Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.97	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.22	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.10	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.04	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.03	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.04	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.09	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.10	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.24	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.07	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.15	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.15	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.14	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.20	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.10	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.24	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.14	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.00	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.04	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.14	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.10	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.98	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.21	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.09	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.14	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.15	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.16	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.15	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.27	PASS

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Band13	5MHz	16QAM	23230	1RB#12	22.37	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.28	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.22	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.20	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.19	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.25	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.05	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.24	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.07	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.05	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.09	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.14	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.13	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.99	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.24	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.07	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.19	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.23	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.31	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.27	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.15	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.43	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.21	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.22	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.24	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.25	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.23	PASS

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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	4.56	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.62	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	5.50	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.80	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.67	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.17	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.33	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	6.10	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.42	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	6.15	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.28	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.61	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.59	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.40	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.31	13	PASS

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Test Graphs

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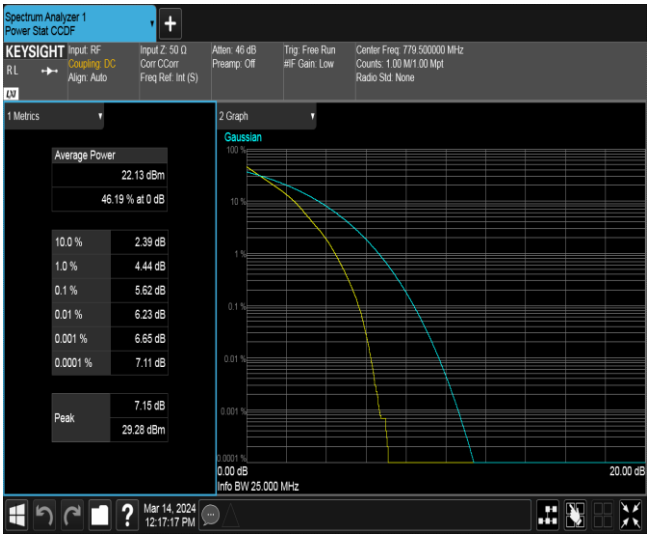
Band13-5MHz-QPSK-23205-25RB#0

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

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

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

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

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

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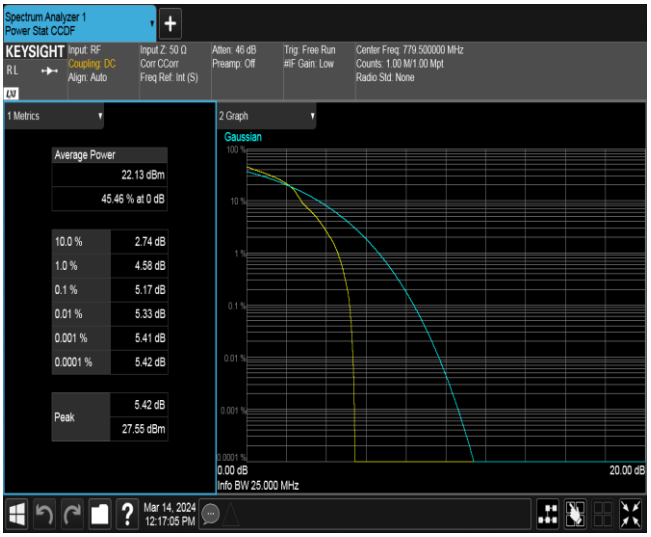

Band13-5MHz-16QAM-23205-25RB#0

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

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

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

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

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

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

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

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

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Appendix C: 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	4.5051	4.987	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5077	4.983	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5099	4.959	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5079	4.933	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5085	5.005	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5079	4.920	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9968	9.625	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9914	9.587	PASS

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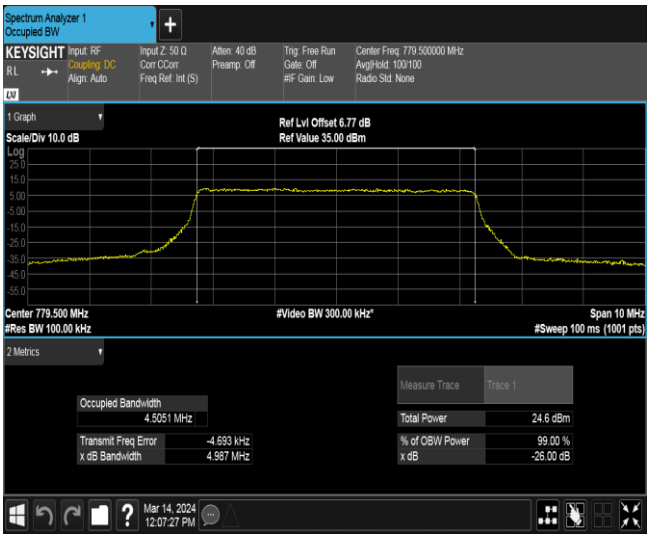
Test Graphs

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

Band13-5MHz-QPSK-23230-25RB#0
Band13-5MHz-QPSK-23255-25RB#0

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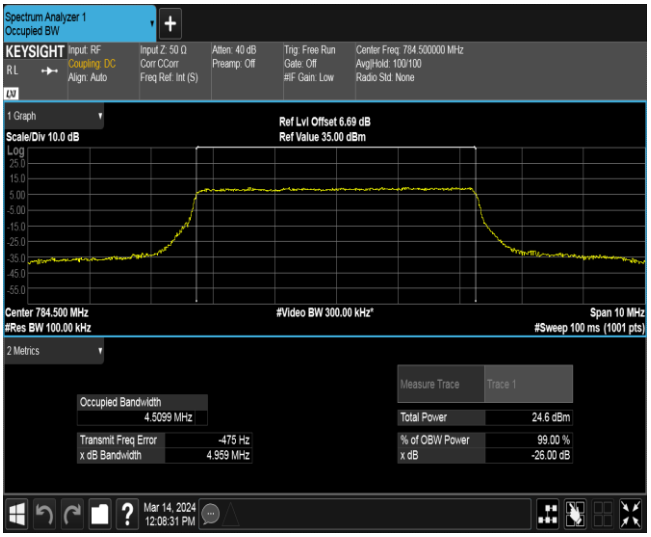

Band13-5MHz-16QAM-23205-25RB#0

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

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

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

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

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Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-13.64	PASS
Band13	5MHz	QPSK	23205	1RB#24	-40.35	PASS
Band13	5MHz	QPSK	23205	25RB#0	-25.02	PASS
Band13	5MHz	QPSK	23255	1RB#0	-48.76	PASS
Band13	5MHz	QPSK	23255	1RB#24	-14.68	PASS
Band13	5MHz	QPSK	23255	25RB#0	-25.87	PASS
Band13	5MHz	16QAM	23205	1RB#0	-14.55	PASS
Band13	5MHz	16QAM	23205	1RB#24	-48.61	PASS
Band13	5MHz	16QAM	23205	25RB#0	-25.87	PASS
Band13	5MHz	16QAM	23255	1RB#0	-39.73	PASS
Band13	5MHz	16QAM	23255	1RB#24	-14.51	PASS
Band13	5MHz	16QAM	23255	25RB#0	-26.82	PASS
Band13	10MHz	QPSK	23230	1RB#0	-17.78,-47.62	PASS
Band13	10MHz	QPSK	23230	1RB#49	-48.89,-18.42	PASS
Band13	10MHz	QPSK	23230	50RB#0	-29.58,-31.08	PASS
Band13	10MHz	16QAM	23230	1RB#0	-15.95,-49.07	PASS
Band13	10MHz	16QAM	23230	1RB#49	-48.94,-18.25	PASS
Band13	10MHz	16QAM	23230	50RB#0	-32.65,-31.91	PASS

