



Appendix H: Test Data for E-UTRA Band 13

Product Name: Smartphone

Test Model: J24

Environmental Conditions

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





H.1 Conducted Output Power Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.96	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.13	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.98	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.85	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.67	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.87	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.83	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.86	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.68	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.96	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.97	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.83	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.74	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.87	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.53	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.57	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.66	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.47	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.48	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.72	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.81	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.80	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.86	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.62	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.71	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.90	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.73	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.51	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.41	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.59	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.50	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.52	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.43	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.58	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.62	PASS



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Scan code to check authenticity



Band13	5MHz	QPSK	23255	12RB#6	21.56	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.62	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.49	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.53	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.75	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.91	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.54	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.61	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.52	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.51	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.53	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.51	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.58	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.54	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.60	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.51	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.52	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.53	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.61	PASS





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

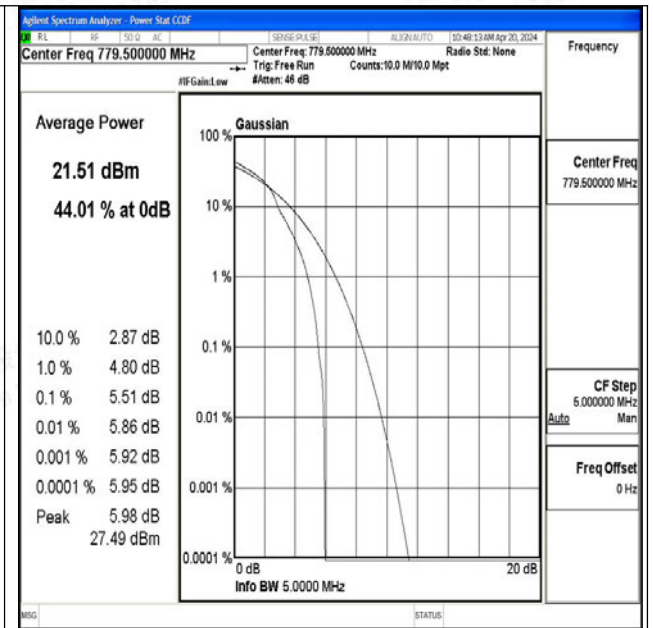
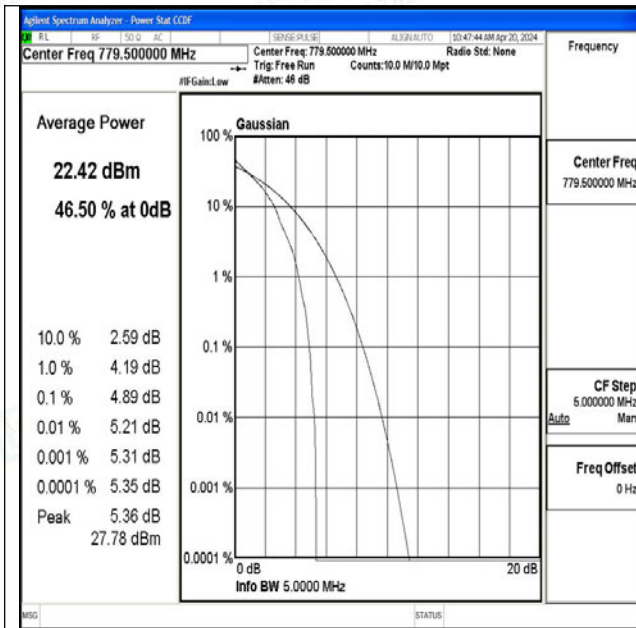
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.89	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.51	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.62	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.29	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	4.93	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.64	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.59	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.24	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.51	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.24	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.56	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.25	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.84	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.72	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.55	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.27	13	PASS



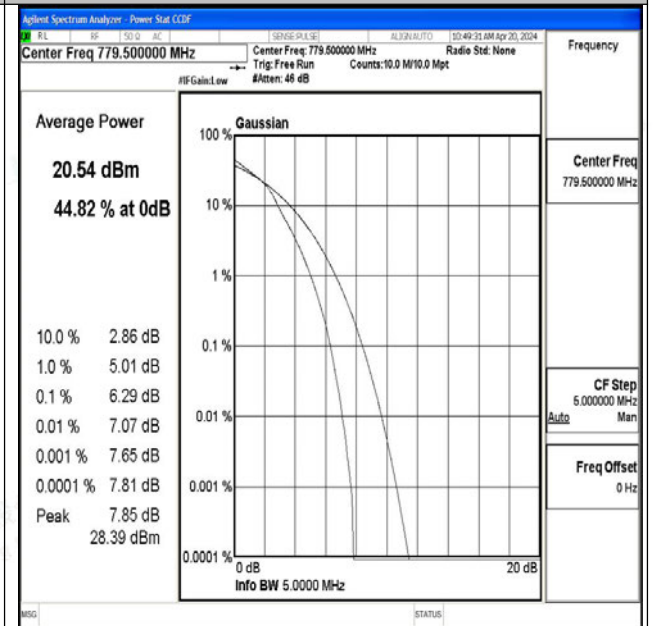
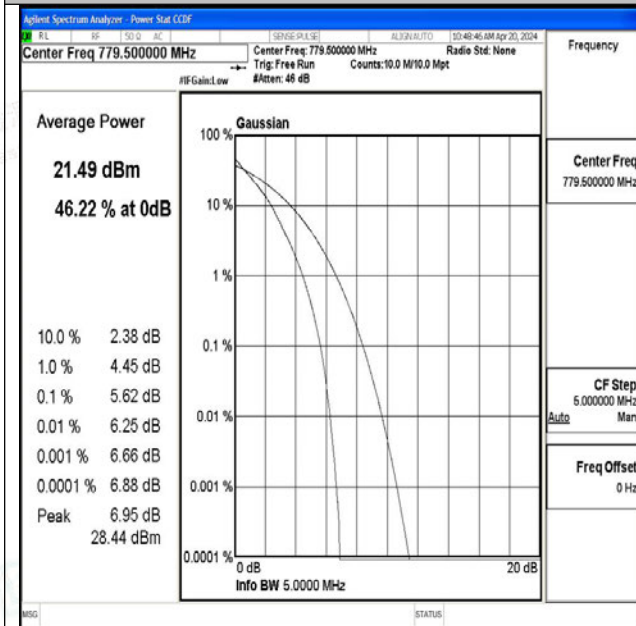


