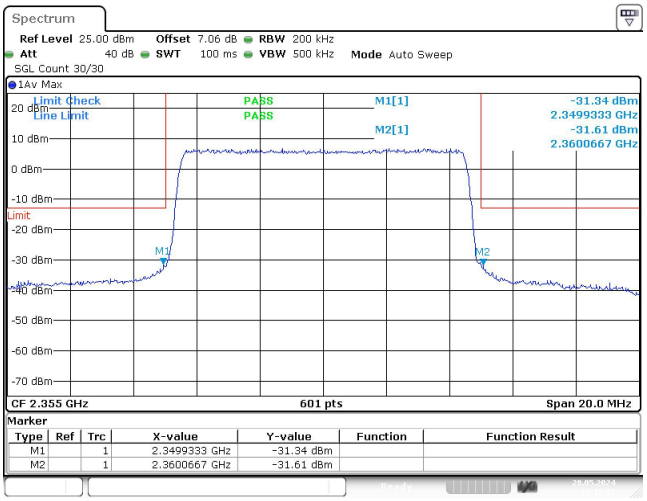
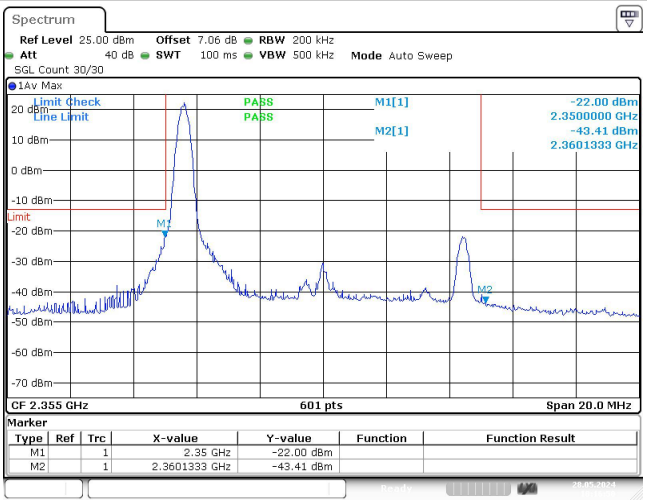
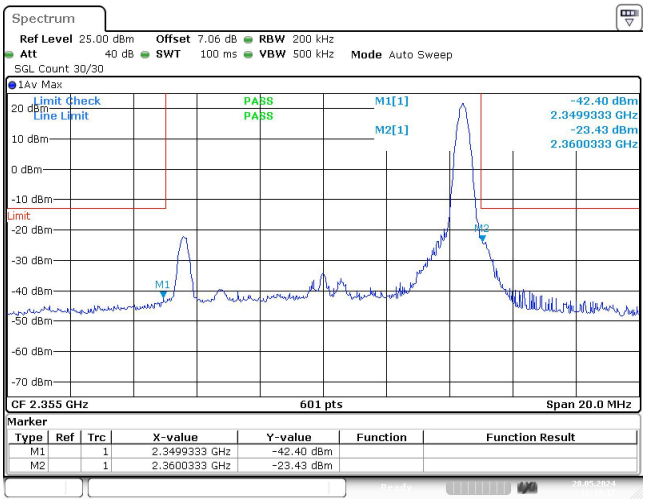


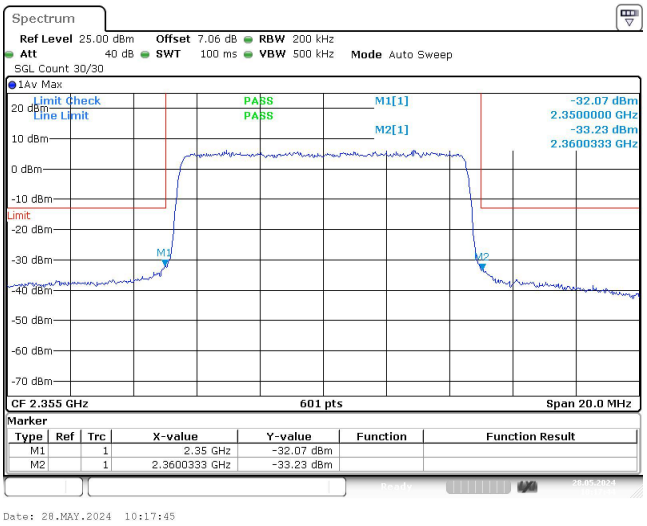
Band40-10MHz-16QAM-39200-1RB#0



Band40-10MHz-16QAM-39200-1RB#49



Band40-10MHz-16QAM-39200-50RB#0


Spectrum
Ref Level 25.00 dBm Offset 7.06 dB RBW 200 kHz
Att 40 dB SWT 100 ms VBW 500 kHz Mode Auto Sweep
SGL Count 30/30
1Av Max
Limit Check PASS
Line Limit PASS
M1[1] -32.07 dBm
2.3500000 GHz
M2[1] -33.23 dBm
2.3600333 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
Limit
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
M1
M2
CF 2.355 GHz
601 pts
Span 20.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.35 GHz -32.07 dBm
M2 1 2.3600333 GHz -33.23 dBm
Date: 28.MAY.2024 10:17:45