Test Graphs

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

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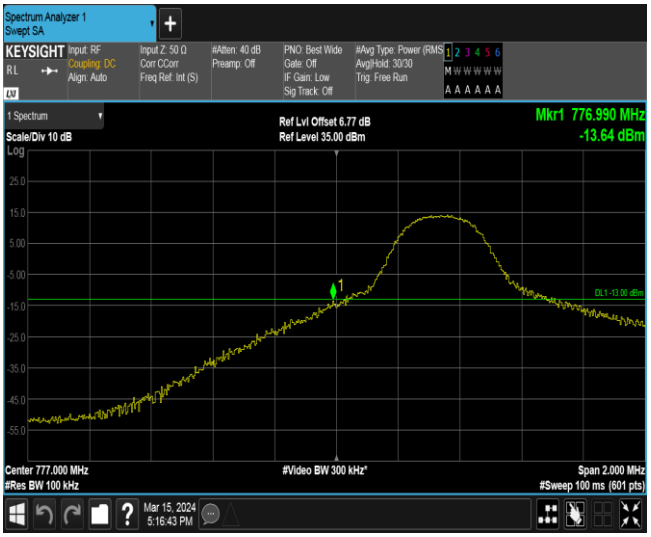
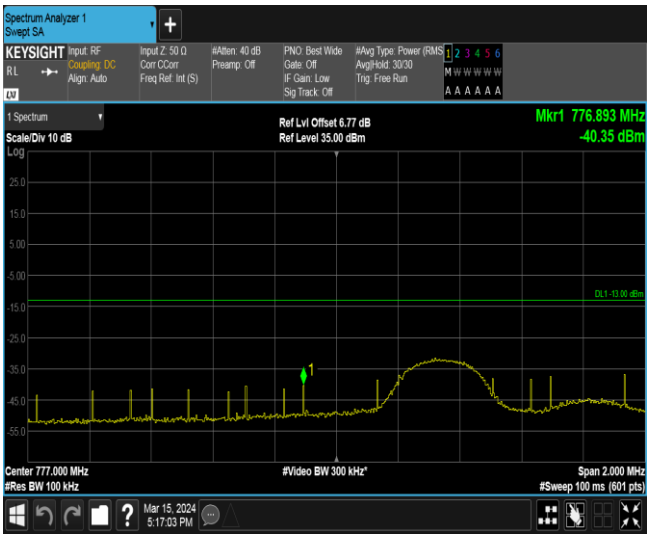


Band13-5MHz-QPSK-23205-1RB#24



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

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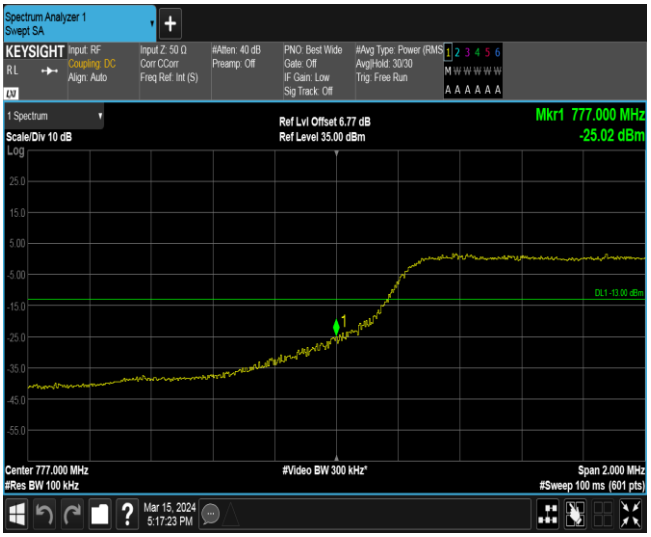

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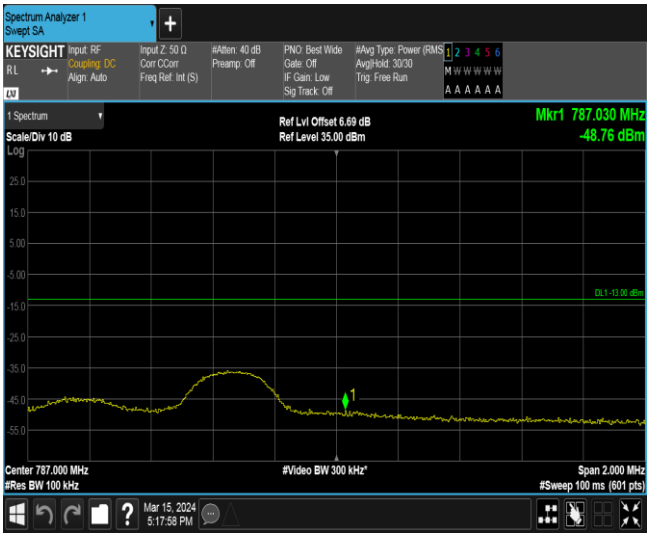

Band13-5MHz-QPSK-23255-1RB#24

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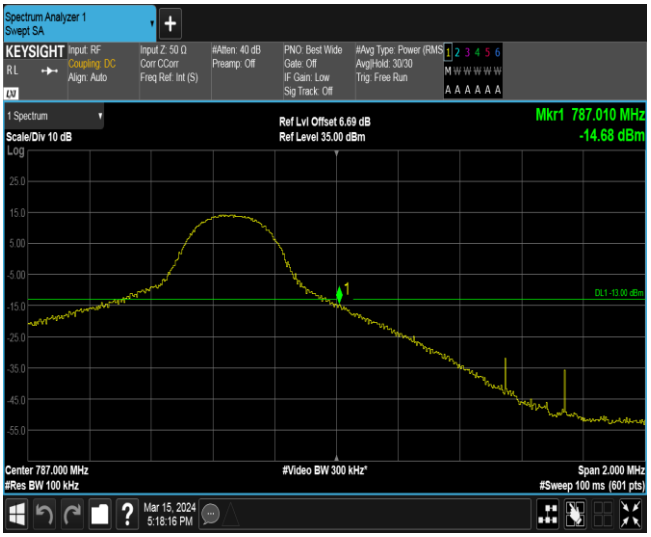

Band13-5MHz-QPSK-23255-25RB#0

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

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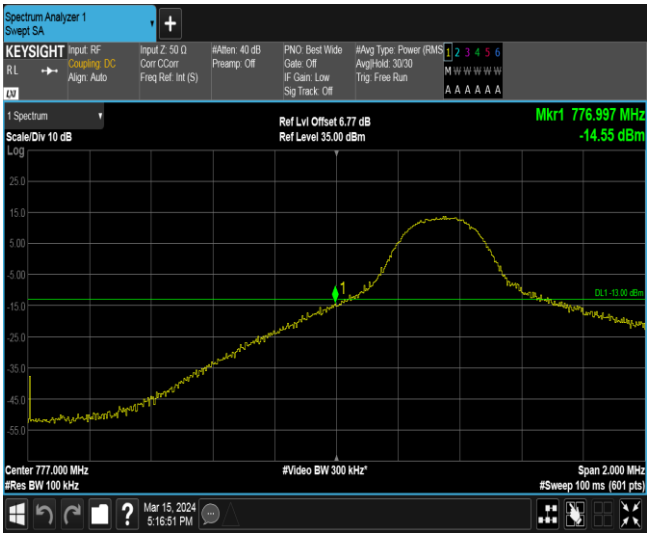

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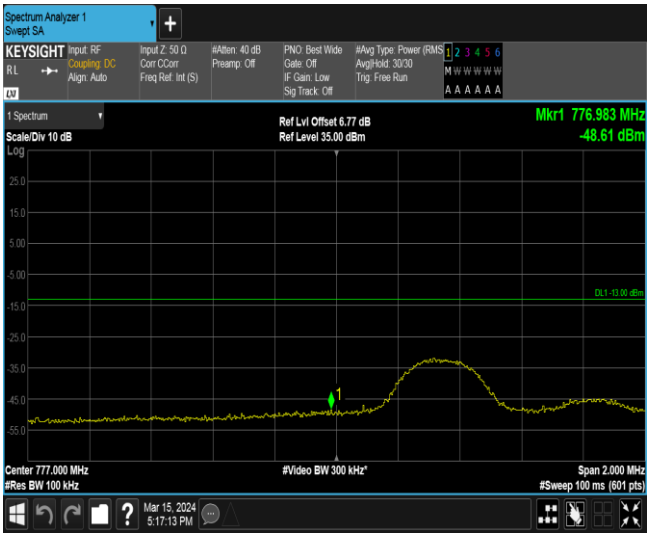

Band13-5MHz-16QAM-23205-25RB#0

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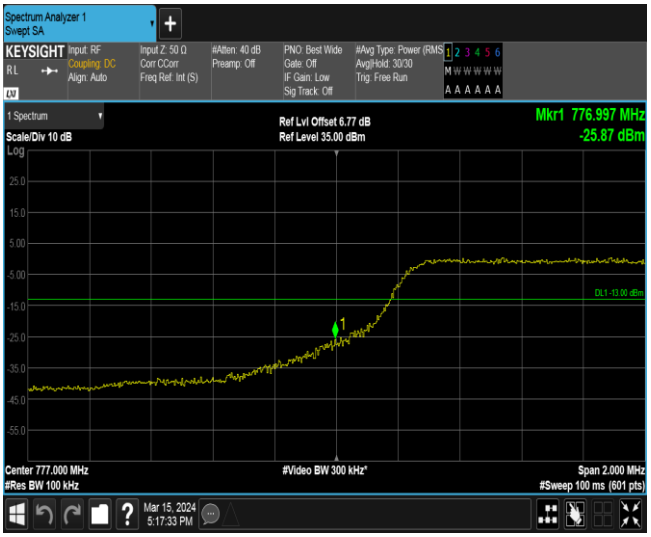