Test Graphs



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

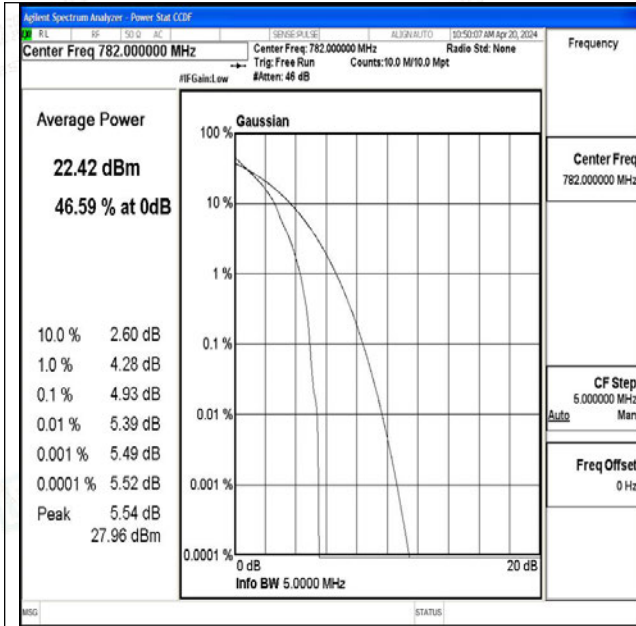
Band13-5MHz-16QAM-23205-1RB#0-PASS



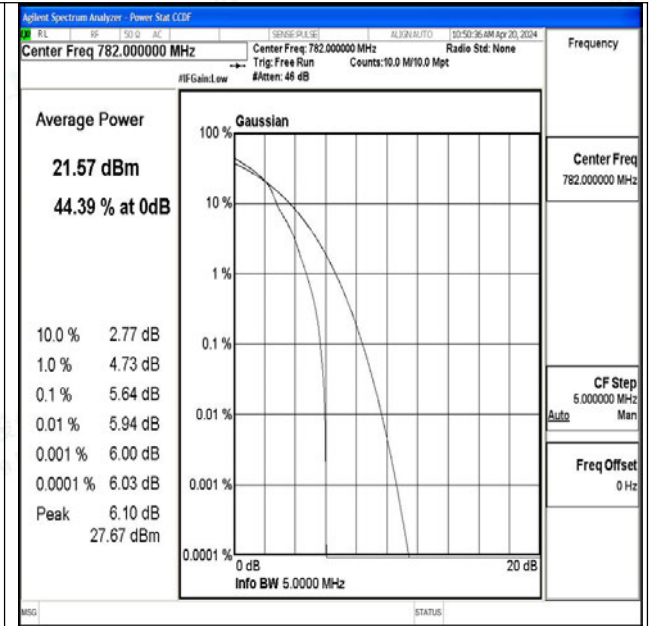
Band13-5MHz-QPSK-23205-25RB#0-PASS

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

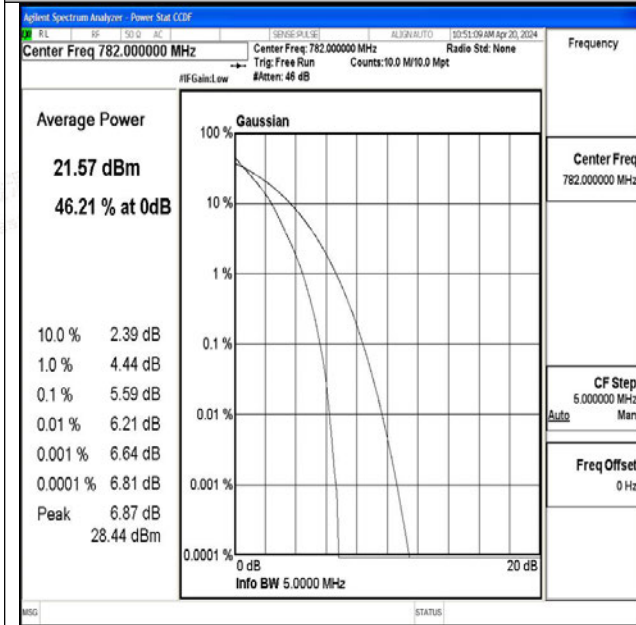




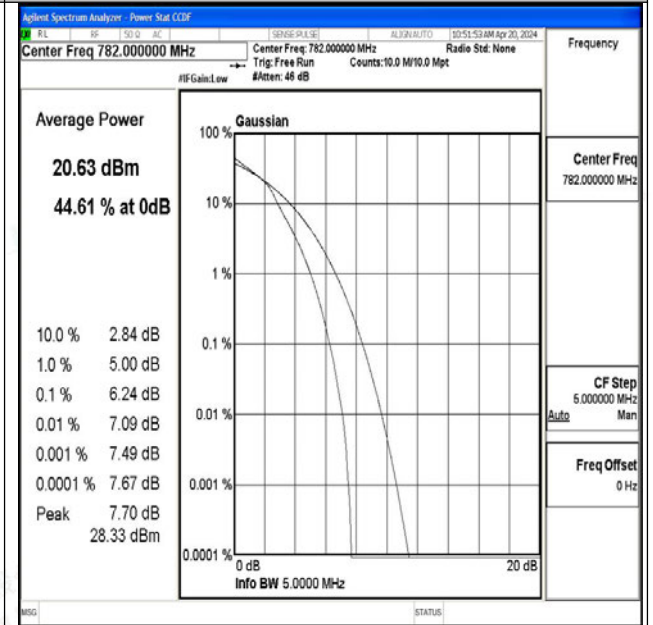
Band13-5MHz-QPSK-23230-1RB#0-PASS



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

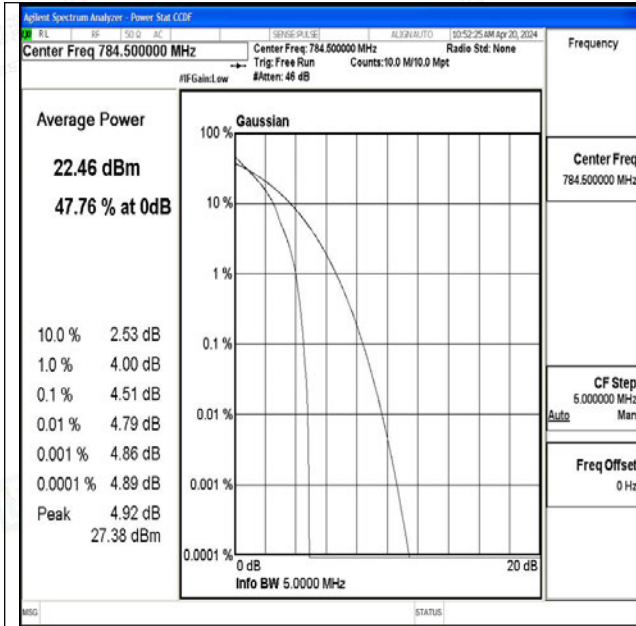


Band13-5MHz-QPSK-23230-25RB#0-PASS

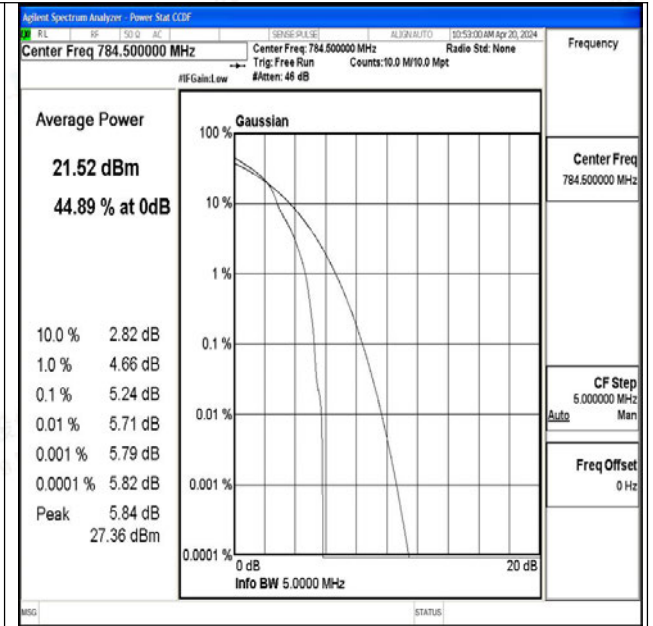


Band13-5MHz-16QAM-23230-25RB#0-PASS

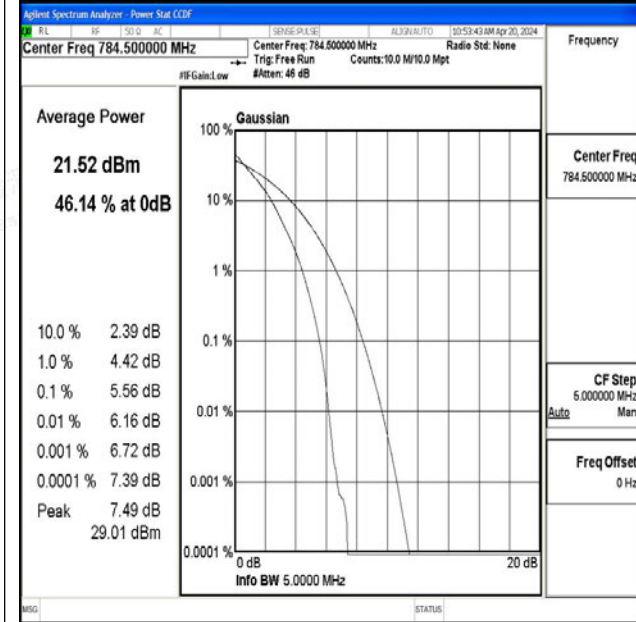




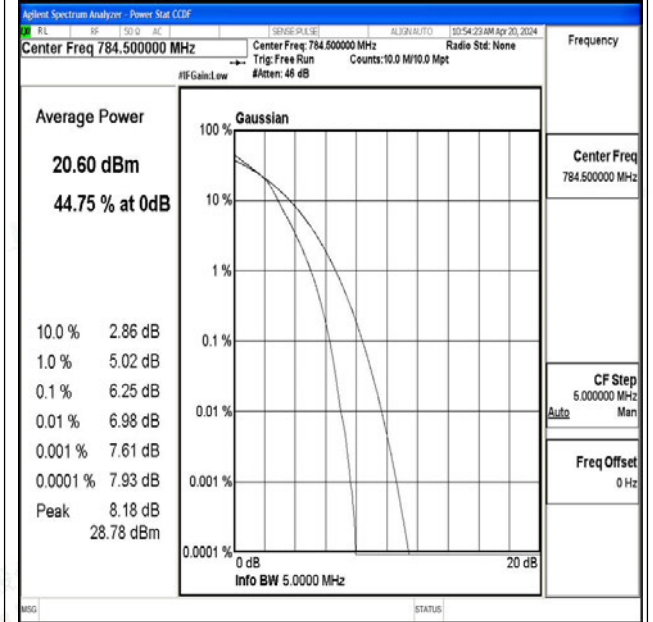
Band13-5MHz-QPSK-23255-1RB#0-PASS



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

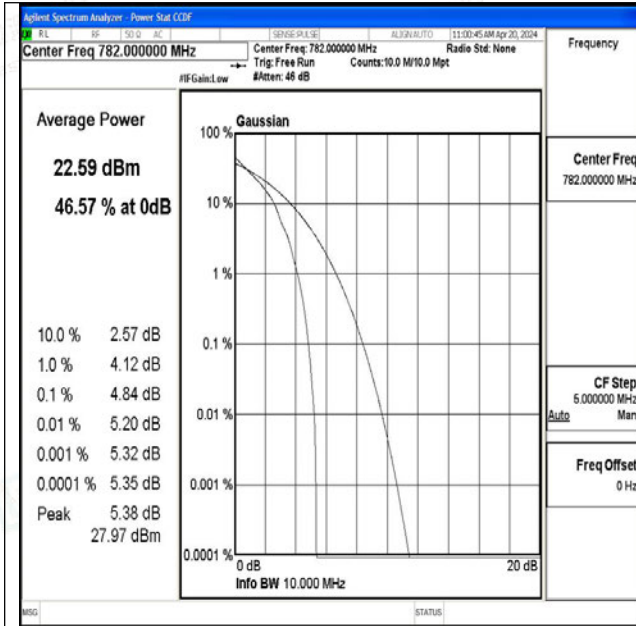


Band13-5MHz-QPSK-23255-25RB#0-PASS

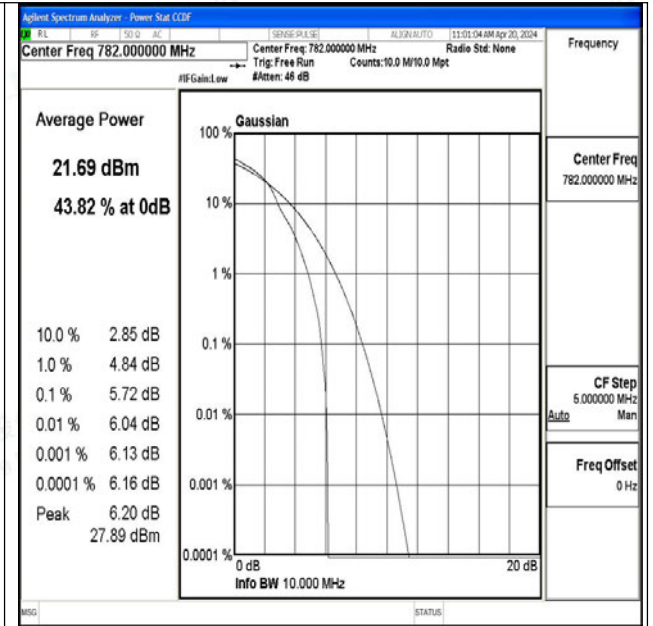


Band13-5MHz-16QAM-23255-25RB#0-PASS

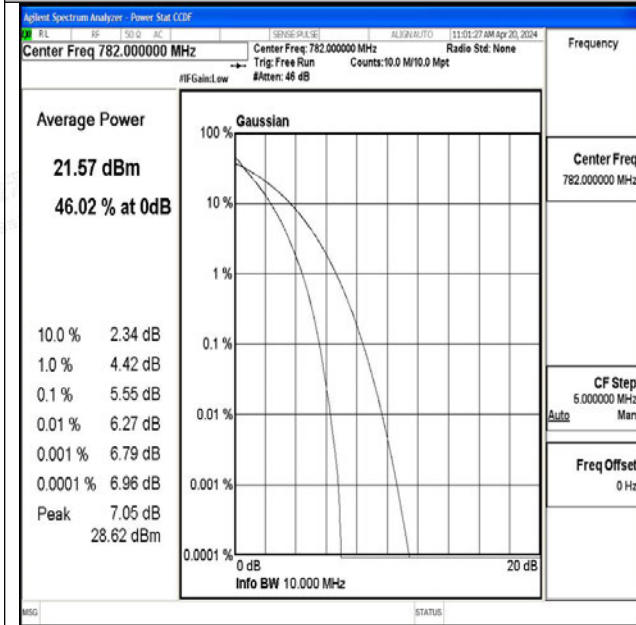




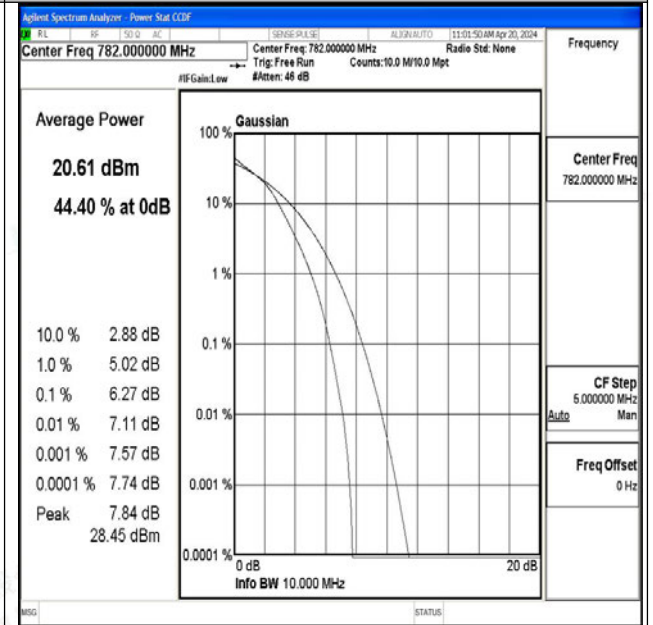
Band13-10MHz-QPSK-23230-1RB#0-PASS



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



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



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





H.3 26dB Bandwidth and Occupied Bandwidth

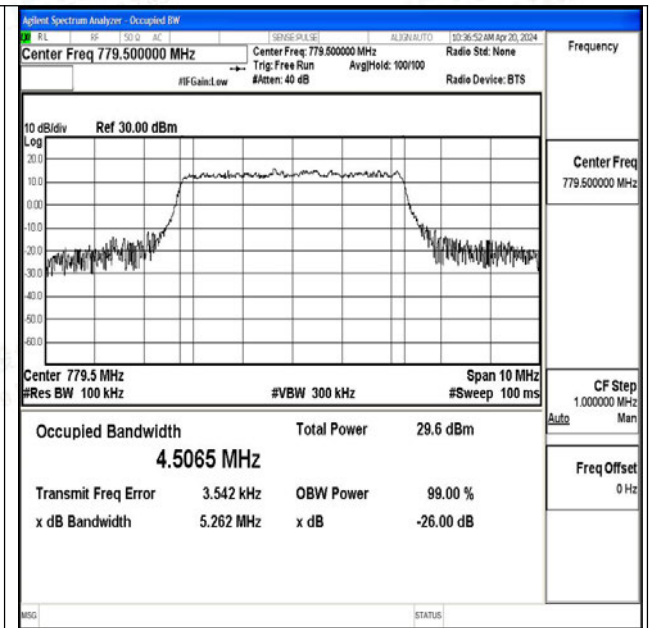
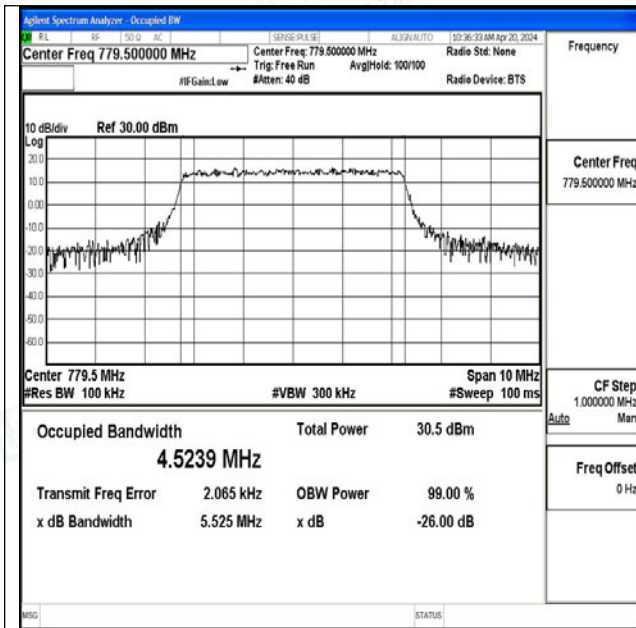
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5239	5.525	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5065	5.262	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5162	5.615	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5314	5.433	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5252	6.243	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5402	5.623	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9865	10.04	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9847	11.06	PASS



