Appendix A: Conducted Output Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	20.86	PASS
Band13	5MHz	QPSK	23205	1RB#12	21.31	PASS
Band13	5MHz	QPSK	23205	1RB#24	21.72	PASS
Band13	5MHz	QPSK	23205	12RB#0	20.34	PASS
Band13	5MHz	QPSK	23205	12RB#6	20.34	PASS
Band13	5MHz	QPSK	23205	12RB#13	20.64	PASS
Band13	5MHz	QPSK	23205	25RB#0	20.37	PASS
Band13	5MHz	QPSK	23230	1RB#0	21.23	PASS
Band13	5MHz	QPSK	23230	1RB#12	21.67	PASS
Band13	5MHz	QPSK	23230	1RB#24	21.97	PASS
Band13	5MHz	QPSK	23230	12RB#0	20.67	PASS
Band13	5MHz	QPSK	23230	12RB#6	20.61	PASS
Band13	5MHz	QPSK	23230	12RB#13	20.87	PASS
Band13	5MHz	QPSK	23230	25RB#0	20.86	PASS
Band13	5MHz	QPSK	23255	1RB#0	21.86	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.28	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.43	PASS
Band13	5MHz	QPSK	23255	12RB#0	20.94	PASS
Band13	5MHz	QPSK	23255	12RB#6	20.91	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.17	PASS
Band13	5MHz	QPSK	23255	25RB#0	20.97	PASS
Band13	5MHz	16QAM	23205	1RB#0	19.19	PASS
Band13	5MHz	16QAM	23205	1RB#12	19.92	PASS
Band13	5MHz	16QAM	23205	1RB#24	20.38	PASS
Band13	5MHz	16QAM	23205	12RB#0	19.09	PASS
Band13	5MHz	16QAM	23205	12RB#6	19.08	PASS
Band13	5MHz	16QAM	23205	12RB#13	19.68	PASS
Band13	5MHz	16QAM	23205	25RB#0	19.64	PASS
Band13	5MHz	16QAM	23230	1RB#0	20.50	PASS
Band13	5MHz	16QAM	23230	1RB#12	20.94	PASS

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Band13	5MHz	16QAM	23230	1RB#24	21.19	PASS
Band13	5MHz	16QAM	23230	12RB#0	19.84	PASS
Band13	5MHz	16QAM	23230	12RB#6	19.86	PASS
Band13	5MHz	16QAM	23230	12RB#13	19.97	PASS
Band13	5MHz	16QAM	23230	25RB#0	19.65	PASS
Band13	5MHz	16QAM	23255	1RB#0	20.73	PASS
Band13	5MHz	16QAM	23255	1RB#12	20.72	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.05	PASS
Band13	5MHz	16QAM	23255	12RB#0	19.80	PASS
Band13	5MHz	16QAM	23255	12RB#6	19.70	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.12	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.11	PASS
Band13	10MHz	QPSK	23230	1RB#0	21.58	PASS
Band13	10MHz	QPSK	23230	1RB#24	21.71	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.34	PASS
Band13	10MHz	QPSK	23230	25RB#0	20.36	PASS
Band13	10MHz	QPSK	23230	25RB#12	20.34	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.06	PASS
Band13	10MHz	QPSK	23230	50RB#0	20.91	PASS
Band13	10MHz	16QAM	23230	1RB#0	19.84	PASS
Band13	10MHz	16QAM	23230	1RB#24	20.71	PASS
Band13	10MHz	16QAM	23230	1RB#49	20.90	PASS
Band13	10MHz	16QAM	23230	25RB#0	19.50	PASS
Band13	10MHz	16QAM	23230	25RB#12	19.52	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.02	PASS
Band13	10MHz	16QAM	23230	50RB#0	19.71	PASS

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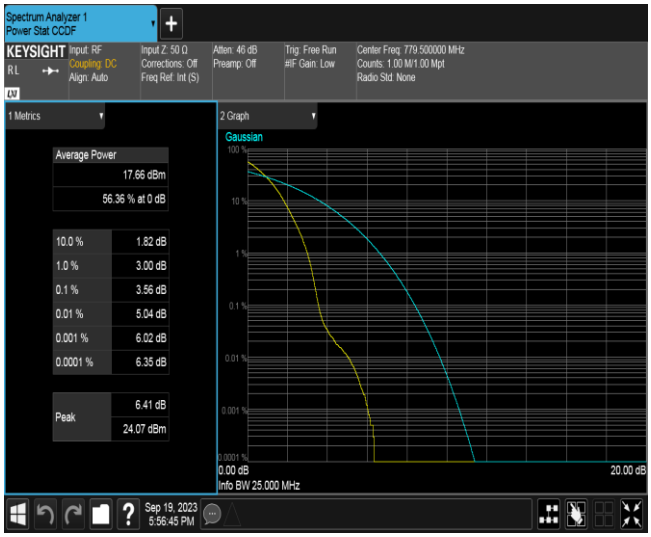
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.56	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.37	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	3.39	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.80	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	3.51	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	6.43	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	3.98	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.18	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.47	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.49	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	4.07	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	7.05	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.28	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.92	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	3.93	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.67	13	PASS

Test Graphs

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



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

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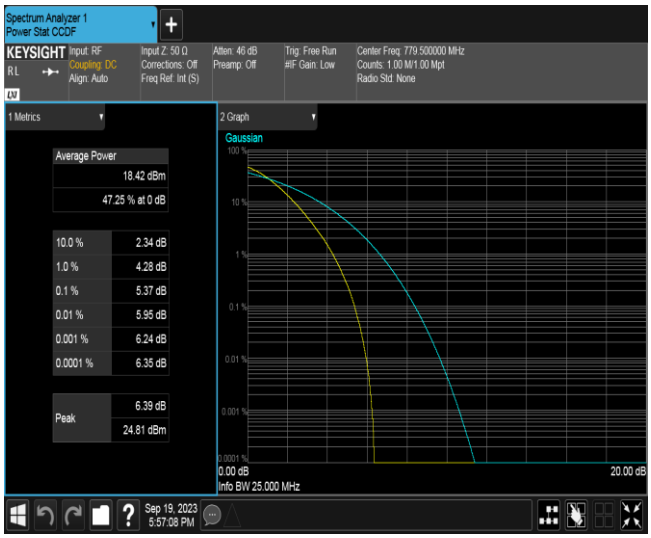
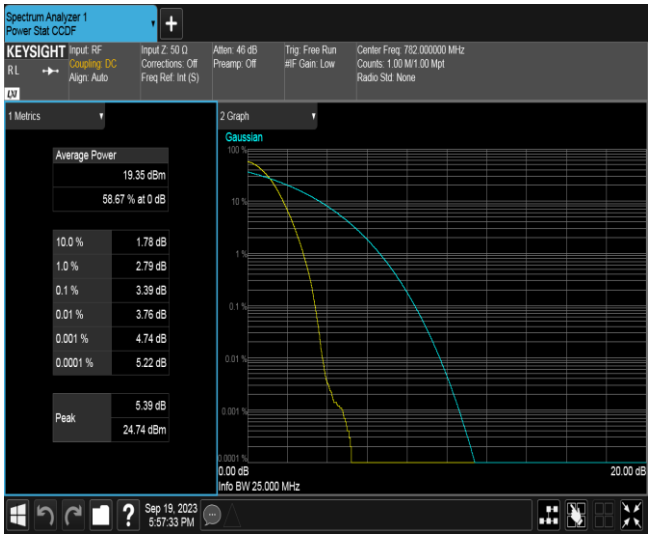


Band13-5MHz-QPSK-23230-1RB#0



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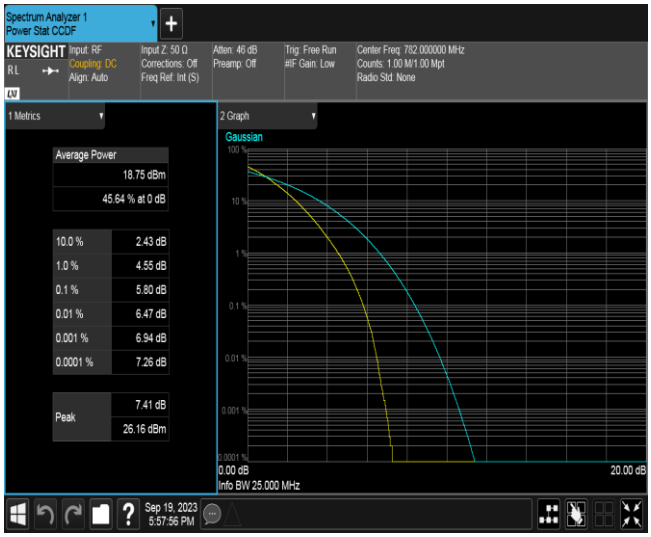