Appendix E: Conducted Spurious Emission

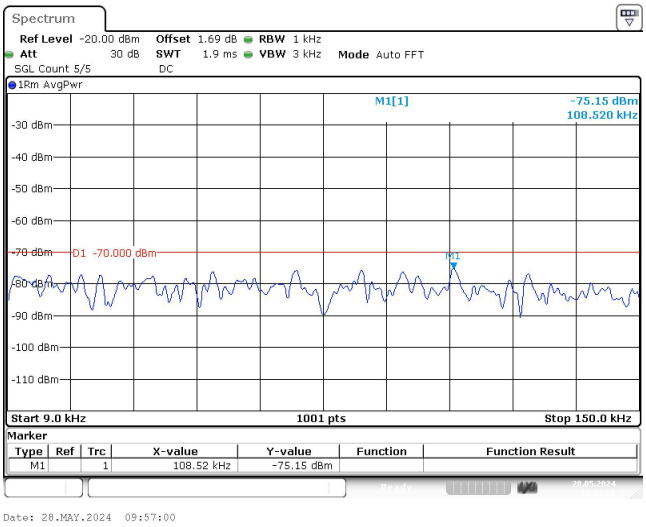
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band40	5MHz	QPSK	39175	1RB#0	Range1:0.009~0.15MHz	-75.15	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range2:0.15~30MHz	-73.02	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range3:30~1000MHz	-55.36	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range4:1000~2288MHz	-50.95	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range5:2288~2292MHz	-49.29	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range6:2292~2296MHz	-50.69	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range7:2296~2300MHz	-48.89	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range8:2320~2324MHz	-50.48	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range9:2324~2328MHz	-51.71	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range10:2328~2337MHz	-49.89	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range11:2337~2341MHz	-50.39	PASS
Band40	5MHz	QPSK	39175	1RB#0	Range12:2341~2345MHz	-43.44	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range1:0.009~0.15MHz	-74.77	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range2:0.15~30MHz	-72.15	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range3:30~1000MHz	-55.34	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range4:1000~2288MHz	-51.44	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range5:2288~2292MHz	-49.13	PASS

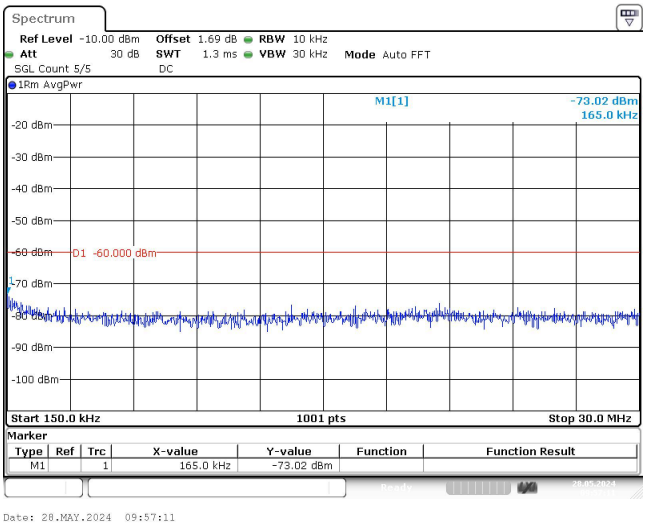
Band40	10MHz	QPSK	39200	1RB#0	Range6:2292~2296MHz	-50.55	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range7:2296~2300MHz	-48.44	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range8:2320~2324MHz	-51.84	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range9:2324~2328MHz	-51.11	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range10:2328~2337MHz	-50.87	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range11:2337~2341MHz	-52.04	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range12:2341~2345MHz	-50.61	PASS

Test Graphs

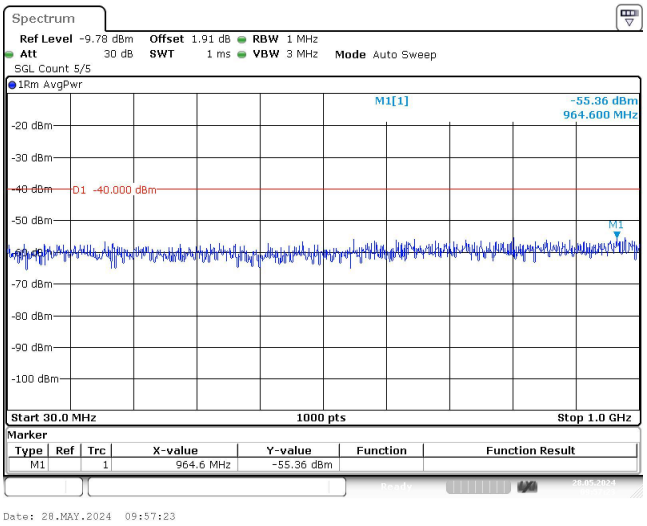
Band40-5MHz-QPSK-39175-1RB#0-Range1:0.009~0.15MHz