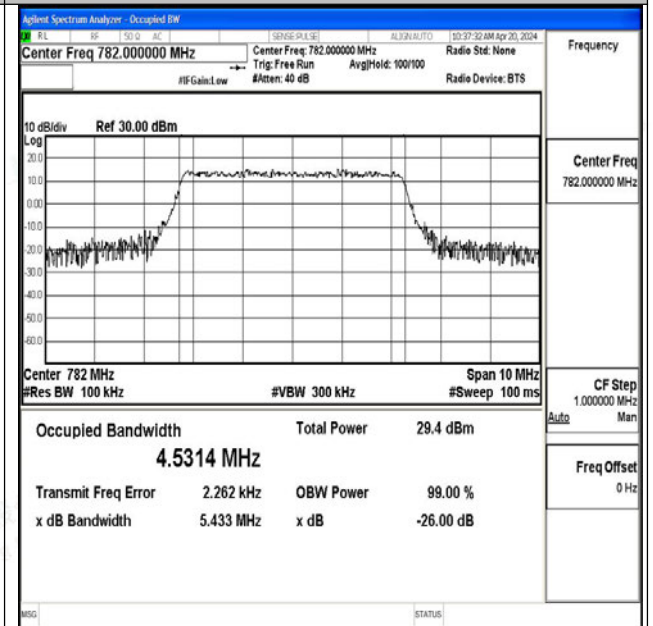
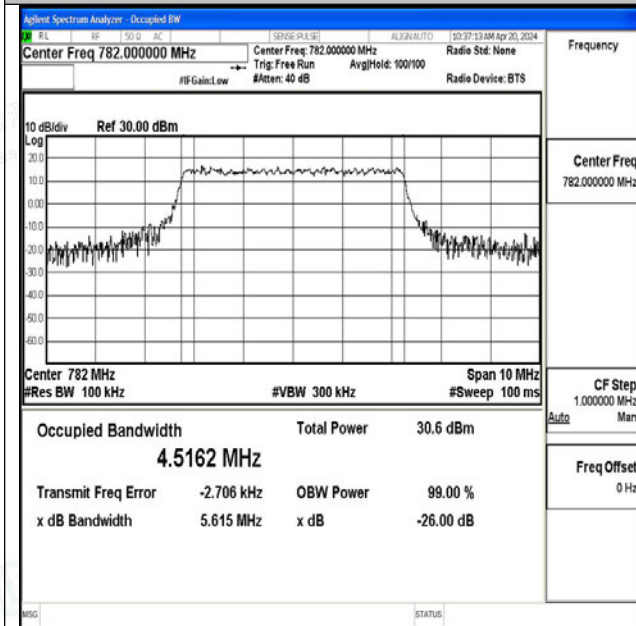


