

LTE Test Data

General Description of EUT	
Product Name:	4G CAMERA
Test Model:	X30
Sample ID:	HC-C-202405-0316-03-01#
Environmental Conditions	
Temperature:	22.0℃-25℃
Relative Humidity:	43%-55%
Test Voltage:	DC 5V
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202405-0316-8 . The report only show the worst case data.	

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1: Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.40	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.28	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.34	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.28	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.15	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.43	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.38	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.26	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.44	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.17	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.22	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.27	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.55	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.28	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.21	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.01	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.99	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.99	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.96	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.99	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.39	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.25	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.23	PASS
Band13	5MHz	16QAM	23205	12RB#0	22.27	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.23	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.40	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.26	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.23	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.92	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.39	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.18	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.23	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.24	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.11	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.16	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.09	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.96	PASS
Band13	5MHz	16QAM	23255	12RB#0	22.08	PASS

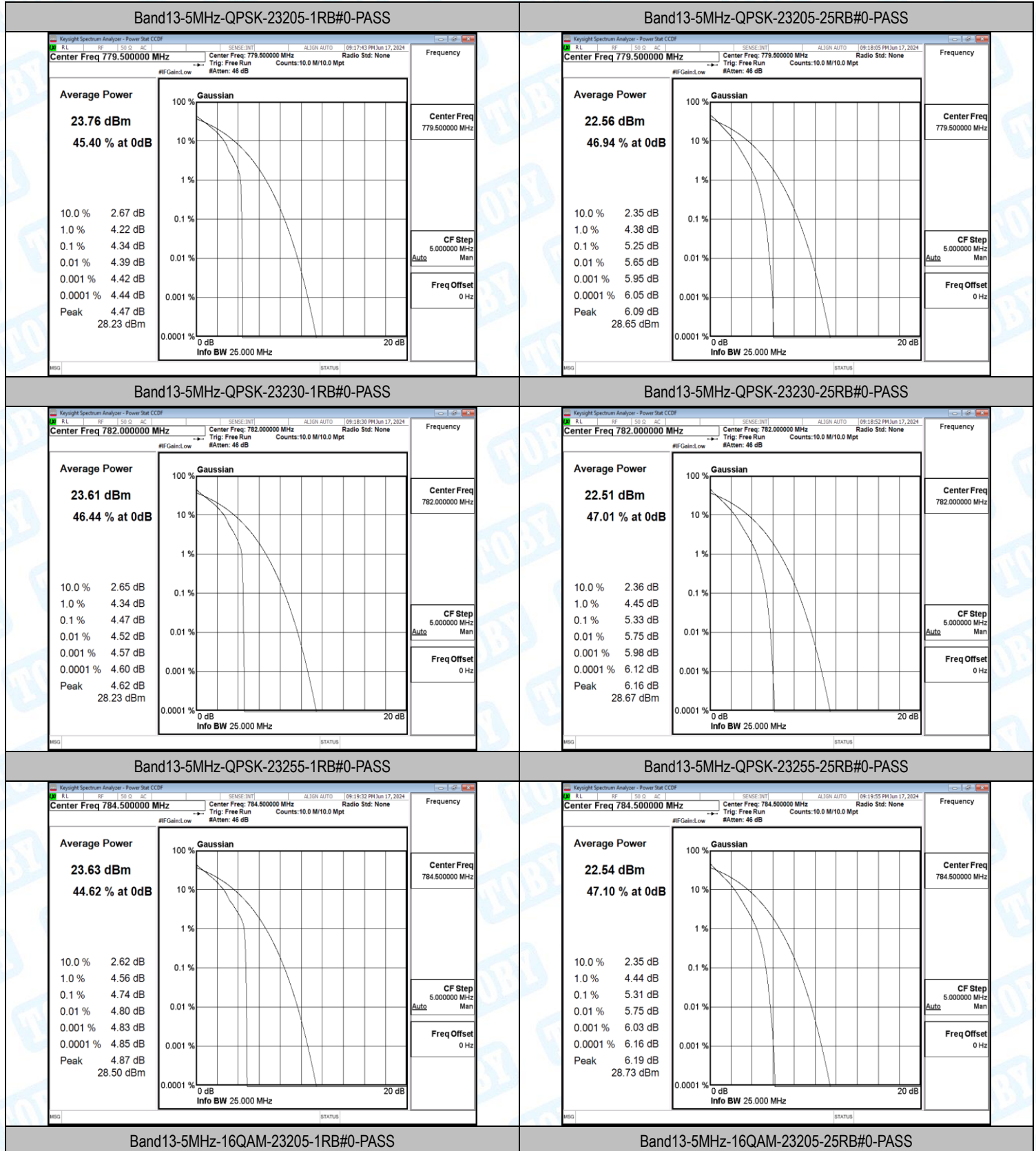
Band13	5MHz	16QAM	23255	12RB#6	22.16	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.09	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.02	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.39	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.53	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.33	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.47	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.47	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.43	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.38	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.34	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.88	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.48	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.39	PASS
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Band13	10MHz	16QAM	23230	25RB#25	21.45	PASS

