
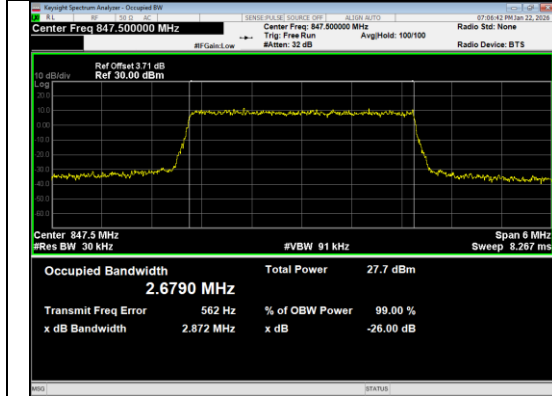
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
5	1.4	20407	824.7	QPSK	6@0	1.0780	1.225	PASS
5	1.4	20407	824.7	16QAM	6@0	1.0773	1.247	PASS
5	1.4	20525	836.5	QPSK	6@0	1.0799	1.244	PASS
5	1.4	20525	836.5	16QAM	6@0	1.0760	1.221	PASS
5	1.4	20643	848.3	QPSK	6@0	1.0770	1.242	PASS
5	1.4	20643	848.3	16QAM	6@0	1.0767	1.242	PASS
5	3.0	20415	825.5	QPSK	15@0	2.6772	2.859	PASS
5	3.0	20415	825.5	16QAM	15@0	2.6729	2.868	PASS
5	3.0	20525	836.5	QPSK	15@0	2.6767	2.890	PASS
5	3.0	20525	836.5	16QAM	15@0	2.6731	2.844	PASS
5	3.0	20635	847.5	QPSK	15@0	2.6790	2.872	PASS
5	3.0	20635	847.5	16QAM	15@0	2.6816	2.884	PASS
5	5.0	20425	826.5	QPSK	25@0	4.4504	4.802	PASS
5	5.0	20425	826.5	16QAM	25@0	4.4539	4.842	PASS
5	5.0	20525	836.5	QPSK	25@0	4.4582	4.832	PASS
5	5.0	20525	836.5	16QAM	25@0	4.4479	4.823	PASS
5	5.0	20625	846.5	QPSK	25@0	4.4750	4.796	PASS
5	5.0	20625	846.5	16QAM	25@0	4.4567	4.824	PASS
5	10.0	20450	829.0	QPSK	50@0	8.9338	9.527	PASS
5	10.0	20450	829.0	16QAM	50@0	8.9318	9.554	PASS
5	10.0	20525	836.5	QPSK	50@0	8.9390	9.611	PASS
5	10.0	20525	836.5	16QAM	50@0	8.9378	9.497	PASS
5	10.0	20600	844.0	QPSK	50@0	8.9448	9.616	PASS
5	10.0	20600	844.0	16QAM	50@0	8.9350	9.530	PASS





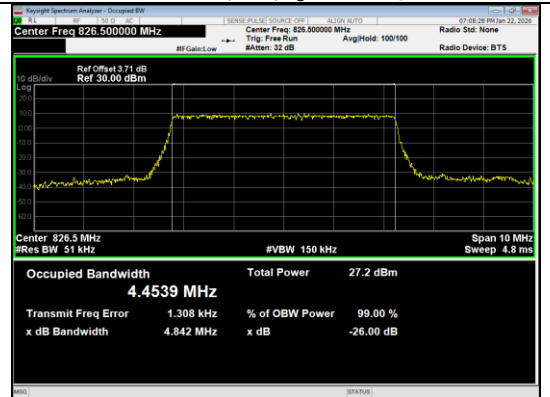
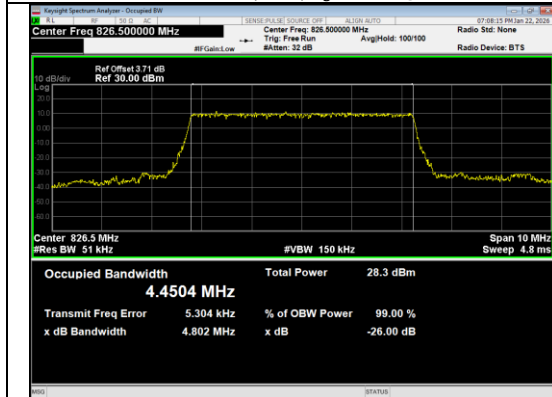
Band 5 3MHz/836.5/Mid QPSK 15@0

Band 5 3MHz/836.5/Mid 16QAM 15@0



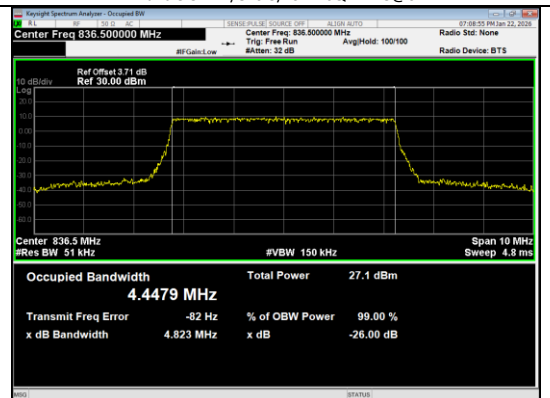
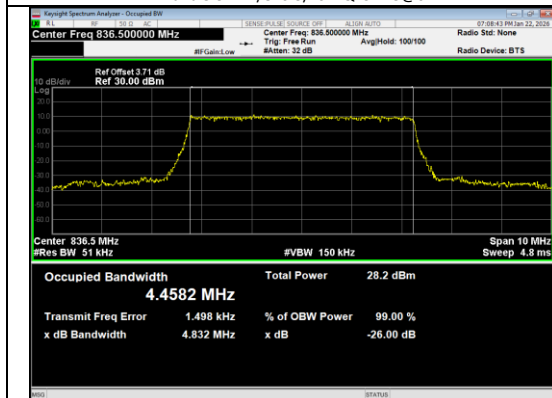
Band 5 3MHz/847.5/High QPSK 15@0

