Appendix M: Test Data for E-UTRA Band 13

Product Name: Tablet

Test Model: HIP-T66

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jose Zhu
Supervised by:	Nick Peng

M.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.19	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.60	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.21	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.55	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.21	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.59	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.00	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.87	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.01	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.86	PASS
Band13	5MHz	QPSK	23205	12RB#13	23.13	PASS
Band13	5MHz	16QAM	23205	12RB#13	22.06	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.05	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.19	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.12	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.12	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.22	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.19	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.11	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.13	PASS
Band13	5MHz	QPSK	23230	12RB#0	23.12	PASS
Band13	5MHz	16QAM	23230	12RB#0	22.21	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.11	PASS
Band13	5MHz	16QAM	23230	12RB#6	22.19	PASS
Band13	5MHz	QPSK	23230	12RB#13	23.16	PASS
Band13	5MHz	16QAM	23230	12RB#13	22.22	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.03	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.99	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.22	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.73	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.25	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.79	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.25	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.80	PASS
Band13	5MHz	QPSK	23255	12RB#0	23.07	PASS

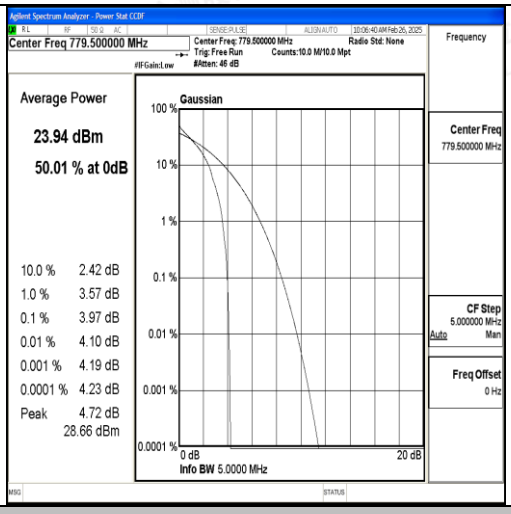
Band13	5MHz	16QAM	23255	12RB#0	22.01	PASS
Band13	5MHz	QPSK	23255	12RB#6	23.20	PASS
Band13	5MHz	16QAM	23255	12RB#6	22.00	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.28	PASS
Band13	5MHz	16QAM	23255	12RB#13	22.14	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.14	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.22	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.98	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.76	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.14	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.82	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.19	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.90	PASS
Band13	10MHz	QPSK	23230	25RB#0	23.06	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.03	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.10	PASS
Band13	10MHz	16QAM	23230	25RB#12	22.14	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.05	PASS
Band13	10MHz	16QAM	23230	25RB#25	22.13	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.19	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.13	PASS

M.2 Peak-to-Average Ratio(CCDF)

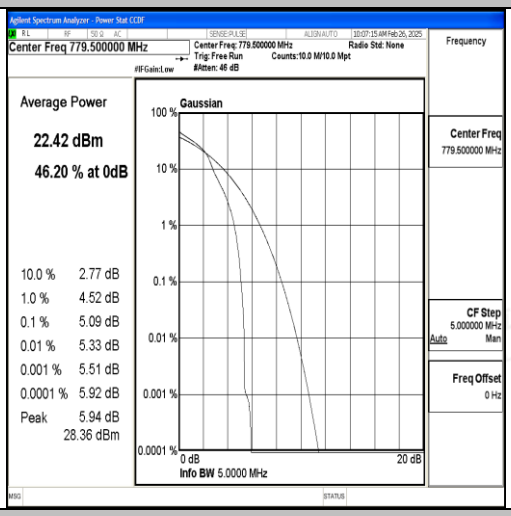
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.97	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.09	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.48	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.12	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.81	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.62	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.18	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.71	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.60	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.24	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.98	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.96	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.89	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.44	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.14	13	PASS