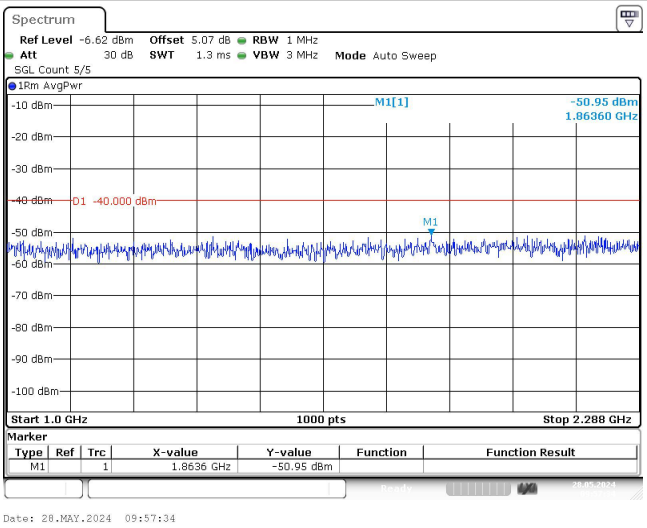
Band40-5MHz-QPSK-39175-1RB#0-Range2:0.15~30MHz



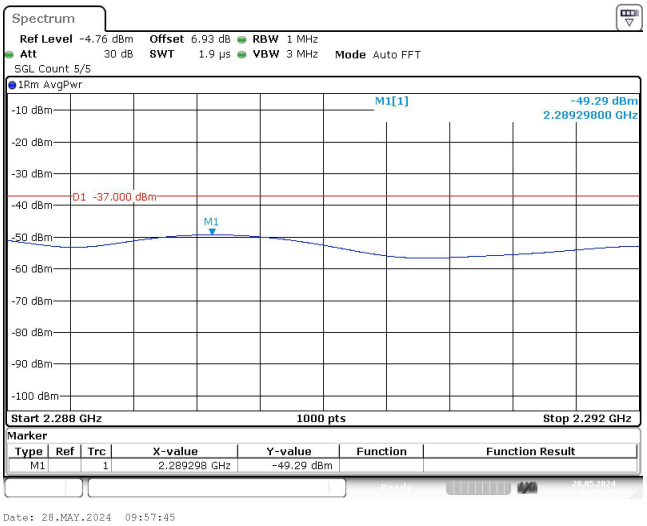
Band40-5MHz-QPSK-39175-1RB#0-Range3:30~1000MHz



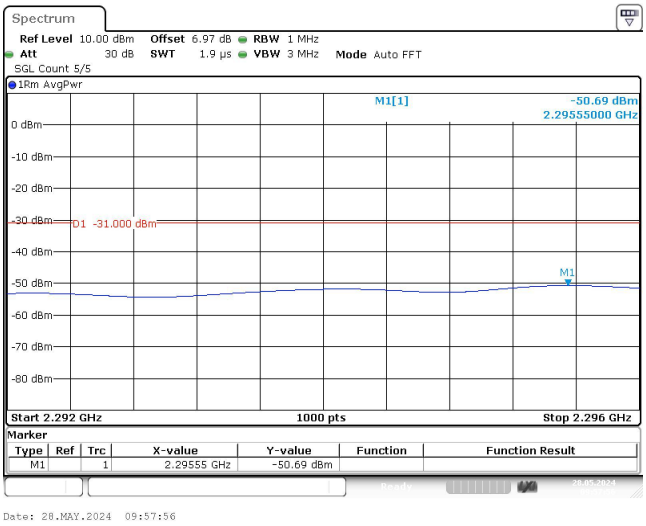
Band40-5MHz-QPSK-39175-1RB#0-Range4:1000~2288MHz



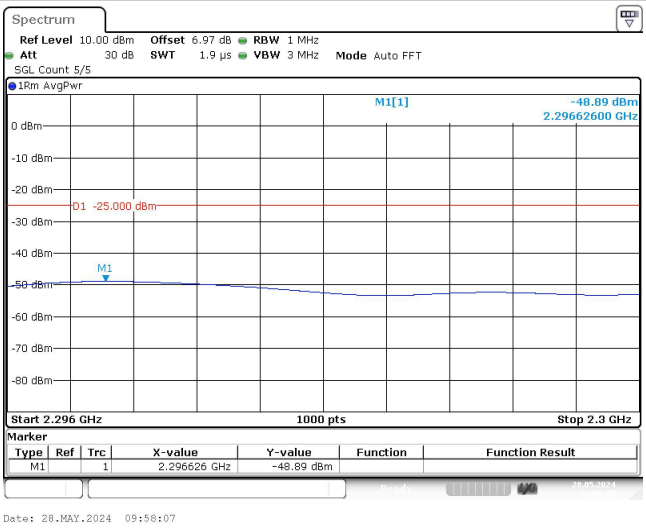
Band40-5MHz-QPSK-39175-1RB#0-Range5:2288~2292MHz