Band 5 3MHz/847.5/High 16QAM 15@0



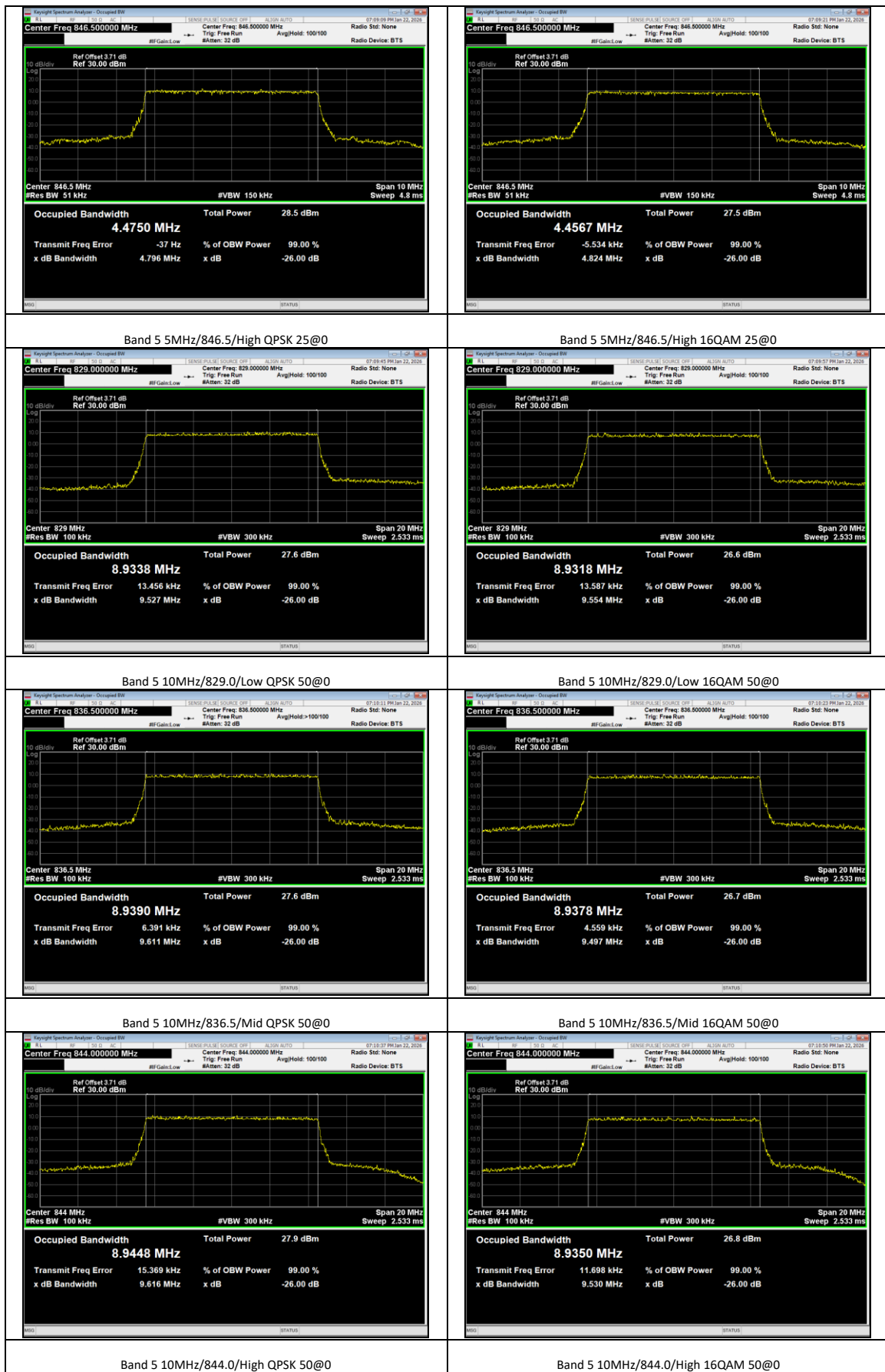
Band 5 5MHz/826.5/Low QPSK 25@0

Band 5 5MHz/826.5/Low 16QAM 25@0



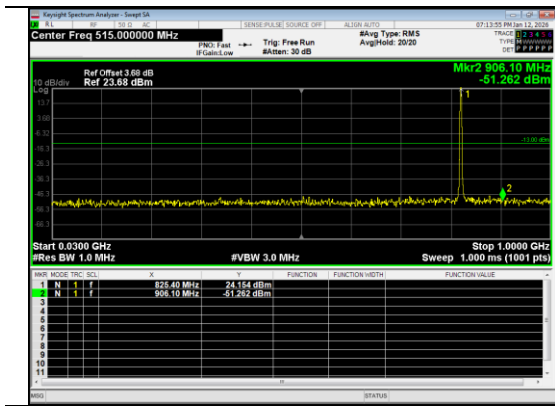
Band 5 5MHz/836.5/Mid QPSK 25@0

Band 5 5MHz/836.5/Mid 16QAM 25@0

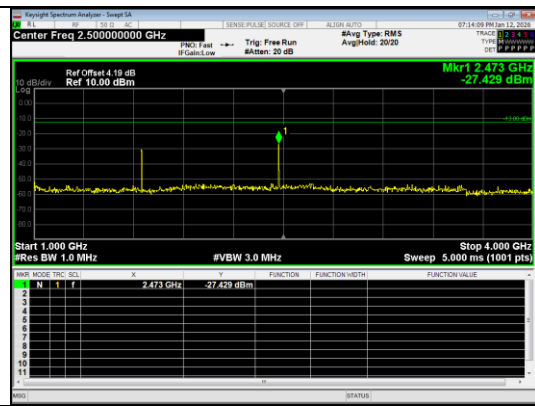


4. Unwanted Spurious Emission

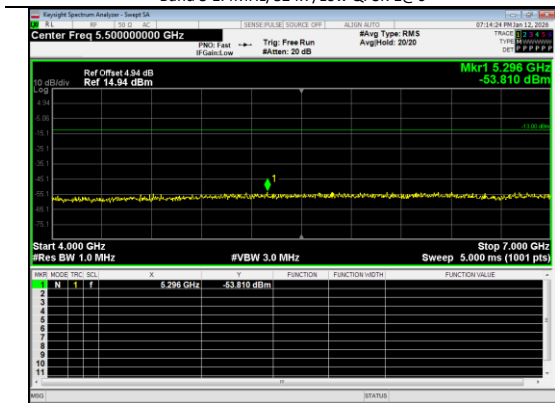
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	StartFreq (MHz)	StopFreq (MHz)	Result (dBm)	Limit (dBm)	Verdict
5	1.4	20407	824.7	QPSK	1@0	30	1000	-47.15	-13	PASS
5	1.4	20407	824.7	QPSK	1@0	1000	4000	-27.43	-13	PASS
5	1.4	20407	824.7	QPSK	1@0	4000	7000	-53.81	-13	PASS
5	1.4	20407	824.7	QPSK	1@0	7000	10000	-53.48	-13	PASS
5	1.4	20407	824.7	16QAM	1@0	30	1000	-47.27	-13	PASS
5	1.4	20407	824.7	16QAM	1@0	1000	4000	-27.85	-13	PASS
5	1.4	20407	824.7	16QAM	1@0	4000	7000	-52.34	-13	PASS
5	1.4	20407	824.7	16QAM	1@0	7000	10000	-53.81	-13	PASS
5	1.4	20643	848.3	QPSK	1@0	30	1000	-48.04	-13	PASS
5	1.4	20643	848.3	QPSK	1@0	1000	4000	-54.27	-13	PASS
5	1.4	20643	848.3	QPSK	1@0	4000	7000	-53.67	-13	PASS
5	1.4	20643	848.3	QPSK	1@0	7000	10000	-53.04	-13	PASS
5	1.4	20643	848.3	16QAM	1@0	30	1000	-47.75	-13	PASS
5	1.4	20643	848.3	16QAM	1@0	1000	4000	-27.71	-13	PASS
5	1.4	20643	848.3	16QAM	1@0	4000	7000	-52.43	-13	PASS
5	1.4	20643	848.3	16QAM	1@0	7000	10000	-53.38	-13	PASS
5	3.0	20415	825.5	QPSK	1@0	30	1000	-45.14	-13	PASS
5	3.0	20415	825.5	QPSK	1@0	1000	4000	-29.05	-13	PASS
5	3.0	20415	825.5	QPSK	1@0	4000	7000	-53.3	-13	PASS
5	3.0	20415	825.5	QPSK	1@0	7000	10000	-52.6	-13	PASS
5	3.0	20415	825.5	16QAM	1@0	30	1000	-48.19	-13	PASS
5	3.0	20415	825.5	16QAM	1@0	1000	4000	-29.5	-13	PASS
5	3.0	20415	825.5	16QAM	1@0	4000	7000	-52.41	-13	PASS
5	3.0	20415	825.5	16QAM	1@0	7000	10000	-53.37	-13	PASS
5	3.0	20635	847.5	QPSK	1@0	30	1000	-46.82	-13	PASS
5	3.0	20635	847.5	QPSK	1@0	1000	4000	-24.56	-13	PASS
5	3.0	20635	847.5	QPSK	1@0	4000	7000	-53.23	-13	PASS
5	3.0	20635	847.5	QPSK	1@0	7000	10000	-53.26	-13	PASS
