Appendix N: Test Results of LTE Band 30 operation

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	23.35	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.34	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.29	PASS
Band30	5MHz	QPSK	27685	12RB#0	22.33	PASS
Band30	5MHz	QPSK	27685	12RB#6	22.34	PASS
Band30	5MHz	QPSK	27685	12RB#13	22.23	PASS
Band30	5MHz	QPSK	27685	25RB#0	22.23	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.28	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.35	PASS
Band30	5MHz	QPSK	27710	1RB#24	23.30	PASS
Band30	5MHz	QPSK	27710	12RB#13	22.26	PASS
Band30	5MHz	QPSK	27710	12RB#0	22.25	PASS
Band30	5MHz	QPSK	27710	12RB#6	22.25	PASS
Band30	5MHz	QPSK	27710	25RB#0	22.25	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.23	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.30	PASS
Band30	5MHz	QPSK	27735	1RB#24	23.26	PASS
Band30	5MHz	QPSK	27735	12RB#6	22.20	PASS
Band30	5MHz	QPSK	27735	12RB#0	22.19	PASS
Band30	5MHz	QPSK	27735	12RB#13	22.20	PASS
Band30	5MHz	QPSK	27735	25RB#0	22.23	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.33	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.28	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.23	PASS
Band30	5MHz	16QAM	27685	12RB#6	21.37	PASS
Band30	5MHz	16QAM	27685	12RB#13	21.28	PASS
Band30	5MHz	16QAM	27685	12RB#0	21.41	PASS
Band30	5MHz	16QAM	27685	25RB#0	21.30	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.25	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.28	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.28	PASS
Band30	5MHz	16QAM	27710	12RB#13	21.28	PASS

Band30	5MHz	16QAM	27710	12RB#6	21.28	PASS
Band30	5MHz	16QAM	27710	12RB#0	21.29	PASS
Band30	5MHz	16QAM	27710	25RB#0	21.31	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.24	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.35	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.27	PASS
Band30	5MHz	16QAM	27735	12RB#0	21.32	PASS
Band30	5MHz	16QAM	27735	12RB#13	21.32	PASS
Band30	5MHz	16QAM	27735	12RB#6	21.31	PASS
Band30	5MHz	16QAM	27735	25RB#0	21.26	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.30	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.23	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.25	PASS
Band30	10MHz	QPSK	27710	25RB#25	22.33	PASS
Band30	10MHz	QPSK	27710	25RB#0	22.28	PASS
Band30	10MHz	QPSK	27710	25RB#12	22.25	PASS
Band30	10MHz	QPSK	27710	50RB#0	22.32	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.27	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.27	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.35	PASS
Band30	10MHz	16QAM	27710	25RB#0	21.28	PASS
Band30	10MHz	16QAM	27710	25RB#25	21.34	PASS
Band30	10MHz	16QAM	27710	25RB#12	21.29	PASS
Band30	10MHz	16QAM	27710	50RB#0	21.32	PASS

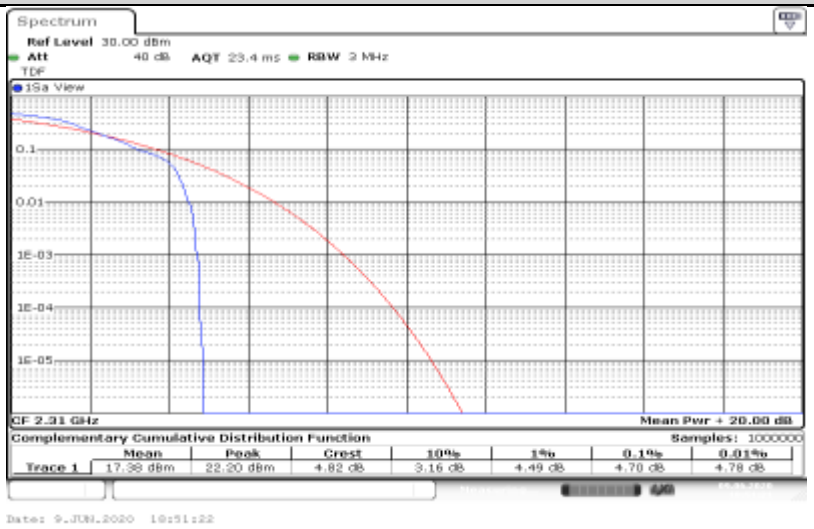
2. Peak-to-Average Ratio（CCDF）

2.1 Test Result

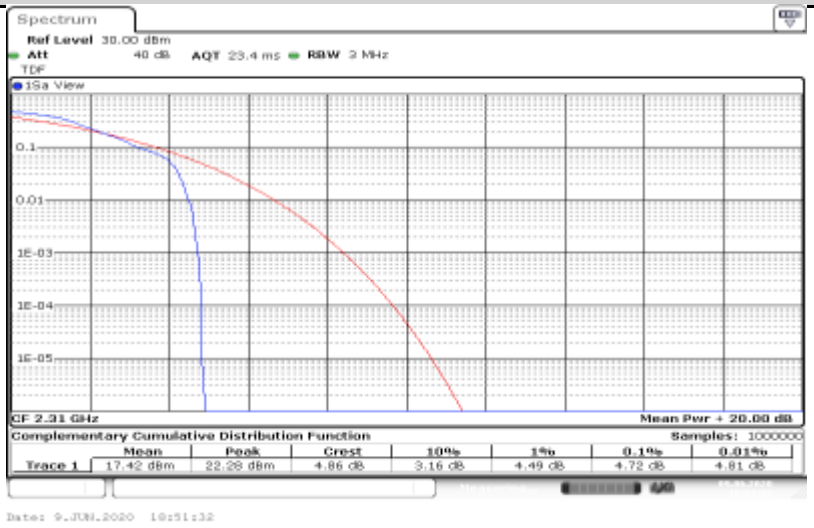
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	100RB#0	4.70	13	PASS
Band30	10MHz	16QAM	27710	100RB#0	4.72	13	PASS

2.2 Test Graphs

Band30-10MHz-QPSK-27710-100RB#0



Band30-10MHz-16QAM-27710-100RB#0



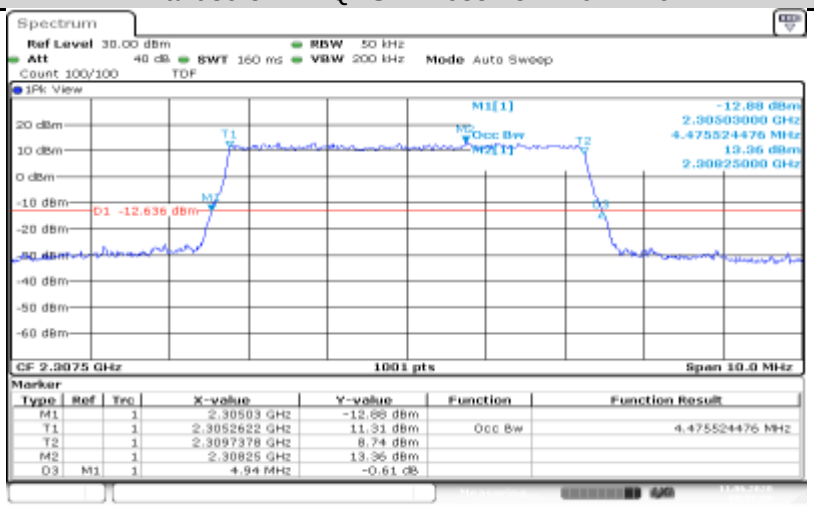
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

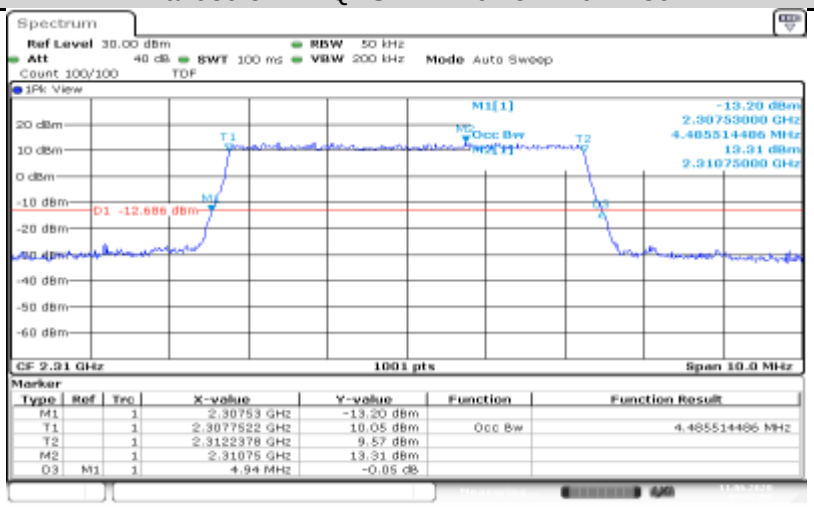
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.476	4.940	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.486	4.940	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.476	4.910	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.476	4.860	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.476	4.860	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.476	4.930	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.952	9.767	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.952	9.667	PASS

3.2 Test Graphs

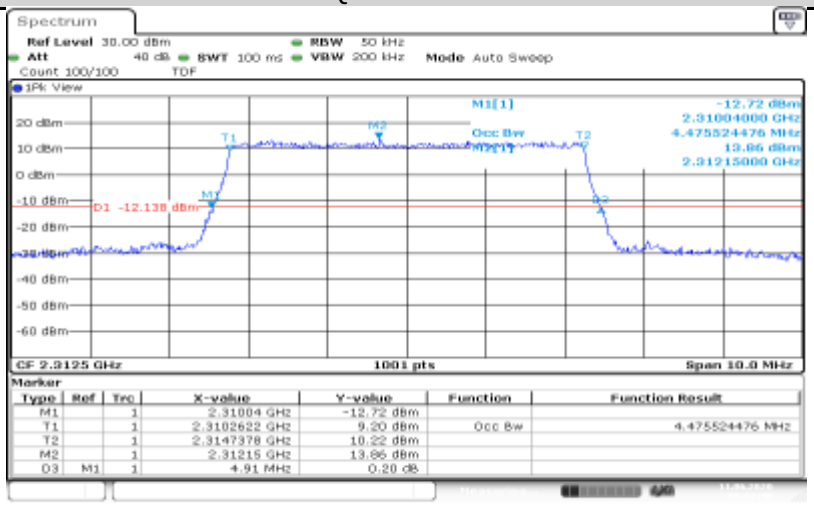
Band30-5MHz-QPSK-27685-25RB#0-4.476



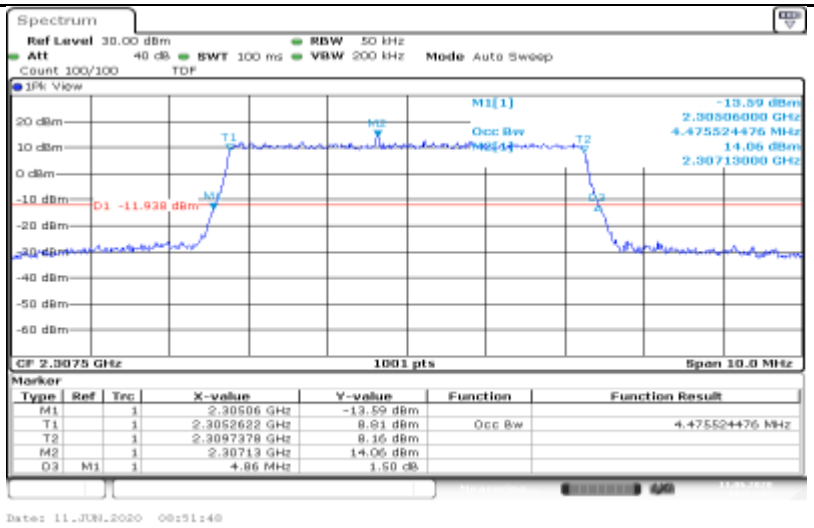
Band30-5MHz-QPSK-27710-25RB#0-4.486



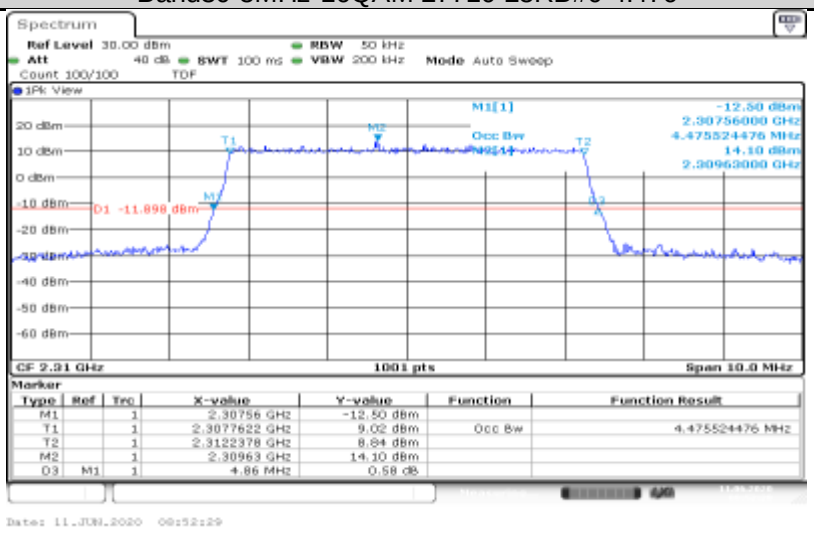
Band30-5MHz-QPSK-27735-25RB#0-4.476



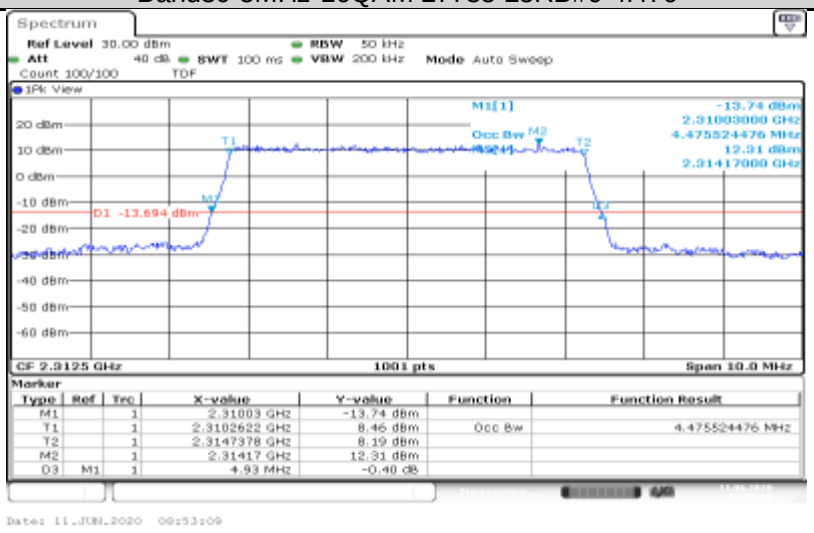
Band30-5MHz-16QAM-27685-25RB#0-4.476



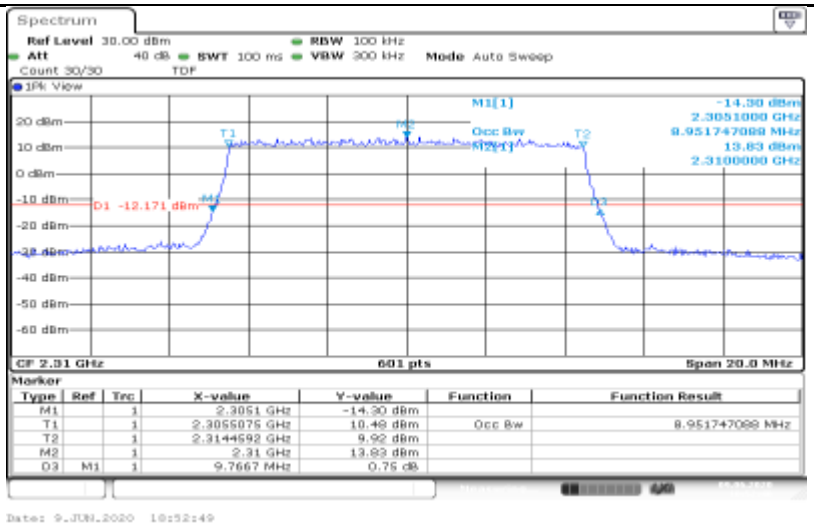
Band30-5MHz-16QAM-27710-25RB#0-4.476



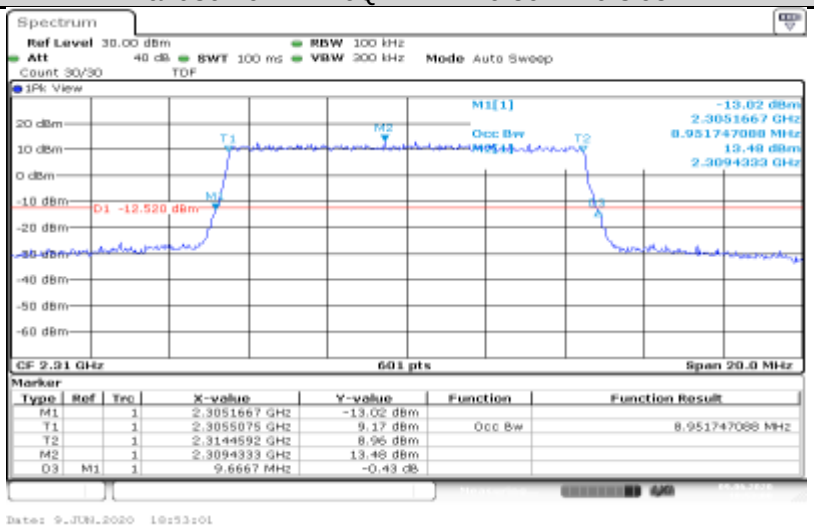
Band30-5MHz-16QAM-27735-25RB#0-4.476



Band30-10MHz-QPSK-27710-50RB#0-8.952



Band30-10MHz-16QAM-27710-50RB#0-8.952



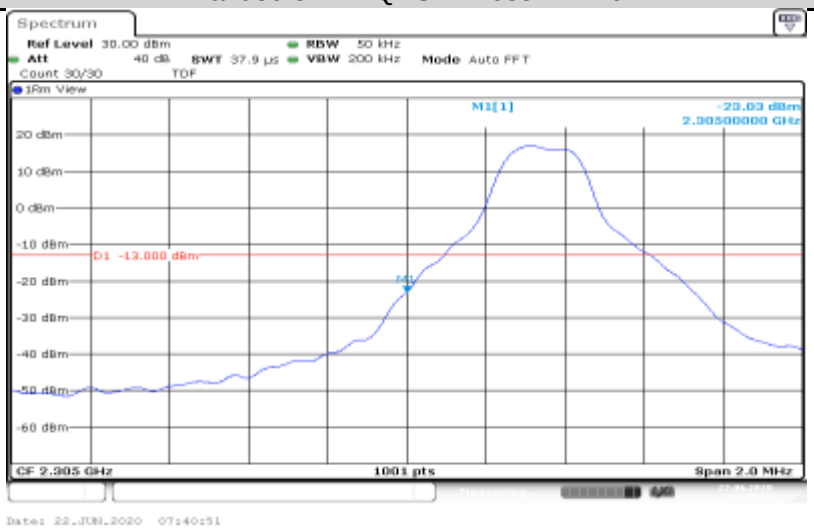
4. Band Edge

4.1 Test Result

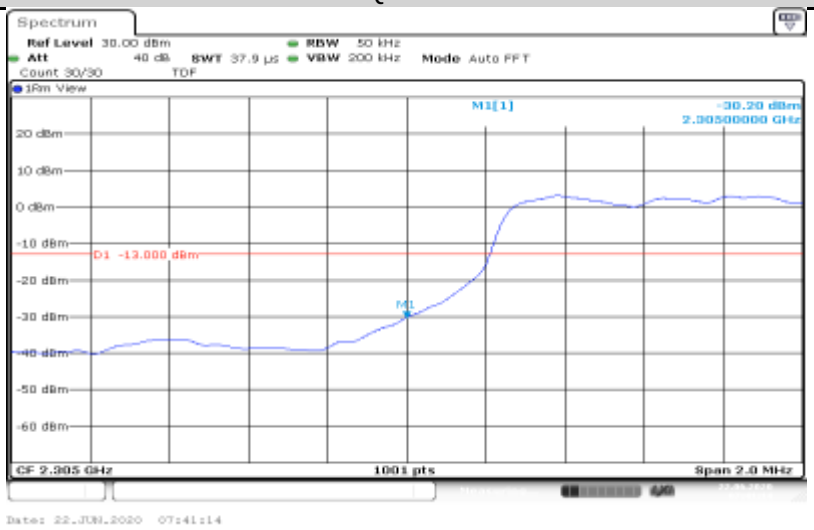
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	-23.03	PASS
Band30	5MHz	QPSK	27685	25RB#0	-30.20	PASS
Band30	5MHz	QPSK	27735	1RB#24	-22.29	PASS
Band30	5MHz	QPSK	27735	25RB#0	-26.99	PASS
Band30	5MHz	16QAM	27685	1RB#0	-26.31	PASS
Band30	5MHz	16QAM	27685	25RB#0	-34.07	PASS
Band30	5MHz	16QAM	27735	1RB#24	-25.88	PASS
Band30	5MHz	16QAM	27735	25RB#0	-32.32	PASS
Band30	10MHz	QPSK	27710	1RB#49	-47.08,-33.35	PASS
Band30	10MHz	QPSK	27710	1RB#0	-32.07,-46.36	PASS
Band30	10MHz	QPSK	27710	50RB#0	-28.81,-30.10	PASS
Band30	10MHz	16QAM	27710	1RB#49	-47.27,-38.44	PASS
Band30	10MHz	16QAM	27710	1RB#0	-34.35,-47.43	PASS
Band30	10MHz	16QAM	27710	50RB#0	-35.42,-31.24	PASS