Test Graphs



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

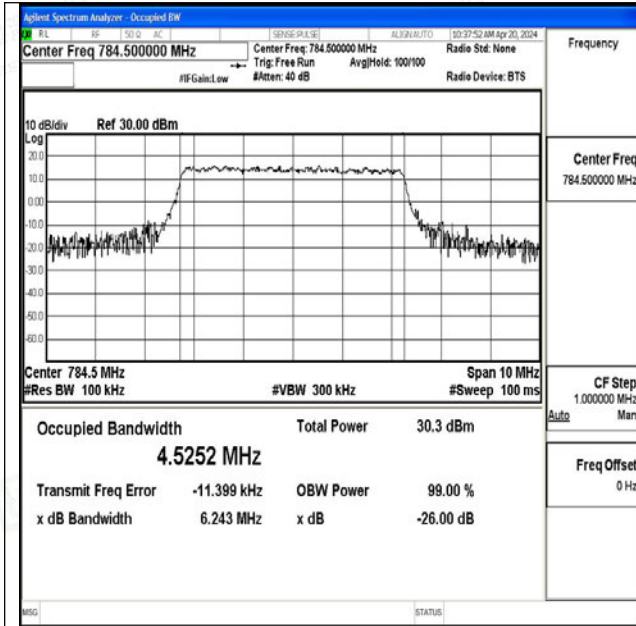
Band13-5MHz-16QAM-23205-25RB#0-PASS



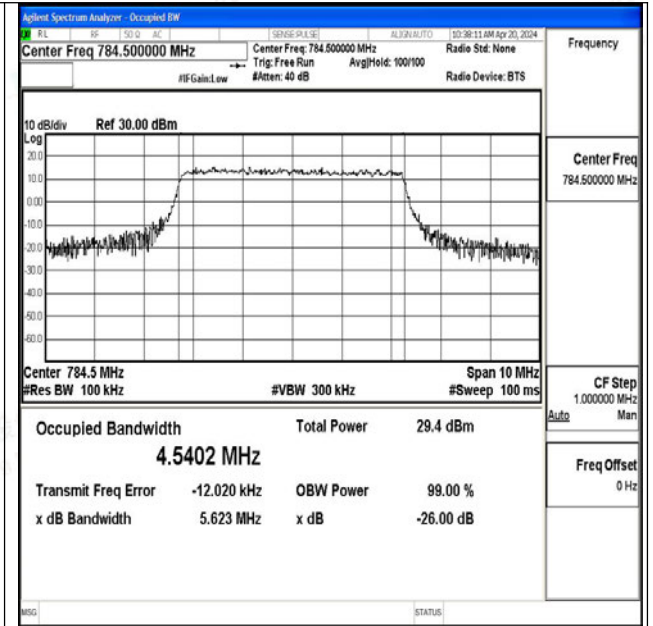
Band13-5MHz-QPSK-23230-25RB#0-PASS

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

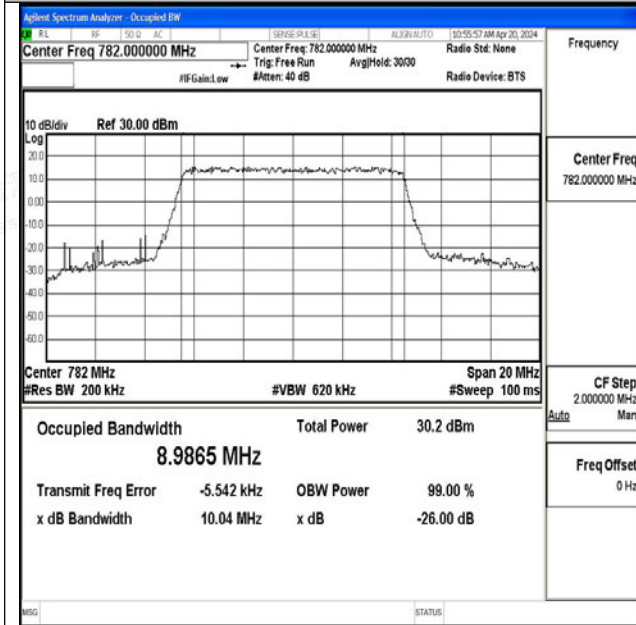




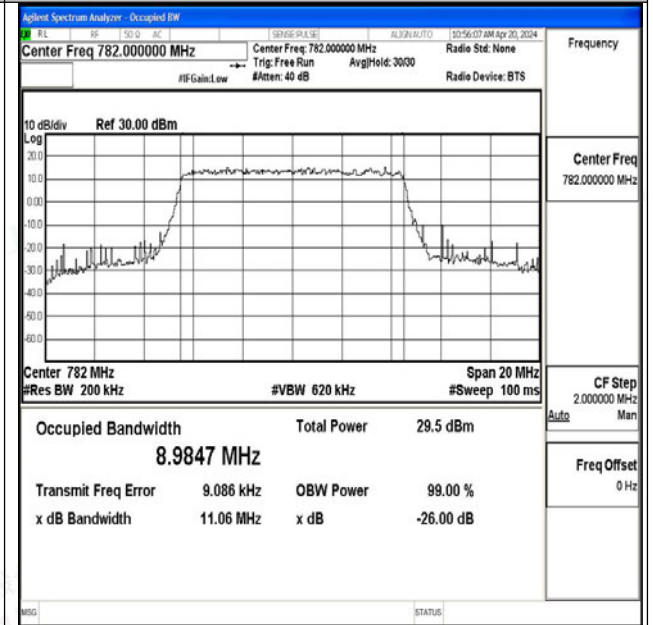
Band13-5MHz-QPSK-23255-25RB#0-PASS



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



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



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



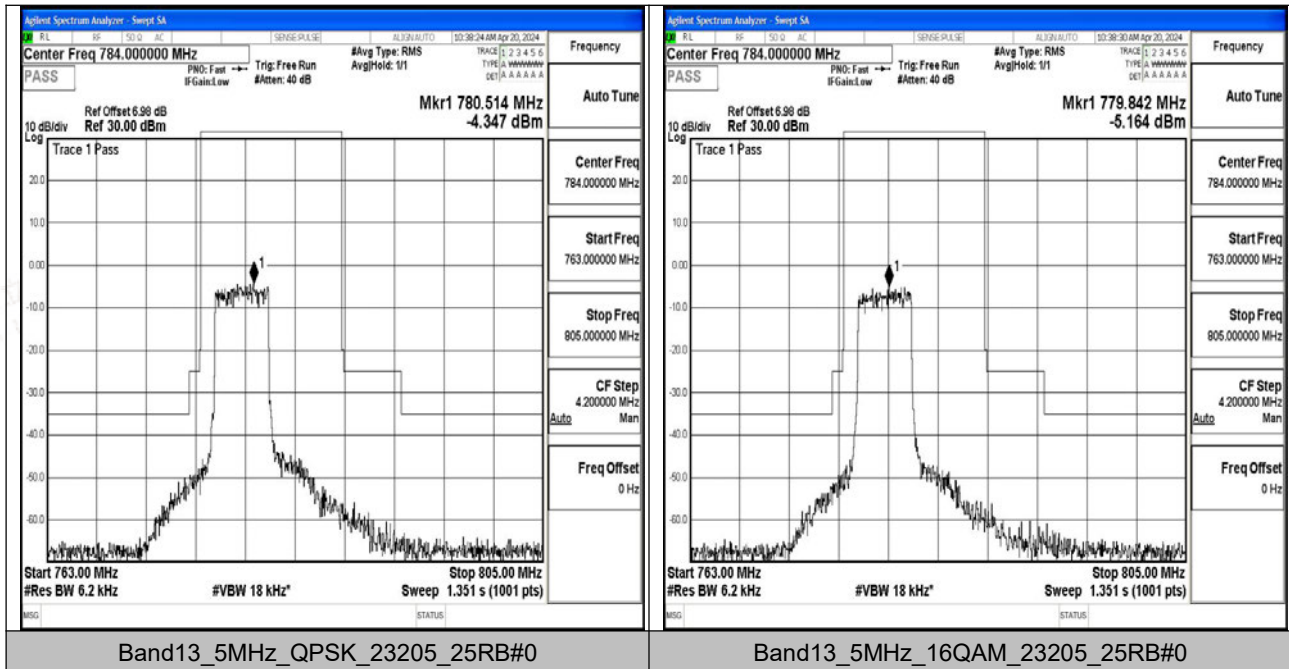


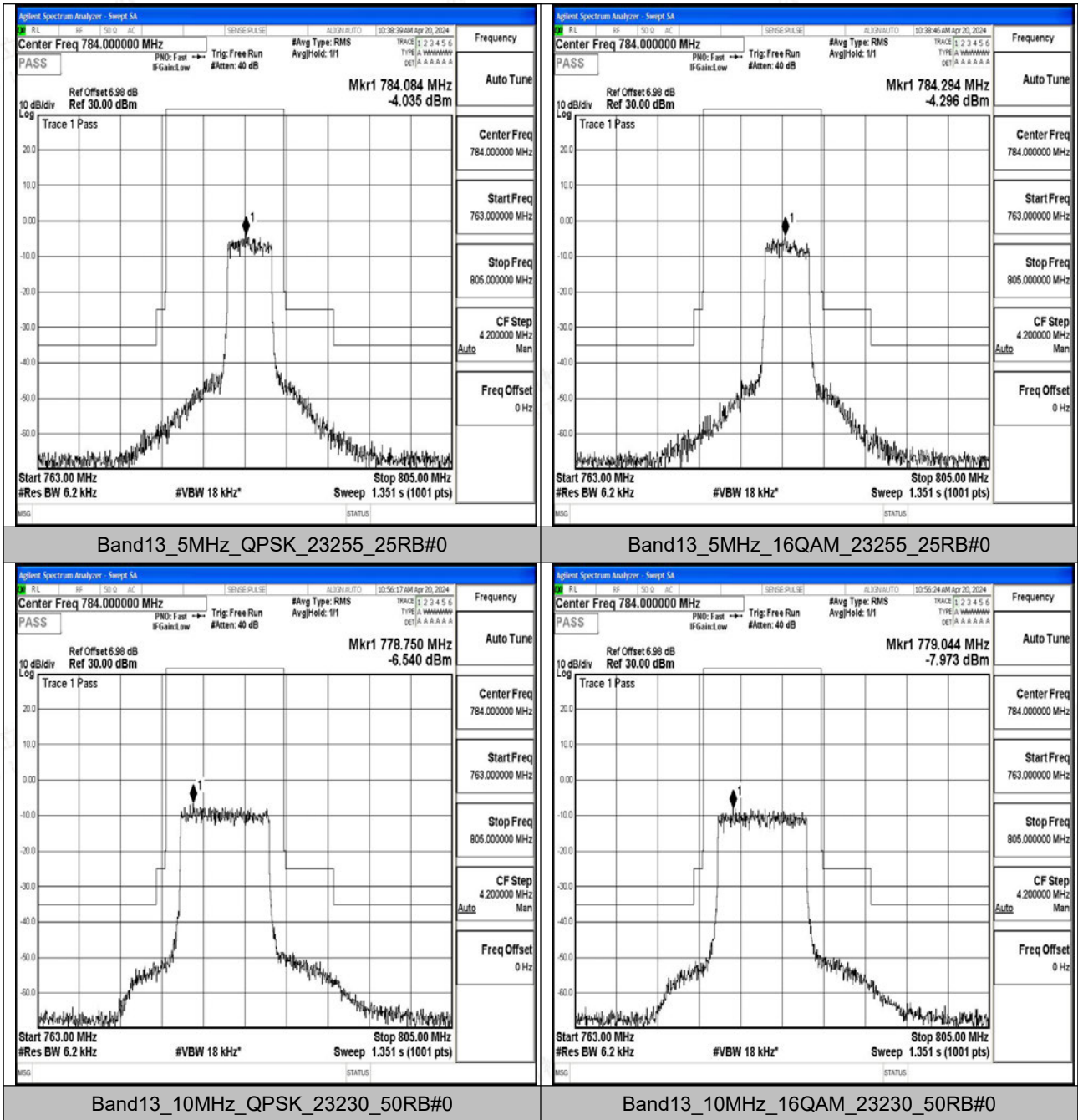
H.4 Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-50.28	PASS
Band13	5MHz	16QAM	23205	25RB#0	-52.08	PASS
Band13	5MHz	QPSK	23255	25RB#0	-45.02	PASS
Band13	5MHz	16QAM	23255	25RB#0	-45.67	PASS
Band13	10MHz	QPSK	23230	50RB#0	-51.36	PASS
Band13	10MHz	16QAM	23230	50RB#0	-52.03	PASS

Test Graphs







H.5 Conducted Spurious Emission

Test Result

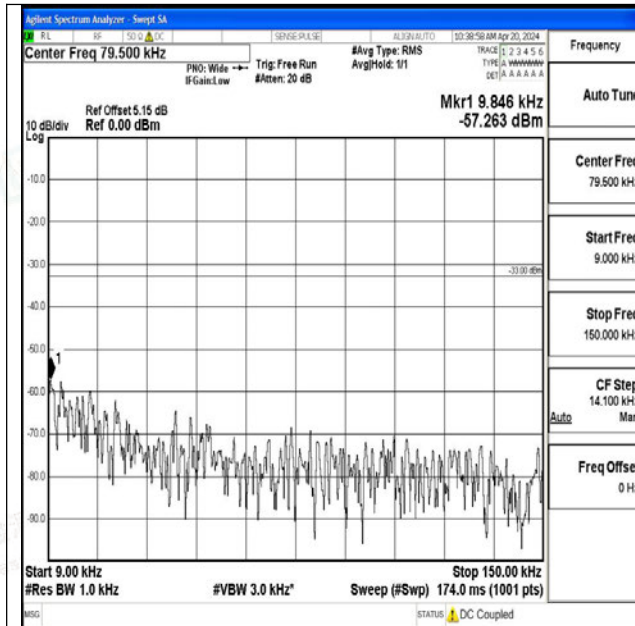
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-57.26	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-51.93	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-62.22	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-44.60	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-44.22	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-58.58	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-50.60	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-62.12	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-43.99	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-44.25	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-55.79	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-53.39	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-62.21	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-44.16	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-44.12	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-60.17	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-52.87	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-62.07	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-44.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-44.38	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-55.78	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-53.30	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-62.21	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-43.32	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-44.13	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-55.98	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-51.55	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-62.00	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-45.17	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-44.01	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-58.49	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-51.78	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-61.88	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-44.82	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-44.17	PASS



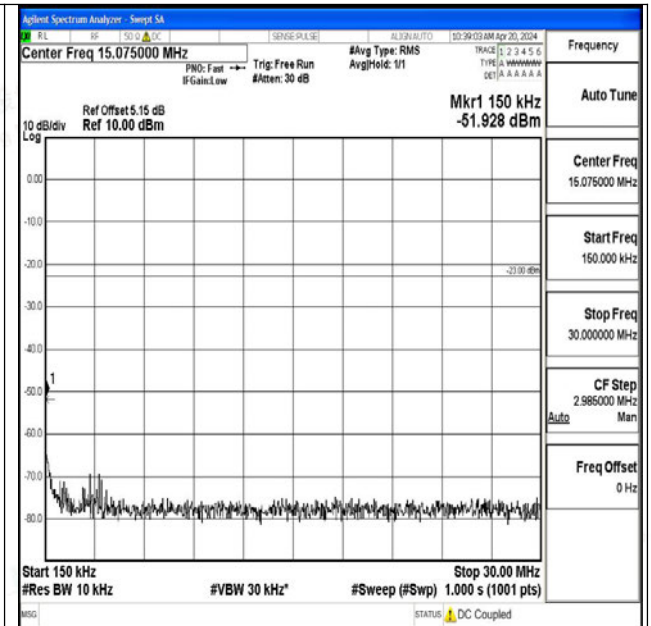


Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-57.92	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-51.29	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-62.27	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-44.05	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-44.08	PASS

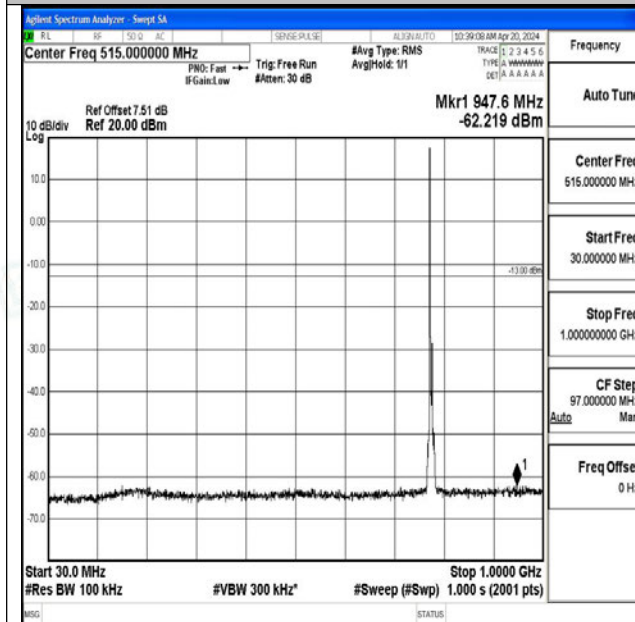
Test Graphs



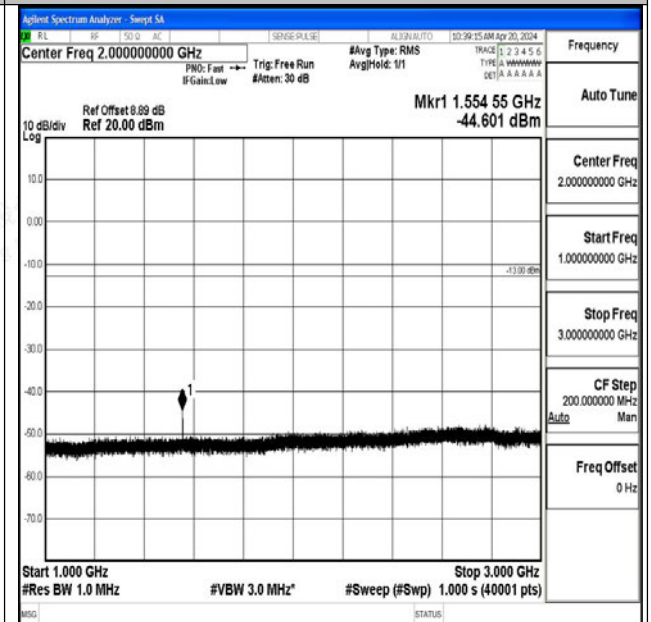
Band13_5MHz_QPSK_23205_1RB#0_0.009~0.15_0.009~0.15