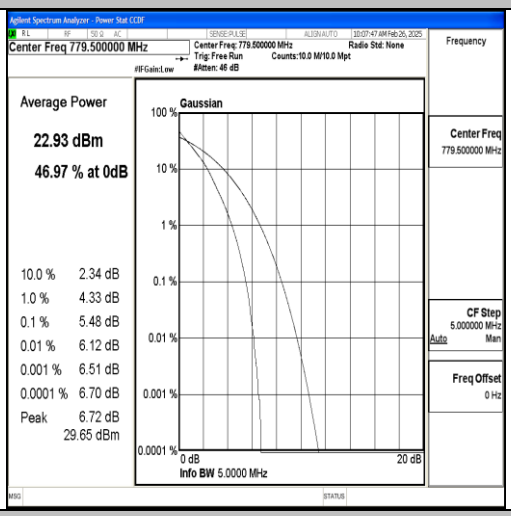
Test Graphs



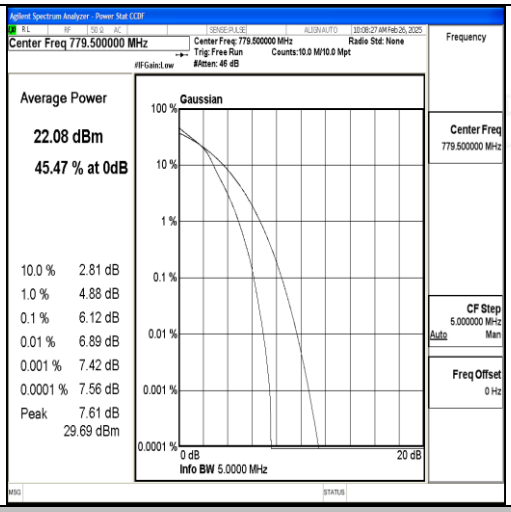
Band13-5MHz-QPSK-23205-1RB#0-PASS



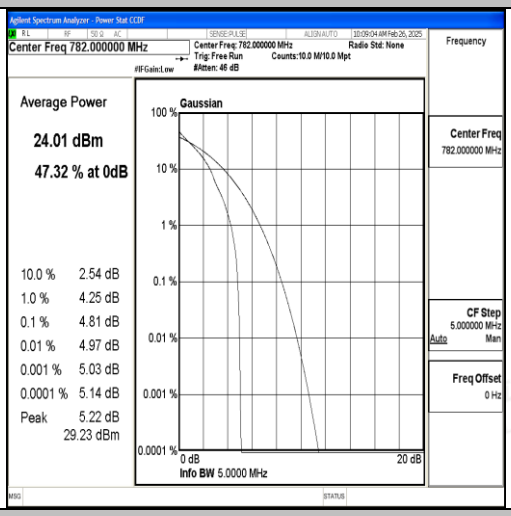
Band13-5MHz-16QAM-23205-1RB#0-PASS



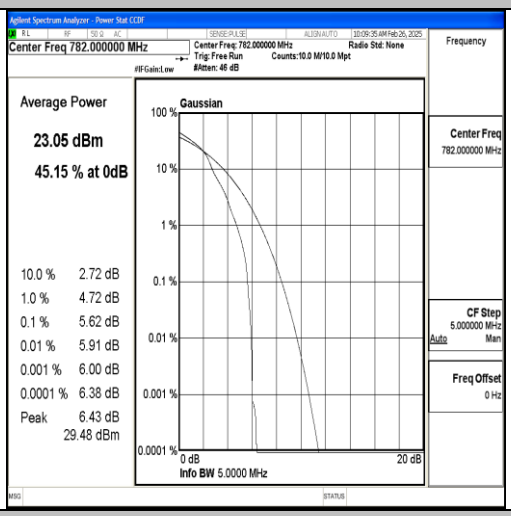
Band13-5MHz-QPSK-23205-25RB#0-PASS



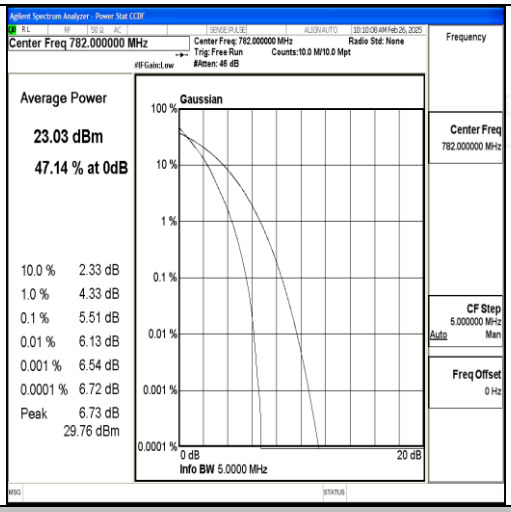
Band13-5MHz-16QAM-23205-25RB#0-PASS



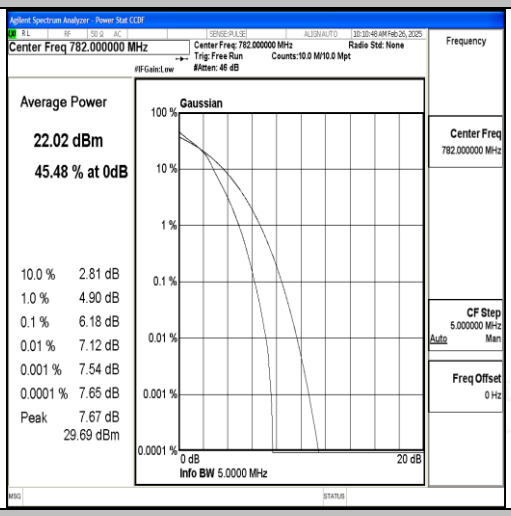
Band13-5MHz-QPSK-23230-1RB#0-PASS



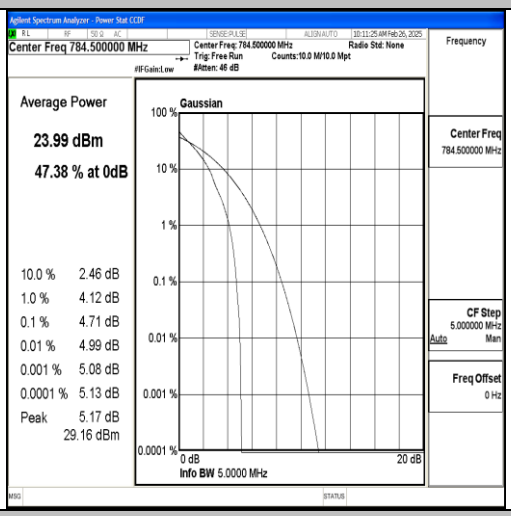
Band13-5MHz-16QAM-23230-1RB#0-PASS



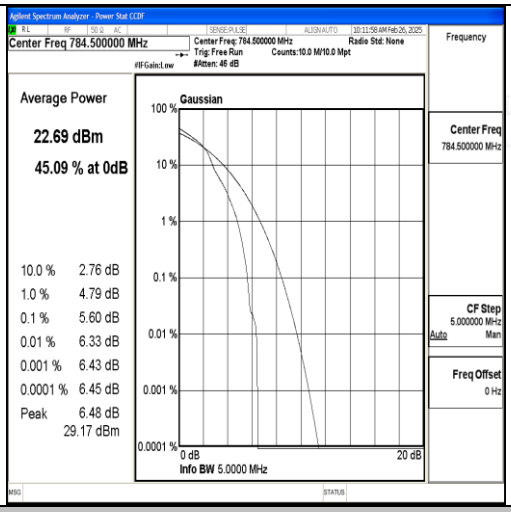
Band13-5MHz-QPSK-23230-25RB#0-PASS



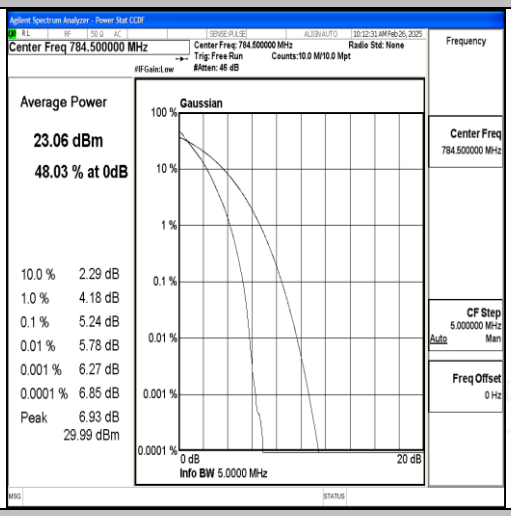
Band13-5MHz-16QAM-23230-25RB#0-PASS



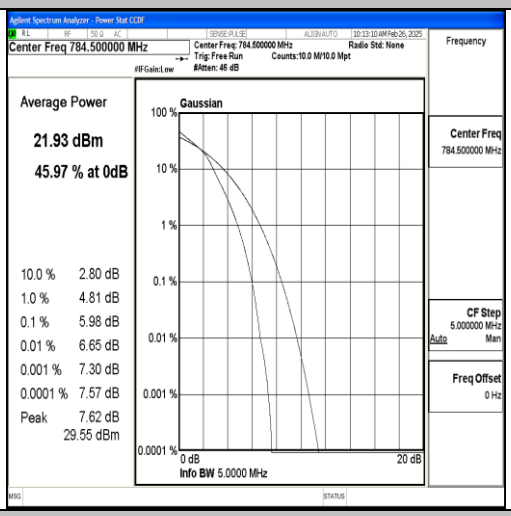
Band13-5MHz-QPSK-23255-1RB#0-PASS



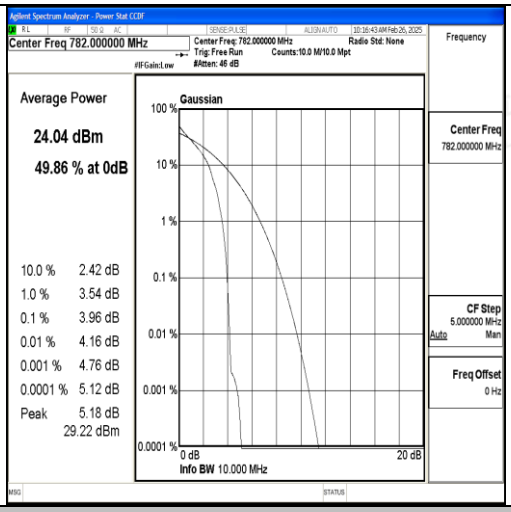
Band13-5MHz-16QAM-23255-1RB#0-PASS



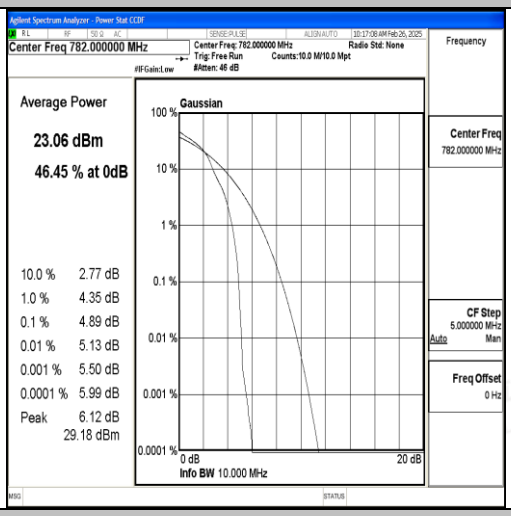
Band13-5MHz-QPSK-23255-25RB#0-PASS



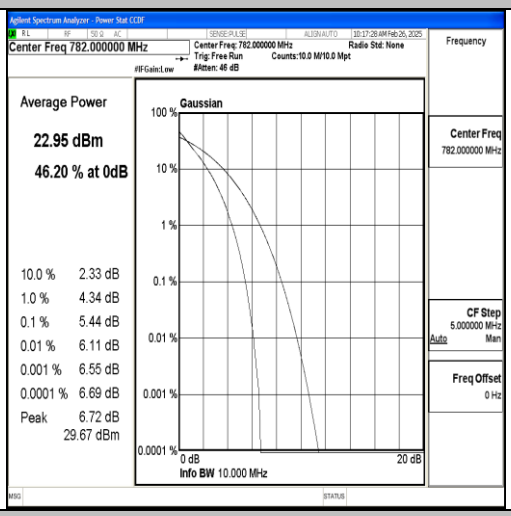
Band13-5MHz-16QAM-23255-25RB#0-PASS



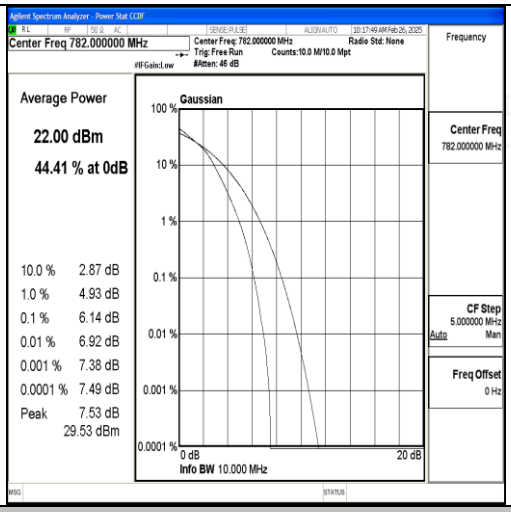
Band13-10MHz-QPSK-23230-1RB#0-PASS



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



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



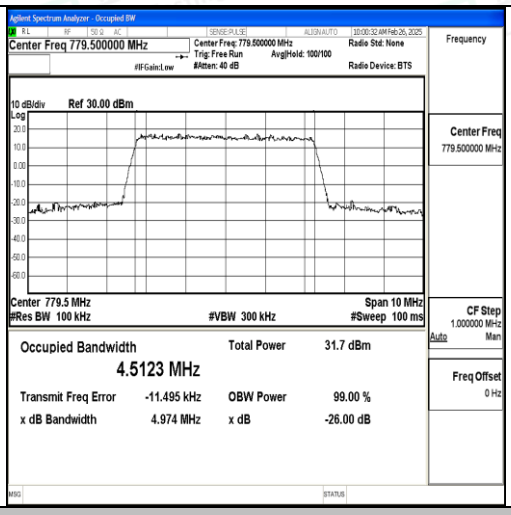
Band13-10MHz-16QAM-23230-50RB#0-PASS

M.3 26dB Bandwidth and Occupied Bandwidth

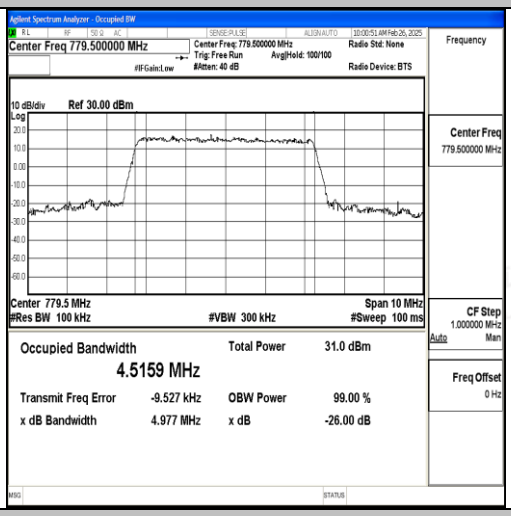