4.2 Test Graphs

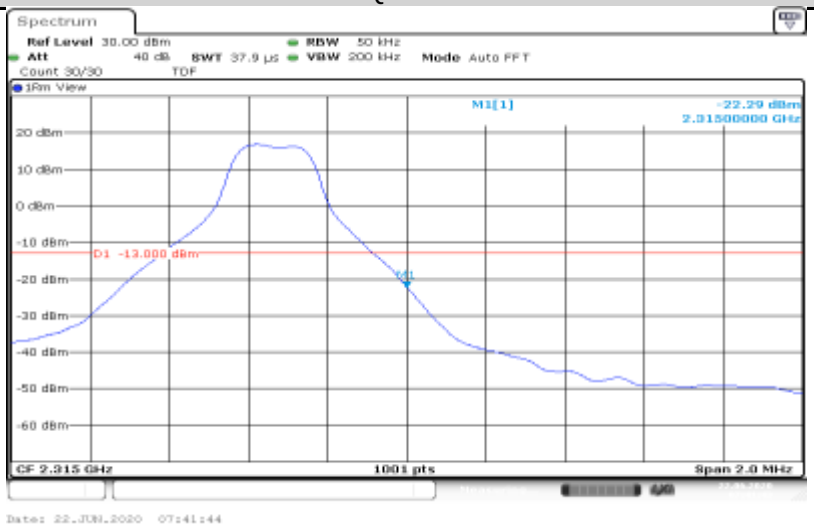
Band30-5MHz-QPSK-27685-1RB#0



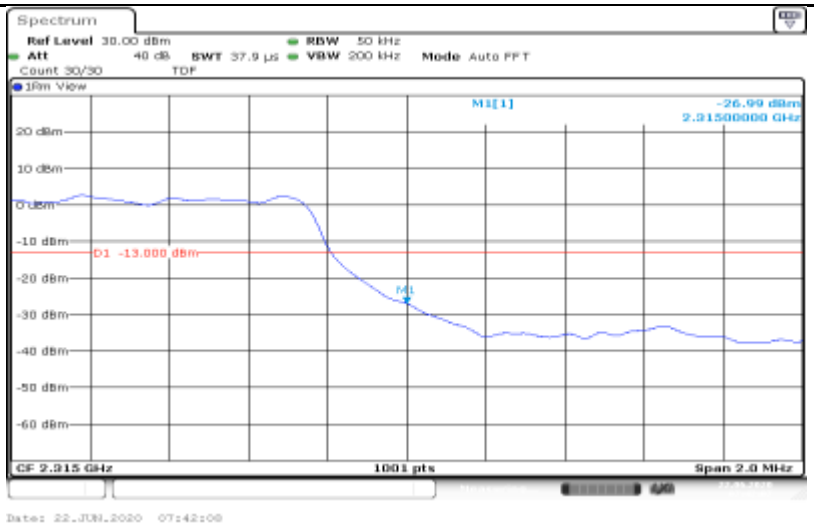
Band30-5MHz-QPSK-27685-25RB#0



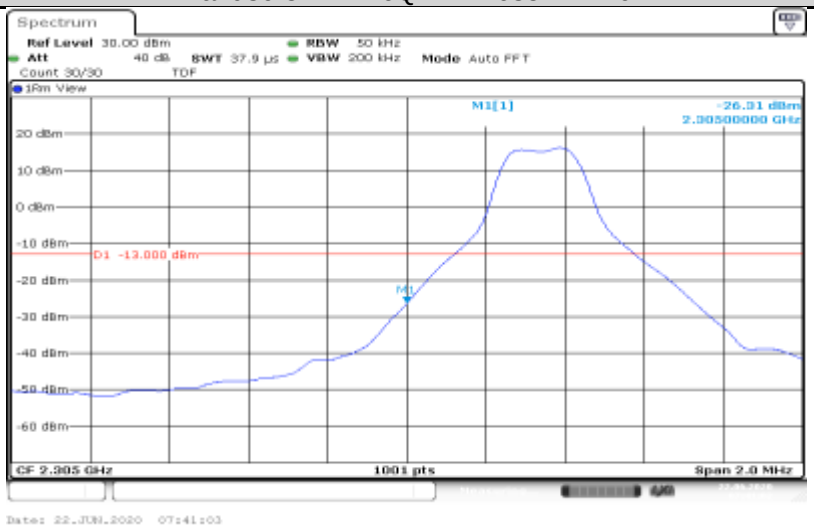
Band30-5MHz-QPSK-27735-1RB#24



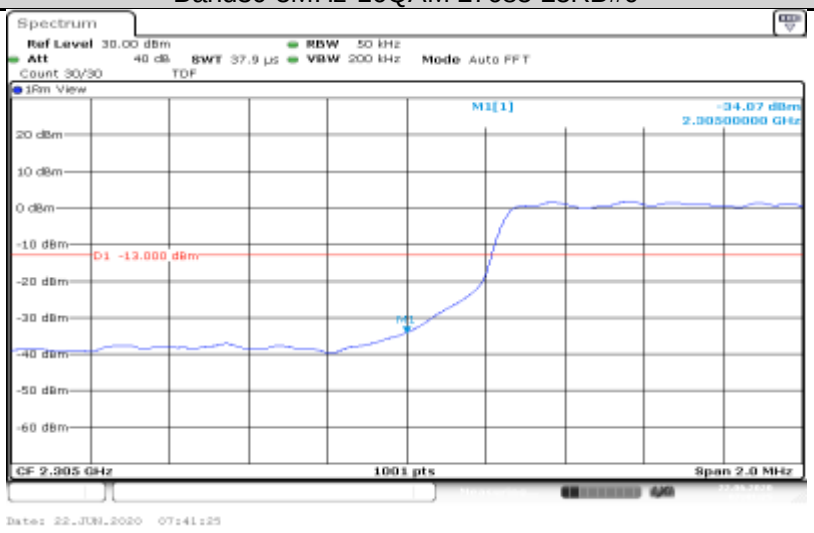
Band30-5MHz-QPSK-27735-25RB#0



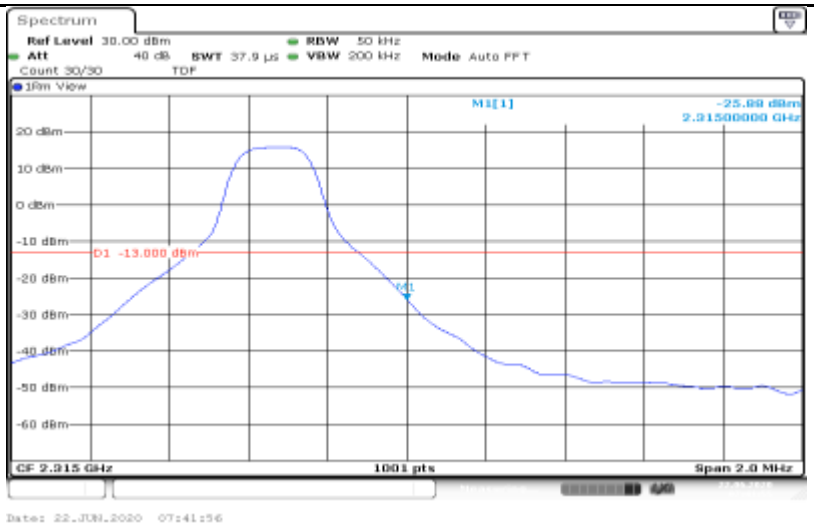
Band30-5MHz-16QAM-27685-1RB#0



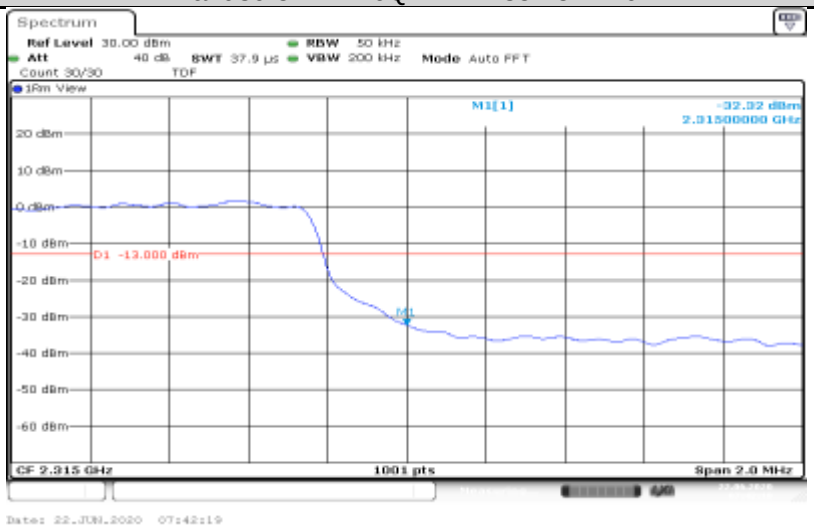
Band30-5MHz-16QAM-27685-25RB#0



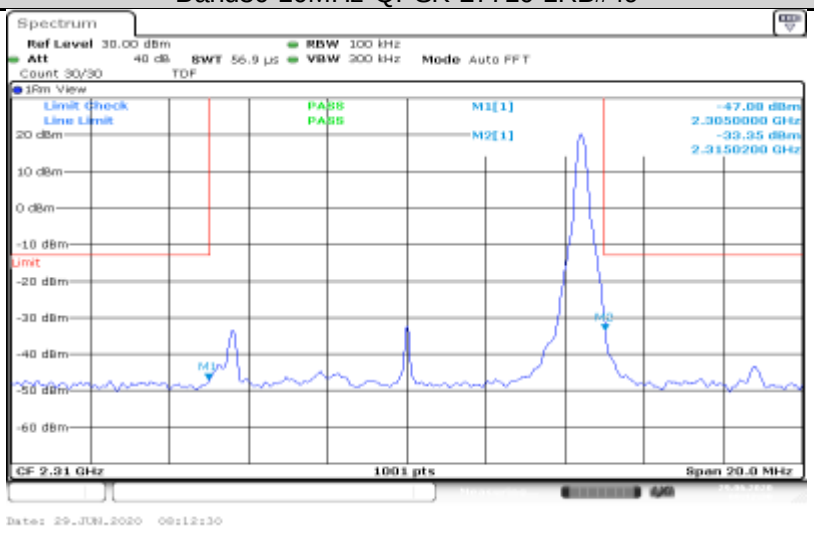
Band30-5MHz-16QAM-27735-1RB#24



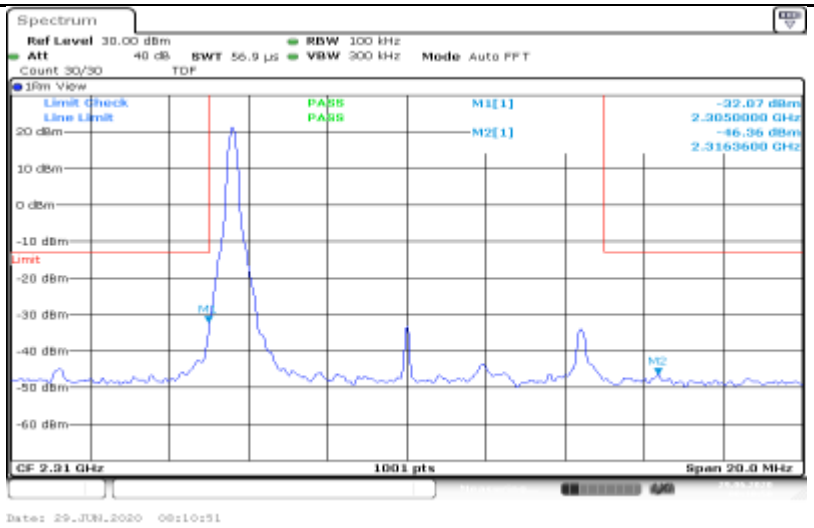
Band30-5MHz-16QAM-27735-25RB#0



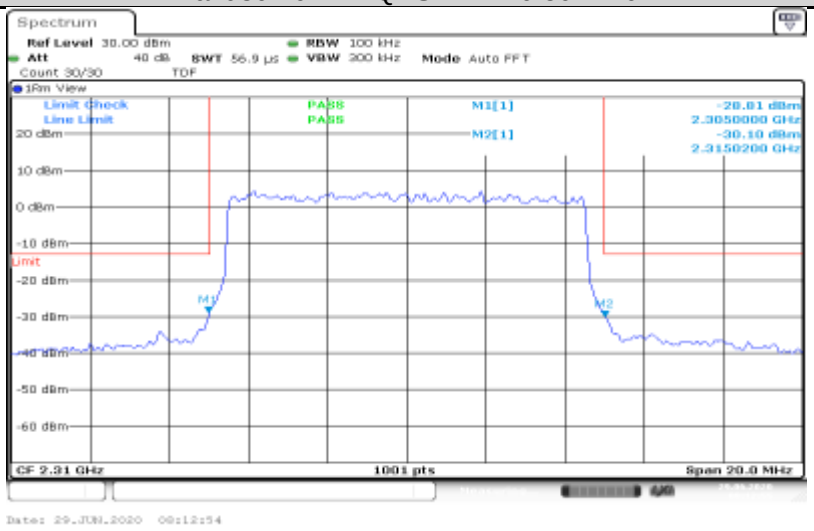
Band30-10MHz-QPSK-27710-1RB#49



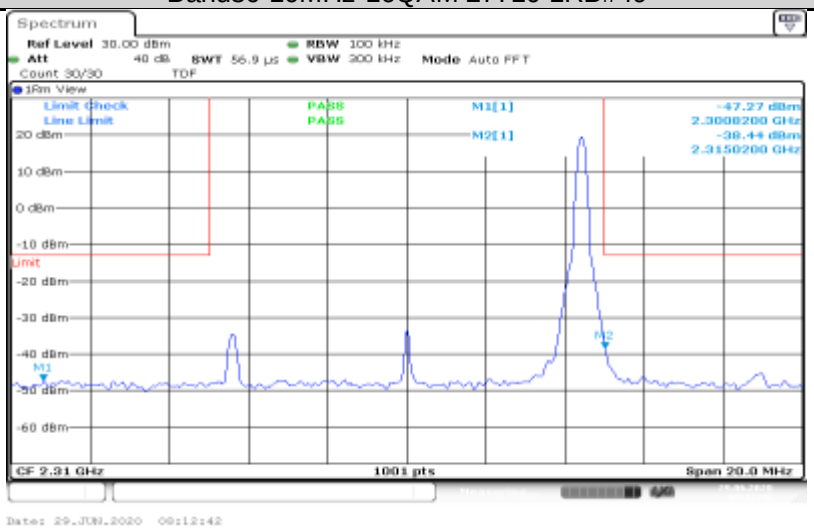
Band30-10MHz-QPSK-27710-1RB#0



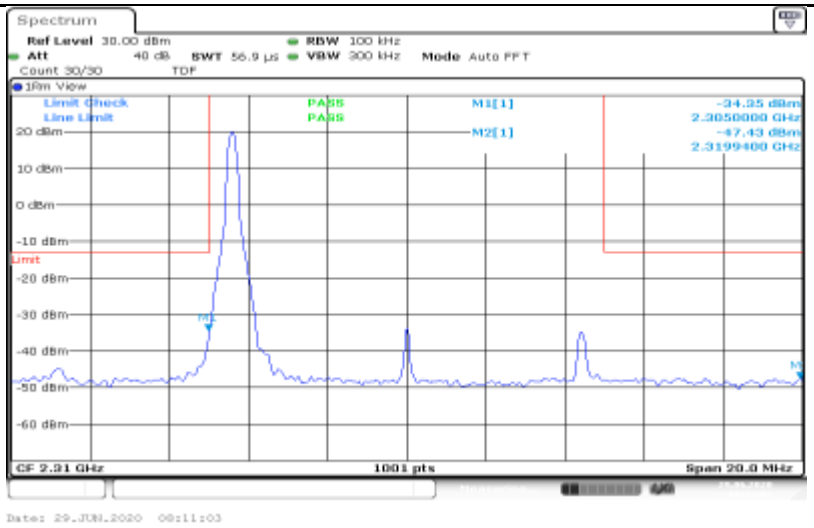
Band30-10MHz-QPSK-27710-50RB#0



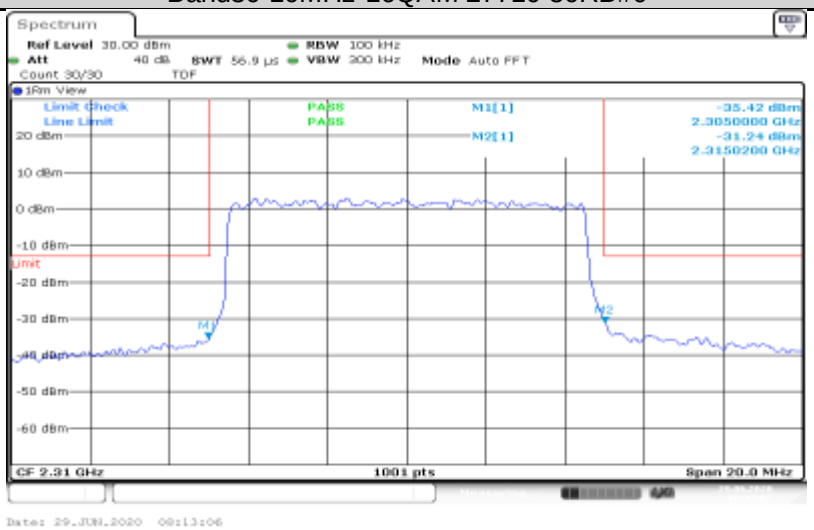
Band30-10MHz-16QAM-27710-1RB#49



Band30-10MHz-16QAM-27710-1RB#0



Band30-10MHz-16QAM-27710-50RB#0



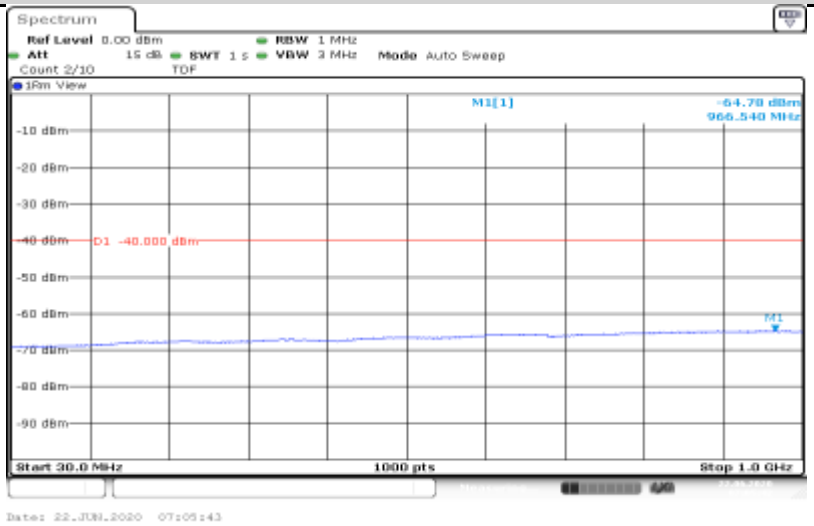
5. Conducted Spurious Emission

5.1 Test Result

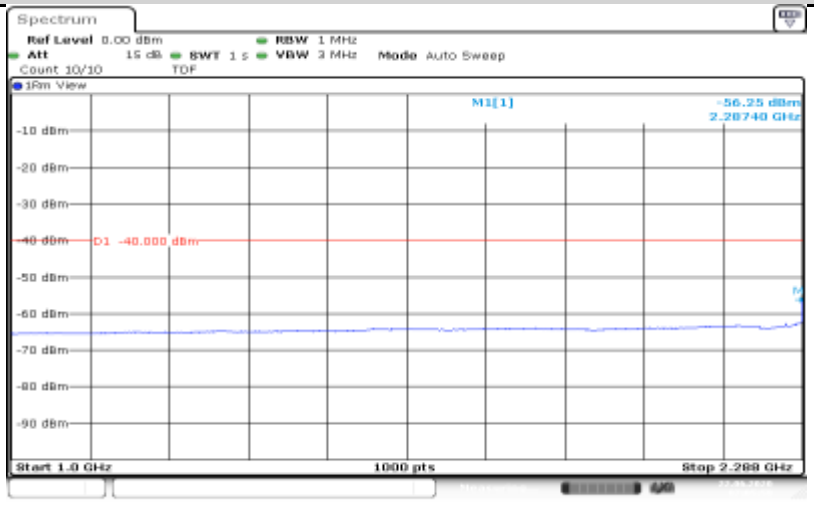
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band30	10MHz	QPSK	27710	1RB#0	Range1:30~1000MHz	-64.78	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range2:1000~2288MHz	-56.25	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range3:2288~2292MHz	-53.72	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range4:2292~2296MHz	-52.84	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range5:2296~2300MHz	-48.08	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range6:2300~2305MHz	-33.55	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range7:2320~2324MHz	-40.63	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range8:2324~2328MHz	-47.14	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range9:2328~2337MHz	-57.73	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range10:2337~2341MHz	-57.97	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range11:2341~2345MHz	-58	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range12:2360~2365MHz	-48.19	PASS
Band30	10MHz	QPSK	27710	1RB#0	Range13:2365~26500MHz	-42.18	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range1:30~1000MHz	-64.82	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range2:1000~2288MHz	-56.92	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range3:2288~2292MHz	-53.61	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range4:2292~2296MHz	-54.1	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range5:2296~2300MHz	-48.8	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range6:2300~2305MHz	-32.51	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range7:2320~2324MHz	-40.9	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range8:2324~2328MHz	-47.68	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range9:2328~2337MHz	-57.78	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range10:2337~2341MHz	-58.01	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range11:2341~2345MHz	-58.03	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range12:2360~2365MHz	-48.17	PASS
Band30	10MHz	16QAM	27710	1RB#0	Range13:2365~26500MHz	-42.26	PASS

5.2 Test Graphs

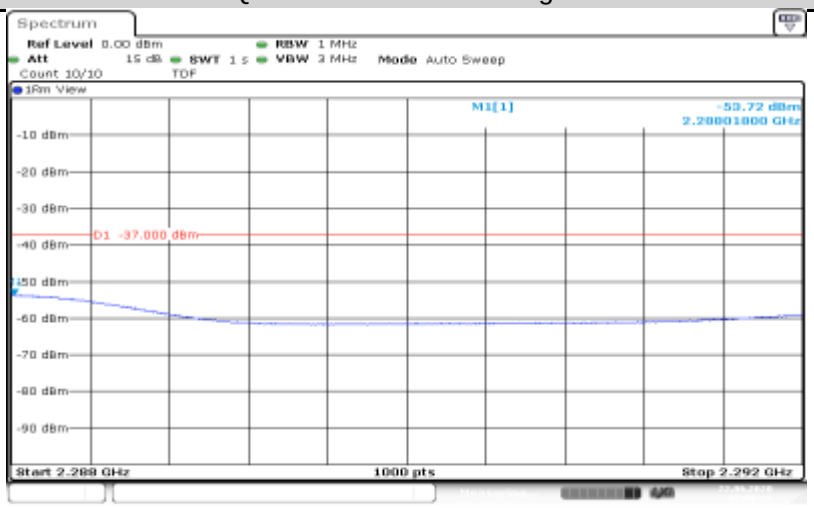
Band30-10MHz-QPSK-27710-1RB#0-Range1:30~1000MHz



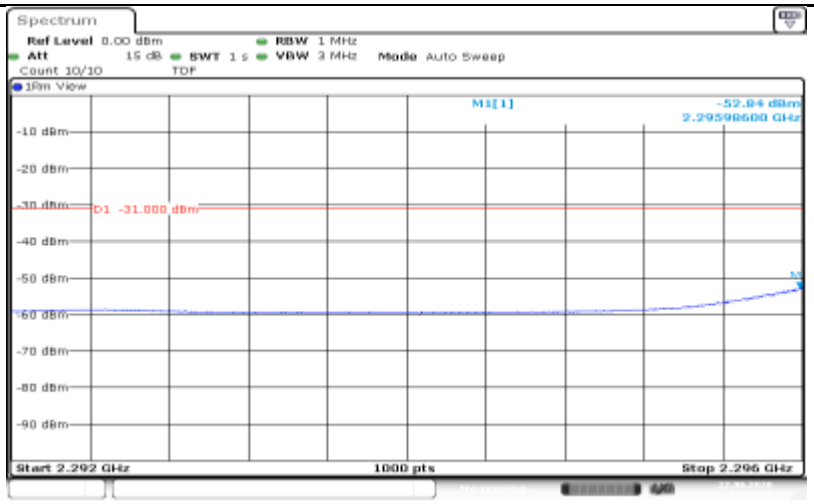
Band30-10MHz-QPSK-27710-1RB#0-Range2:1000~2288MHz



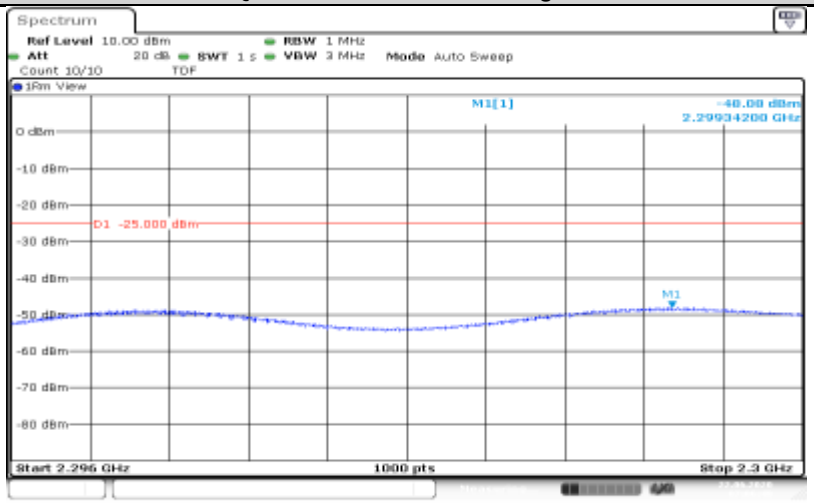
Band30-10MHz-QPSK-27710-1RB#0-Range3:2288~2292MHz



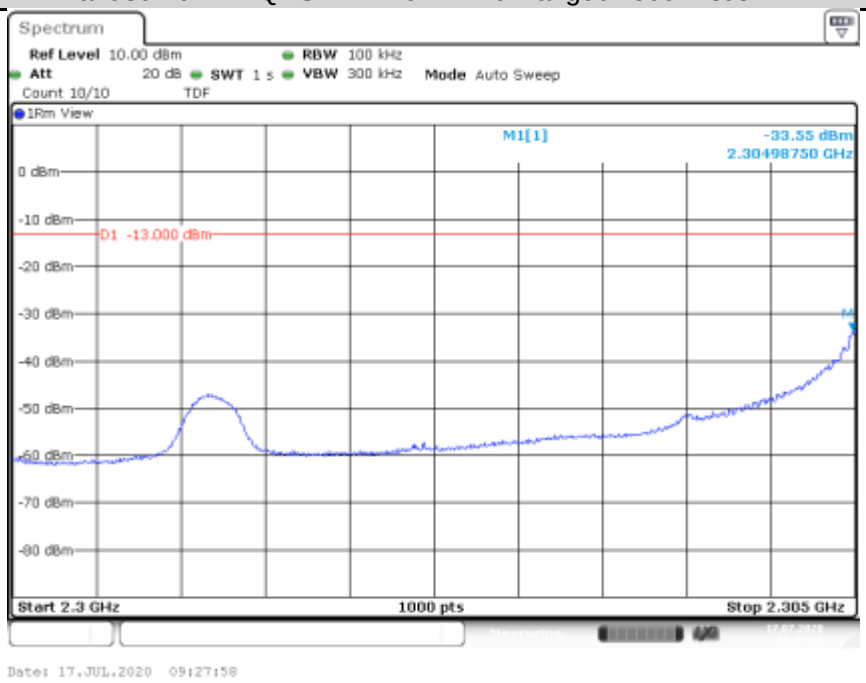
Band30-10MHz-QPSK-27710-1RB#0-Range4:2292~2296MHz