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

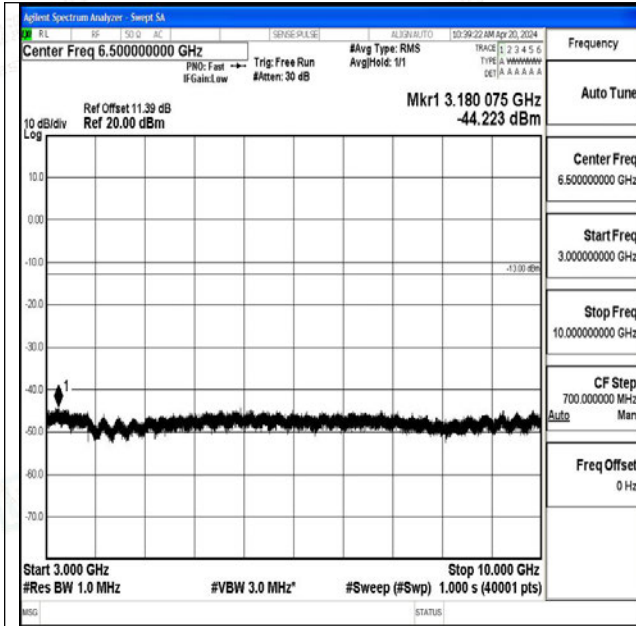


Band13_5MHz_QPSK_23205_1RB#0_30~1000_30~1000

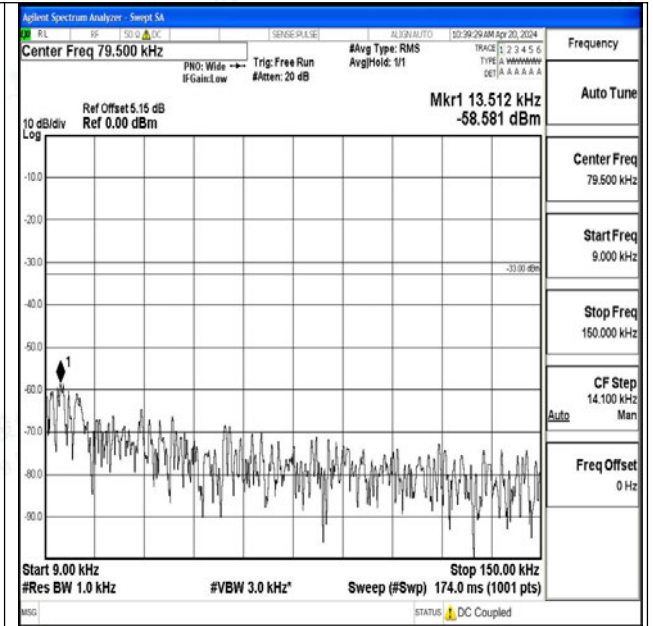


Band13_5MHz_QPSK_23205_1RB#0_1000~3000_1000~3000

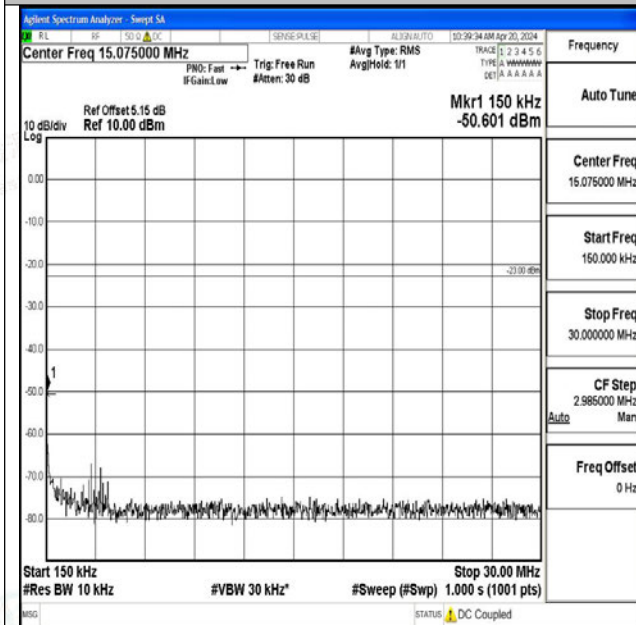




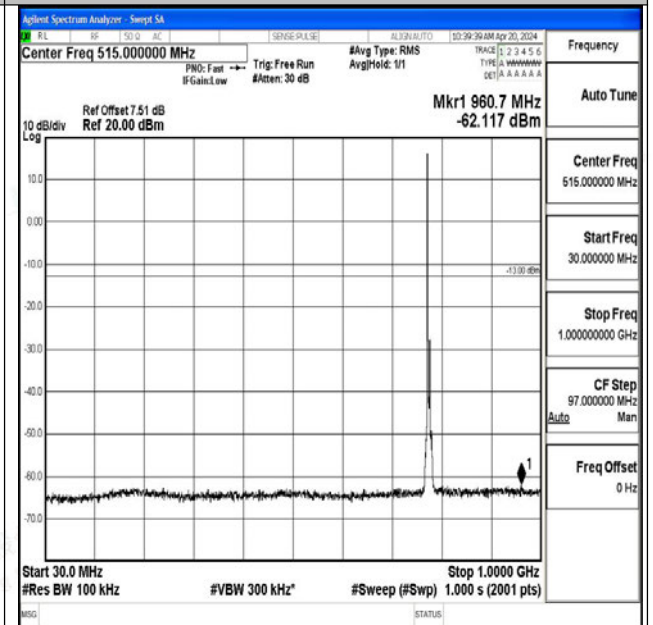
Band13_5MHz_QPSK_23205_1RB#0_3000~10000_300
0~10000



Band13_5MHz_16QAM_23205_1RB#0_0.009~0.15_0.0
09~0.15

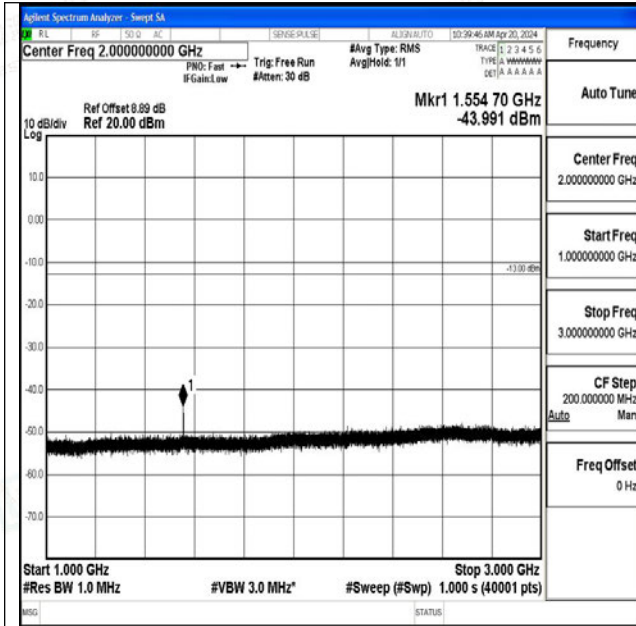


Band13_5MHz_16QAM_23205_1RB#0_0.15~30_0.15~3
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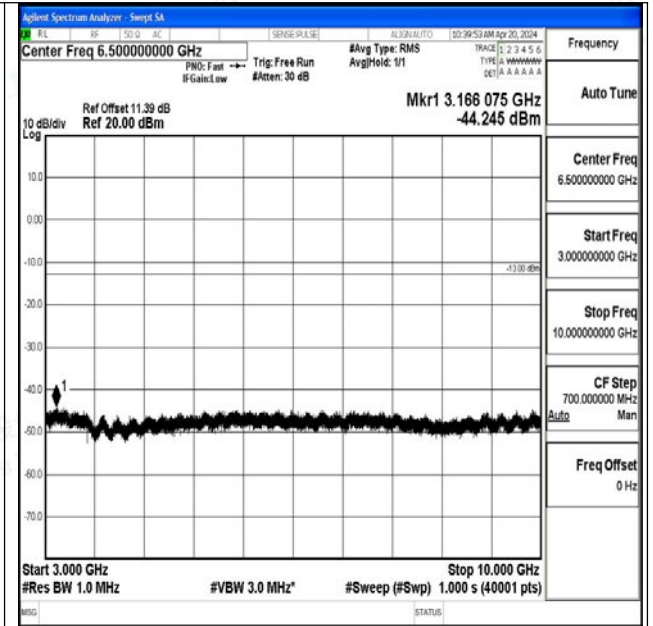


Band13_5MHz_16QAM_23205_1RB#0_30~1000_30~10
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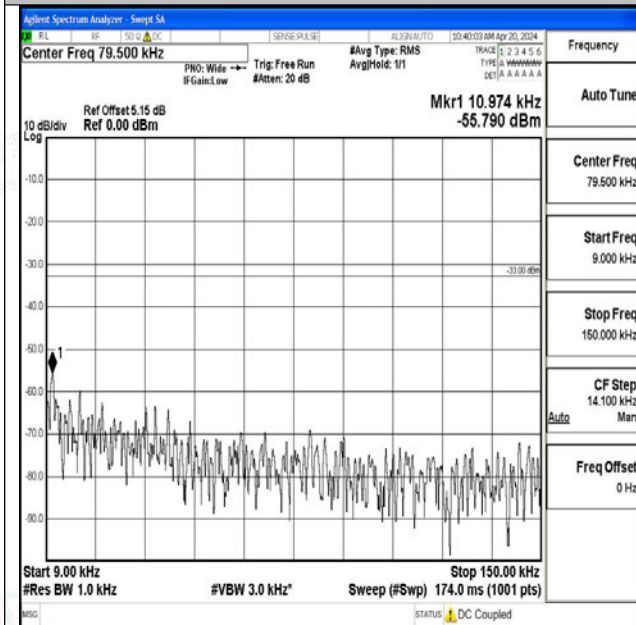




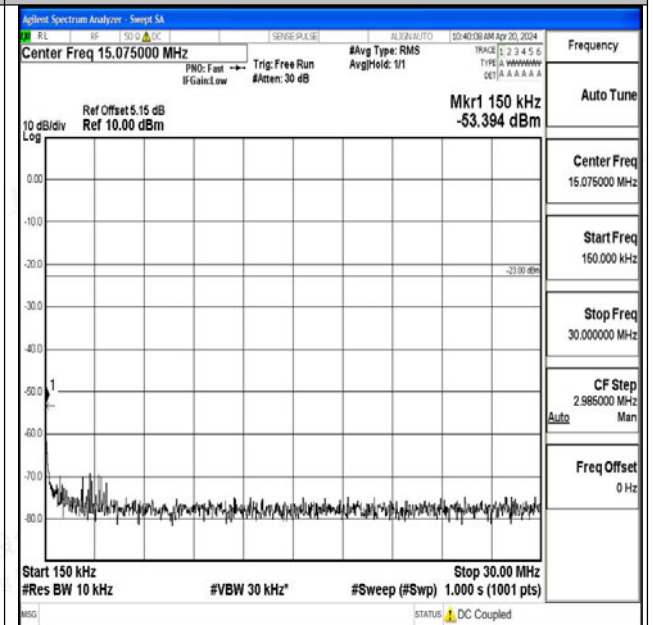
Band13_5MHz_16QAM_23205_1RB#0_1000~3000_100
0~3000



