Effective (Isotropic) Radiated Power Output Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Power (dBm)	Gain (dBi)	E(I)RP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18900	1	0	Low	20.58	1.59	22.17	33	PASS
Band2	1.4MHz	16QAM	18900	1	0	Low	20.22	1.59	21.81	33	PASS
Band2	1.4MHz	QPSK	18900	1	5	Low	20.68	1.59	22.27	33	PASS
Band2	1.4MHz	QPSK	18607	1	0	Low	20.59	1.59	22.18	33	PASS
Band2	1.4MHz	16QAM	18607	1	0	Low	20.07	1.59	21.66	33	PASS
Band2	1.4MHz	QPSK	18607	1	5	Low	20.45	1.59	22.04	33	PASS
Band2	1.4MHz	16QAM	18607	1	5	Low	19.85	1.59	21.44	33	PASS
Band2	1.4MHz	QPSK	18607	6	0	Low	18.95	1.59	20.54	33	PASS
Band2	1.4MHz	16QAM	18607	6	0	Low	19.05	1.59	20.64	33	PASS
Band2	1.4MHz	16QAM	18900	1	5	Low	20.12	1.59	21.71	33	PASS
Band2	1.4MHz	QPSK	18900	6	0	Low	19.06	1.59	20.65	33	PASS
Band2	1.4MHz	16QAM	18900	6	0	Low	19.06	1.59	20.65	33	PASS
Band2	1.4MHz	QPSK	19193	1	0	High	20.24	1.59	21.83	33	PASS
Band2	1.4MHz	16QAM	19193	1	0	High	20.02	1.59	21.61	33	PASS
Band2	1.4MHz	QPSK	19193	1	5	High	20.14	1.59	21.73	33	PASS
Band2	1.4MHz	16QAM	19193	1	5	High	20.1	1.59	21.69	33	PASS
Band2	1.4MHz	QPSK	19193	6	0	High	19.07	1.59	20.66	33	PASS
Band2	1.4MHz	16QAM	19193	6	0	High	19.08	1.59	20.67	33	PASS
Band2	3MHz	QPSK	18615	1	0	Low	20.27	1.59	21.86	33	PASS
Band2	3MHz	16QAM	18615	1	0	Low	20.1	1.59	21.69	33	PASS
Band2	3MHz	QPSK	18615	1	5	Low	20.23	1.59	21.82	33	PASS
Band2	3MHz	16QAM	18615	1	5	Low	20.09	1.59	21.68	33	PASS
Band2	3MHz	QPSK	18615	6	0	Low	19.15	1.59	20.74	33	PASS
Band2	3MHz	16QAM	18615	6	0	Low	19.02	1.59	20.61	33	PASS
Band2	3MHz	QPSK	18900	1	0	Low	20.51	1.59	22.1	33	PASS
Band2	3MHz	16QAM	18900	1	0	Low	20.24	1.59	21.83	33	PASS
Band2	3MHz	QPSK	18900	1	5	Low	20.52	1.59	22.11	33	PASS
Band2	3MHz	16QAM	18900	1	5	Low	20.06	1.59	21.65	33	PASS
Band2	3MHz	QPSK	18900	6	0	Low	19.01	1.59	20.6	33	PASS
Band2	3MHz	16QAM	18900	6	0	Low	19.09	1.59	20.68	33	PASS
Band2	3MHz	QPSK	19185	1	0	High	20.44	1.59	22.03	33	PASS
Band2	3MHz	16QAM	19185	1	0	High	20.15	1.59	21.74	33	PASS
Band2	3MHz	QPSK	19185	1	5	High	20.17	1.59	21.76	33	PASS
Band2	3MHz	16QAM	19185	1	5	High	20.13	1.59	21.72	33	PASS

Band2	3MHz	QPSK	19185	6	0	High	19.11	1.59	20.7	33	PASS
Band2	3MHz	16QAM	19185	6	0	High	19.12	1.59	20.71	33	PASS
Band2	5MHz	QPSK	18625	1	0	Low	20.53	1.59	22.12	33	PASS
Band2	5MHz	16QAM	18625	1	0	Low	20.66	1.59	22.25	33	PASS
Band2	5MHz	QPSK	18625	1	5	Low	20.31	1.59	21.9	33	PASS
Band2	5MHz	16QAM	18625	1	5	Low	20.42	1.59	22.01	33	PASS
Band2	5MHz	QPSK	18625	6	0	Low	19.83	1.59	21.42	33	PASS
Band2	5MHz	16QAM	18625	6	0	Low	19.93	1.59	21.52	33	PASS
Band2	5MHz	QPSK	18900	1	0	Low	20.44	1.59	22.03	33	PASS
Band2	5MHz	16QAM	18900	1	0	Low	20.76	1.59	22.35	33	PASS
Band2	5MHz	QPSK	18900	1	5	Low	20.46	1.59	22.05	33	PASS
Band2	5MHz	16QAM	18900	1	5	Low	20.55	1.59	22.14	33	PASS
Band2	5MHz	QPSK	18900	6	0	Low	19.9	1.59	21.49	33	PASS
Band2	5MHz	16QAM	18900	6	0	Low	20.01	1.59	21.6	33	PASS
Band2	5MHz	QPSK	19175	1	0	High	20.34	1.59	21.93	33	PASS
Band2	5MHz	16QAM	19175	1	0	High	20.58	1.59	22.17	33	PASS
Band2	5MHz	QPSK	19175	1	5	High	20.42	1.59	22.01	33	PASS
Band2	5MHz	16QAM	19175	1	5	High	20.5	1.59	22.09	33	PASS
Band2	5MHz	QPSK	19175	6	0	High	19.83	1.59	21.42	33	PASS
Band2	5MHz	16QAM	19175	6	0	High	19.92	1.59	21.51	33	PASS
Band2	10MHz	QPSK	18650	1	0	Low	20.42	1.59	22.01	33	PASS
Band2	10MHz	16QAM	18650	1	0	Low	20.6	1.59	22.19	33	PASS
Band2	10MHz	QPSK	18650	1	5	Low	20.31	1.59	21.9	33	PASS
Band2	10MHz	16QAM	18650	1	5	Low	20.46	1.59	22.05	33	PASS
Band2	10MHz	QPSK	18650	6	0	Low	19.9	1.59	21.49	33	PASS
Band2	10MHz	16QAM	18650	6	0	Low	20	1.59	21.59	33	PASS
Band2	10MHz	QPSK	18900	1	0	Low	20.41	1.59	22	33	PASS
Band2	10MHz	16QAM	18900	1	0	Low	20.76	1.59	22.35	33	PASS
Band2	10MHz	QPSK	18900	1	5	Low	20.41	1.59	22	33	PASS
Band2	10MHz	16QAM	18900	1	5	Low	20.51	1.59	22.1	33	PASS
Band2	10MHz	QPSK	18900	6	0	Low	19.94	1.59	21.53	33	PASS
Band2	10MHz	16QAM	18900	6	0	Low	19.94	1.59	21.53	33	PASS
Band2	10MHz	QPSK	19150	1	0	High	20.42	1.59	22.01	33	PASS
Band2	10MHz	16QAM	19150	1	0	High	20.64	1.59	22.23	33	PASS
Band2	10MHz	QPSK	19150	1	5	High	20.45	1.59	22.04	33	PASS
Band2	10MHz	16QAM	19150	1	5	High	20.5	1.59	22.09	33	PASS
Band2	10MHz	QPSK	19150	6	0	High	19.85	1.59	21.44	33	PASS
Band2	10MHz	16QAM	19150	6	0	High	19.94	1.59	21.53	33	PASS
Band2	15MHz	QPSK	18675	1	0	Low	20.38	1.59	21.97	33	PASS
Band2	15MHz	16QAM	18675	1	0	Low	20.58	1.59	22.17	33	PASS
Band2	15MHz	QPSK	18675	1	5	Low	20.29	1.59	21.88	33	PASS

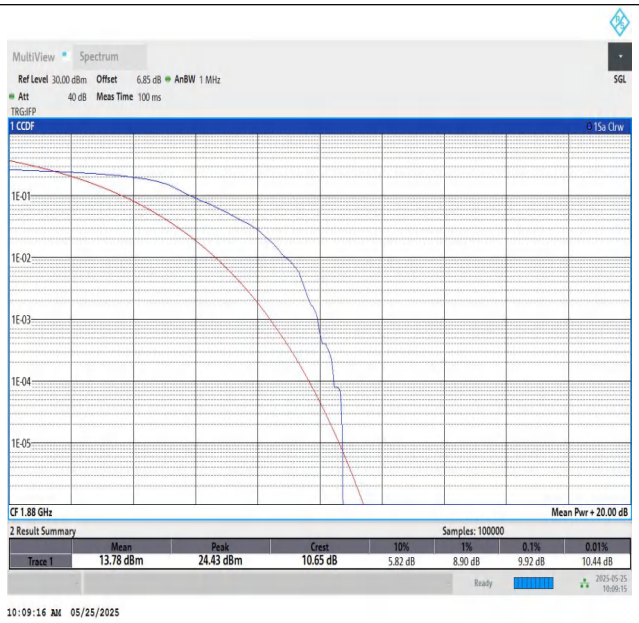
Band2	15MHz	16QAM	18675	1	5	Low	20.37	1.59	21.96	33	PASS
Band2	15MHz	QPSK	18675	6	0	Low	20.27	1.59	21.86	33	PASS
Band2	15MHz	16QAM	18675	6	0	Low	20.36	1.59	21.95	33	PASS
Band2	15MHz	QPSK	18900	1	0	Low	20.44	1.59	22.03	33	PASS
Band2	15MHz	16QAM	18900	1	0	Low	20.74	1.59	22.33	33	PASS
Band2	15MHz	QPSK	18900	1	5	Low	20.44	1.59	22.03	33	PASS
Band2	15MHz	16QAM	18900	1	5	Low	20.52	1.59	22.11	33	PASS
Band2	15MHz	QPSK	18900	6	0	Low	20.23	1.59	21.82	33	PASS
Band2	15MHz	16QAM	18900	6	0	Low	20.36	1.59	21.95	33	PASS
Band2	15MHz	QPSK	19125	1	0	High	20.43	1.59	22.02	33	PASS
Band2	15MHz	16QAM	19125	1	0	High	20.63	1.59	22.22	33	PASS
Band2	15MHz	QPSK	19125	1	5	High	20.44	1.59	22.03	33	PASS
Band2	15MHz	16QAM	19125	1	5	High	20.5	1.59	22.09	33	PASS
Band2	15MHz	QPSK	19125	6	0	High	20.25	1.59	21.84	33	PASS
Band2	15MHz	16QAM	19125	6	0	High	20.34	1.59	21.93	33	PASS
Band2	20MHz	QPSK	18700	1	0	Low	20.5	1.59	22.09	33	PASS
Band2	20MHz	16QAM	18700	1	0	Low	20.63	1.59	22.22	33	PASS
Band2	20MHz	QPSK	18700	1	5	Low	20.32	1.59	21.91	33	PASS
Band2	20MHz	16QAM	18700	1	5	Low	20.47	1.59	22.06	33	PASS
Band2	20MHz	QPSK	18700	6	0	Low	20.2	1.59	21.79	33	PASS
Band2	20MHz	16QAM	18700	6	0	Low	20.28	1.59	21.87	33	PASS
Band2	20MHz	QPSK	18900	1	0	Low	20.5	1.59	22.09	33	PASS
Band2	20MHz	16QAM	18900	1	0	Low	20.78	1.59	22.37	33	PASS
Band2	20MHz	QPSK	18900	1	5	Low	20.61	1.59	22.2	33	PASS
Band2	20MHz	16QAM	18900	1	5	Low	20.6	1.59	22.19	33	PASS
Band2	20MHz	QPSK	18900	6	0	Low	20.32	1.59	21.91	33	PASS
Band2	20MHz	16QAM	18900	6	0	Low	20.43	1.59	22.02	33	PASS
Band2	20MHz	QPSK	19100	1	0	High	20.46	1.59	22.05	33	PASS
Band2	20MHz	16QAM	19100	1	0	High	20.62	1.59	22.21	33	PASS
Band2	20MHz	QPSK	19100	1	5	High	20.45	1.59	22.04	33	PASS
Band2	20MHz	16QAM	19100	1	5	High	20.54	1.59	22.13	33	PASS
Band2	20MHz	QPSK	19100	6	0	High	20.28	1.59	21.87	33	PASS
Band2	20MHz	16QAM	19100	6	0	High	20.28	1.59	21.87	33	PASS

Peak-to-Average Ratio(CCDF) for M1

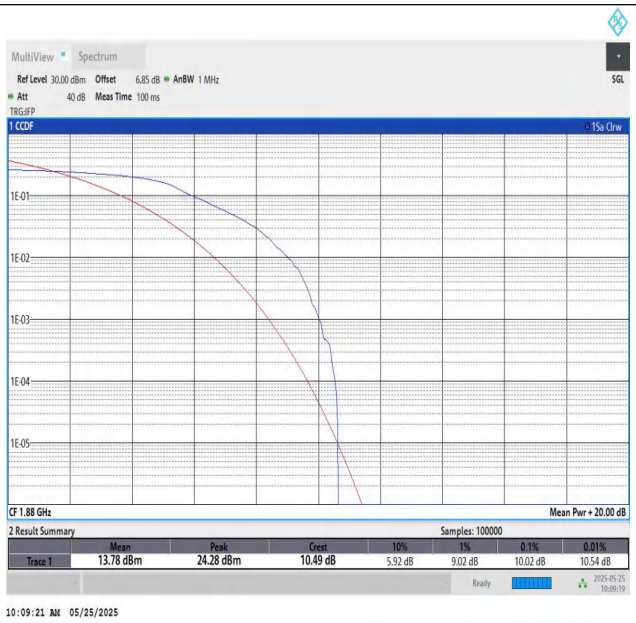
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	18900	QPSK	6	0	Low	9.92	13	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	10.02	13	PASS
Band2	3MHz	18900	QPSK	6	0	Low	9.26	13	PASS
Band2	3MHz	18900	16QAM	6	0	Low	10.18	13	PASS
Band2	5MHz	18900	QPSK	6	0	Low	9.72	13	PASS
Band2	5MHz	18900	16QAM	6	0	Low	9.72	13	PASS
Band2	10MHz	18900	QPSK	6	0	Low	9.66	13	PASS
Band2	10MHz	18900	16QAM	6	0	Low	9.66	13	PASS
Band2	15MHz	18900	QPSK	6	0	Low	6.78	13	PASS
Band2	15MHz	18900	16QAM	6	0	Low	6.88	13	PASS
Band2	20MHz	18900	QPSK	6	0	Low	6.66	13	PASS
Band2	20MHz	18900	16QAM	6	0	Low	6.66	13	PASS