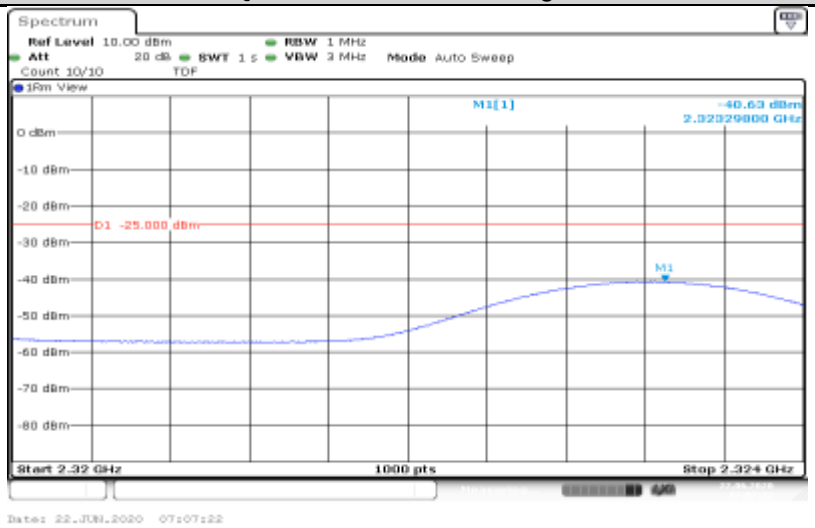
Band30-10MHz-QPSK-27710-1RB#0-Range5:2296~2300MHz



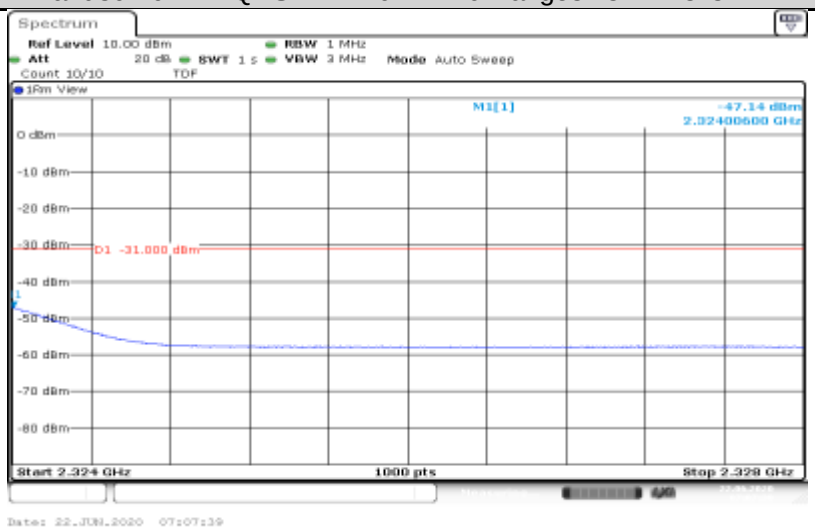
Band30-10MHz-QPSK-27710-1RB#0-Range6:2300~2305MHz



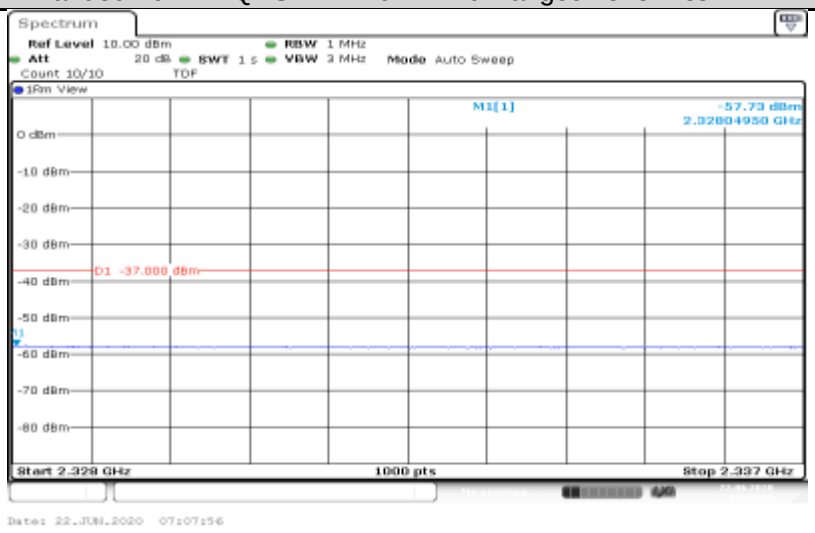
Band30-10MHz-QPSK-27710-1RB#0-Range7:2320~2324MHz



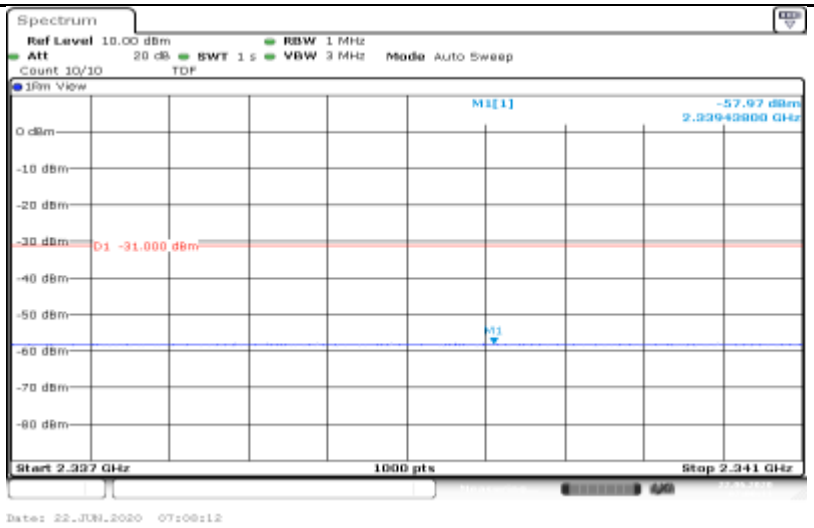
Band30-10MHz-QPSK-27710-1RB#0-Range8:2324~2328MHz



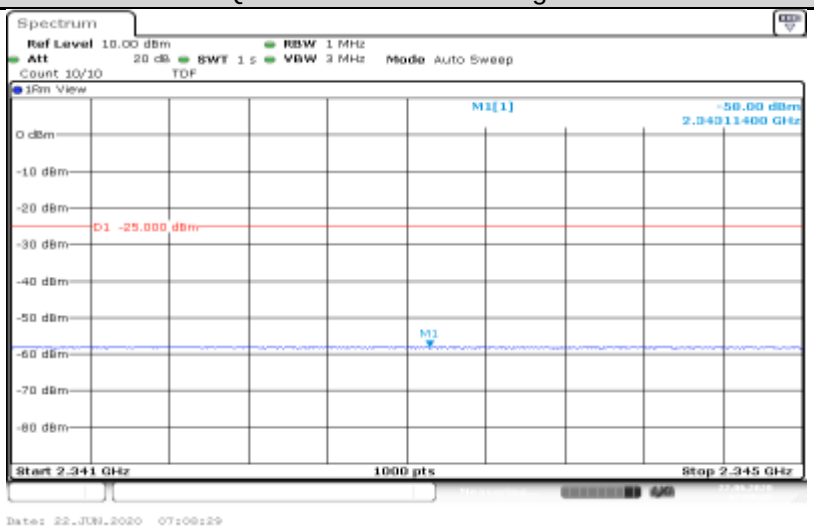
Band30-10MHz-QPSK-27710-1RB#0-Range9:2328~2337MHz



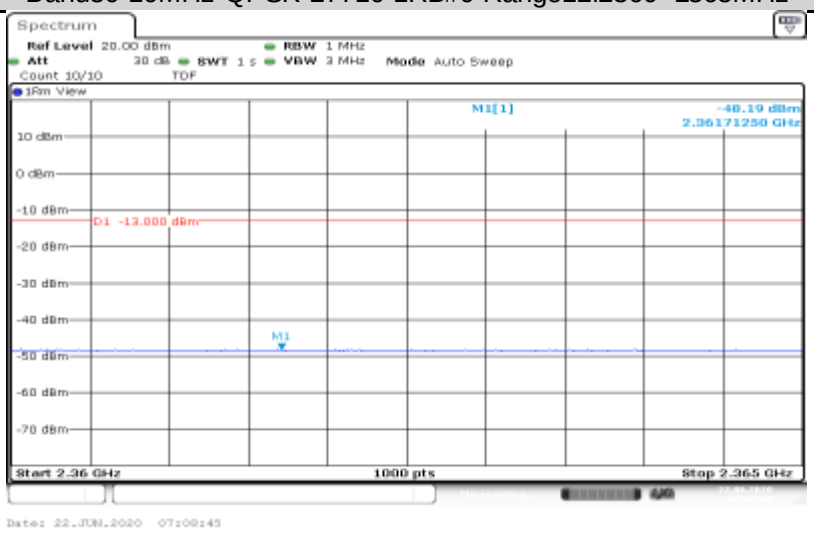
Band30-10MHz-QPSK-27710-1RB#0-Range10:2337~2341MHz



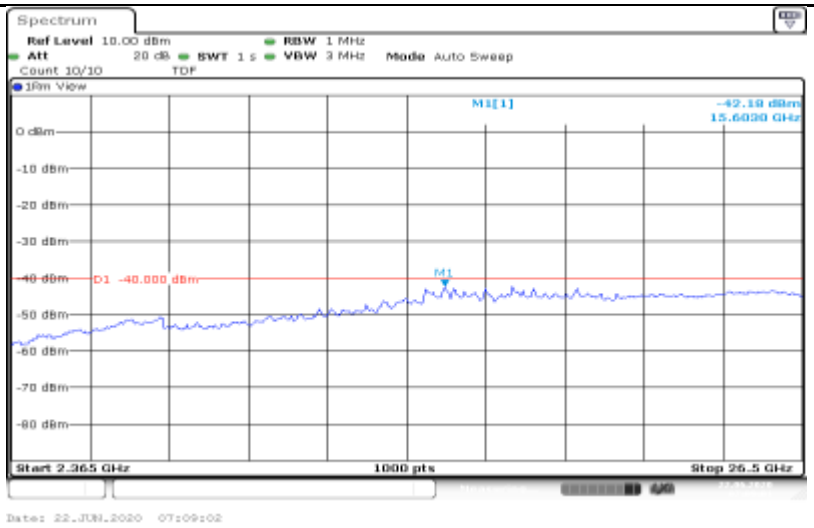
Band30-10MHz-QPSK-27710-1RB#0-Range11:2341~2345MHz



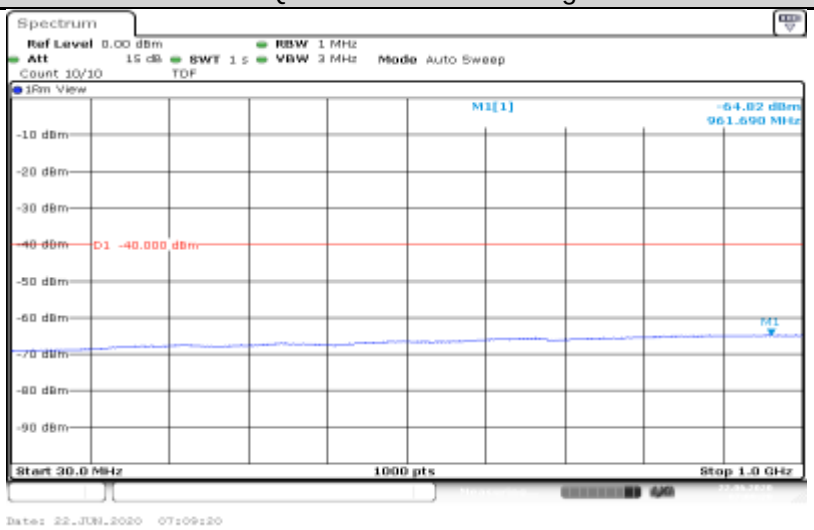
Band30-10MHz-QPSK-27710-1RB#0-Range12:2360~2365MHz



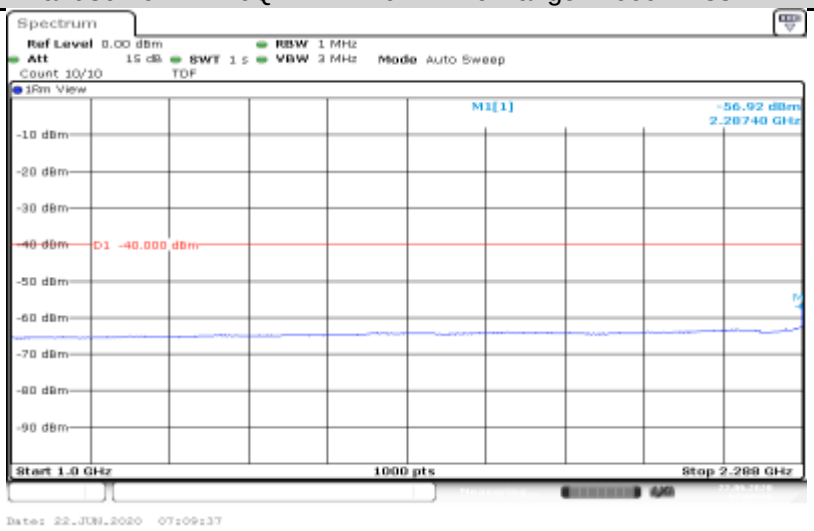
Band30-10MHz-QPSK-27710-1RB#0-Range13:2365~26500MHz



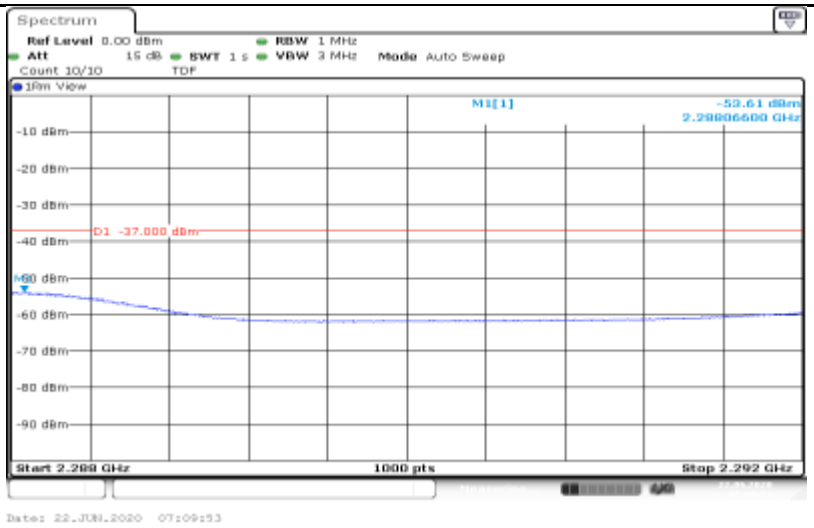
Band30-10MHz-16QAM-27710-1RB#0-Range1:30~1000MHz



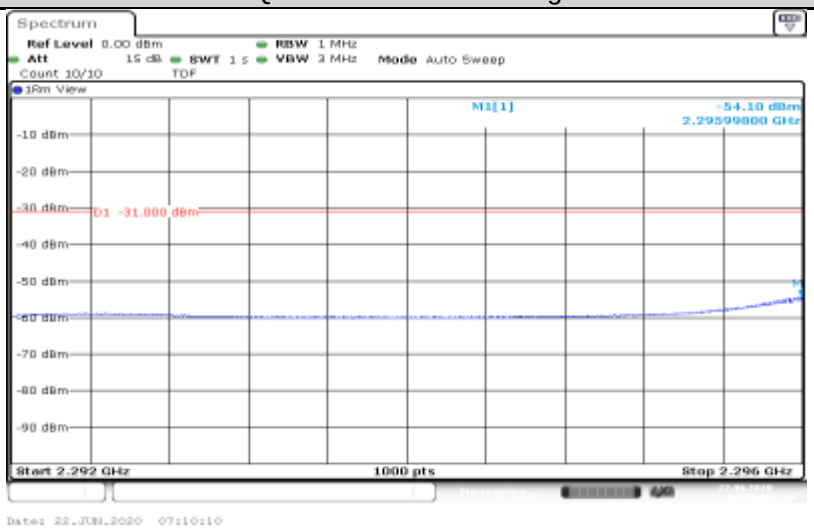
Band30-10MHz-16QAM-27710-1RB#0-Range2:1000~2288MHz



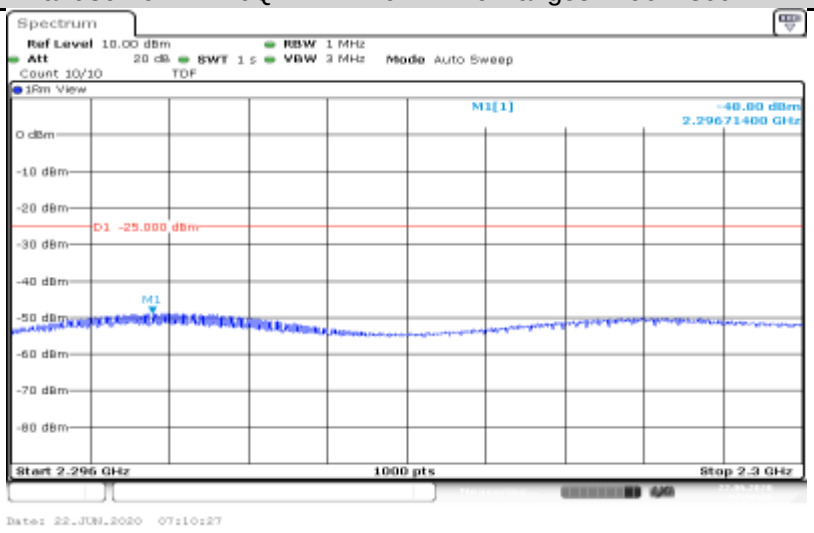
Band30-10MHz-16QAM-27710-1RB#0-Range3:2288~2292MHz



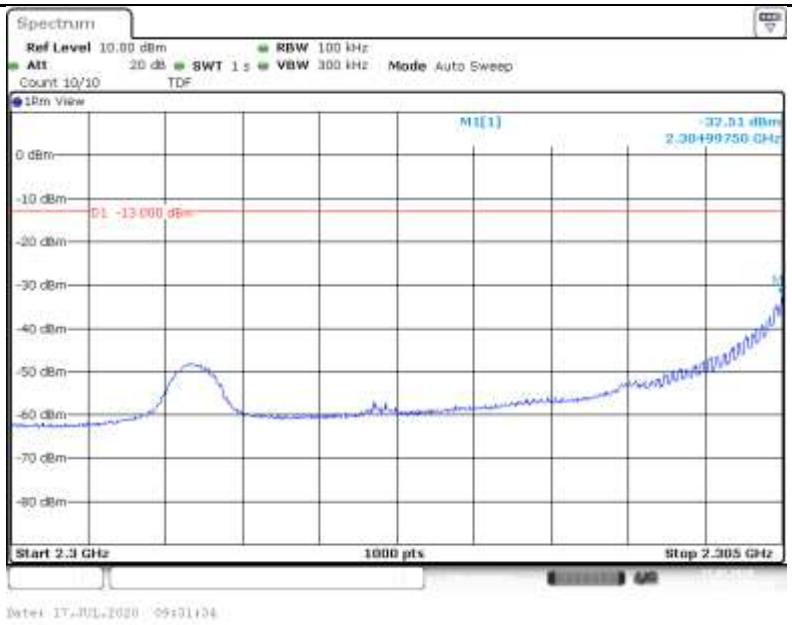
Band30-10MHz-16QAM-27710-1RB#0-Range4:2292~2296MHz



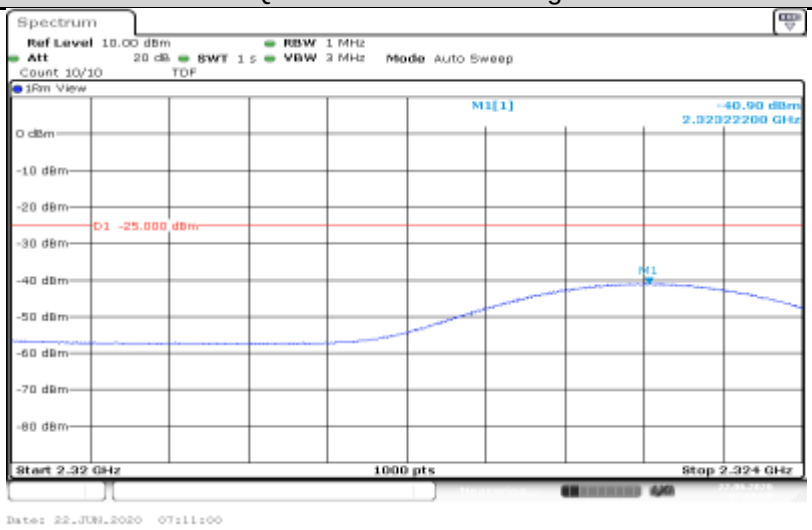
Band30-10MHz-16QAM-27710-1RB#0-Range5:2296~2300MHz



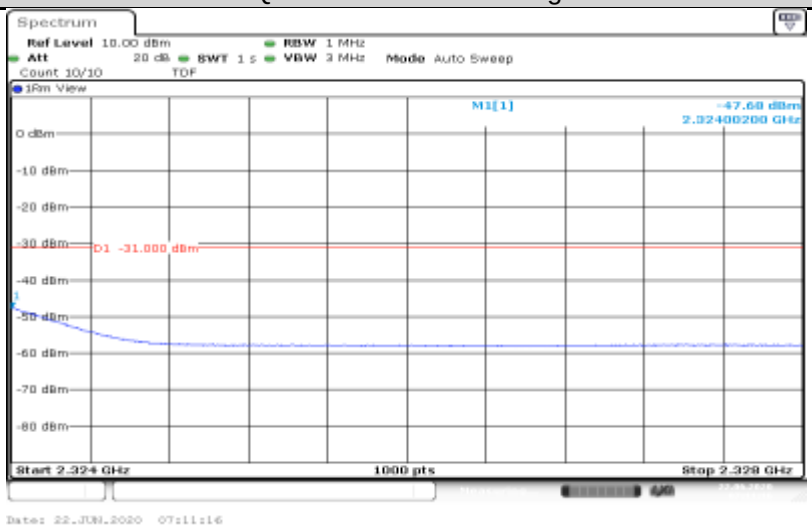
Band30-10MHz-16QAM-27710-1RB#0-Range6:2300~2305MHz



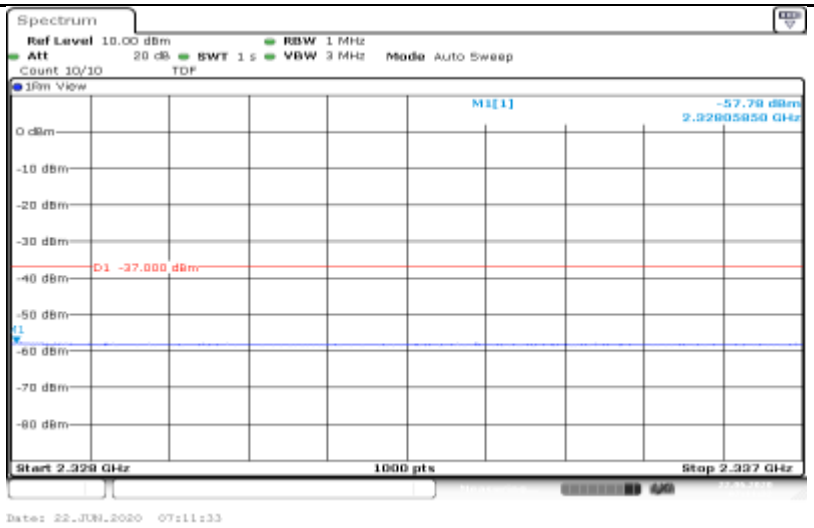
Band30-10MHz-16QAM-27710-1RB#0-Range7:2320~2324MHz



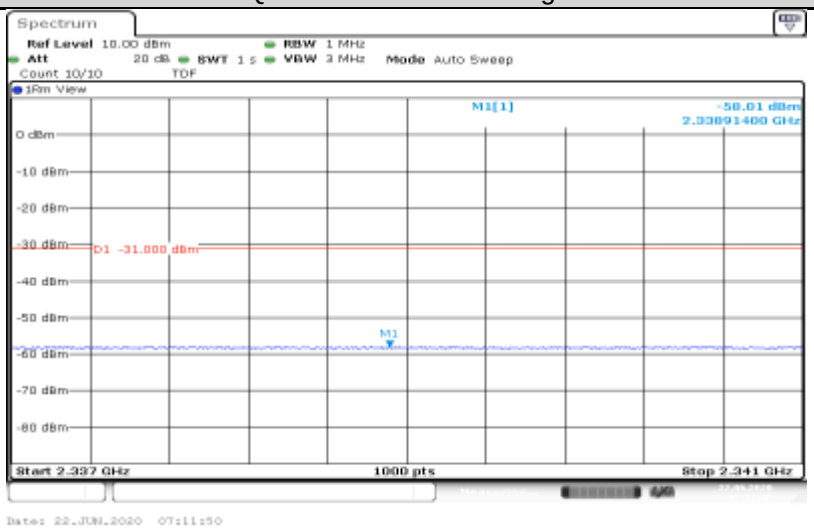
Band30-10MHz-16QAM-27710-1RB#0-Range8:2324~2328MHz