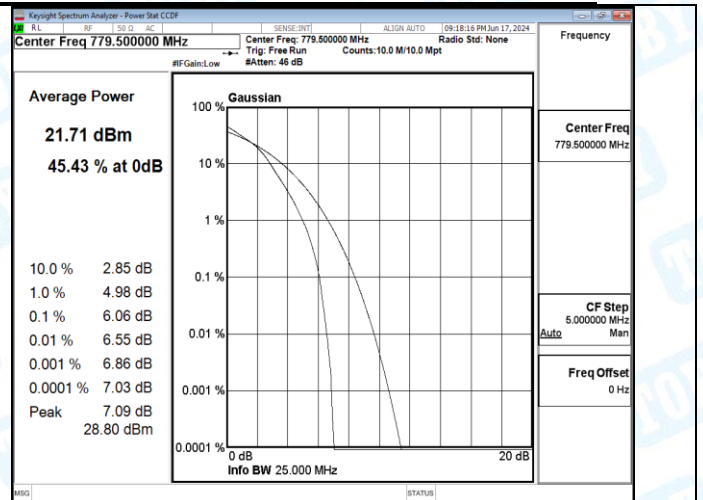
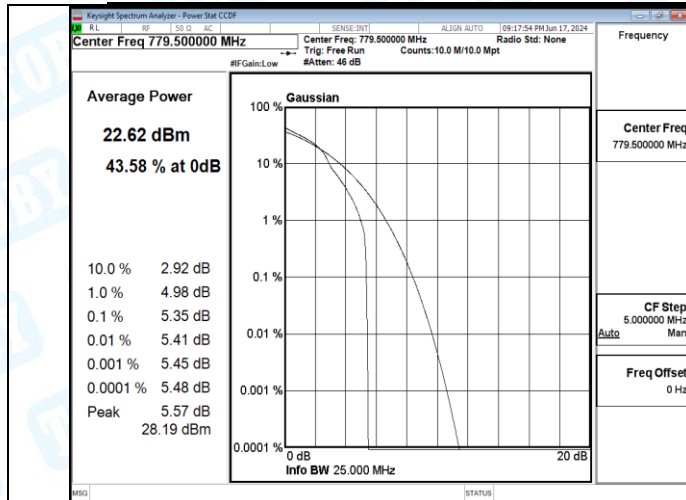
2: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.34	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.25	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.47	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.33	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.74	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.31	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.35	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.06	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.32	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	8.43	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.66	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.11	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.43	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.30	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.29	13	PASS
Band13	10MHz	16QAM	23230	27RB#0	6.32	13	PASS

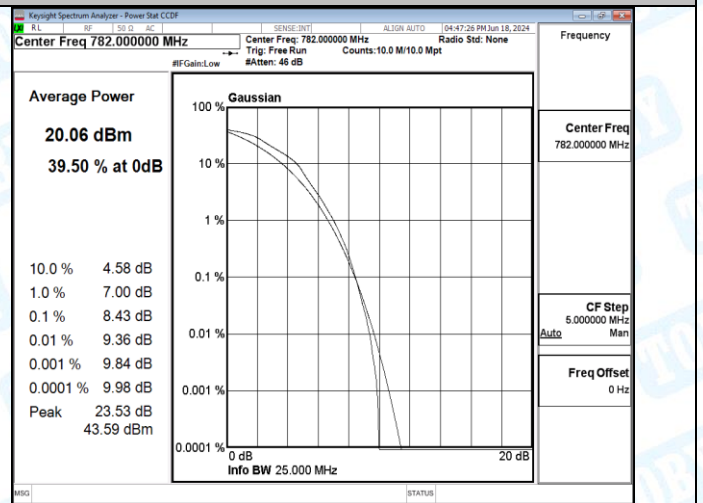
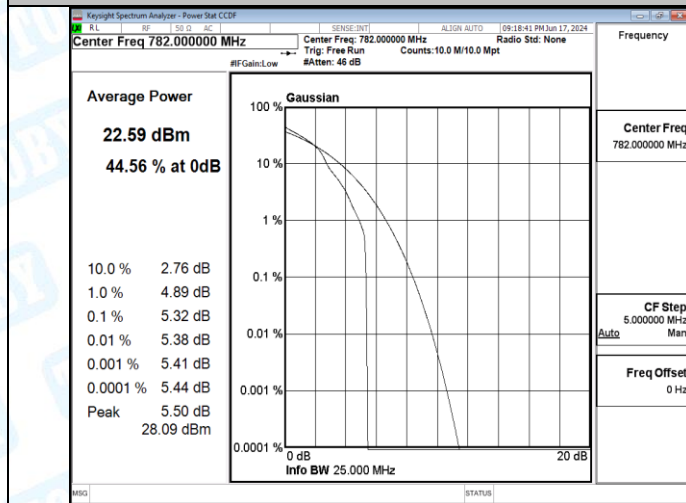
Test Graphs





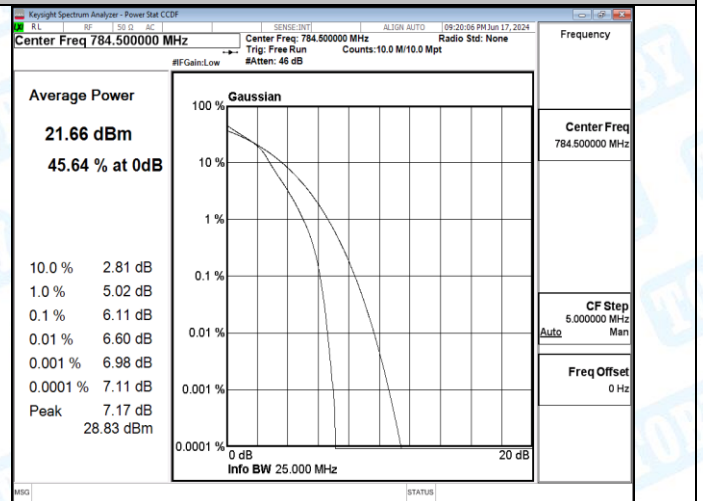
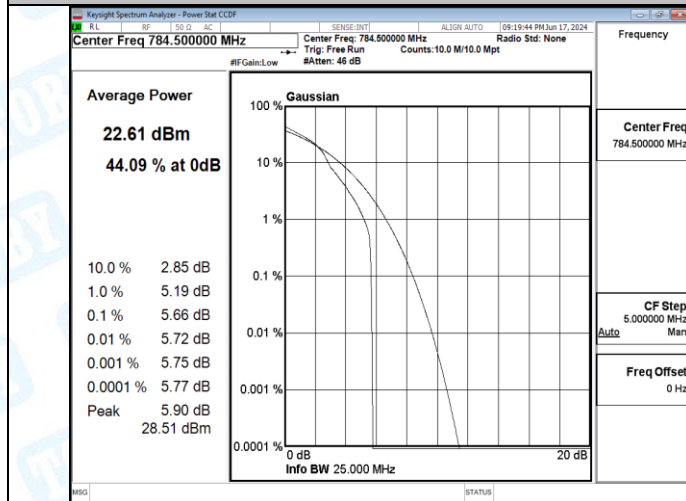
Band13-5MHz-16QAM-23230-1RB#0-PASS