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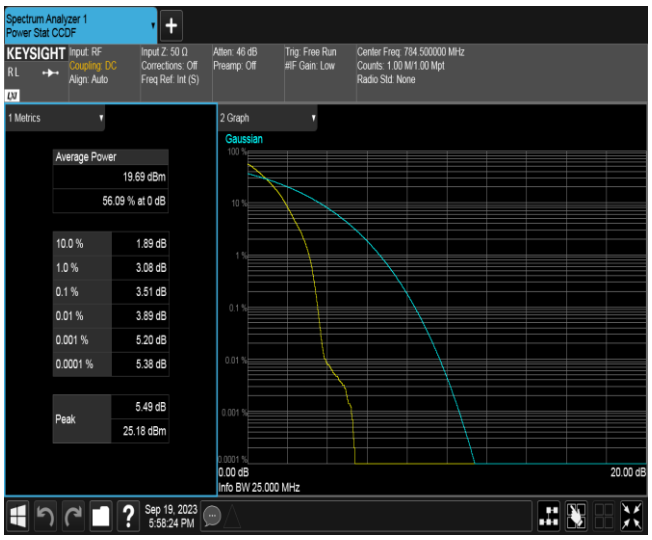
Band13-5MHz-QPSK-23255-1RB#0


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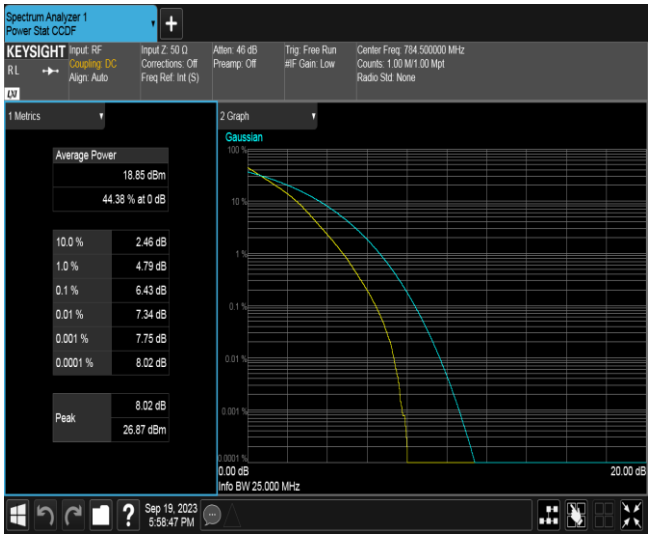

Band13-5MHz-16QAM-23205-1RB#0

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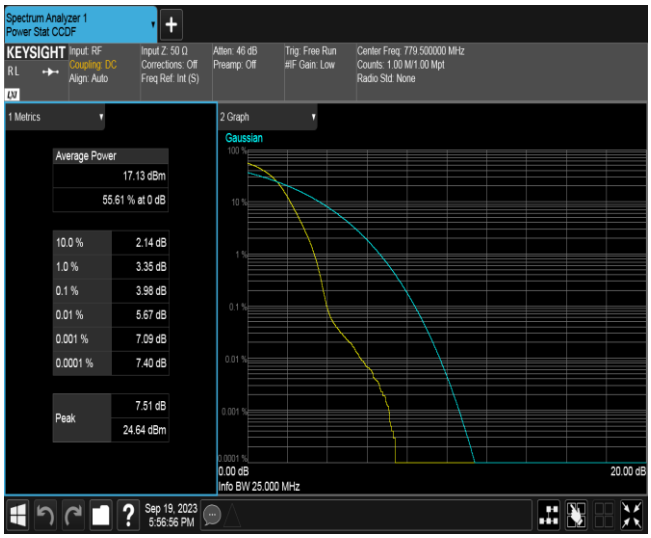
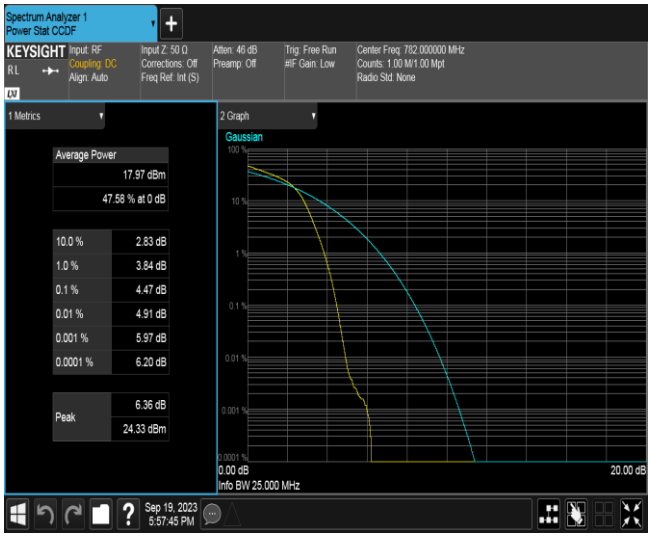


Band13-5MHz-16QAM-23205-25RB#0

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



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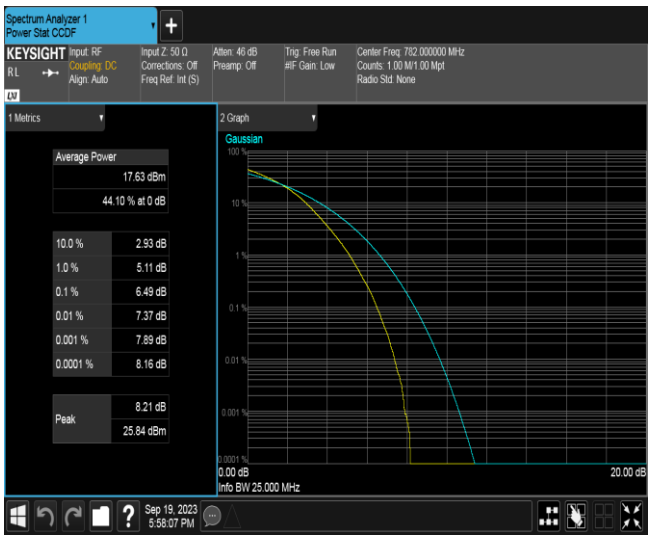
Band13-5MHz-16QAM-23230-25RB#0

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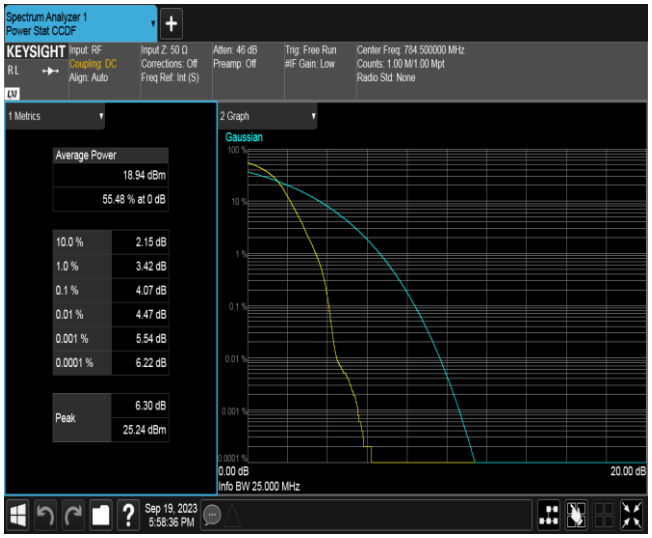
Band13-5MHz-16QAM-23255-25RB#0

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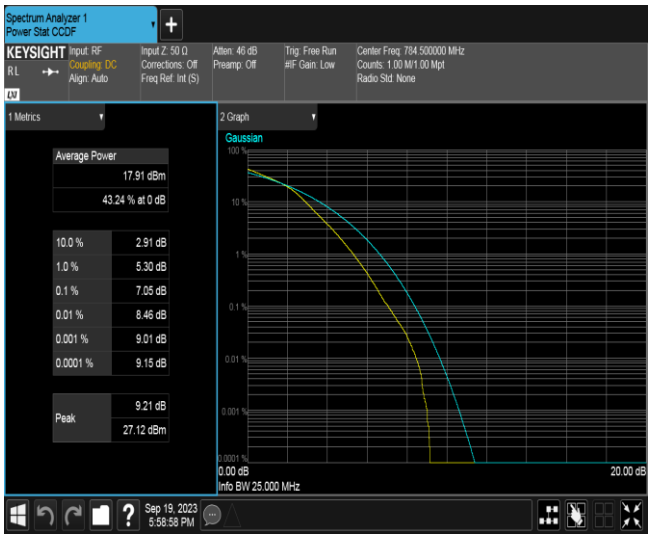
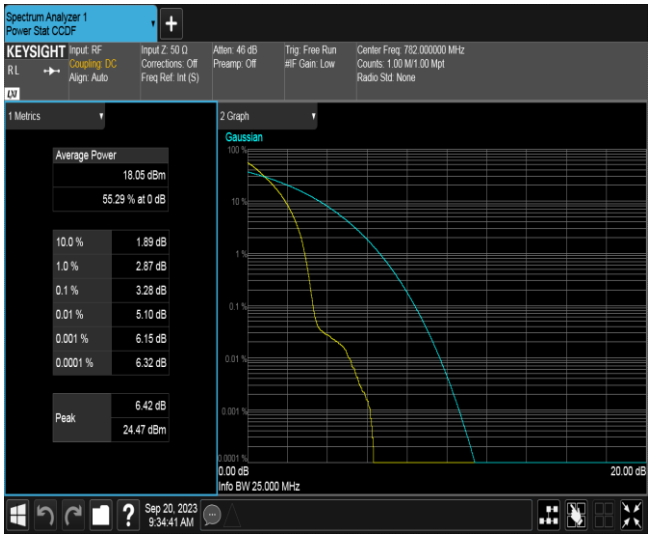


