

Appendix Test Data for LTE Band 13 (Conducted Measurement)

Product Name: 4G Mobile Phone

Trade Mark: AGM

Test Model: M10

FCC ID: 2A3DR-M10

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: RF output power

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.50	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.81	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.50	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.78	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.54	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.09	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.11	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.08	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.11	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.11	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.27	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.16	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.47	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.67	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.82	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.69	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.83	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.66	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.91	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.12	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.26	PASS

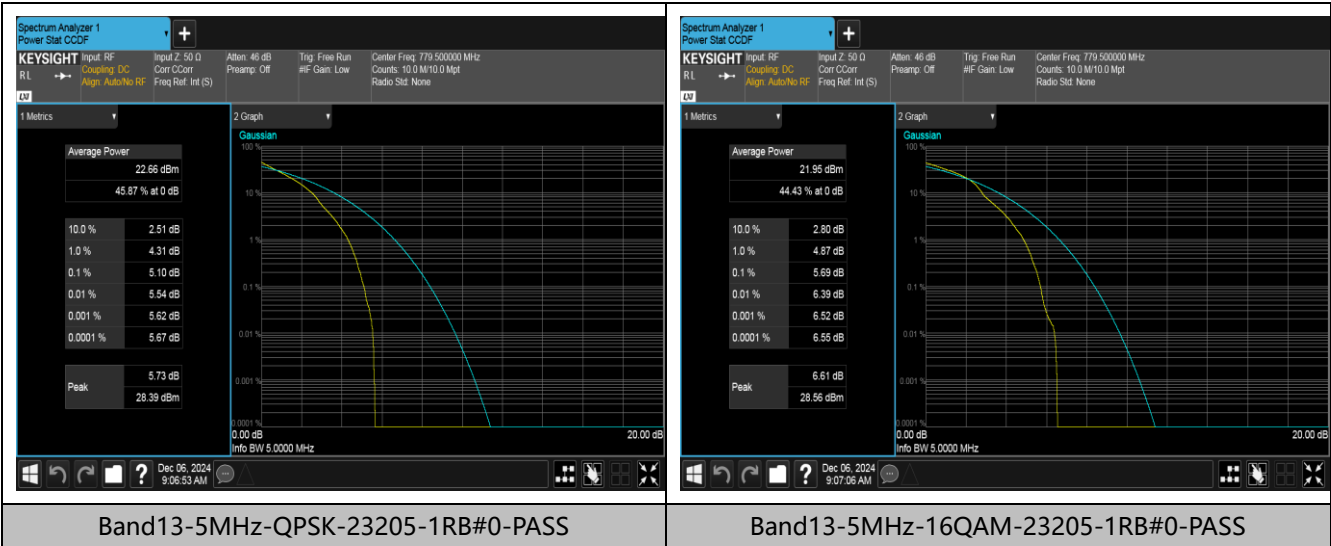
Band13	5MHz	QPSK	23230	12RB#6	22.13	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.26	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.18	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.17	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.07	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.13	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.74	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.98	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.67	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.88	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.80	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.01	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.13	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.23	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.13	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.23	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.23	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.45	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.04	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.27	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.53	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.80	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.71	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.80	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.73	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.85	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.24	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.30	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.25	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.31	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.24	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.29	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.13	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.42	PASS

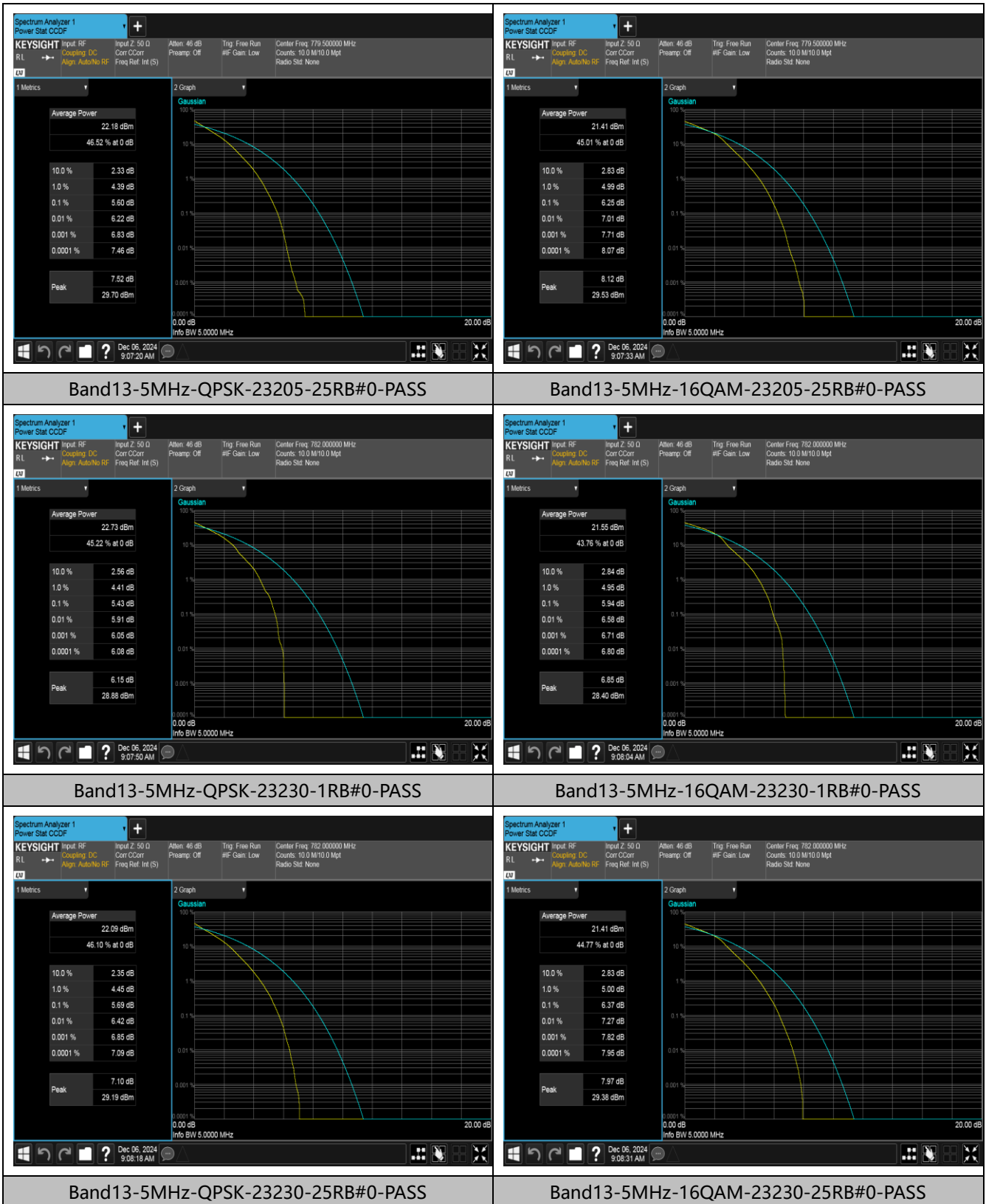
Appendix B: Peak-to-Average Ratio (CCDF)