Band13-5MHz-16QAM-23230-25RB#0-PASS



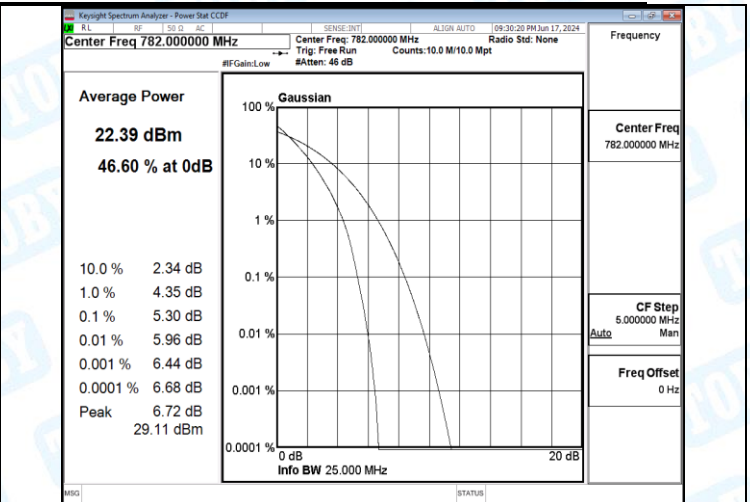
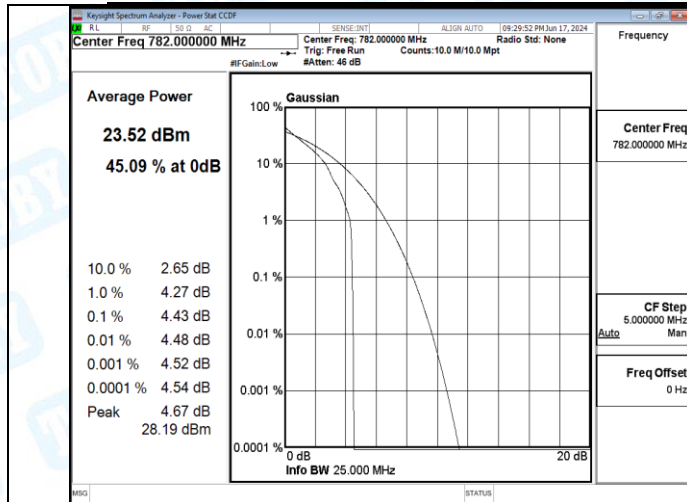
Band13-5MHz-16QAM-23255-1RB#0-PASS

Band13-5MHz-16QAM-23255-25RB#0-PASS



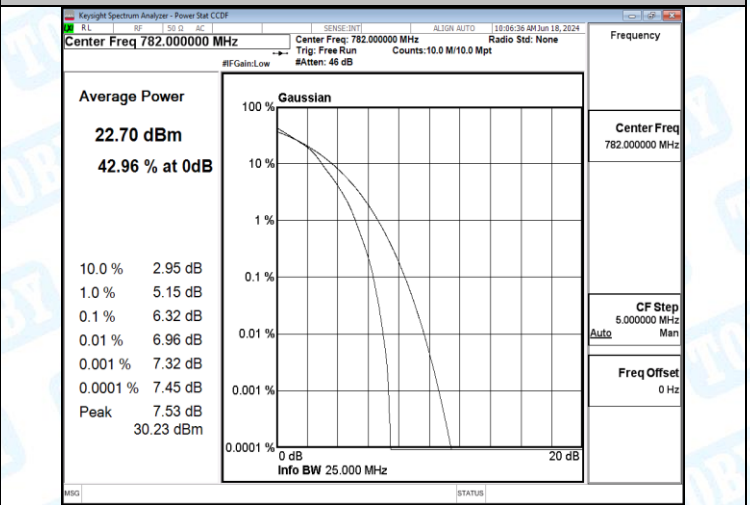
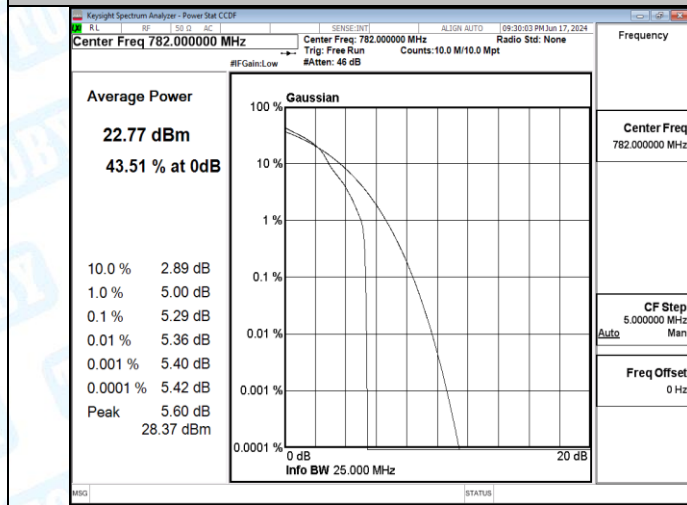
Band13-10MHz-QPSK-23230-1RB#0-PASS