Band13-10MHz-QPSK-23230-1RB#0



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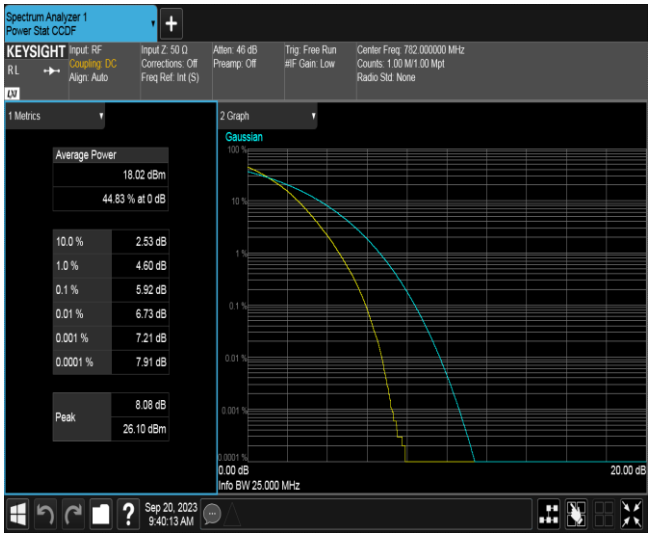

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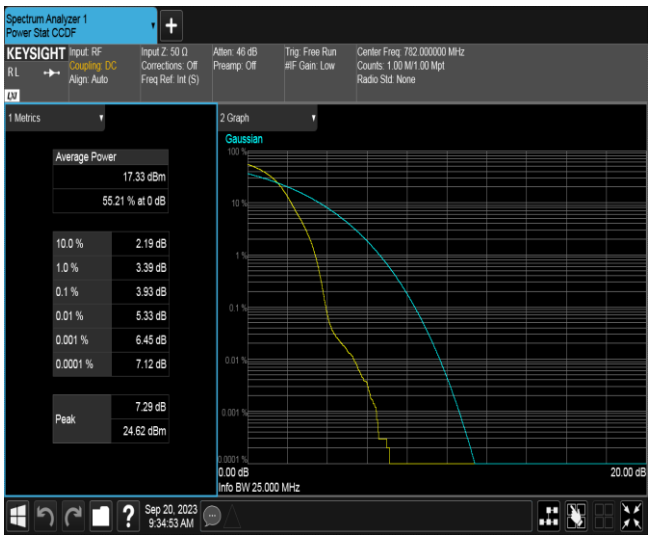
Band13-10MHz-16QAM-23230-1RB#0


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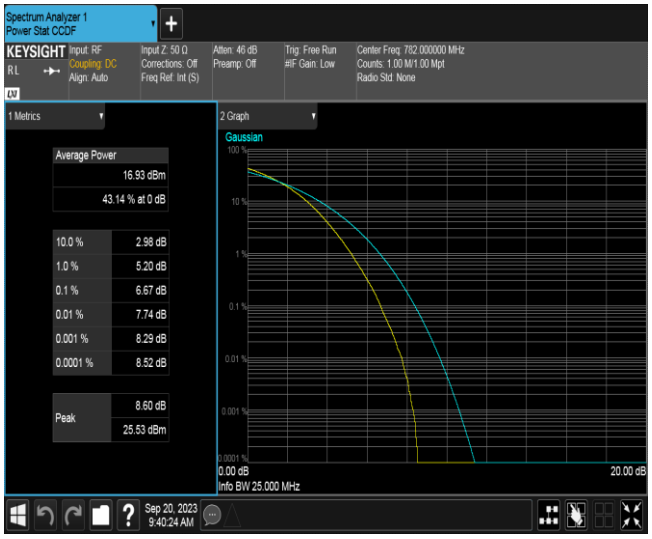

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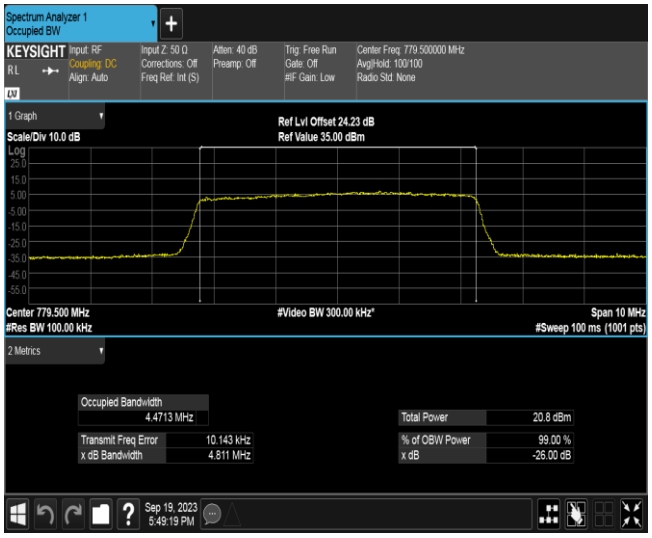
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4713	4.811	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4925	4.855	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5184	4.901	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4713	4.817	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.4937	4.872	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5156	4.900	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9670	9.533	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9563	9.568	PASS

Test Graphs

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



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

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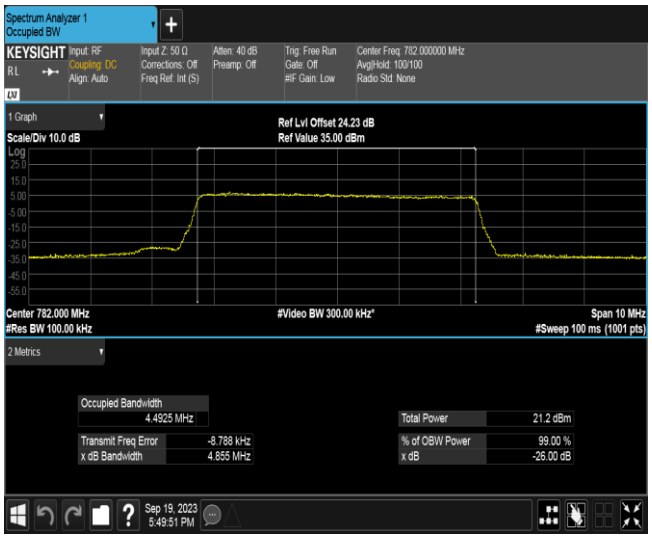
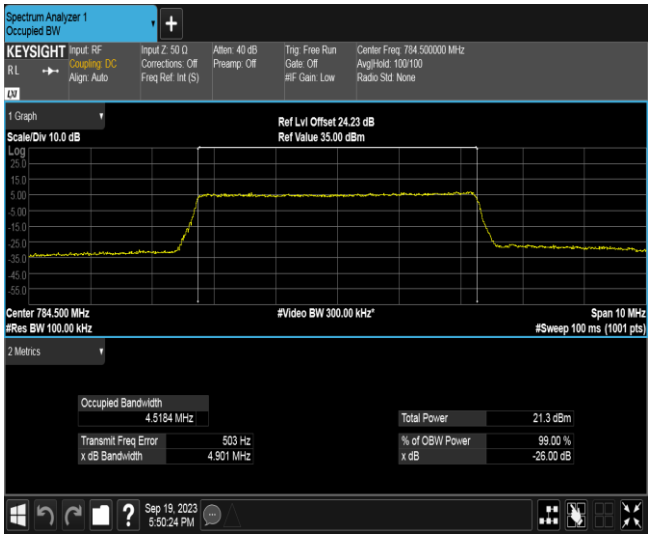
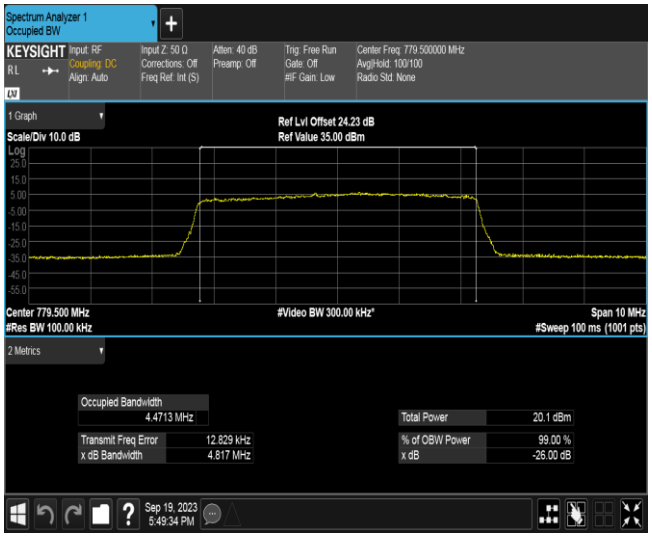