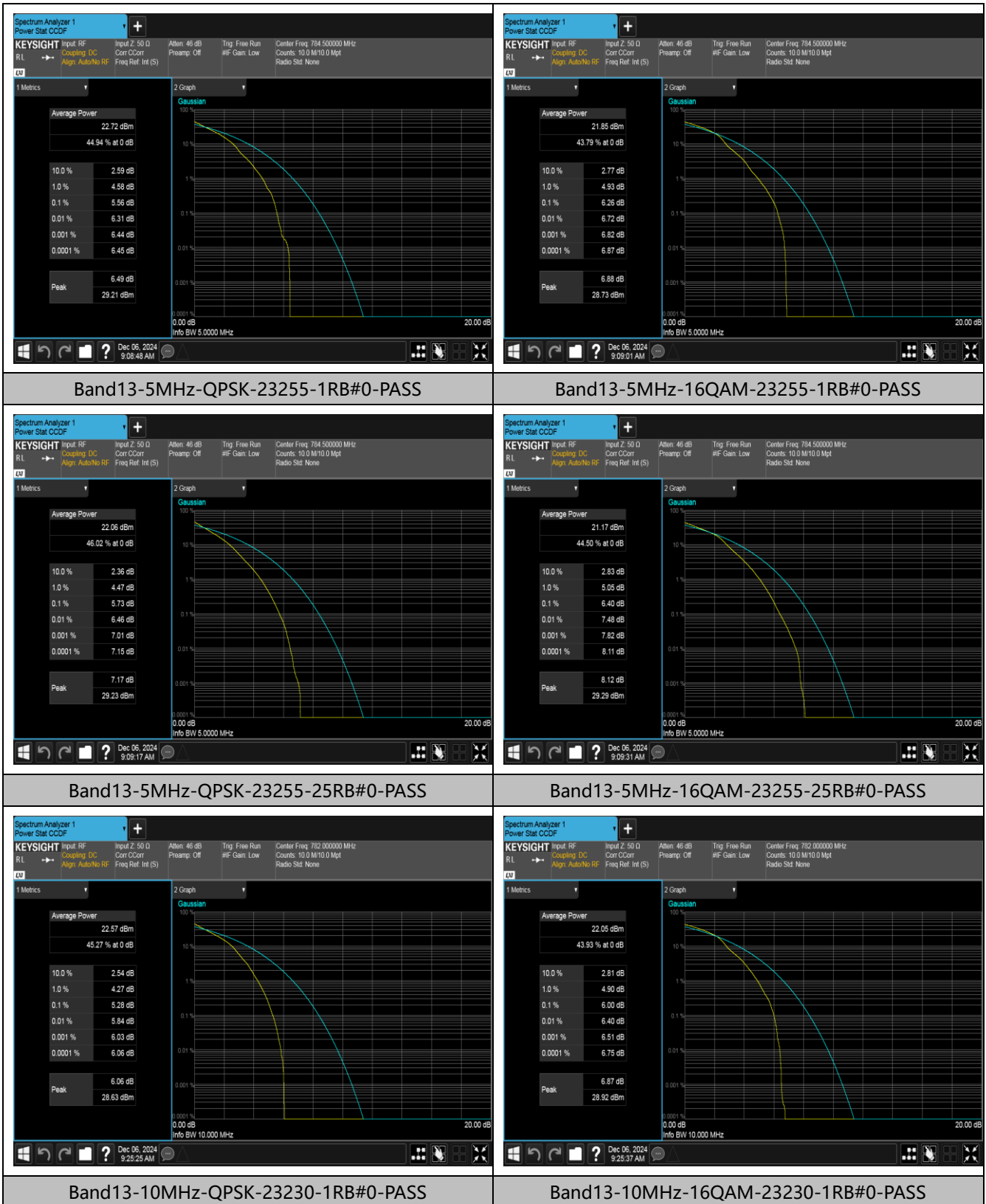
Test Result

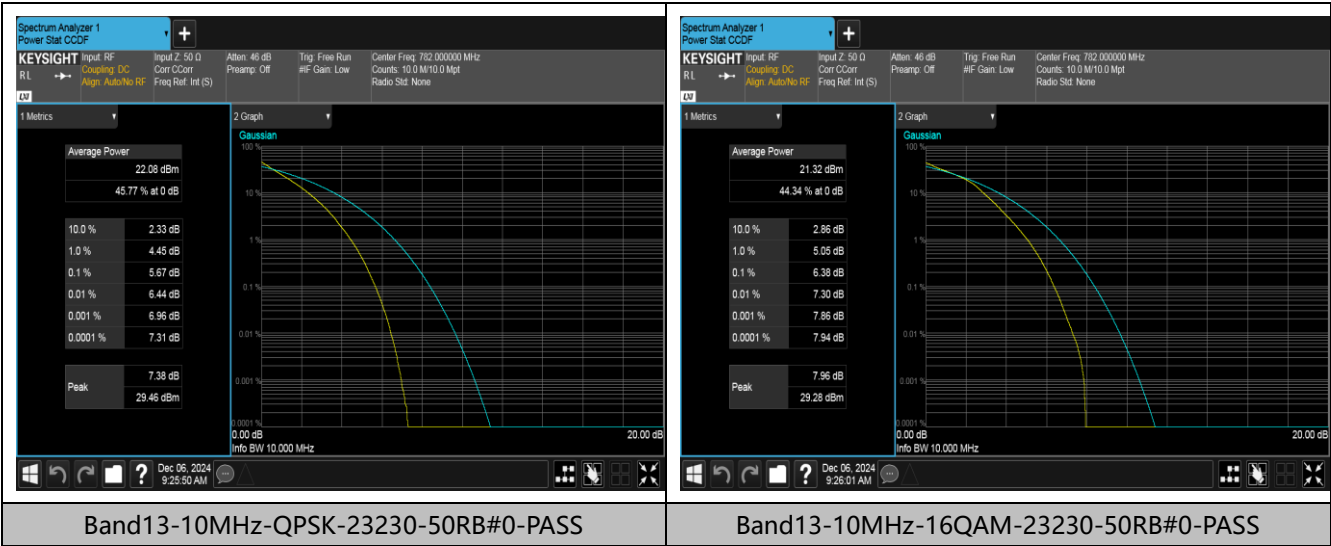
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	5.10	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.69	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.60	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.25	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	5.43	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.94	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.69	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.37	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.56	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	6.26	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.73	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.40	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	5.28	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	6.00	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.67	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.38	13	PASS