Band13-10MHz-QPSK-23230-50RB#0-PASS



Band13-10MHz-16QAM-23230-1RB#0-PASS

Band13-10MHz-16QAM-23230-27RB#0-PASS

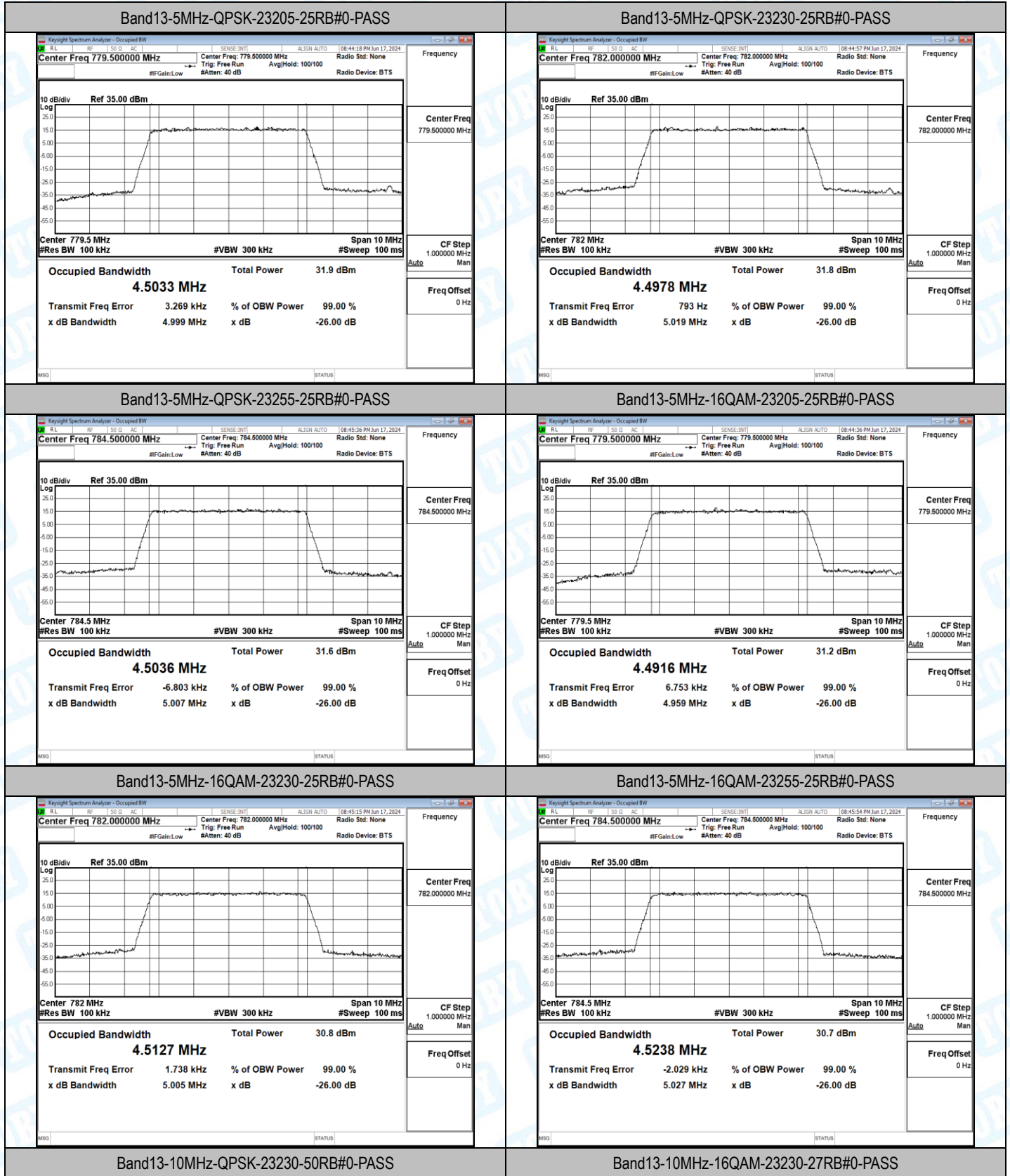


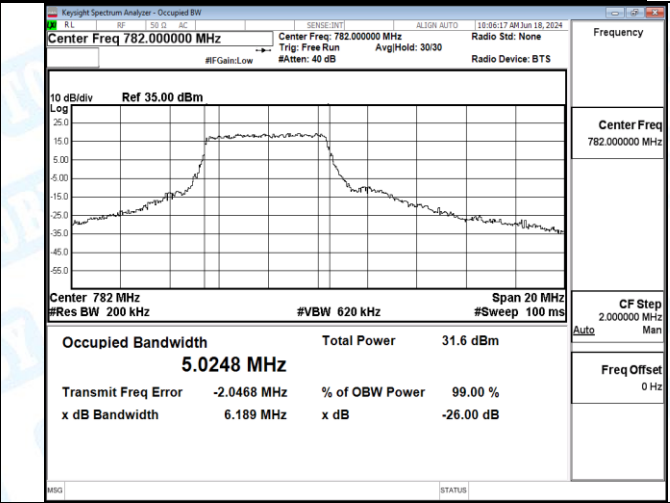
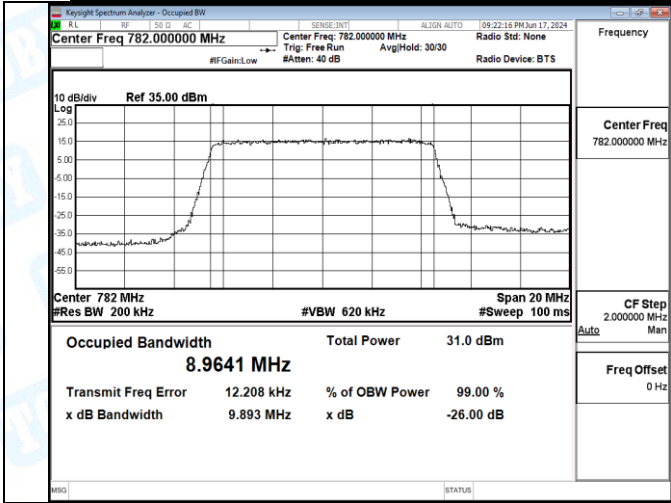
3: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5033	4.999	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4978	5.019	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5036	5.007	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4916	4.959	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5127	5.005	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5238	5.027	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9641	9.893	PASS
Band13	10MHz	16QAM	23230	27RB#0	5.0248	6.189	PASS