5	3.0	20635	847.5	16QAM	1@0	30	1000	-47.85	-13	PASS
5	3.0	20635	847.5	16QAM	1@0	1000	4000	-29.89	-13	PASS
5	3.0	20635	847.5	16QAM	1@0	4000	7000	-52.83	-13	PASS
5	3.0	20635	847.5	16QAM	1@0	7000	10000	-53.72	-13	PASS
5	5.0	20425	826.5	QPSK	1@0	30	1000	-48.47	-13	PASS
5	5.0	20425	826.5	QPSK	1@0	1000	4000	-28.75	-13	PASS
5	5.0	20425	826.5	QPSK	1@0	4000	7000	-52.93	-13	PASS
5	5.0	20425	826.5	QPSK	1@0	7000	10000	-53.47	-13	PASS
5	5.0	20425	826.5	16QAM	1@0	30	1000	-47.99	-13	PASS
5	5.0	20425	826.5	16QAM	1@0	1000	4000	-28.39	-13	PASS
5	5.0	20425	826.5	16QAM	1@0	4000	7000	-53.26	-13	PASS
5	5.0	20425	826.5	16QAM	1@0	7000	10000	-53.33	-13	PASS
5	5.0	20625	846.5	QPSK	1@0	30	1000	-48.33	-13	PASS
5	5.0	20625	846.5	QPSK	1@0	1000	4000	-25.67	-13	PASS
5	5.0	20625	846.5	QPSK	1@0	4000	7000	-53.23	-13	PASS
5	5.0	20625	846.5	QPSK	1@0	7000	10000	-53.21	-13	PASS
5	5.0	20625	846.5	16QAM	1@0	30	1000	-48.48	-13	PASS
5	5.0	20625	846.5	16QAM	1@0	1000	4000	-29.59	-13	PASS
5	5.0	20625	846.5	16QAM	1@0	4000	7000	-53.32	-13	PASS
5	5.0	20625	846.5	16QAM	1@0	7000	10000	-53.66	-13	PASS
5	10.0	20450	829.0	QPSK	1@0	30	1000	-47.52	-13	PASS
5	10.0	20450	829.0	QPSK	1@0	1000	4000	-26.41	-13	PASS
5	10.0	20450	829.0	QPSK	1@0	4000	7000	-52.97	-13	PASS
5	10.0	20450	829.0	QPSK	1@0	7000	10000	-53.81	-13	PASS
5	10.0	20450	829.0	16QAM	1@0	30	1000	-48.51	-13	PASS
5	10.0	20450	829.0	16QAM	1@0	1000	4000	-31.23	-13	PASS
5	10.0	20450	829.0	16QAM	1@0	4000	7000	-52.78	-13	PASS
5	10.0	20450	829.0	16QAM	1@0	7000	10000	-53.38	-13	PASS
5	10.0	20600	844.0	QPSK	1@0	30	1000	-47.1	-13	PASS
5	10.0	20600	844.0	QPSK	1@0	1000	4000	-24.4	-13	PASS
5	10.0	20600	844.0	QPSK	1@0	4000	7000	-52.81	-13	PASS
5	10.0	20600	844.0	QPSK	1@0	7000	10000	-53.62	-13	PASS
5	10.0	20600	844.0	16QAM	1@0	30	1000	-49.01	-13	PASS
5	10.0	20600	844.0	16QAM	1@0	1000	4000	-25.83	-13	PASS
5	10.0	20600	844.0	16QAM	1@0	4000	7000	-53.19	-13	PASS
5	10.0	20600	844.0	16QAM	1@0	7000	10000	-53.77	-13	PASS