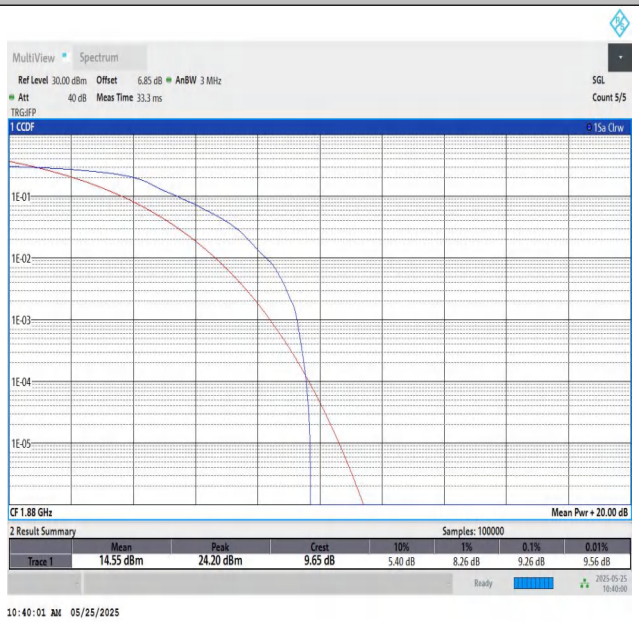
Test Graphs



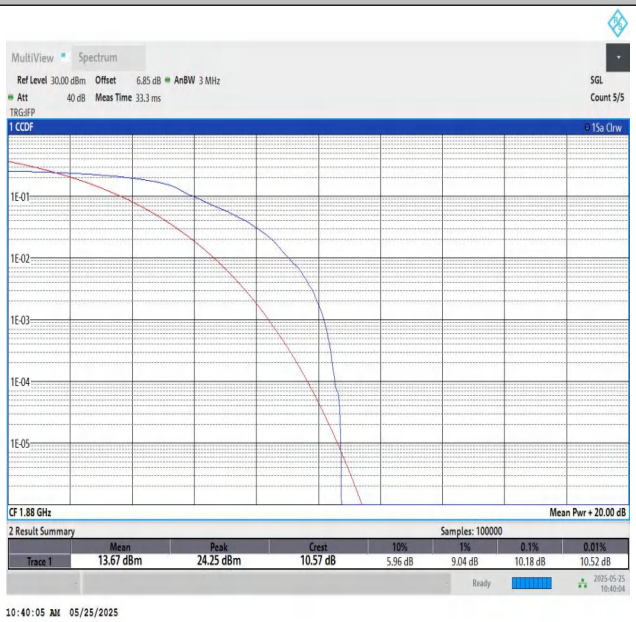
Band2-1.4MHz-QPSK-18900-PASS



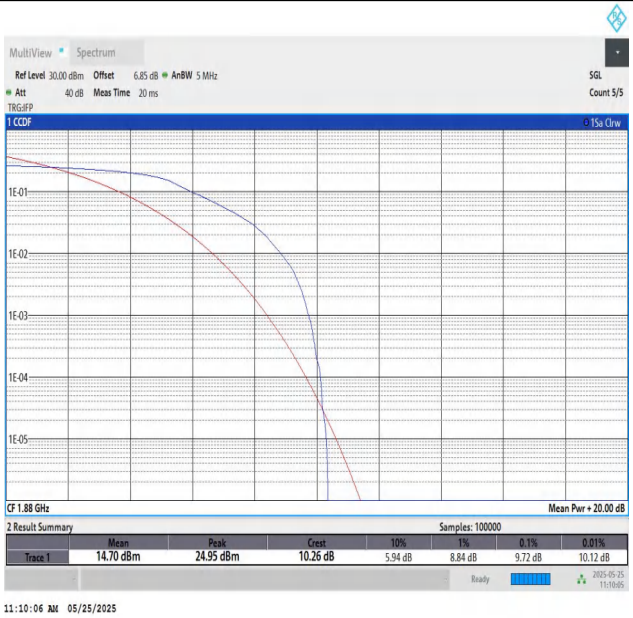
Band2-1.4MHz-16QAM-18900-PASS



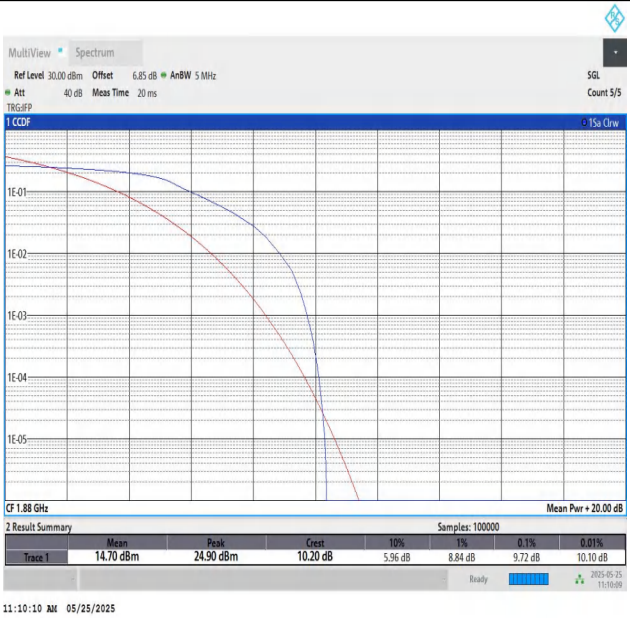
Band2-3MHz-QPSK-18900-PASS



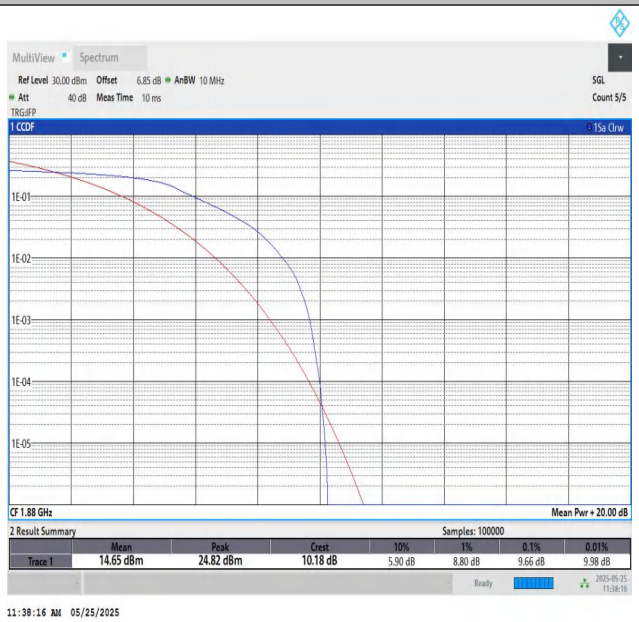
Band2-3MHz-16QAM-18900-PASS



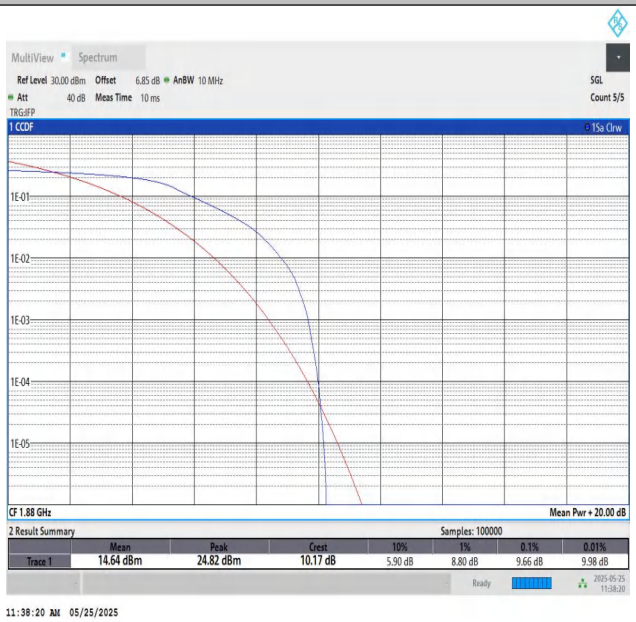
Band2-5MHz-QPSK-18900-PASS



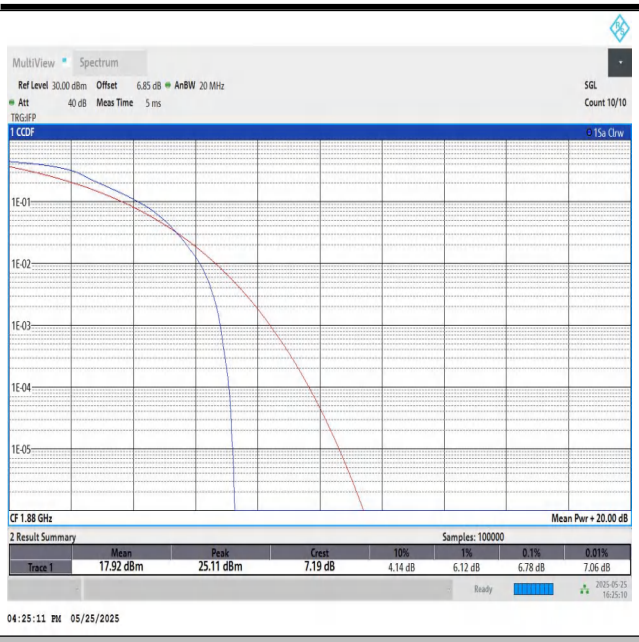
Band2-5MHz-16QAM-18900-PASS



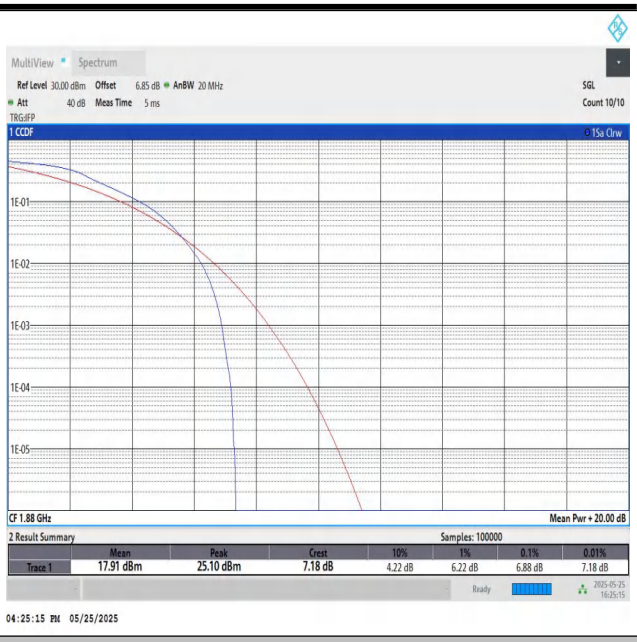
Band2-10MHz-QPSK-18900-PASS



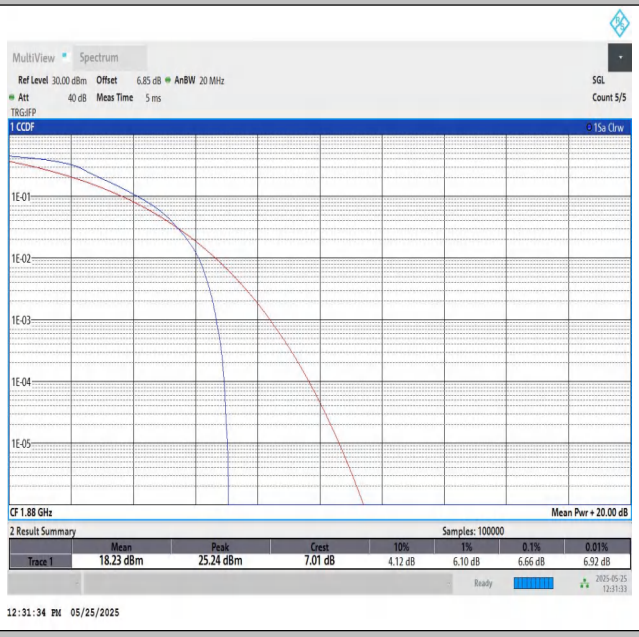
Band2-10MHz-16QAM-18900-PASS



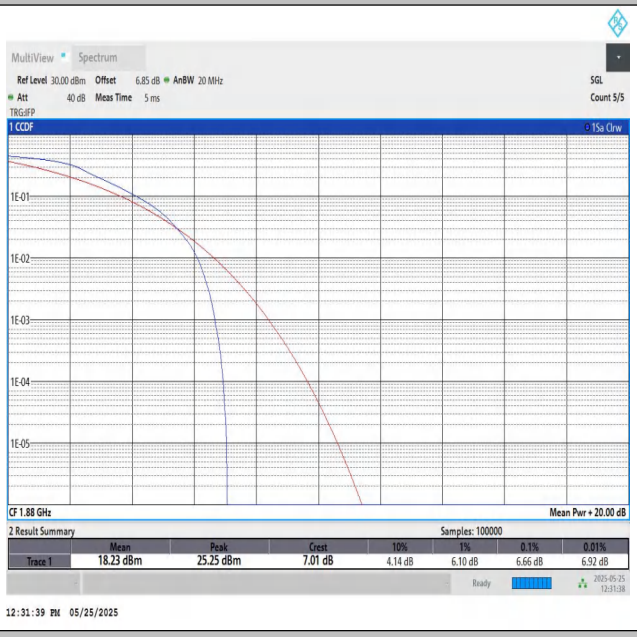
Band2-15MHz-QPSK-18900-PASS



Band2-15MHz-16QAM-18900-PASS



Band2-20MHz-QPSK-18900-PASS



Band2-20MHz-16QAM-18900-PASS

26dB Bandwidth and Occupied Bandwidth for M1

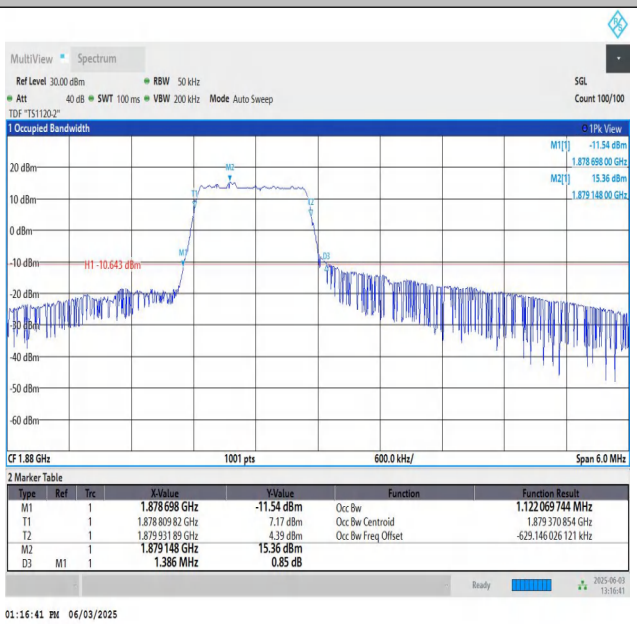
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	18900	QPSK	6	0	Low	1.092	1.287	PASS
Band2	1.4MHz	18900	16QAM	6	0	Low	1.092	1.284	PASS
Band2	3MHz	18900	QPSK	6	0	Low	1.122	1.386	PASS
Band2	3MHz	18900	16QAM	6	0	Low	1.124	1.392	PASS
Band2	5MHz	18900	QPSK	6	0	Low	1.205	1.640	PASS
Band2	5MHz	18900	16QAM	6	0	Low	1.203	1.700	PASS
Band2	10MHz	18900	QPSK	6	0	Low	1.797	3.520	PASS
Band2	10MHz	18900	16QAM	6	0	Low	1.775	3.500	PASS
Band2	15MHz	18900	QPSK	6	0	Low	2.386	4.350	PASS
Band2	15MHz	18900	16QAM	6	0	Low	2.358	4.200	PASS
Band2	20MHz	18900	QPSK	6	0	Low	3.783	5.760	PASS
Band2	20MHz	18900	16QAM	6	0	Low	3.786	5.840	PASS