Band13-5MHz-QPSK-23255-25RB#0



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



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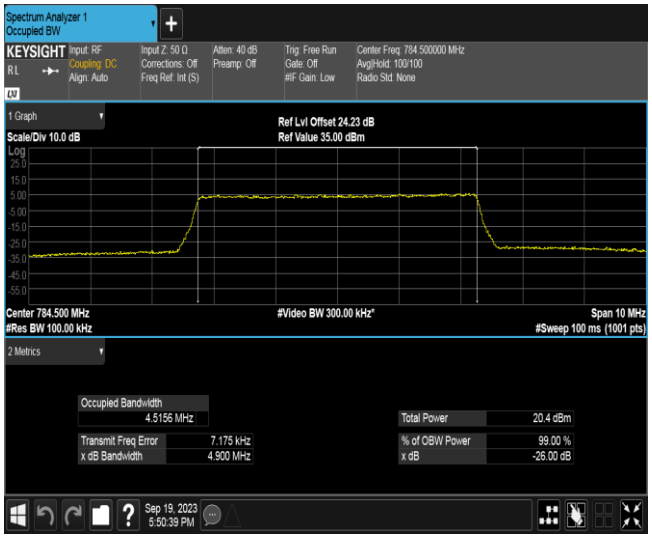
Band13-5MHz-16QAM-23230-25RB#0
Band13-5MHz-16QAM-23255-25RB#0

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

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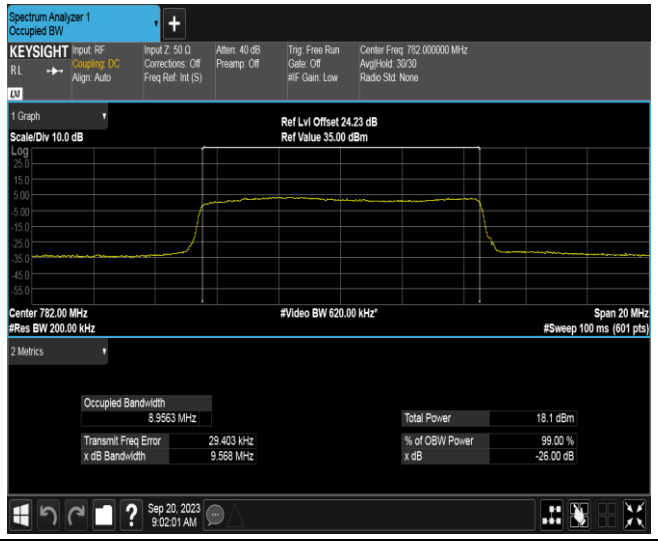
Band13-10MHz-16QAM-23230-50RB#0



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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	-14.69	PASS
Band13	5MHz	QPSK	23205	1RB#24	-33.42	PASS
Band13	5MHz	QPSK	23205	25RB#0	-27.97	PASS
Band13	5MHz	QPSK	23255	1RB#0	-30.38	PASS
Band13	5MHz	QPSK	23255	1RB#24	-16.19	PASS
Band13	5MHz	QPSK	23255	25RB#0	-24.31	PASS
Band13	5MHz	16QAM	23205	1RB#0	-14.04	PASS
Band13	5MHz	16QAM	23205	1RB#24	-33.51	PASS
Band13	5MHz	16QAM	23205	25RB#0	-29.37	PASS
Band13	5MHz	16QAM	23255	1RB#0	-30.05	PASS
Band13	5MHz	16QAM	23255	1RB#24	-16.33	PASS
Band13	5MHz	16QAM	23255	25RB#0	-24.56	PASS
Band13	10MHz	QPSK	23230	1RB#0	-18.69,-31.96	PASS
Band13	10MHz	QPSK	23230	1RB#49	-32.77,-20.72	PASS
Band13	10MHz	QPSK	23230	50RB#0	-29.94,-29.39	PASS
Band13	10MHz	16QAM	23230	1RB#0	-18.74,-32.03	PASS
Band13	10MHz	16QAM	23230	1RB#49	-33.05,-21.51	PASS
Band13	10MHz	16QAM	23230	50RB#0	-30.47,-29.81	PASS

Test Graphs

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

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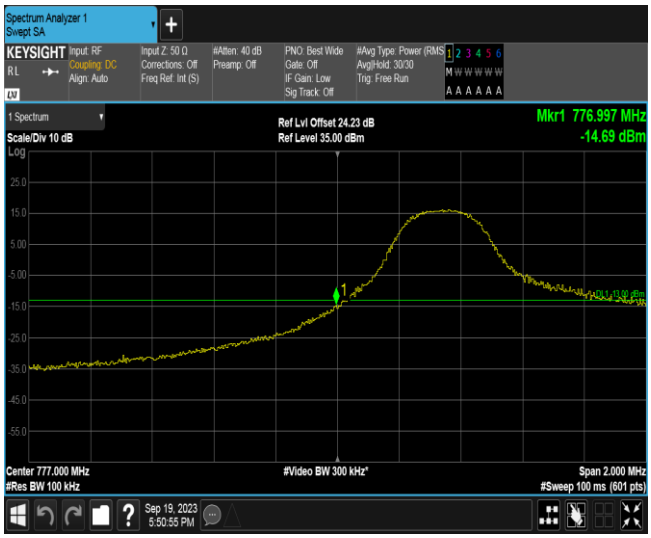
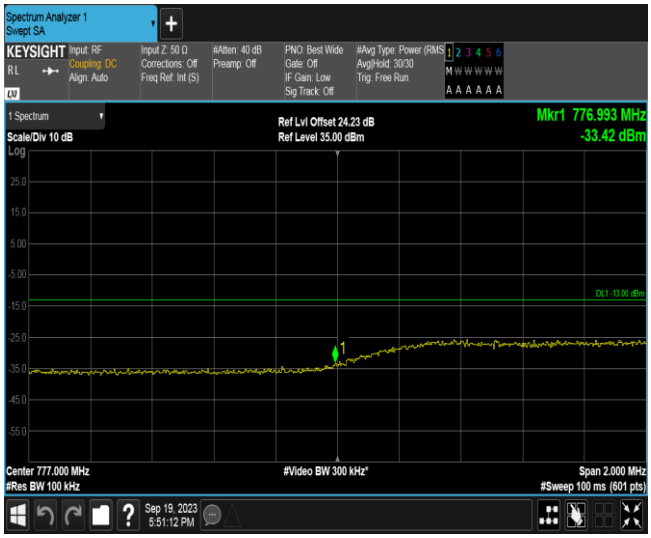


Band13-5MHz-QPSK-23205-1RB#24



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

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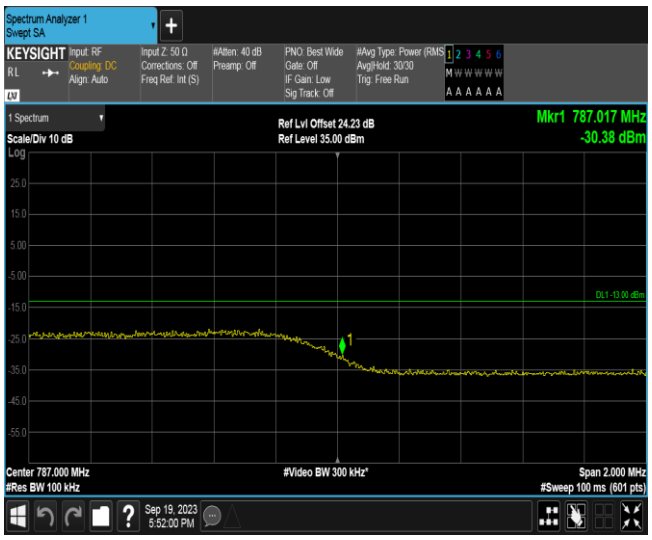
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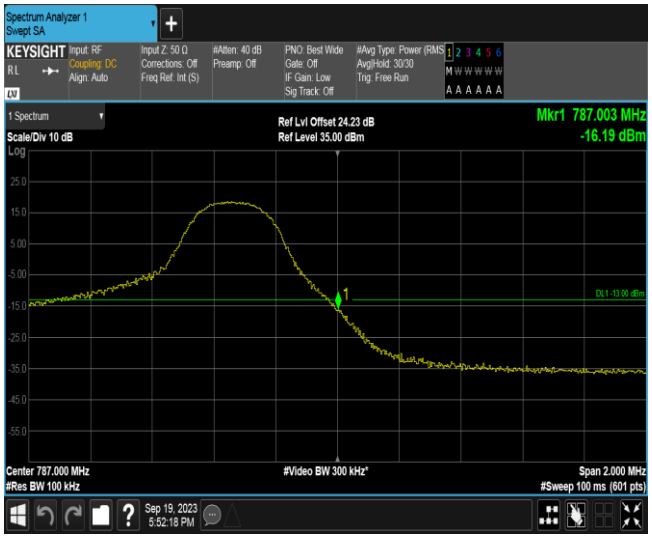
Band13-5MHz-QPSK-23255-25RB#0