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5123	4.974	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5159	4.977	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5078	5.004	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5142	4.974	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5039	4.984	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5158	4.999	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0073	9.901	PASS
Band13	10MHz	16QAM	23230	50RB#0	9.0189	9.935	PASS

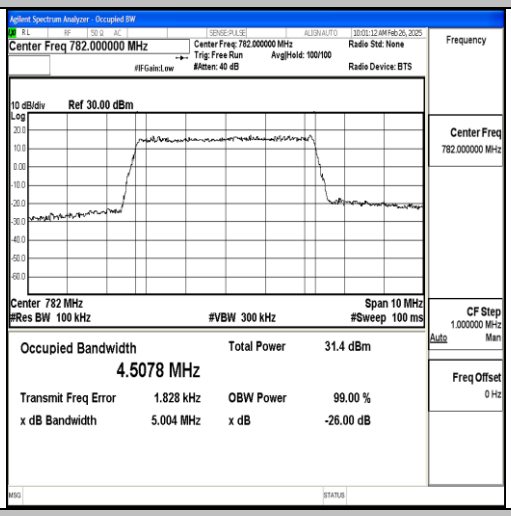
Test Graphs



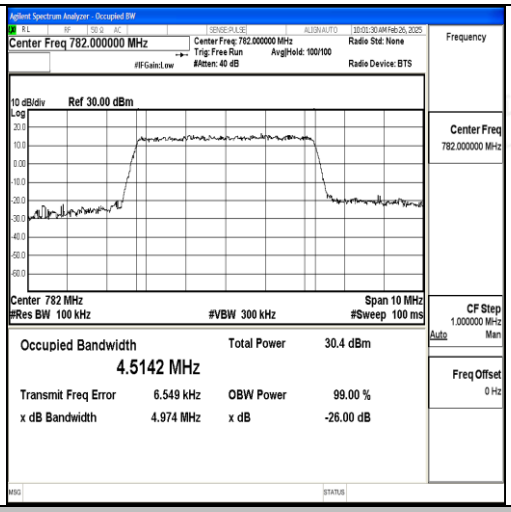
Band13-5MHz-QPSK-23205-25RB#0-PASS



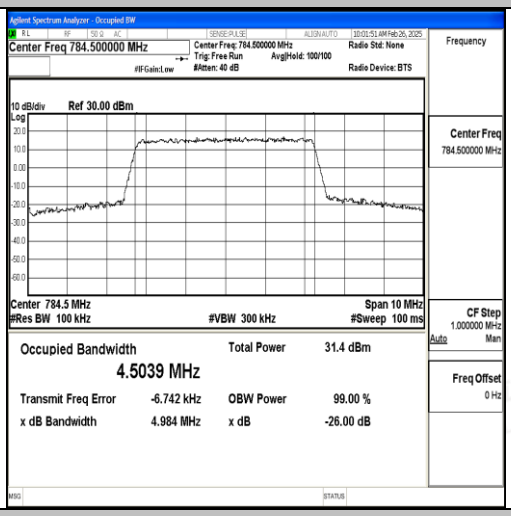
Band13-5MHz-16QAM-23205-25RB#0-PASS



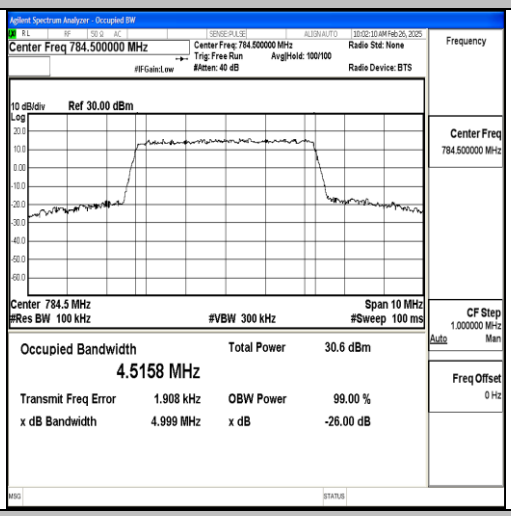
Band13-5MHz-QPSK-23230-25RB#0-PASS



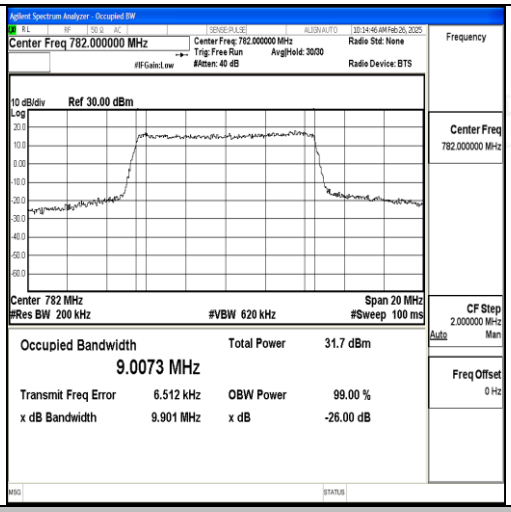
Band13-5MHz-16QAM-23230-25RB#0-PASS



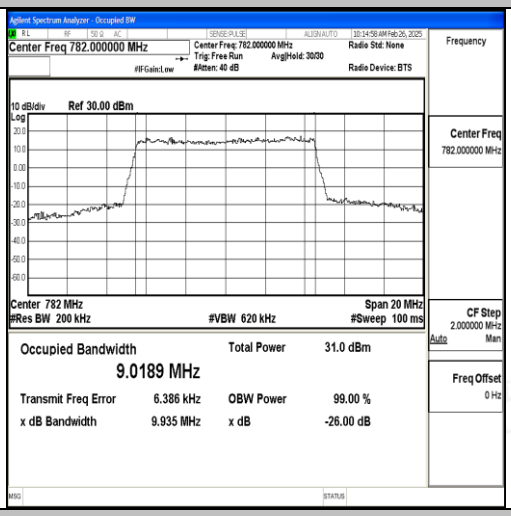
Band13-5MHz-QPSK-23255-25RB#0-PASS



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



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



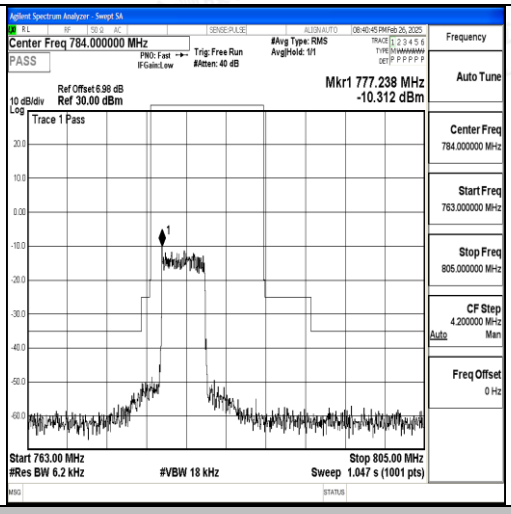
Band13-10MHz-16QAM-23230-50RB#0-PASS

M.4 Band Edge

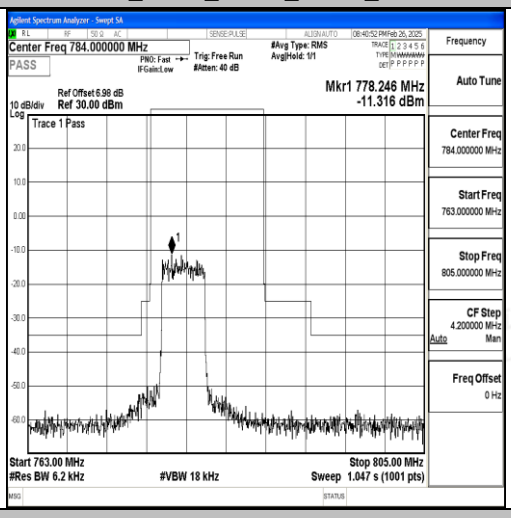
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	774.97	-52.09	PASS
Band13	5MHz	16QAM	23205	25RB#0	774.76	-52.46	PASS
Band13	5MHz	QPSK	23255	25RB#0	794.25	-56.95	PASS
Band13	5MHz	16QAM	23255	25RB#0	801.43	-56.43	PASS
Band13	10MHz	QPSK	23230	50RB#0	772.53	-51.30	PASS
Band13	10MHz	16QAM	23230	50RB#0	774.80	-55.72	PASS