Test Graphs



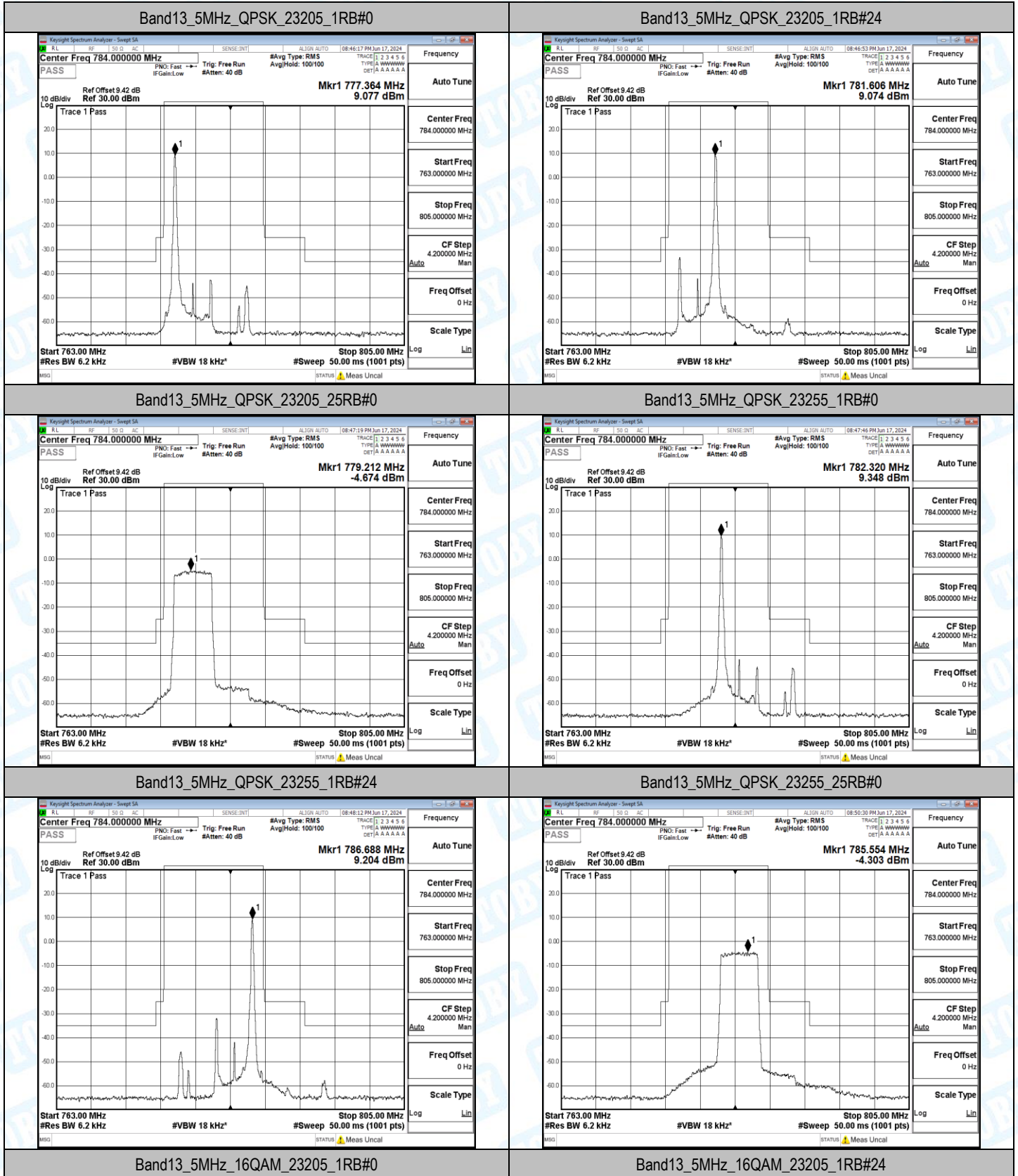


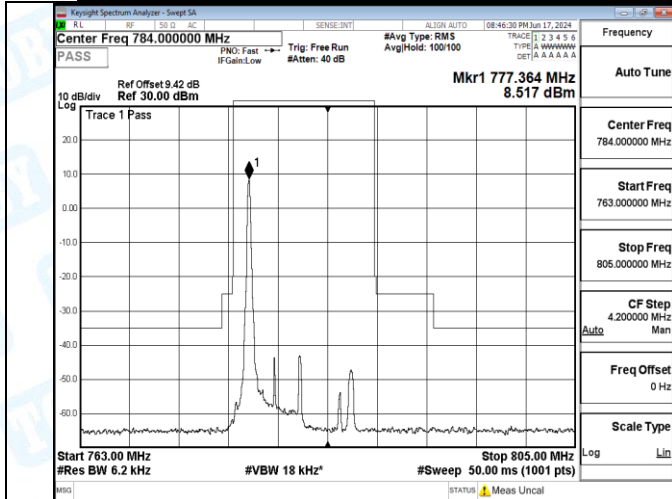
4: Band Edge

Test Result

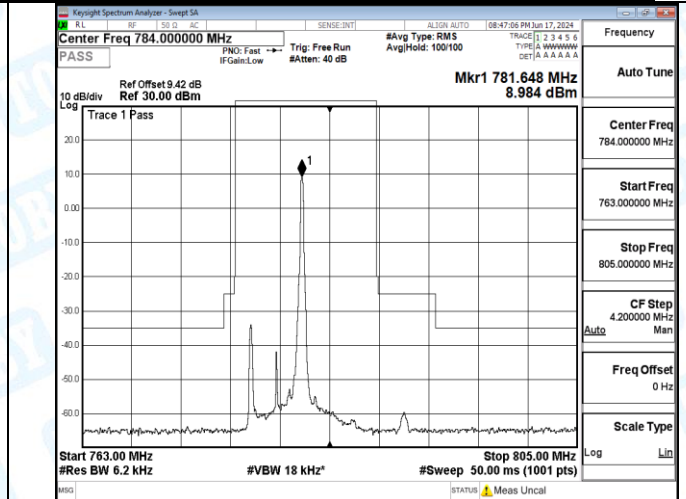
Band	Bandwidth	Modulation	Channel	RB Configuration	Level_dBm	Margin	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-64.09	29.09	PASS
Band13	5MHz	QPSK	23205	1RB#24	-63.75	28.75	PASS
Band13	5MHz	QPSK	23205	25RB#0	-59.01	24.01	PASS
Band13	5MHz	QPSK	23255	1RB#0	-45.42	20.32	PASS
Band13	5MHz	QPSK	23255	1RB#24	-57.85	22.85	PASS
Band13	5MHz	QPSK	23255	25RB#0	-59.73	24.73	PASS
Band13	5MHz	16QAM	23205	1RB#0	-63.64	28.64	PASS
Band13	5MHz	16QAM	23205	1RB#24	-63.71	28.71	PASS
Band13	5MHz	16QAM	23205	25RB#0	-60.49	25.49	PASS
Band13	5MHz	16QAM	23255	1RB#0	-46.77	21.67	PASS
Band13	5MHz	16QAM	23255	1RB#24	-59.03	24.03	PASS
Band13	5MHz	16QAM	23255	25RB#0	-60.21	25.21	PASS
Band13	10MHz	QPSK	23230	1RB#0	-56.20	21.20	PASS
Band13	10MHz	QPSK	23230	1RB#49	-61.43	26.43	PASS
Band13	10MHz	QPSK	23230	50RB#0	-56.69	21.69	PASS
Band13	10MHz	16QAM	23230	1RB#0	-56.63	21.63	PASS
Band13	10MHz	16QAM	23230	1RB#49	-61.18	26.18	PASS