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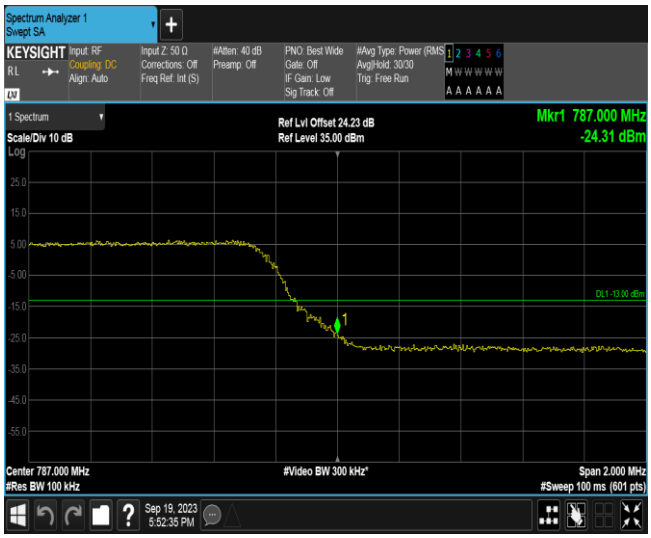

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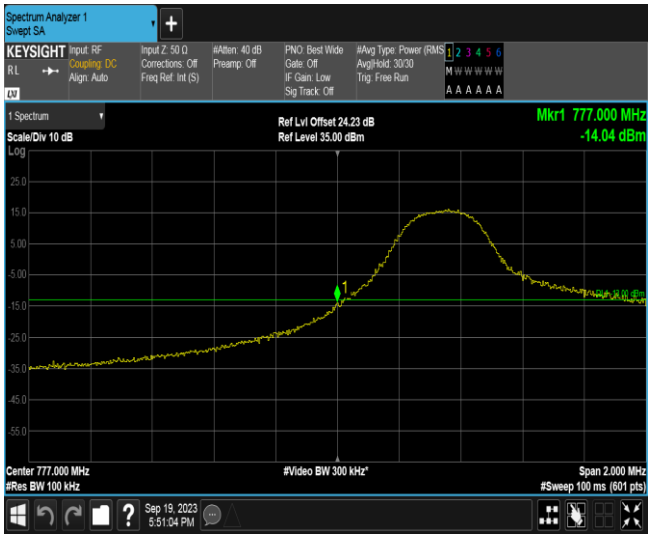

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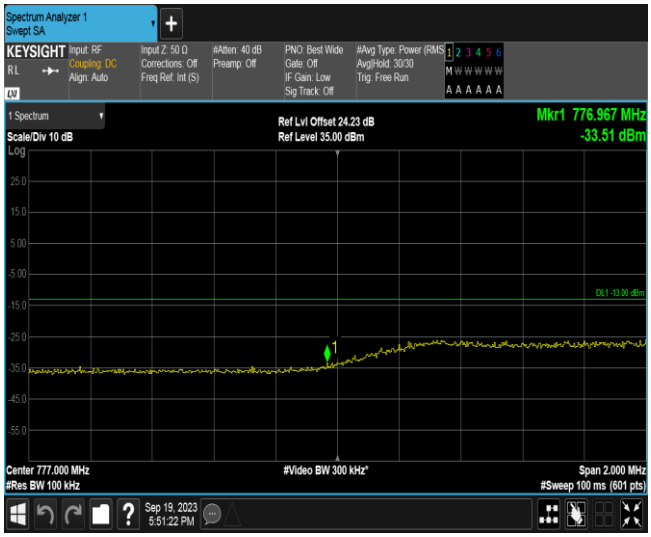

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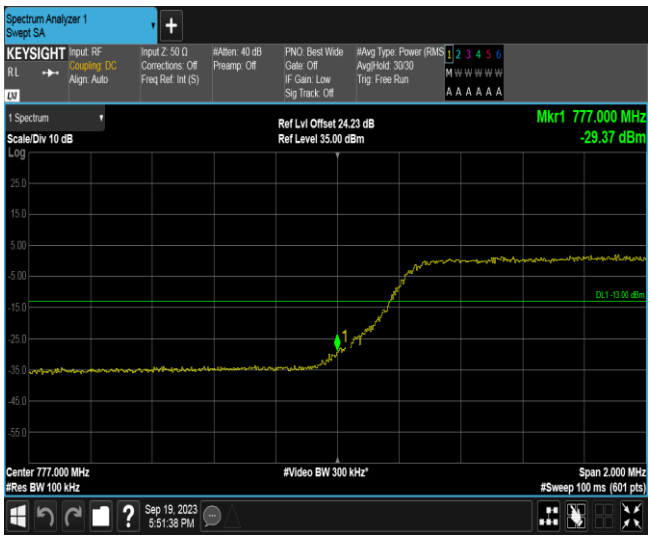
Band13-5MHz-16QAM-23205-25RB#0

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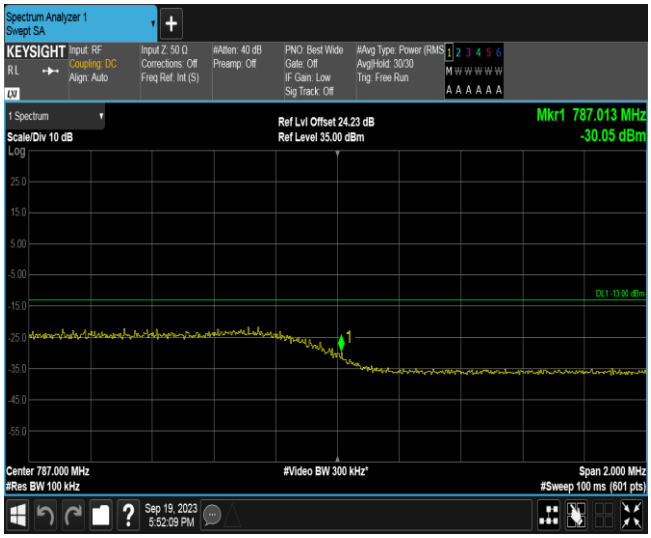
Band13-5MHz-16QAM-23255-1RB#24

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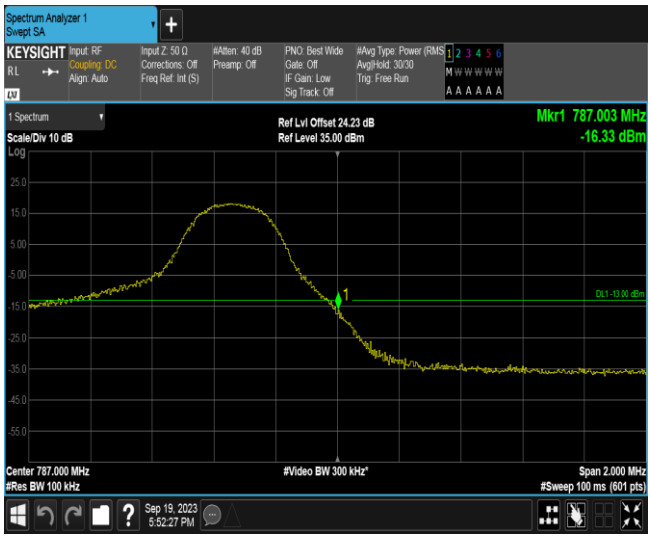
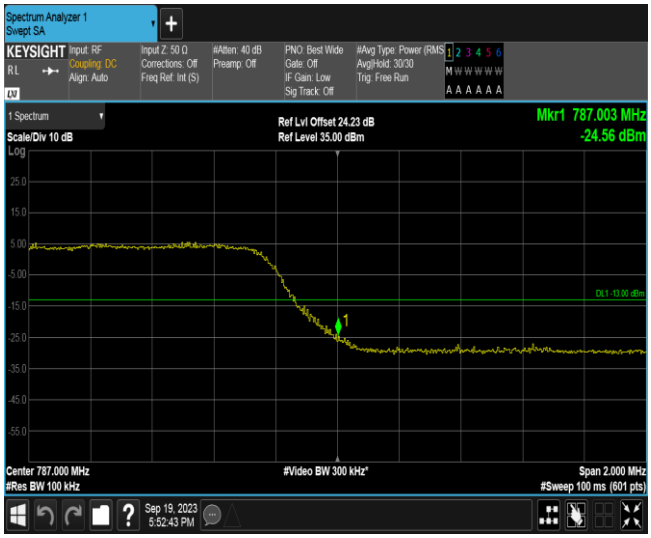
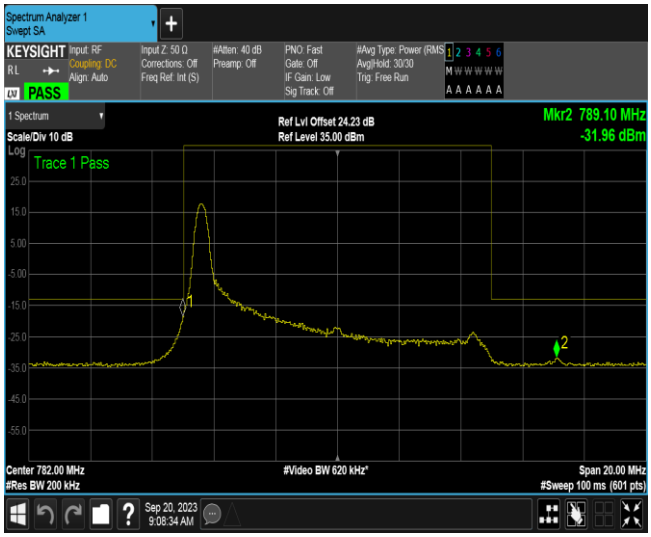