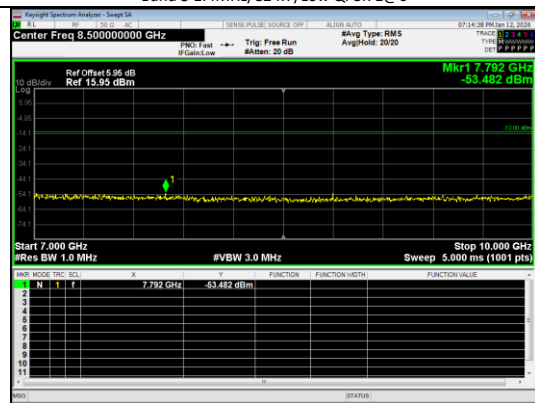
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Band 5 1.4MHz/824.7/Low QPSK 1@0



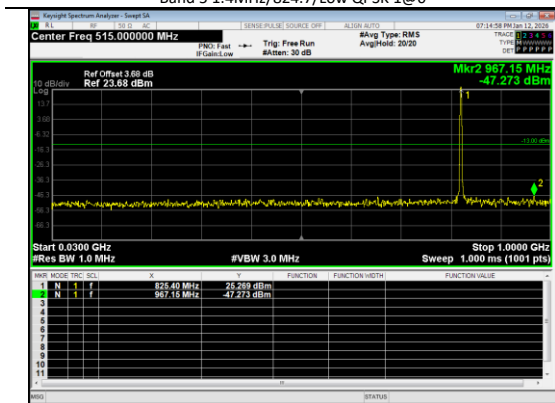
1000.0MHz-4000.0MHz
Band 5 1.4MHz/824.7/Low QPSK 1@0



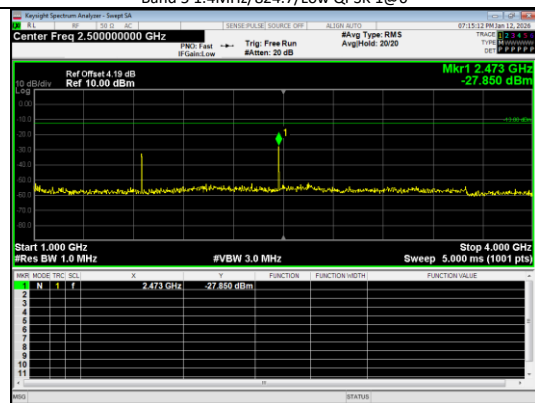
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Band 5 1.4MHz/824.7/Low QPSK 1@0