Test Graphs

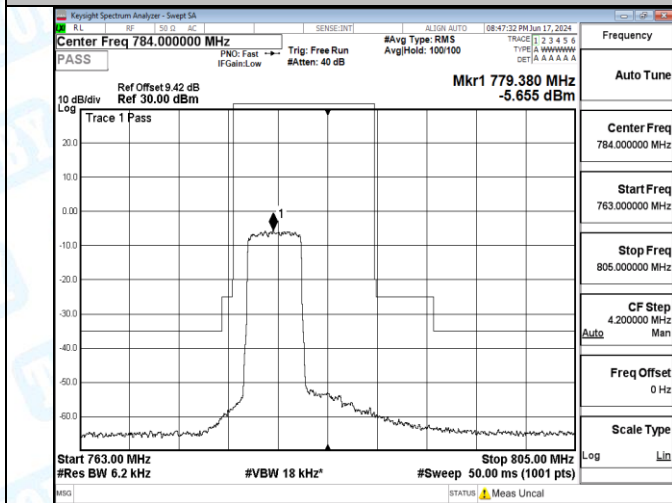




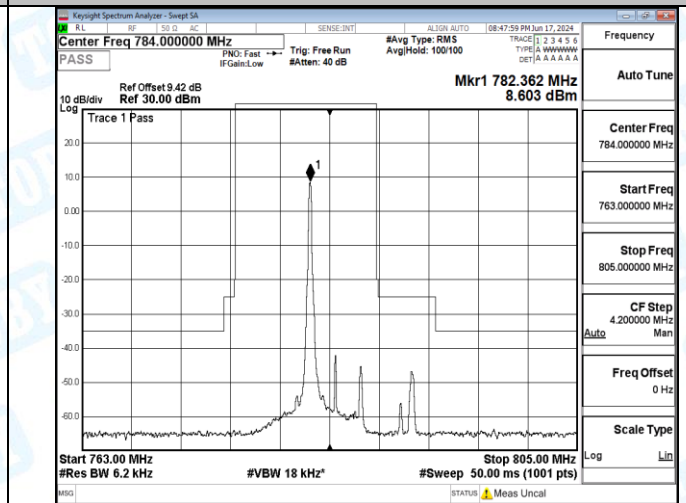
Band13_5MHz_16QAM_23205_25RB#0



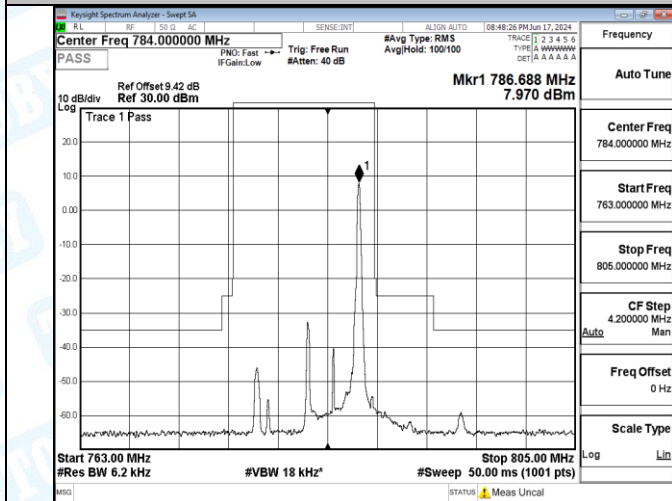
Band13_5MHz_16QAM_23255_1RB#0



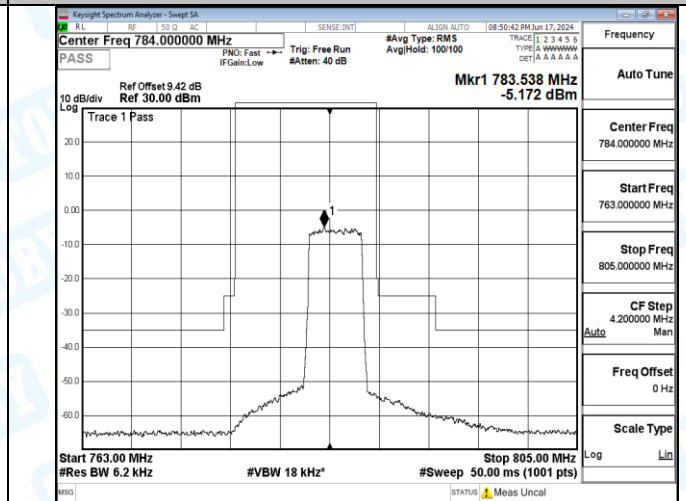
Band13_5MHz_16QAM_23255_1RB#24



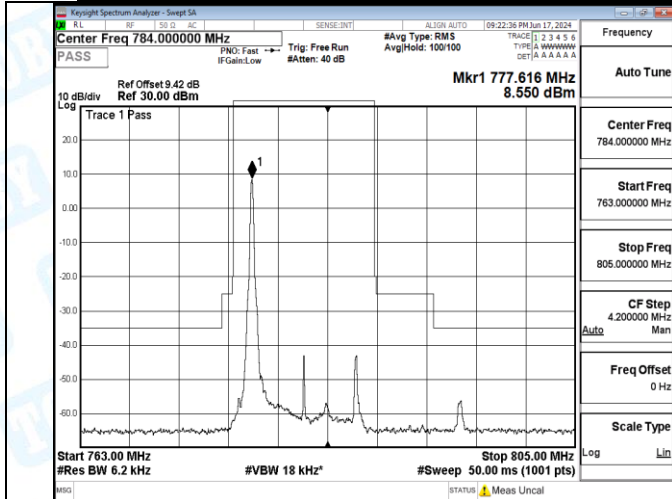
Band13_5MHz_16QAM_23255_25RB#0



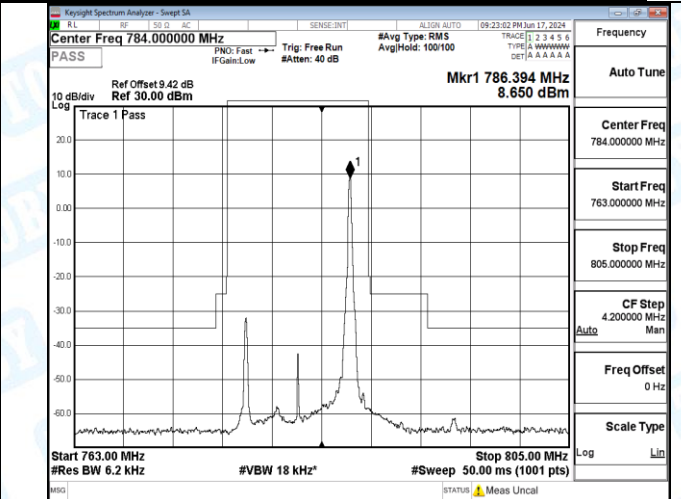
Band13_10MHz_QPSK_23230_1RB#0



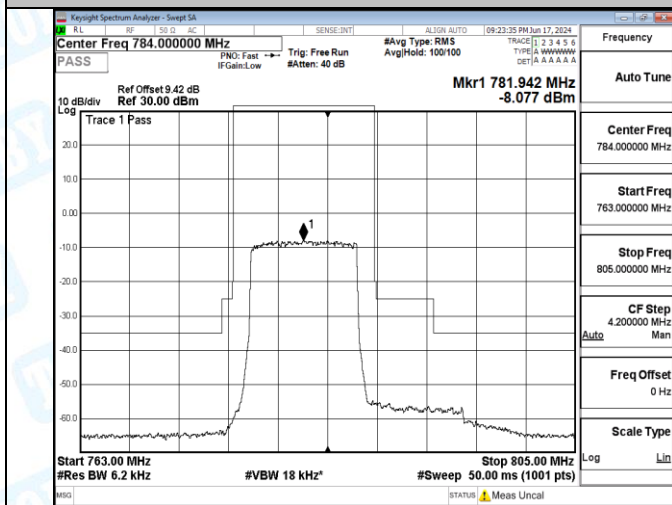
Band13_10MHz_QPSK_23230_1RB#49



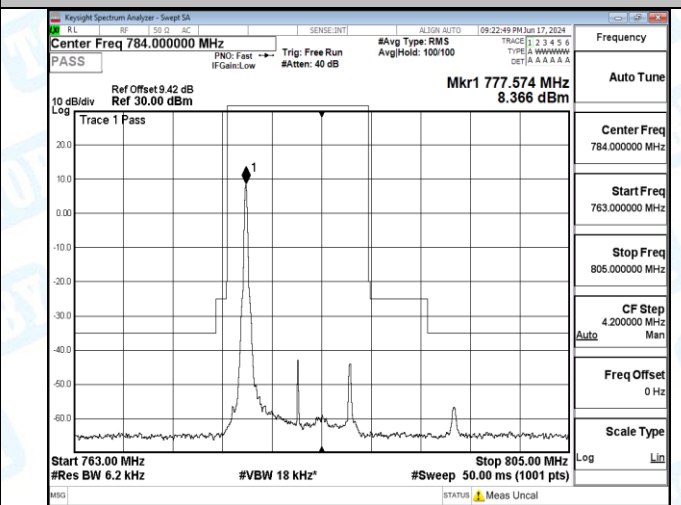
Band13_10MHz_QPSK_23230_50RB#0



Band13_10MHz_16QAM_23230_1RB#0



Band13_10MHz_16QAM_23230_1RB#49



5: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Frequency	Value(dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	0.01	-63.78	-33.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	0.15	-49.19	-23.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	792.91	-58.38	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	2604.40	-43.02	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	7301.50	-34.81	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.009~0.15	0.01	-62.15	-33.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.15~30	0.15	-48.87	-23.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	30~1000	797.27	-59.36	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	1000~3000	2653.00	-43.16	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	3000~10000	7414.90	-35.07	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.009~0.15	0.01	-61.49	-33.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.15~30	0.15	-51.28	-23.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	30~1000	792.42	-53.10	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	1000~3000	2776.50	-43.07	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	3000~10000	7361.18	-35.31	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	0.01	-60.32	-33.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	0.15	-49.03	-23.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	947.62	-59.44	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	2660.50	-43.07	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	7333.00	-35.11	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.009~0.15	0.01	-64.93	-33.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.15~30	0.15	-49.59	-23.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	30~1000	902.03	-59.67	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	1000~3000	2653.85	-42.98	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	3000~10000	7347.88	-35.07	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.009~0.15	0.01	-62.25	-33.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.15~30	0.15	-49.59	-23.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	30~1000	795.33	-52.59	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	1000~3000	2770.30	-42.74	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	3000~10000	7419.98	-35.31	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	0.01	-63.63	-33.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	0.15	-48.67	-23.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	797.76	-59.38	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	2650.05	-43.25	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	7350.15	-35.35	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.009~0.15	0.01	-61.42	-33.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.15~30	0.15	-49.07	-23.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	30~1000	891.36	-59.68	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	1000~3000	2670.95	-43.11	-13.0	PASS