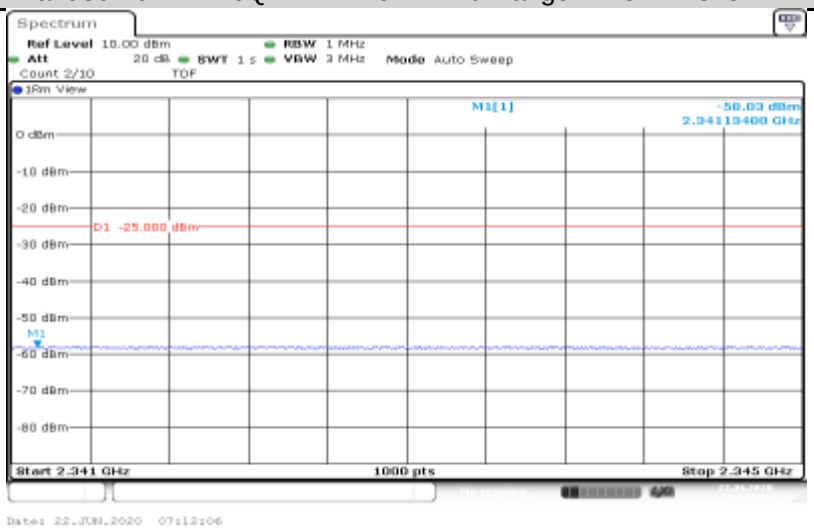
Band30-10MHz-16QAM-27710-1RB#0-Range9:2328~2337MHz



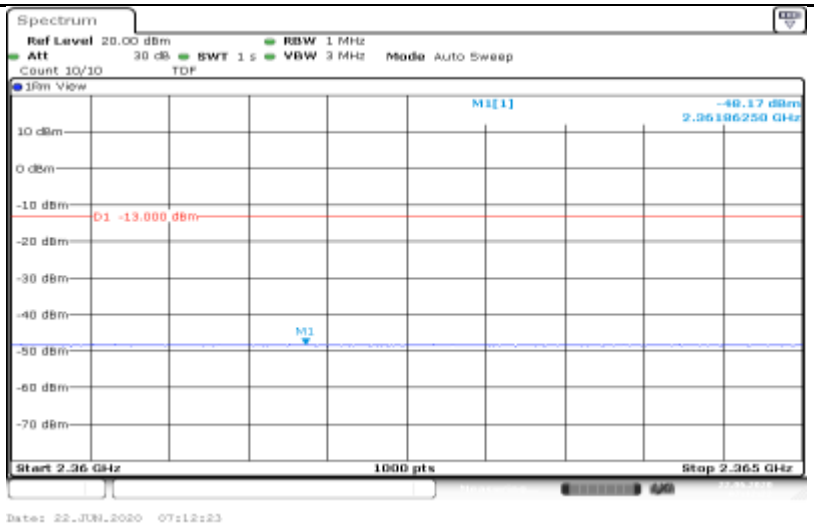
Band30-10MHz-16QAM-27710-1RB#0-Range10:2337~2341MHz



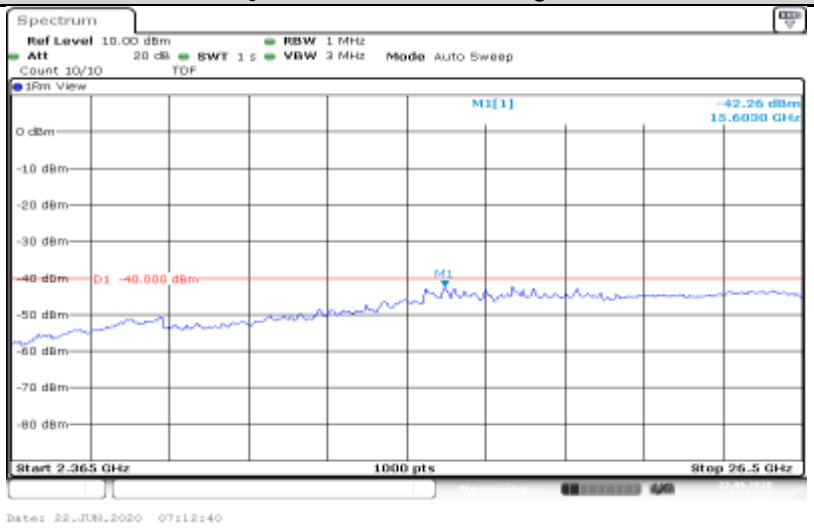
Band30-10MHz-16QAM-27710-1RB#0-Range11:2341~2345MHz



Band30-10MHz-16QAM-27710-1RB#0-Range12:2360~2365MHz



Band30-10MHz-16QAM-27710-1RB#0-Range13:2365~26500MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	10MHz	QPSK	27710	100RB#0	VL	NT	-5.24	-0.002268	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	VN	NT	-11.22	-0.004857	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	VH	NT	2.66	0.001152	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	VL	NT	-12.75	-0.005519	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	VN	NT	-10.76	-0.004658	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	VH	NT	-16.67	-0.007216	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	10MHz	QPSK	27710	100RB#0	NV	-30	-8.85	-0.003831	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	-20	4.41	0.001909	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	0	-10.91	-0.004723	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	10	-12.57	-0.005442	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	20	4.49	0.001944	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	30	-6.61	-0.002861	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	40	-10.64	-0.004606	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	50	-13.32	-0.005766	±2.5	PASS
Band30	10MHz	QPSK	27710	100RB#0	NV	55	-14.85	-0.006429	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	-30	-7.52	-0.003255	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	-20	8.97	0.003883	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	0	-5.35	-0.002316	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	10	-12.10	-0.005238	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	20	-15.79	-0.006835	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	30	4.89	0.002117	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	40	-7.85	-0.003398	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	50	-12.92	-0.005593	±2.5	PASS
Band30	10MHz	16QAM	27710	100RB#0	NV	55	-19.50	-0.008442	±2.5	PASS

Appendix O: Test Results of LTE Band 38 operation

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6. FREQUENCY STABILITY 38

6.1 Test Result 38

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.89	PASS
Band38	5MHz	QPSK	37775	1RB#12	23.03	PASS
Band38	5MHz	QPSK	37775	1RB#24	23.01	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.89	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.86	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.90	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.91	PASS
Band38	5MHz	QPSK	38000	1RB#0	23.43	PASS
Band38	5MHz	QPSK	38000	1RB#24	23.36	PASS
Band38	5MHz	QPSK	38000	1RB#12	23.47	PASS
Band38	5MHz	QPSK	38000	12RB#0	22.39	PASS
Band38	5MHz	QPSK	38000	12RB#6	22.41	PASS
Band38	5MHz	QPSK	38000	12RB#13	22.43	PASS
Band38	5MHz	QPSK	38000	25RB#0	22.37	PASS
Band38	5MHz	QPSK	38225	1RB#24	23.84	PASS
Band38	5MHz	QPSK	38225	1RB#0	23.77	PASS
Band38	5MHz	QPSK	38225	1RB#12	23.88	PASS
Band38	5MHz	QPSK	38225	12RB#0	22.70	PASS
Band38	5MHz	QPSK	38225	12RB#6	22.76	PASS
Band38	5MHz	QPSK	38225	12RB#13	22.75	PASS
Band38	5MHz	QPSK	38225	25RB#0	22.76	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.73	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.96	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.90	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.99	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.94	PASS
Band38	5MHz	16QAM	37775	12RB#13	21.04	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.01	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.41	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.45	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.39	PASS
Band38	5MHz	16QAM	38000	12RB#13	21.50	PASS

Band38	5MHz	16QAM	38000	12RB#0	21.46	PASS
Band38	5MHz	16QAM	38000	12RB#6	21.38	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.46	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.91	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.81	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.91	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.91	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.90	PASS
Band38	5MHz	16QAM	38225	12RB#13	21.95	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.84	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.86	PASS
Band38	10MHz	QPSK	37800	1RB#49	23.08	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.78	PASS
Band38	10MHz	QPSK	37800	25RB#0	21.94	PASS
Band38	10MHz	QPSK	37800	25RB#12	21.94	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.07	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.05	PASS
Band38	10MHz	QPSK	38000	1RB#0	23.21	PASS
Band38	10MHz	QPSK	38000	1RB#49	23.45	PASS
Band38	10MHz	QPSK	38000	1RB#24	23.30	PASS
Band38	10MHz	QPSK	38000	25RB#25	22.40	PASS
Band38	10MHz	QPSK	38000	25RB#0	22.39	PASS
Band38	10MHz	QPSK	38000	25RB#12	22.39	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.43	PASS
Band38	10MHz	QPSK	38200	1RB#24	23.67	PASS
Band38	10MHz	QPSK	38200	1RB#0	23.60	PASS
Band38	10MHz	QPSK	38200	1RB#49	23.92	PASS
Band38	10MHz	QPSK	38200	25RB#0	22.64	PASS
Band38	10MHz	QPSK	38200	25RB#25	22.72	PASS
Band38	10MHz	QPSK	38200	25RB#12	22.63	PASS
Band38	10MHz	QPSK	38200	50RB#0	22.66	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.14	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.81	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.95	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.06	PASS
Band38	10MHz	16QAM	37800	25RB#12	20.95	PASS
Band38	10MHz	16QAM	37800	25RB#0	20.93	PASS

Band38	10MHz	16QAM	37800	50RB#0	21.07	PASS
Band38	10MHz	16QAM	38000	1RB#49	22.52	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.29	PASS
Band38	10MHz	16QAM	38000	1RB#24	22.35	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.42	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.44	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.44	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.50	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.52	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.45	PASS
Band38	10MHz	16QAM	38200	1RB#49	22.64	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.74	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.72	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.81	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.77	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.79	PASS
Band38	15MHz	QPSK	37825	1RB#38	23.03	PASS
Band38	15MHz	QPSK	37825	1RB#74	23.32	PASS
Band38	15MHz	QPSK	37825	36RB#0	21.97	PASS
Band38	15MHz	QPSK	37825	36RB#18	21.97	PASS
Band38	15MHz	QPSK	37825	36RB#39	22.23	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.08	PASS
Band38	15MHz	QPSK	38000	1RB#0	23.29	PASS
Band38	15MHz	QPSK	38000	1RB#74	23.47	PASS
Band38	15MHz	QPSK	38000	1RB#38	23.40	PASS
Band38	15MHz	QPSK	38000	36RB#0	22.47	PASS
Band38	15MHz	QPSK	38000	36RB#18	22.48	PASS
Band38	15MHz	QPSK	38000	36RB#39	22.44	PASS
Band38	15MHz	QPSK	38000	75RB#0	22.43	PASS
Band38	15MHz	QPSK	38175	1RB#74	23.80	PASS
Band38	15MHz	QPSK	38175	1RB#0	23.37	PASS
Band38	15MHz	QPSK	38175	1RB#38	23.57	PASS
Band38	15MHz	QPSK	38175	36RB#0	22.57	PASS
Band38	15MHz	QPSK	38175	36RB#18	22.53	PASS
Band38	15MHz	QPSK	38175	36RB#39	22.75	PASS
Band38	15MHz	QPSK	38175	75RB#0	22.69	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.84	PASS

Band38	15MHz	16QAM	37825	1RB#38	22.06	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.33	PASS
Band38	15MHz	16QAM	37825	36RB#18	21.01	PASS
Band38	15MHz	16QAM	37825	36RB#0	21.01	PASS
Band38	15MHz	16QAM	37825	36RB#39	21.27	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.15	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.32	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.38	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.54	PASS
Band38	15MHz	16QAM	38000	36RB#39	21.52	PASS
Band38	15MHz	16QAM	38000	36RB#0	21.50	PASS
Band38	15MHz	16QAM	38000	36RB#18	21.50	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.50	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.72	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.52	PASS
Band38	15MHz	16QAM	38175	1RB#74	22.92	PASS
Band38	15MHz	16QAM	38175	36RB#0	21.68	PASS
Band38	15MHz	16QAM	38175	36RB#18	21.68	PASS
Band38	15MHz	16QAM	38175	36RB#39	21.86	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.84	PASS
Band38	20MHz	QPSK	37850	1RB#99	23.40	PASS
Band38	20MHz	QPSK	37850	1RB#49	23.17	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.79	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.00	PASS
Band38	20MHz	QPSK	37850	50RB#25	22.02	PASS
Band38	20MHz	QPSK	37850	50RB#50	22.30	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.15	PASS
Band38	20MHz	QPSK	38000	1RB#0	23.23	PASS
Band38	20MHz	QPSK	38000	1RB#99	23.55	PASS
Band38	20MHz	QPSK	38000	1RB#49	23.44	PASS
Band38	20MHz	QPSK	38000	50RB#50	22.47	PASS
Band38	20MHz	QPSK	38000	50RB#0	22.48	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.49	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.42	PASS
Band38	20MHz	QPSK	38150	1RB#49	23.51	PASS
Band38	20MHz	QPSK	38150	1RB#0	23.39	PASS
Band38	20MHz	QPSK	38150	1RB#99	23.80	PASS

Band38	20MHz	QPSK	38150	50RB#0	22.51	PASS
Band38	20MHz	QPSK	38150	50RB#50	22.72	PASS
Band38	20MHz	QPSK	38150	50RB#25	22.51	PASS
Band38	20MHz	QPSK	38150	100RB#0	22.60	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.28	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.72	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.08	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.38	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.04	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.04	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.20	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.67	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.34	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.59	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.51	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.57	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.53	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.53	PASS
Band38	20MHz	16QAM	38150	1RB#49	22.42	PASS
Band38	20MHz	16QAM	38150	1RB#0	22.26	PASS
Band38	20MHz	16QAM	38150	1RB#99	22.65	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.65	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.64	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.86	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.62	PASS

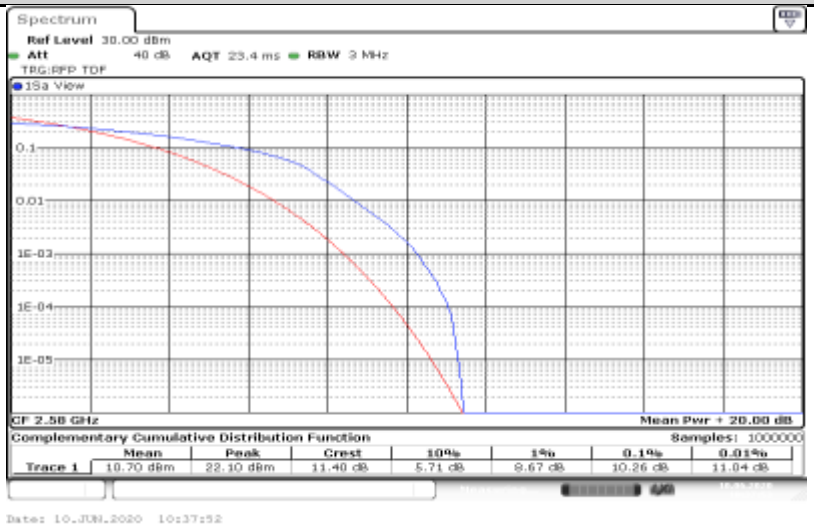
2. Peak-to-Average Ratio（CCDF）

2.1 Test Result

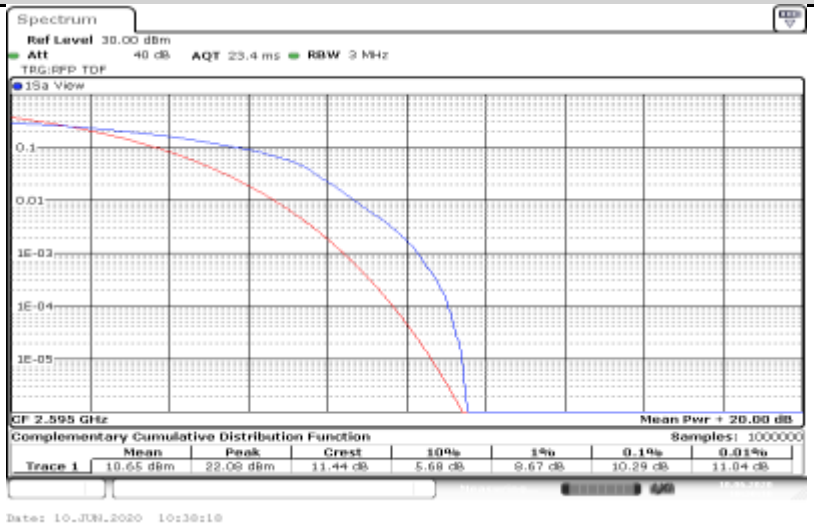
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	10.26	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	10.29	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	10.64	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	10.52	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	10.55	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	10.64	13	PASS

2.2 Test Graphs

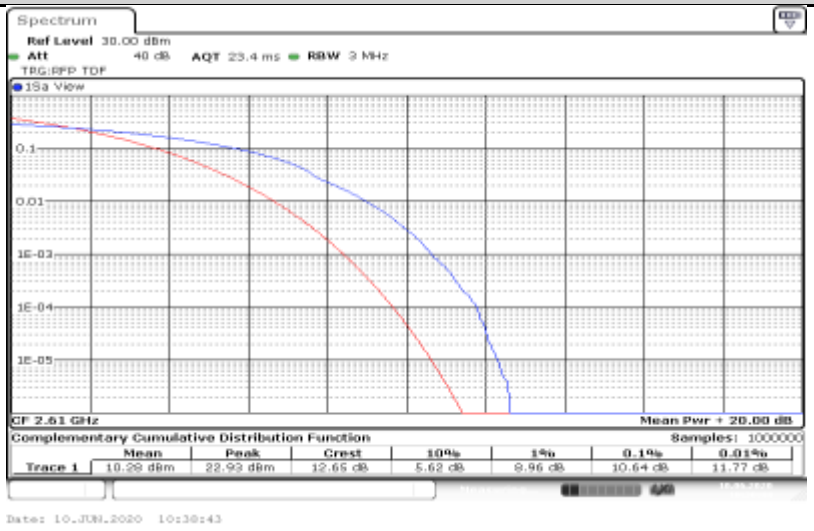
Band38-20MHz-QPSK-37850-100RB#0



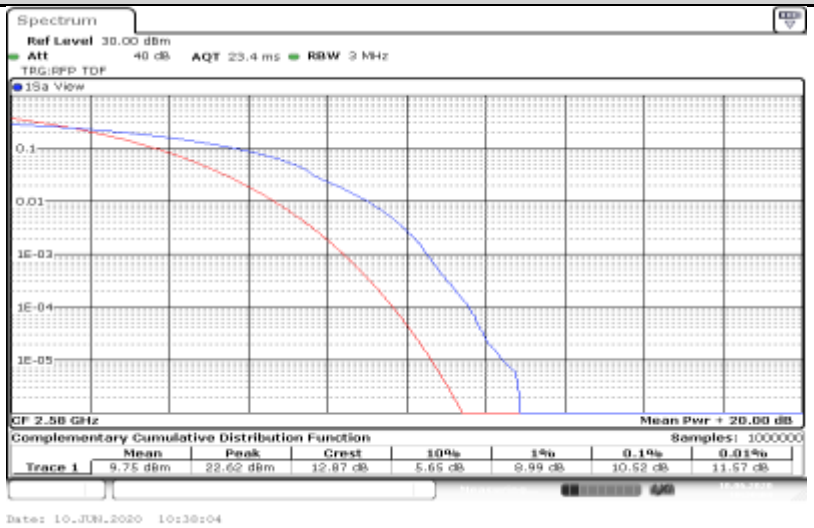
Band38-20MHz-QPSK-38000-100RB#0



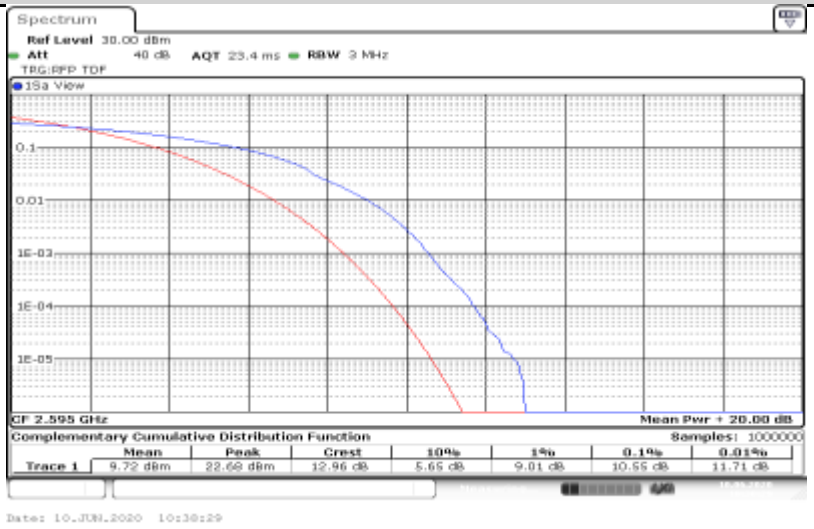
Band38-20MHz-QPSK-38150-100RB#0



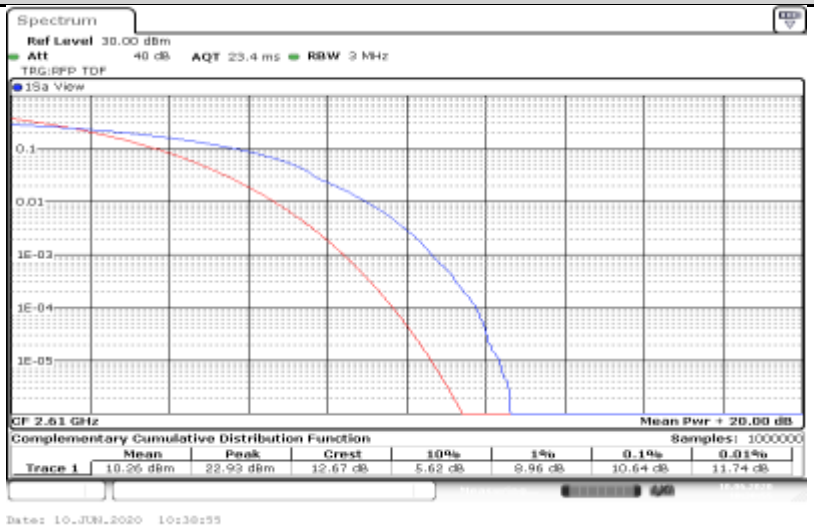
Band38-20MHz-16QAM-37850-100RB#0



Band38-20MHz-16QAM-38000-100RB#0



Band38-20MHz-16QAM-38150-100RB#0



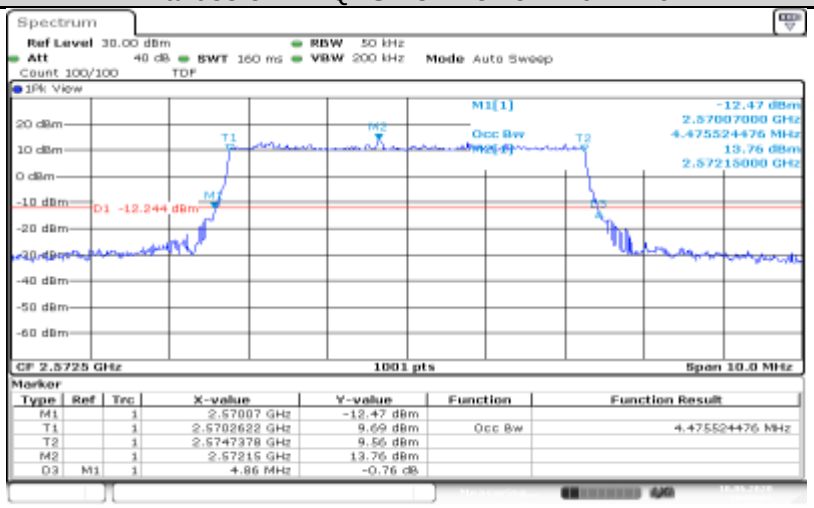
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

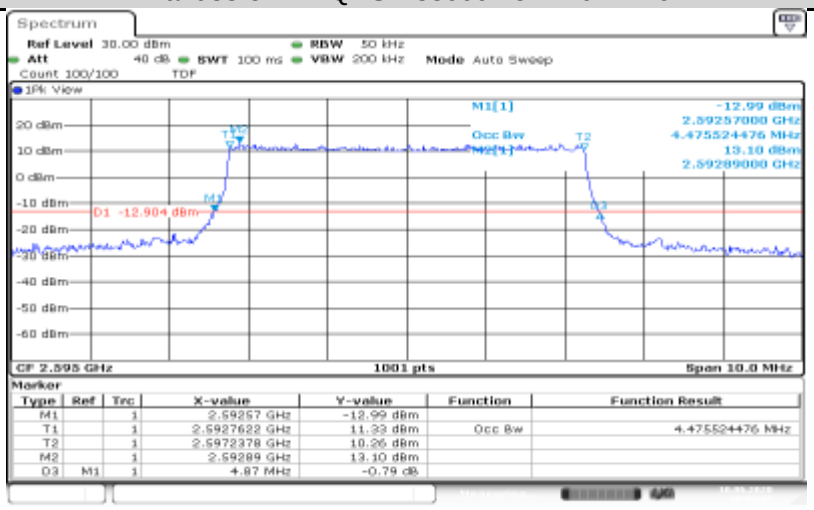
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.476	4.860	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.476	4.870	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.476	4.920	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.466	4.880	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.476	4.870	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.466	4.860	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.952	9.667	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.952	9.700	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.918	9.667	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.918	9.600	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.952	9.633	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.918	9.700	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.478	14.900	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.428	14.750	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.478	14.750	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.428	14.800	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.428	14.750	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.527	14.850	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.903	19.333	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.903	19.333	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.837	19.267	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.903	19.533	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.903	19.467	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.837	19.400	PASS