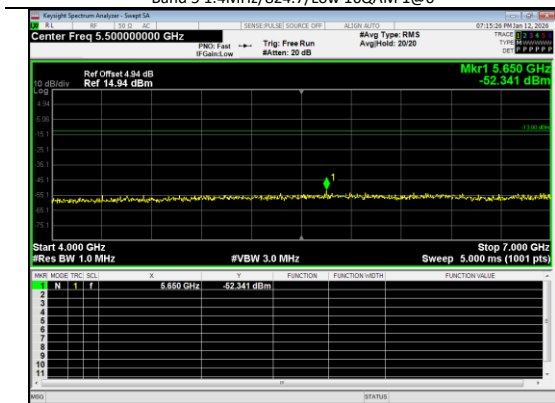
7000.0MHz-10000.0MHz
Band 5 1.4MHz/824.7/Low QPSK 1@0



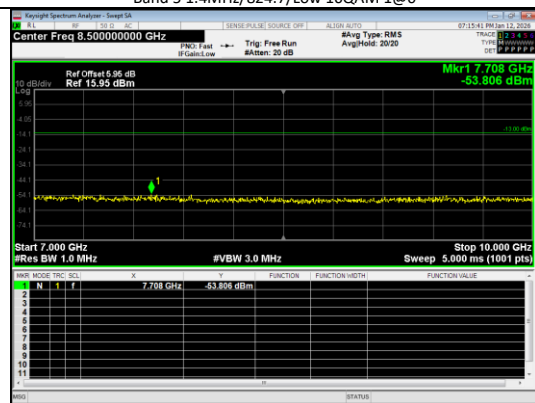
30.0MHz-1000.0MHz
Band 5 1.4MHz/824.7/Low 16QAM 1@0



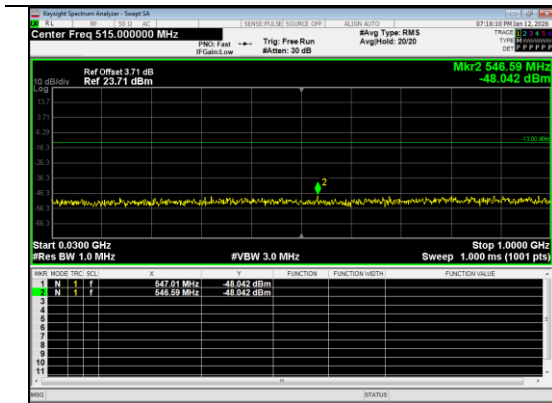
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Band 5 1.4MHz/824.7/Low 16QAM 1@0



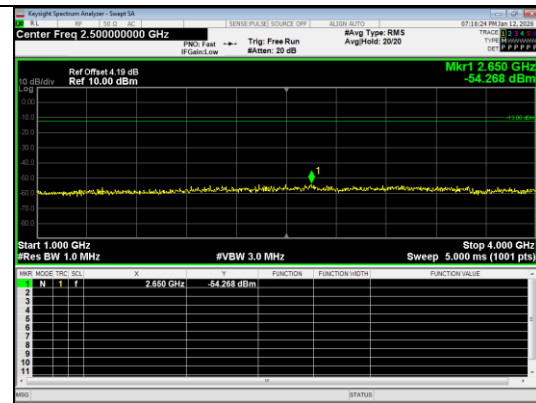
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Band 5 1.4MHz/824.7/Low 16QAM 1@0



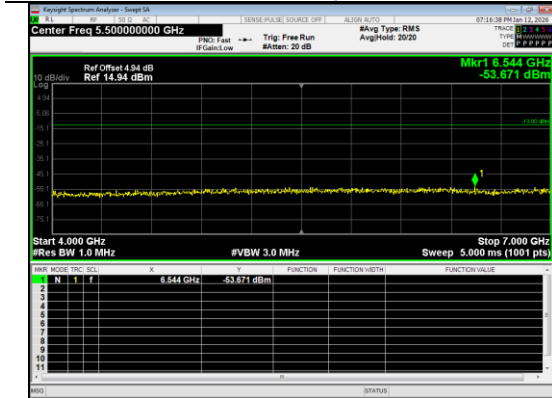
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Band 5 1.4MHz/824.7/Low 16QAM 1@0



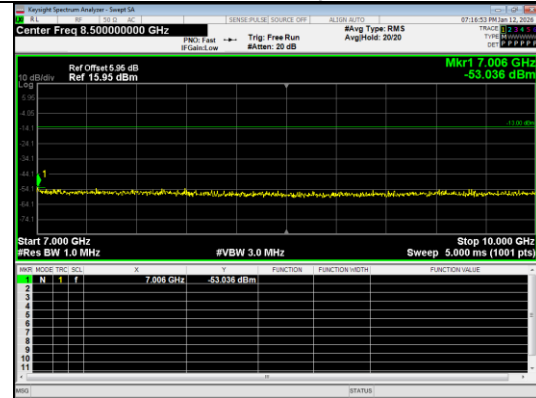
30.0MHz-1000.0MHz
Band 5 1.4MHz/848.3/High QPSK 1@0



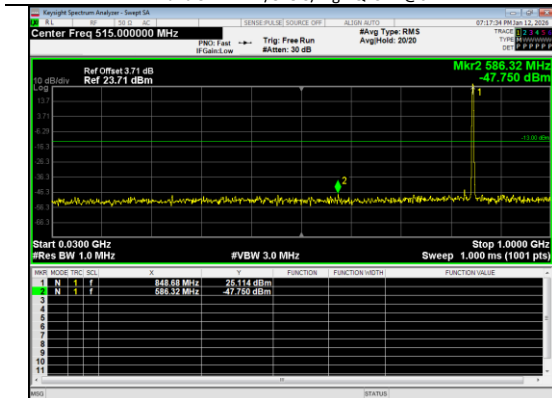
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Band 5 1.4MHz/848.3/High QPSK 1@0