Band13	5MHz	QPSK	23255	1RB#24	3000~10000	7350.15	-35.05	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.009~0.15	0.01	-61.20	-33.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.15~30	0.15	-49.73	-23.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	30~1000	797.76	-53.66	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	1000~3000	2635.40	-43.28	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	3000~10000	7353.13	-35.51	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	0.01	-63.32	-33.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	0.18	-49.90	-23.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	792.91	-59.25	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	2616.10	-43.08	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	7367.48	-35.30	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.009~0.15	0.01	-62.59	-33.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.15~30	0.15	-49.46	-23.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	30~1000	904.94	-59.81	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	1000~3000	2652.25	-43.19	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	3000~10000	7387.43	-35.11	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.009~0.15	0.01	-64.41	-33.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.15~30	0.15	-50.29	-23.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	30~1000	792.42	-53.97	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	1000~3000	2665.05	-42.74	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	3000~10000	7343.15	-35.16	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	0.01	-62.83	-33.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	0.15	-47.17	-23.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	795.33	-59.07	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	2786.00	-43.13	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	7379.55	-35.32	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.009~0.15	0.01	-61.38	-33.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.15~30	0.15	-48.89	-23.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	30~1000	797.27	-59.19	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	1000~3000	2784.60	-42.81	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	3000~10000	5744.00	-34.85	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.009~0.15	0.01	-62.43	-33.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.15~30	0.15	-50.95	-23.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	30~1000	795.33	-55.08	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	1000~3000	2793.05	-42.79	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	3000~10000	7383.93	-35.17	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	0.01	-64.98	-33.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	0.15	-49.14	-23.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	922.89	-59.24	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	2646.90	-43.09	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	7315.68	-34.97	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.009~0.15	0.01	-62.96	-33.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.15~30	0.15	-46.18	-23.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	30~1000	799.70	-59.64	-13.0	PASS