3.2 Test Graphs

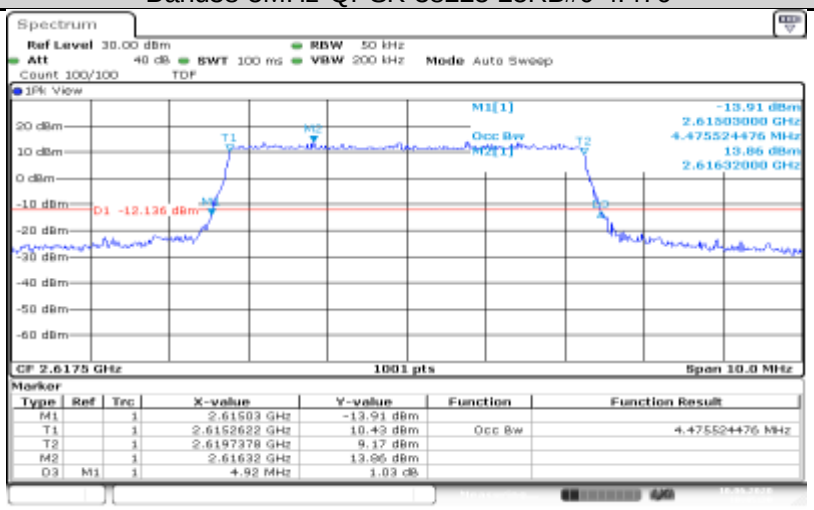
Band38-5MHz-QPSK-37775-25RB#0-4.476



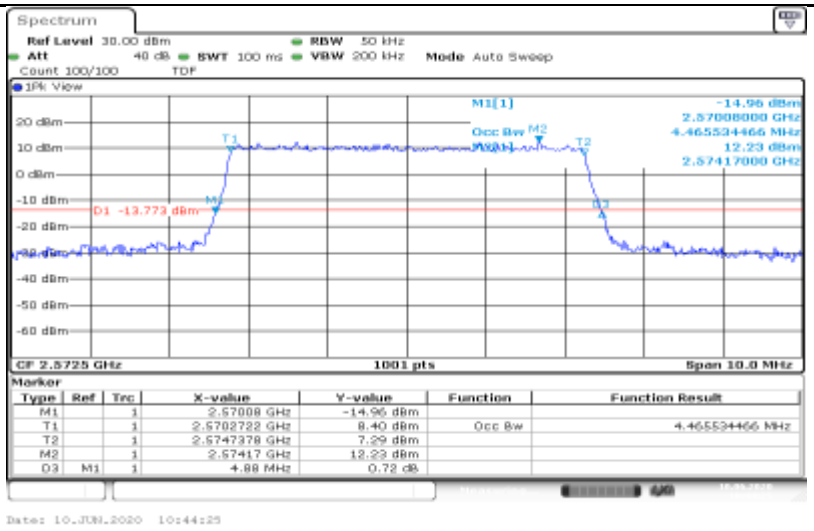
Band38-5MHz-QPSK-38000-25RB#0-4.476



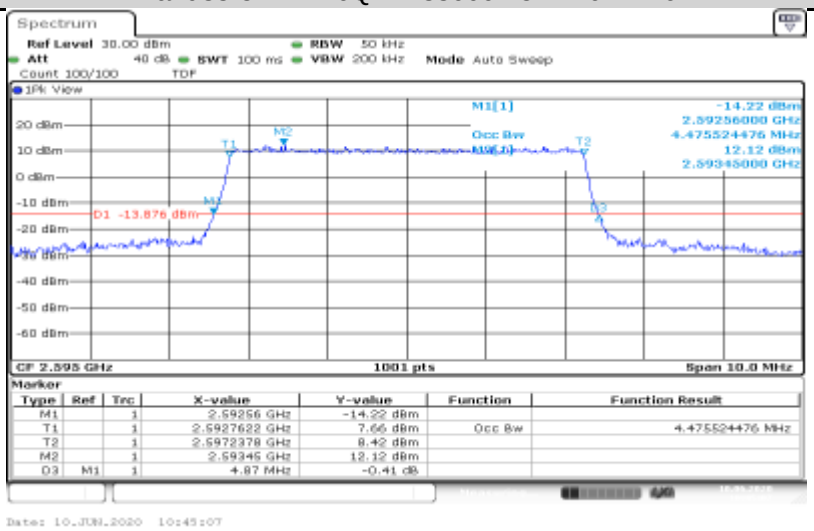
Band38-5MHz-QPSK-38225-25RB#0-4.476



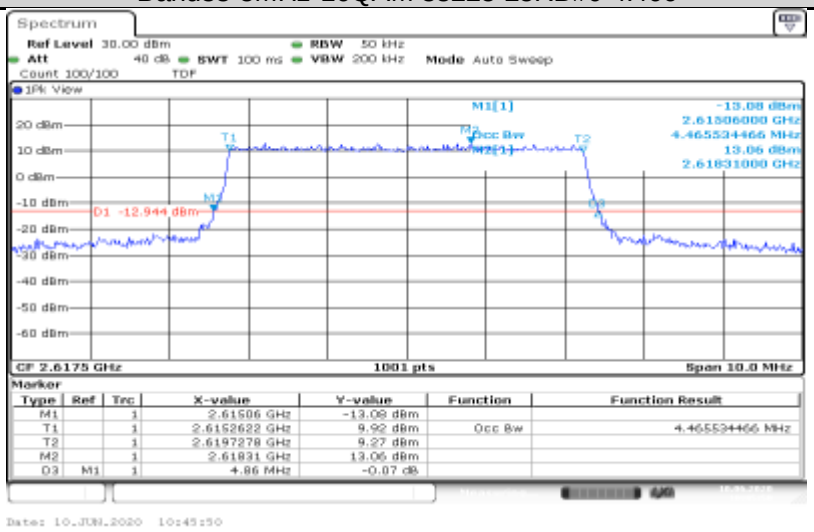
Band38-5MHz-16QAM-37775-25RB#0-4.466



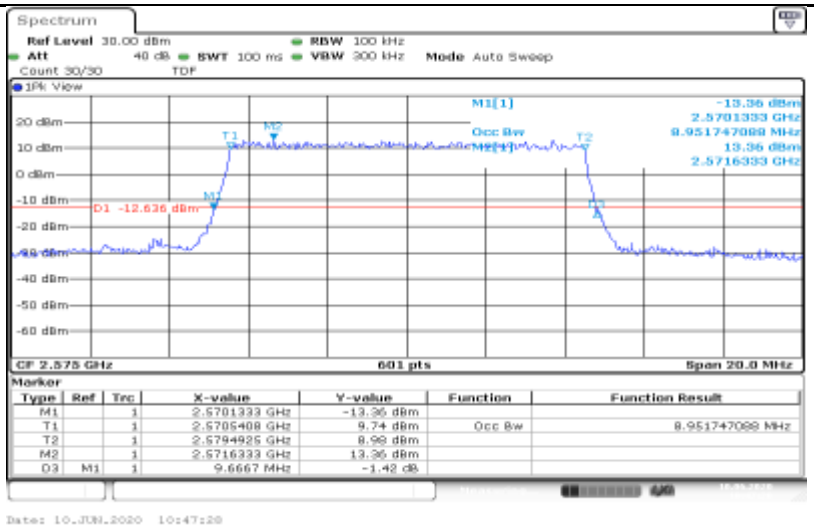
Band38-5MHz-16QAM-38000-25RB#0-4.476



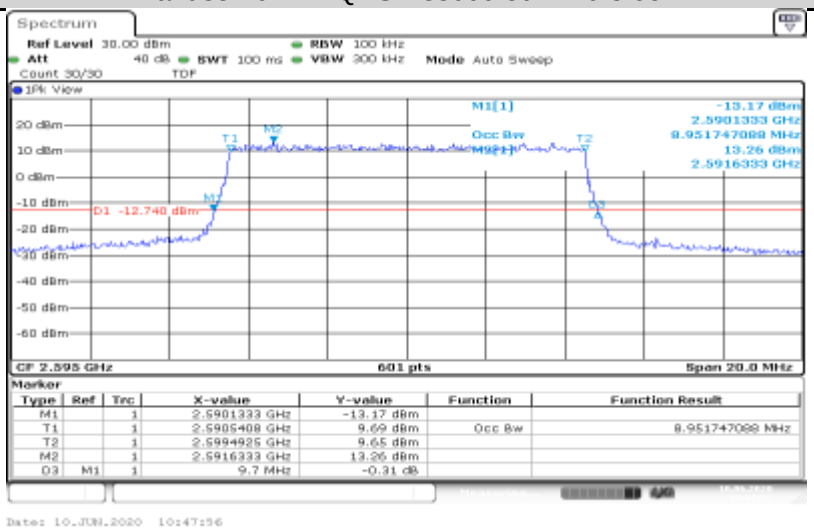
Band38-5MHz-16QAM-38225-25RB#0-4.466



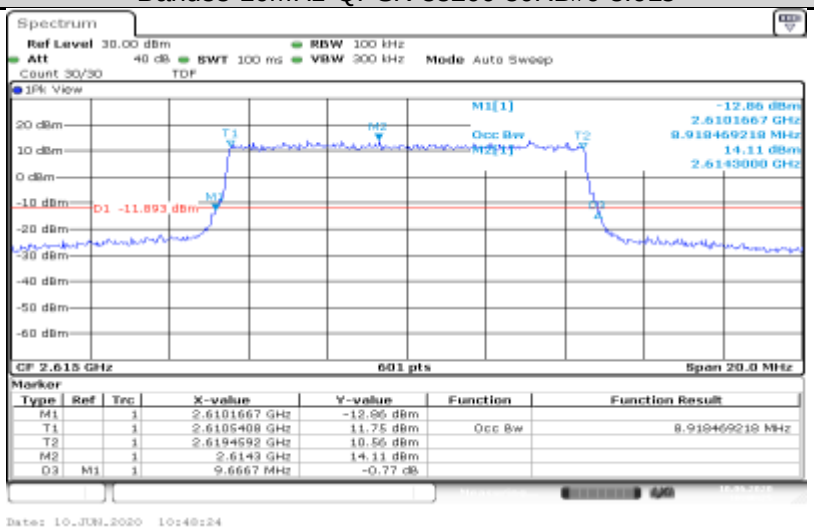
Band38-10MHz-QPSK-37800-50RB#0-8.952



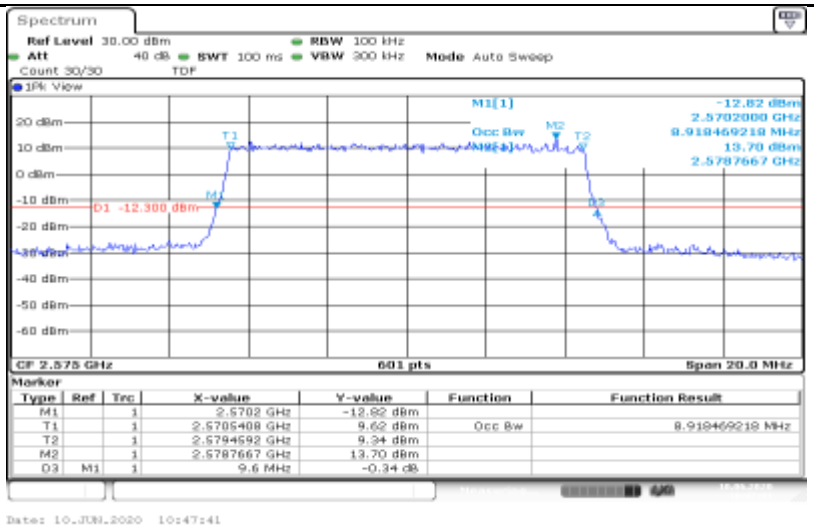
Band38-10MHz-QPSK-38000-50RB#0-8.952



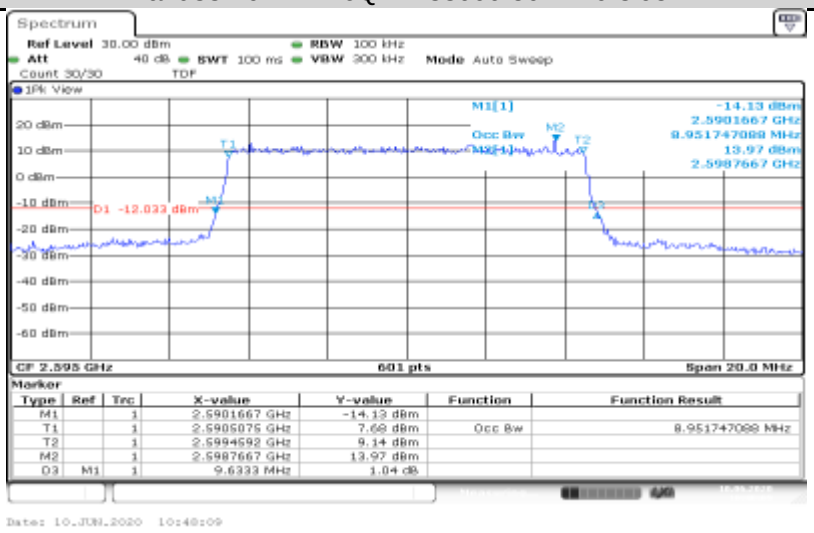
Band38-10MHz-QPSK-38200-50RB#0-8.918



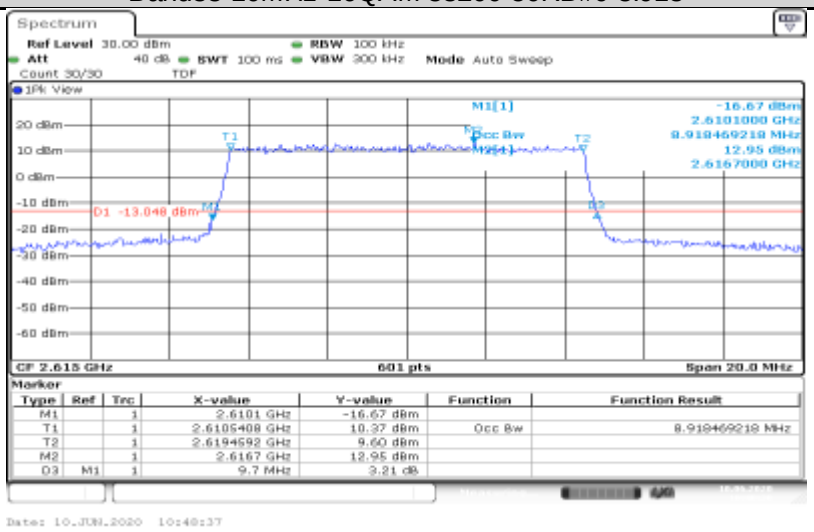
Band38-10MHz-16QAM-37800-50RB#0-8.918



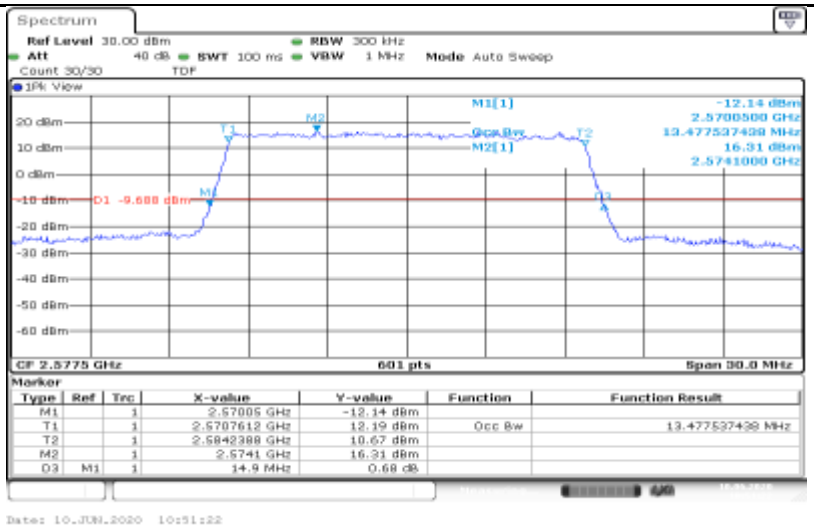
Band38-10MHz-16QAM-38000-50RB#0-8.952



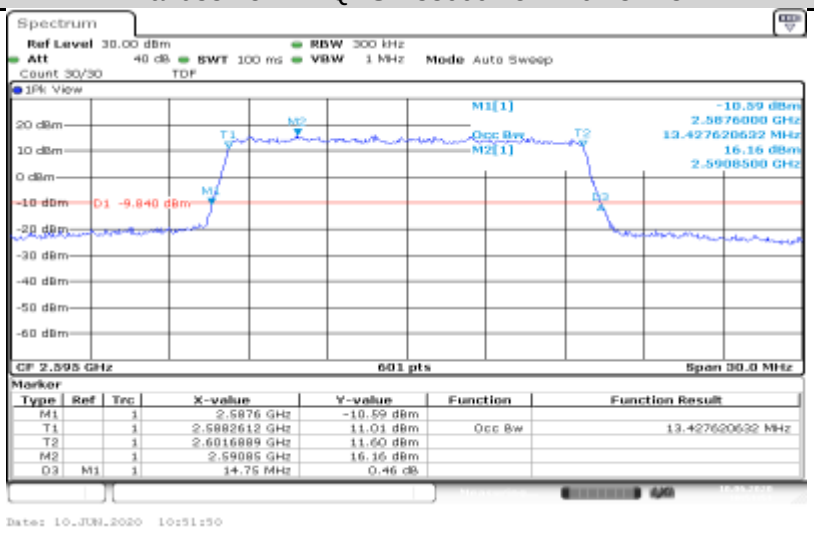
Band38-10MHz-16QAM-38200-50RB#0-8.918



Band38-15MHz-QPSK-37825-75RB#0-13.478

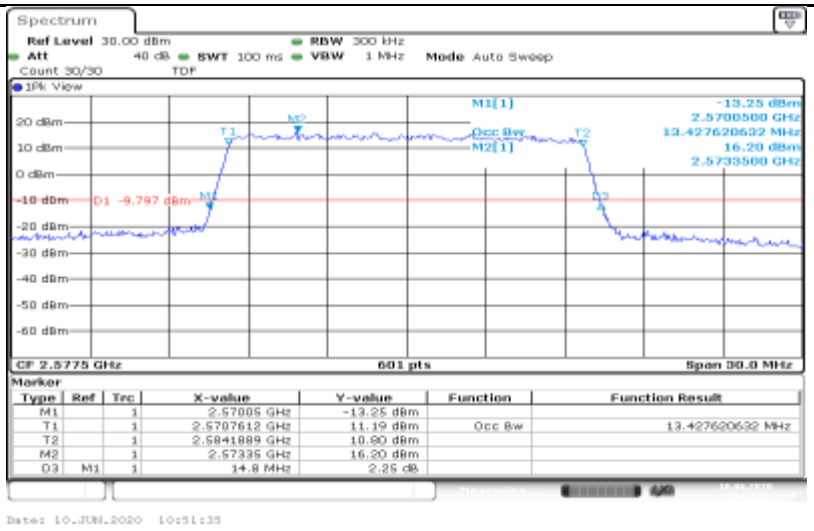


Band38-15MHz-QPSK-38000-75RB#0-13.428

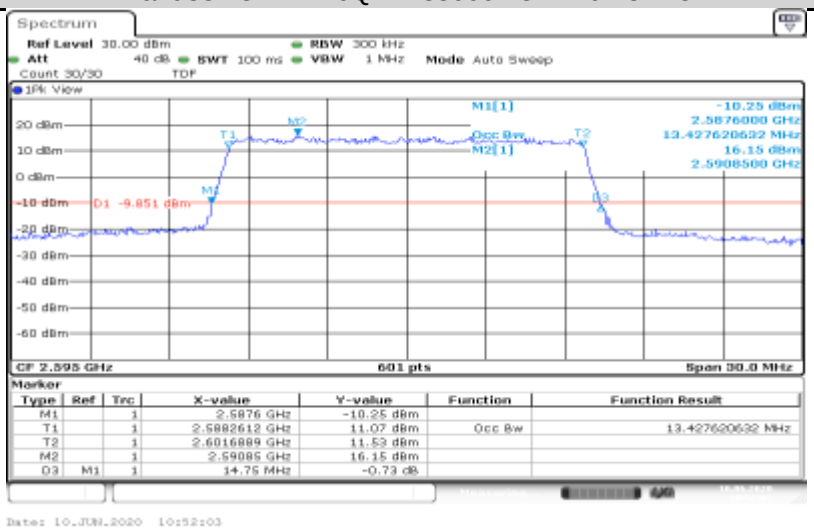


Band38-15MHz-QPSK-38175-75RB#0-13.478

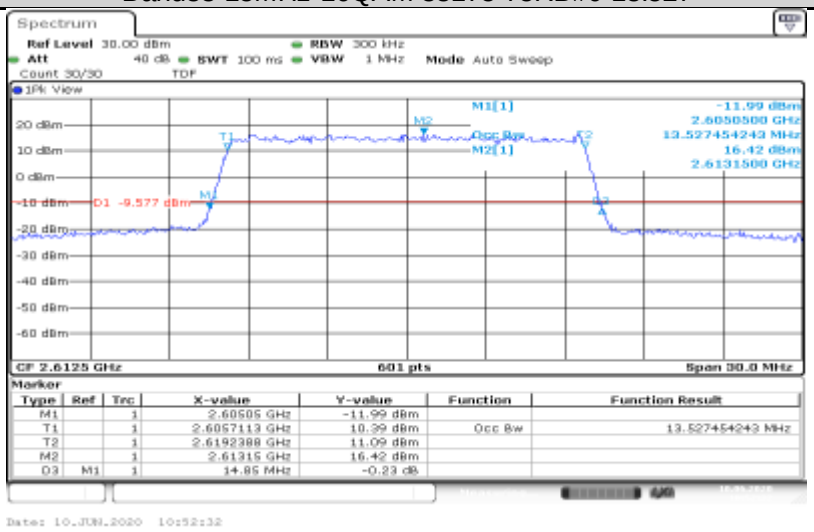
Band38-15MHz-16QAM-37825-75RB#0-13.428



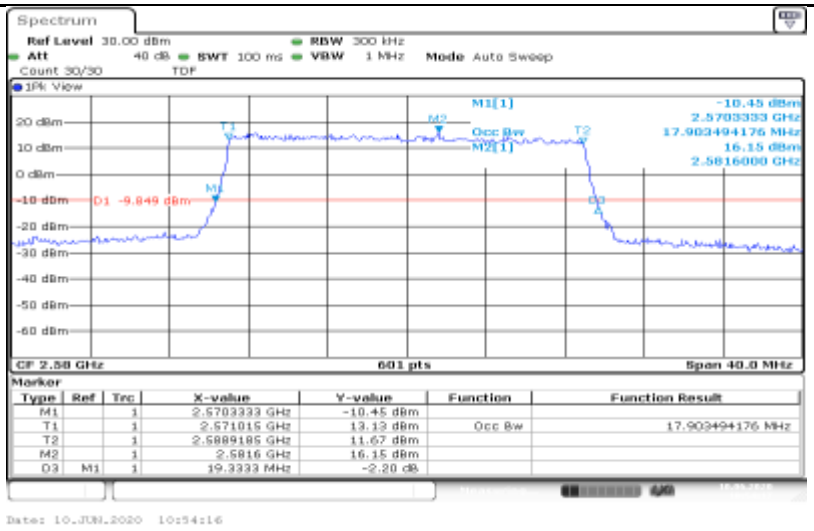
Band38-15MHz-16QAM-38000-75RB#0-13.428



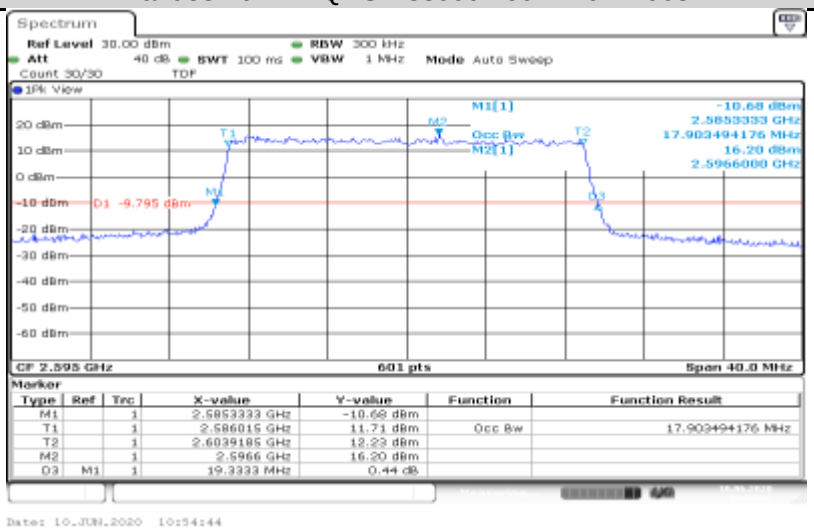
Band38-15MHz-16QAM-38175-75RB#0-13.527



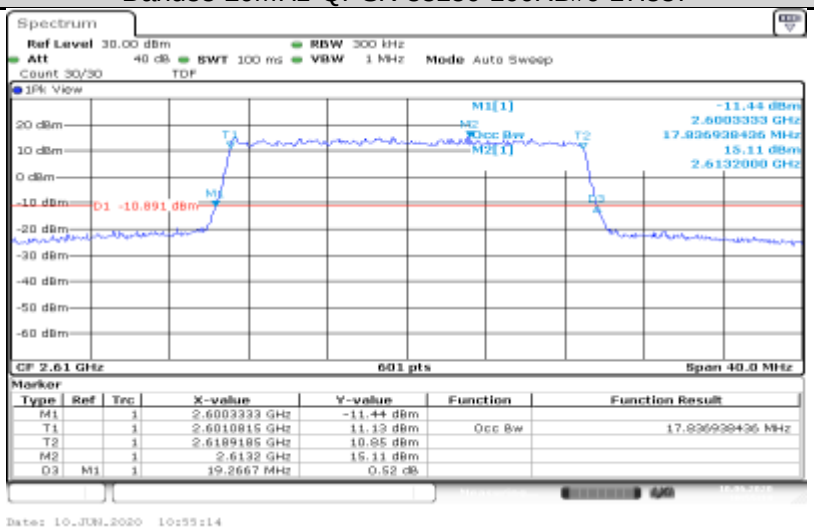
Band38-20MHz-QPSK-37850-100RB#0-17.903



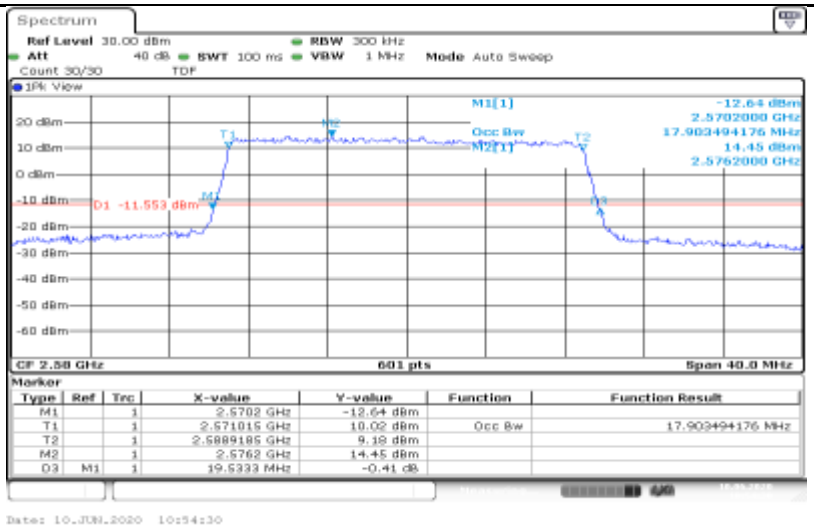
Band38-20MHz-QPSK-38000-100RB#0-17.903



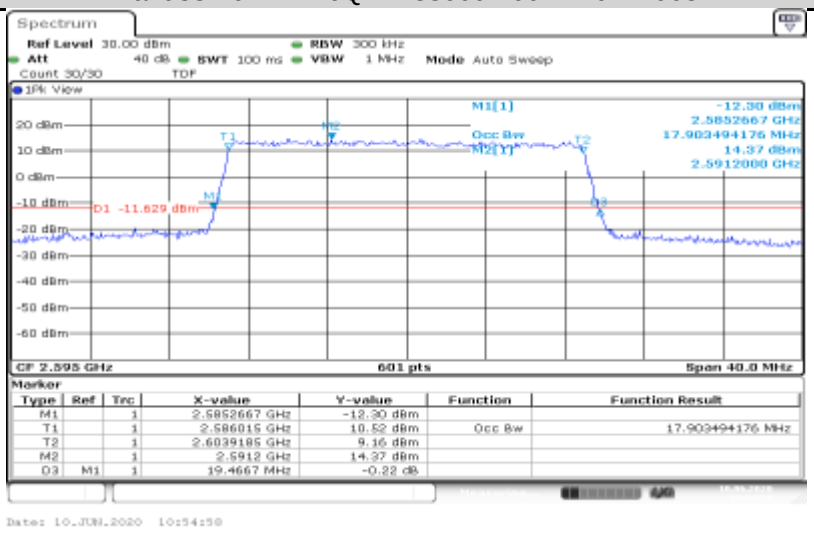
Band38-20MHz-QPSK-38150-100RB#0-17.837



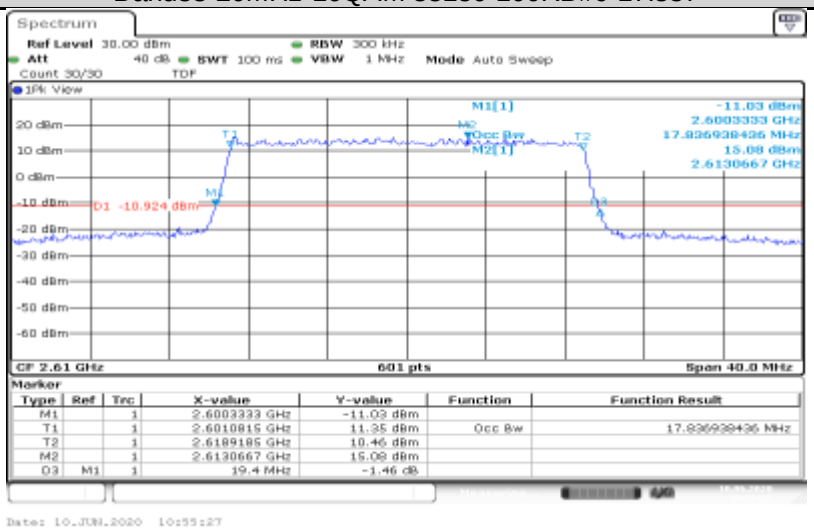
Band38-20MHz-16QAM-37850-100RB#0-17.903



Band38-20MHz-16QAM-38000-100RB#0-17.903



Band38-20MHz-16QAM-38150-100RB#0-17.837



4. Band Edge

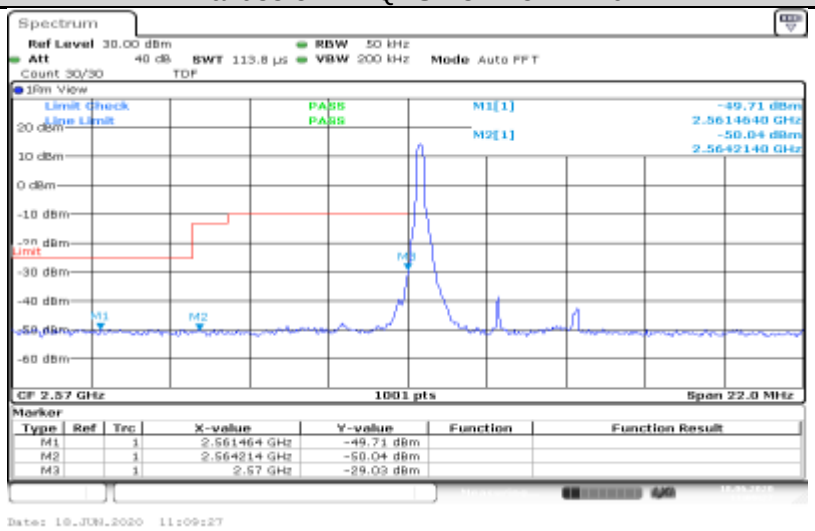