Test Graphs







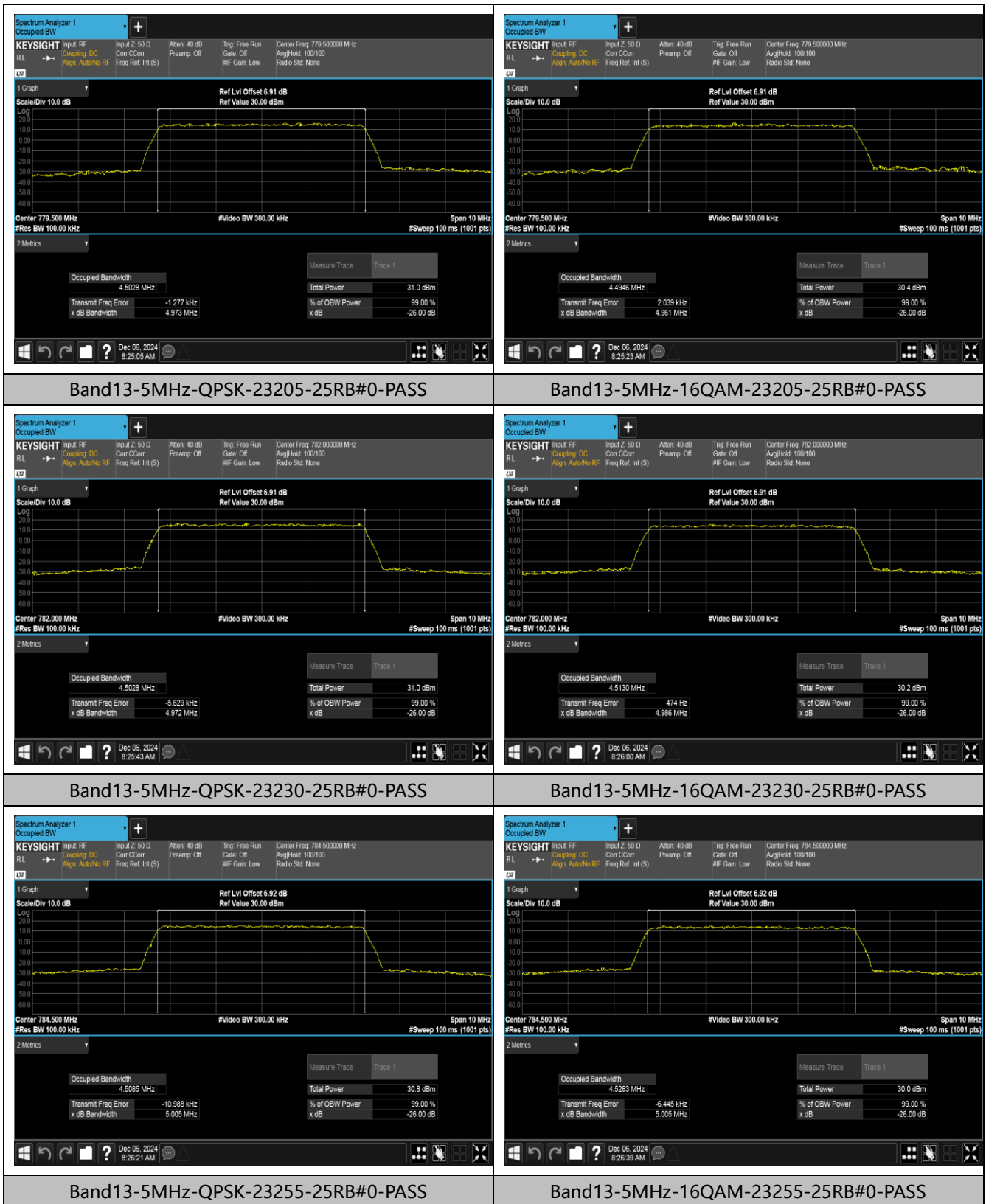


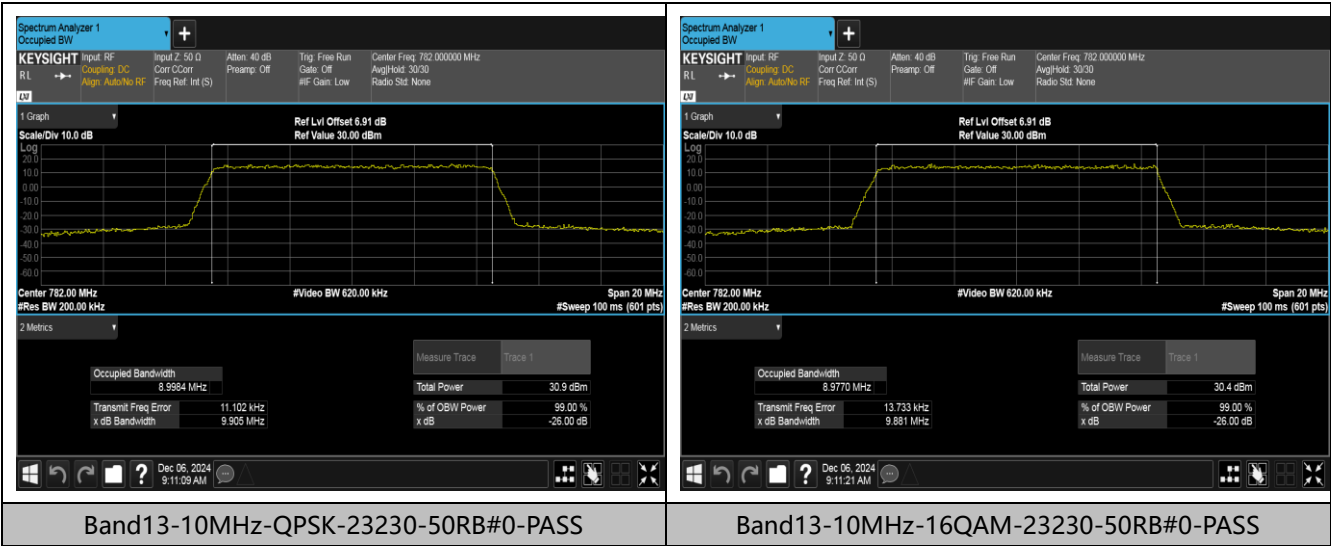
Appendix C: Occupied bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5028	4.973	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4946	4.961	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5028	4.972	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5130	4.986	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5085	5.005	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5263	5.005	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9984	9.905	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9770	9.881	PASS

Test Graphs





Spectrum Analyzer 1
Occupied BW

KEYSIGHT

Input RF
R/L

Input Z: 50 Ω
Coupling: DC
Align: Auto/No RF

Atten: 40 dB
Presamp: Off

Trig: Free Run
Gate: Off
Ref: Gain: Low

Center Freq: 762.000000 MHz
AgtHold: 30.00
Radio Std: None

1 Graph

Scale/Div 10.0 dB

Log

Ref Lvl Offset 6.91 dB
Ref Value 30.00 dBm

Center 762.00 MHz
#Res BW 200.00 kHz
#Video BW 620.00 kHz
Span 20 MHz
#Sweep 100 ms (601 pts)