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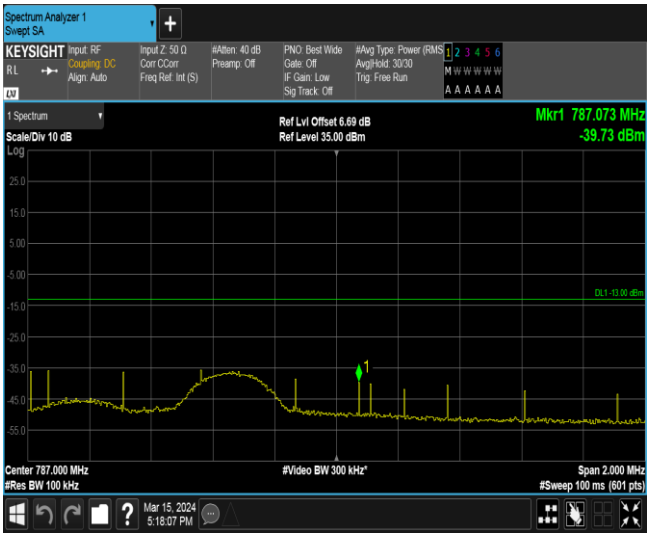

Band13-5MHz-16QAM-23255-1RB#24

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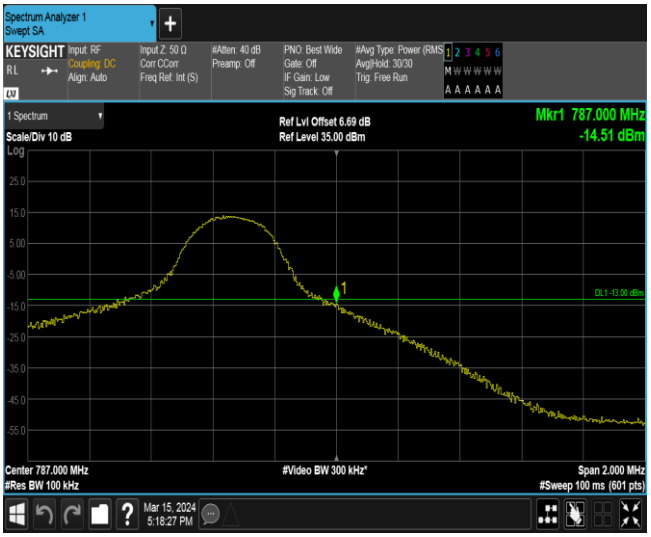

Band13-5MHz-16QAM-23255-25RB#0

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

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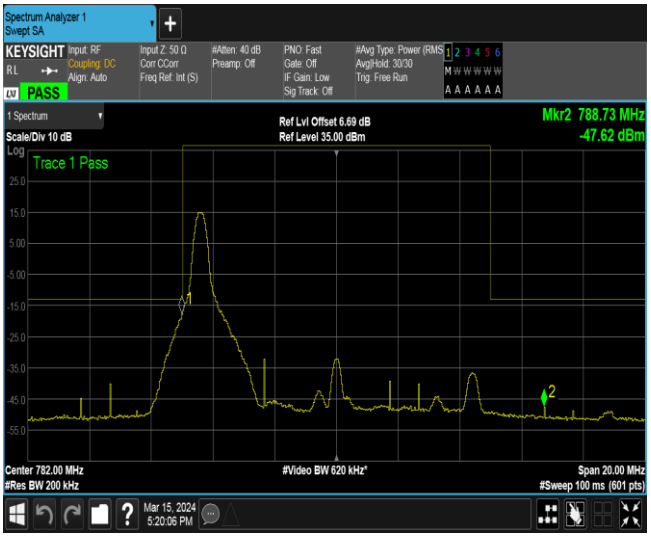
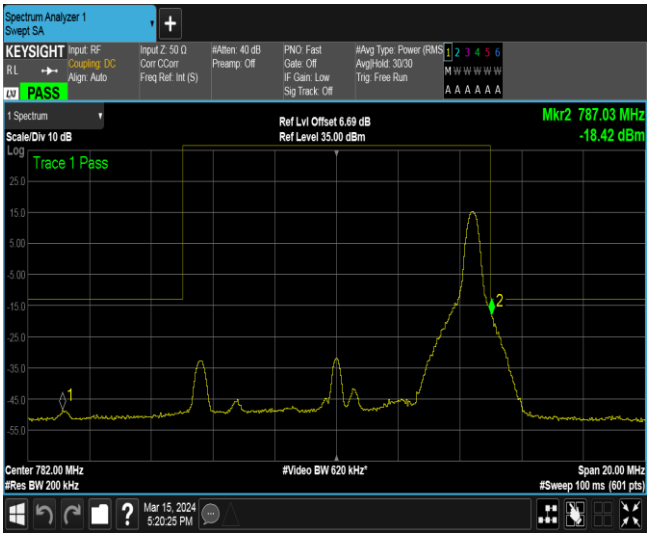


Band13-10MHz-QPSK-23230-1RB#49



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

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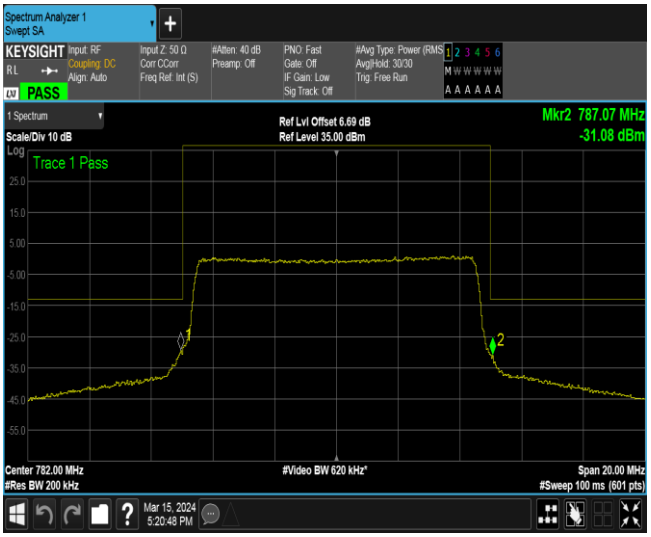
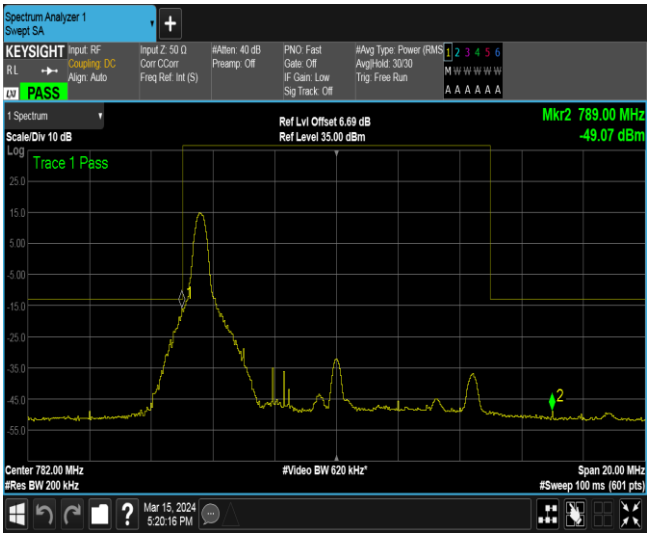


Band13-10MHz-16QAM-23230-1RB#0



Band13-10MHz-16QAM-23230-1RB#49

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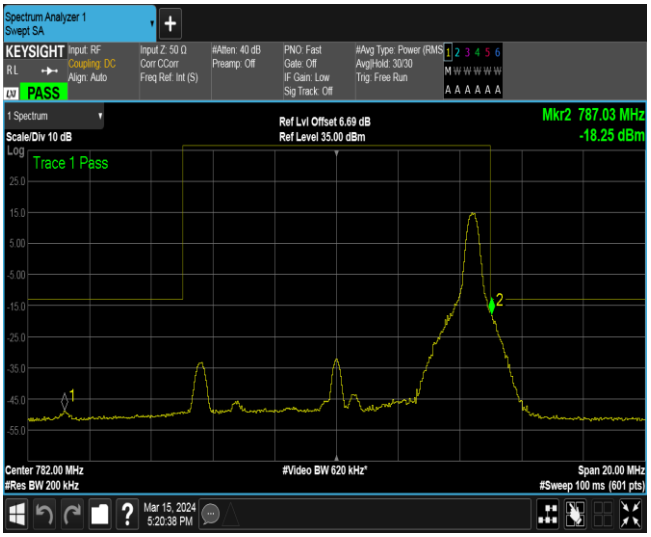
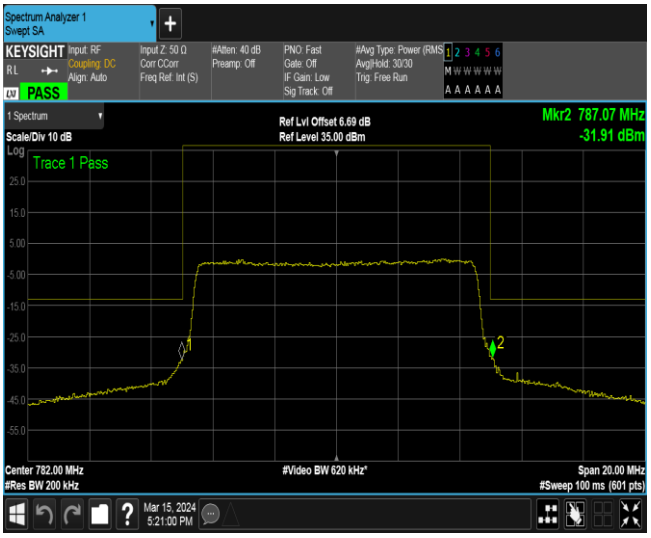