4.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	-49.71,-50.04,-29.03	PASS
Band38	5MHz	QPSK	37775	25RB#0	-47.59,-47.00,-31.89	PASS
Band38	5MHz	QPSK	38225	1RB#24	-49.09,-49.53,-25.88	PASS
Band38	5MHz	QPSK	38225	25RB#0	-46.63,-46.88,-32.98	PASS
Band38	5MHz	16QAM	37775	1RB#0	-48.72,-49.78,-29.72	PASS
Band38	5MHz	16QAM	37775	25RB#0	-48.05,-47.61,-36.63	PASS
Band38	5MHz	16QAM	38225	1RB#24	-49.52,-49.78,-28.13	PASS
Band38	5MHz	16QAM	38225	25RB#0	-46.85,-45.94,-33.37	PASS
Band38	10MHz	QPSK	37800	1RB#0	-46.22,-46.23,-30.92	PASS
Band38	10MHz	QPSK	37800	50RB#0	-44.63,-41.65,-33.88	PASS
Band38	10MHz	QPSK	38200	1RB#49	-46.48,-46.03,-37.96	PASS
Band38	10MHz	QPSK	38200	50RB#0	-44.57,-40.85,-33.79	PASS
Band38	10MHz	16QAM	37800	1RB#0	-45.35,-46.43,-37.35	PASS
Band38	10MHz	16QAM	37800	50RB#0	-44.92,-42.21,-39.65	PASS
Band38	10MHz	16QAM	38200	1RB#49	-46.64,-45.79,-38.08	PASS
Band38	10MHz	16QAM	38200	50RB#0	-44.59,-40.45,-35.55	PASS
Band38	15MHz	QPSK	37825	1RB#0	-42.05,-41.74,-29.84	PASS
Band38	15MHz	QPSK	37825	75RB#0	-40.40,-36.85,-28.11	PASS
Band38	15MHz	QPSK	38175	1RB#74	-41.75,-41.92,-36.94	PASS
Band38	15MHz	QPSK	38175	75RB#0	-40.59,-37.07,-30.63	PASS
Band38	15MHz	16QAM	37825	1RB#0	-41.42,-41.29,-27.33	PASS
Band38	15MHz	16QAM	37825	75RB#0	-40.93,-37.28,-32.54	PASS
Band38	15MHz	16QAM	38175	1RB#74	-41.81,-40.58,-30.28	PASS
Band38	15MHz	16QAM	38175	75RB#0	-40.30,-36.01,-33.13	PASS
Band38	20MHz	QPSK	37850	1RB#0	-41.40,-41.57,-25.34	PASS

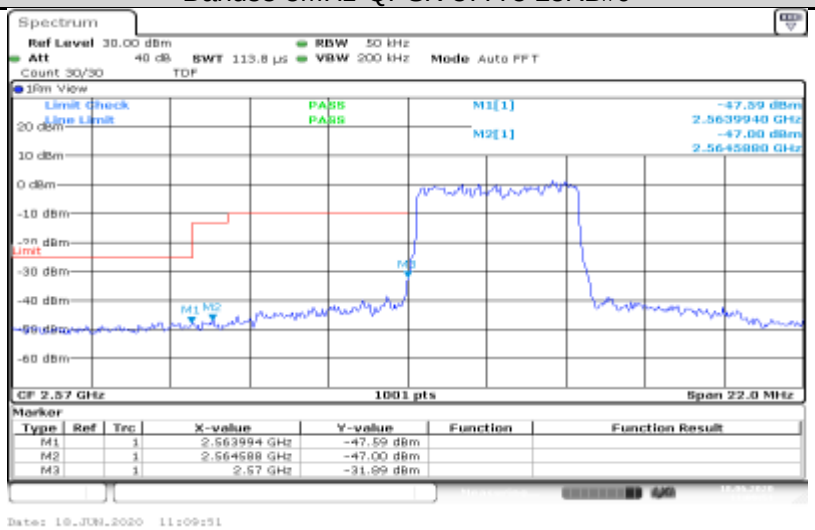
Band38	20MHz	QPSK	37850	100RB#0	-40.88,-38.53,-30.08	PASS
Band38	20MHz	QPSK	38150	1RB#99	-41.89,-41.69,-28.18	PASS
Band38	20MHz	QPSK	38150	100RB#0	-41.16,-36.55,-31.41	PASS
Band38	20MHz	16QAM	37850	1RB#0	-41.28,-41.22,-30.05	PASS
Band38	20MHz	16QAM	37850	100RB#0	-41.46,-38.86,-37.04	PASS
Band38	20MHz	16QAM	38150	1RB#99	-42.00,-39.54,-41.14	PASS
Band38	20MHz	16QAM	38150	100RB#0	-41.14,-36.52,-34.20	PASS