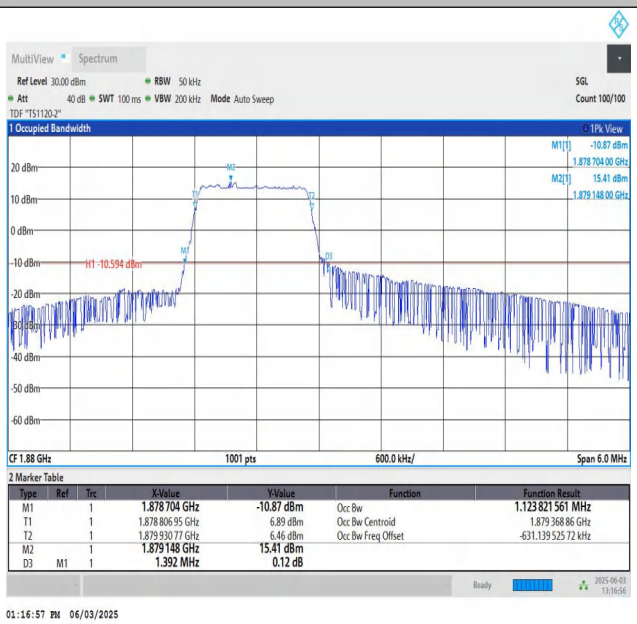
Test Graphs

Band2-1.4MHz-QPSK-18900-PASS

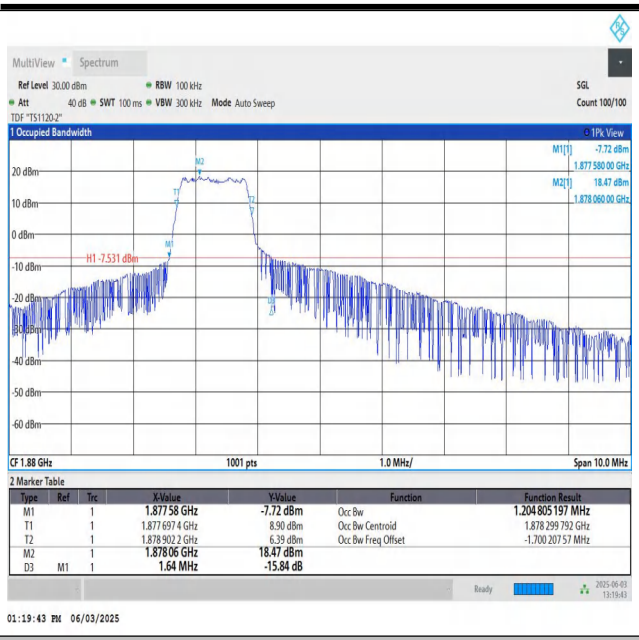
Band2-1.4MHz-16QAM-18900-PASS



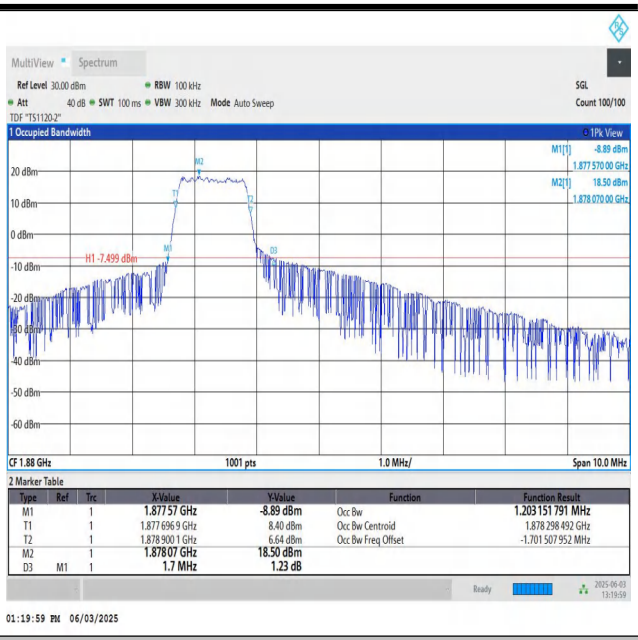
Band2-3MHz-QPSK-18900-PASS



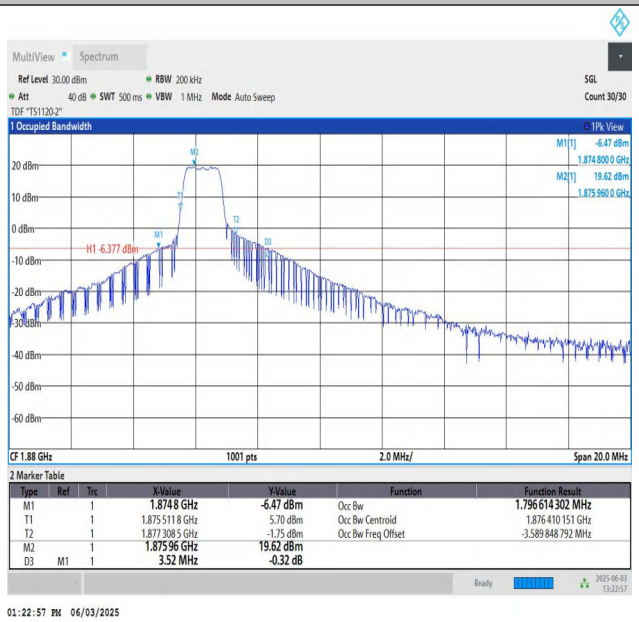
Band2-3MHz-16QAM-18900-PASS



Band2-5MHz-QPSK-18900-PASS

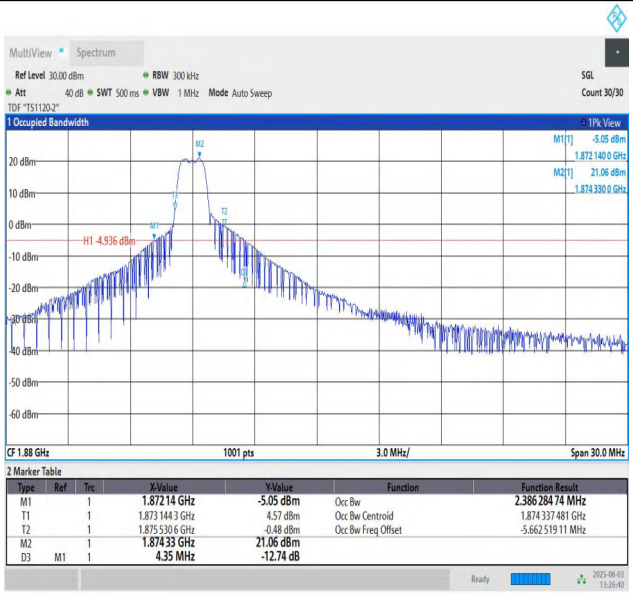


Band2-5MHz-16QAM-18900-PASS

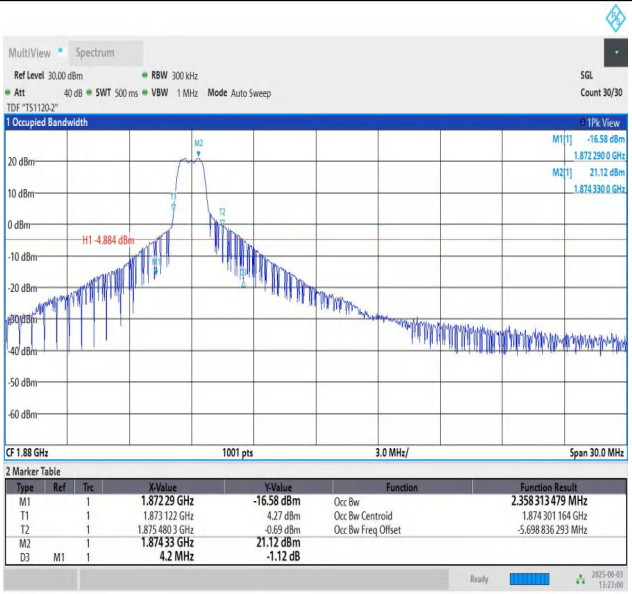


Band2-10MHz-QPSK-18900-PASS

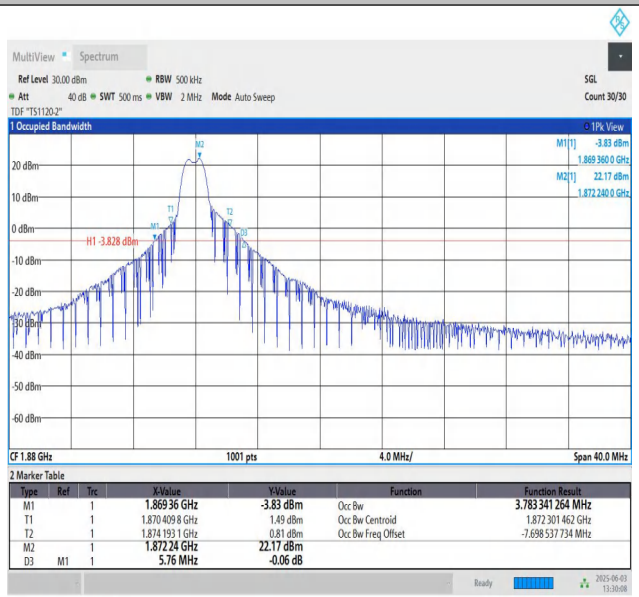
Band2-10MHz-16QAM-18900-PASS



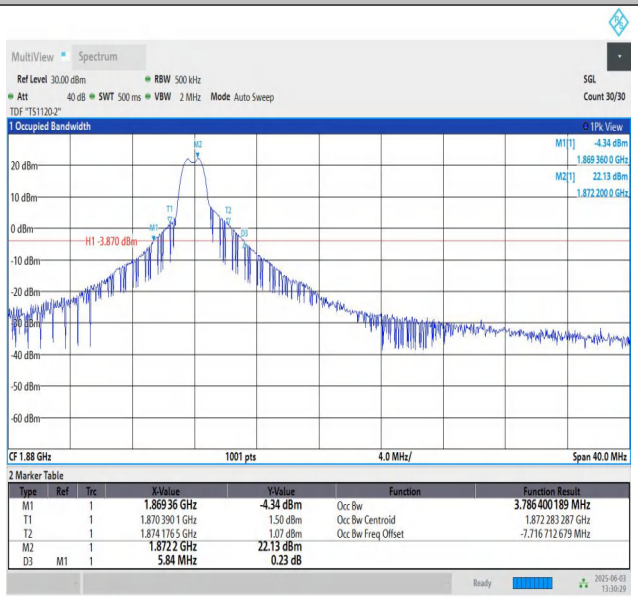
Band2-15MHz-QPSK-18900-PASS



Band2-15MHz-16QAM-18900-PASS



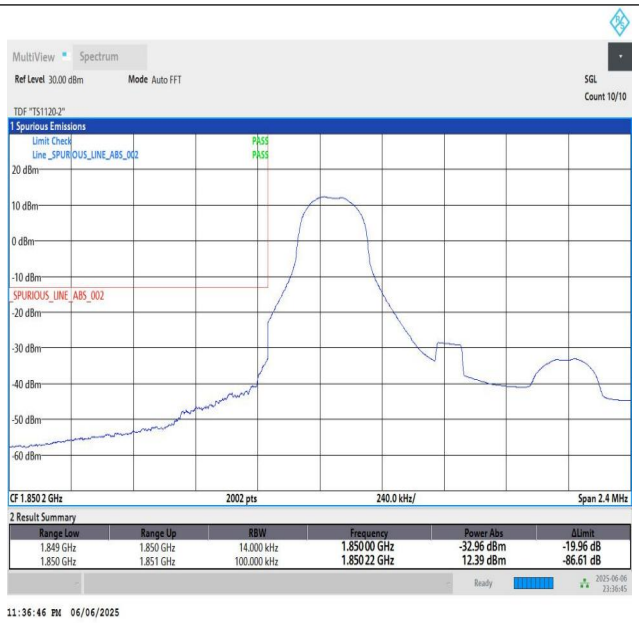
Band2-20MHz-QPSK-18900-PASS



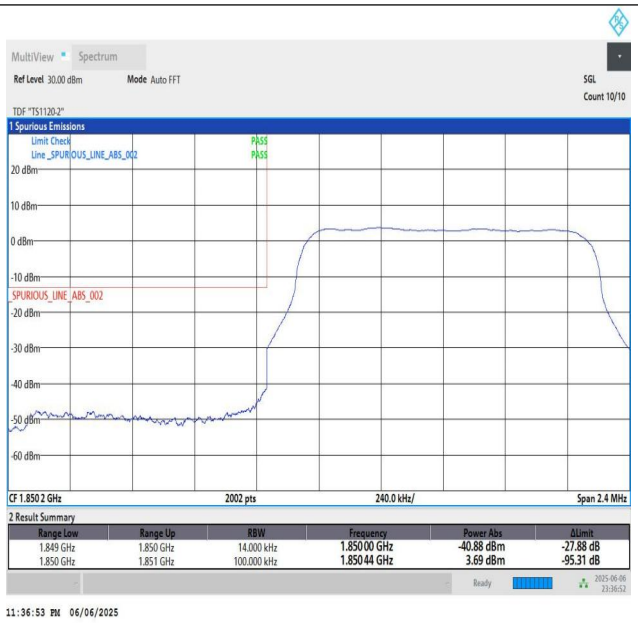
Band2-20MHz-16QAM-18900-PASS

Band Edge for M1

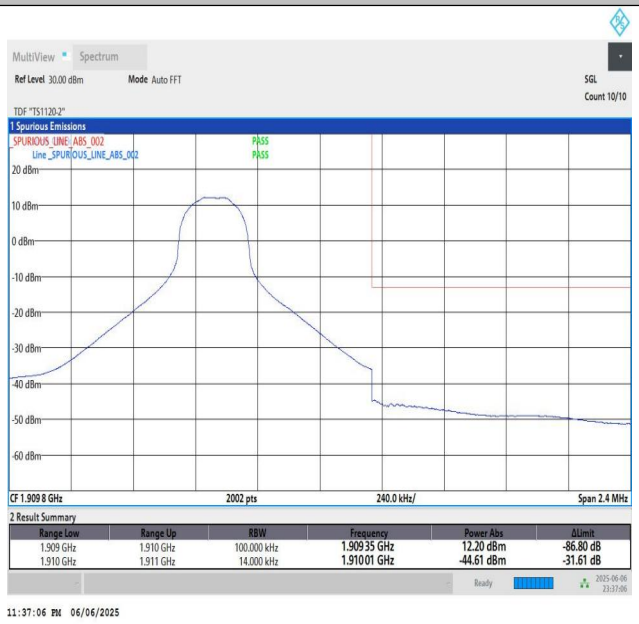
Test Graphs



Band2_1.4MHz_QPSK_18607_1_Low

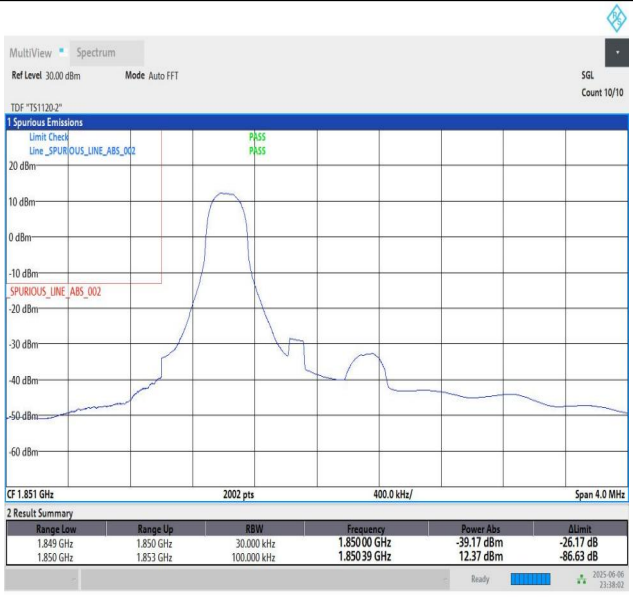


Band2_1.4MHz_QPSK_18607_6_Low



Band2_1.4MHz_QPSK_19193_1_High

Band2_1.4MHz_QPSK_19193_6_High



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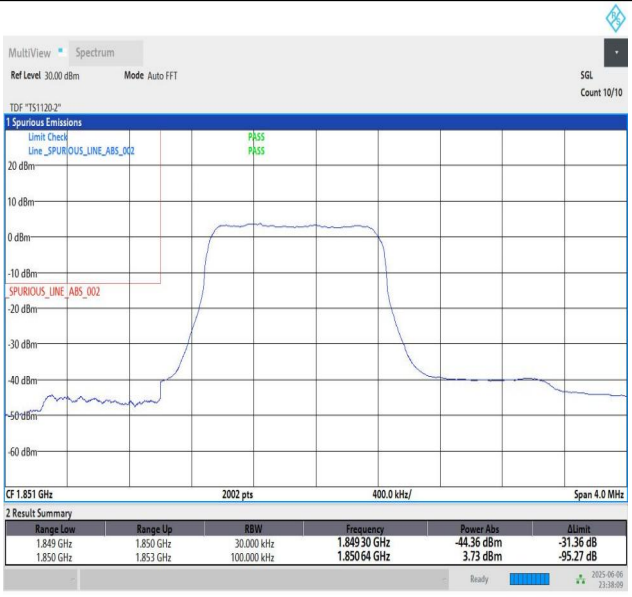

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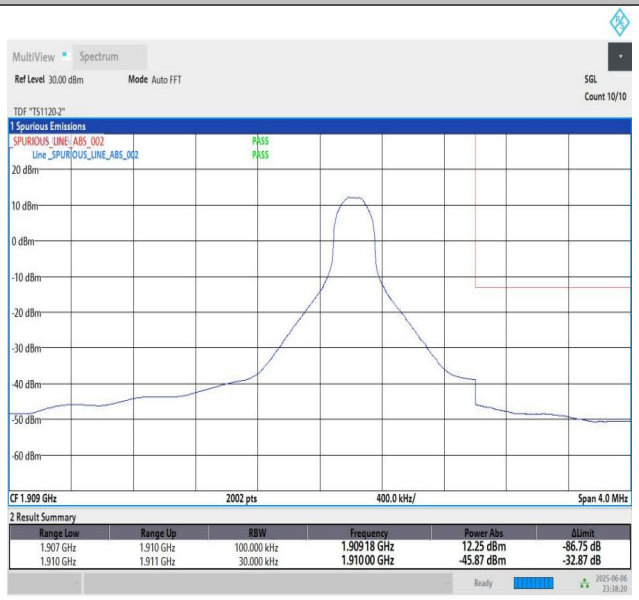
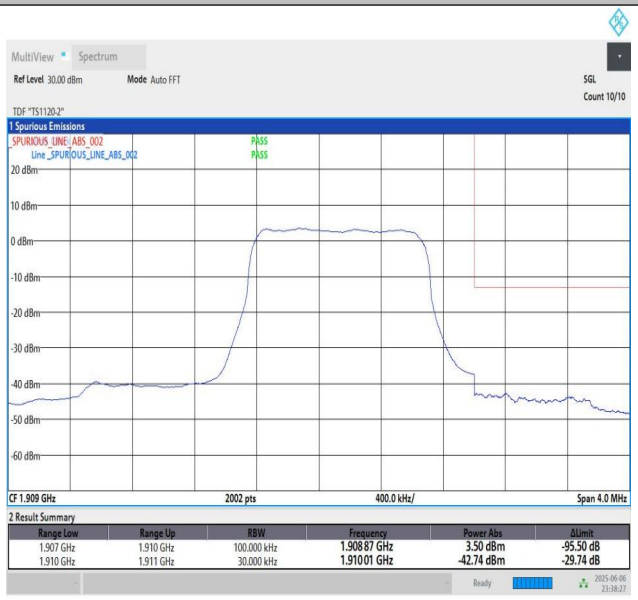
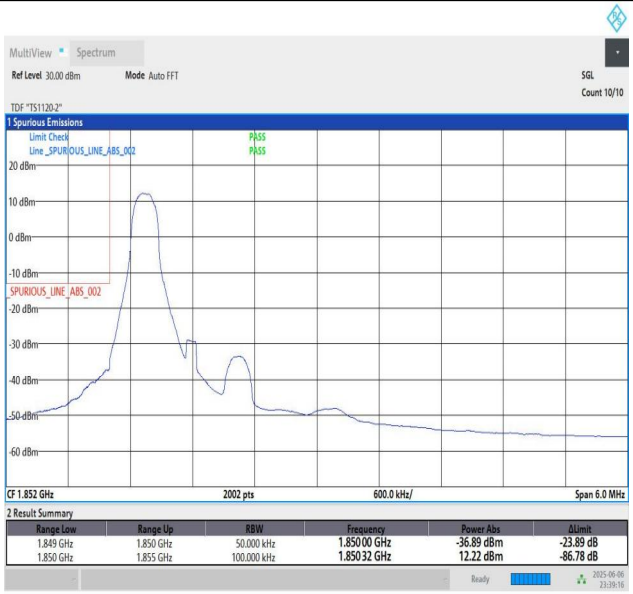