Band13-10MHz-16QAM-23230-50RB#0



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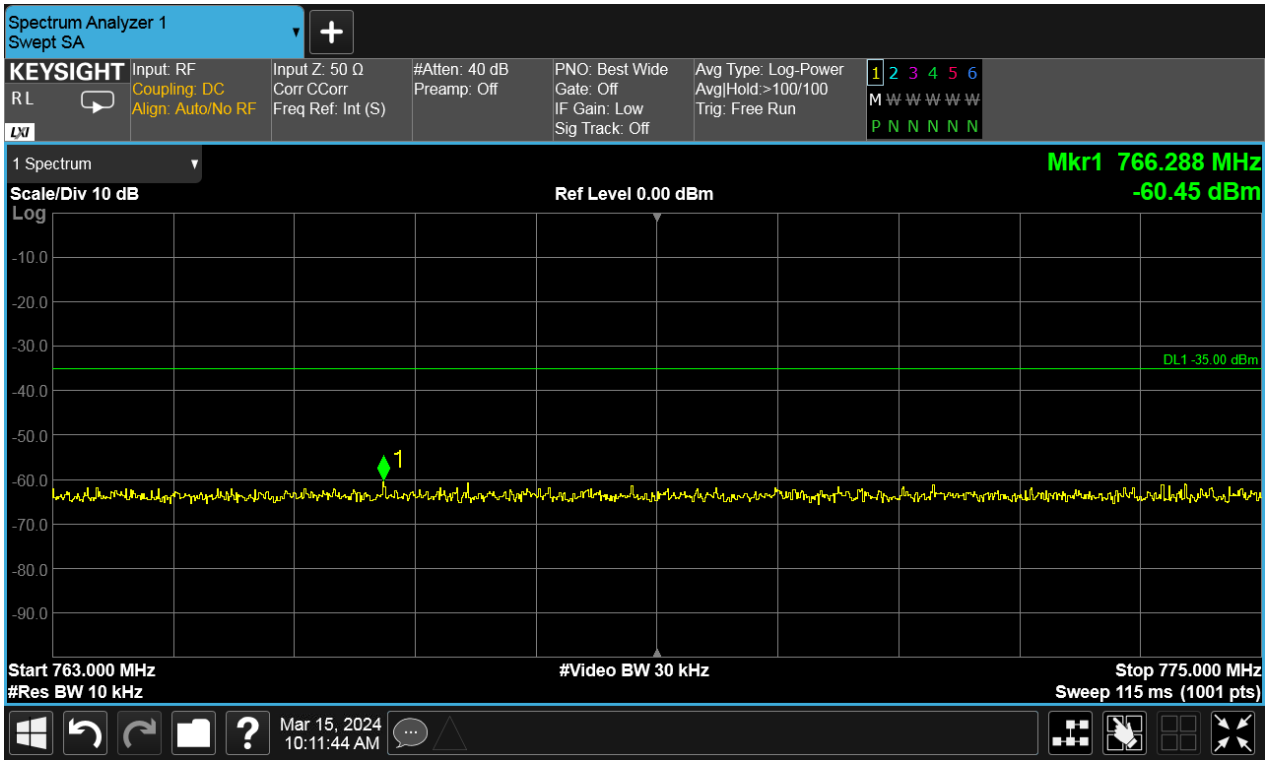
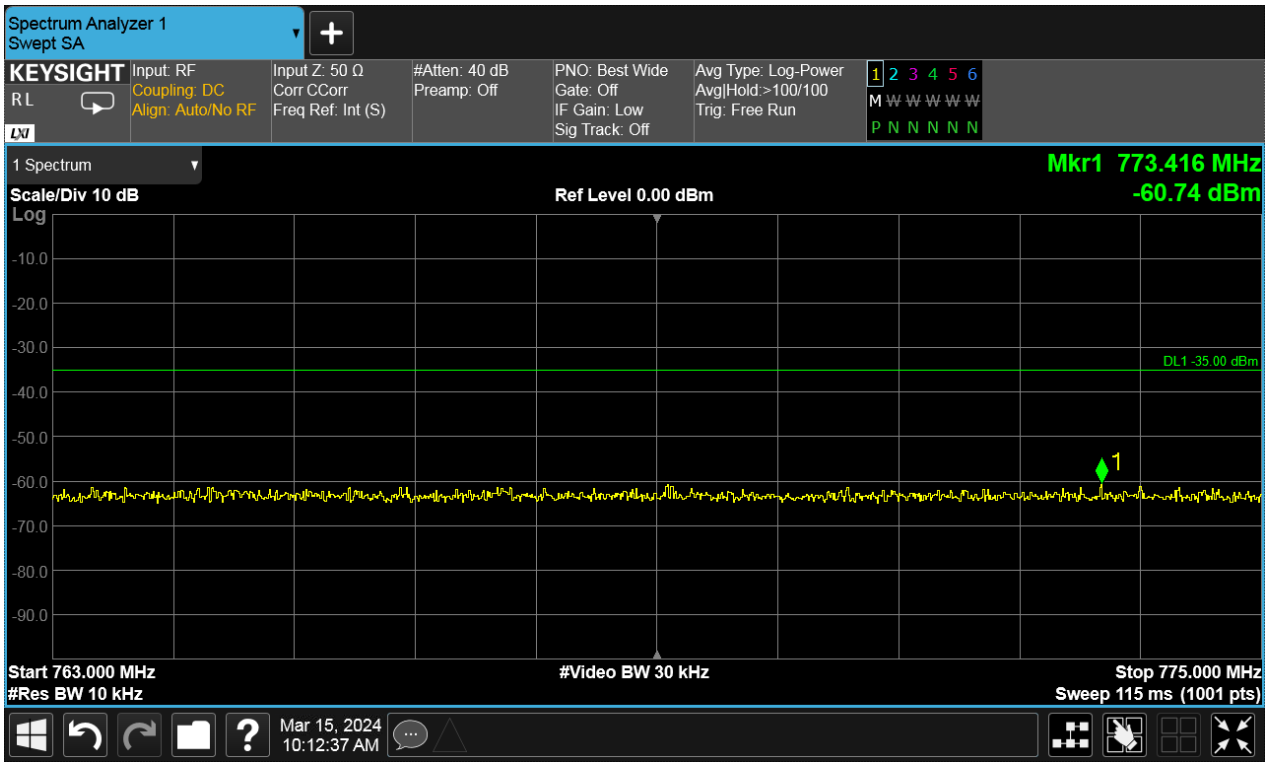
Upper Emission Mask(763 MHz ~775MHz)-QPSK-25RB#0