Band13-5MHz-16QAM-23255-25RB#0



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



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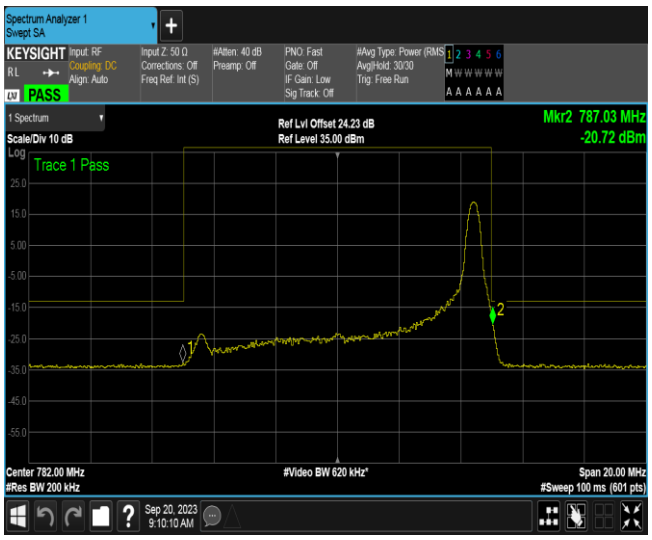
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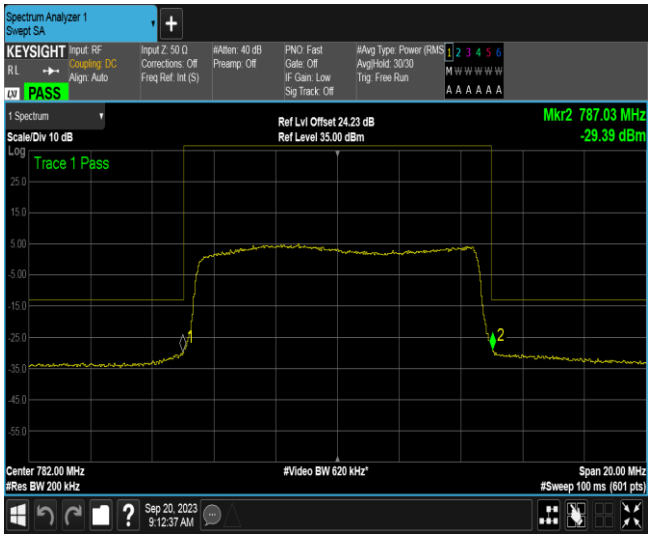
Band13-10MHz-16QAM-23230-1RB#0

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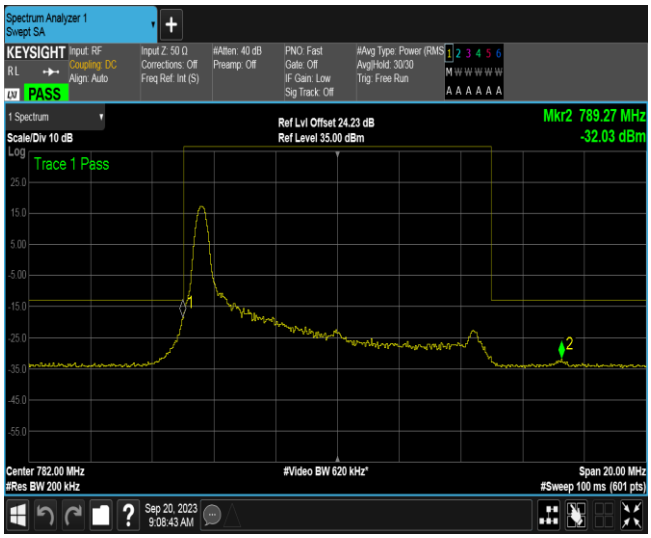

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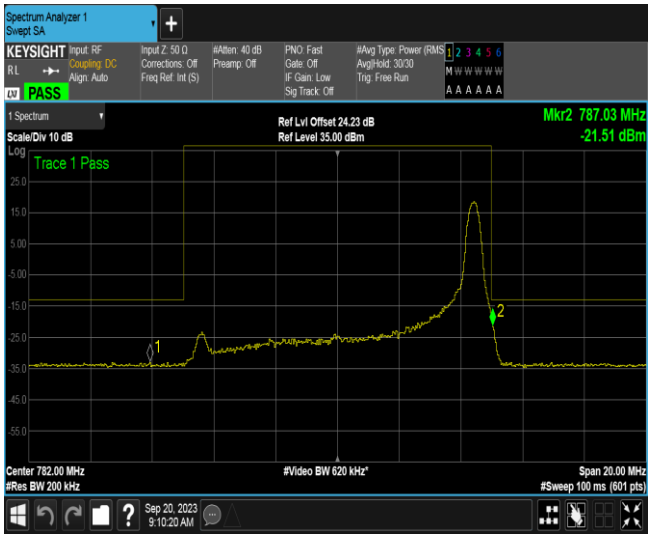

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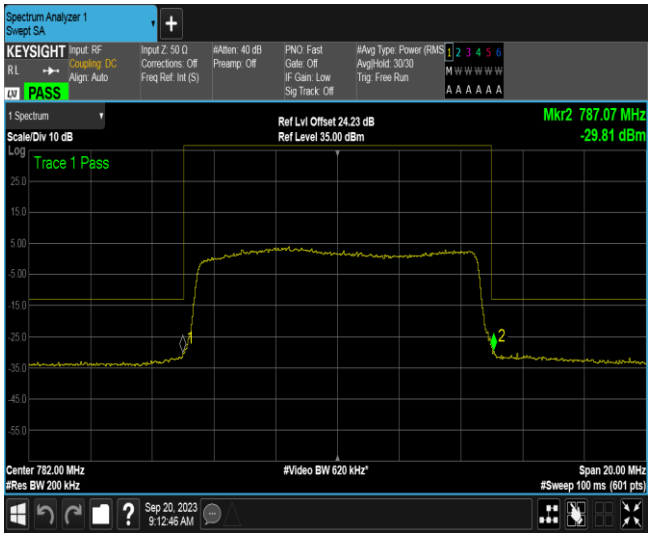

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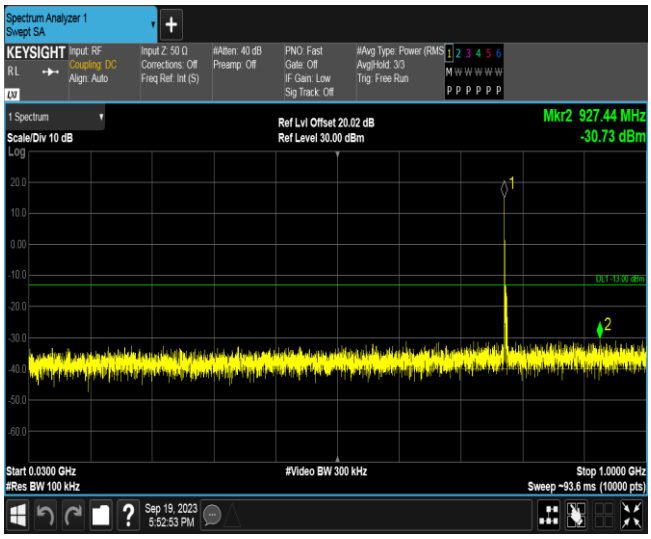
Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-30.73	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-31.96	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-30.52	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-31.54	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-30.37	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-30.66	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-30.61	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-31.37	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-29.05	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-30.7	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-30.69	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-31.16	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-30.96	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-31.21	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-31.09	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-31.3	PASS

Test Graphs

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



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

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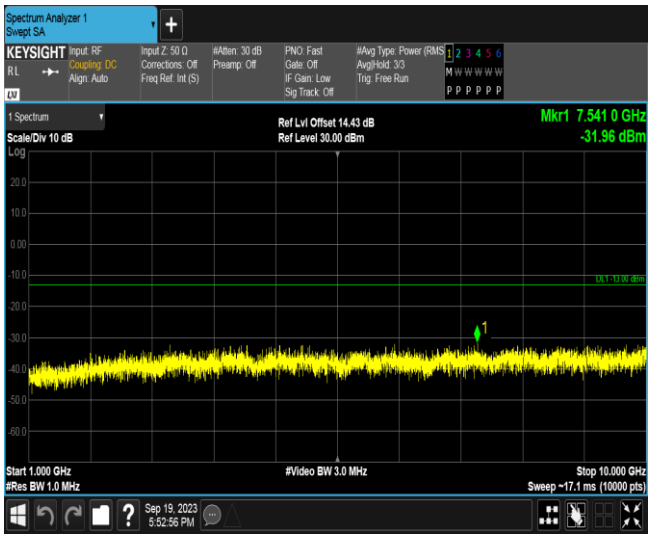