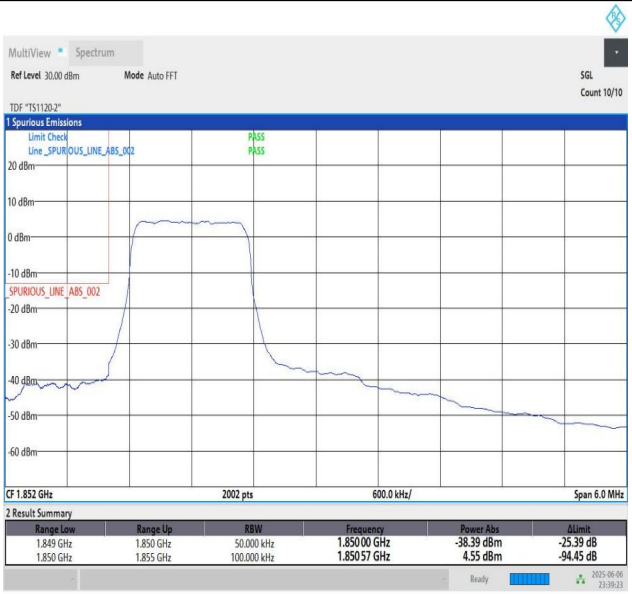
Band2_3MHz_QPSK_19185_1_High



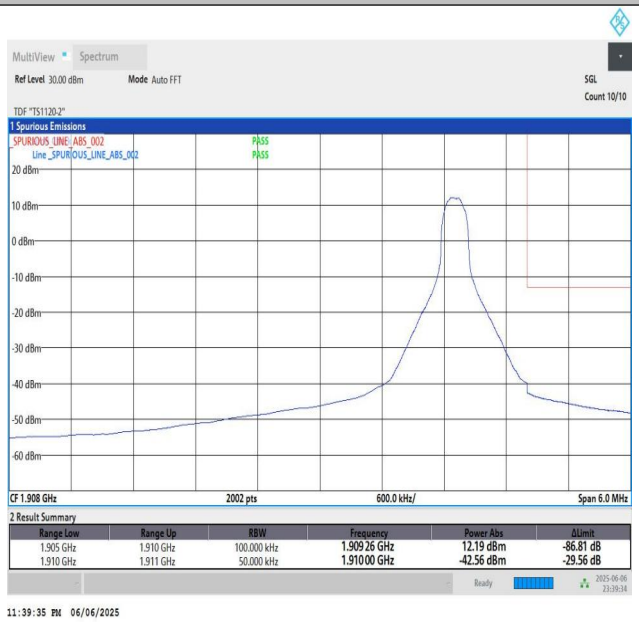
Band2_3MHz_QPSK_19185_6_High



Band2_5MHz_QPSK_18625_1_Low

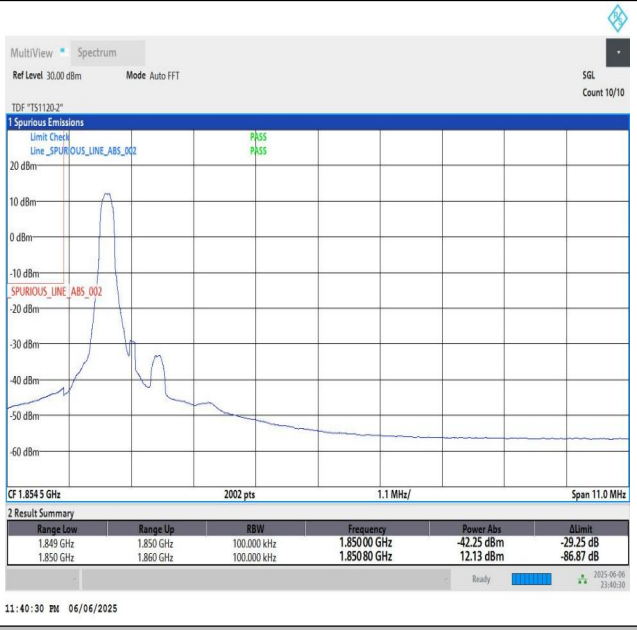


Band2_5MHz_QPSK_18625_6_Low

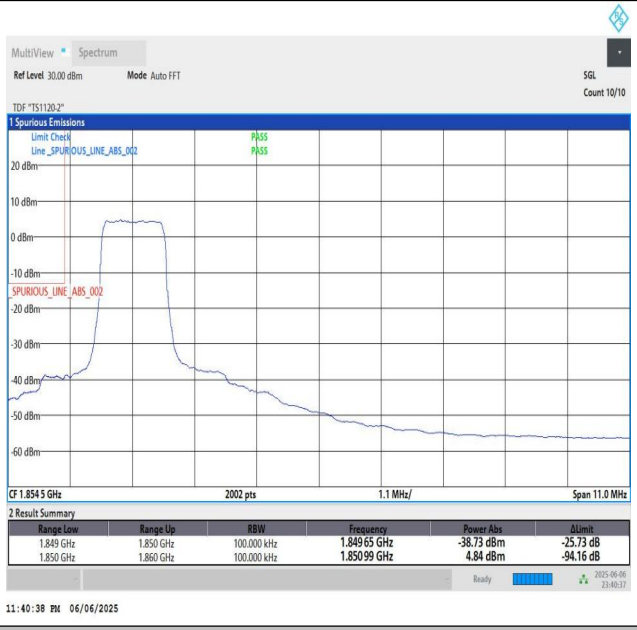


Band2_5MHz_QPSK_19175_1_High

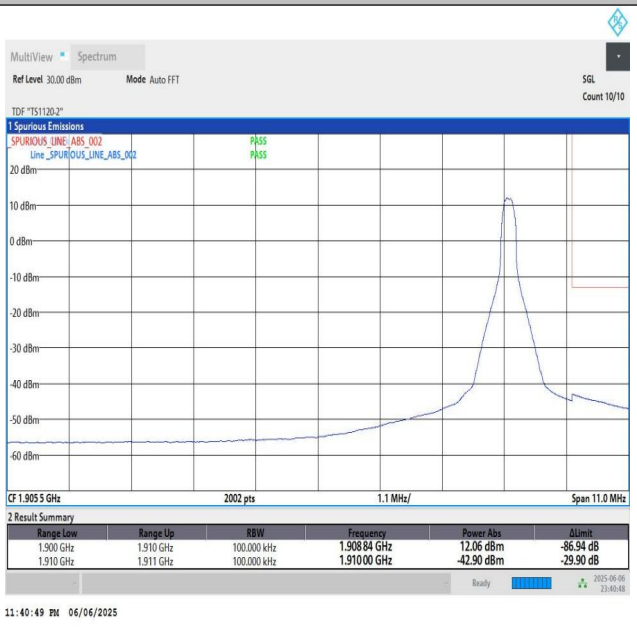
Band2_5MHz_QPSK_19175_6_High



Band2_10MHz_QPSK_18650_1_Low

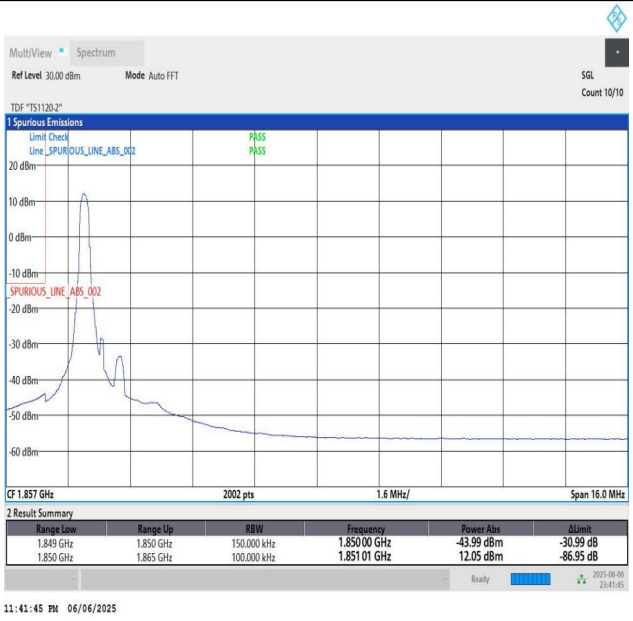


Band2_10MHz_QPSK_18650_6_Low

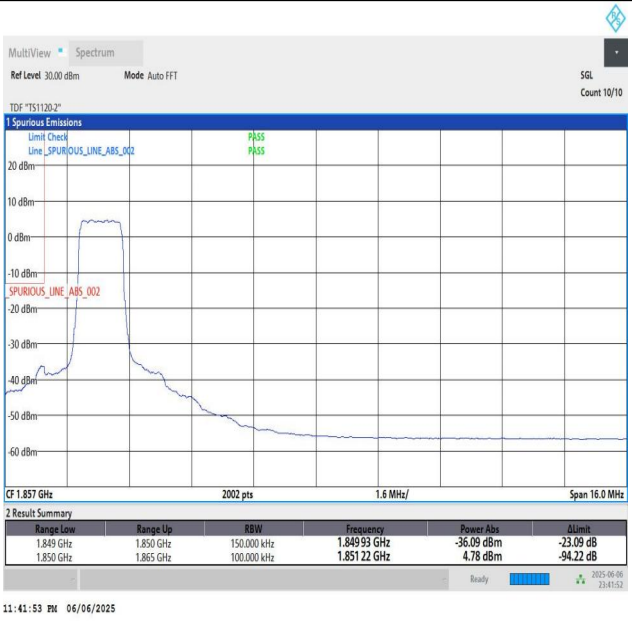


Band2_10MHz_QPSK_19150_1_High

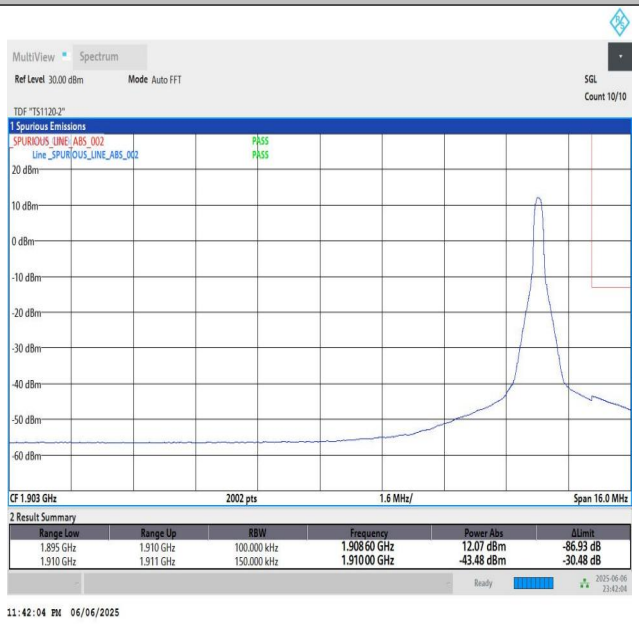
Band2_10MHz_QPSK_19150_6_High



Band2_15MHz_QPSK_18675_1_Low

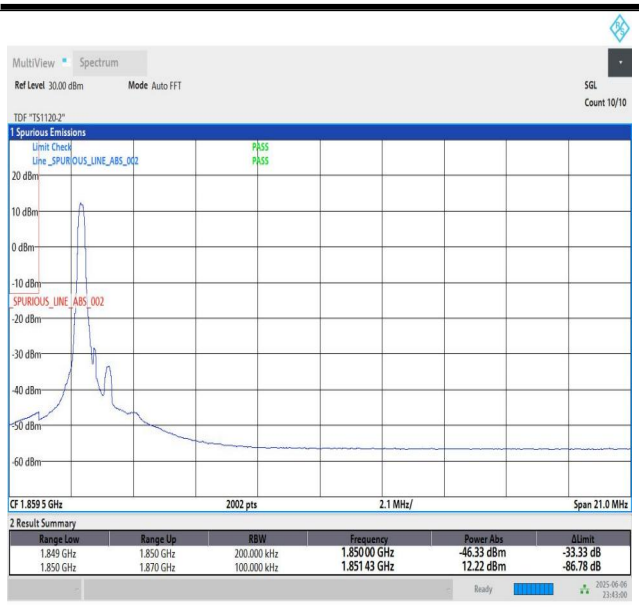


Band2_15MHz_QPSK_18675_6_Low

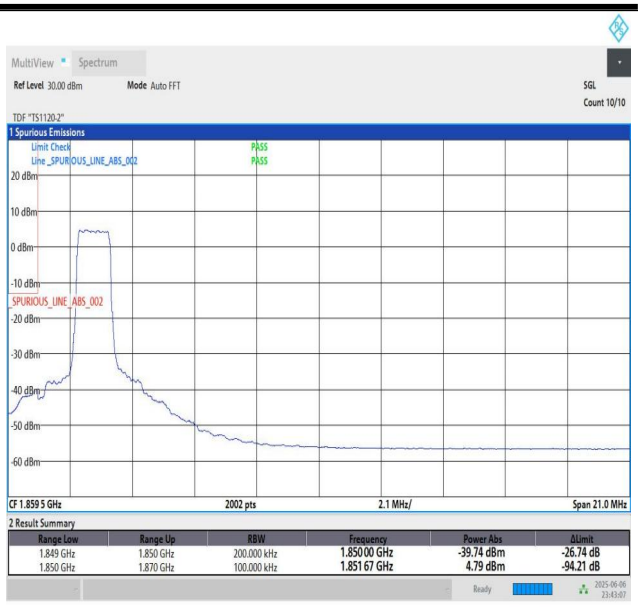


Band2_15MHz_QPSK_19125_1_High

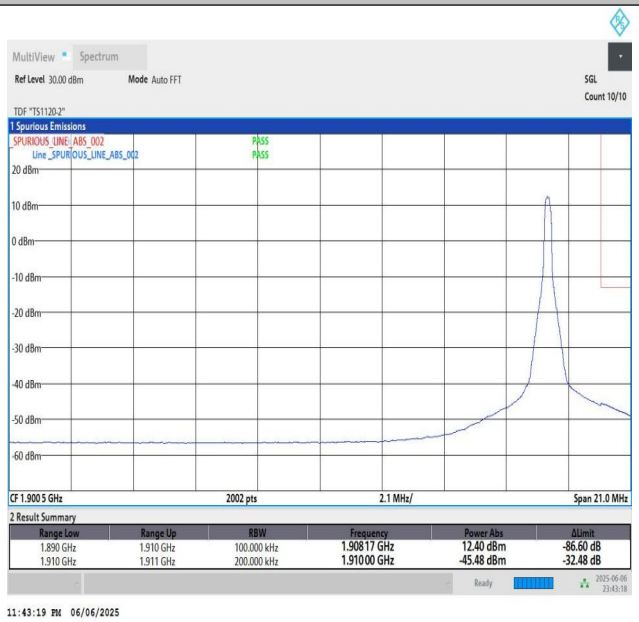
Band2_15MHz_QPSK_19125_6_High



Band2_20MHz_QPSK_18700_1_Low



Band2_20MHz_QPSK_18700_6_Low

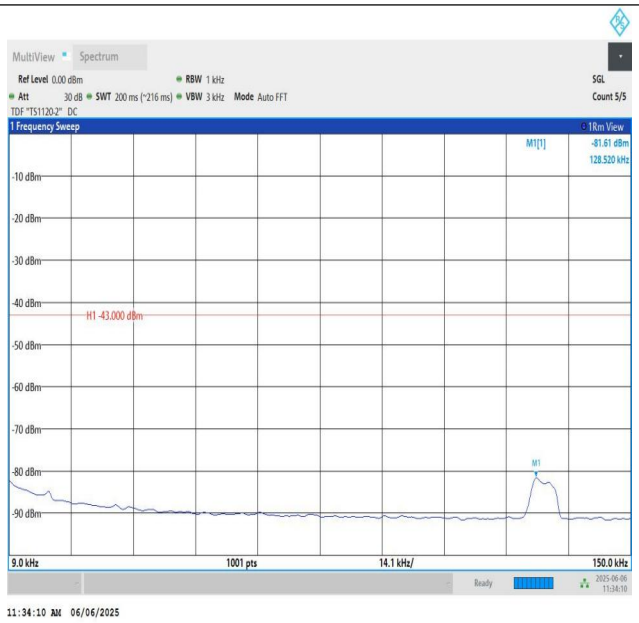


Band2_20MHz_QPSK_19100_1_High

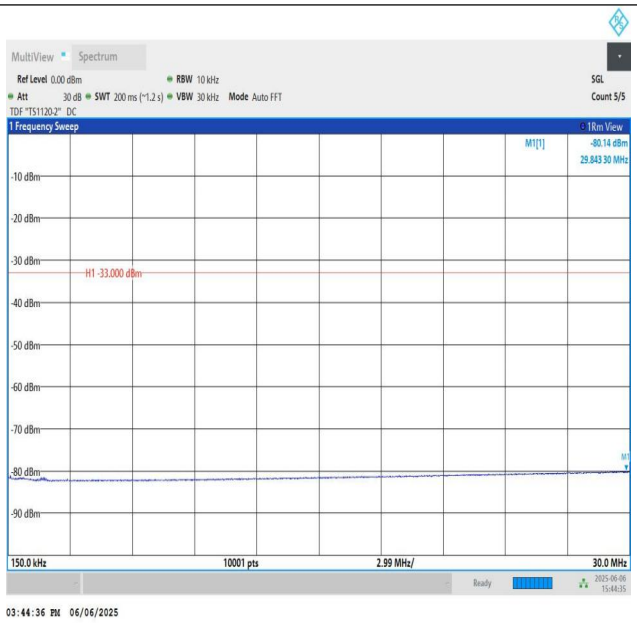
Band2_20MHz_QPSK_19100_6_High

Conducted Spurious Emission for M1

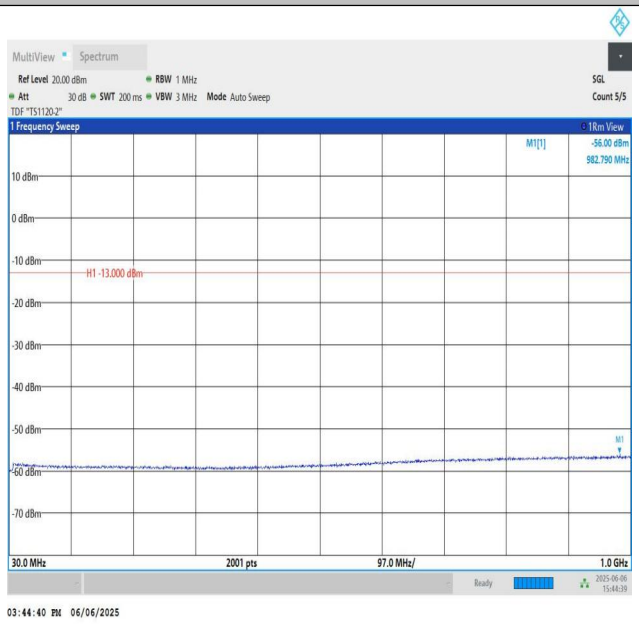
Test Graphs



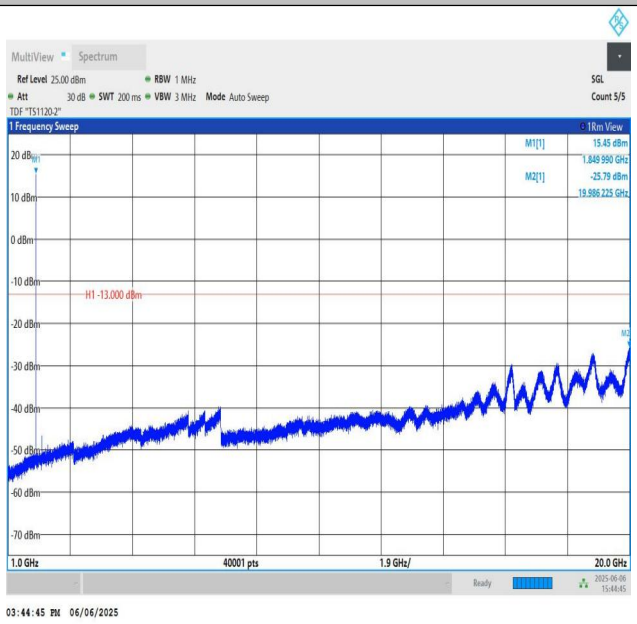
Band2-1.4MHz-QPSK-18607-PASS



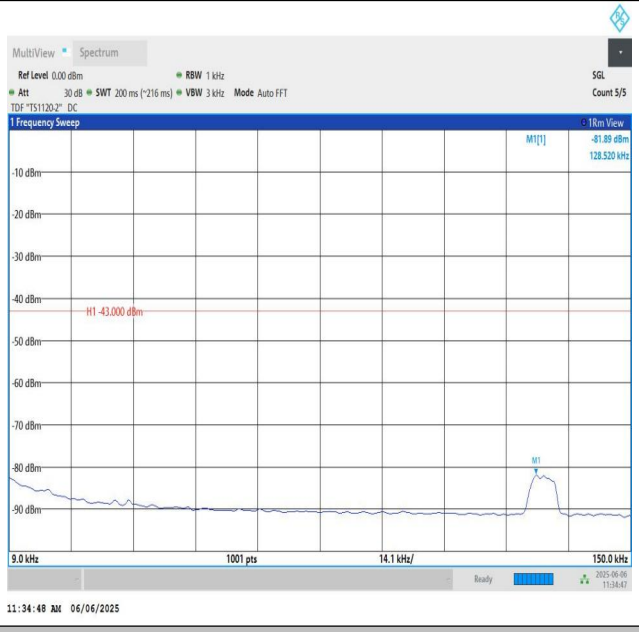
Band2-1.4MHz-QPSK-18607-PASS



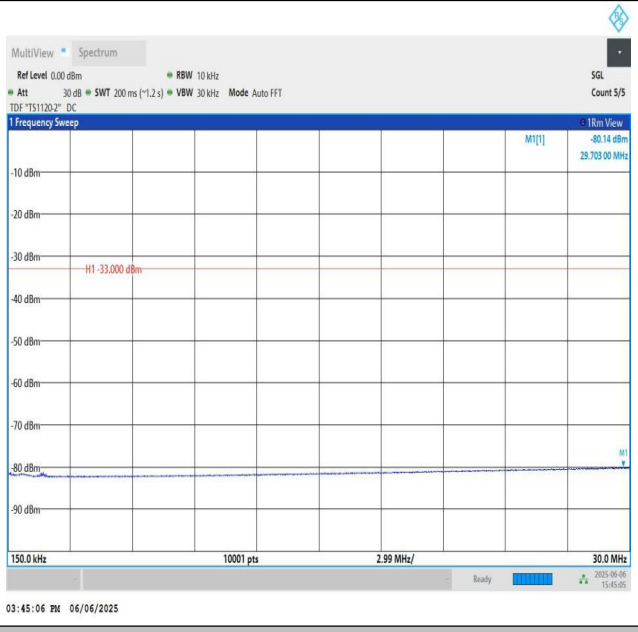
Band2-1.4MHz-QPSK-18607-PASS



Band2-1.4MHz-QPSK-18607-PASS



Band2-1.4MHz-QPSK-18900-PASS



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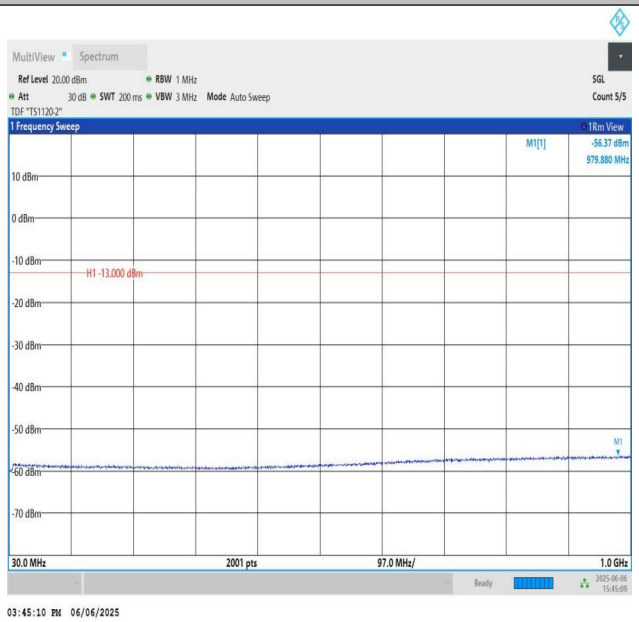
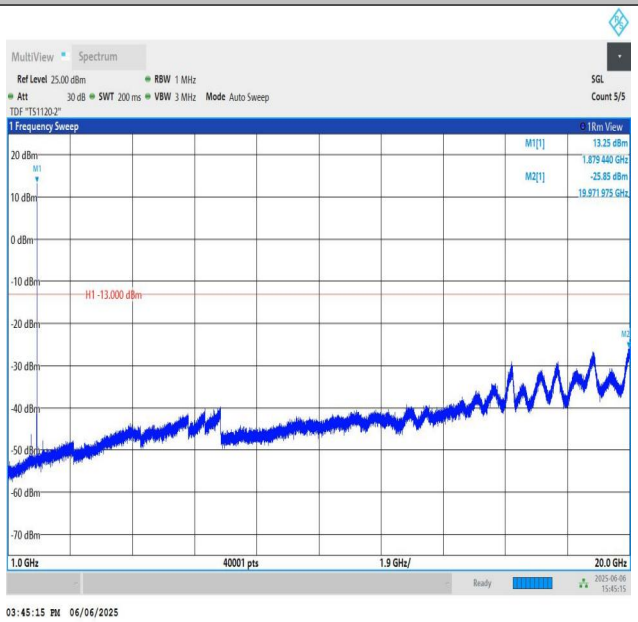
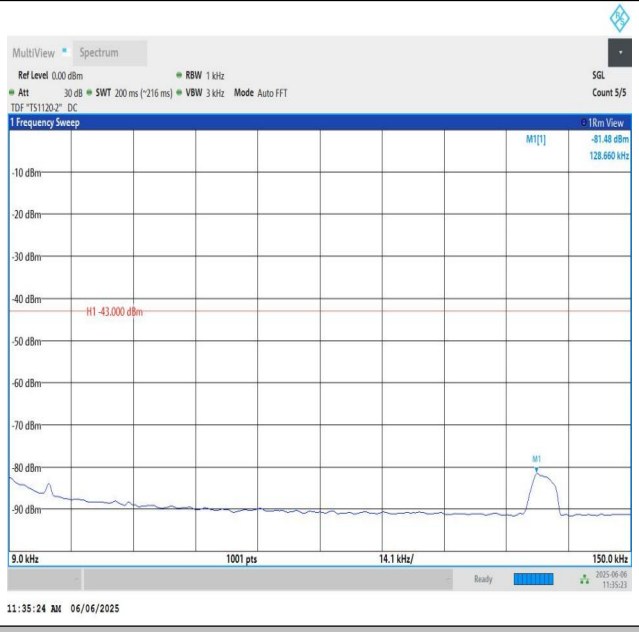