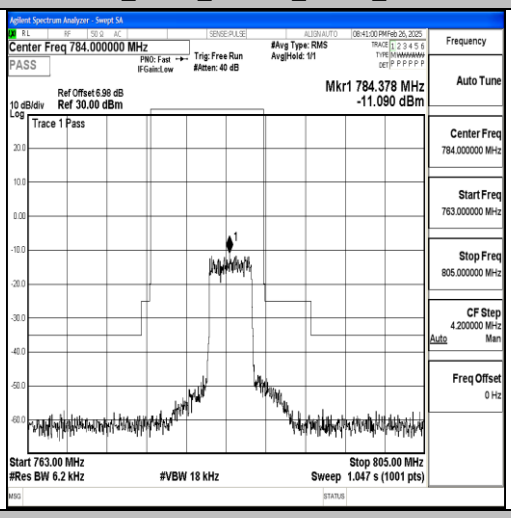
Test Graphs



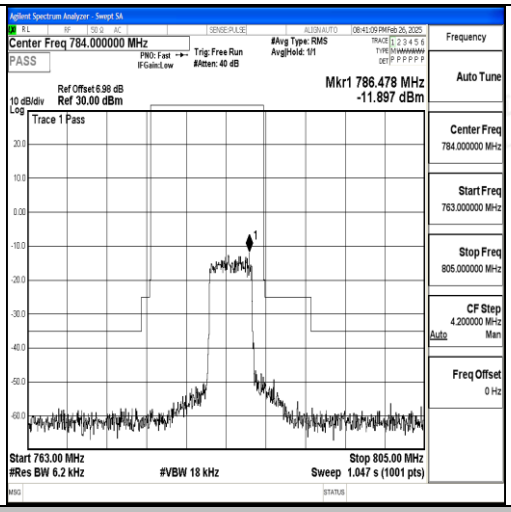
Band13_5MHz_QPSK_23205_25RB#0



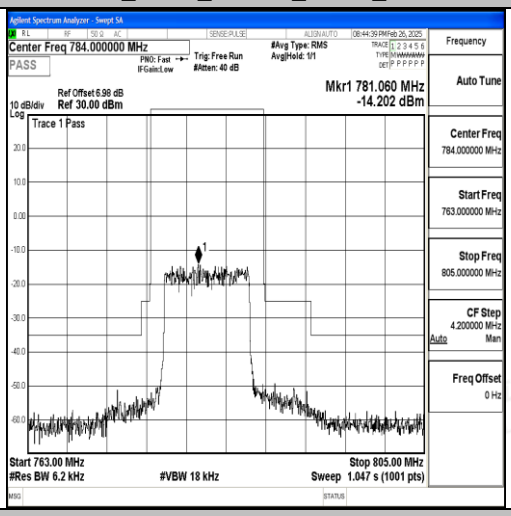
Band13_5MHz_16QAM_23205_25RB#0



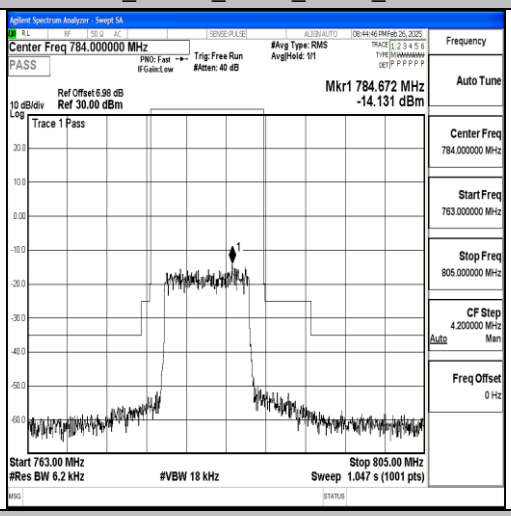
Band13_5MHz_QPSK_23255_25RB#0



Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_50RB#0



Band13_10MHz_16QAM_23230_50RB#0

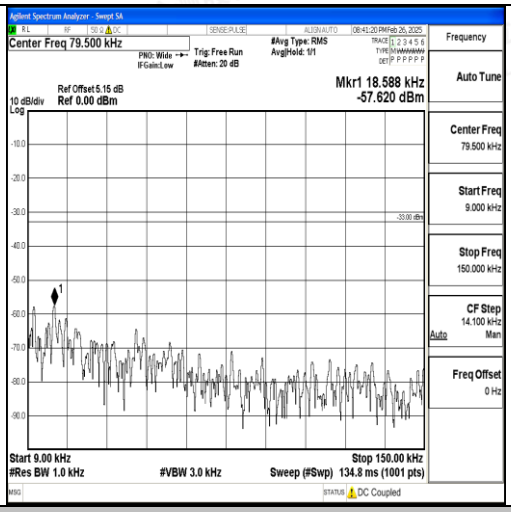
M.5 Conducted Spurious Emission

Test Result

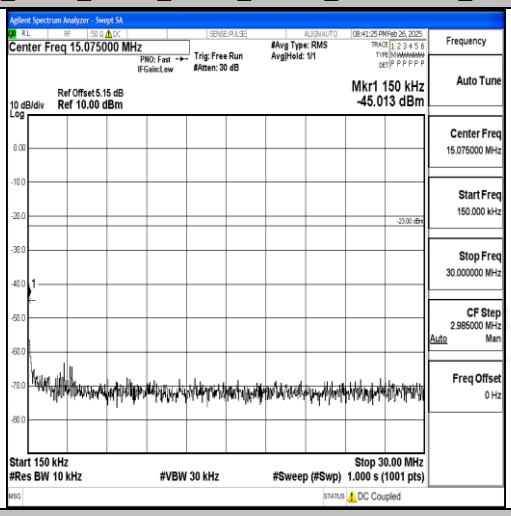
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-57.62	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-45.01	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-52.26	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-38.93	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-34.98	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-57.08	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-48.07	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-52.93	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-38.97	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-35.50	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-57.88	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-46.56	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-52.63	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-38.50	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-35.32	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-56.33	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-45.97	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-52.23	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-38.27	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-34.42	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-59.07	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-45.01	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-52.96	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-38.71	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-35.16	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-59.08	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-47.47	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-52.84	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-38.33	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-35.52	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-61.42	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-46.59	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-52.03	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-38.53	PASS

Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-35.45	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-56.67	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-45.36	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-52.94	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-38.29	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-35.47	PASS

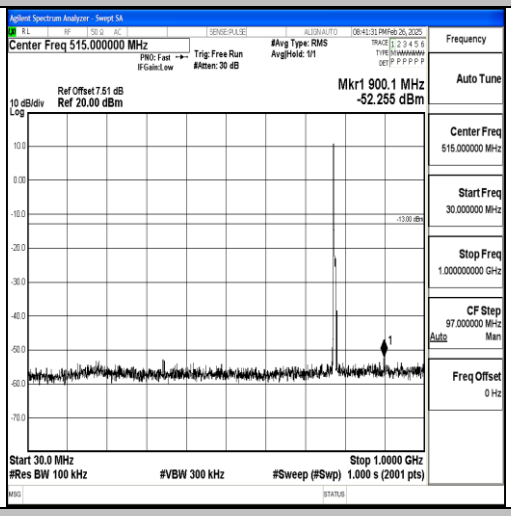
Test Graphs



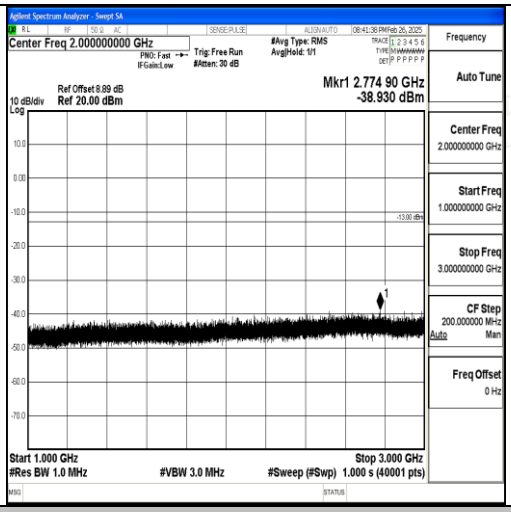
Band13_5MHz_QPSK_23205_1RB#0_0.009~0.15_0.009~0.15