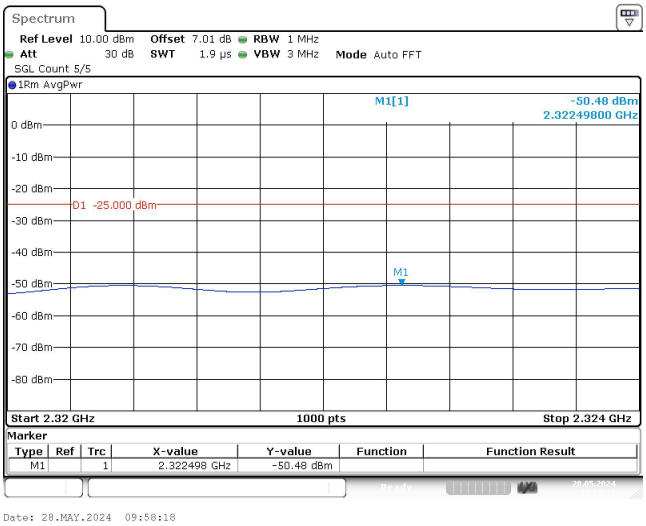
Band40-5MHz-QPSK-39175-1RB#0-Range6:2292~2296MHz



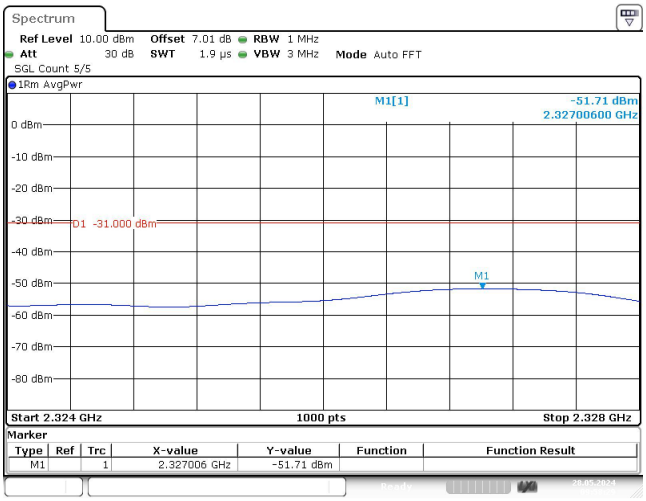
Band40-5MHz-QPSK-39175-1RB#0-Range7:2296~2300MHz



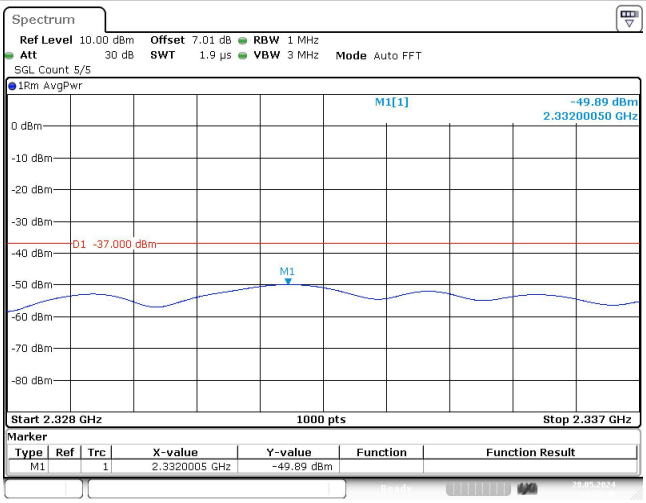
Band40-5MHz-QPSK-39175-1RB#0-Range8:2320~2324MHz



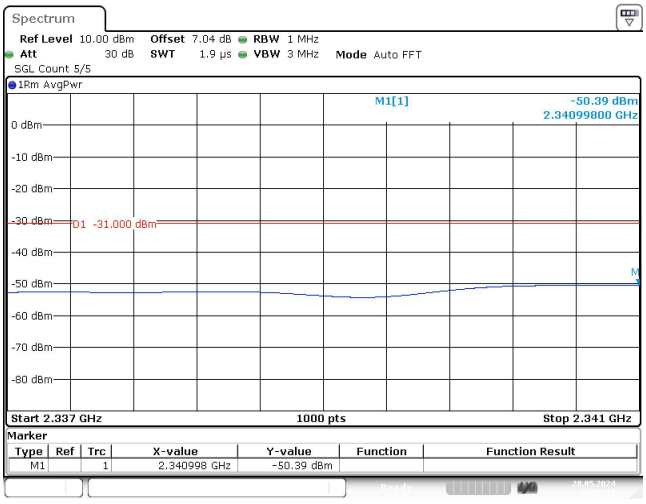
Band40-5MHz-QPSK-39175-1RB#0-Range9:2324~2328MHz



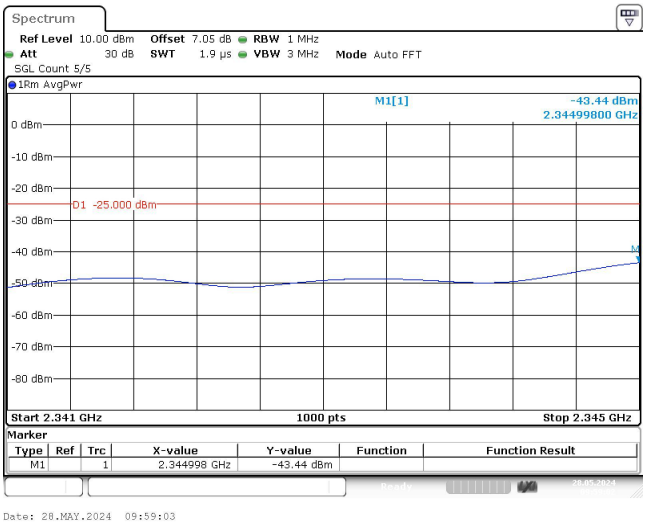
Band40-5MHz-QPSK-39175-1RB#0-Range10:2328~2337MHz