Band13_5MHz_16QAM_23205_1RB#0_3000~10000_30
00~10000

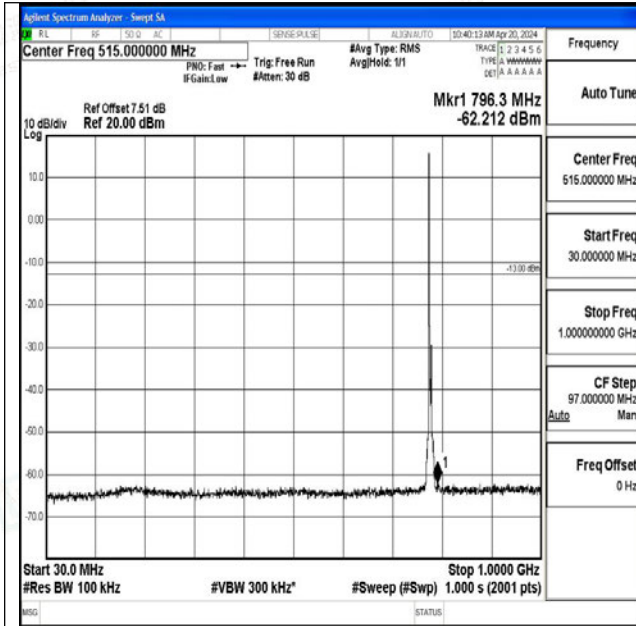


Band13_5MHz_QPSK_23230_1RB#0_0.009~0.15_0.009
~0.15

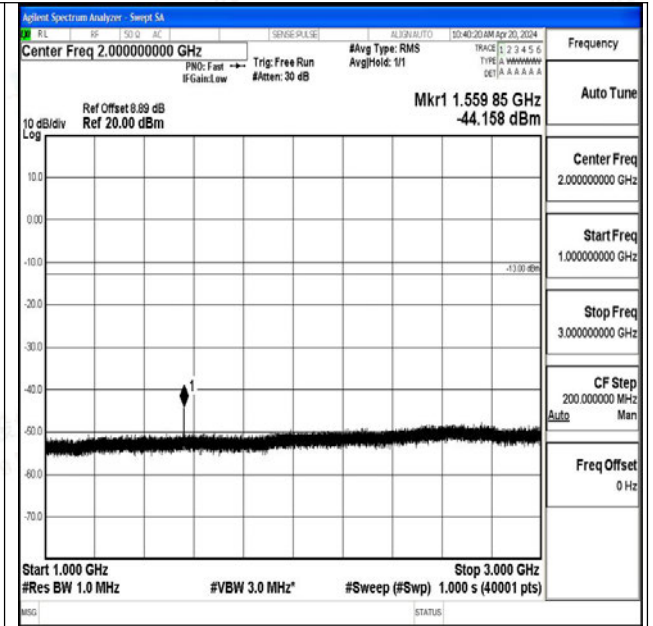


Band13_5MHz_QPSK_23230_1RB#0_0.15~30_0.15~30

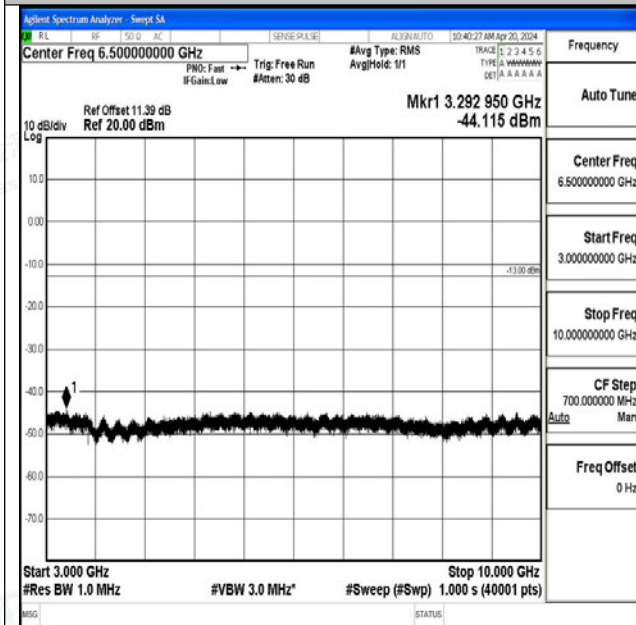




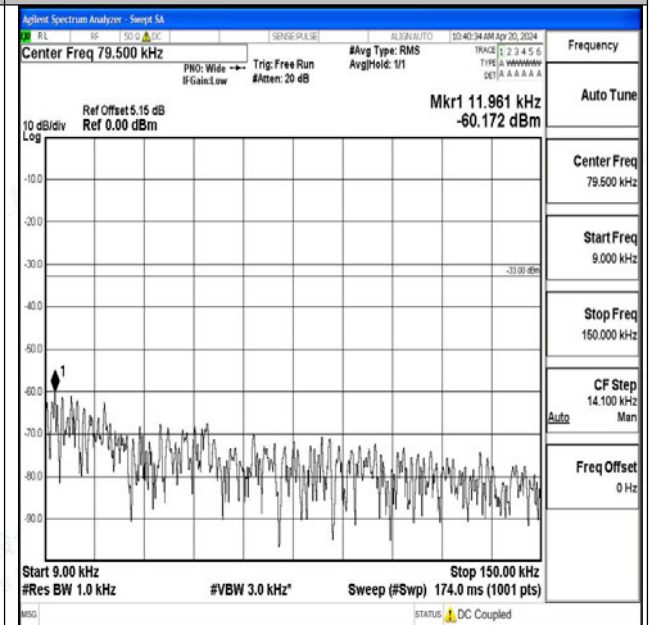
Band13_5MHz_QPSK_23230_1RB#0_30~1000_30~1000
0



Band13_5MHz_QPSK_23230_1RB#0_1000~3000_1000
~3000

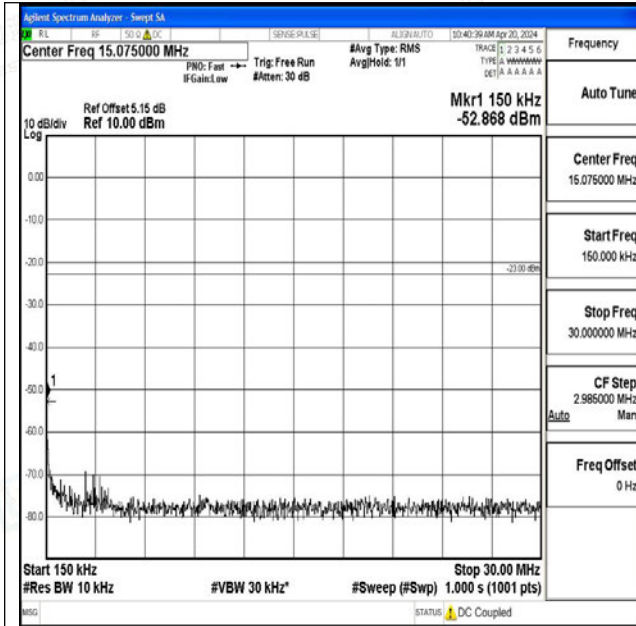


Band13_5MHz_QPSK_23230_1RB#0_3000~10000_300
0~10000



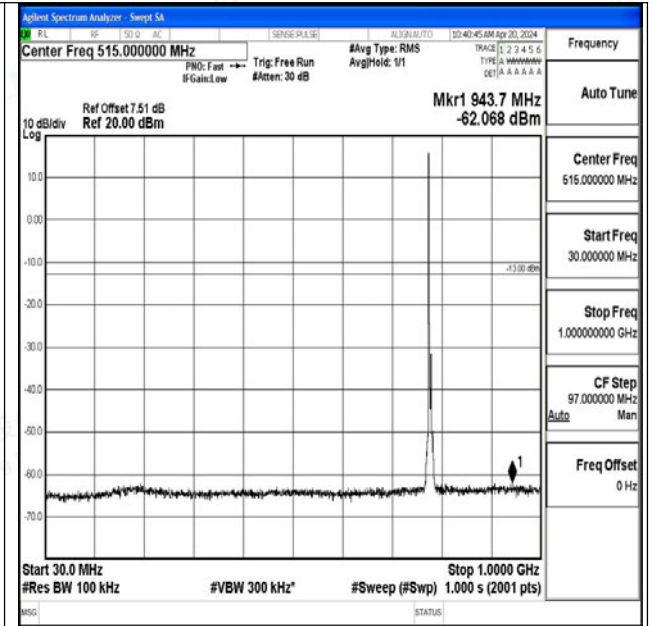
Band13_5MHz_16QAM_23230_1RB#0_0.009~0.15_0.0
09~0.15





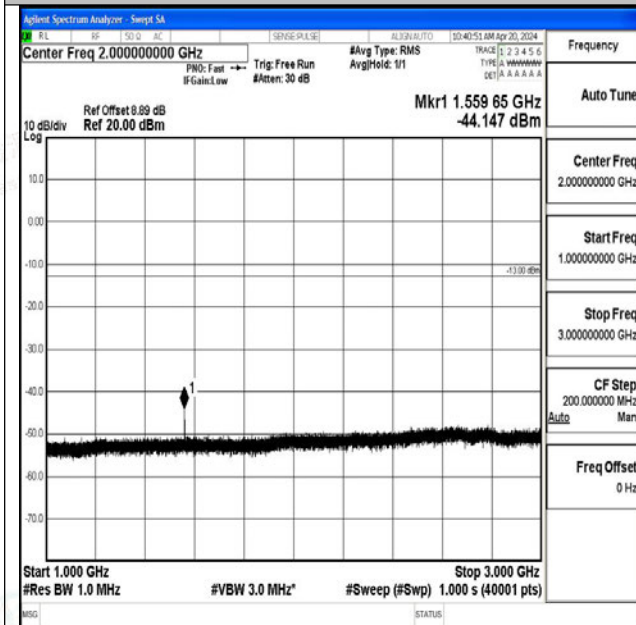
Band13_5MHz_16QAM_23230_1RB#0_0.15~30_0.15~3

0



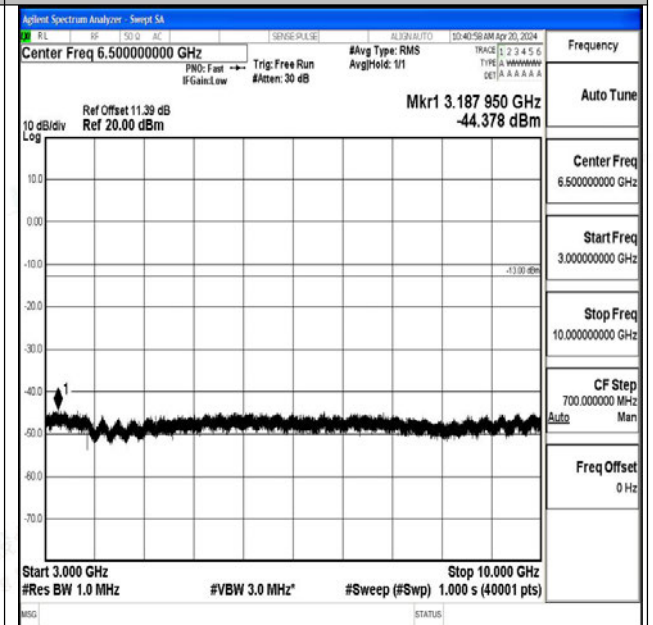
Band13_5MHz_16QAM_23230_1RB#0_30~1000_30~10

00



Band13_5MHz_16QAM_23230_1RB#0_1000~3000_1000~3000

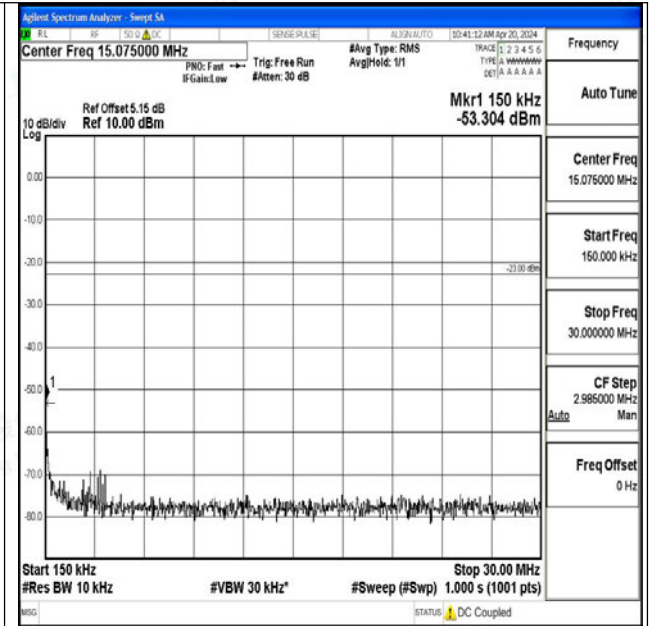
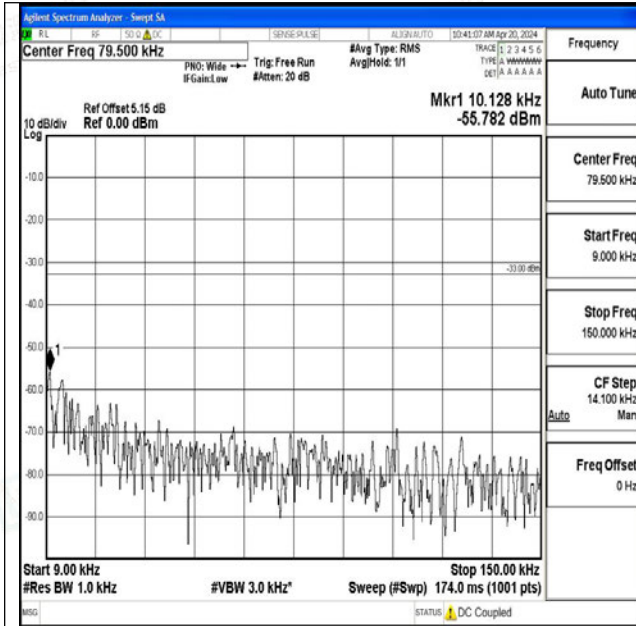
0~3000