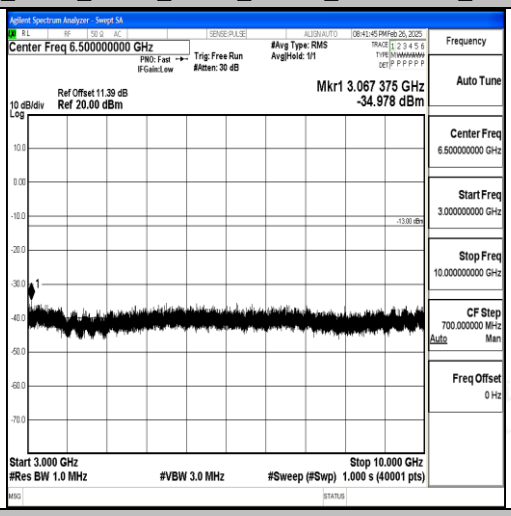
Band13_5MHz_QPSK_23205_1RB#0_0.15~30_0.15~30



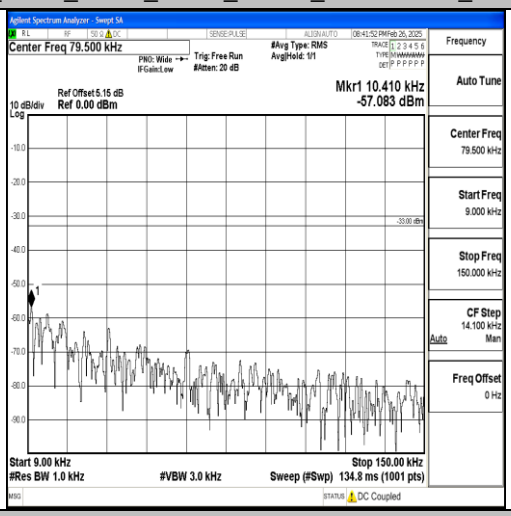
Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000



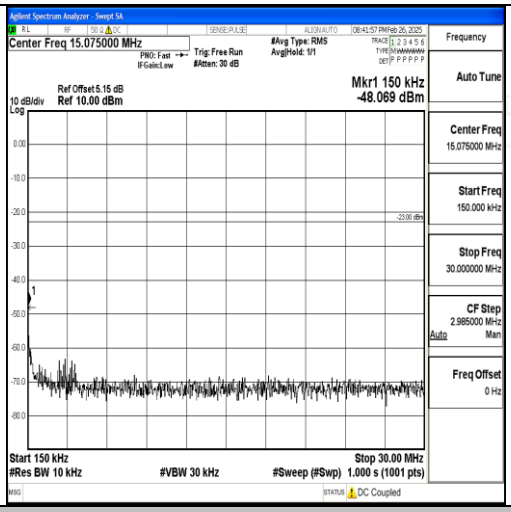
Band13_5MHz_QPSK_23205_1RB#0_1000~3000_1000~3000



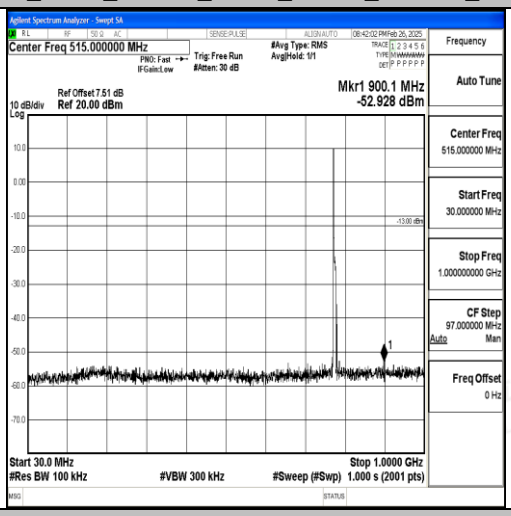
Band13_5MHz_QPSK_23205_1RB#0_3000~10000_3000~10000



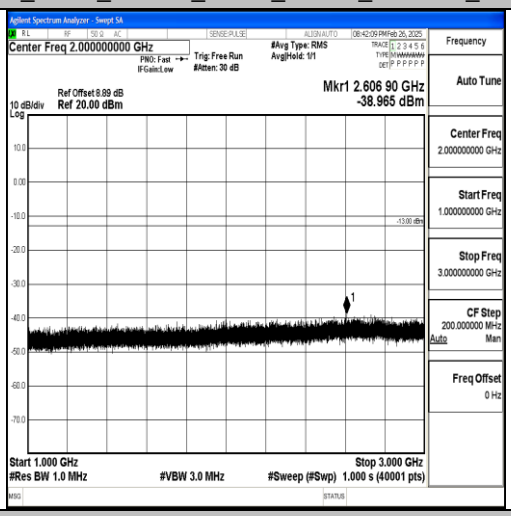
Band13_5MHz_16QAM_23205_1RB#0_0.009~0.15_0.009~0.15



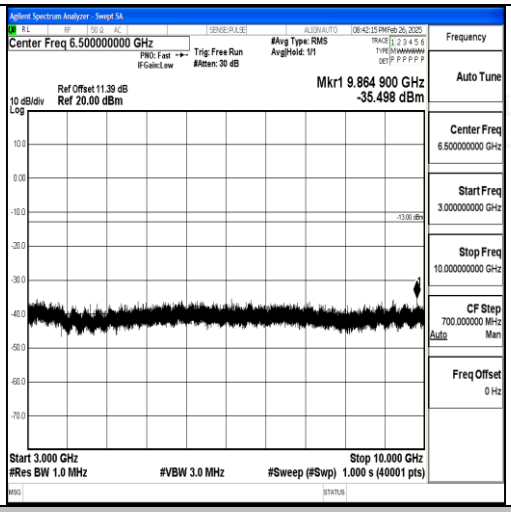
Band13_5MHz_16QAM_23205_1RB#0_0.15~30_0.15~30



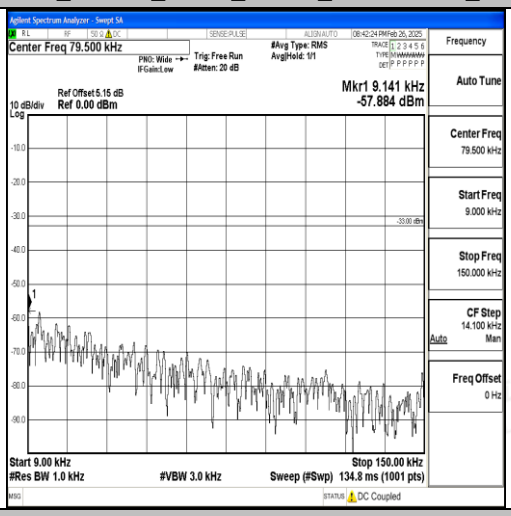
Band13_5MHz_16QAM_23205_1RB#0_30~1000_30~1000



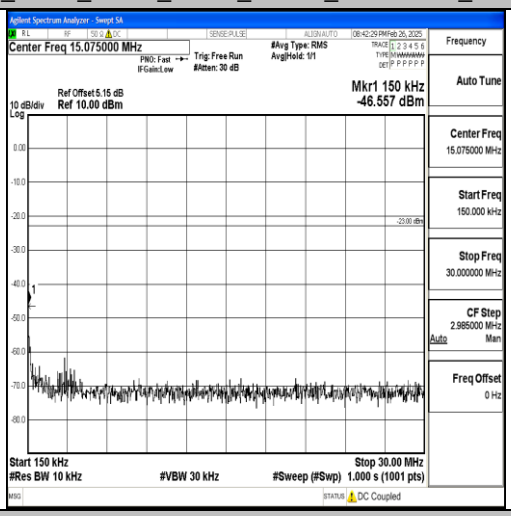
Band13_5MHz_16QAM_23205_1RB#0_1000~3000_1000~3000



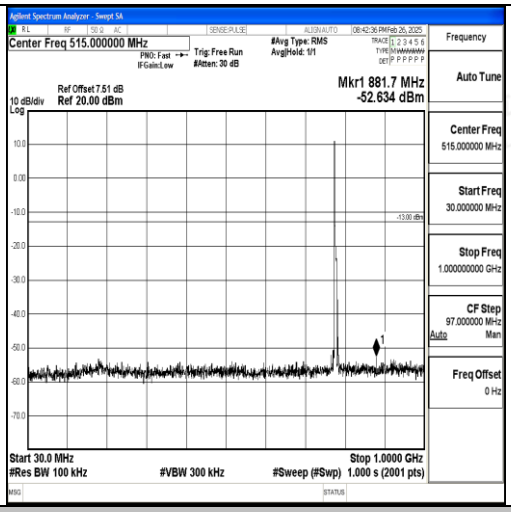
Band13_5MHz_16QAM_23205_1RB#0_3000~10000_3000~10000