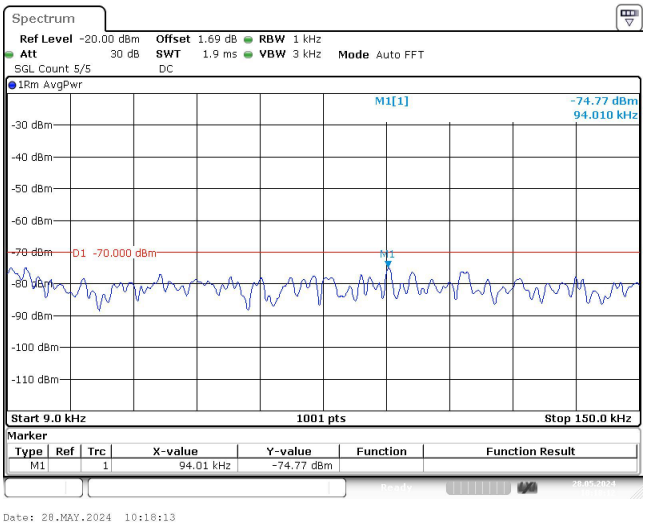
Band40-5MHz-QPSK-39175-1RB#0-Range11:2337~2341MHz



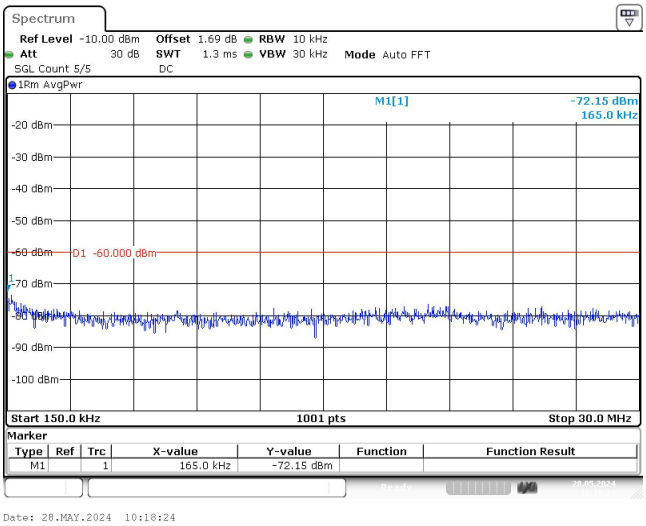
Band40-5MHz-QPSK-39175-1RB#0-Range12:2341~2345MHz



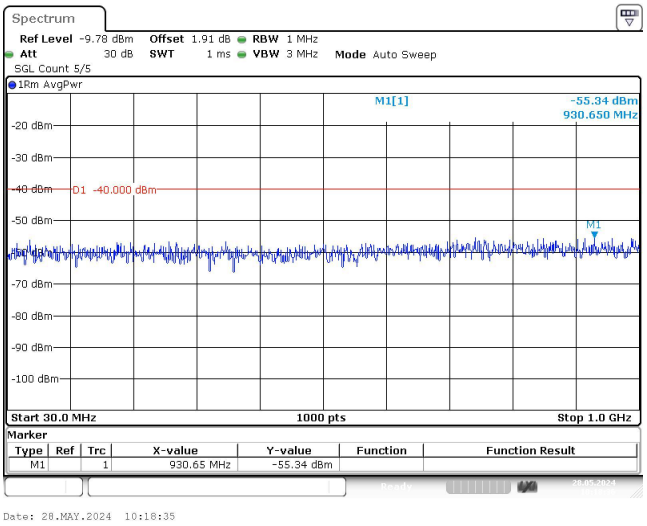
Band40-10MHz-QPSK-39200-1RB#0-Range1:0.009~0.15MHz



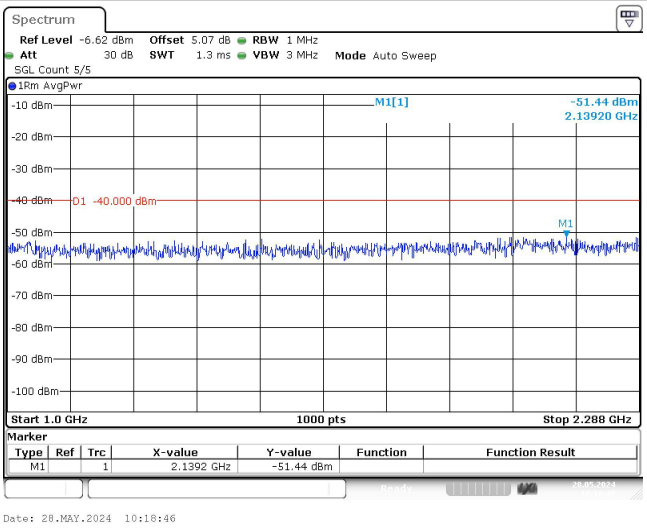
Band40-10MHz-QPSK-39200-1RB#0-Range2:0.15~30MHz