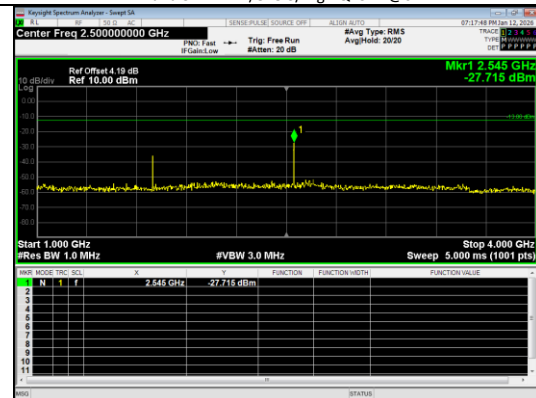
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Band 5 1.4MHz/848.3/High QPSK 1@0



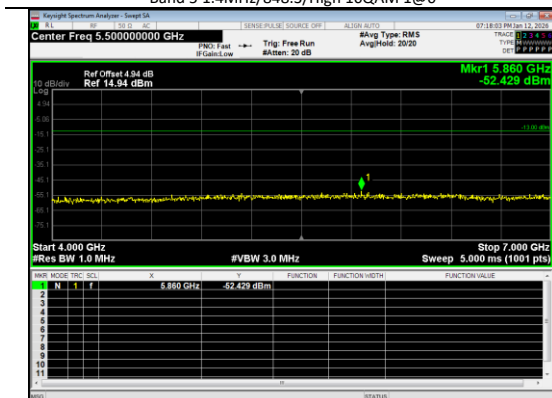
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Band 5 1.4MHz/848.3/High QPSK 1@0



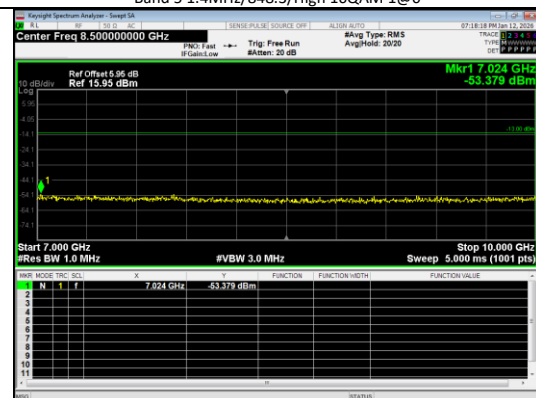
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Band 5 1.4MHz/848.3/High 16QAM 1@0



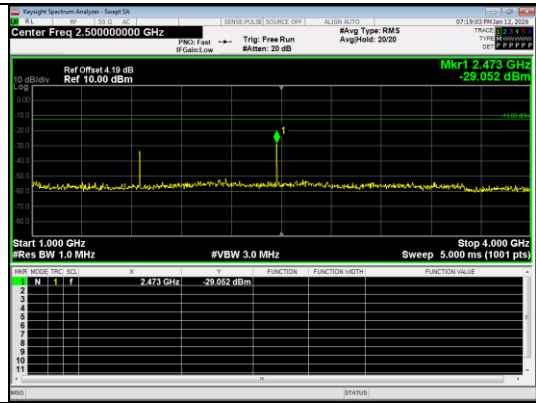
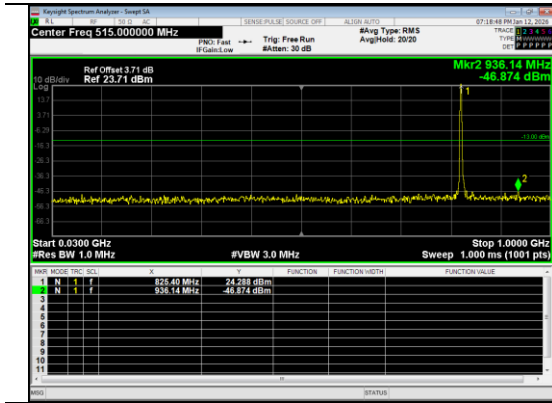
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Band 5 1.4MHz/848.3/High 16QAM 1@0



4000.0MHz-7000.0MHz
Band 5 1.4MHz/848.3/High 16QAM 1@0

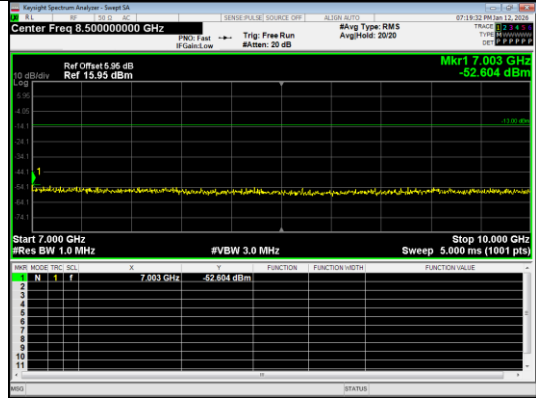
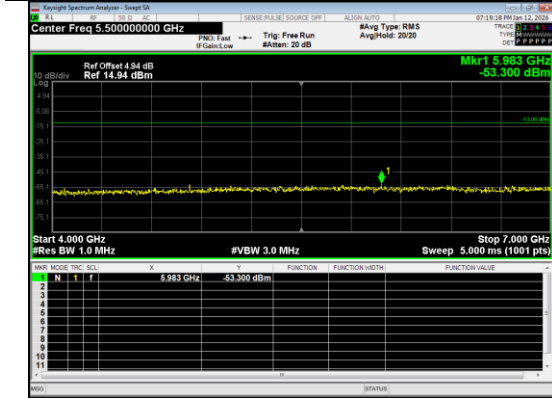