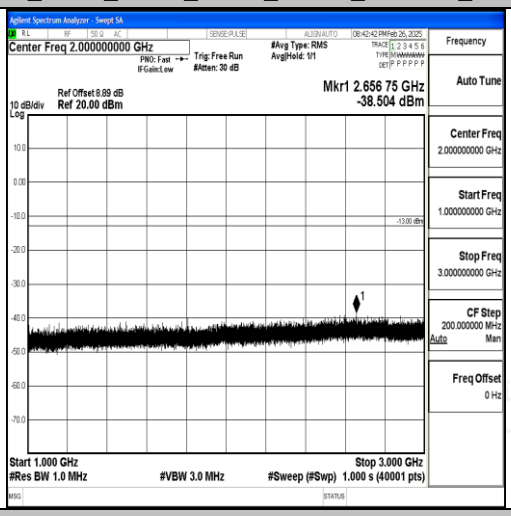
Band13_5MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15



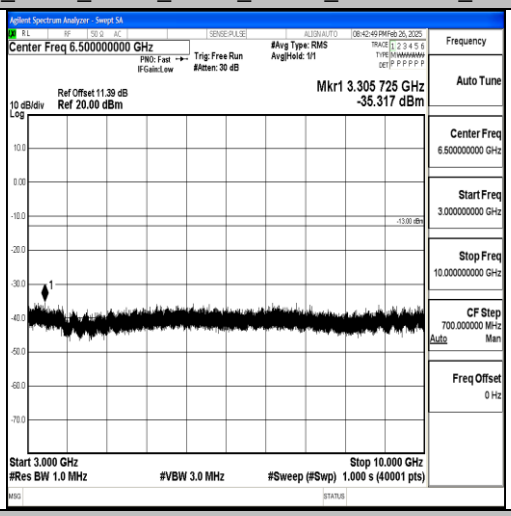
Band13_5MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



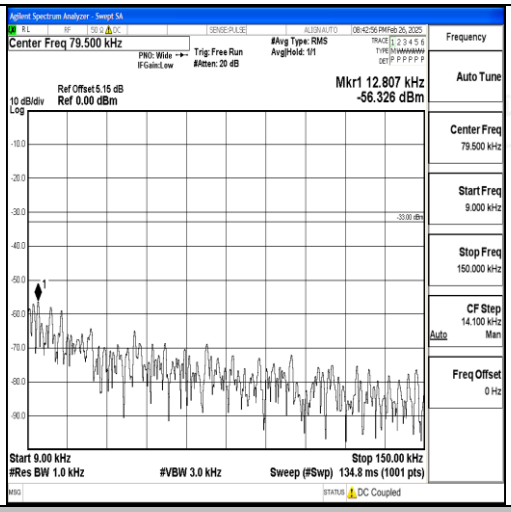
Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000



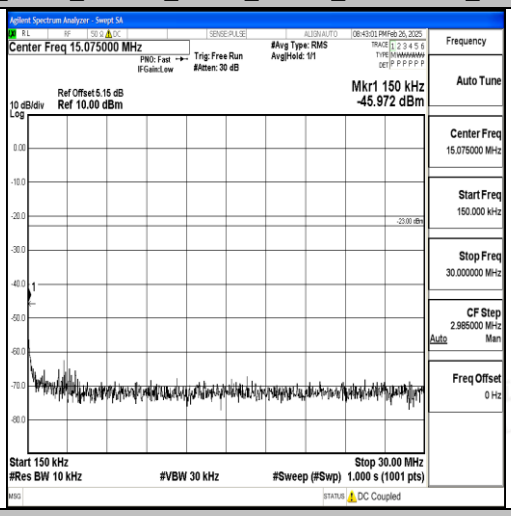
Band13_5MHz_QPSK_23230_1RB#0_1000~3000_1000~3000



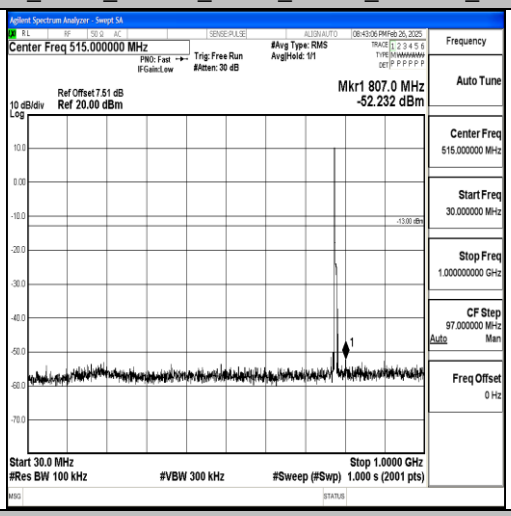
Band13_5MHz_QPSK_23230_1RB#0_3000~10000_3000~10000



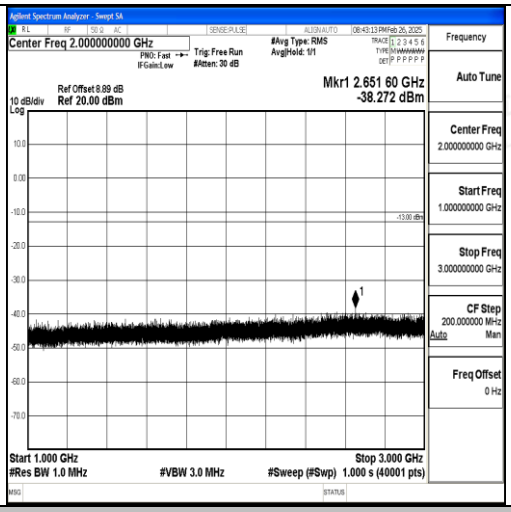
Band13_5MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15



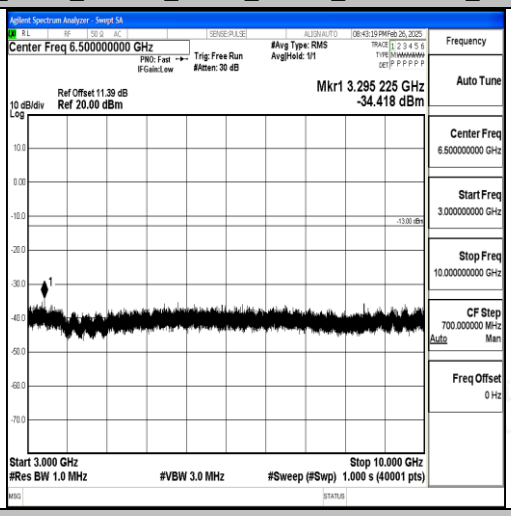
Band13_5MHz_16QAM_23230_1RB#0_0.15~30_0.15~30



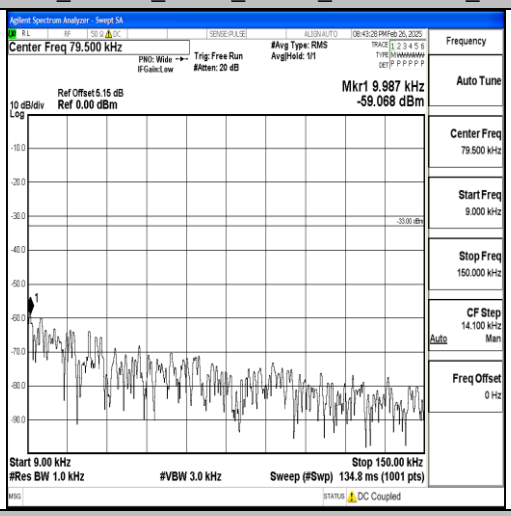
Band13_5MHz_16QAM_23230_1RB#0_30~1000_30~1000



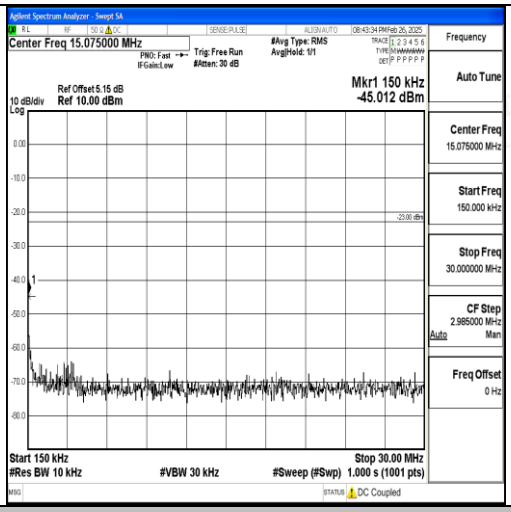
Band13_5MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