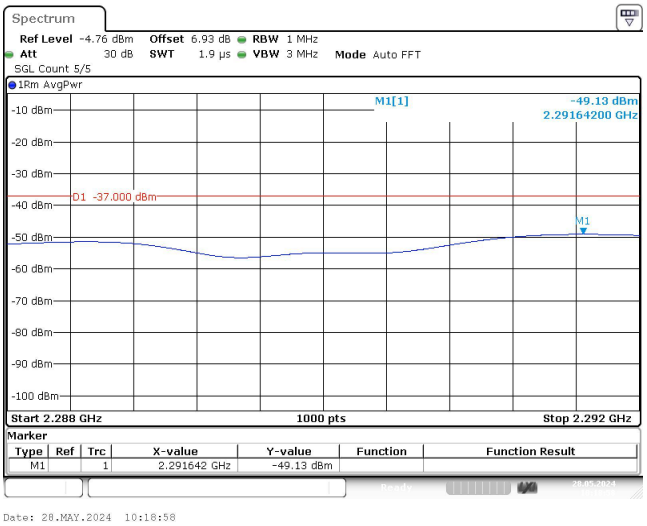
Band40-10MHz-QPSK-39200-1RB#0-Range3:30~1000MHz



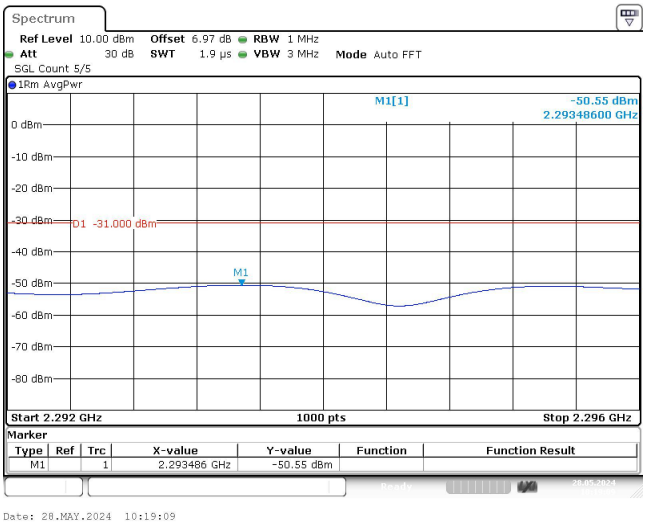
Band40-10MHz-QPSK-39200-1RB#0-Range4:1000~2288MHz



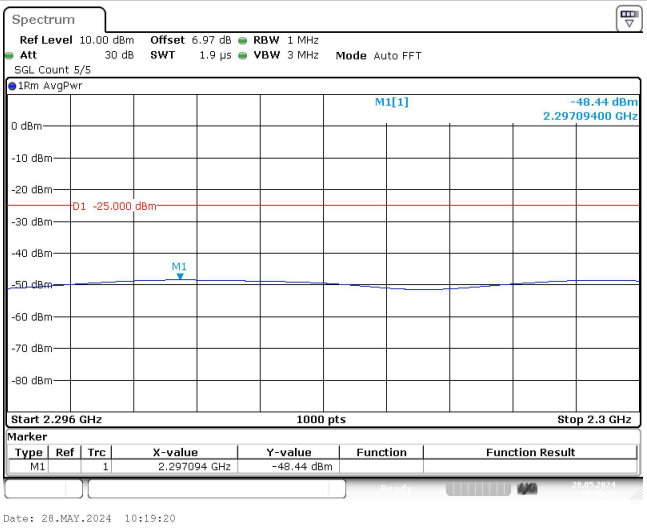
Band40-10MHz-QPSK-39200-1RB#0-Range5:2288~2292MHz



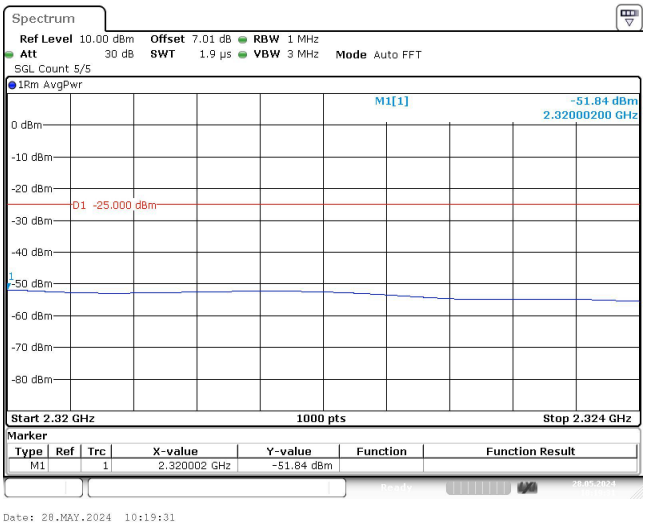
Band40-10MHz-QPSK-39200-1RB#0-Range6:2292~2296MHz