Band13_5MHz_16QAM_23230_1RB#0_3000~10000_3000~10000

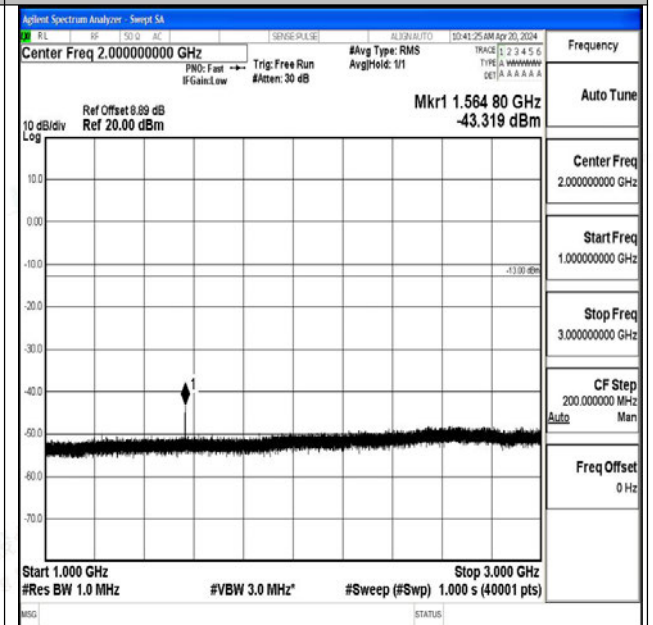
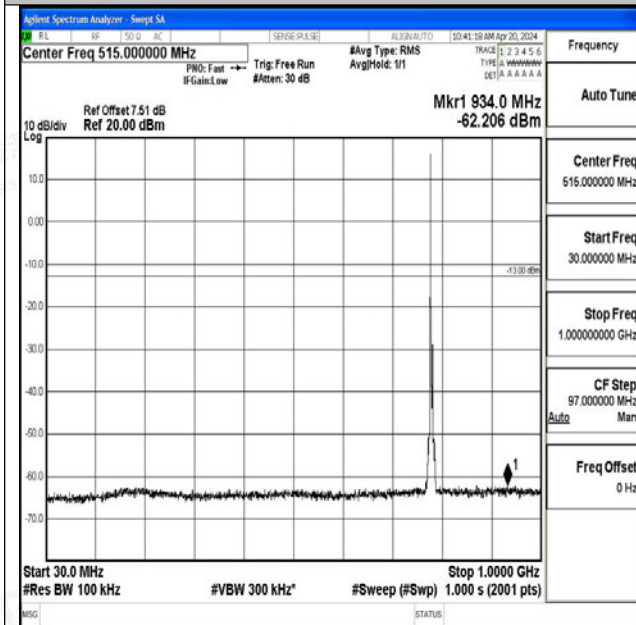
00~10000





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

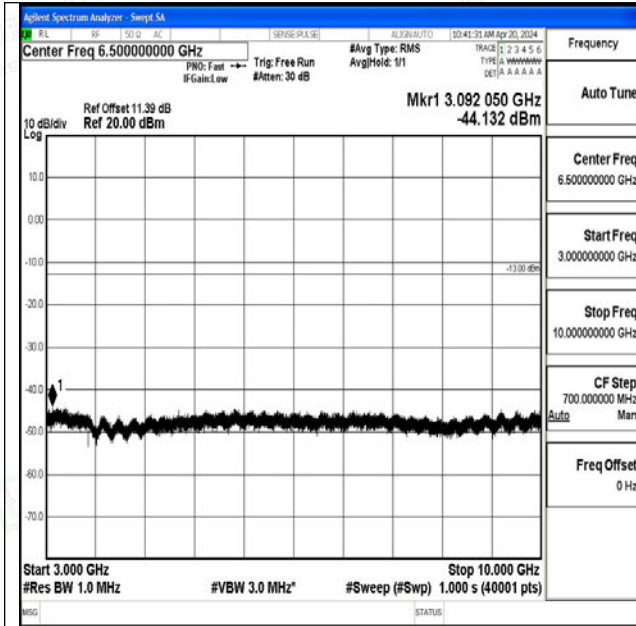
Band13_5MHz_QPSK_23255_1RB#0_0.15~30_0.15~30



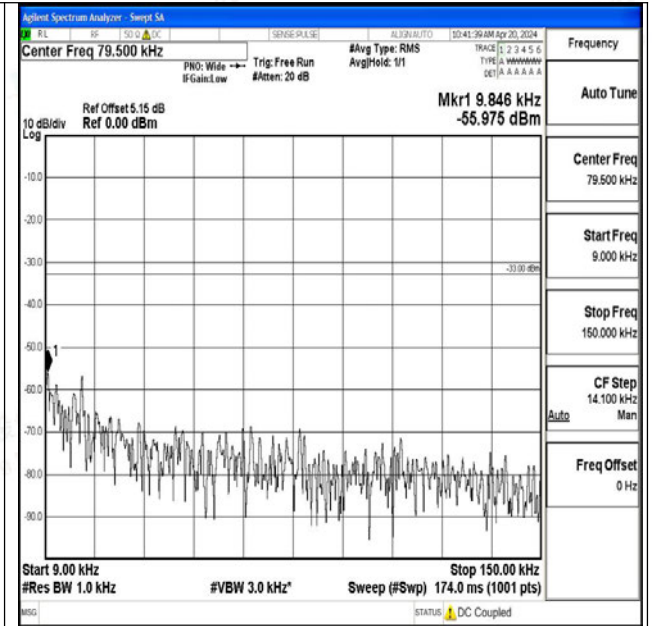
Band13_5MHz_QPSK_23255_1RB#0_30~1000_30~1000

Band13_5MHz_QPSK_23255_1RB#0_1000~3000_1000~3000

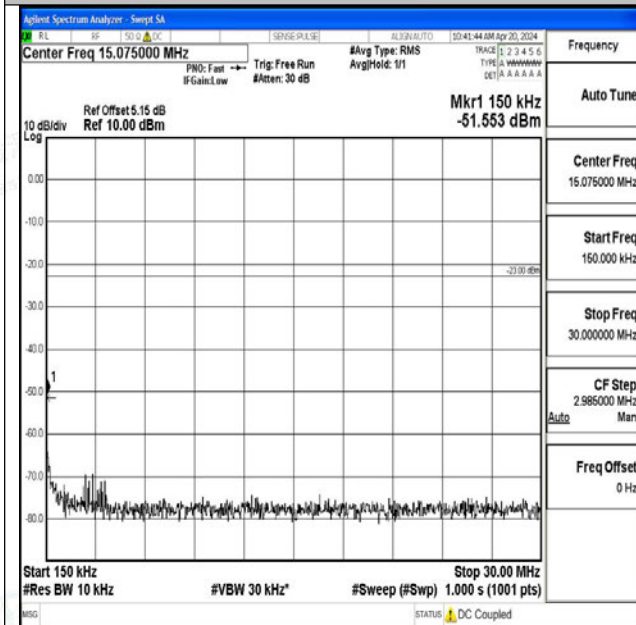




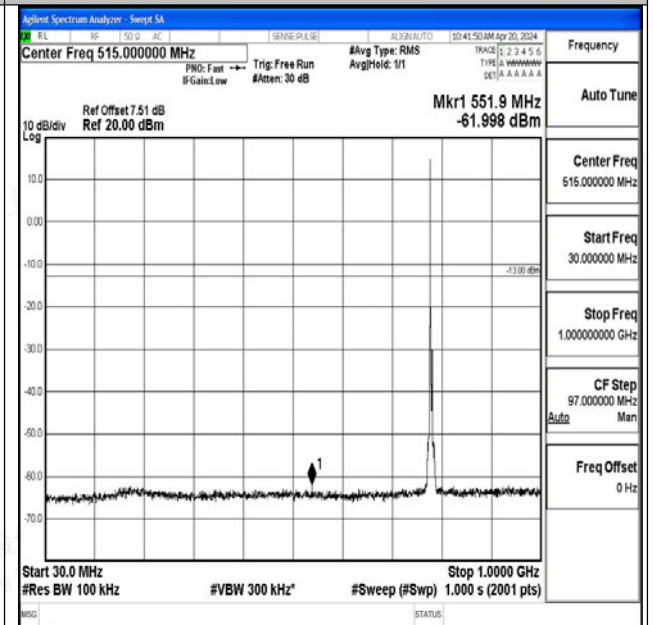
Band13_5MHz_QPSK_23255_1RB#0_3000~10000_300
0~10000



Band13_5MHz_16QAM_23255_1RB#0_0.009~0.15_0.0
09~0.15

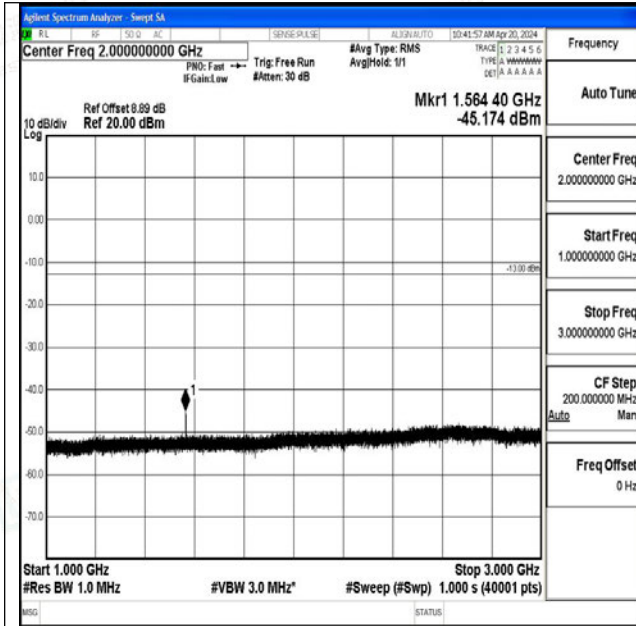


Band13_5MHz_16QAM_23255_1RB#0_0.15~30_0.15~3
0

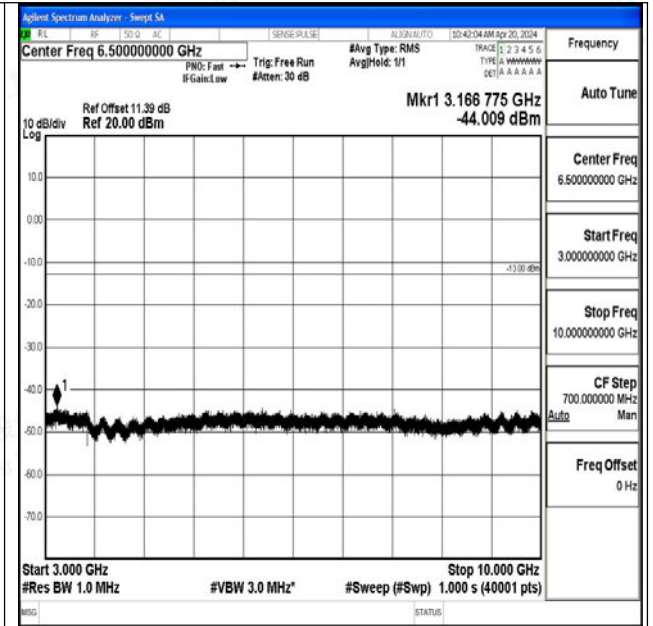


Band13_5MHz_16QAM_23255_1RB#0_30~1000_30~10
00

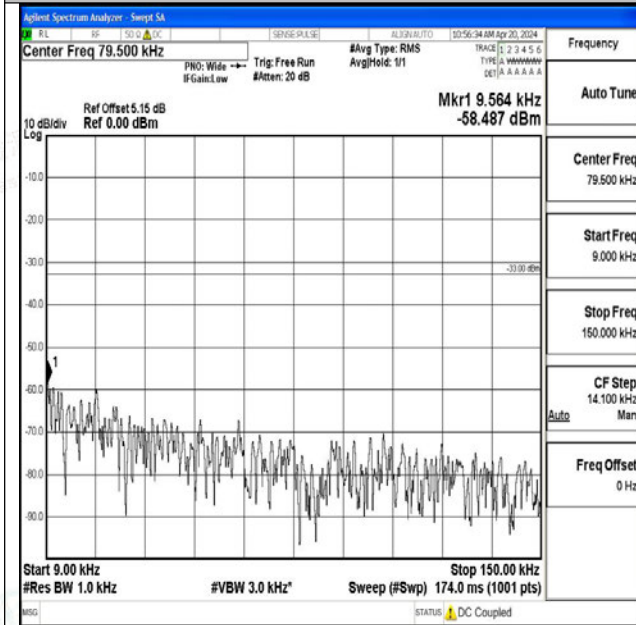




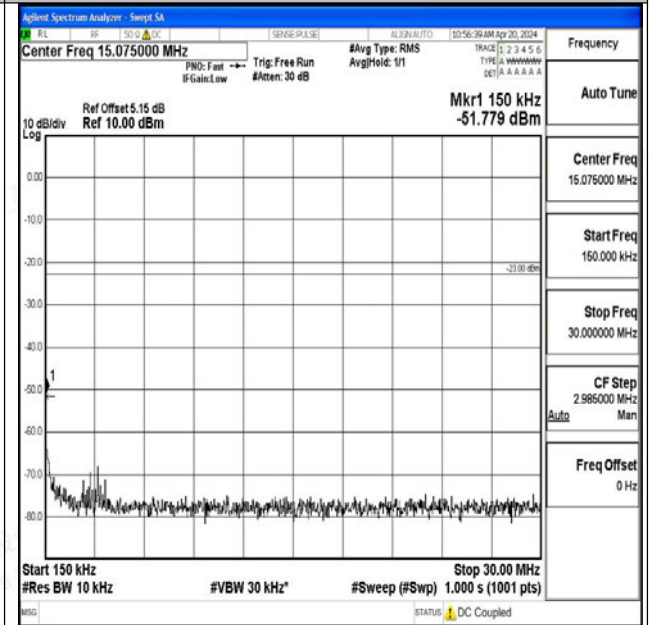
Band13_5MHz_16QAM_23255_1RB#0_1000~3000_100
0~3000