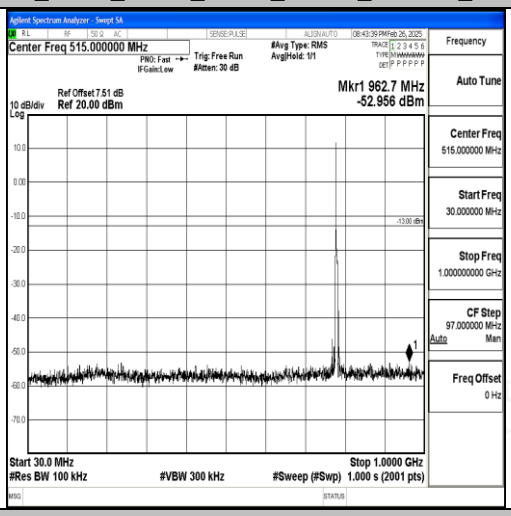
Band13_5MHz_16QAM_23230_1RB#0_3000~10000_3000~10000



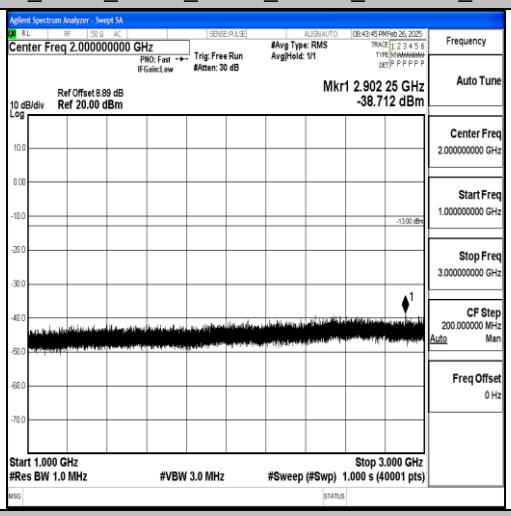
Band13_5MHz_QPSK_23255_1RB#0_0.009~0.15_0.009~0.15



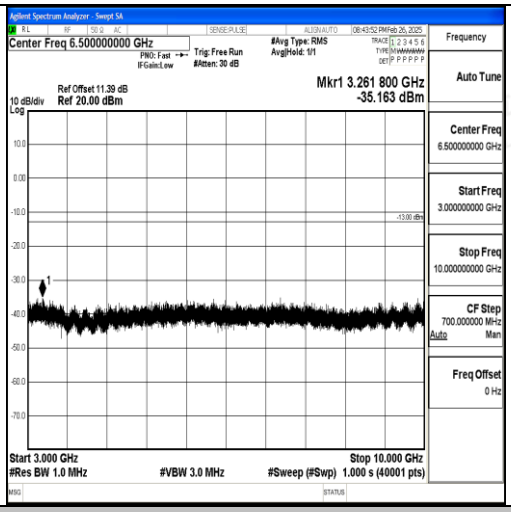
Band13_5MHz_QPSK_23255_1RB#0_0.15~30_0.15~30



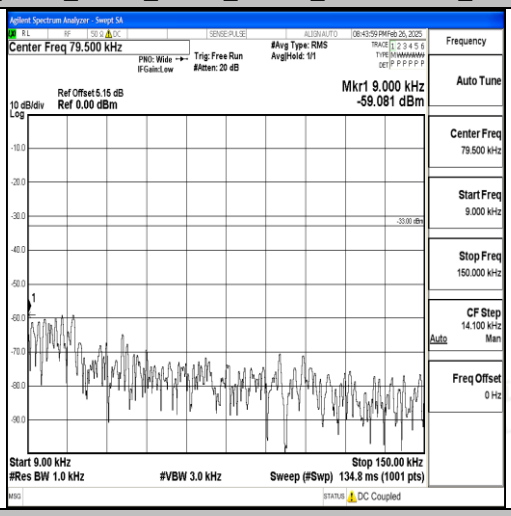
Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000



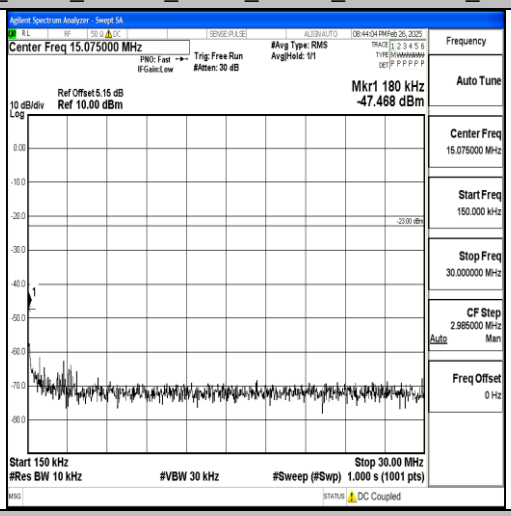
Band13_5MHz_QPSK_23255_1RB#0_1000~3000_1000~3000



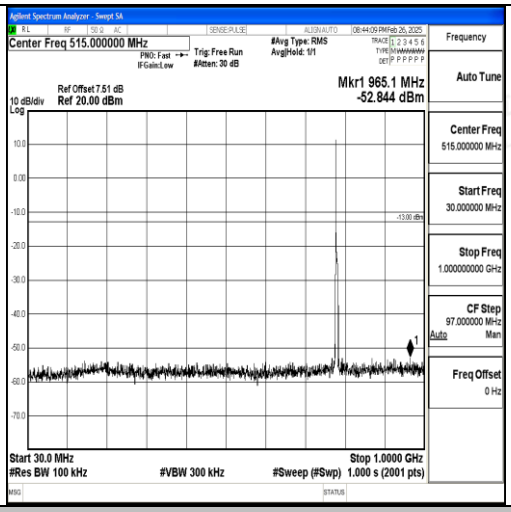
Band13_5MHz_QPSK_23255_1RB#0_3000~10000_3000~10000



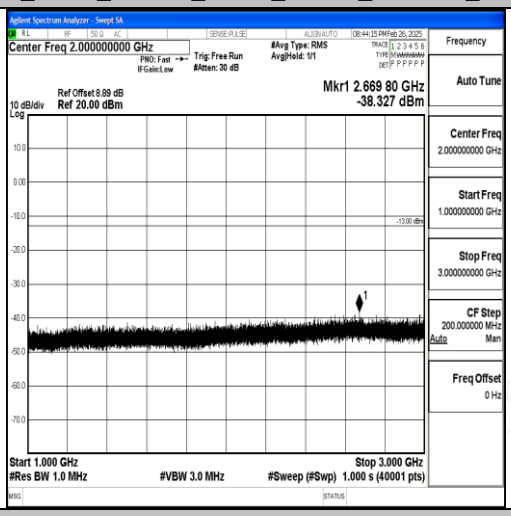
Band13_5MHz_16QAM_23255_1RB#0_0.009~0.15_0.009~0.15



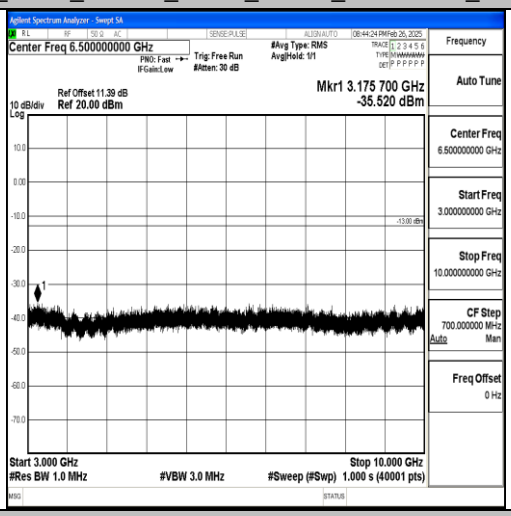
Band13_5MHz_16QAM_23255_1RB#0_0.15~30_0.15~30



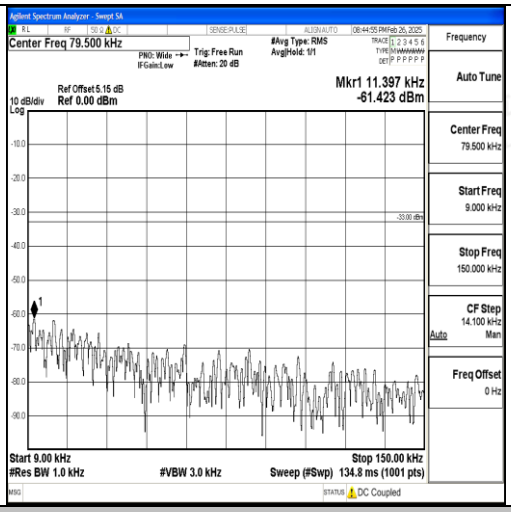
Band13_5MHz_16QAM_23255_1RB#0_30~1000_30~1000