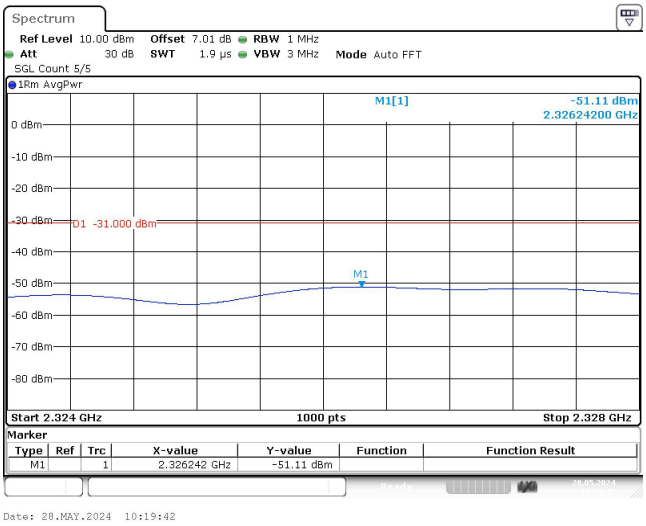
Band40-10MHz-QPSK-39200-1RB#0-Range7:2296~2300MHz



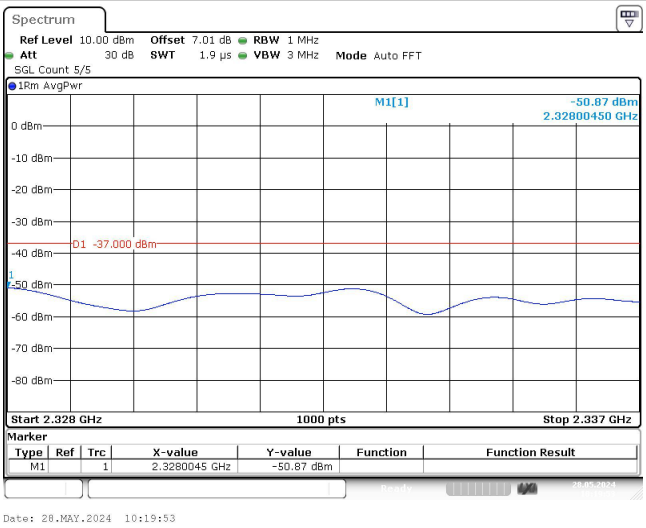
Band40-10MHz-QPSK-39200-1RB#0-Range8:2320~2324MHz



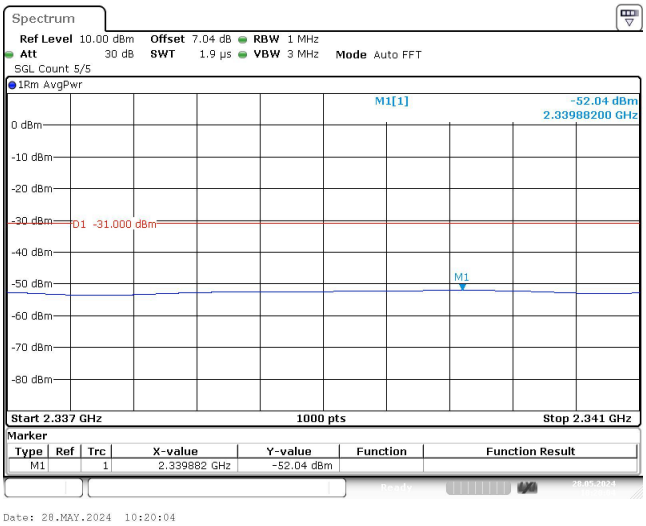
Band40-10MHz-QPSK-39200-1RB#0-Range9:2324~2328MHz



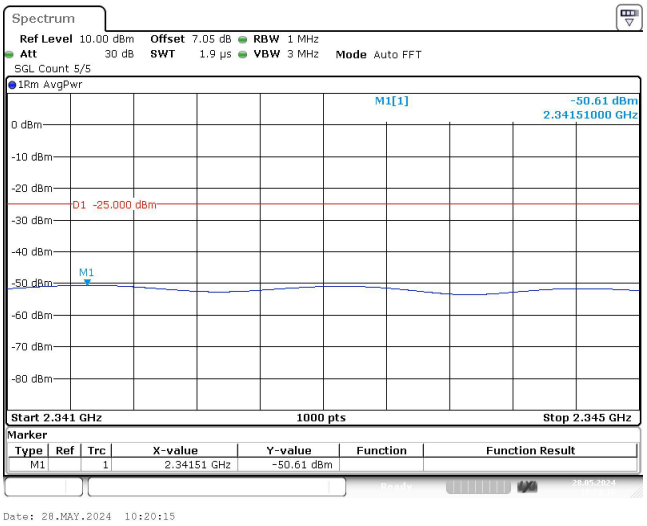
Band40-10MHz-QPSK-39200-1RB#0-Range10:2328~2337MHz