4.2 Test Graphs

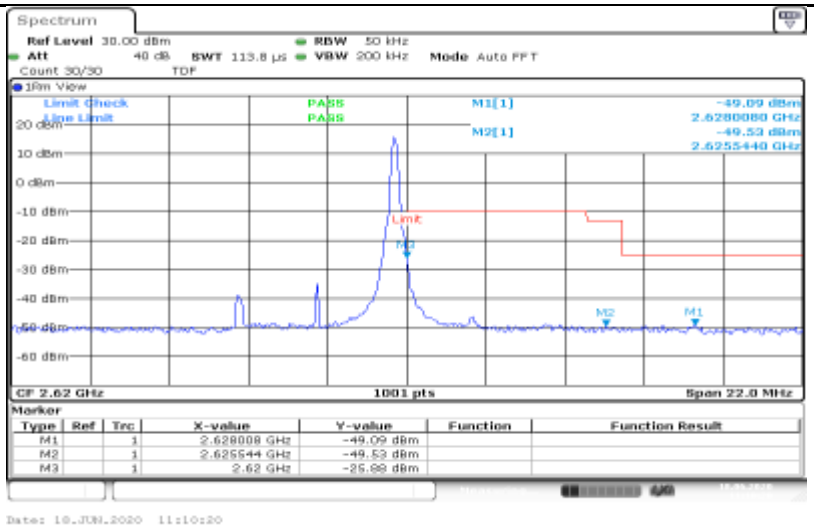
Band38-5MHz-QPSK-37775-1RB#0



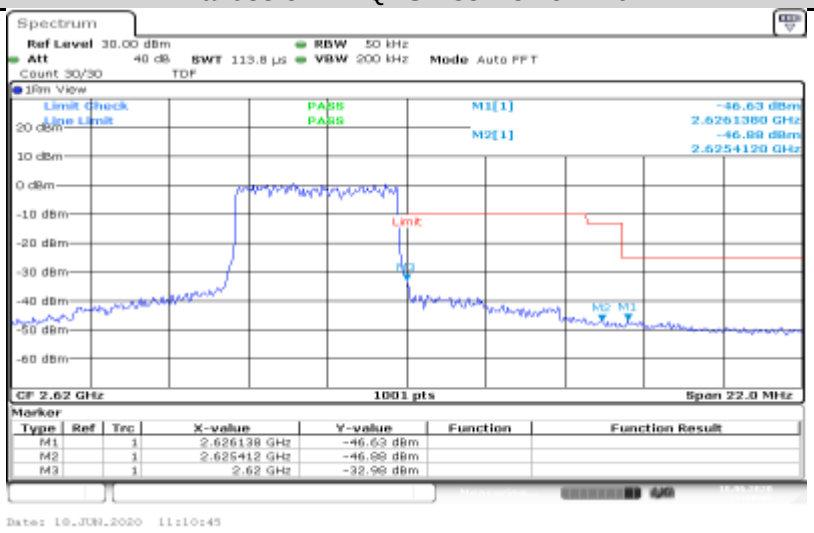
Band38-5MHz-QPSK-37775-25RB#0



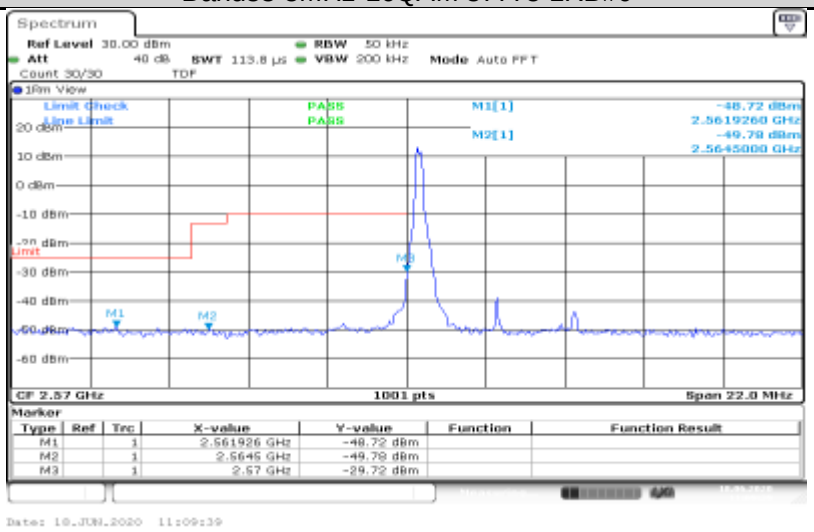
Band38-5MHz-QPSK-38225-1RB#24



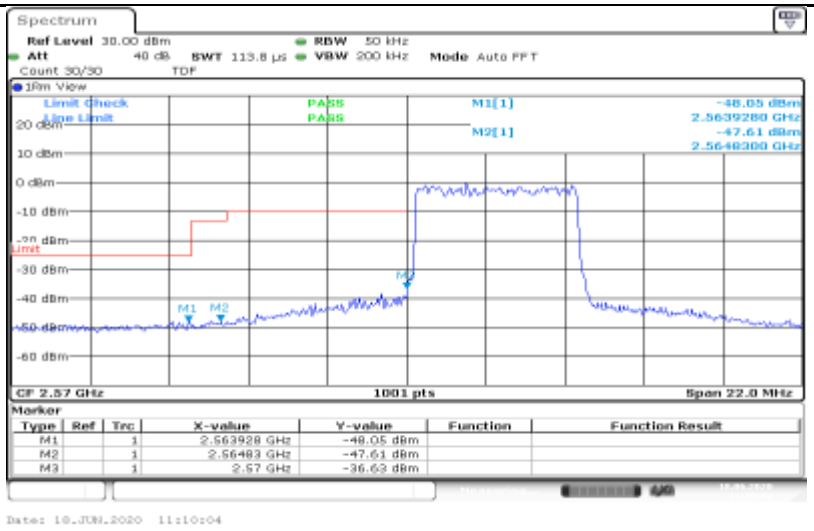
Band38-5MHz-QPSK-38225-25RB#0



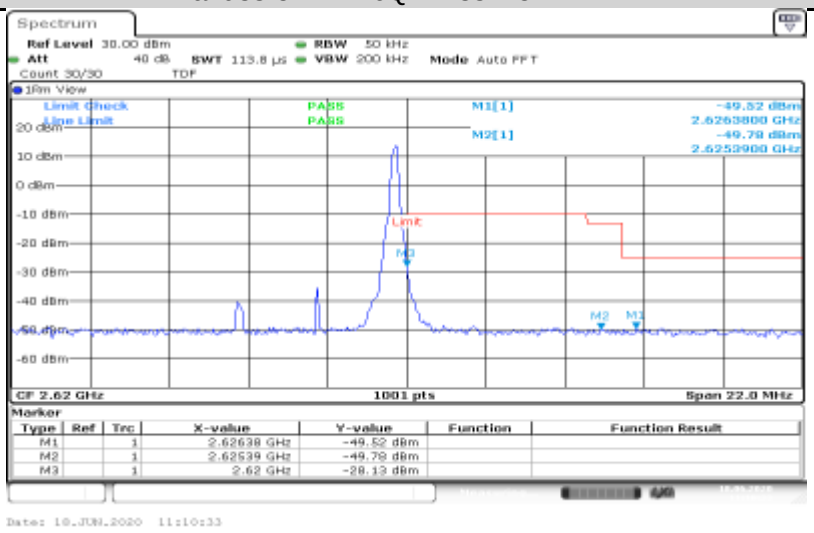
Band38-5MHz-16QAM-37775-1RB#0



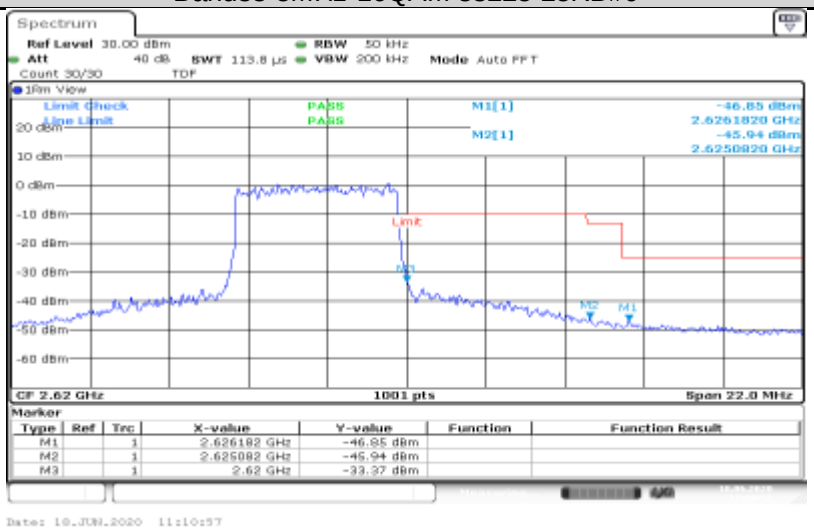
Band38-5MHz-16QAM-37775-25RB#0



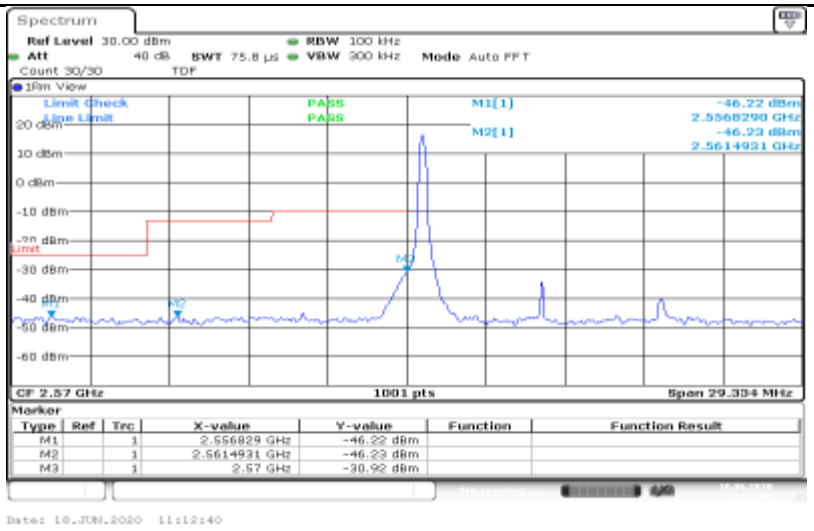
Band38-5MHz-16QAM-38225-1RB#24



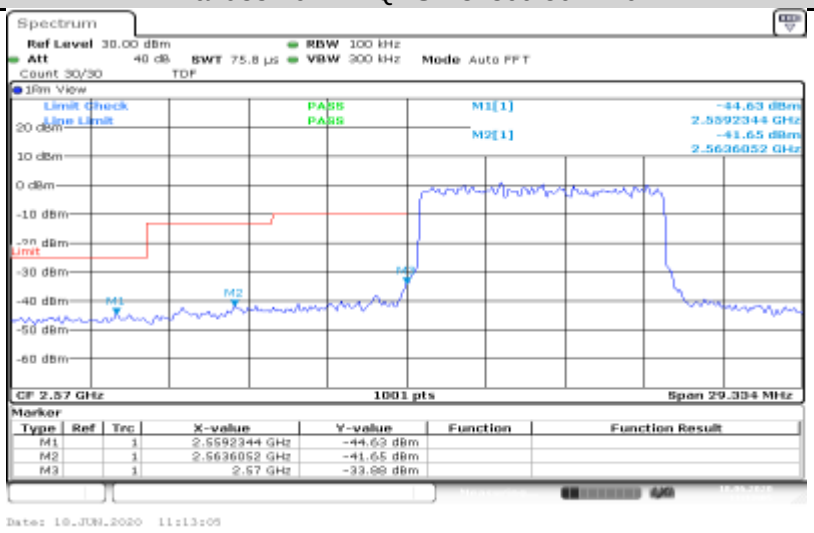
Band38-5MHz-16QAM-38225-25RB#0



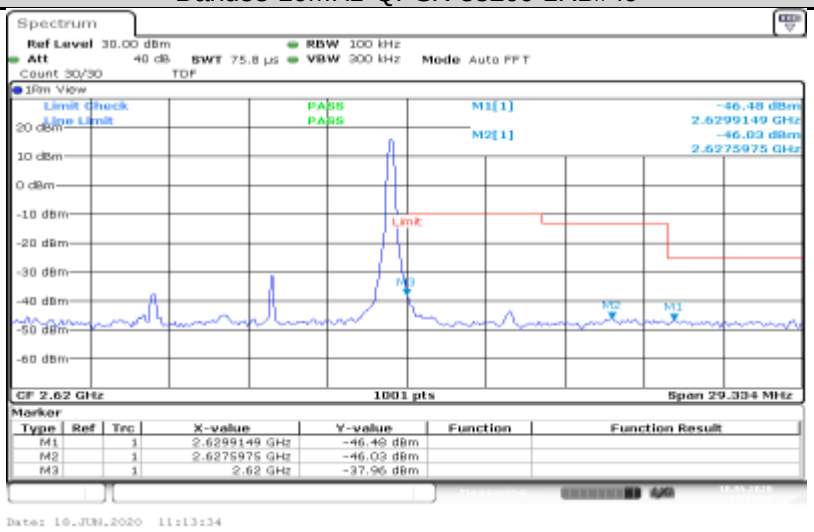
Band38-10MHz-QPSK-37800-1RB#0



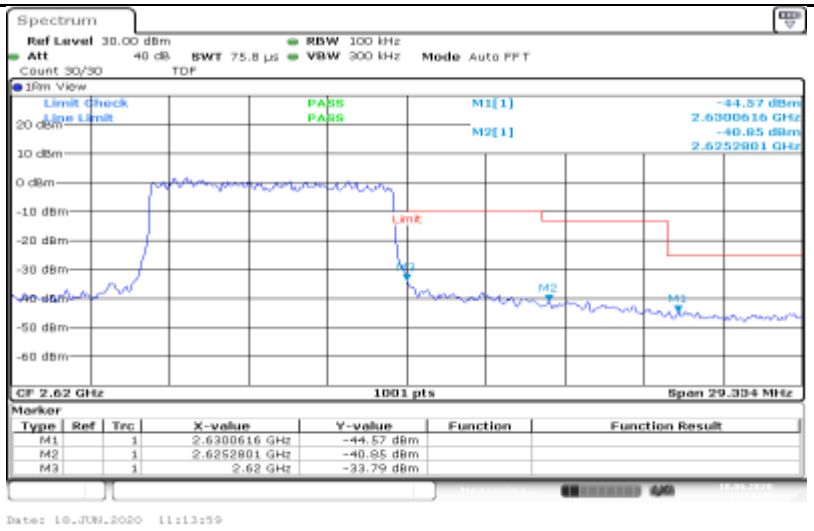
Band38-10MHz-QPSK-37800-50RB#0



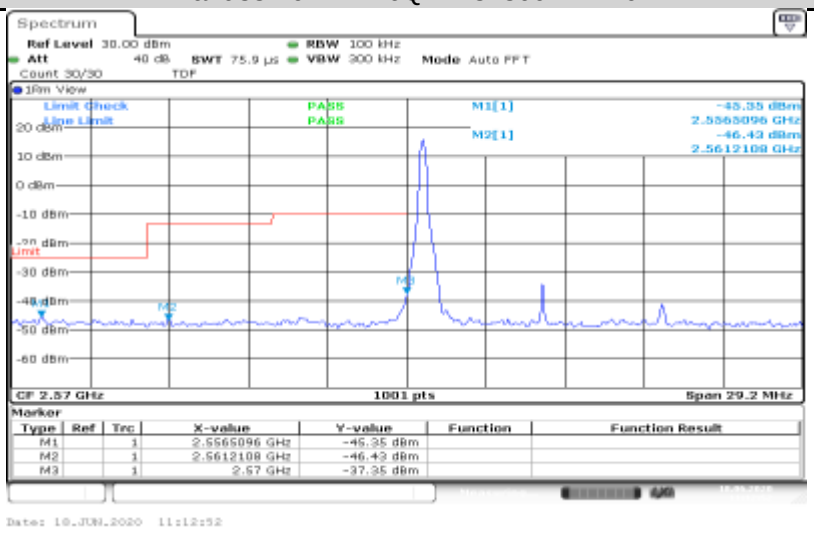
Band38-10MHz-QPSK-38200-1RB#49



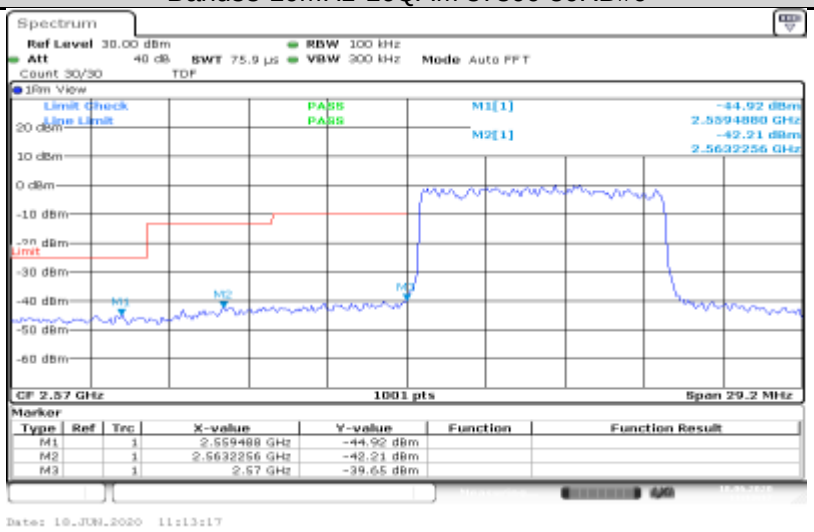
Band38-10MHz-QPSK-38200-50RB#0



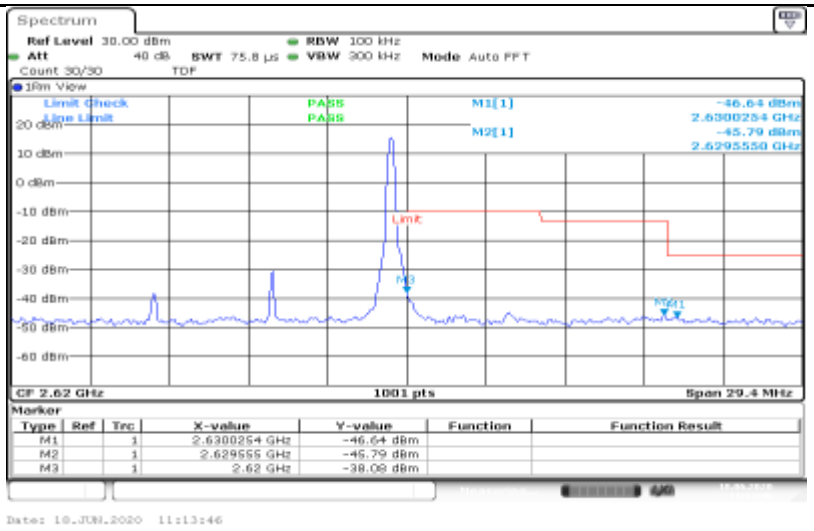
Band38-10MHz-16QAM-37800-1RB#0



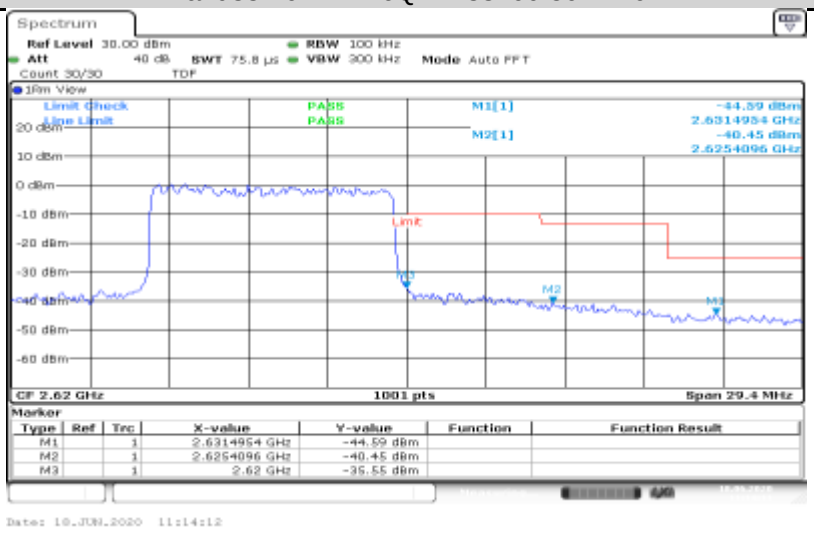
Band38-10MHz-16QAM-37800-50RB#0



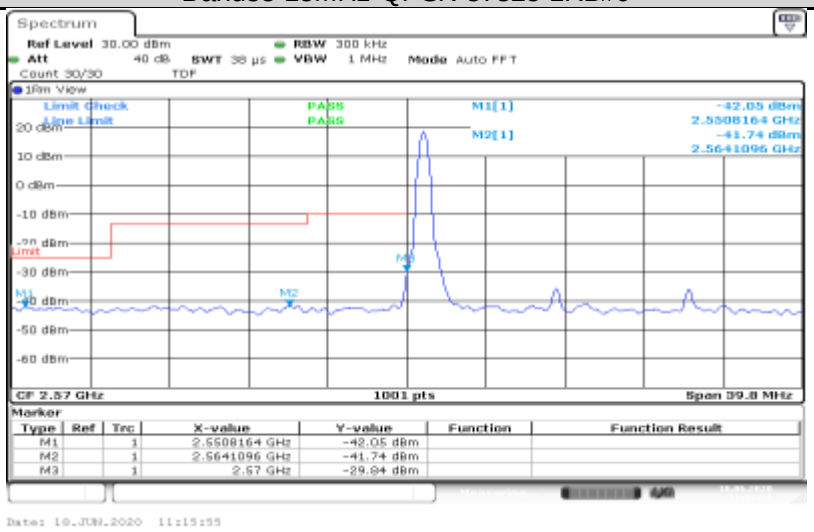
Band38-10MHz-16QAM-38200-1RB#49



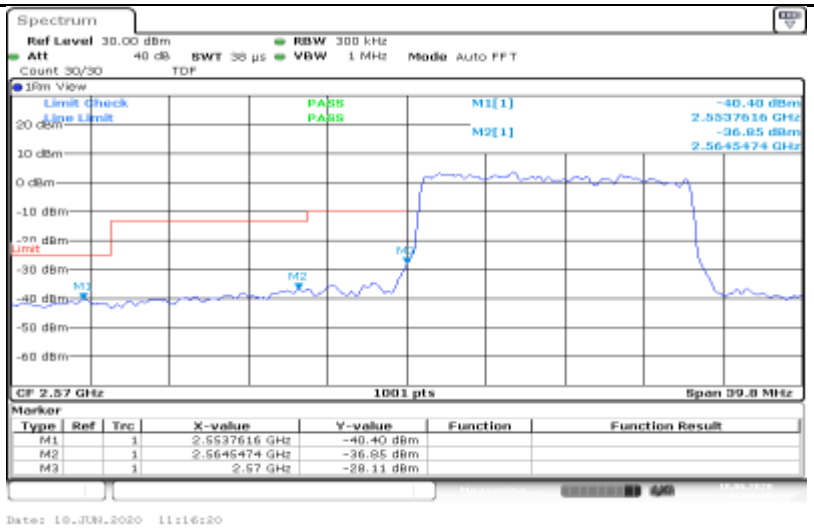
Band38-10MHz-16QAM-38200-50RB#0



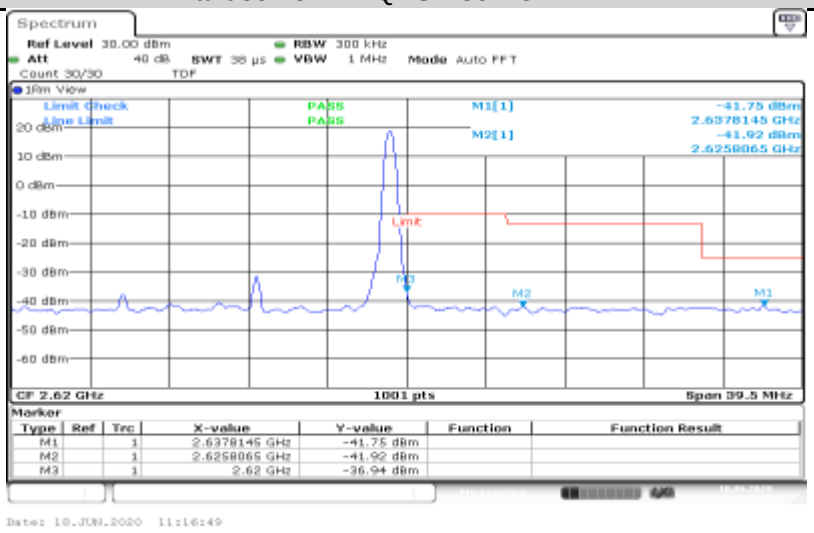
Band38-15MHz-QPSK-37825-1RB#0



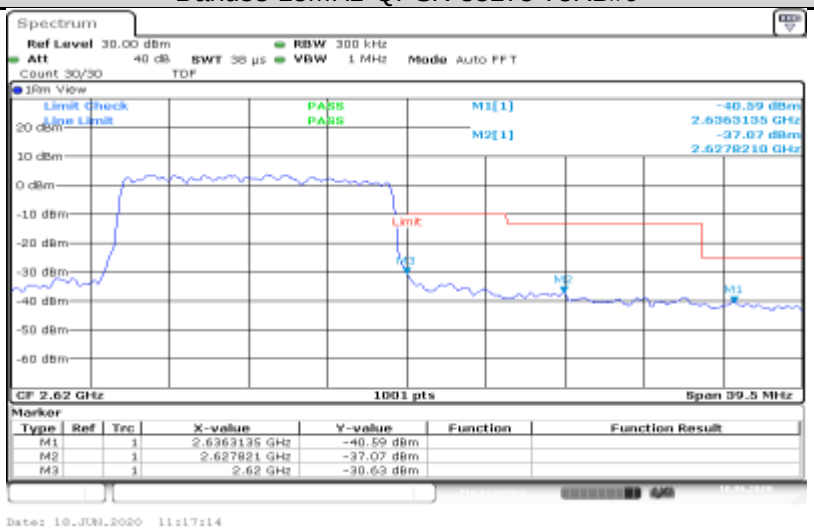
Band38-15MHz-QPSK-37825-75RB#0



Band38-15MHz-QPSK-38175-1RB#74



Band38-15MHz-QPSK-38175-75RB#0



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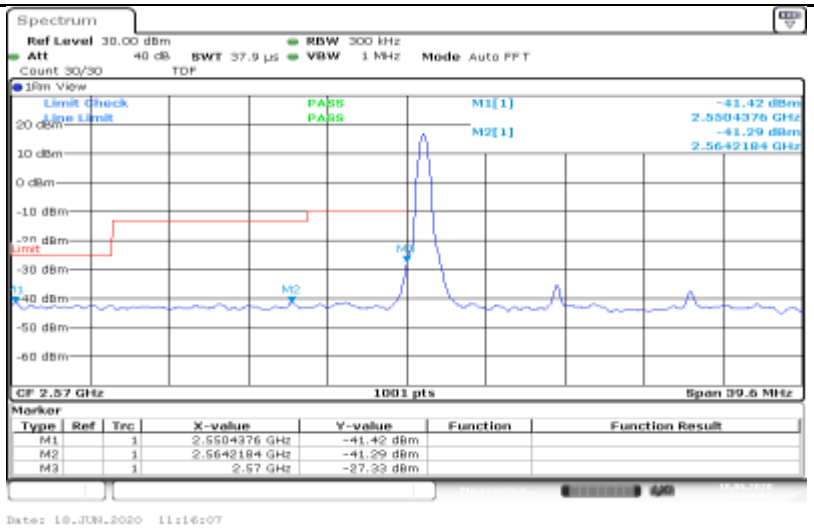
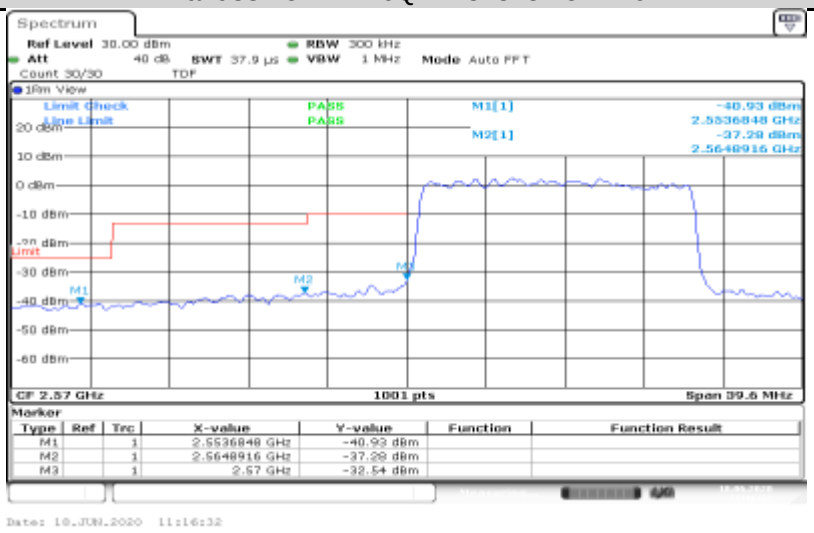
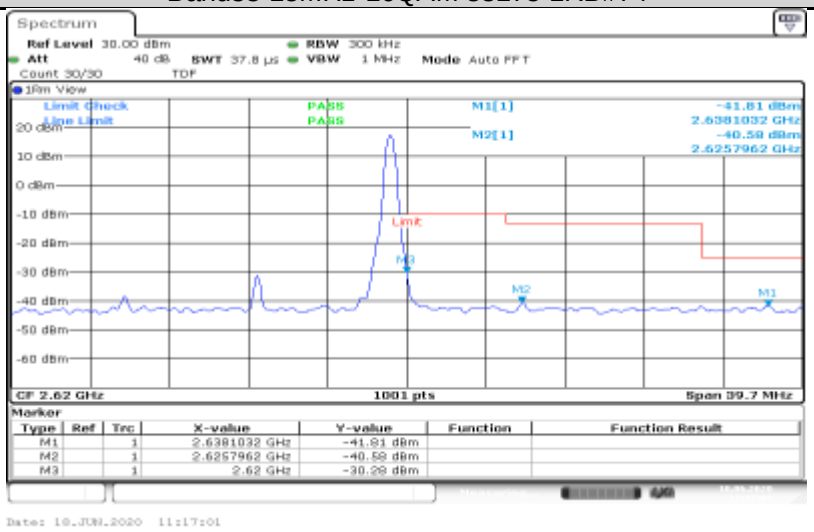