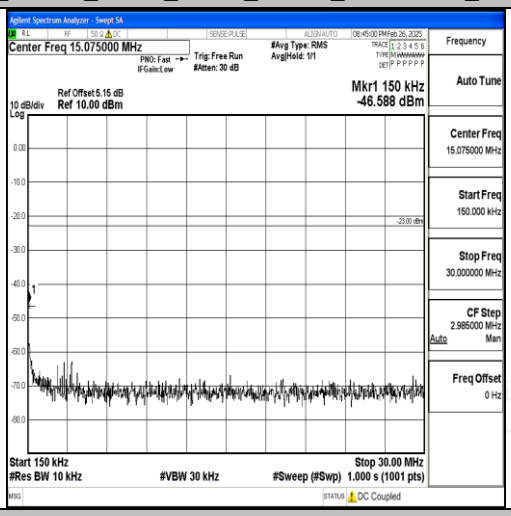
Band13_5MHz_16QAM_23255_1RB#0_1000~3000_1000~3000



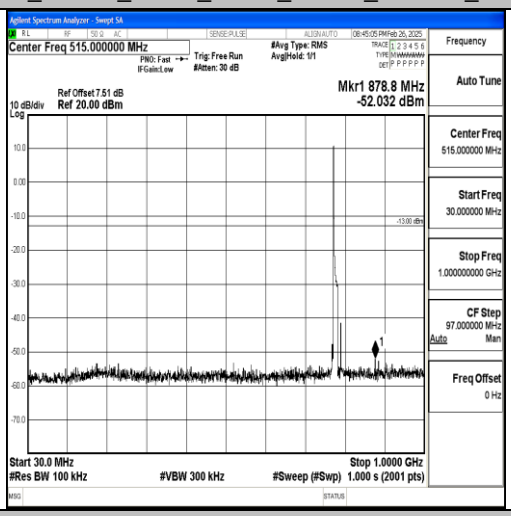
Band13_5MHz_16QAM_23255_1RB#0_3000~10000_3000~10000



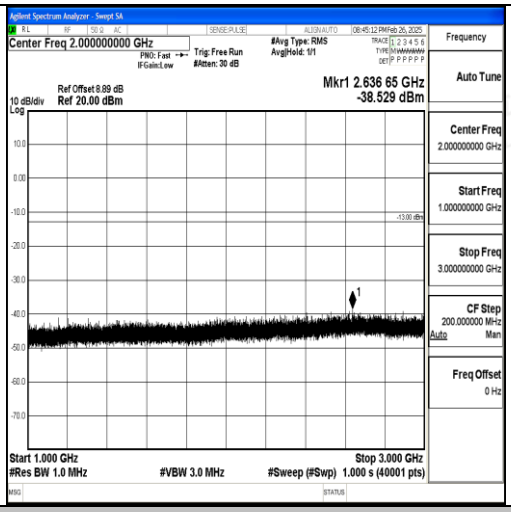
Band13_10MHz_QPSK_23230_1RB#0_0.009~0.15_0.009~0.15



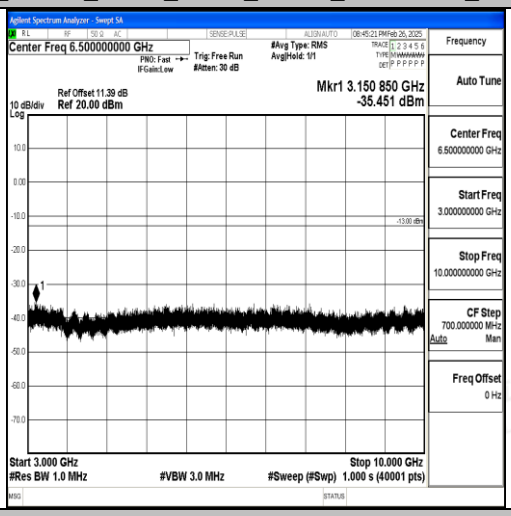
Band13_10MHz_QPSK_23230_1RB#0_0.15~30_0.15~30



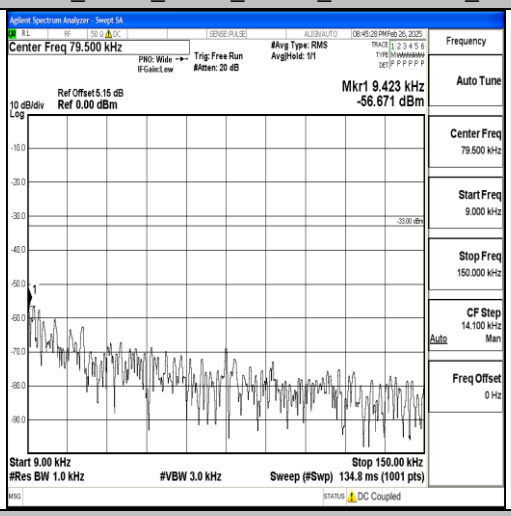
Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000



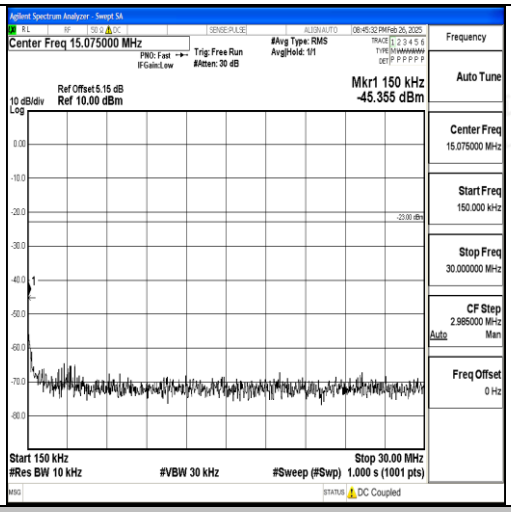
Band13_10MHz_QPSK_23230_1RB#0_1000~3000_1000~3000



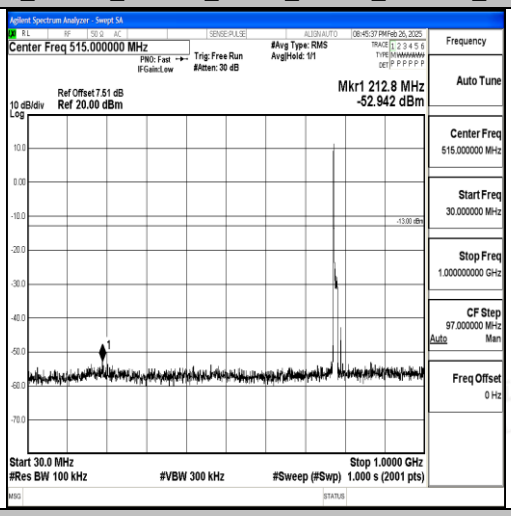
Band13_10MHz_QPSK_23230_1RB#0_3000~10000_3000~10000



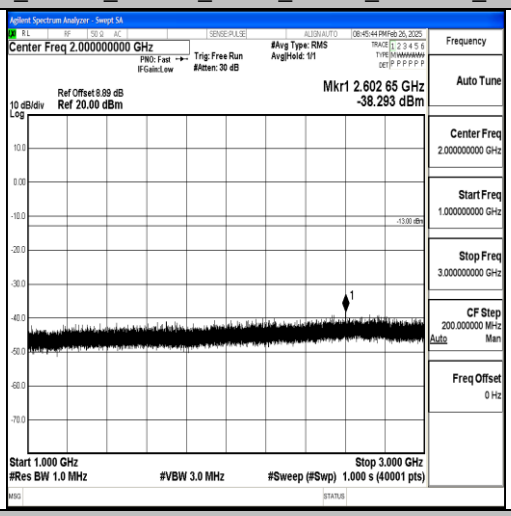
Band13_10MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15



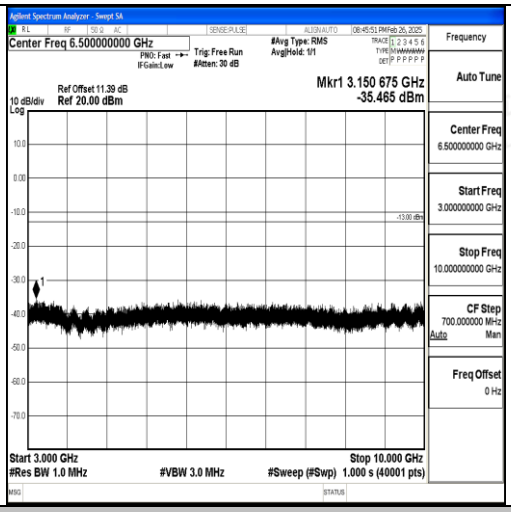
Band13_10MHz_16QAM_23230_1RB#0_0.15~30_0.15~30



Band13_10MHz_16QAM_23230_1RB#0_30~1000_30~1000



Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000



Band13_10MHz_16QAM_23230_1RB#0_3000~10000_3000~10000