2 Metrics

Measure Trace

Trace 1

Occupied Bandwidth
8.9770 MHz

Transmit Freq Error
x dB Bandwidth
13.733 kHz
9.881 MHz

Total Power
30.4 dBm

% of OBW Power
x dB
99.00 %
-26.00 dB

Dec 06, 2024
9:11:21 AM

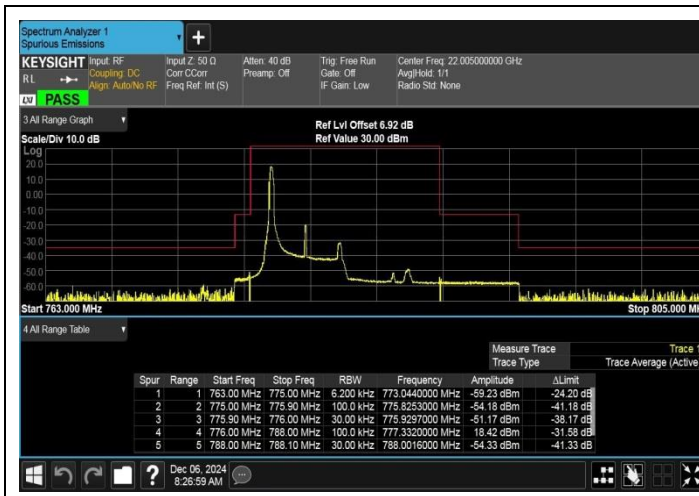
Band13-10MHz-16QAM-23230-50RB#0-PASS

Appendix D: Band edge emissions

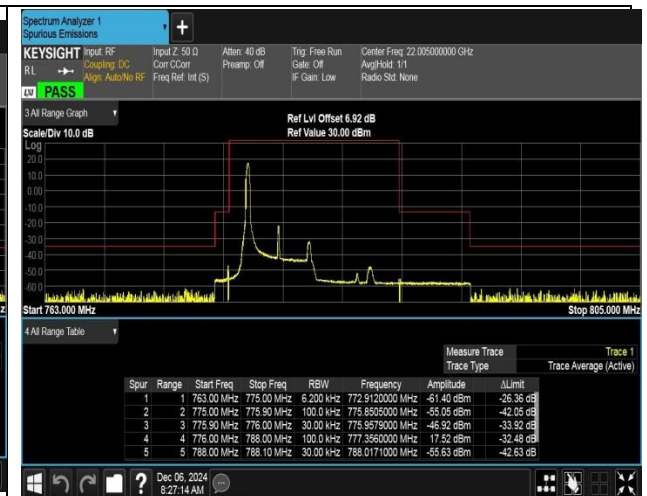
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-59.23	PASS
Band13	5MHz	16QAM	23205	1RB#0	-61.40	PASS
Band13	5MHz	QPSK	23205	1RB#24	-53.92	PASS
Band13	5MHz	16QAM	23205	1RB#24	-56.32	PASS
Band13	5MHz	QPSK	23205	25RB#0	-52.51	PASS
Band13	5MHz	16QAM	23205	25RB#0	-51.72	PASS
Band13	5MHz	QPSK	23255	1RB#0	-60.31	PASS
Band13	5MHz	16QAM	23255	1RB#0	-61.18	PASS
Band13	5MHz	QPSK	23255	1RB#24	-60.47	PASS
Band13	5MHz	16QAM	23255	1RB#24	-61.45	PASS
Band13	5MHz	QPSK	23255	25RB#0	-55.13	PASS
Band13	5MHz	16QAM	23255	25RB#0	-58.57	PASS
Band13	10MHz	QPSK	23230	1RB#0	-54.91	PASS
Band13	10MHz	16QAM	23230	1RB#0	-51.27	PASS
Band13	10MHz	QPSK	23230	1RB#49	-59.06	PASS
Band13	10MHz	16QAM	23230	1RB#49	-61.48	PASS
Band13	10MHz	QPSK	23230	50RB#0	-51.62	PASS
Band13	10MHz	16QAM	23230	50RB#0	-50.90	PASS