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



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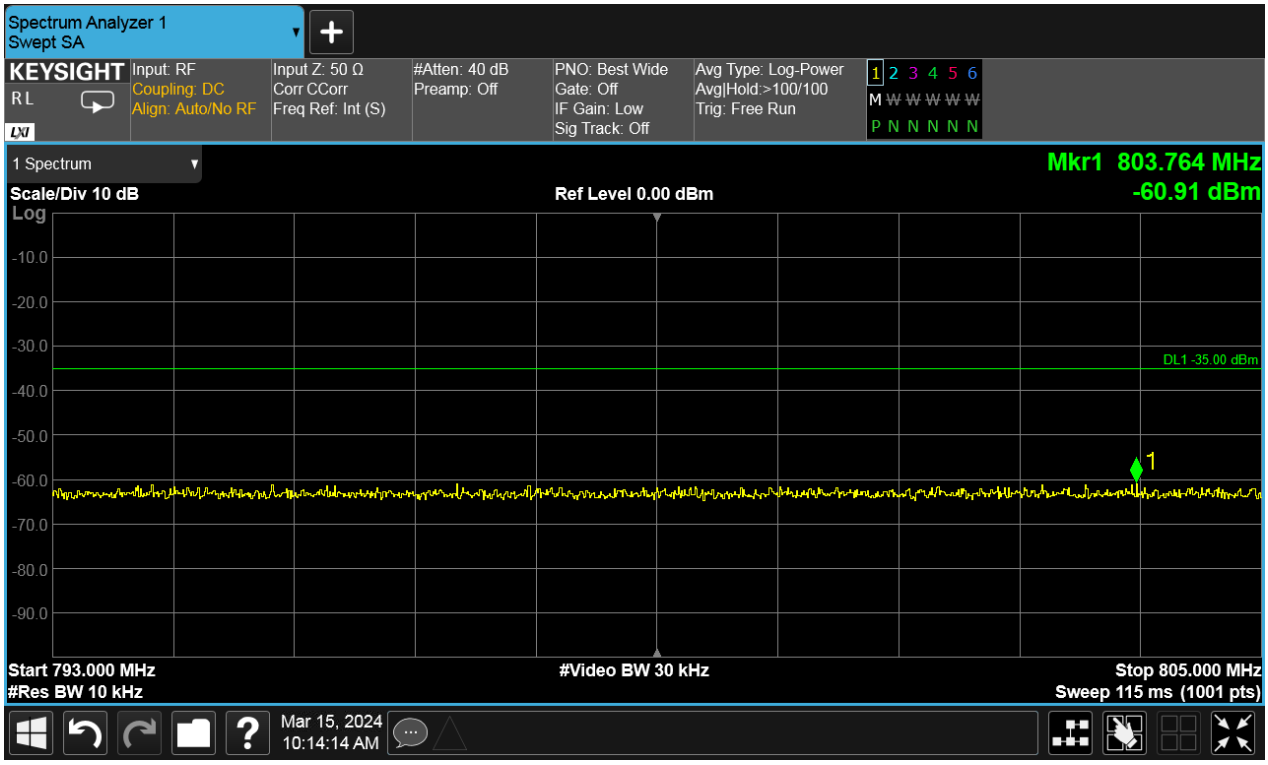
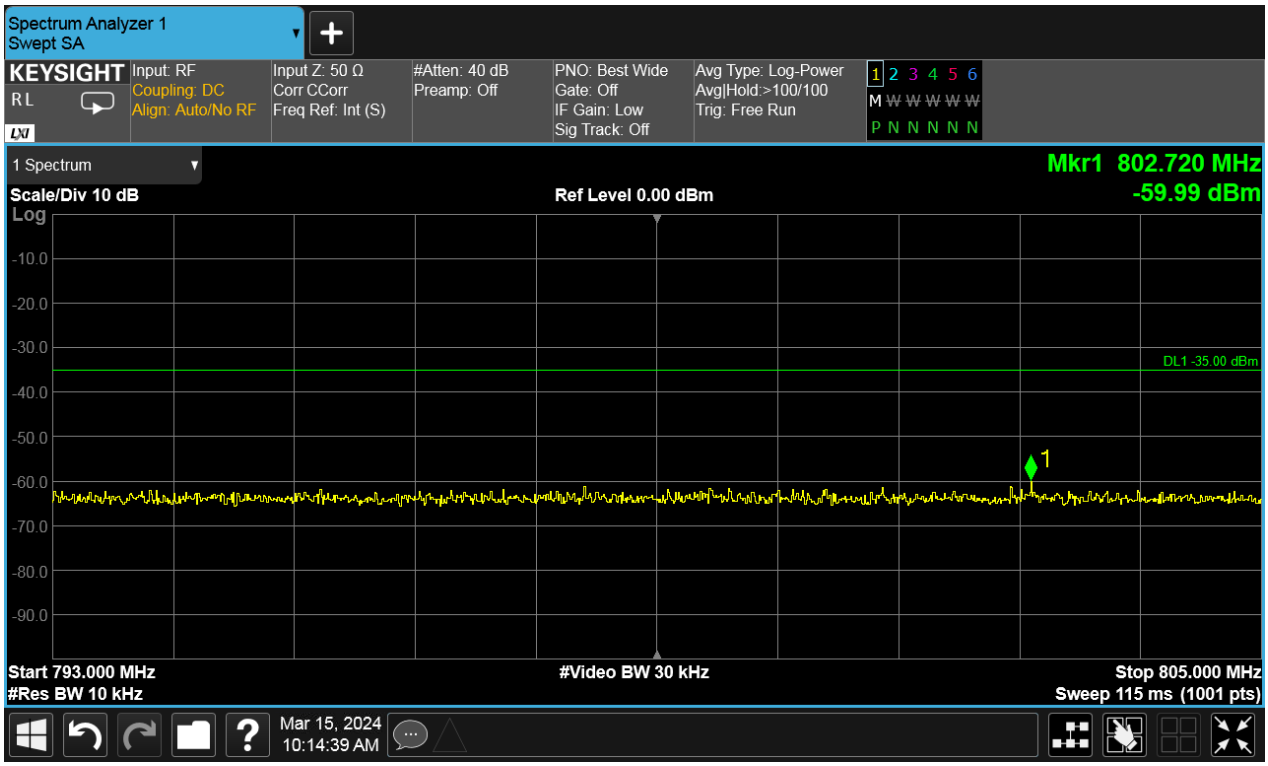
Upper Emission Mask(793 MHz ~805MHz)-QPSK-25RB#0



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



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Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-43.91	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-39.15	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:1559~1610MHz	-63.62	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-43.96	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-38.01	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:1559~1610MHz	-63.48	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-43.78	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-38.84	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:1559~1610MHz	-63.73	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-43.57	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-38.64	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:1559~1610MHz	-63.55	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-43.16	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-38.98	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:1559~1610MHz	-66.54	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-44.53	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-38.17	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:1559~1610MHz	-63.74	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-44.12	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-38.76	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:1559~1610MHz	-63.71	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-44.36	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-1000	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:1559~1610MHz	-63.91	PASS

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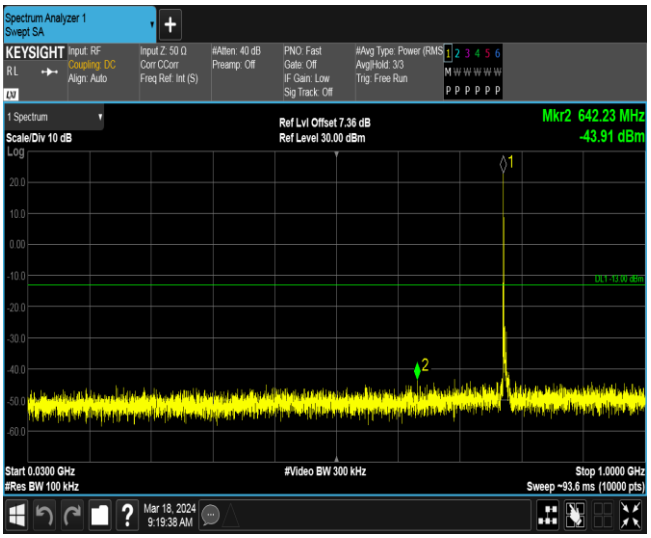
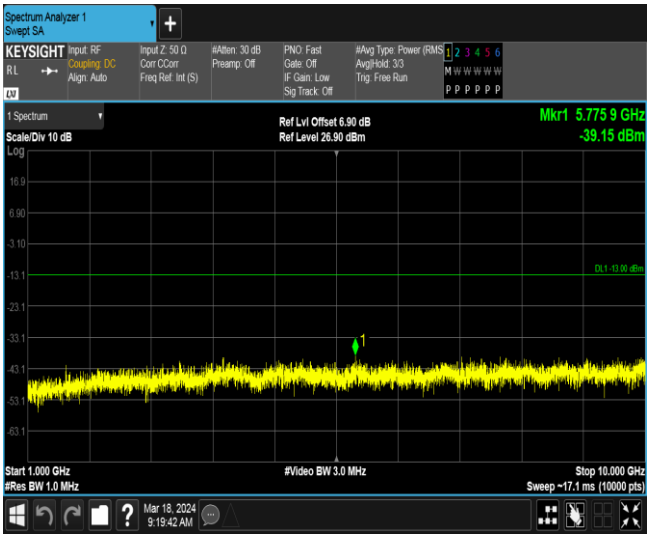
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0-Range1:30~1000MHz