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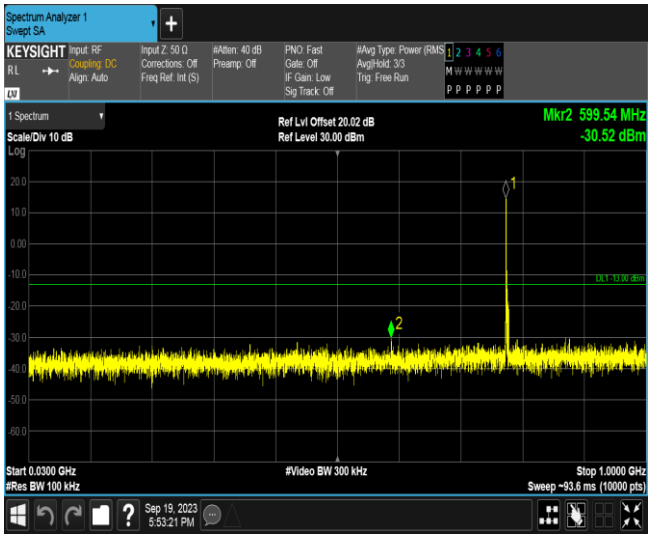

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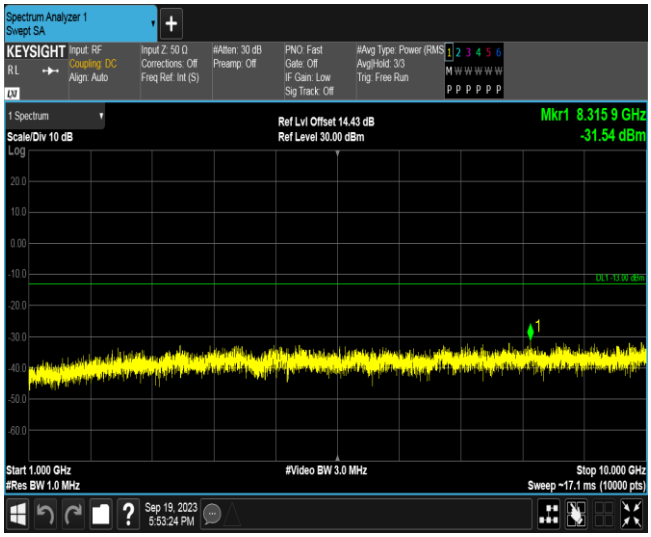

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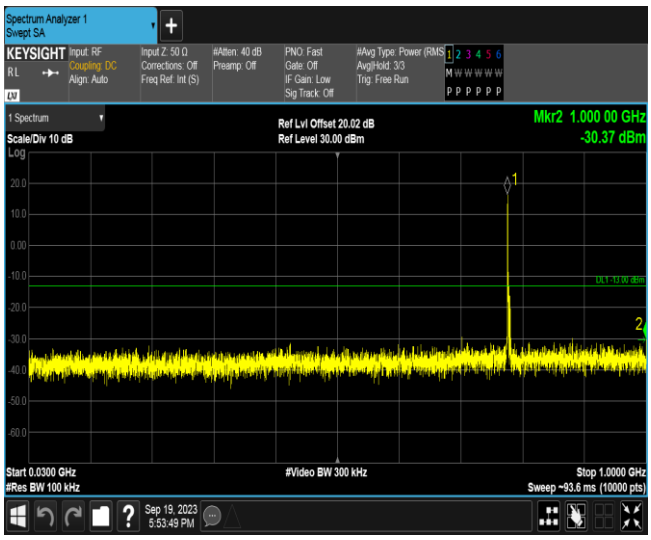
Band13-5MHz-QPSK-23255-1RB#0-Range1:30~1000MHz

Band13-5MHz-QPSK-23255-1RB#0-Range2:1000~10000MHz
Band13-5MHz-16QAM-23205-1RB#0-Range1:30~1000MHz

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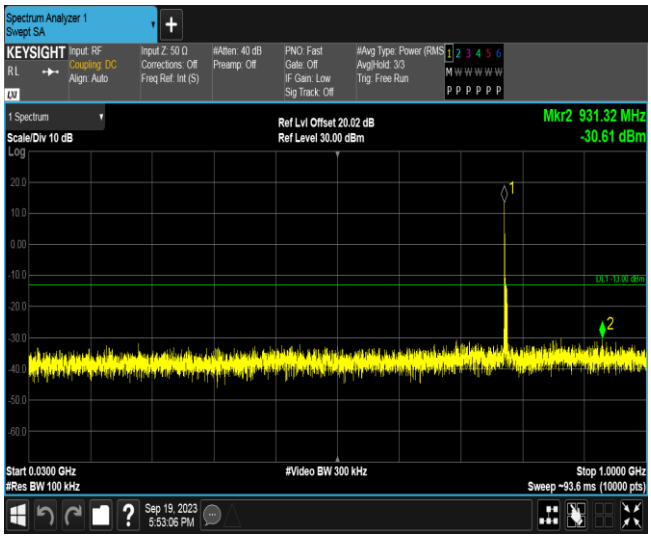
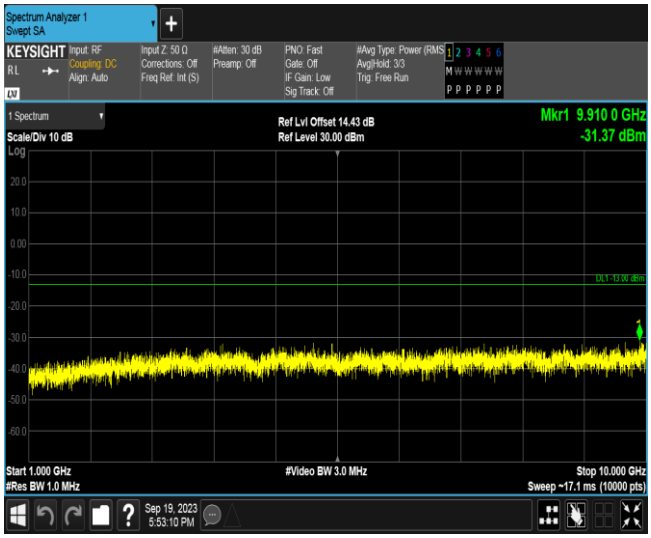
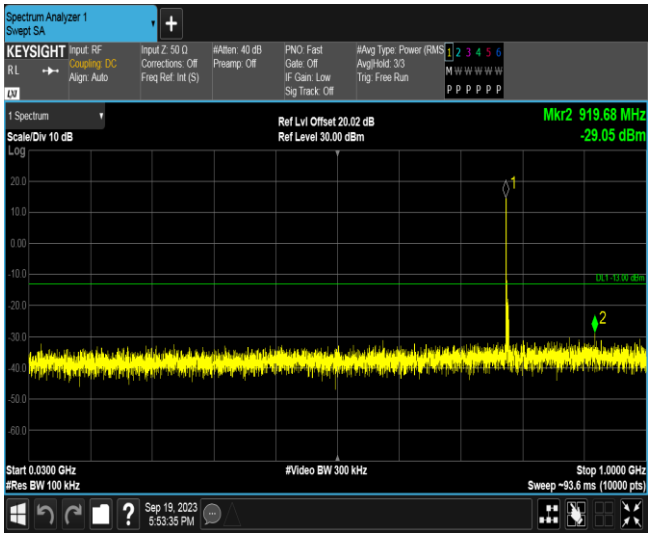


Band13-5MHz-16QAM-23205-1RB#0-Range2:1000~10000MHz



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



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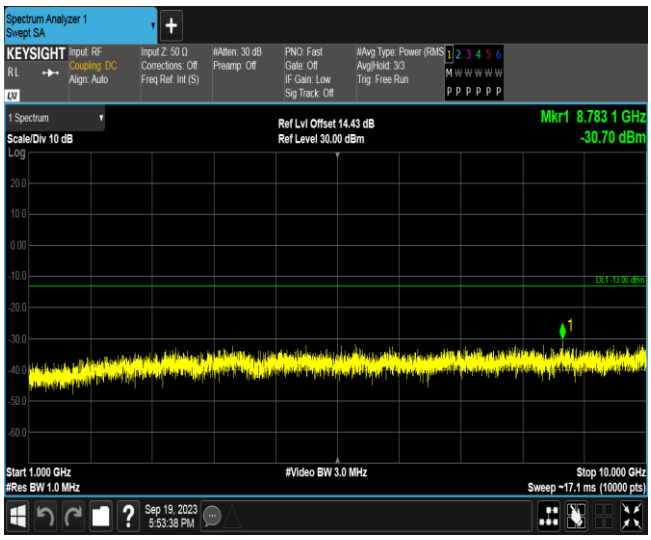
Band13-5MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