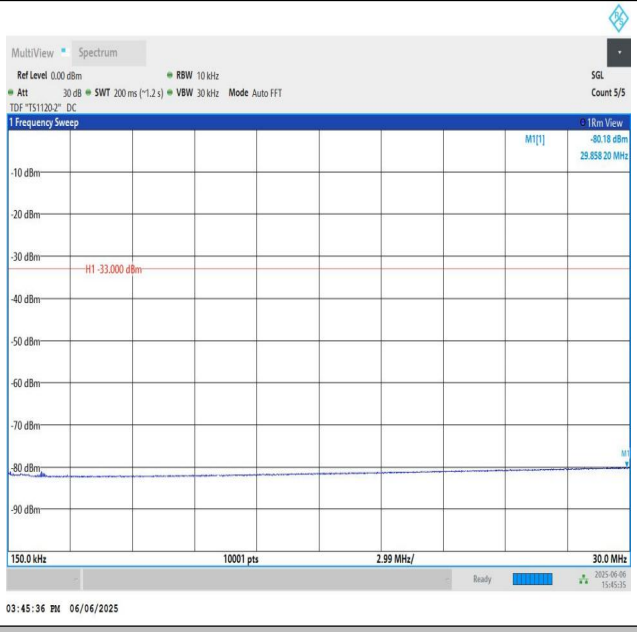
Band2-1.4MHz-QPSK-18900-PASS



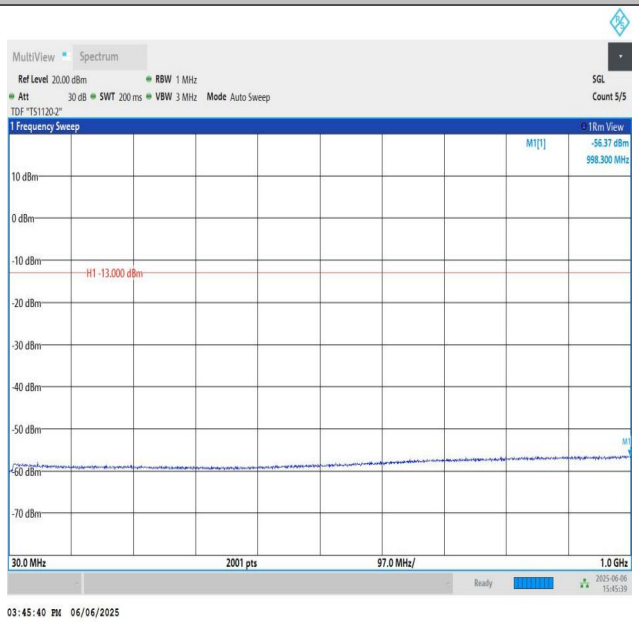
Band2-1.4MHz-QPSK-18900-PASS



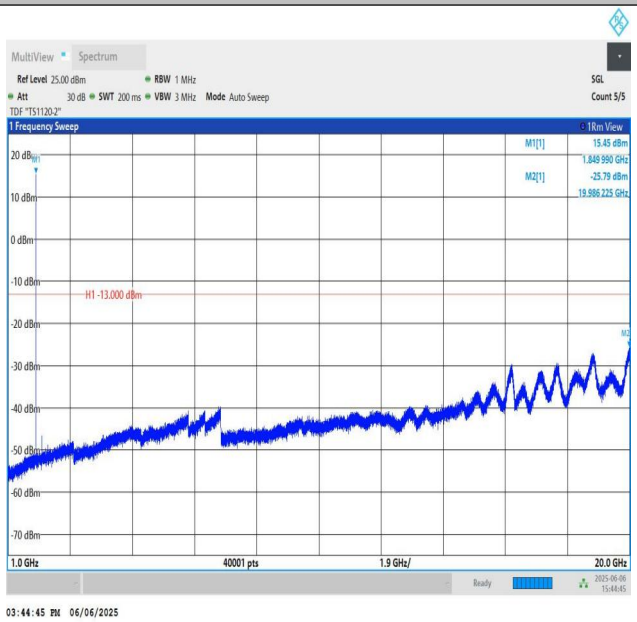
Band2-1.4MHz-QPSK-19193-PASS



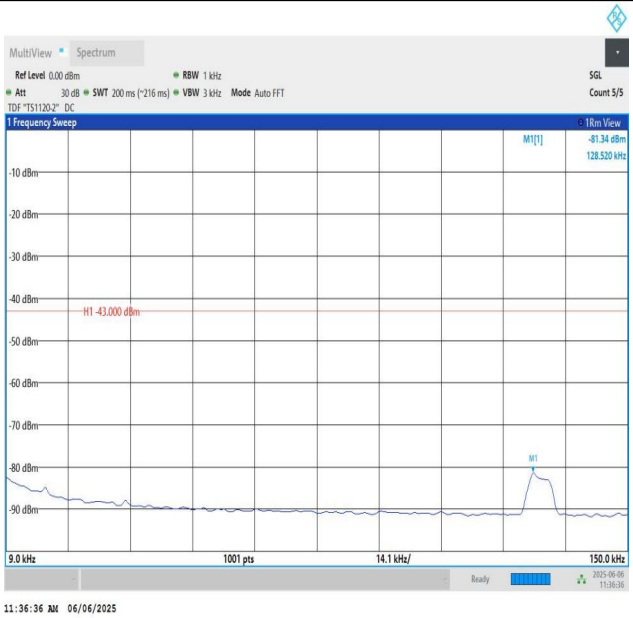
Band2-1.4MHz-QPSK-19193-PASS



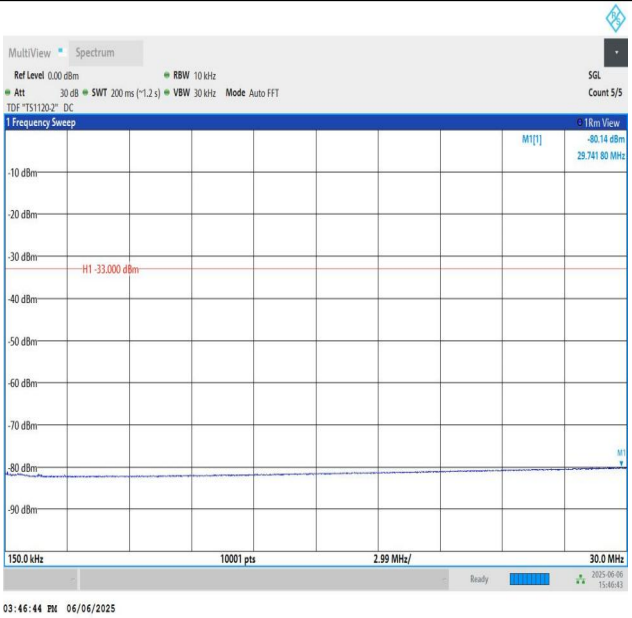
Band2-1.4MHz-QPSK-19193-PASS



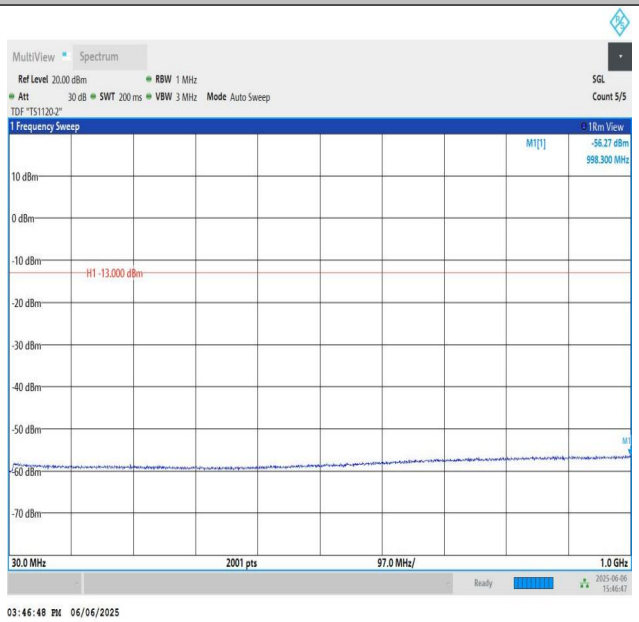
Band2-1.4MHz-QPSK-19193-PASS



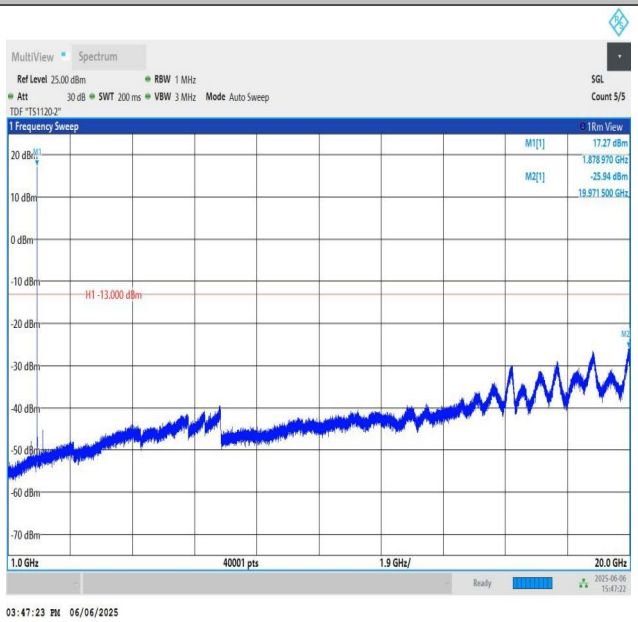
Band2-3MHz-QPSK-18615-PASS



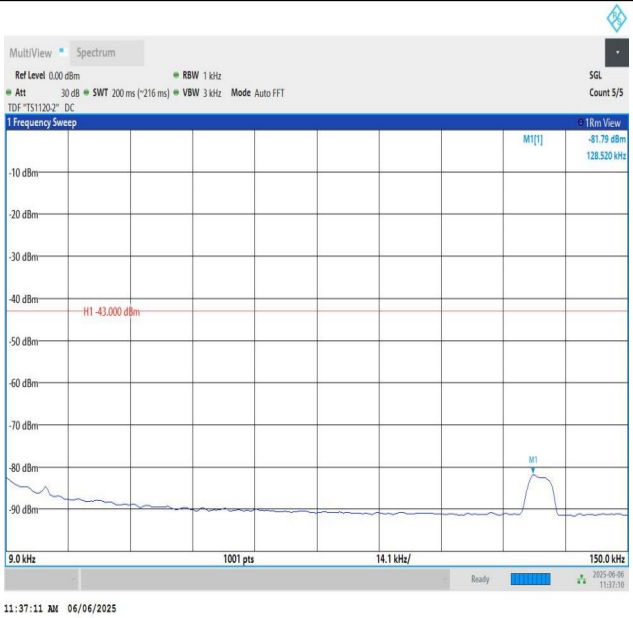
Band2-3MHz-QPSK-18615-PASS



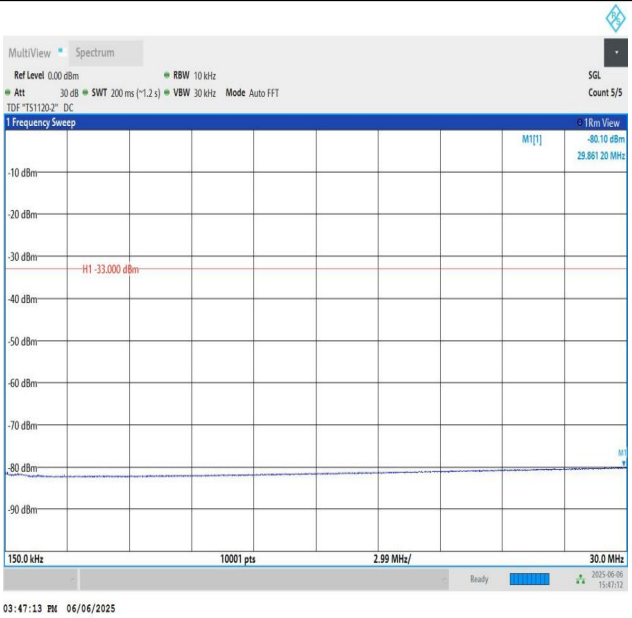
Band2-3MHz-QPSK-18615-PASS



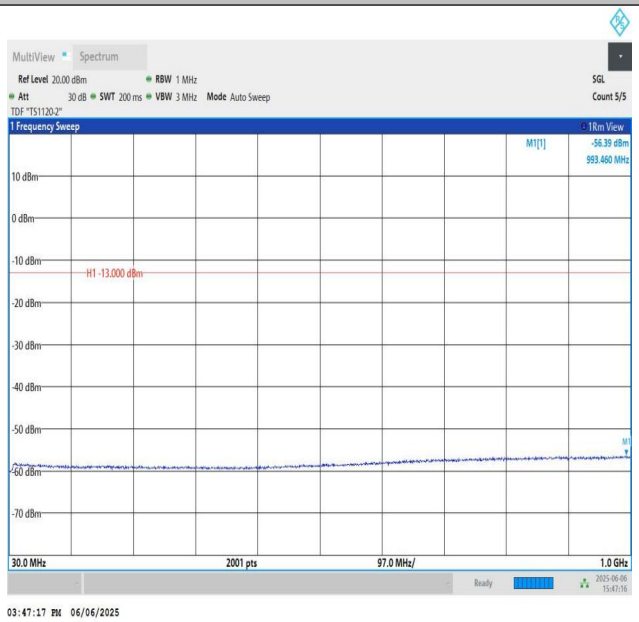
Band2-3MHz-QPSK-18615-PASS



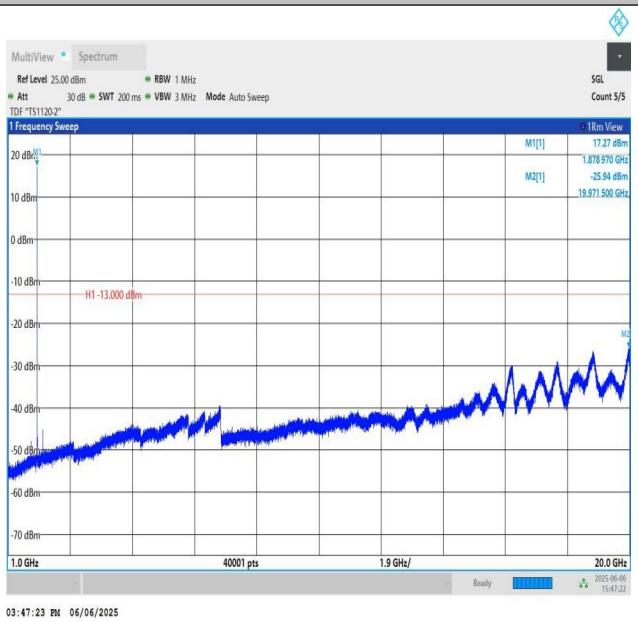
Band2-3MHz-QPSK-18900-PASS



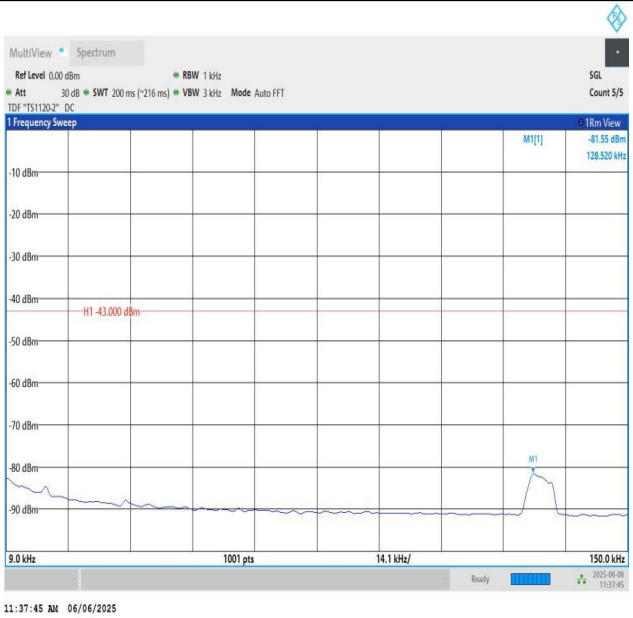
Band2-3MHz-QPSK-18900-PASS



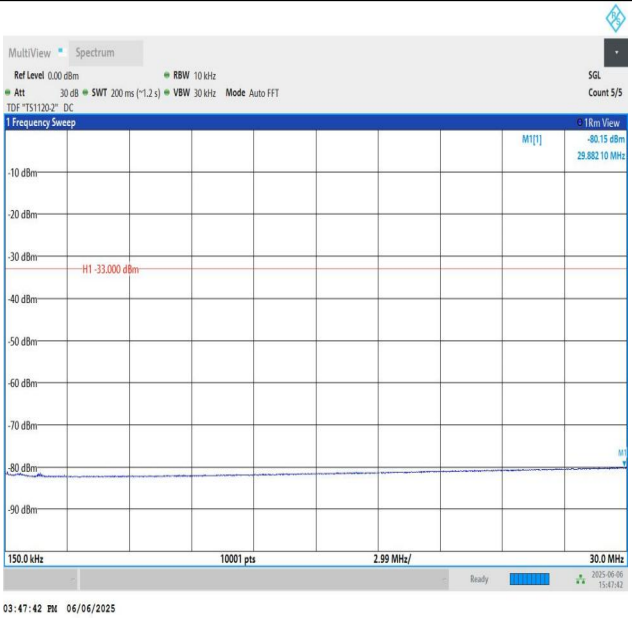
Band2-3MHz-QPSK-18900-PASS



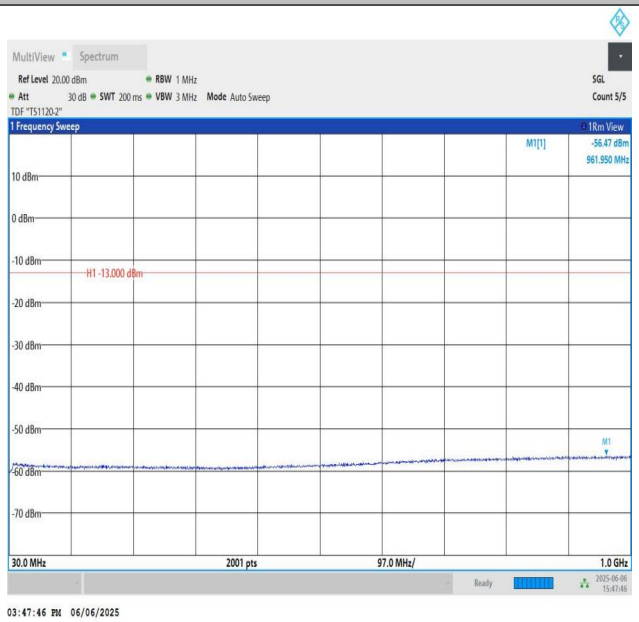
Band2-3MHz-QPSK-18900-PASS



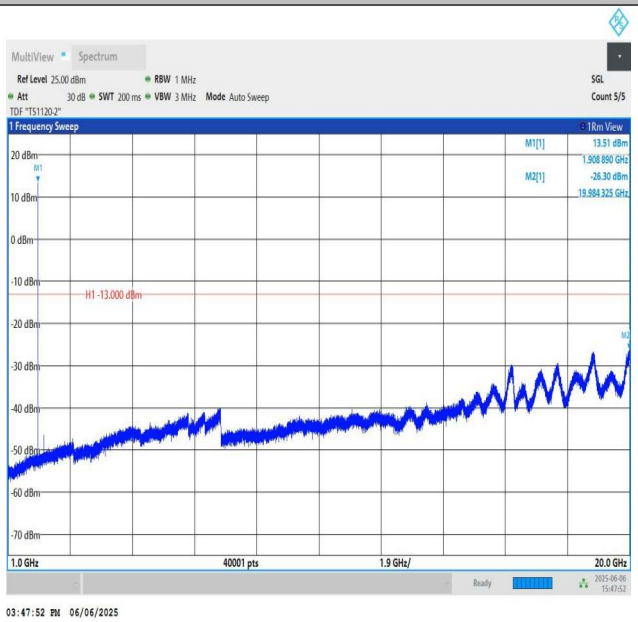
Band2-3MHz-QPSK-19185-PASS



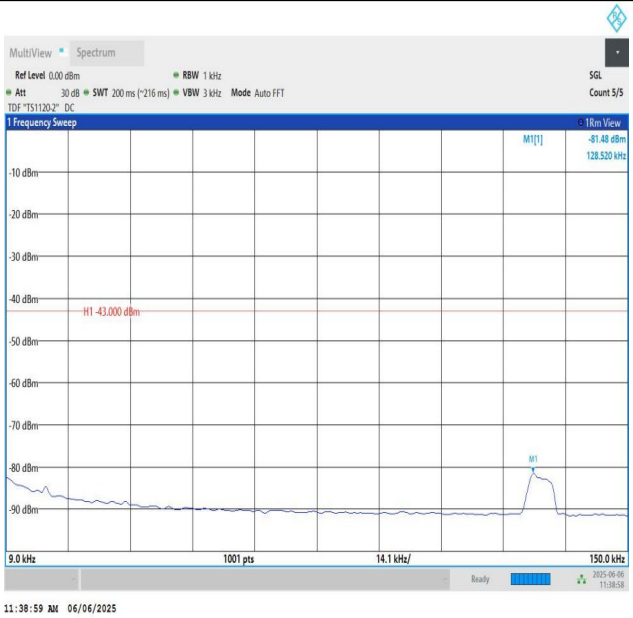
Band2-3MHz-QPSK-19185-PASS



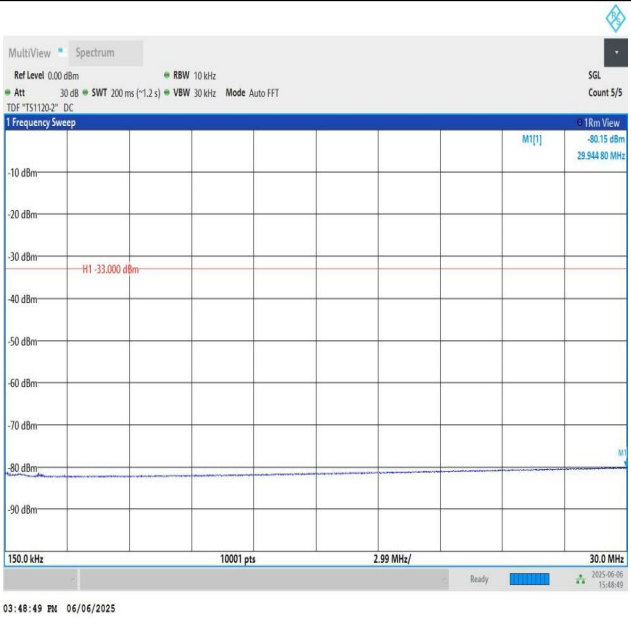
Band2-3MHz-QPSK-19185-PASS



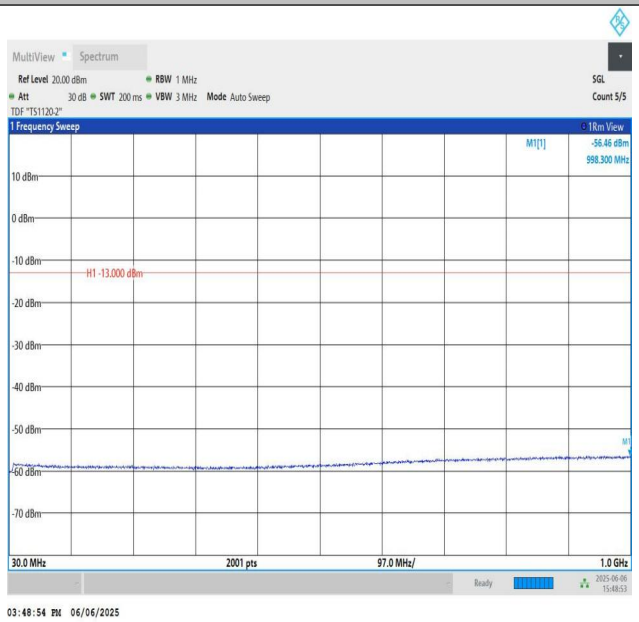
Band2-3MHz-QPSK-19185-PASS



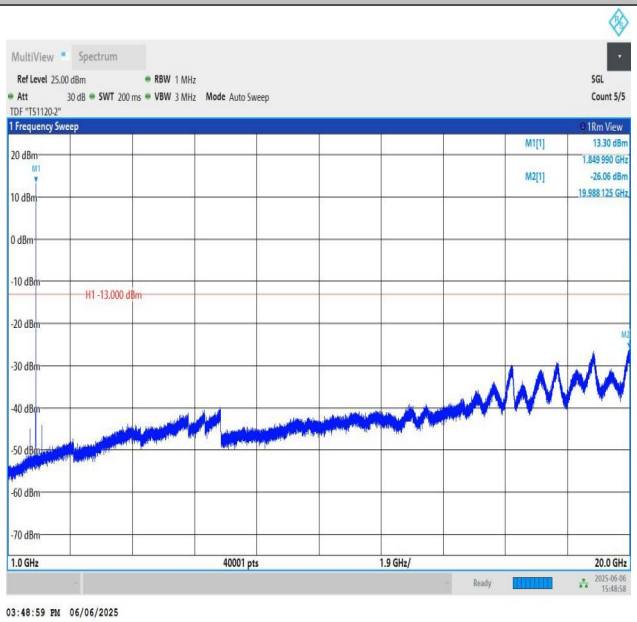
Band2-5MHz-QPSK-18625-PASS



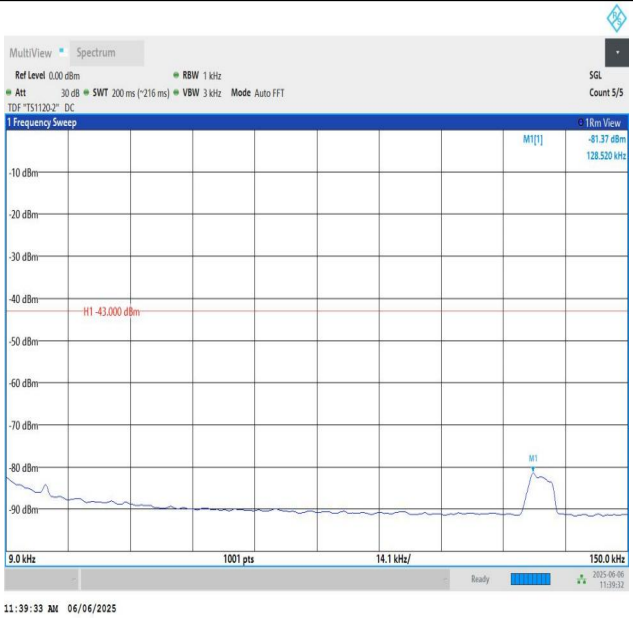