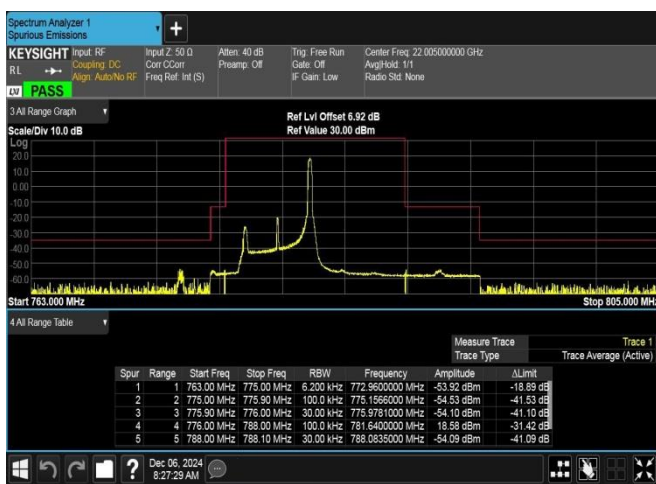
Test Graphs



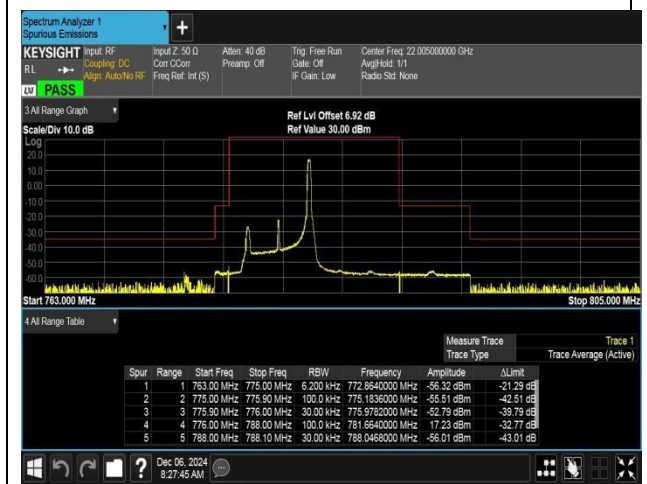
Band13_5MHz_QPSK_23205_1RB#0



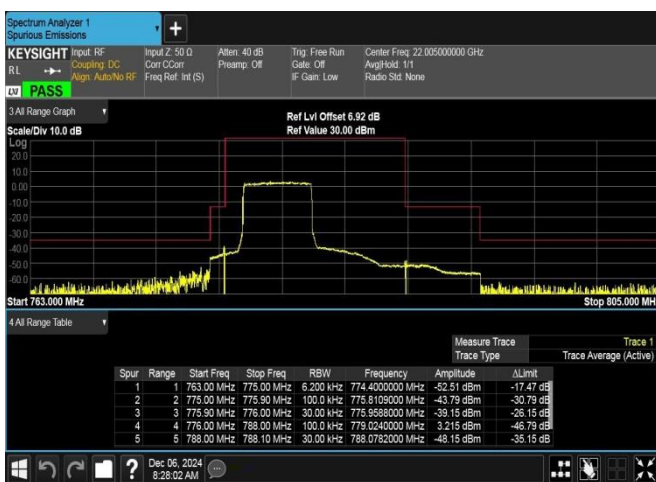
Band13_5MHz_16QAM_23205_1RB#0



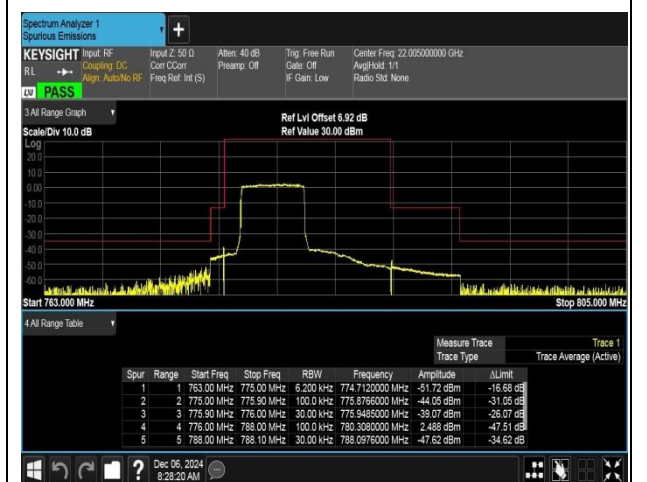
Band13_5MHz_QPSK_23205_1RB#24



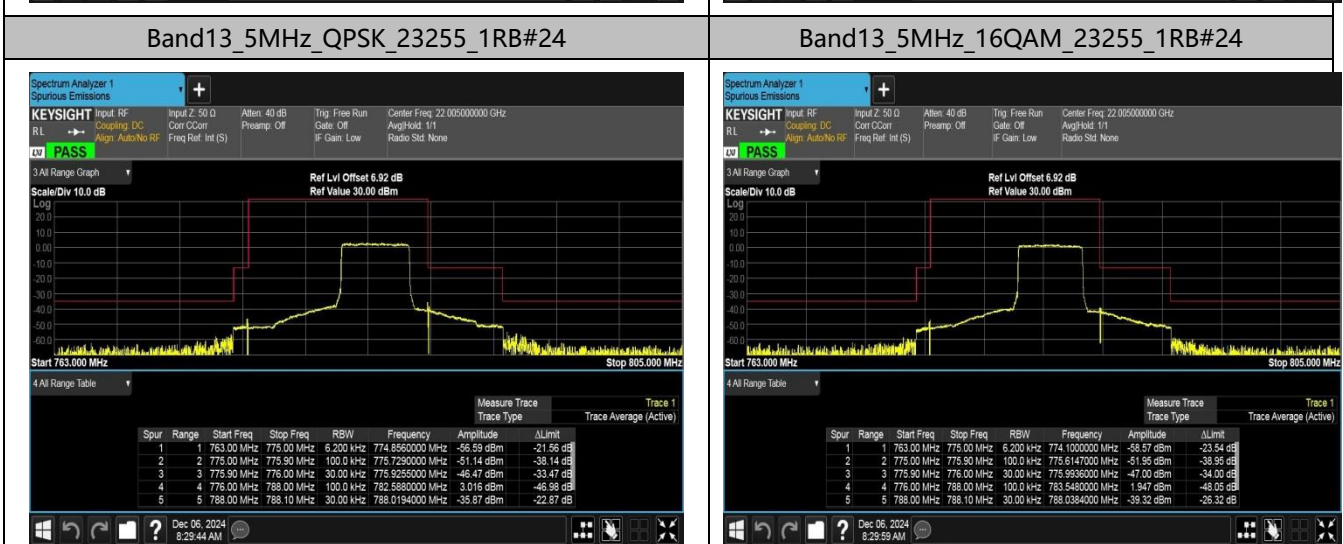
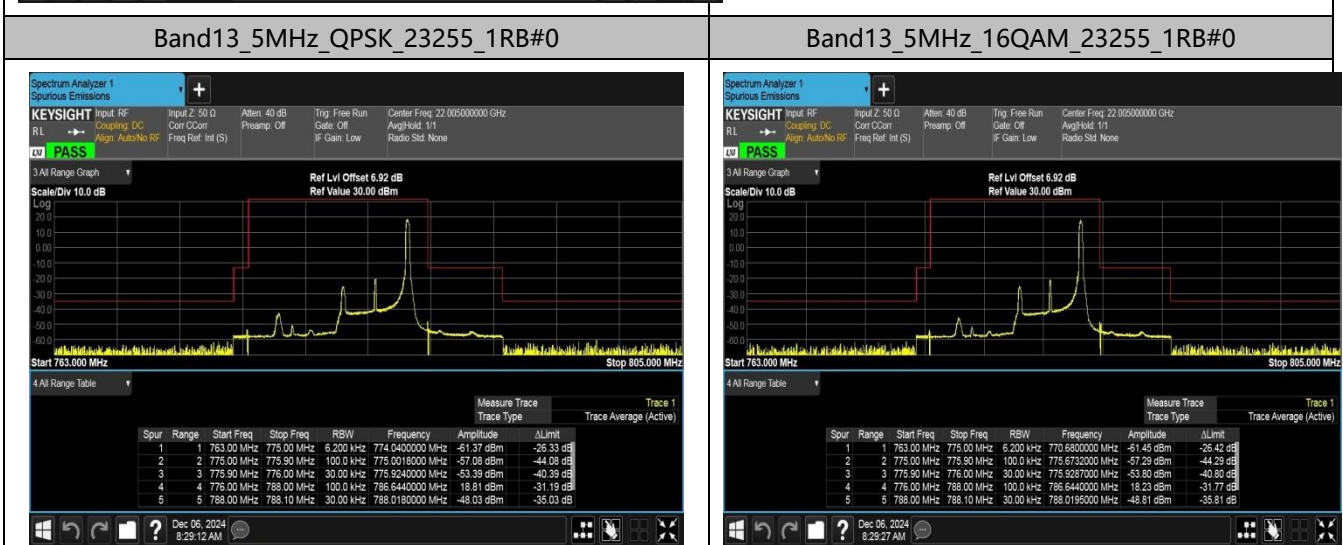
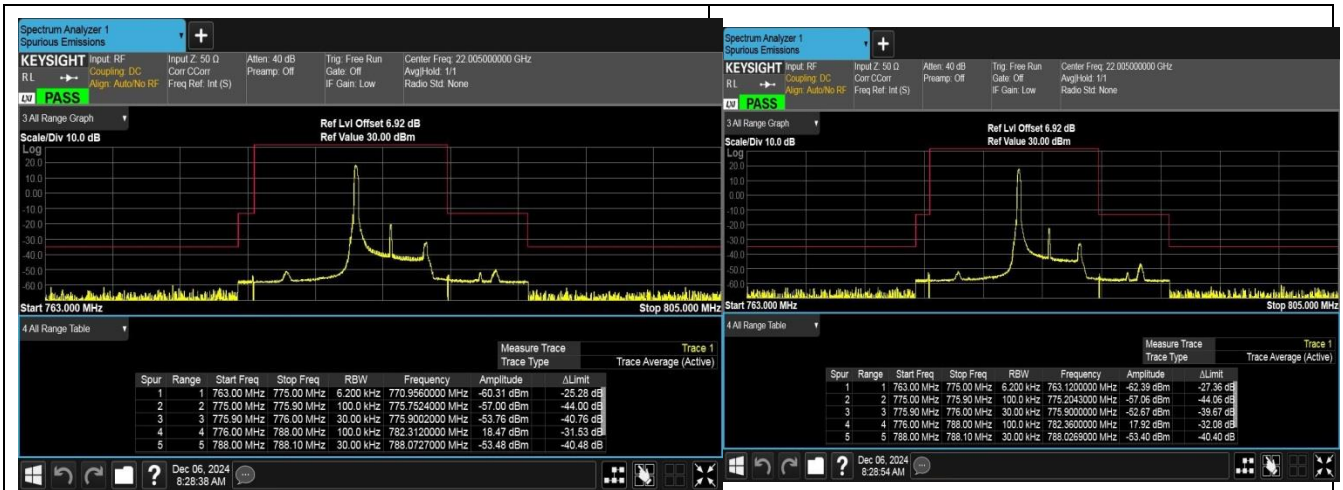
Band13_5MHz_16QAM_23205_1RB#24