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Band 5 1.4MHz/848.3/High 16QAM 1@0



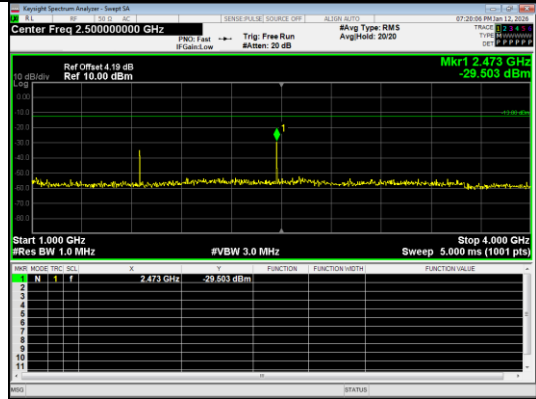
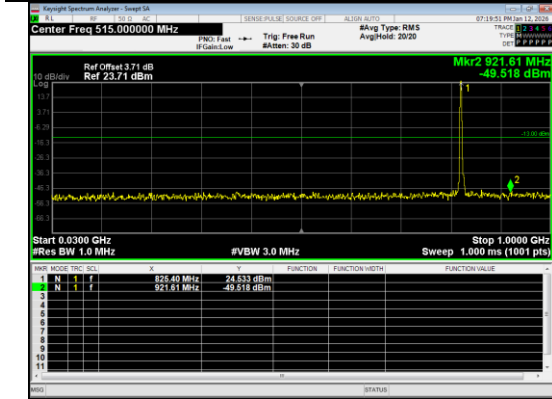
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Band 5 3MHz/825.5/Low QPSK 1@0

1000.0MHz-4000.0MHz
Band 5 3MHz/825.5/Low QPSK 1@0



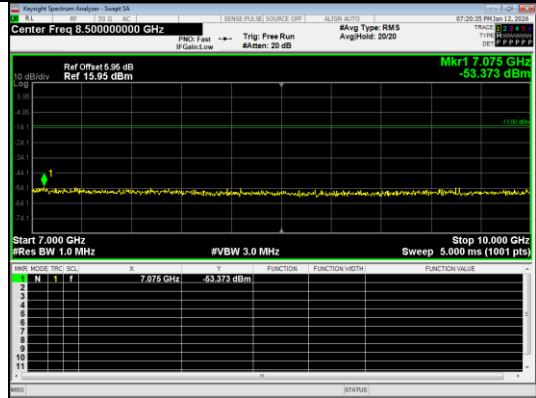
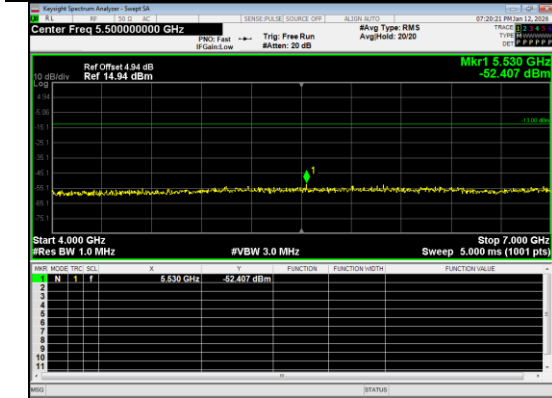
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Band 5 3MHz/825.5/Low QPSK 1@0

7000.0MHz-10000.0MHz
Band 5 3MHz/825.5/Low QPSK 1@0



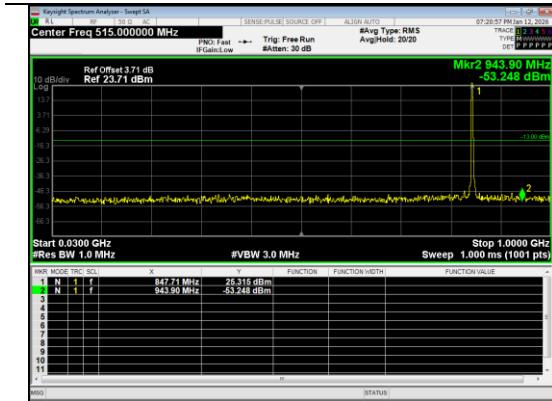
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Band 5 3MHz/825.5/Low 16QAM 1@0

1000.0MHz-4000.0MHz
Band 5 3MHz/825.5/Low 16QAM 1@0

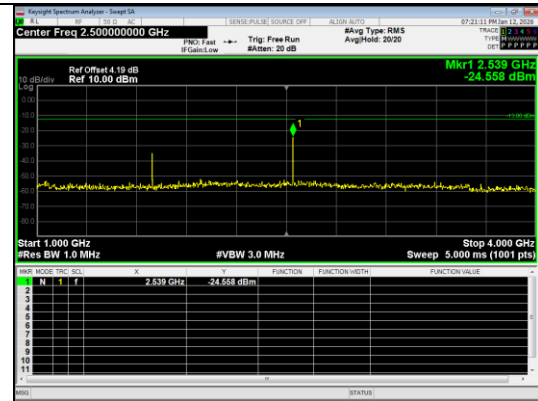


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Band 5 3MHz/825.5/Low 16QAM 1@0