Band13-5MHz-QPSK-23205-1RB#0-Range2:1000~10000MHz

Band13-5MHz-QPSK-23205-1RB#0-Range3:1559~1610MHz

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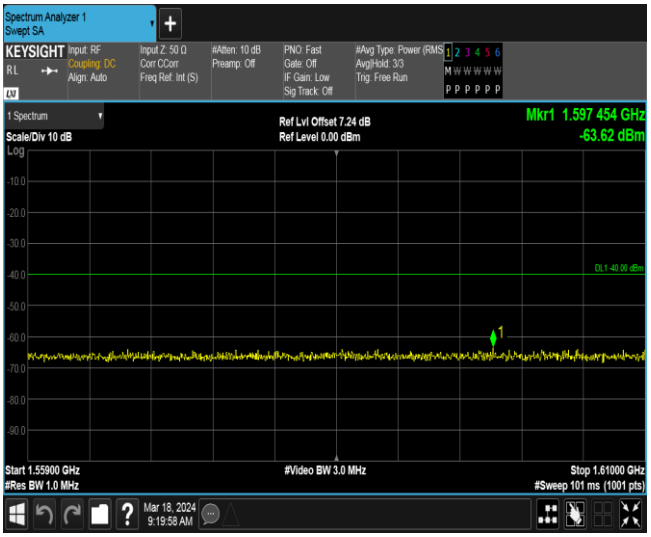
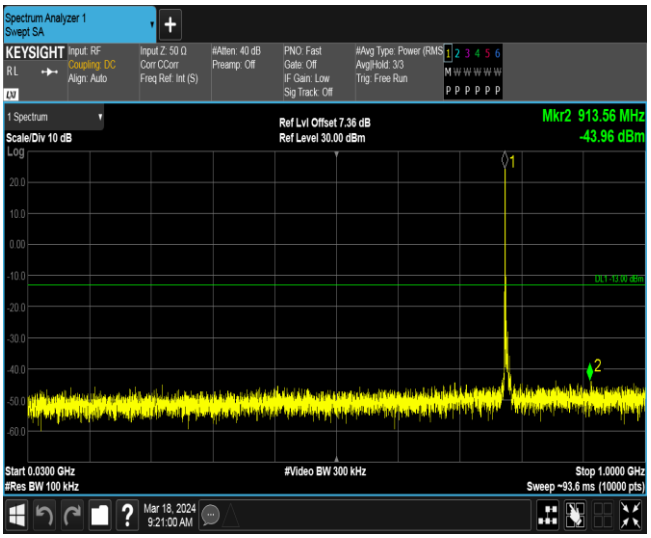


Band13-5MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



Band13-5MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz

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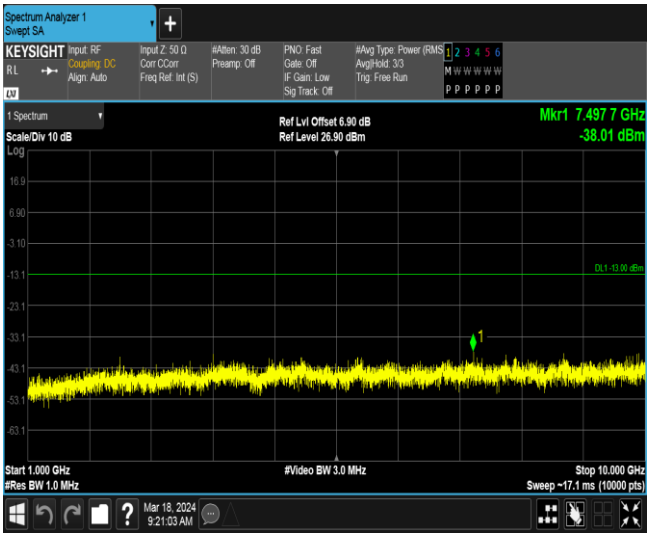
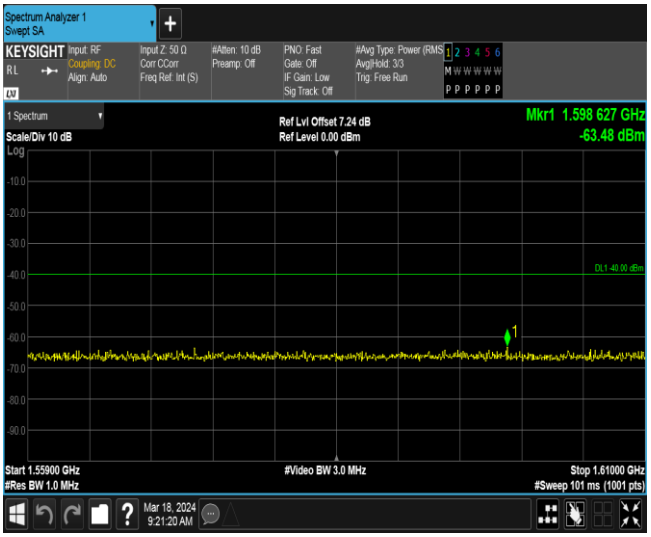


Band13-5MHz-QPSK-23230-1RB#0-Range3:1559~1610MHz



Band13-5MHz-QPSK-23255-1RB#0-Range1:30~1000MHz

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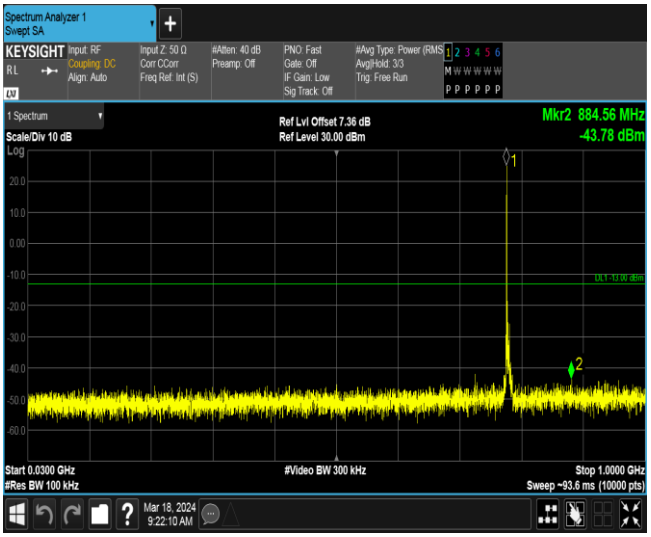

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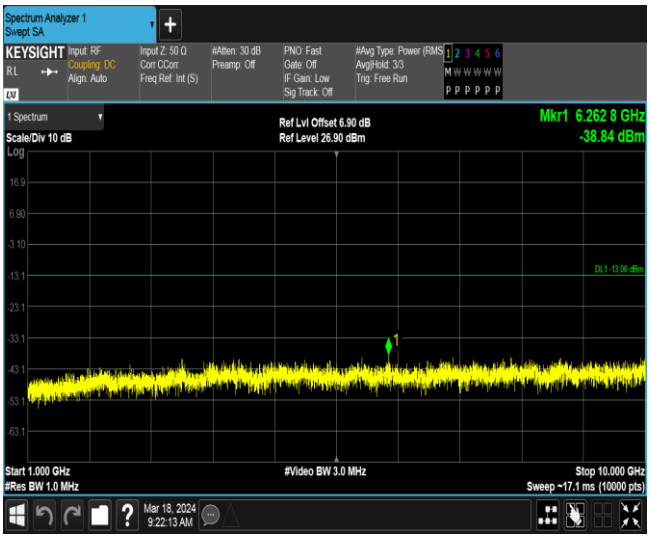

Band13-5MHz-QPSK-23255-1RB#0-Range3:1559~1610MHz

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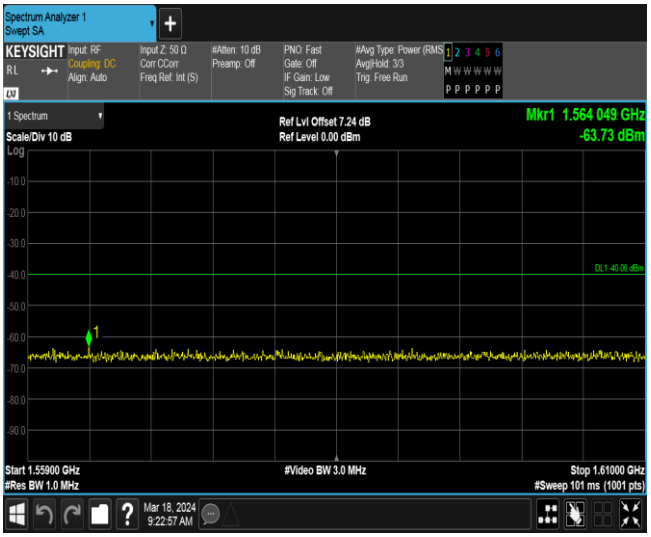

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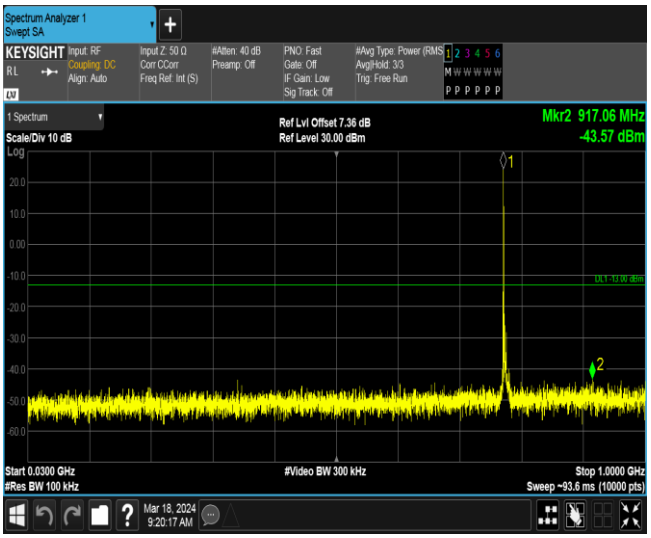