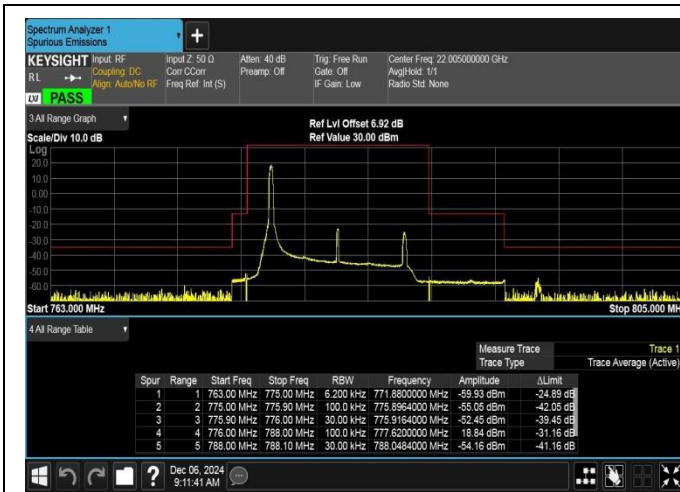


Band13_5MHz_QPSK_23205_25RB#0

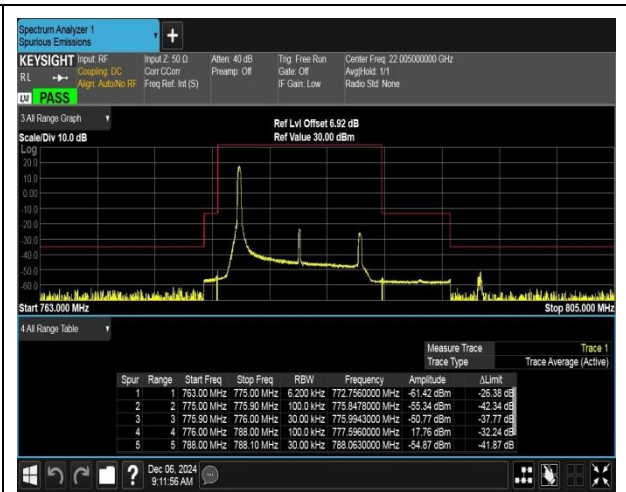


Band13_5MHz_16QAM_23205_25RB#0

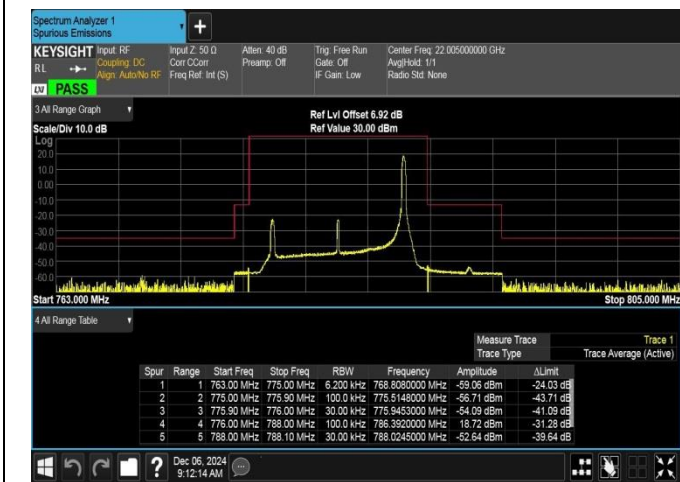




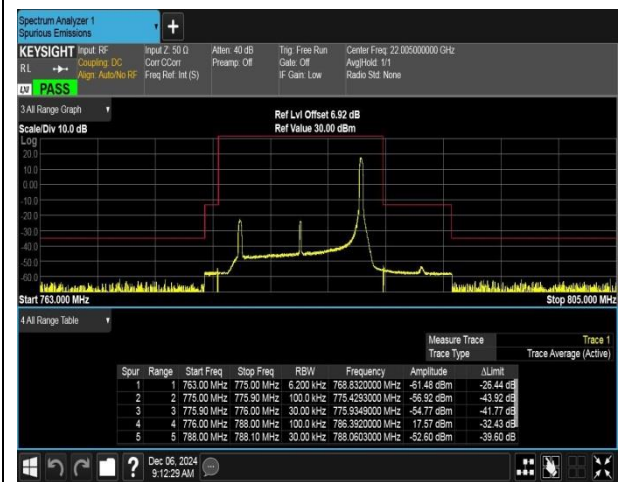
Band13_10MHz_QPSK_23230_1RB#0



Band13_10MHz_16QAM_23230_1RB#0



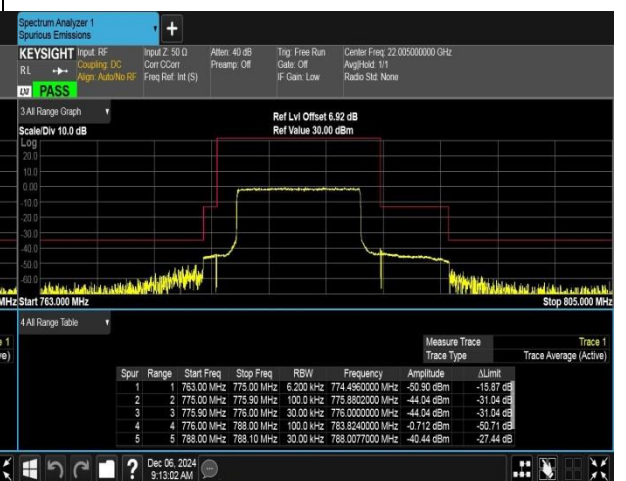