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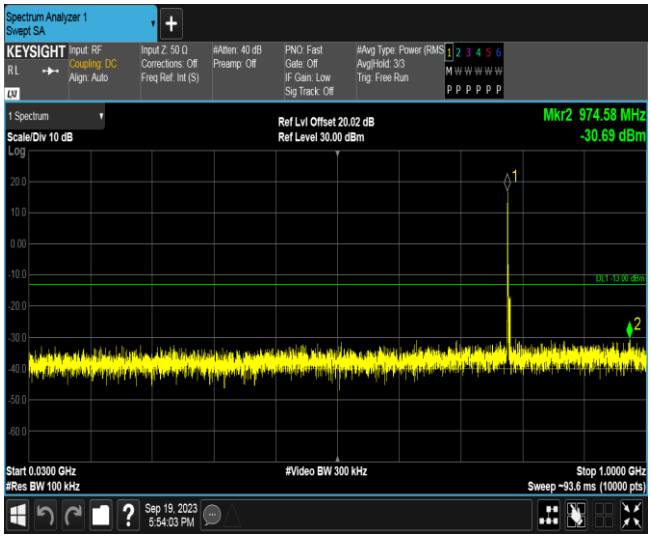

Band13-5MHz-16QAM-23255-1RB#0-Range2:1000~10000MHz

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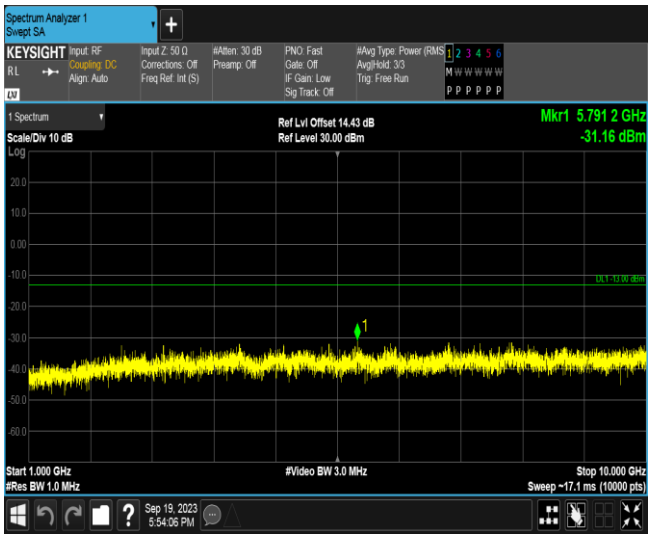
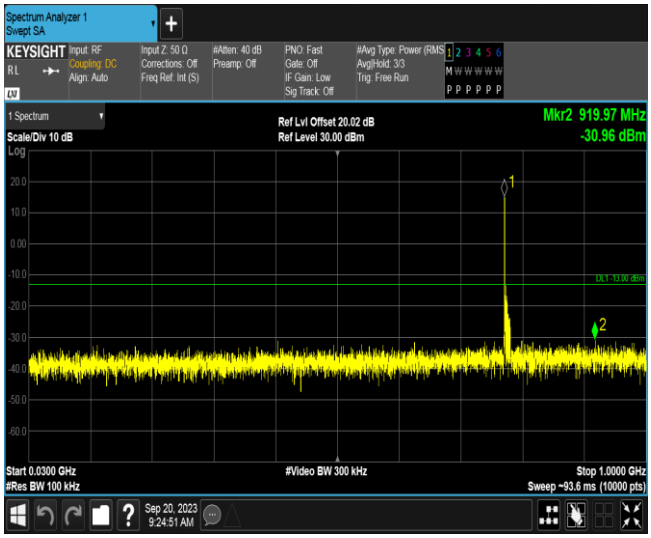
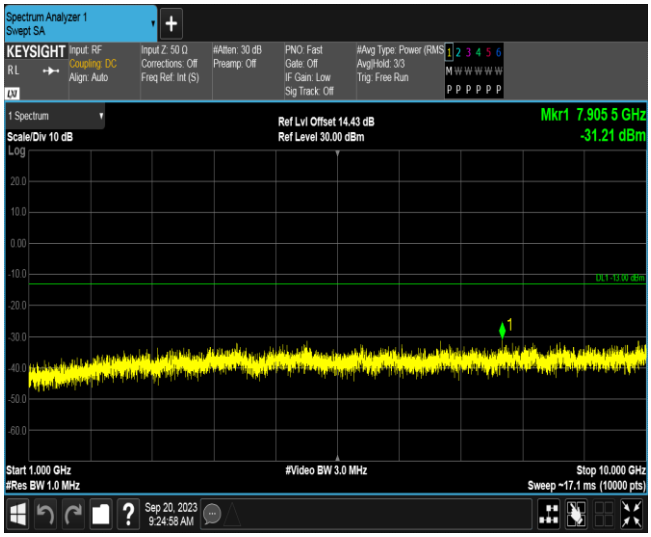


Band13-10MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



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



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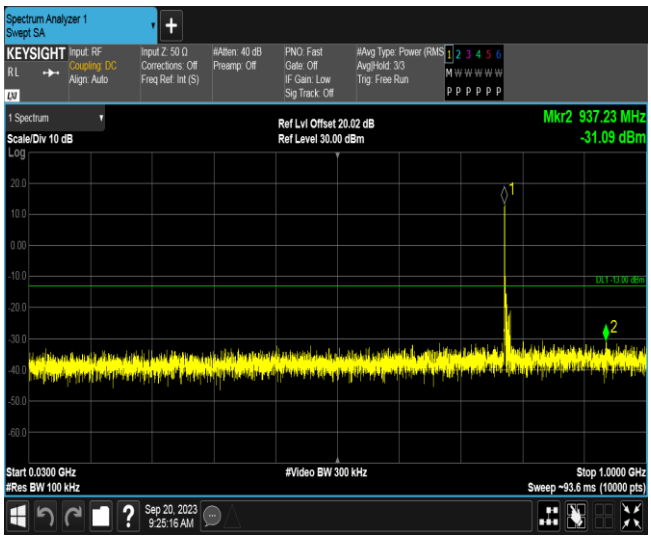
Band13-10MHz-16QAM-23230-1RB#0-Range1:30~1000MHz


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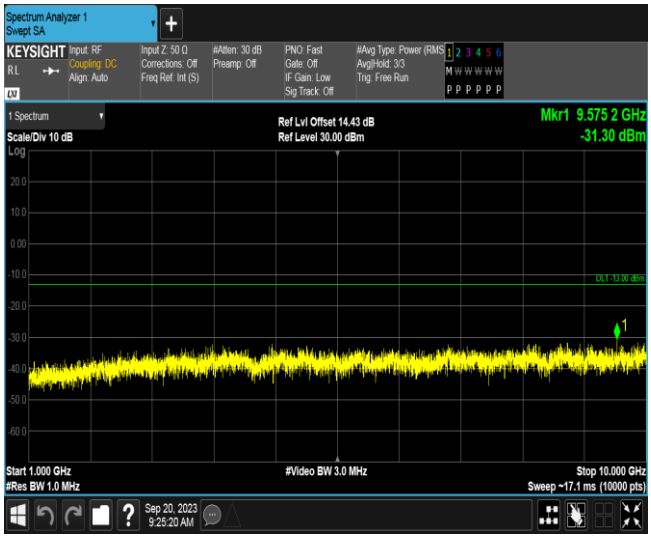

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Appendix F: Frequency Stability

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	-18.95	-0.024310	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	-49.12	-0.063015	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	-36.81	-0.047223	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-53.89	-0.068913	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	-26.92	-0.034425	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	-6.35	-0.008120	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	-28.94	-0.036890	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	-17.90	-0.022817	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	-18.24	-0.023250	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-18.30	-0.023477	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	-3.08	-0.003951	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	-37.51	-0.048121	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	-2.36	-0.003018	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	-5.74	-0.007340	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	-7.44	-0.009514	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	39.18	0.049943	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	17.80	0.022690	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	44.42	0.056622	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	13.79	0.017634	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	4.75	0.006074	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	26.29	0.033619	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	48.62	0.062174	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	44.47	0.056867	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	42.76	0.054680	±2.5	PASS

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	-51.33	-0.065850	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	-17.81	-0.022848	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-32.11	-0.041193	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-46.56	-0.059731	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	8.80	0.011289	±2.5	PASS

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Band13	5MHz	QPSK	23230	25RB#0	NV	-30	3.78	0.004834	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	12.43	0.015895	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	24.81	0.031726	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	32.19	0.041164	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	44.72	0.057187	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	10.24	0.013053	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	40.80	0.052008	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	19.53	0.024895	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	51.37	0.065481	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	32.94	0.041989	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	-9.78	-0.012547	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-25.63	-0.032880	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-43.72	-0.056087	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-4.82	-0.006183	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-16.04	-0.020577	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	-11.33	-0.014488	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	-24.06	-0.030767	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-27.71	-0.035435	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-32.57	-0.041650	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-39.44	-0.050435	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	51.56	0.065723	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	4.85	0.006182	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	7.57	0.009649	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	12.15	0.015488	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	13.65	0.017400	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	42.93	0.054898	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	56.96	0.072839	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	12.67	0.016202	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	22.07	0.028223	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	32.37	0.041394	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	37.28	0.047673	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	32.90	0.042072	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	27.81	0.035563	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	26.68	0.034118	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	23.93	0.030601	±2.5	PASS

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