Band13-5MHz-16QAM-23205-1RB#0-Range2:1000~10000MHz

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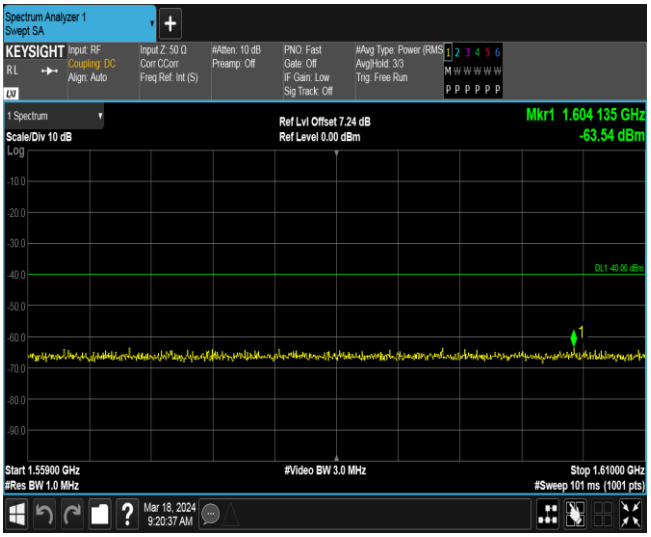
Band13-5MHz-16QAM-23205-1RB#0-Range3:1559~1610MHz



Band13-5MHz-16QAM-23230-1RB#0-Range1:30~1000MHz

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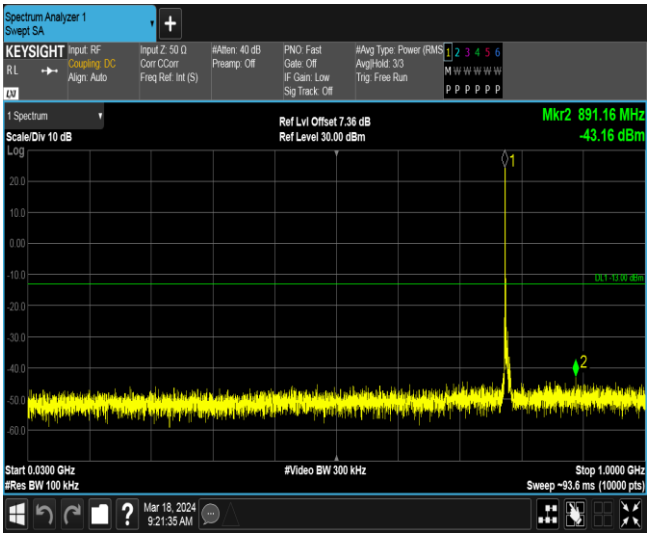
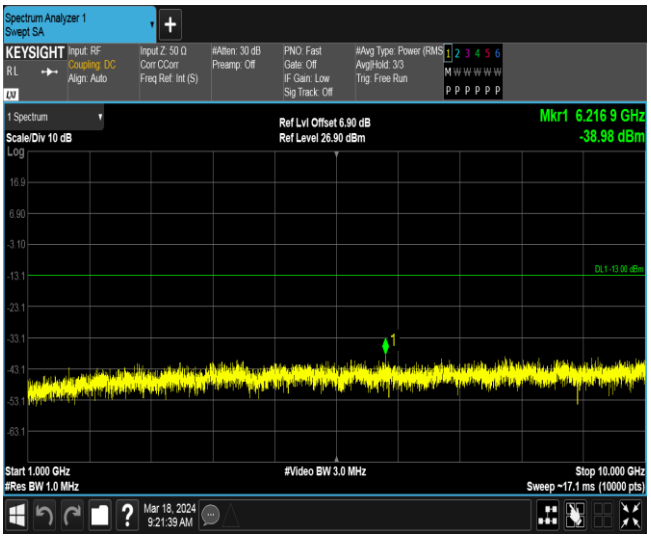


Band13-5MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



Band13-5MHz-16QAM-23230-1RB#0-Range3:1559~1610MHz

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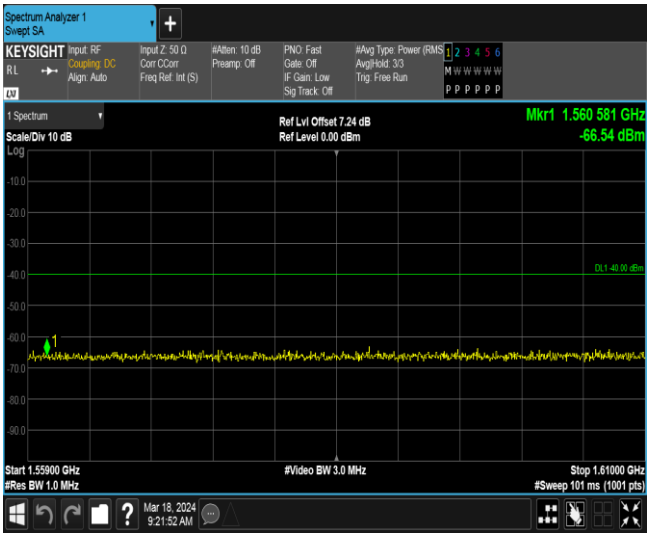
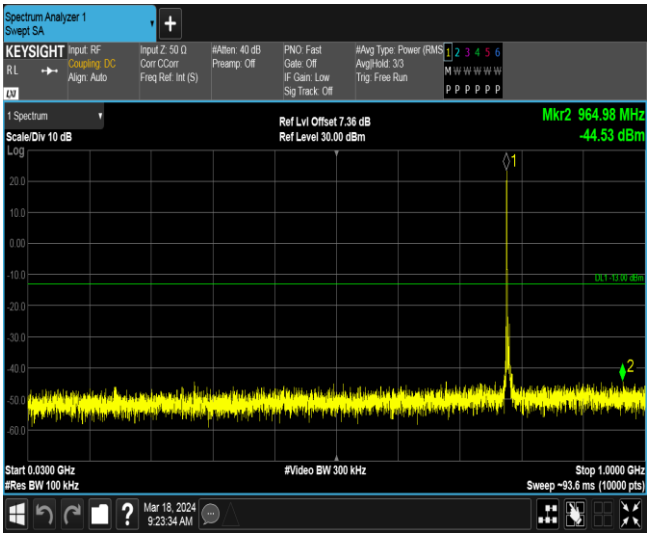


Band13-5MHz-16QAM-23255-1RB#0-Range1:30~1000MHz



Band13-5MHz-16QAM-23255-1RB#0-Range2:1000~10000MHz

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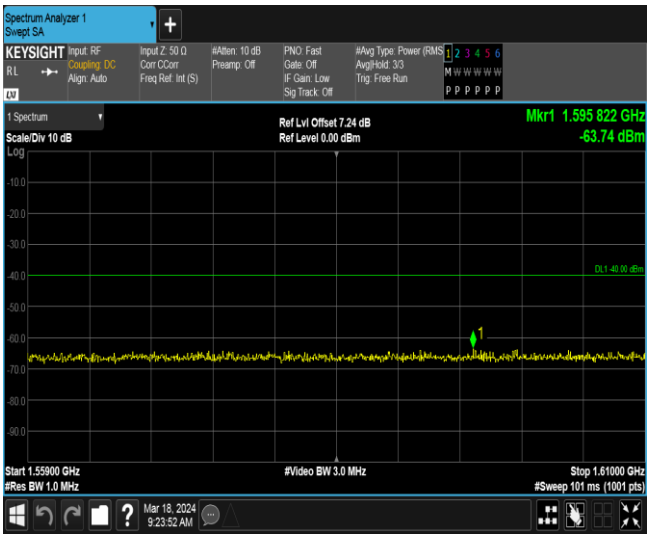
Band13-5MHz-16QAM-23255-1RB#0-Range3:1559~1610MHz