Band13_10MHz_QPSK_23230_1RB#49



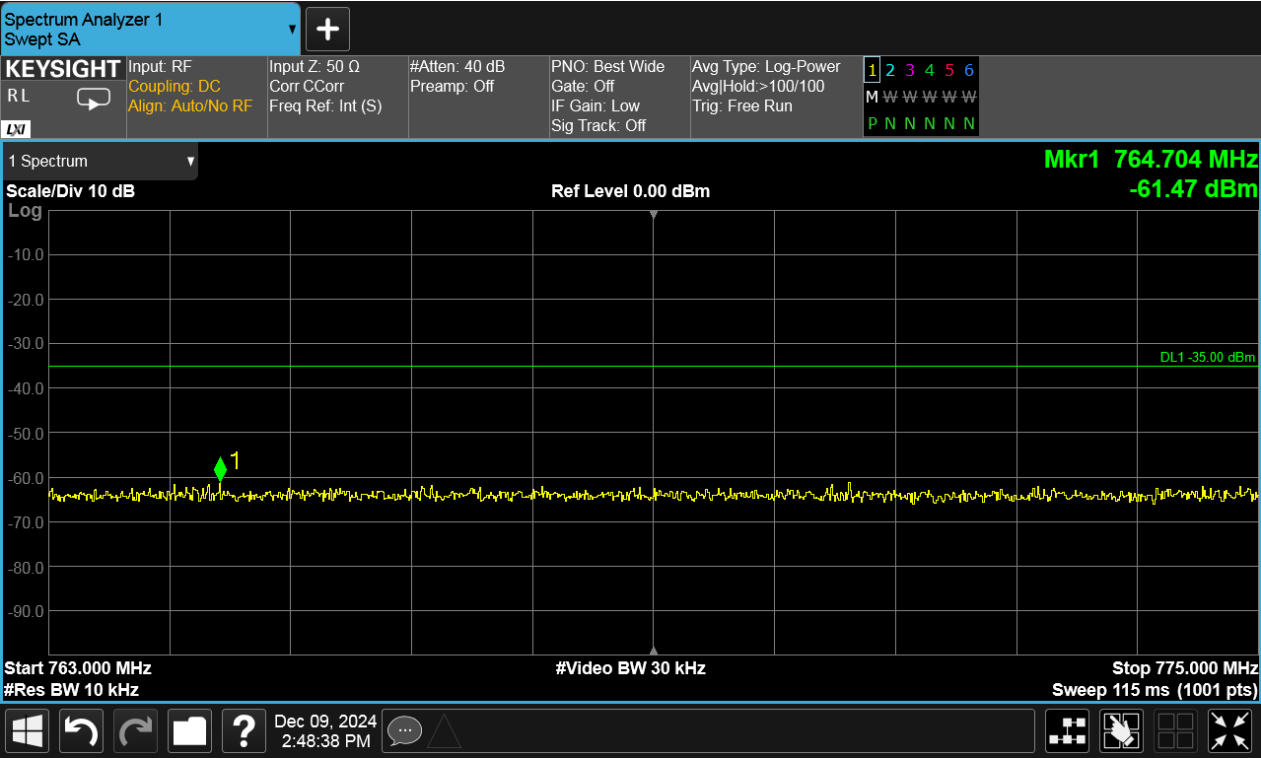
Band13_10MHz_16QAM_23230_1RB#49



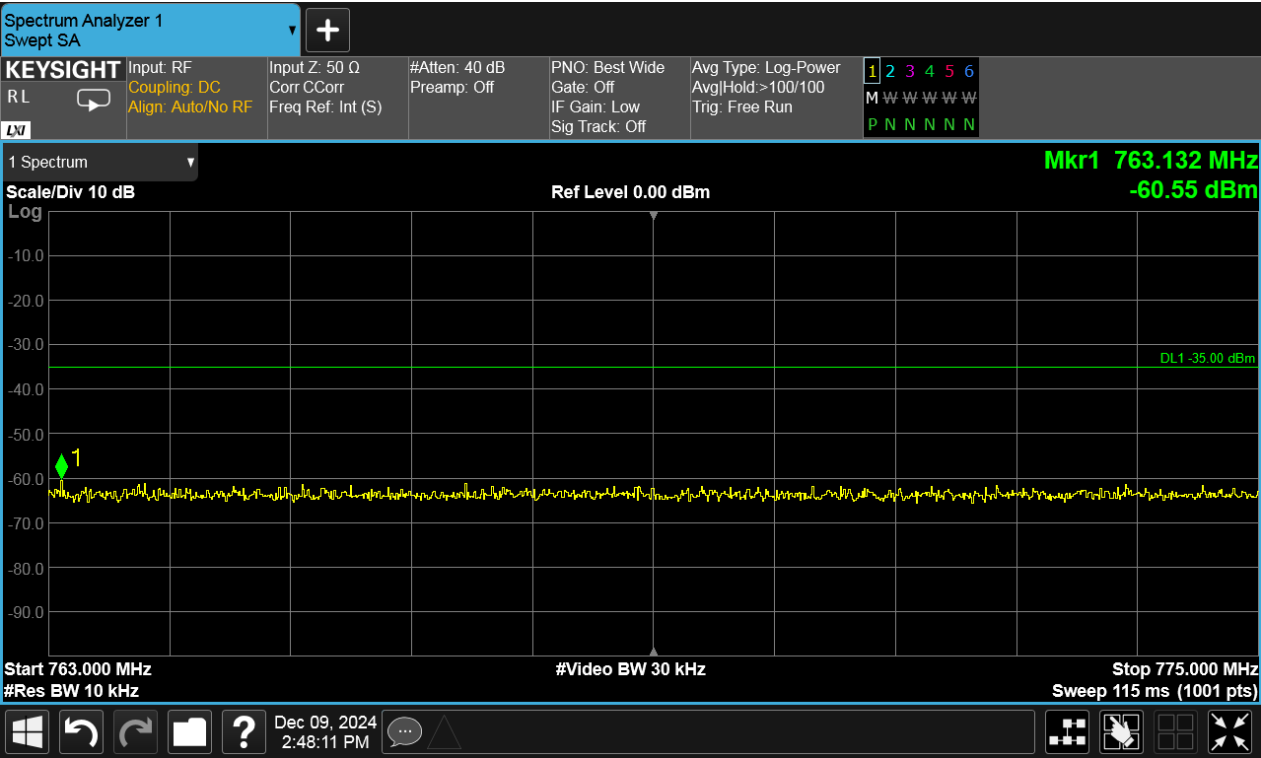
Band13_10MHz_QPSK_23230_50RB#0



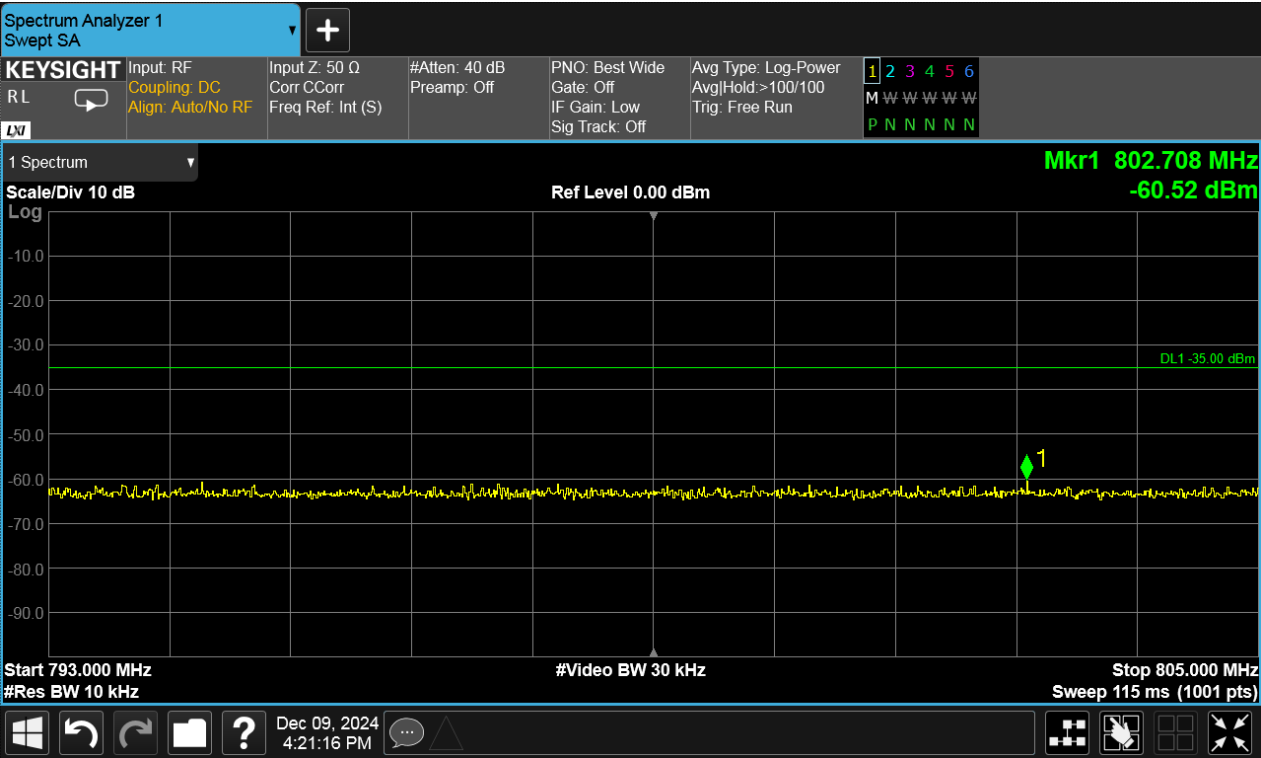
Band13_10MHz_16QAM_23230_50RB#0



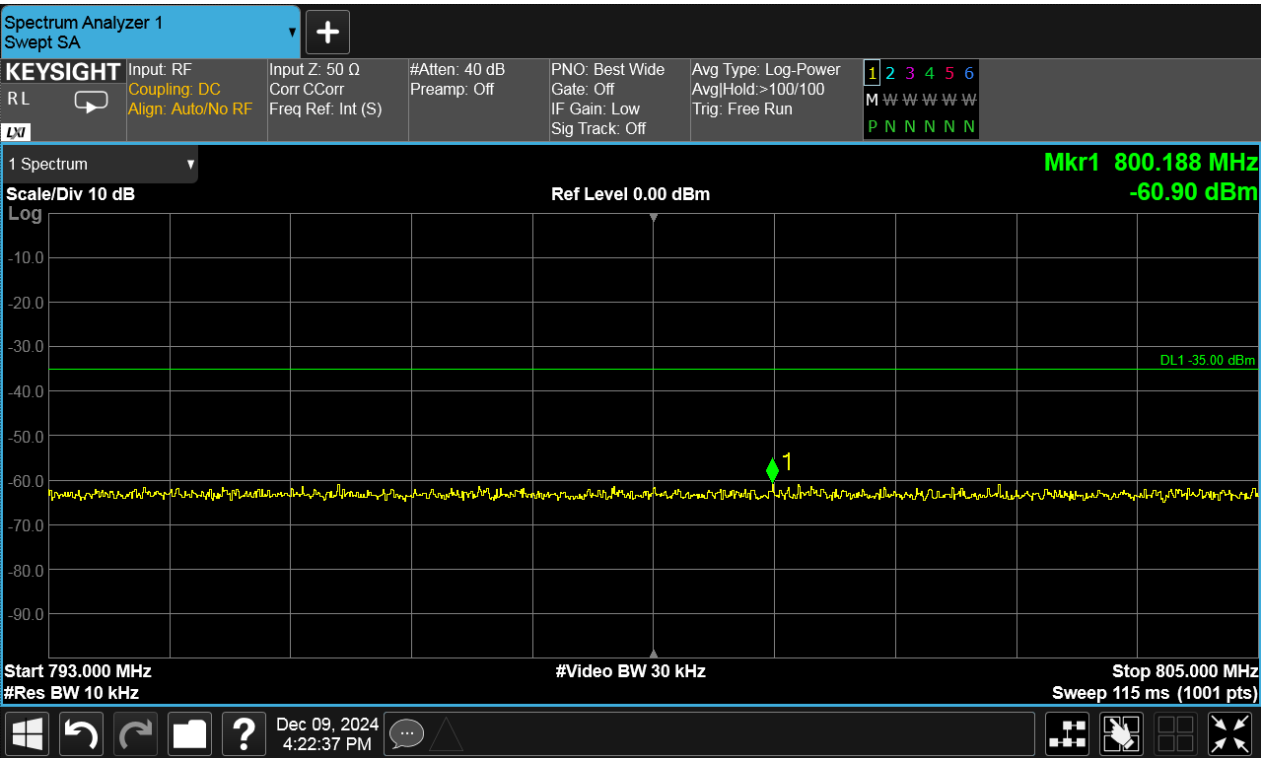
Upper Emission Mask(763 MHz ~775MHz)-16QAM-25RB#0