Band2-5MHz-QPSK-18625-PASS



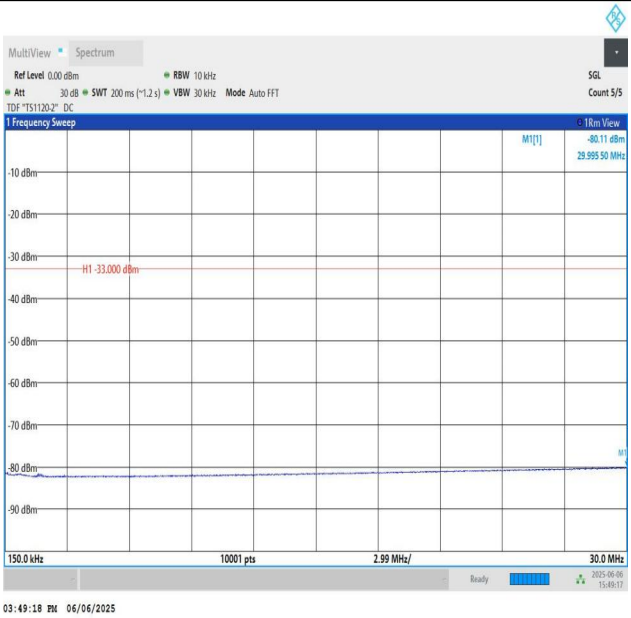
Band2-5MHz-QPSK-18625-PASS



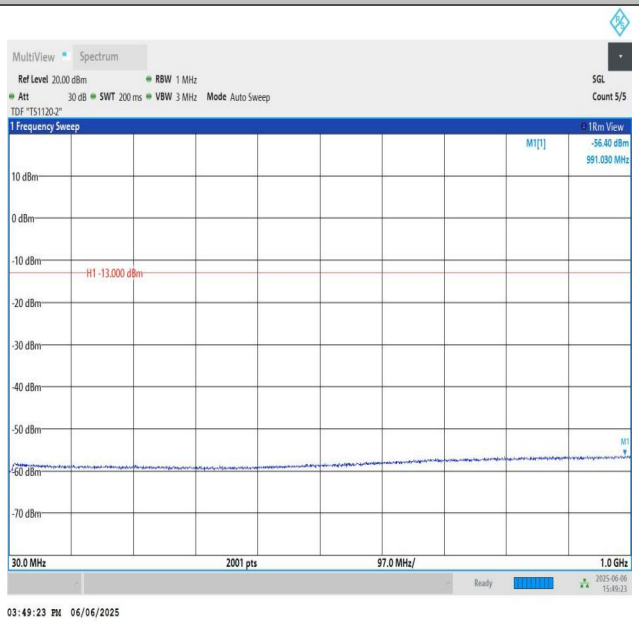
Band2-5MHz-QPSK-18625-PASS



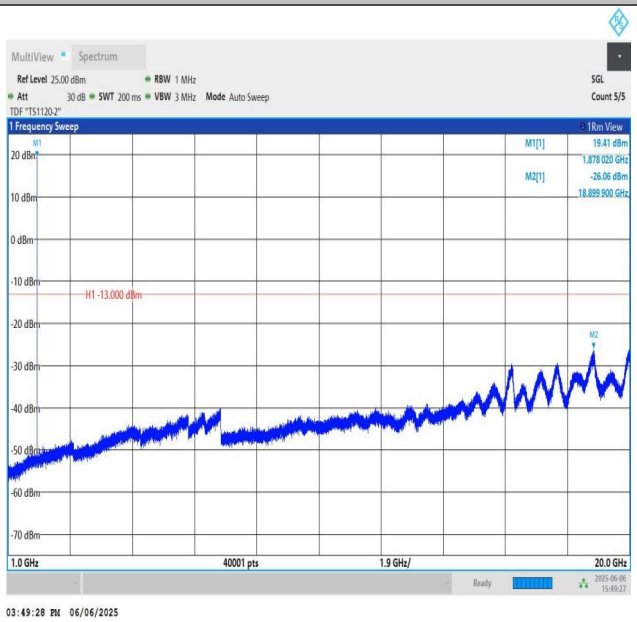
Band2-5MHz-QPSK-18900-PASS



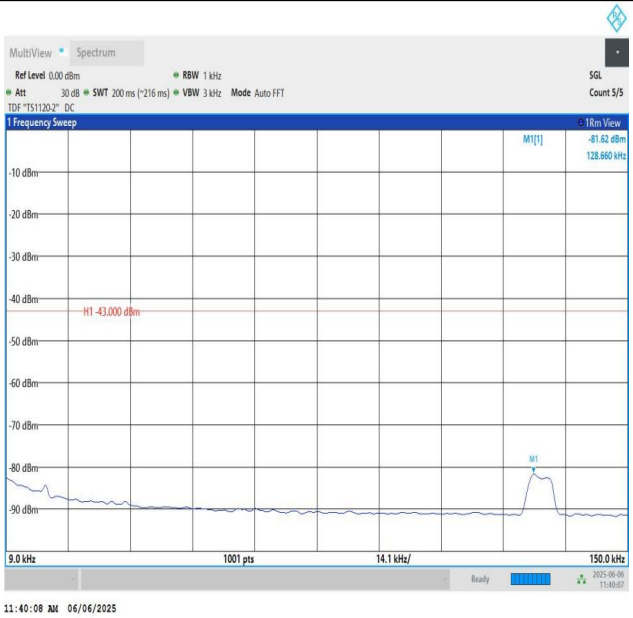
Band2-5MHz-QPSK-18900-PASS



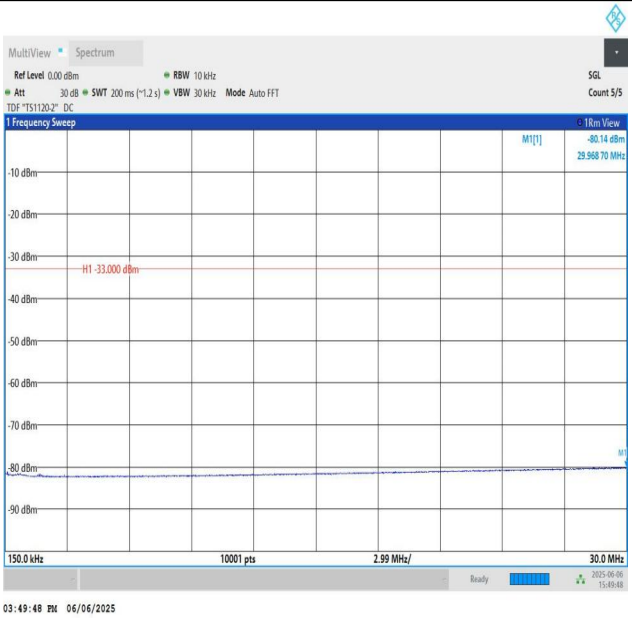
Band2-5MHz-QPSK-18900-PASS



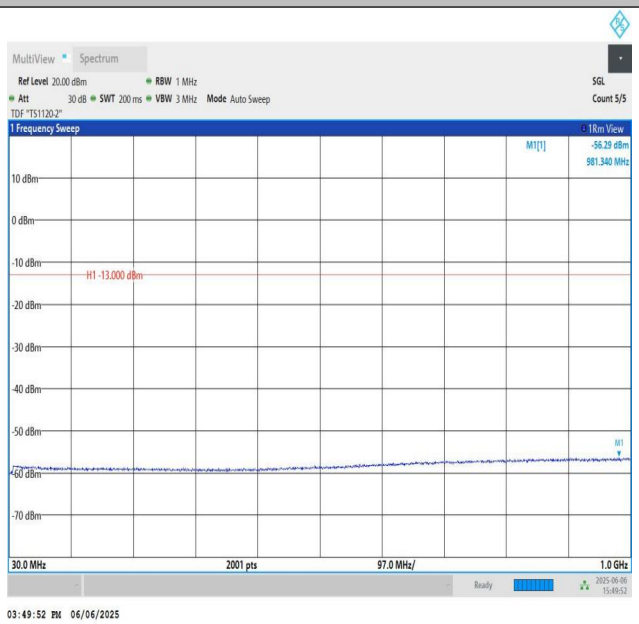
Band2-5MHz-QPSK-18900-PASS



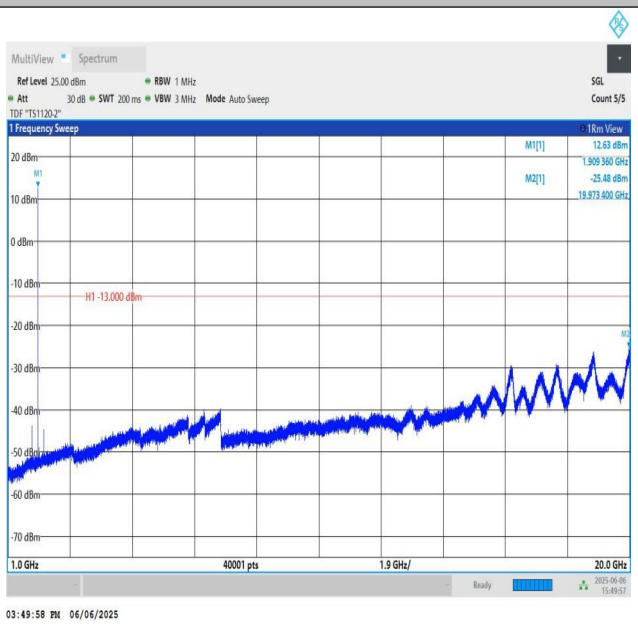
Band2-5MHz-QPSK-19175-PASS



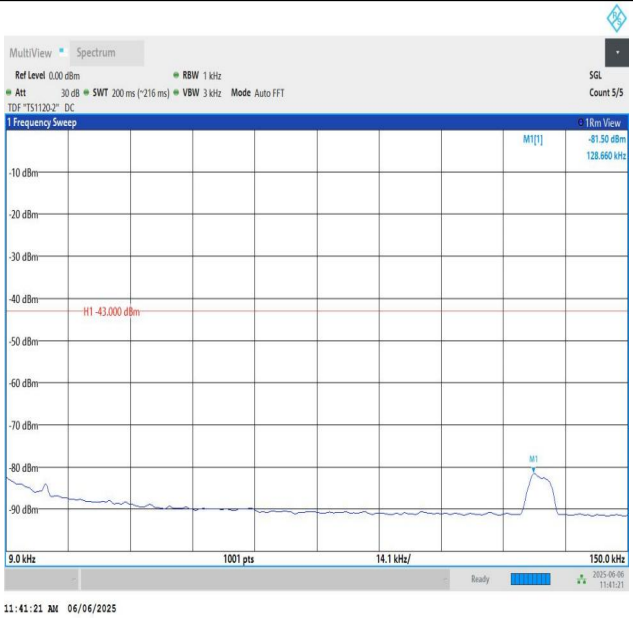
Band2-5MHz-QPSK-19175-PASS



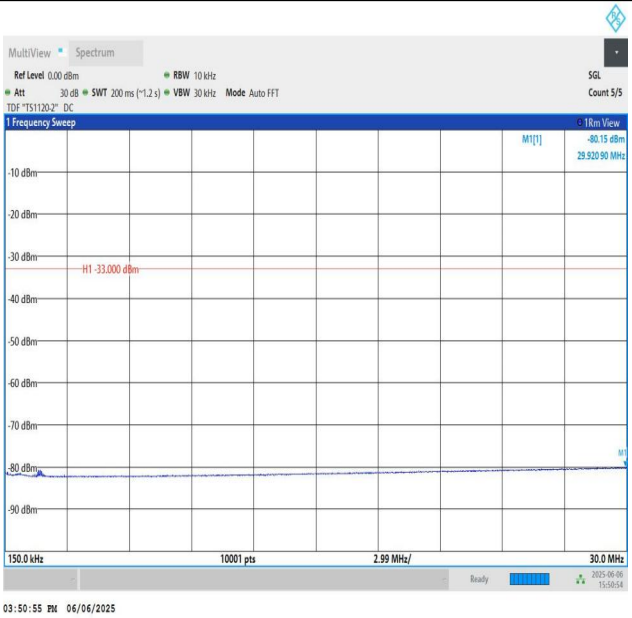
Band2-5MHz-QPSK-19175-PASS



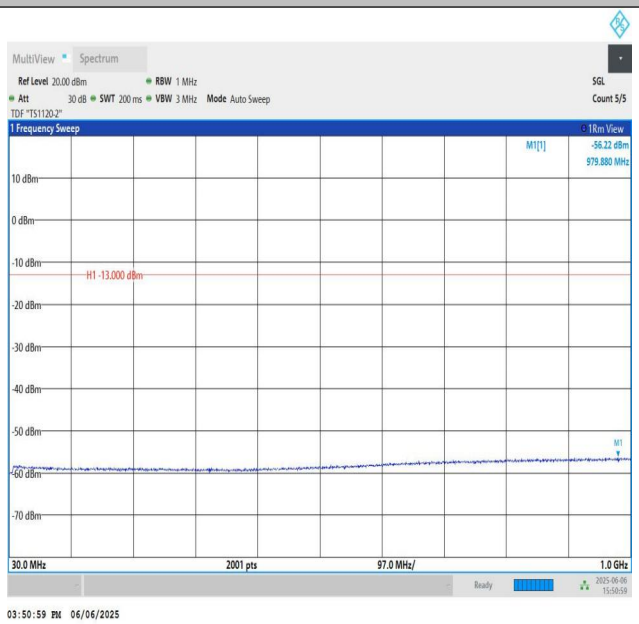
Band2-5MHz-QPSK-19175-PASS



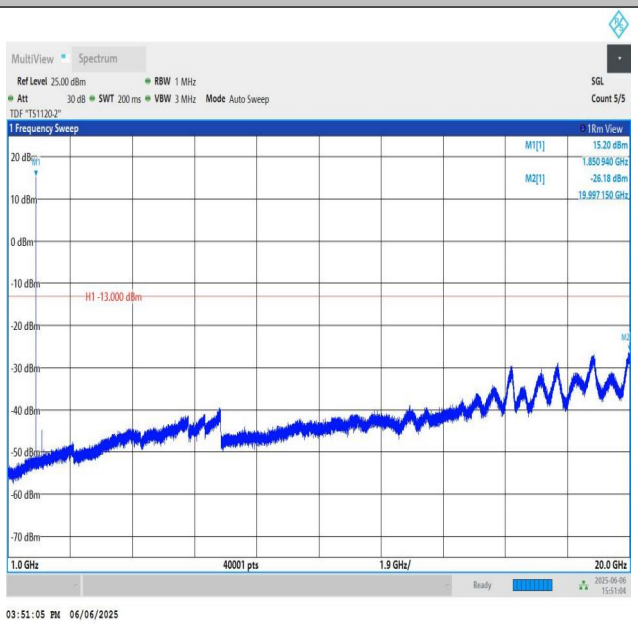
Band2-10MHz-QPSK-18650-PASS



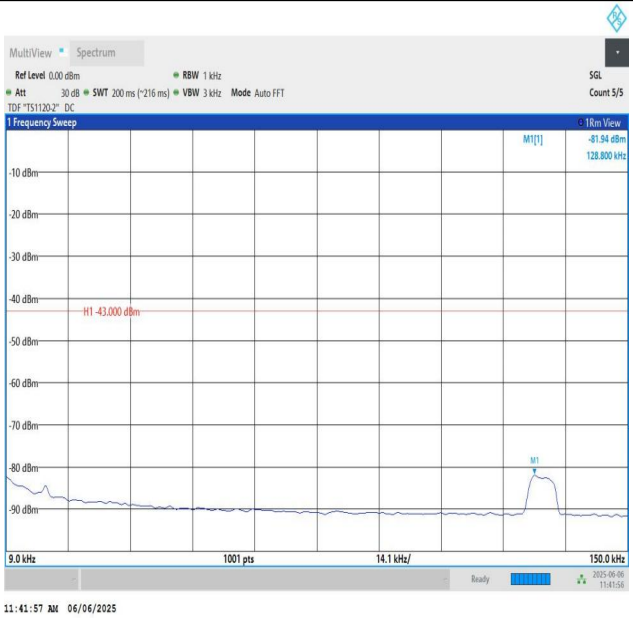
Band2-10MHz-QPSK-18650-PASS



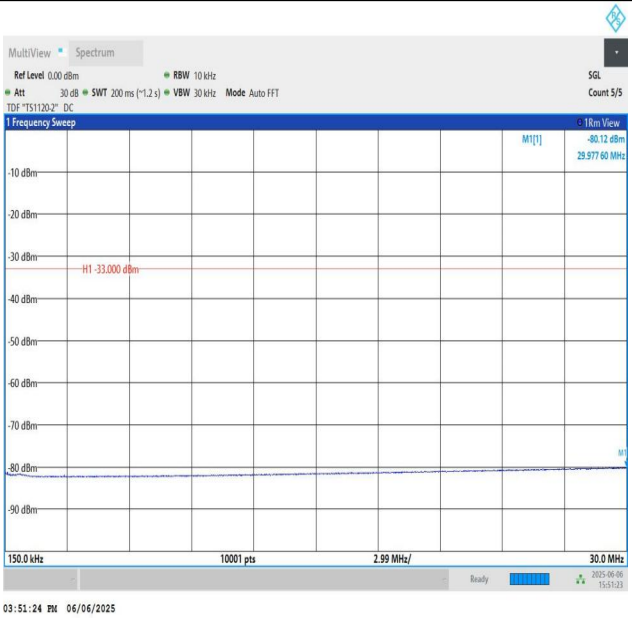
Band2-10MHz-QPSK-18650-PASS



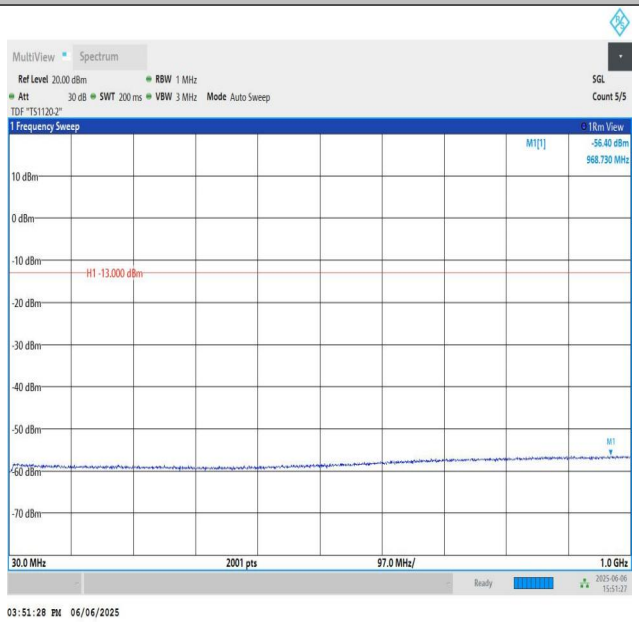
Band2-10MHz-QPSK-18650-PASS



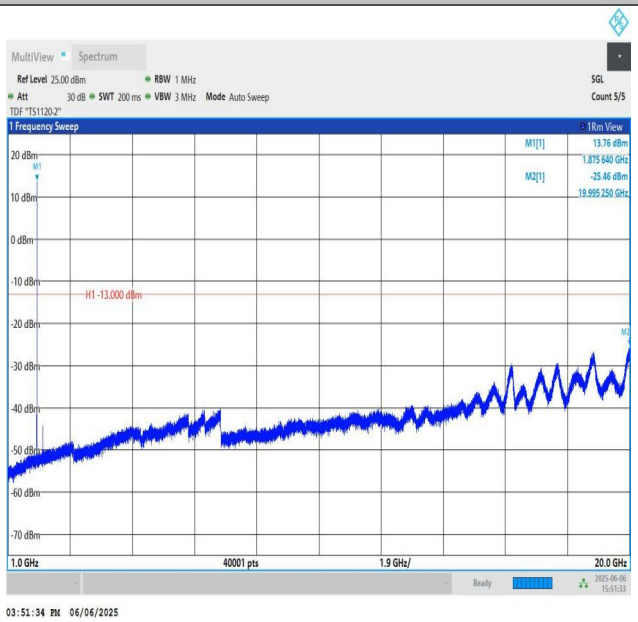
Band2-10MHz-QPSK-18900-PASS



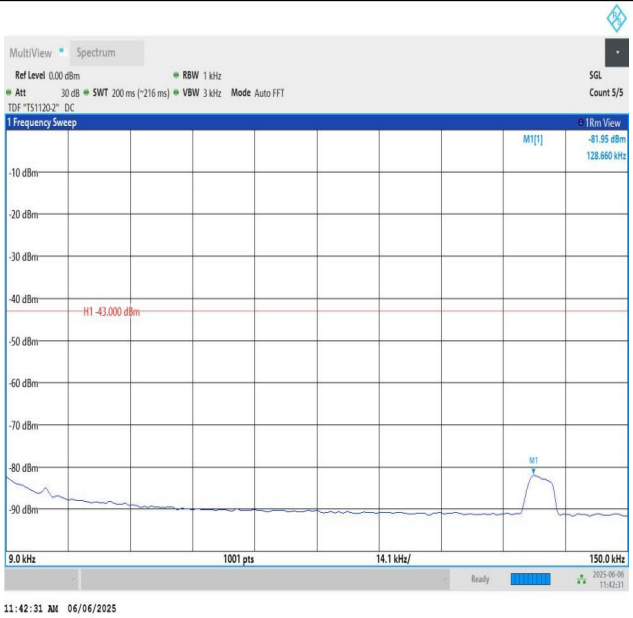
Band2-10MHz-QPSK-18900-PASS



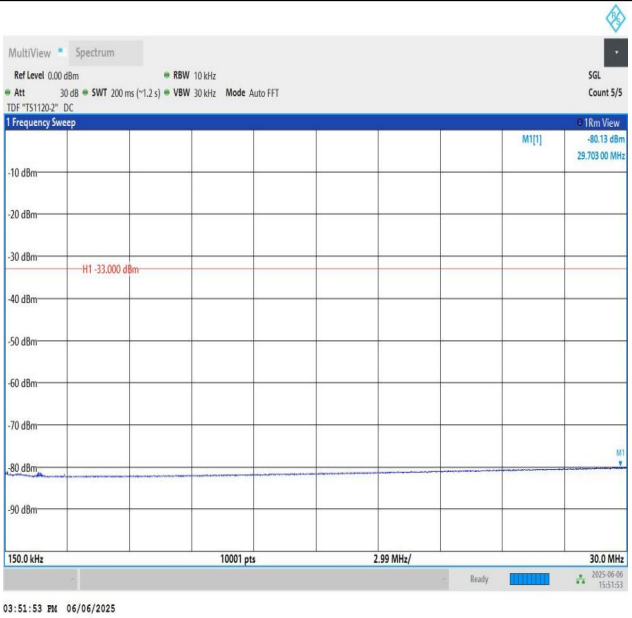
Band2-10MHz-QPSK-18900-PASS



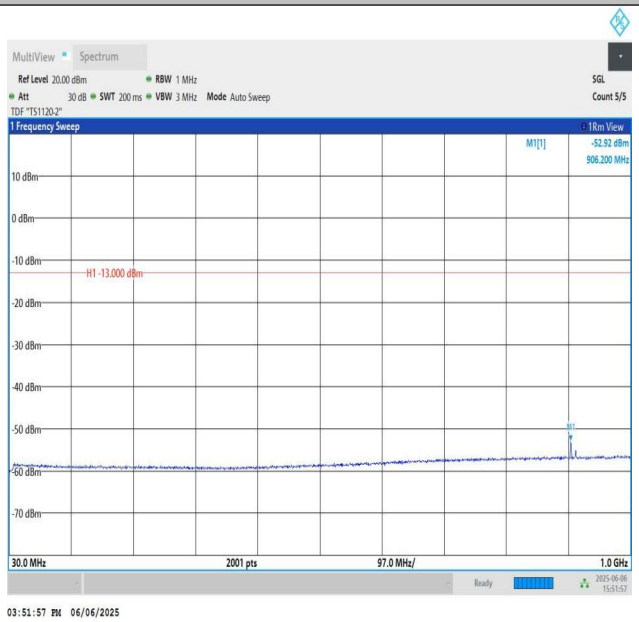
Band2-10MHz-QPSK-18900-PASS



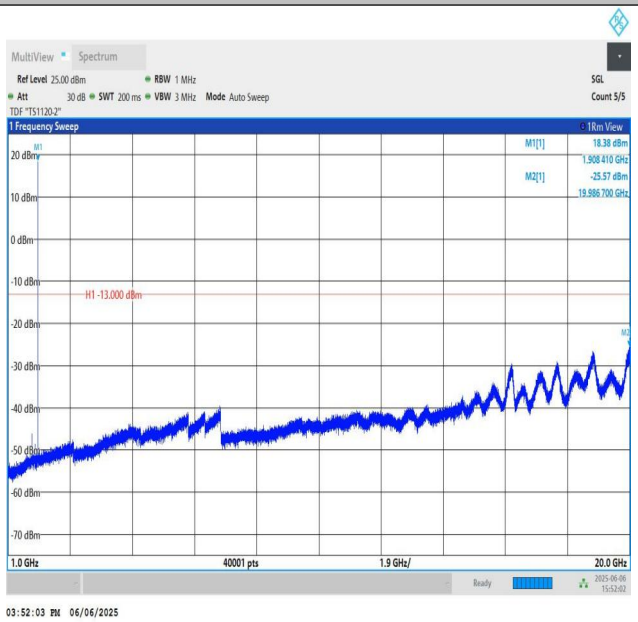
Band2-10MHz-QPSK-19150-PASS