Band13-10MHz-QPSK-23230-1RB#0-Range1:30~1000MHz

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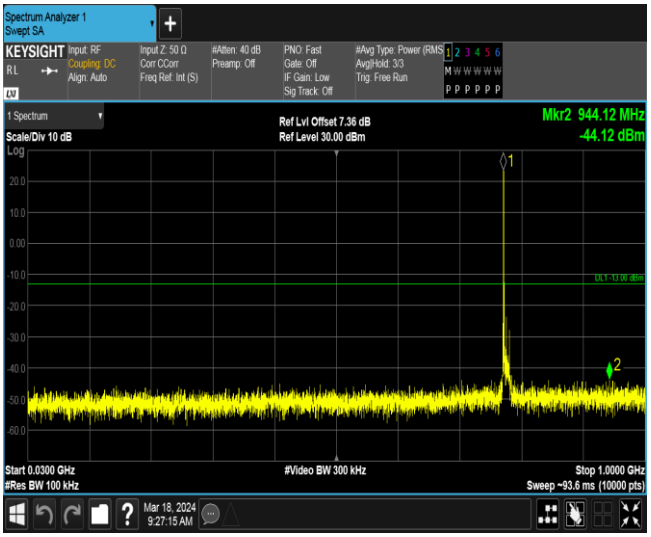
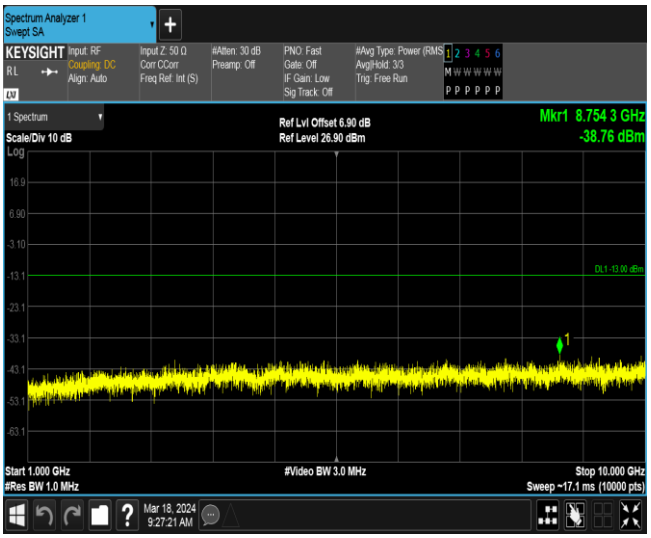


Band13-10MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range3:1559~1610MHz

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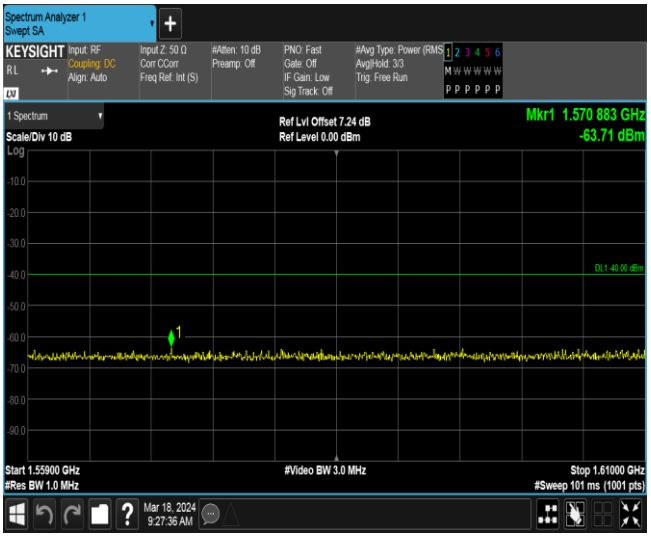
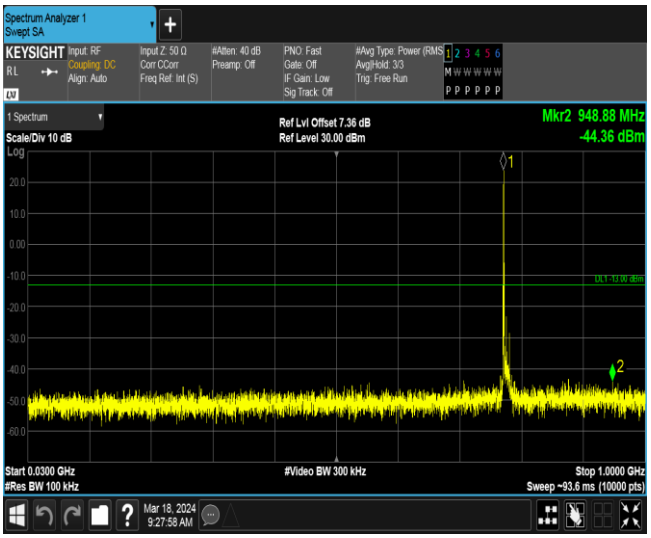


Band13-10MHz-16QAM-23230-1RB#0-Range1:30~1000MHz



Band13-10MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz

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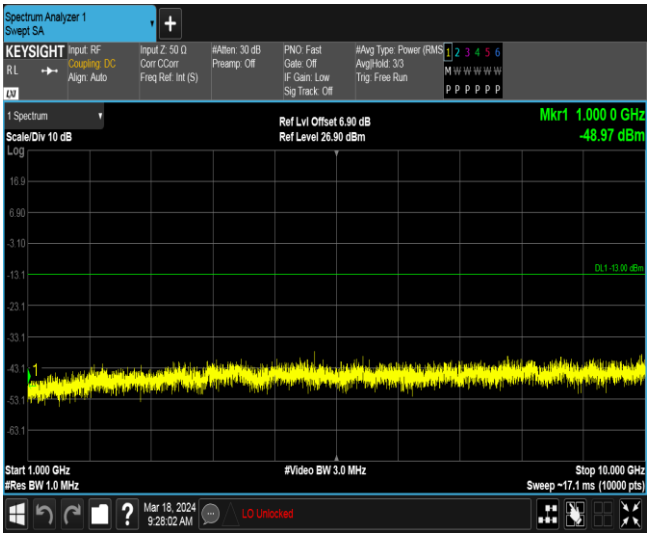
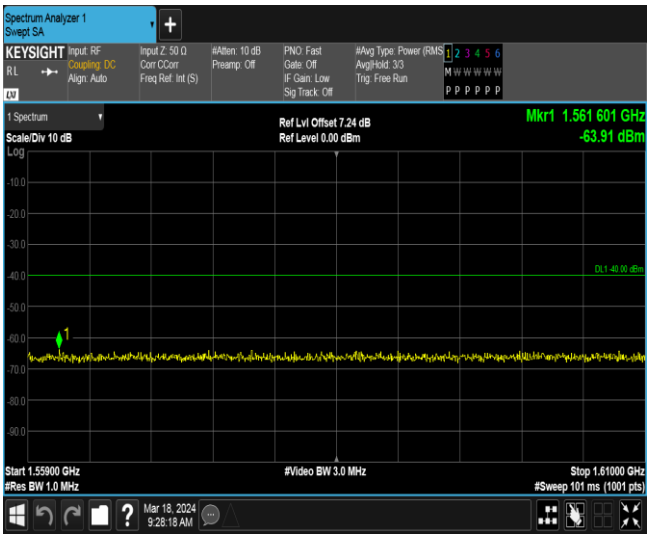


Band13-10MHz-16QAM-23230-1RB#0-Range3:1559~1610MHz



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Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	-5.52	-0.007081	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	-17.19	-0.022053	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-8.38	-0.010750	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-12.27	-0.015691	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	-8.07	-0.010320	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	-9.26	-0.011841	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	-12.29	-0.015666	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	-7.32	-0.009331	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	-13.45	-0.017145	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-10.91	-0.013996	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	-5.12	-0.006568	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	-4.88	-0.006260	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	-10.57	-0.013517	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	-2.83	-0.003619	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	-11.56	-0.014783	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	-16.31	-0.020790	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	-16.59	-0.021147	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	-10.84	-0.013818	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-4.66	-0.005959	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-7.02	-0.008977	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-15.59	-0.019936	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-7.44	-0.009514	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-10.93	-0.013977	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	5.68	0.007263	±2.5	PASS

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Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-30	-9.44	-0.012110	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	-8.08	-0.010366	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-13.82	-0.017729	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-8.90	-0.011418	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	-8.50	-0.010904	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	-15.44	-0.019744	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	-13.43	-0.017174	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	-13.82	-0.017673	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-13.52	-0.017289	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-8.40	-0.010742	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	-9.68	-0.012339	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	-8.23	-0.010491	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	-6.75	-0.008604	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	-16.51	-0.021045	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	2.69	0.003429	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	-1.69	-0.002168	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-13.26	-0.017011	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-14.02	-0.017986	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-11.26	-0.014445	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-6.32	-0.008108	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	-7.80	-0.009974	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	-12.50	-0.015985	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-12.29	-0.015716	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-3.78	-0.004834	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-7.71	-0.009859	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	-16.18	-0.020625	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	-15.42	-0.019656	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-10.50	-0.013384	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	-13.99	-0.017833	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	-11.99	-0.015284	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-6.91	-0.008836	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-11.17	-0.014284	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-6.07	-0.007762	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-11.14	-0.014246	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-5.66	-0.007238	±2.5	PASS

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Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-9.07	-0.011598	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-3.85	-0.004923	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-10.17	-0.013005	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-12.02	-0.015371	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-11.19	-0.014309	±2.5	PASS

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