Upper Emission Mask(793 MHz ~805MHz)-QPSK-25RB#0



Upper Emission Mask(793 MHz ~805MHz)-16QAM-25RB#0



Appendix E: Unwanted spurious emissions at antenna terminals

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-55.65	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-58.73	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-56.39	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-46.19	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-45.59	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-54.23	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-61.22	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-54.28	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-46.35	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-45.23	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.009~0.15	-56.28	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.15~30	-60.55	PASS
Band13	5MHz	QPSK	23205	1RB#24	30~1000	-55.68	PASS
Band13	5MHz	QPSK	23205	1RB#24	1000~3000	-45.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	3000~10000	-45.38	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.009~0.15	-52.65	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.15~30	-60.70	PASS
Band13	5MHz	16QAM	23205	1RB#24	30~1000	-54.88	PASS
Band13	5MHz	16QAM	23205	1RB#24	1000~3000	-42.97	PASS
Band13	5MHz	16QAM	23205	1RB#24	3000~10000	-45.42	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.009~0.15	-55.01	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.15~30	-59.51	PASS
Band13	5MHz	QPSK	23205	25RB#0	30~1000	-54.02	PASS
Band13	5MHz	QPSK	23205	25RB#0	1000~3000	-48.40	PASS
Band13	5MHz	QPSK	23205	25RB#0	3000~10000	-45.45	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.009~0.15	-53.58	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.15~30	-59.84	PASS
Band13	5MHz	16QAM	23205	25RB#0	30~1000	-55.59	PASS
Band13	5MHz	16QAM	23205	25RB#0	1000~3000	-46.85	PASS
Band13	5MHz	16QAM	23205	25RB#0	3000~10000	-45.37	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-54.53	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-60.82	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-54.25	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-46.16	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-45.43	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-52.32	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-60.62	PASS

Band13	5MHz	16QAM	23230	1RB#0	30~1000	-53.63	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-47.59	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-45.66	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.009~0.15	-51.32	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.15~30	-58.13	PASS
Band13	5MHz	QPSK	23230	1RB#24	30~1000	-53.08	PASS
Band13	5MHz	QPSK	23230	1RB#24	1000~3000	-47.48	PASS
Band13	5MHz	QPSK	23230	1RB#24	3000~10000	-45.41	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.009~0.15	-55.83	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.15~30	-58.38	PASS
Band13	5MHz	16QAM	23230	1RB#24	30~1000	-53.14	PASS
Band13	5MHz	16QAM	23230	1RB#24	1000~3000	-43.58	PASS
Band13	5MHz	16QAM	23230	1RB#24	3000~10000	-45.32	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.009~0.15	-56.13	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.15~30	-59.47	PASS
Band13	5MHz	QPSK	23230	25RB#0	30~1000	-51.81	PASS
Band13	5MHz	QPSK	23230	25RB#0	1000~3000	-47.43	PASS
Band13	5MHz	QPSK	23230	25RB#0	3000~10000	-45.50	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.009~0.15	-54.27	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.15~30	-62.11	PASS
Band13	5MHz	16QAM	23230	25RB#0	30~1000	-53.11	PASS
Band13	5MHz	16QAM	23230	25RB#0	1000~3000	-46.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	3000~10000	-45.56	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-56.22	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-61.72	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-53.88	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-41.97	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-45.08	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-55.42	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-60.81	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-51.78	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-46.05	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-45.11	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.009~0.15	-53.82	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.15~30	-59.38	PASS
Band13	5MHz	QPSK	23255	1RB#24	30~1000	-53.16	PASS
Band13	5MHz	QPSK	23255	1RB#24	1000~3000	-43.81	PASS
Band13	5MHz	QPSK	23255	1RB#24	3000~10000	-45.47	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.009~0.15	-54.49	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.15~30	-61.87	PASS
Band13	5MHz	16QAM	23255	1RB#24	30~1000	-52.66	PASS
Band13	5MHz	16QAM	23255	1RB#24	1000~3000	-46.48	PASS
Band13	5MHz	16QAM	23255	1RB#24	3000~10000	-45.32	PASS

Band13	5MHz	QPSK	23255	25RB#0	0.009~0.15	-51.50	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.15~30	-60.90	PASS
Band13	5MHz	QPSK	23255	25RB#0	30~1000	-52.69	PASS
Band13	5MHz	QPSK	23255	25RB#0	1000~3000	-48.45	PASS
Band13	5MHz	QPSK	23255	25RB#0	3000~10000	-45.30	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.009~0.15	-53.89	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.15~30	-61.41	PASS
Band13	5MHz	16QAM	23255	25RB#0	30~1000	-53.20	PASS
Band13	5MHz	16QAM	23255	25RB#0	1000~3000	-48.28	PASS
Band13	5MHz	16QAM	23255	25RB#0	3000~10000	-45.61	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-52.23	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-60.94	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-63.26	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-46.65	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-44.76	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-53.72	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-60.10	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-63.48	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-46.94	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-45.05	PASS
Band13	10MHz	QPSK	23230	1RB#49	0.009~0.15	-55.18	PASS
Band13	10MHz	QPSK	23230	1RB#49	0.15~30	-59.65	PASS
Band13	10MHz	QPSK	23230	1RB#49	30~1000	-63.36	PASS
Band13	10MHz	QPSK	23230	1RB#49	1000~3000	-42.45	PASS
Band13	10MHz	QPSK	23230	1RB#49	3000~10000	-45.37	PASS
Band13	10MHz	16QAM	23230	1RB#49	0.009~0.15	-56.05	PASS
Band13	10MHz	16QAM	23230	1RB#49	0.15~30	-57.27	PASS
Band13	10MHz	16QAM	23230	1RB#49	30~1000	-62.97	PASS
Band13	10MHz	16QAM	23230	1RB#49	1000~3000	-46.56	PASS
Band13	10MHz	16QAM	23230	1RB#49	3000~10000	-45.45	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.009~0.15	-55.74	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.15~30	-60.58	PASS
Band13	10MHz	QPSK	23230	50RB#0	30~1000	-63.46	PASS
Band13	10MHz	QPSK	23230	50RB#0	1000~3000	-48.47	PASS
Band13	10MHz	QPSK	23230	50RB#0	3000~10000	-45.11	PASS
Band13	10MHz	16QAM	23230	50RB#0	0.009~0.15	-56.29	PASS
Band13	10MHz	16QAM	23230	50RB#0	0.15~30	-59.79	PASS
Band13	10MHz	16QAM	23230	50RB#0	30~1000	-63.20	PASS
Band13	10MHz	16QAM	23230	50RB#0	1000~3000	-48.22	PASS
Band13	10MHz	16QAM	23230	50RB#0	3000~10000	-45.38	PASS

Test Graphs