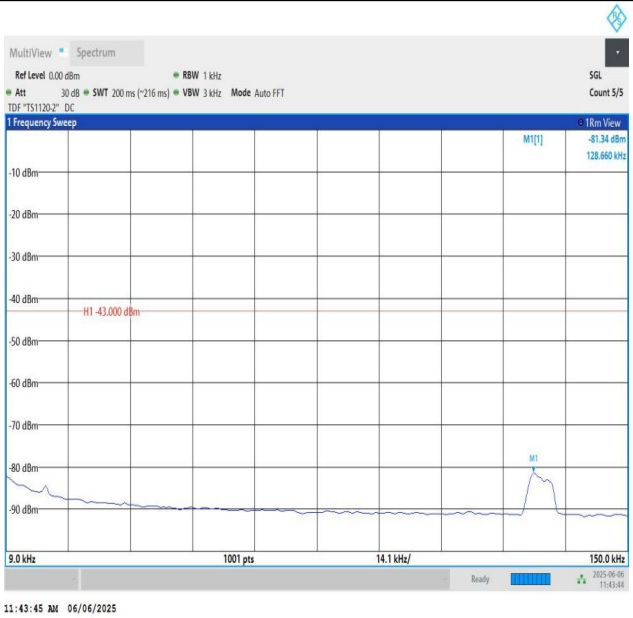
Band2-10MHz-QPSK-19150-PASS



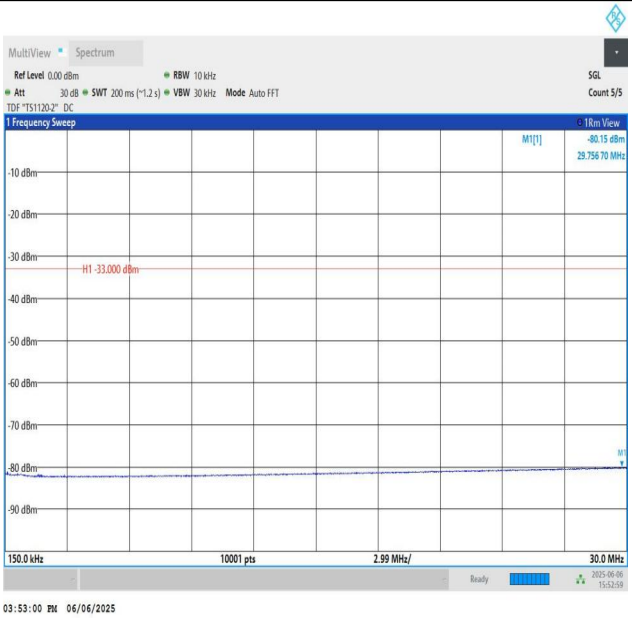
Band2-10MHz-QPSK-19150-PASS



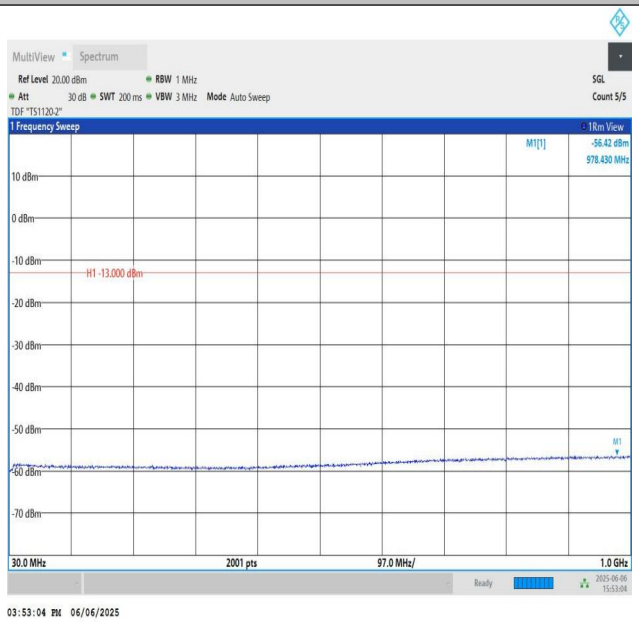
Band2-10MHz-QPSK-19150-PASS



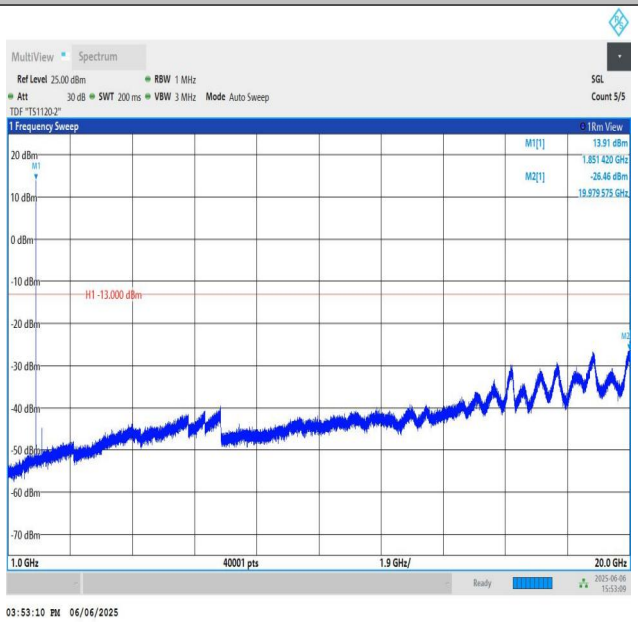
Band2-15MHz-QPSK-18675-PASS



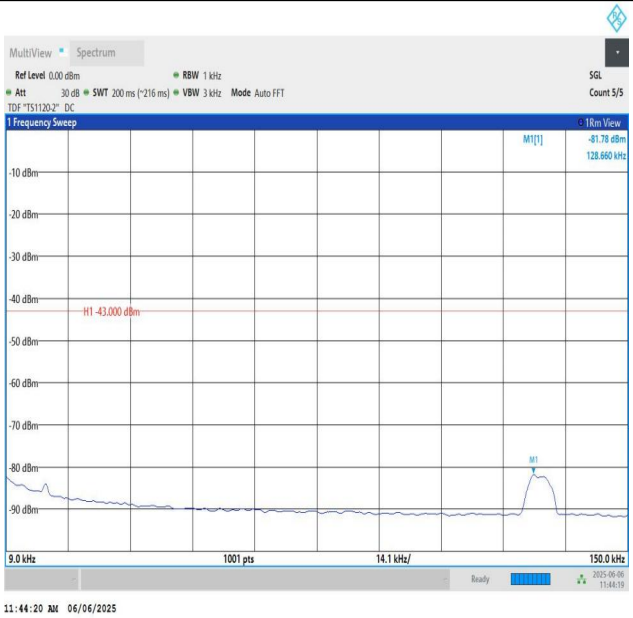
Band2-15MHz-QPSK-18675-PASS



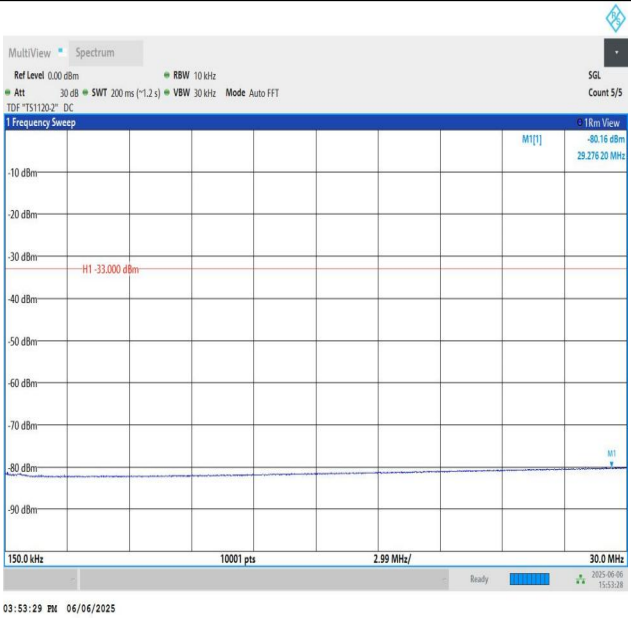
Band2-15MHz-QPSK-18675-PASS



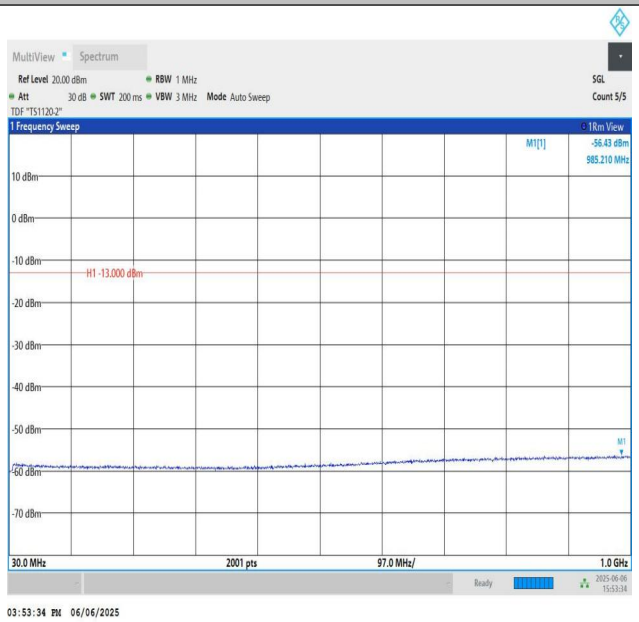
Band2-15MHz-QPSK-18675-PASS



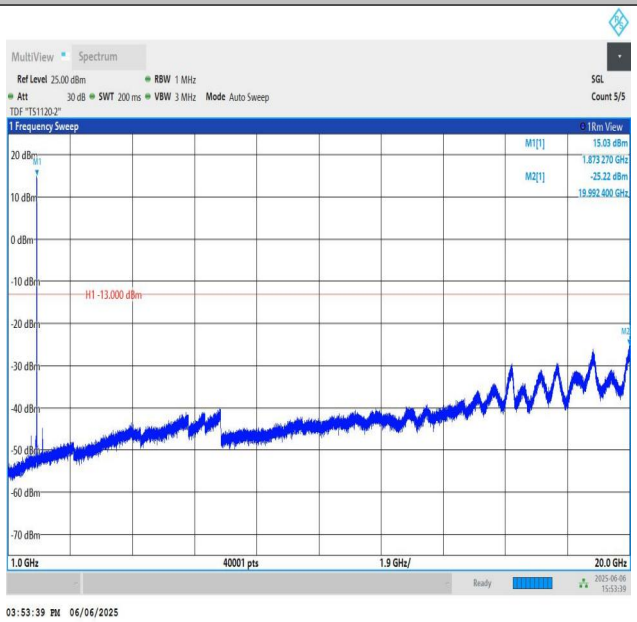
Band2-15MHz-QPSK-18900-PASS



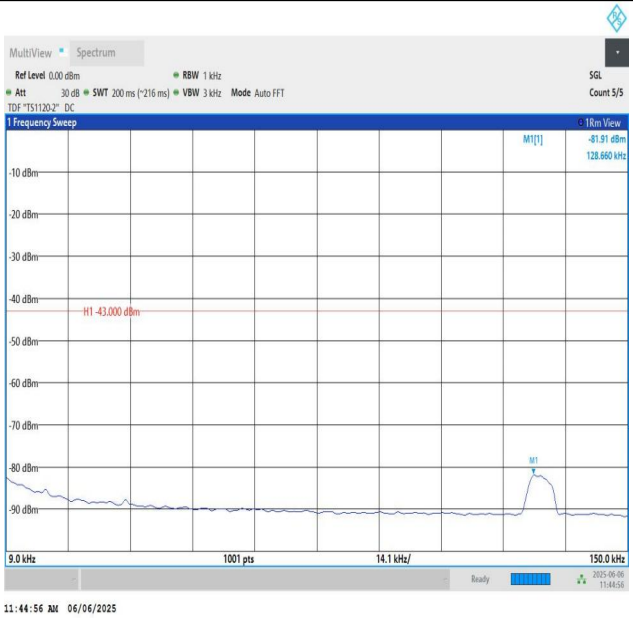
Band2-15MHz-QPSK-18900-PASS



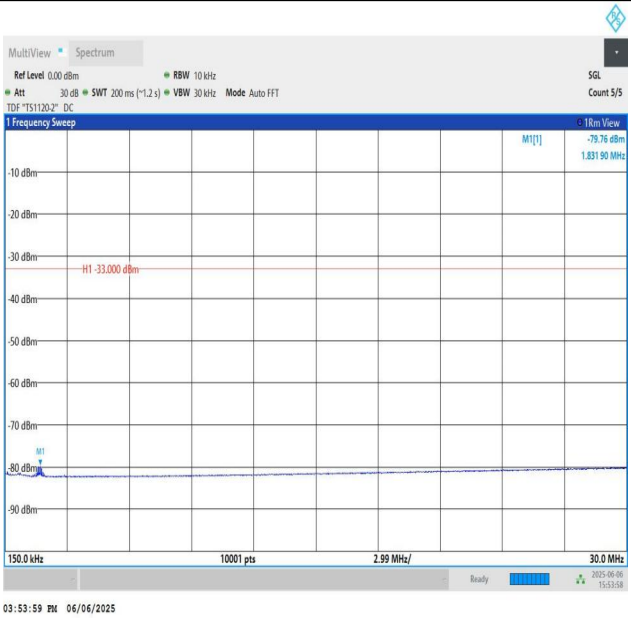
Band2-15MHz-QPSK-18900-PASS



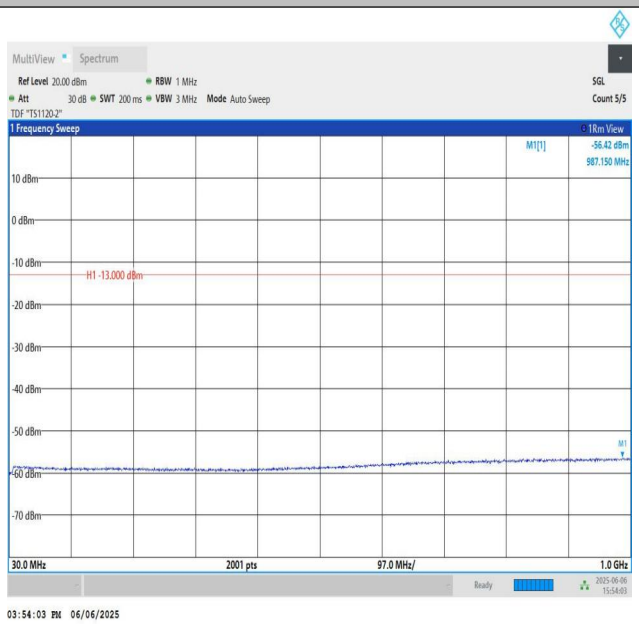
Band2-15MHz-QPSK-18900-PASS



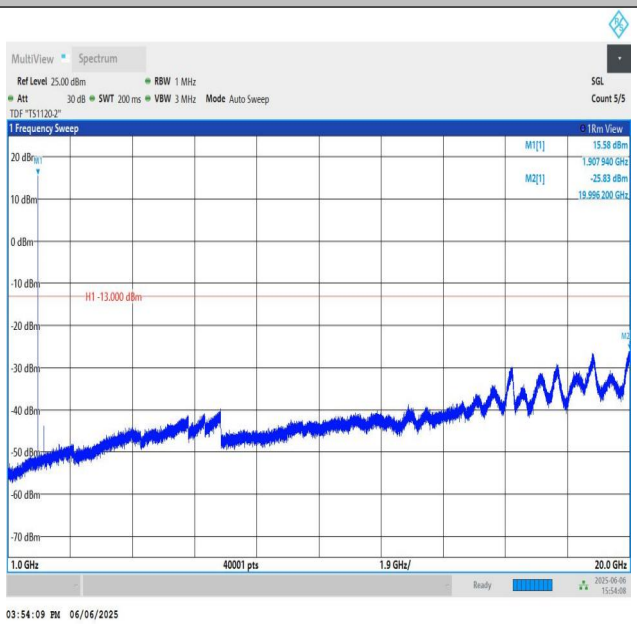
Band2-15MHz-QPSK-19125-PASS



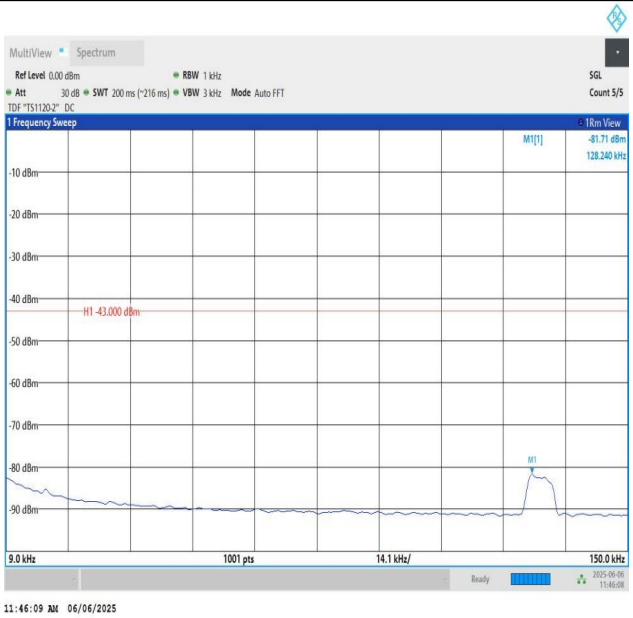
Band2-15MHz-QPSK-19125-PASS



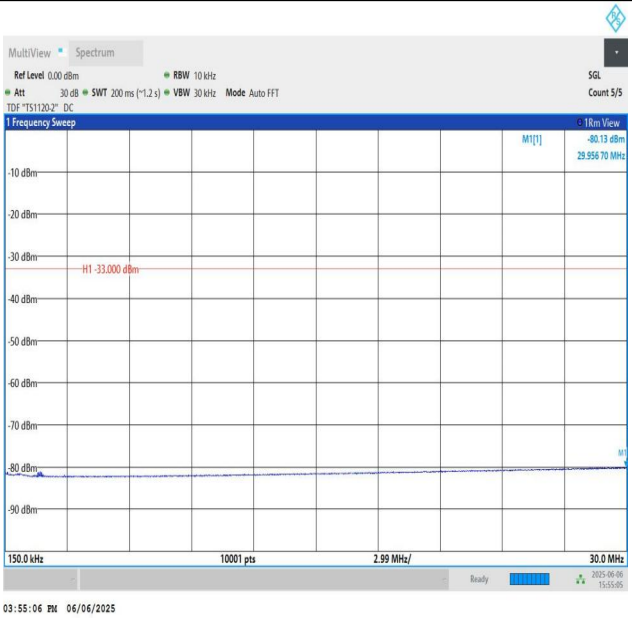
Band2-15MHz-QPSK-19125-PASS



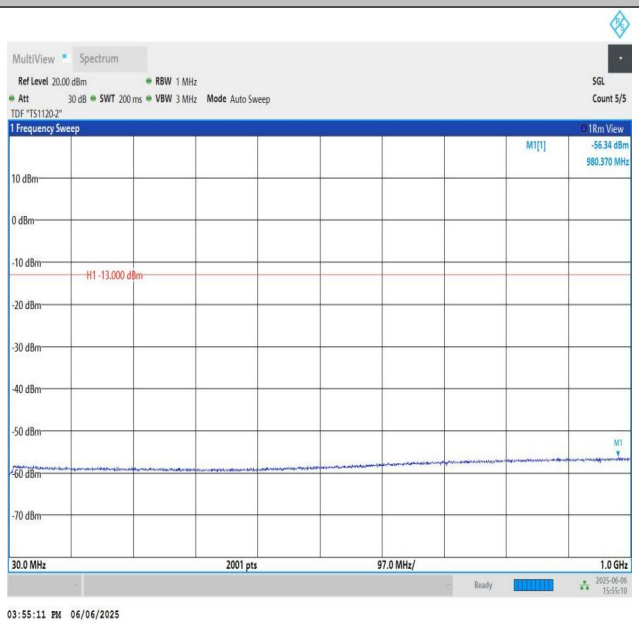
Band2-15MHz-QPSK-19125-PASS



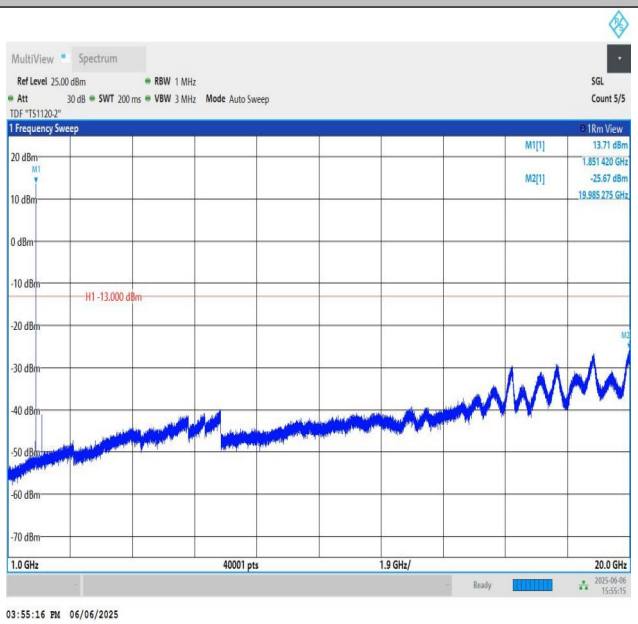
Band2-20MHz-QPSK-18700-PASS



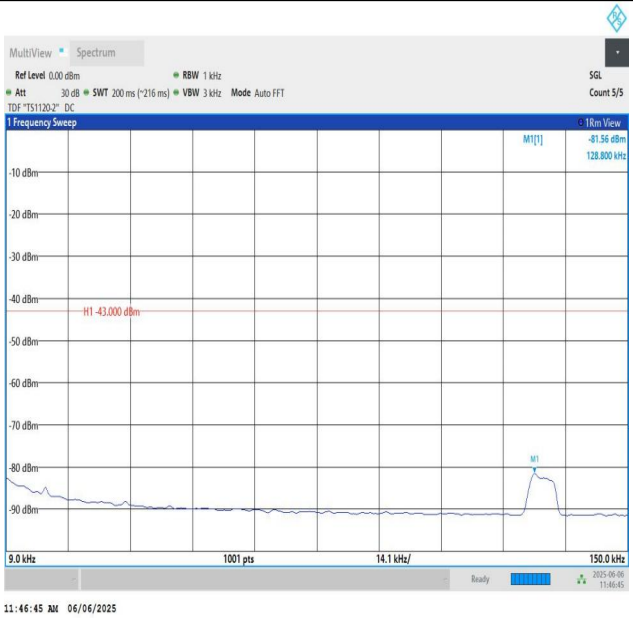
Band2-20MHz-QPSK-18700-PASS



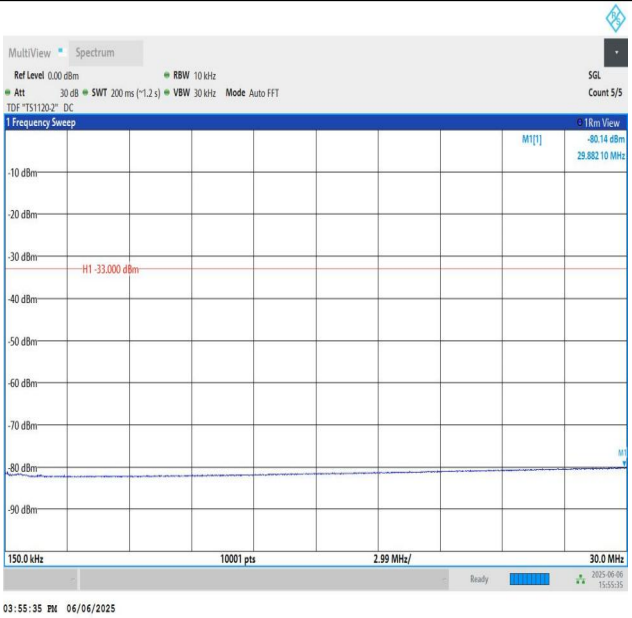
Band2-20MHz-QPSK-18700-PASS



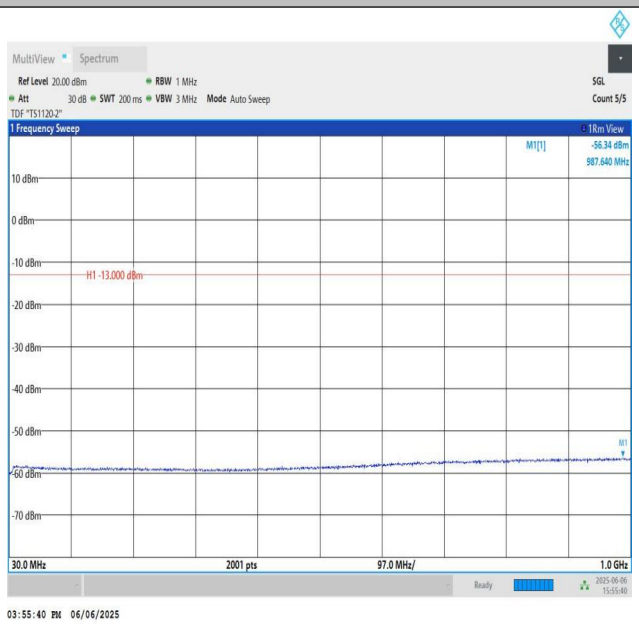
Band2-20MHz-QPSK-18700-PASS



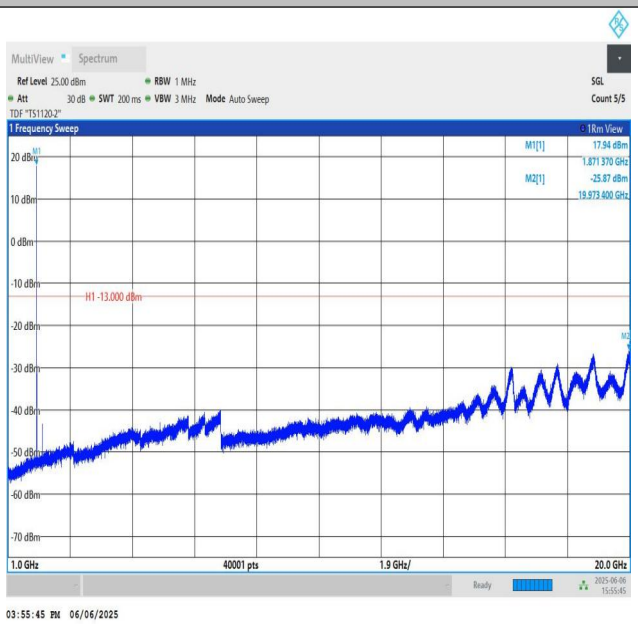