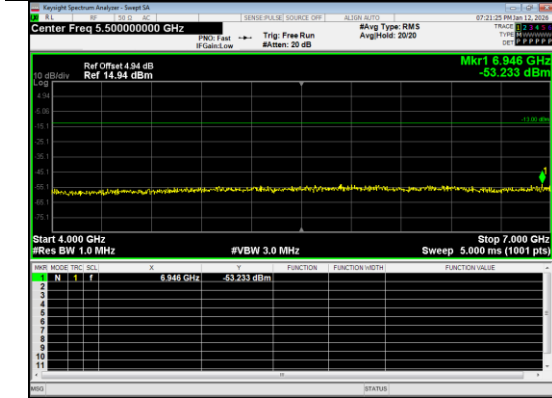
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Band 5 3MHz/825.5/Low 16QAM 1@0



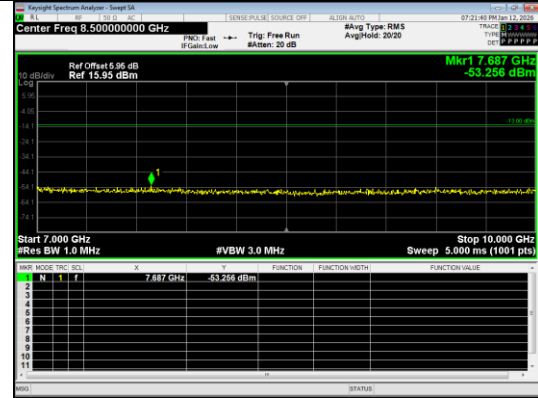
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Band 5 3MHz/847.5/High QPSK 1@0



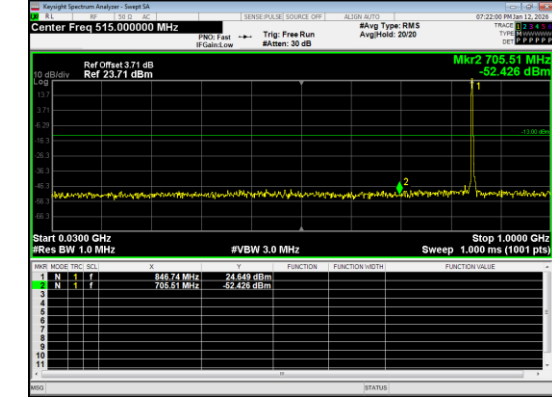
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Band 5 3MHz/847.5/High QPSK 1@0



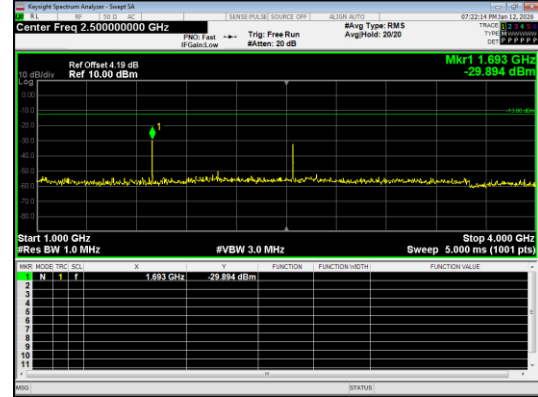
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Band 5 3MHz/847.5/High QPSK 1@0



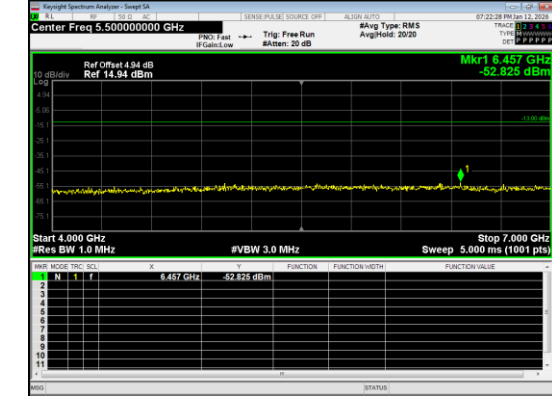
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Band 5 3MHz/847.5/High QPSK 1@0



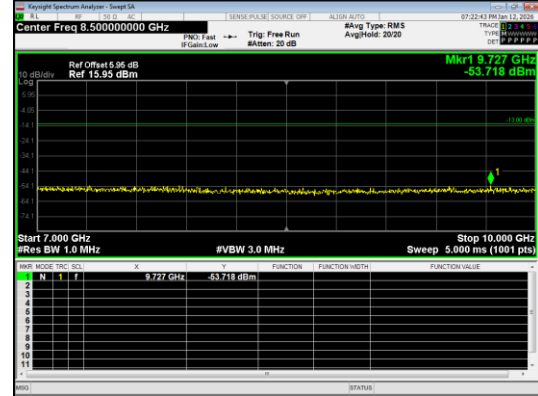
30.0MHz-1000.0MHz
Band 5 3MHz/847.5/High 16QAM 1@0



1000.0MHz-4000.0MHz
Band 5 3MHz/847.5/High 16QAM 1@0



4000.0MHz-7000.0MHz
Band 5 3MHz/847.5/High 16QAM 1@0



7000.0MHz-10000.0MHz
Band 5 3MHz/847.5/High 16QAM 1@0