Band40-10MHz-QPSK-39200-1RB#0-Range11:2337~2341MHz



Band40-10MHz-QPSK-39200-1RB#0-Range12:2341~2345MHz


Spectrum
Ref Level 10.00 dBm Offset 7.05 dB RBW 1 MHz
Att 30 dB SWT 1.9 µs VBW 3 MHz Mode Auto FFT
SGL Count 5/5
1Rm AvgPwr
M1[1] -50.61 dBm
2.34151000 GHz
0 dBm
-10 dBm
-20 dBm
D1 -25.000 dBm
-30 dBm
-40 dBm
M1
-50 dBm
-60 dBm
-70 dBm
-80 dBm
Start 2.341 GHz 1000 pts Stop 2.345 GHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.34151 GHz -50.61 dBm
Date: 28.MAY.2024 10:20:15

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	5MHz	QPSK	39175	25RB#0	VL	NT	-13.28	-0.005645	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	VN	NT	-10.24	-0.004353	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	VH	NT	-5.22	-0.002219	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VL	NT	-10.76	-0.004569	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VN	NT	4.62	0.001962	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	VH	NT	-12.04	-0.005113	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VL	NT	-16.06	-0.006812	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VN	NT	9.20	0.003902	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	VH	NT	-13.53	-0.005739	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VL	NT	-6.01	-0.002555	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VN	NT	-11.19	-0.004757	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	VH	NT	-5.46	-0.002321	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VL	NT	-7.82	-0.003321	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VN	NT	-12.27	-0.005210	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	VH	NT	-17.52	-0.007439	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	VL	NT	-6.04	-0.002562	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	VN	NT	-15.52	-0.006583	±2.5	PASS

Band40	5MHz	16QAM	39225	25RB#0	VH	NT	-8.01	-0.003398	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VL	NT	6.98	0.002964	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VN	NT	-12.79	-0.005431	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VH	NT	-7.05	-0.002994	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VL	NT	-9.28	-0.003941	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VN	NT	-13.22	-0.005614	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VH	NT	-11.36	-0.004824	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	5MHz	QPSK	39175	25RB#0	NV	-30	4.89	0.002079	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	-20	-7.78	-0.003307	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	-10	-11.79	-0.005012	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	0	4.62	0.001964	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	10	-18.90	-0.008034	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	20	-5.94	-0.002525	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	30	-13.43	-0.005709	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	40	-10.56	-0.004489	±2.5	PASS
Band40	5MHz	QPSK	39175	25RB#0	NV	50	-8.21	-0.003490	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	-30	-14.35	-0.006093	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	-20	-18.57	-0.007885	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	-10	-15.08	-0.006403	±2.5	PASS

Band40	5MHz	QPSK	39200	25RB#0	NV	0	-8.61	-0.003656	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	10	-12.70	-0.005393	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	20	-11.24	-0.004773	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	30	-12.50	-0.005308	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	40	-6.49	-0.002756	±2.5	PASS
Band40	5MHz	QPSK	39200	25RB#0	NV	50	3.82	0.001622	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	-30	-10.00	-0.004242	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	-20	-7.12	-0.003020	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	-10	-9.34	-0.003962	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	0	-14.31	-0.006070	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	10	-14.05	-0.005960	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	20	-11.83	-0.005018	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	30	-8.67	-0.003678	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	40	-7.21	-0.003058	±2.5	PASS
Band40	5MHz	QPSK	39225	25RB#0	NV	50	-14.52	-0.006159	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	-30	-9.64	-0.004098	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	-20	4.72	0.002006	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	-10	-16.16	-0.006869	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	0	8.17	0.003473	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	10	-14.16	-0.006019	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	20	-10.61	-0.004510	±2.5	PASS

Band40	5MHz	16QAM	39175	25RB#0	NV	30	-10.70	-0.004548	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	40	-11.43	-0.004859	±2.5	PASS
Band40	5MHz	16QAM	39175	25RB#0	NV	50	-14.68	-0.006240	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	-30	-10.46	-0.004442	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	-20	-16.78	-0.007125	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	-10	-10.00	-0.004246	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	0	-15.82	-0.006718	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	10	-9.34	-0.003966	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	20	-11.73	-0.004981	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	30	-14.20	-0.006030	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	40	-12.29	-0.005219	±2.5	PASS
Band40	5MHz	16QAM	39200	25RB#0	NV	50	-11.56	-0.004909	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	-30	-13.75	-0.005832	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	-20	-13.23	-0.005612	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	-10	-3.76	-0.001595	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	0	-13.72	-0.005820	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	10	3.12	0.001323	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	20	-8.21	-0.003483	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	30	-14.96	-0.006346	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	40	-5.02	-0.002129	±2.5	PASS
Band40	5MHz	16QAM	39225	25RB#0	NV	50	-12.73	-0.005400	±2.5	PASS

Band40	10MHz	QPSK	39200	50RB#0	NV	-30	-6.72	-0.002854	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	-20	-12.56	-0.005333	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	-10	-9.21	-0.003911	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	0	-12.00	-0.005096	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	10	-11.26	-0.004781	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	20	-8.83	-0.003749	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	30	-11.64	-0.004943	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	40	-4.22	-0.001792	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	50	-17.08	-0.007253	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-30	-11.09	-0.004709	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-20	-8.57	-0.003639	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-10	-10.49	-0.004454	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	0	-11.16	-0.004739	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	10	-9.81	-0.004166	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	20	-12.43	-0.005278	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	30	-6.27	-0.002662	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	40	-6.28	-0.002667	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	50	-18.40	-0.007813	±2.5	PASS