Band2-20MHz-QPSK-18900-PASS



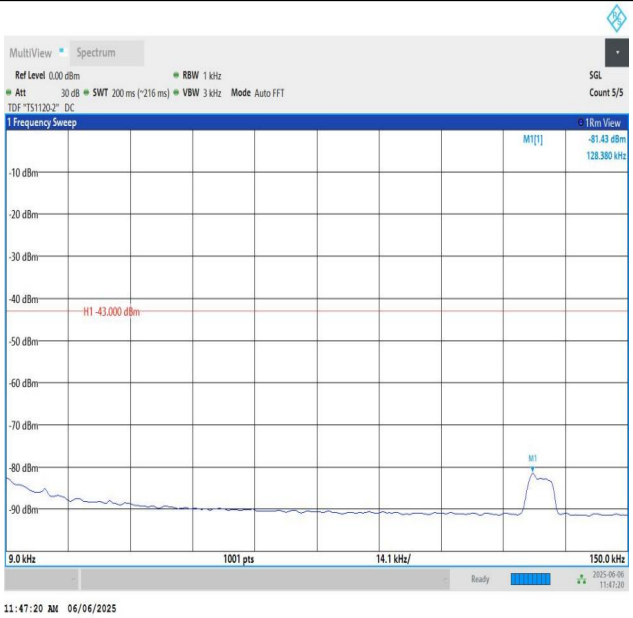
Band2-20MHz-QPSK-18900-PASS



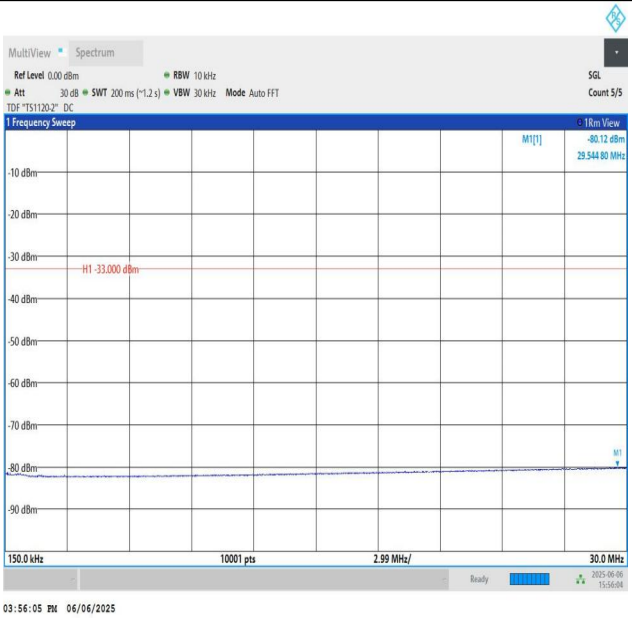
Band2-20MHz-QPSK-18900-PASS



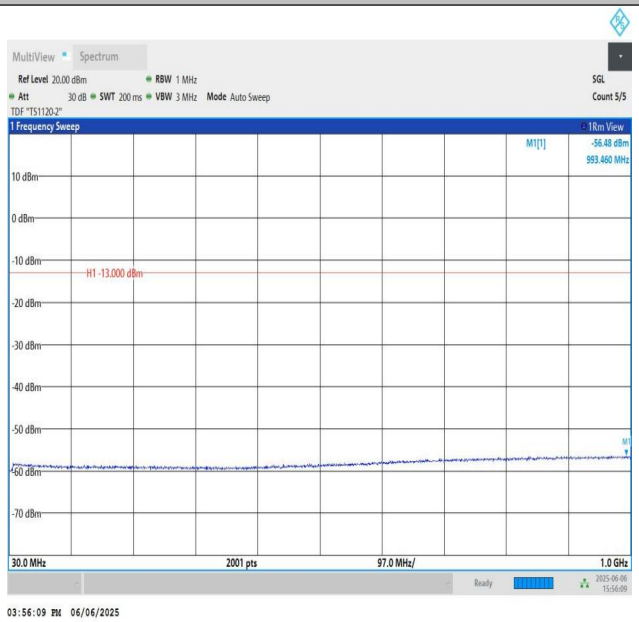
Band2-20MHz-QPSK-18900-PASS



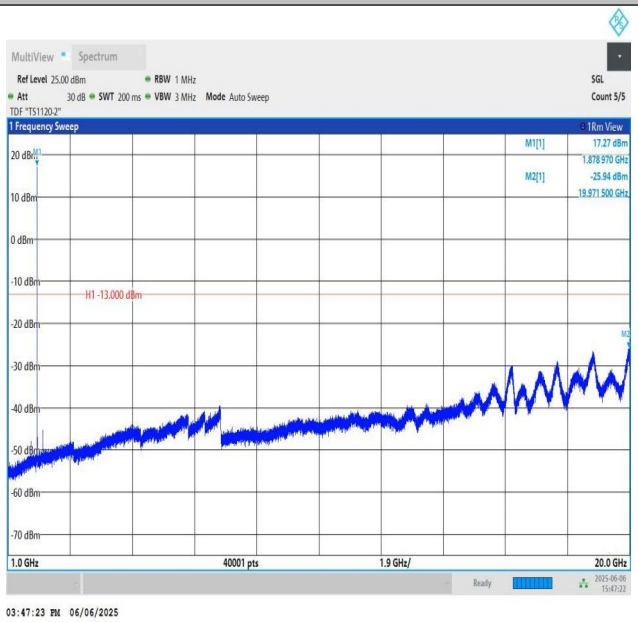
Band2-20MHz-QPSK-19100-PASS



Band2-20MHz-QPSK-19100-PASS



Band2-20MHz-QPSK-19100-PASS



Band2-20MHz-QPSK-19100-PASS

Frequency Stability for M1

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	18900	QPSK	6	0	Low	VN	NT	11.01	0.005856	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	VL	NT	11.32	0.006021	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	VH	NT	11.37	0.006048	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	18900	QPSK	6	0	Low	NV	-30	11.49	0.006112	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	NV	-20	9.89	0.005261	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	NV	-10	11.47	0.006101	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	NV	0	10.85	0.005771	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	NV	10	11.63	0.006186	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	NV	20	11.44	0.006085	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	NV	30	12.85	0.006835	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	NV	40	11.72	0.006234	±2.5	PASS
Band2	20MHz	18900	QPSK	6	0	Low	NV	50	9.67	0.005144	±2.5	PASS

-------- THE END --------