Band13_5MHz_16QAM_23255_1RB#0_3000~10000_30
00~10000

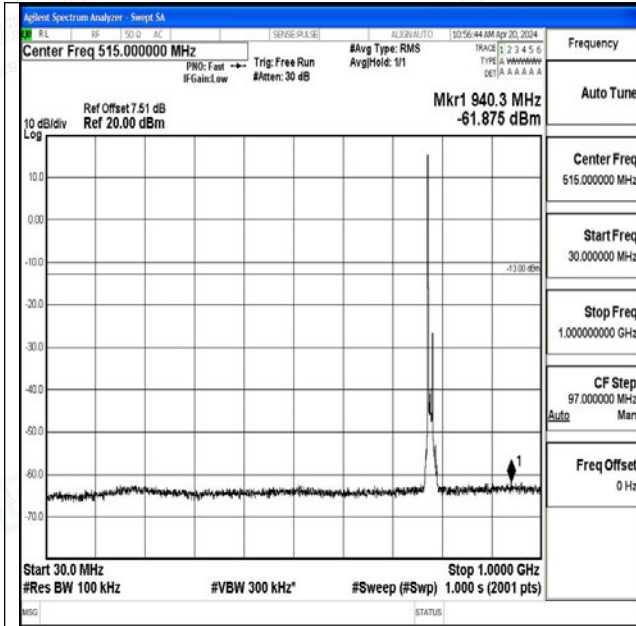


Band13_10MHz_QPSK_23230_1RB#0_0.009~0.15_0.00
9~0.15

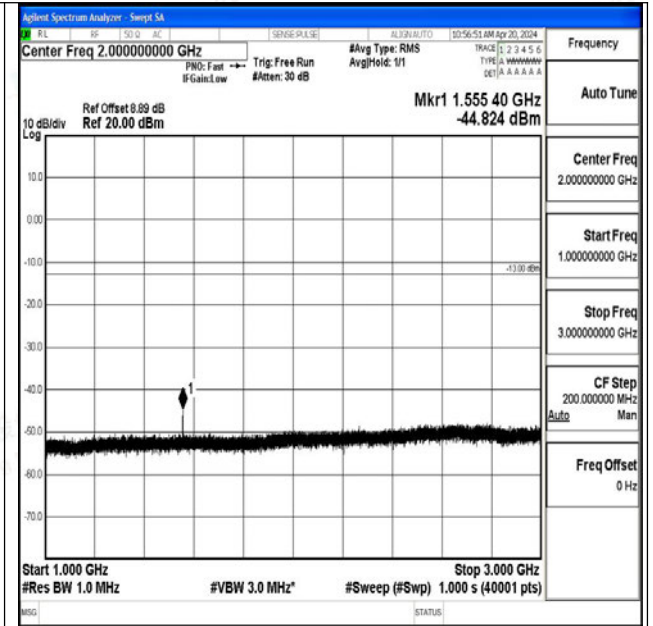


Band13_10MHz_QPSK_23230_1RB#0_0.15~30_0.15~3
0

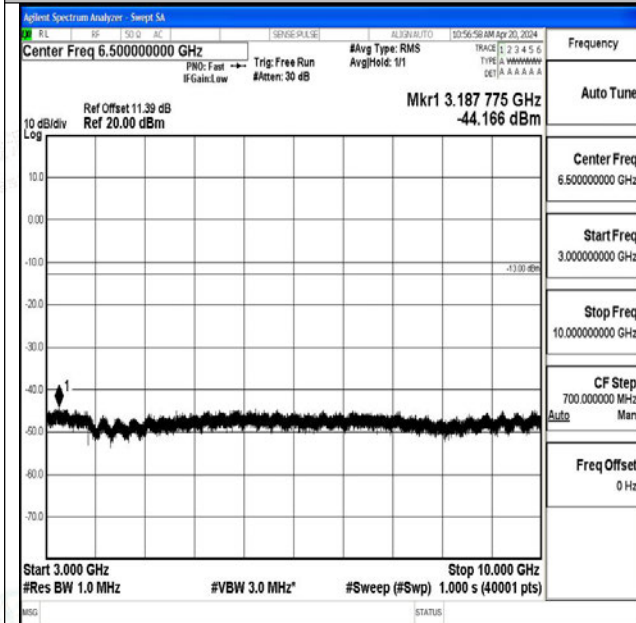




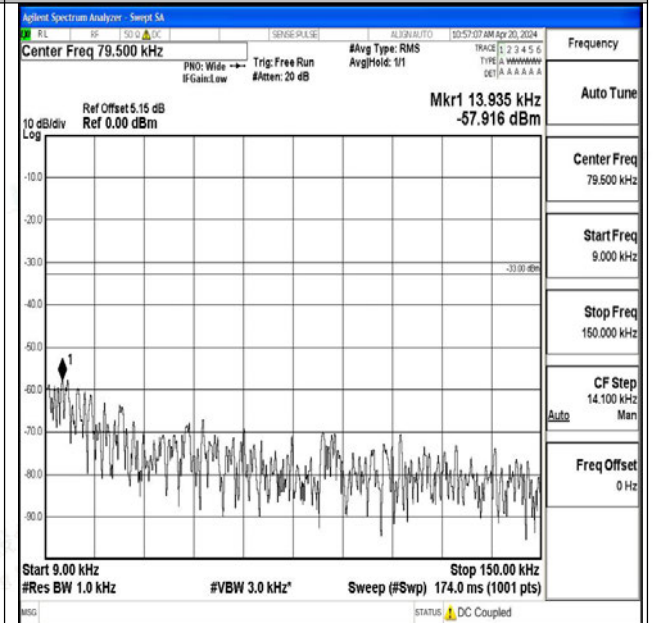
Band13_10MHz_QPSK_23230_1RB#0_30~1000_30~1000



Band13_10MHz_QPSK_23230_1RB#0_1000~3000_1000~3000

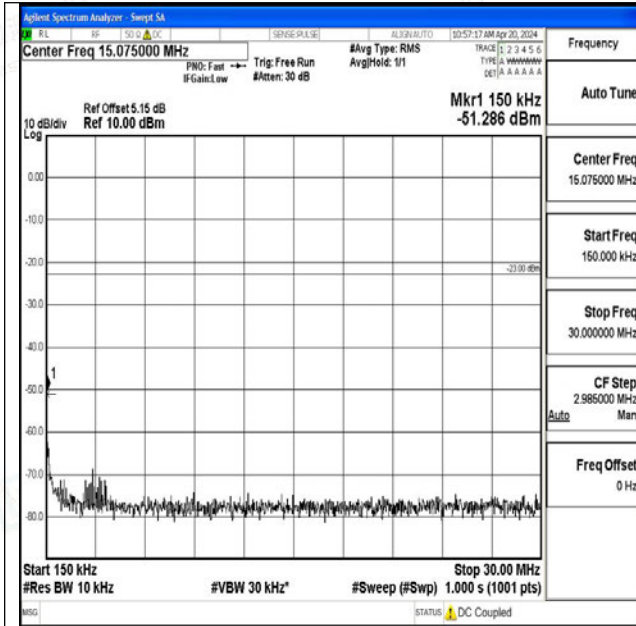


Band13_10MHz_QPSK_23230_1RB#0_3000~10000_3000~10000

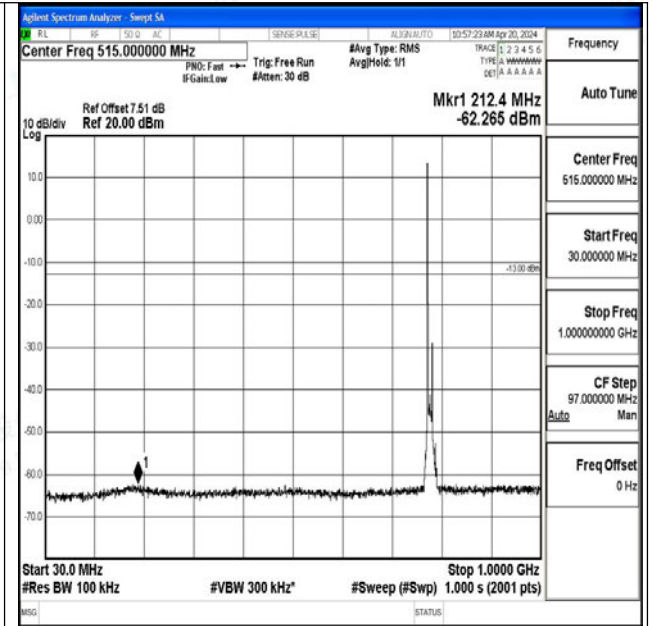


Band13_10MHz_16QAM_23230_1RB#0_0.009~0.15_0.009~0.15

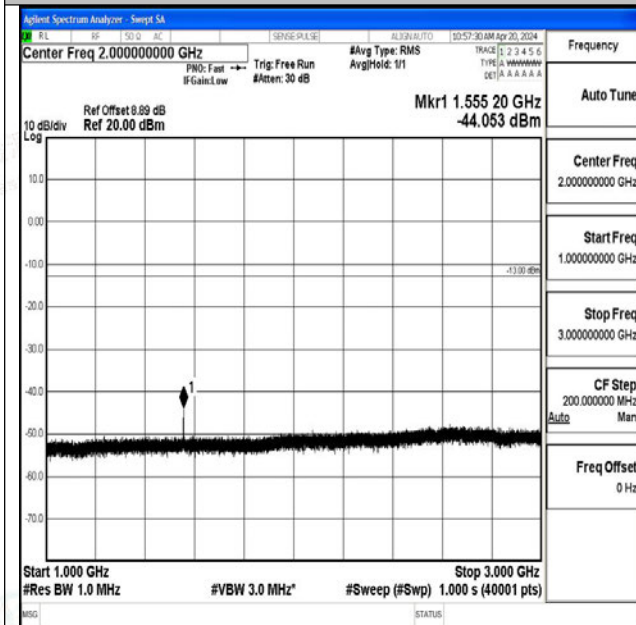




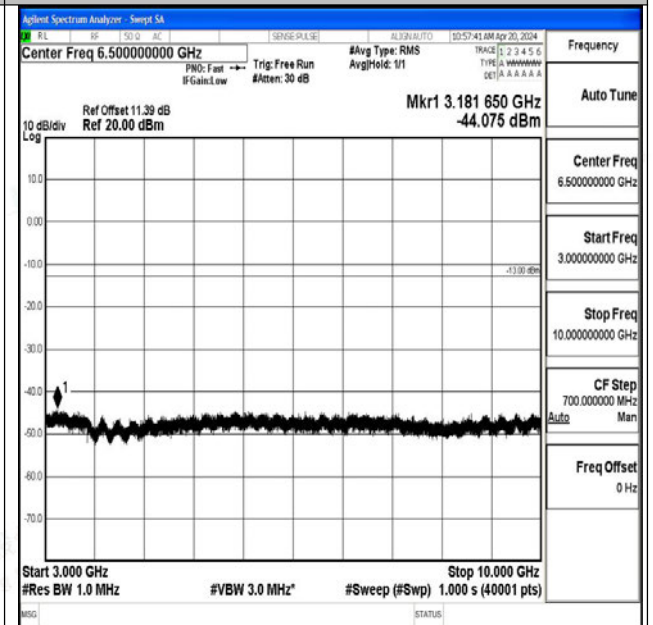
Band13_10MHz_16QAM_23230_1RB#0_0.15~30_0.15~30



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