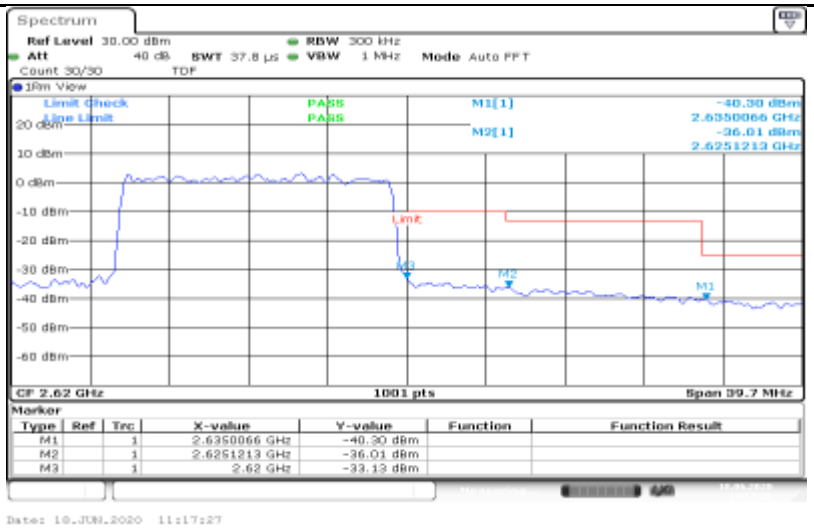
Band38-15MHz-16QAM-37825-75RB#0



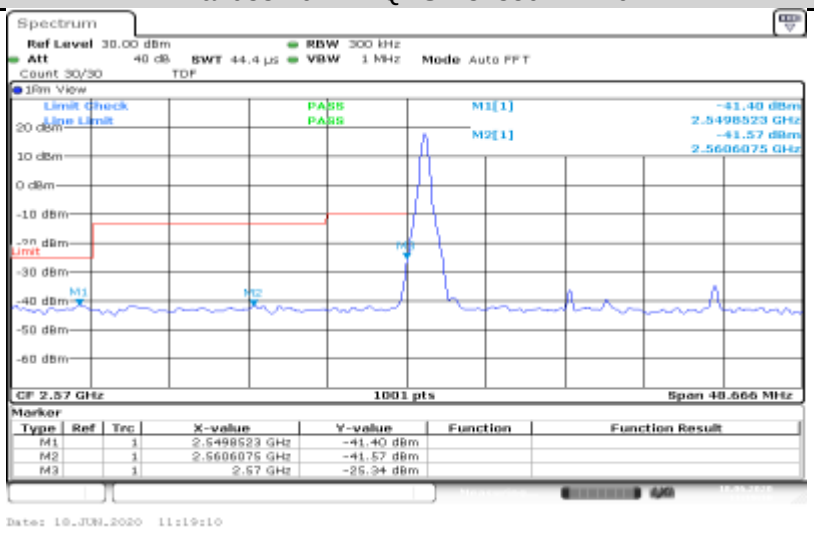
Band38-15MHz-16QAM-38175-1RB#74



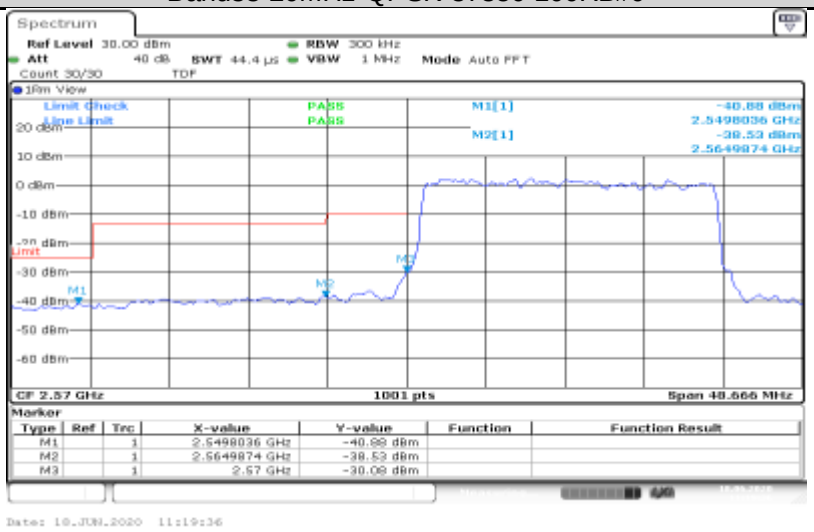
Band38-15MHz-16QAM-38175-75RB#0



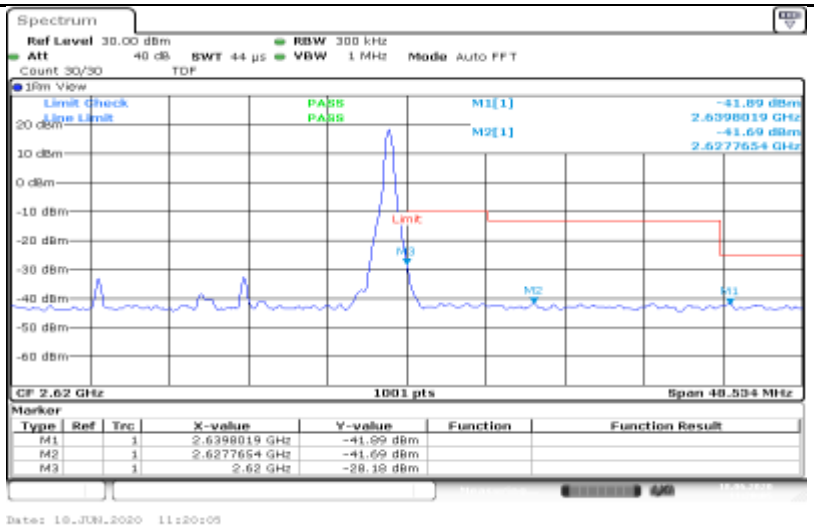
Band38-20MHz-QPSK-37850-1RB#0



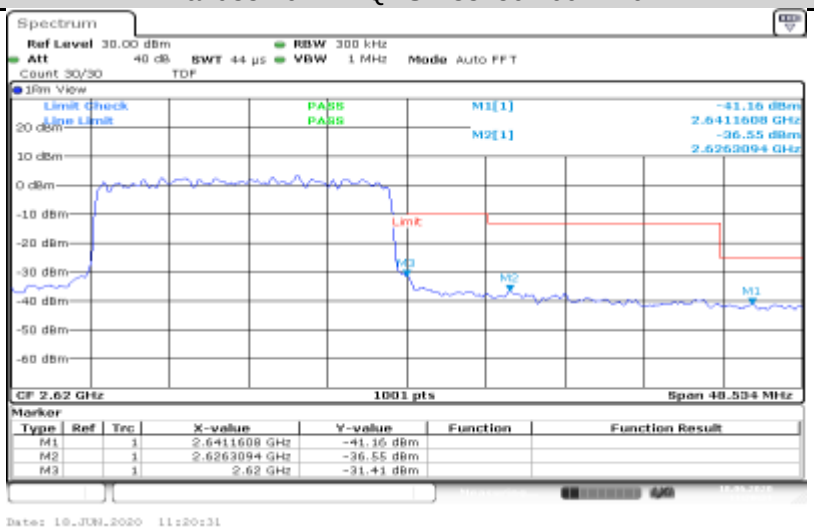
Band38-20MHz-QPSK-37850-100RB#0



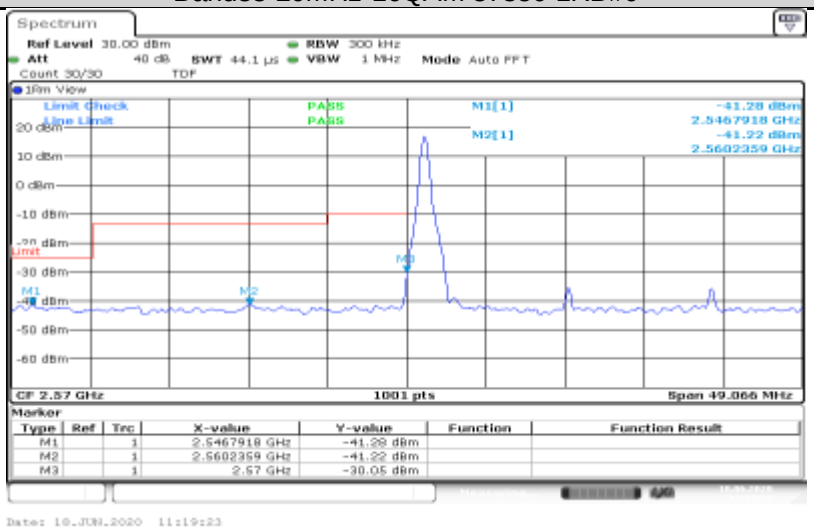
Band38-20MHz-QPSK-38150-1RB#99



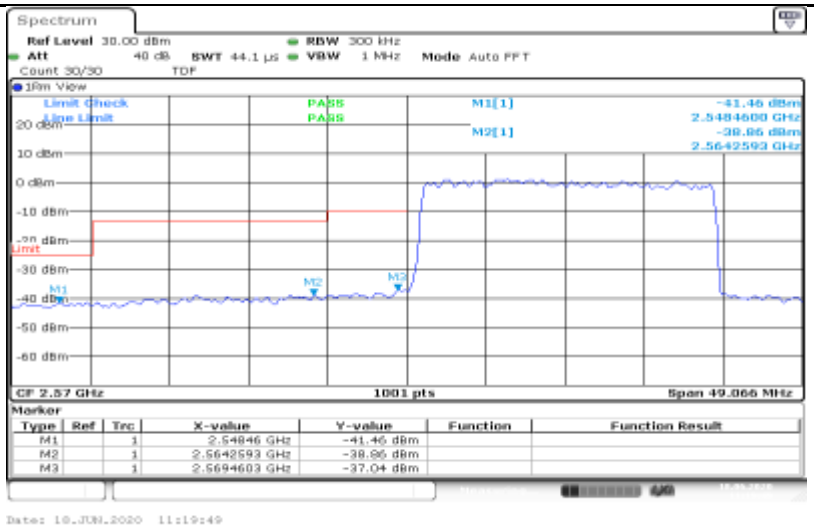
Band38-20MHz-QPSK-38150-100RB#0



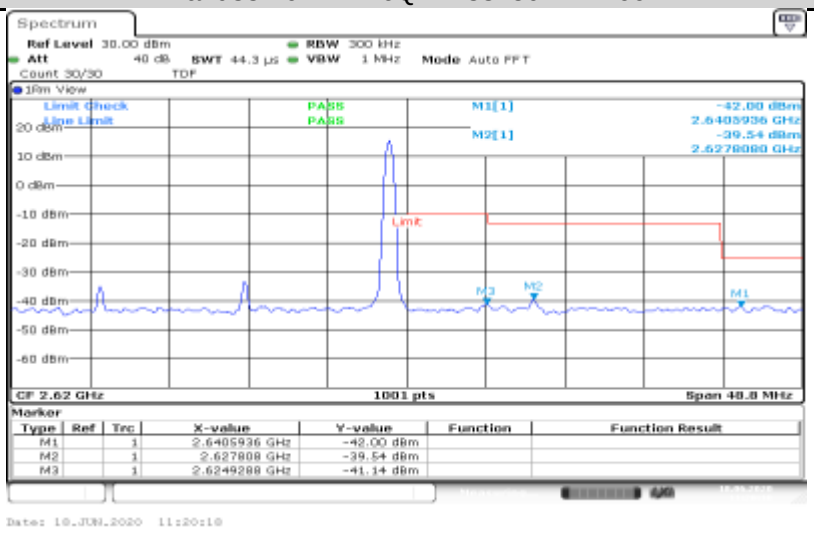
Band38-20MHz-16QAM-37850-1RB#0



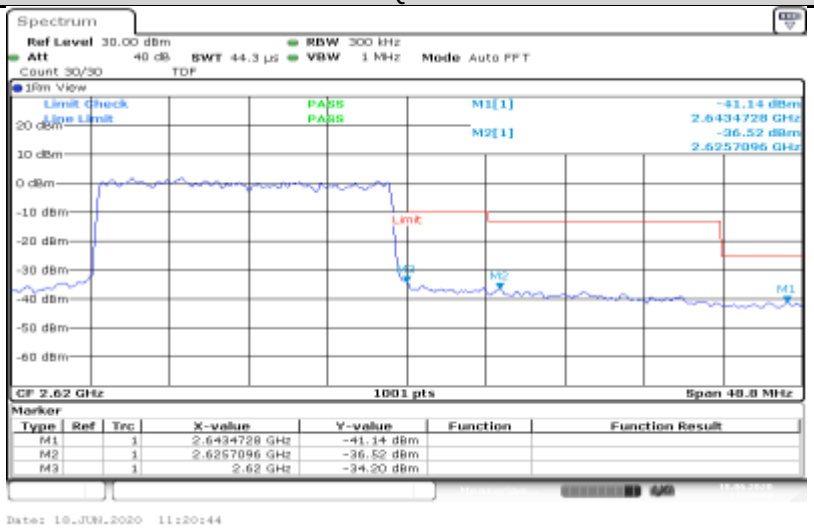
Band38-20MHz-16QAM-37850-100RB#0



Band38-20MHz-16QAM-38150-1RB#99



Band38-20MHz-16QAM-38150-100RB#0



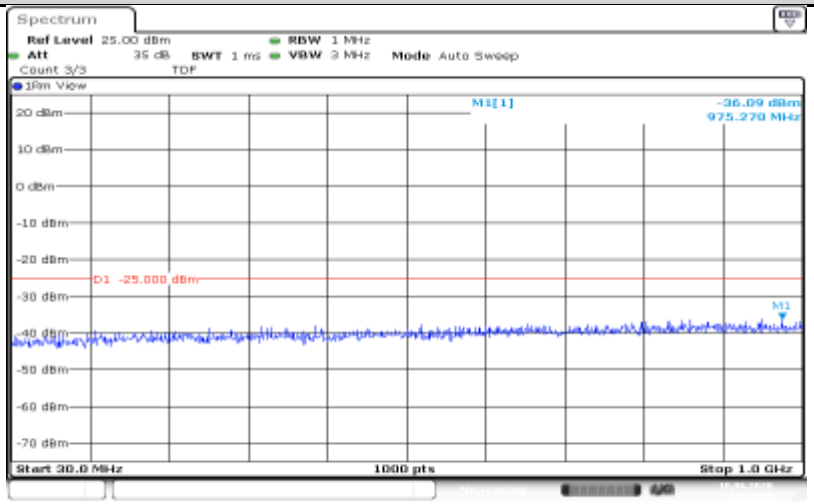
5. Conducted Spurious Emission

5.1 Test Result

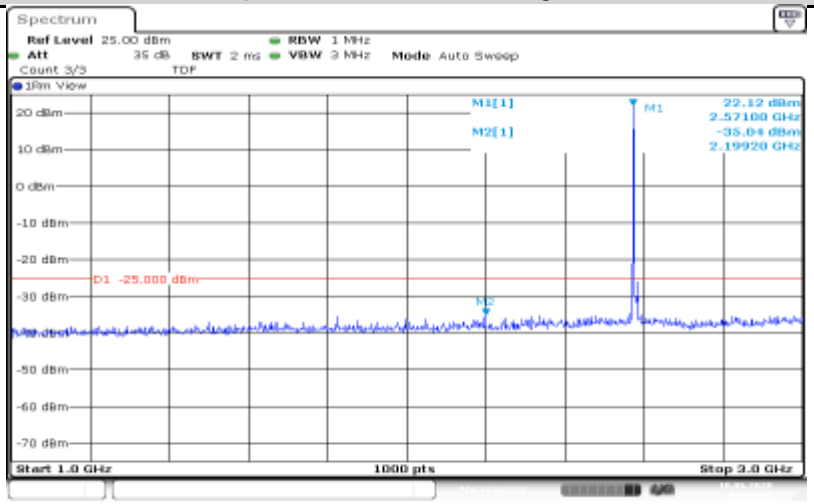
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band38	20MHz	QPSK	37850	1RB#0	Range1:30~1000MHz	-36.09	PASS
Band38	20MHz	QPSK	37850	1RB#0	Range2:1000~3000MHz	-35.04	PASS
Band38	20MHz	QPSK	37850	1RB#0	Range3:3000~26500MHz	-37.74	PASS
Band38	20MHz	QPSK	38000	1RB#0	Range1:30~1000MHz	-36.31	PASS
Band38	20MHz	QPSK	38000	1RB#0	Range2:1000~3000MHz	-34.73	PASS
Band38	20MHz	QPSK	38000	1RB#0	Range3:3000~26500MHz	-37.57	PASS
Band38	20MHz	QPSK	38150	1RB#0	Range1:30~1000MHz	-34.94	PASS
Band38	20MHz	QPSK	38150	1RB#0	Range2:1000~3000MHz	-33.35	PASS
Band38	20MHz	QPSK	38150	1RB#0	Range3:3000~26500MHz	-37.73	PASS
Band38	20MHz	16QAM	37850	1RB#0	Range1:30~1000MHz	-36.01	PASS
Band38	20MHz	16QAM	37850	1RB#0	Range2:1000~3000MHz	-35	PASS
Band38	20MHz	16QAM	37850	1RB#0	Range3:3000~26500MHz	-37.09	PASS
Band38	20MHz	16QAM	38000	1RB#0	Range1:30~1000MHz	-36.07	PASS
Band38	20MHz	16QAM	38000	1RB#0	Range2:1000~3000MHz	-34.48	PASS
Band38	20MHz	16QAM	38000	1RB#0	Range3:3000~26500MHz	-37.04	PASS
Band38	20MHz	16QAM	38150	1RB#0	Range1:30~1000MHz	-35.84	PASS
Band38	20MHz	16QAM	38150	1RB#0	Range2:1000~3000MHz	-34.27	PASS
Band38	20MHz	16QAM	38150	1RB#0	Range3:3000~26500MHz	-37.8	PASS

5.2 Test Graphs

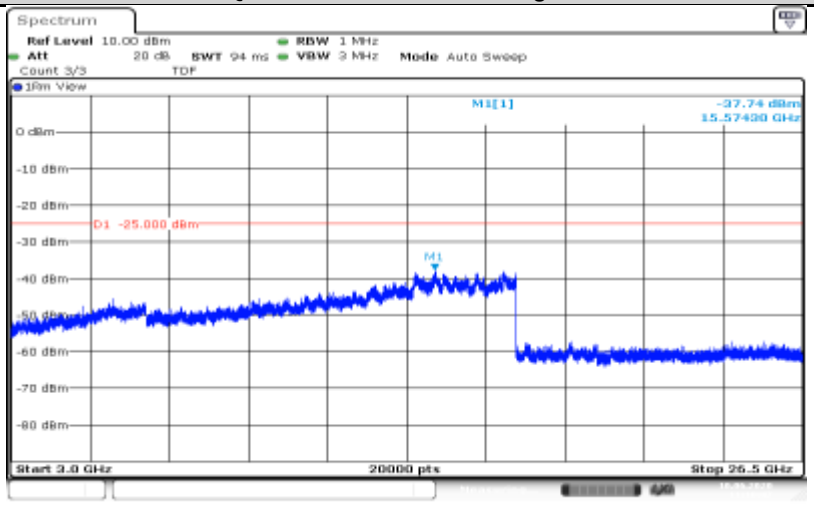
Band38-20MHz-QPSK-37850-1RB#0-Range1:30~1000MHz



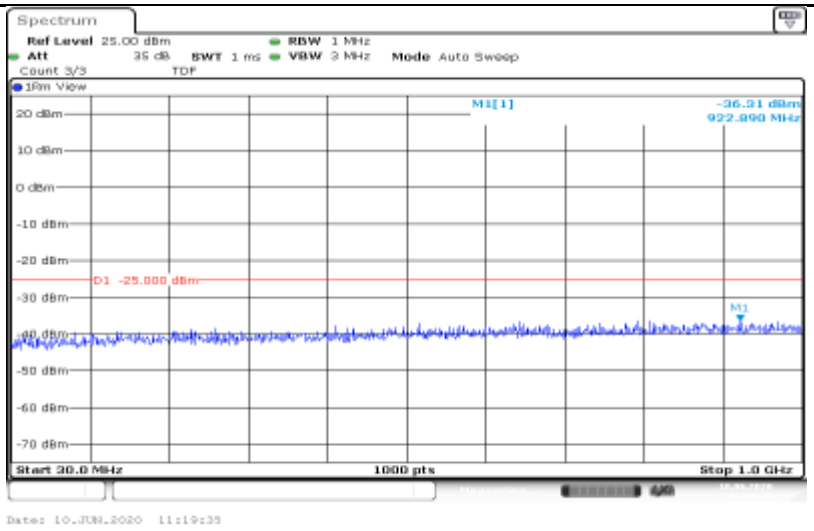
Band38-20MHz-QPSK-37850-1RB#0-Range2:1000~3000MHz



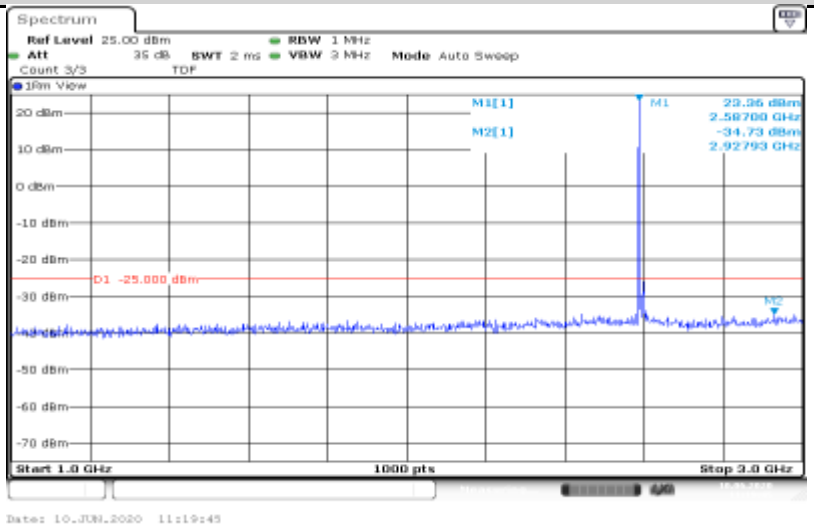
Band38-20MHz-QPSK-37850-1RB#0-Range3:3000~26500MHz



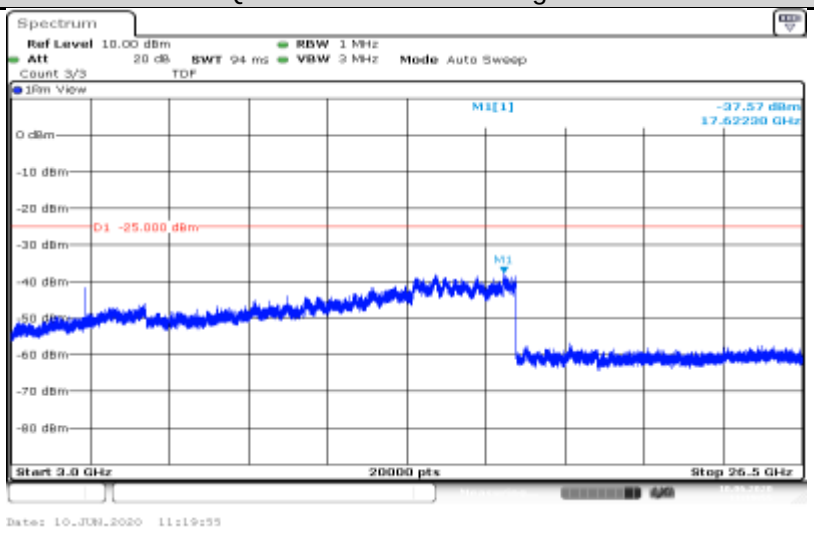
Band38-20MHz-QPSK-38000-1RB#0-Range1:30~1000MHz



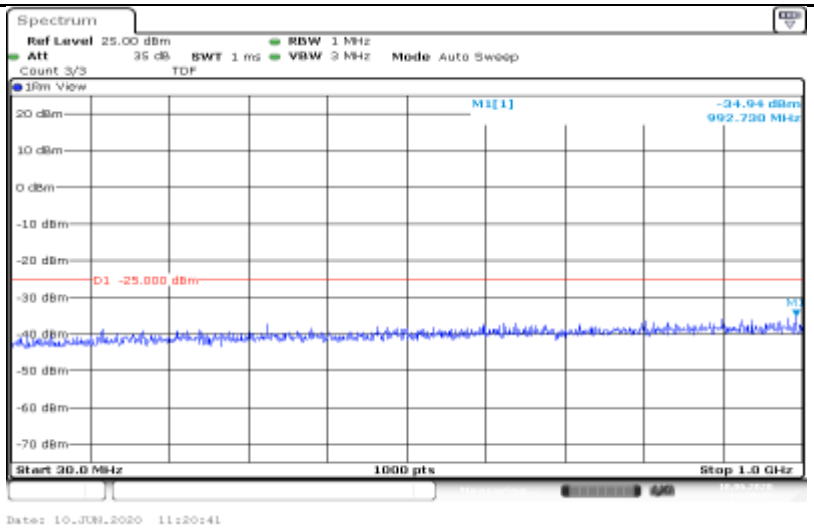
Band38-20MHz-QPSK-38000-1RB#0-Range2:1000~3000MHz



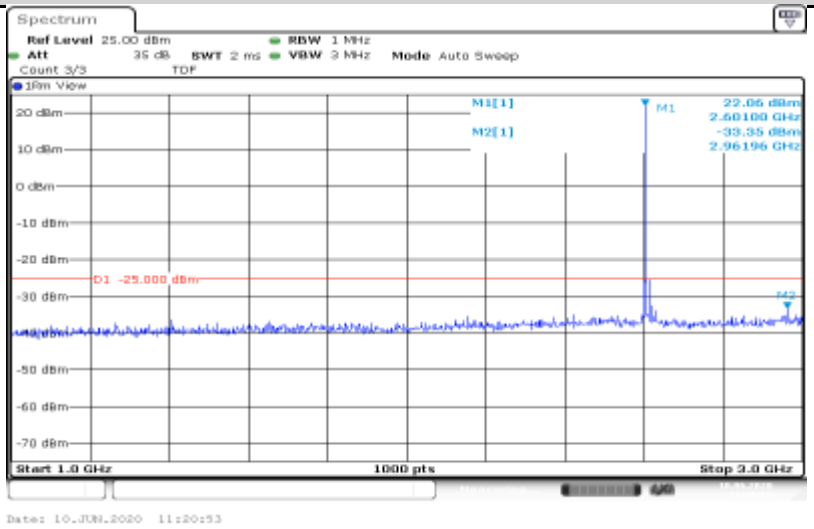
Band38-20MHz-QPSK-38000-1RB#0-Range3:3000~26500MHz



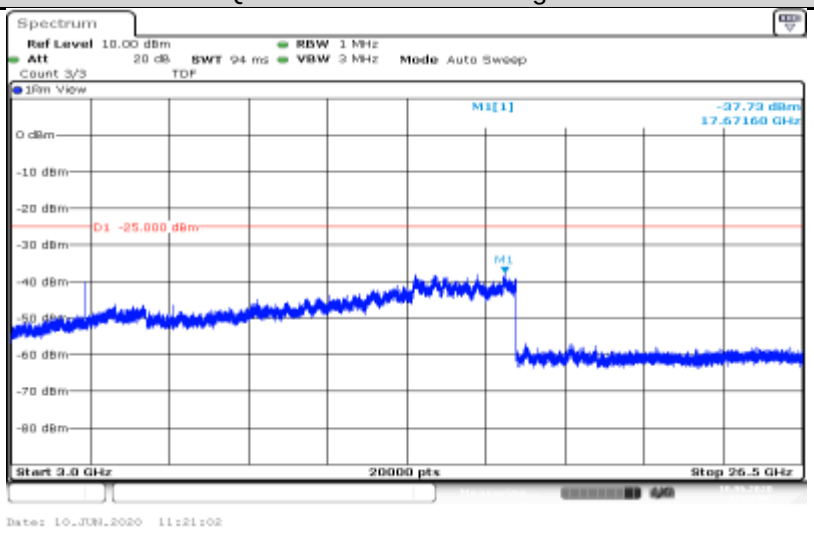
Band38-20MHz-QPSK-38150-1RB#0-Range1:30~1000MHz



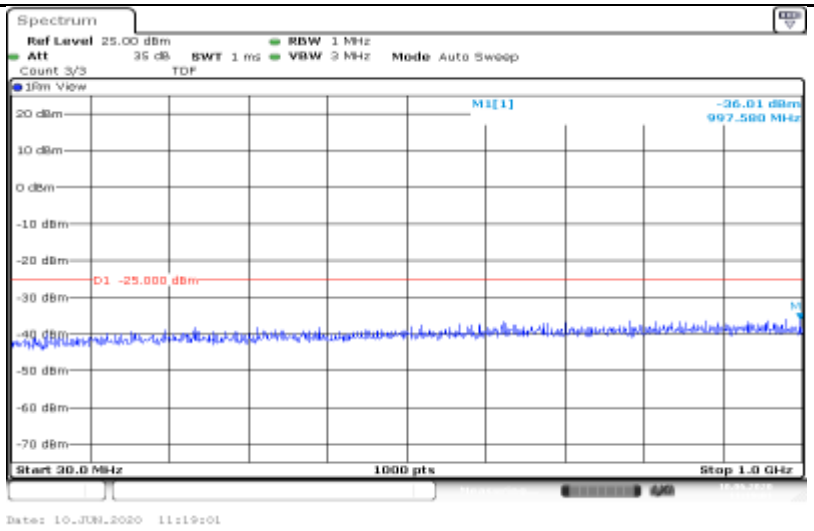
Band38-20MHz-QPSK-38150-1RB#0-Range2:1000~3000MHz



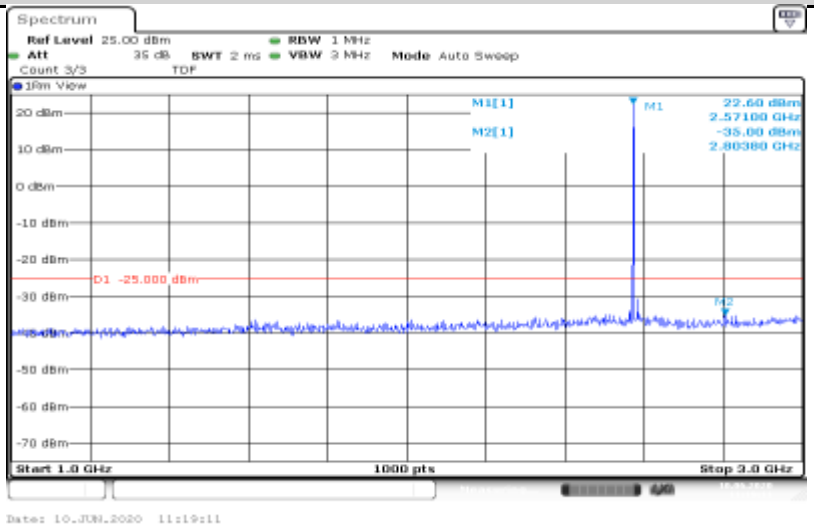
Band38-20MHz-QPSK-38150-1RB#0-Range3:3000~26500MHz



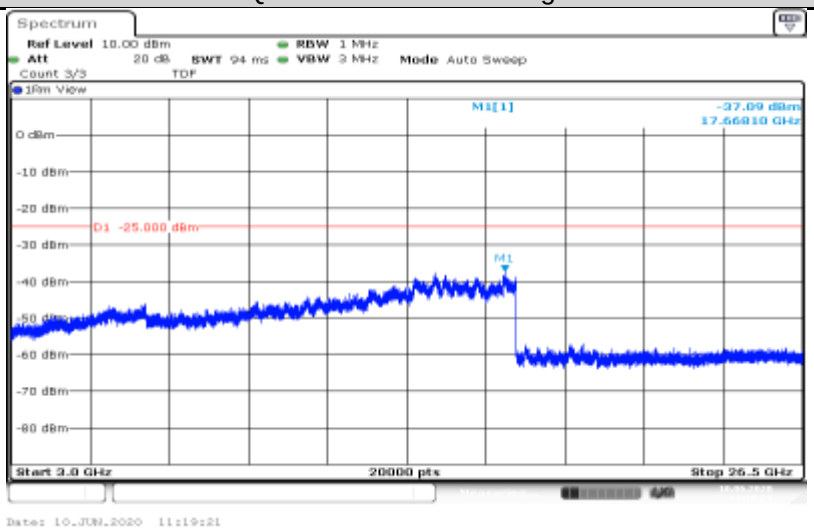
Band38-20MHz-16QAM-37850-1RB#0-Range1:30~1000MHz



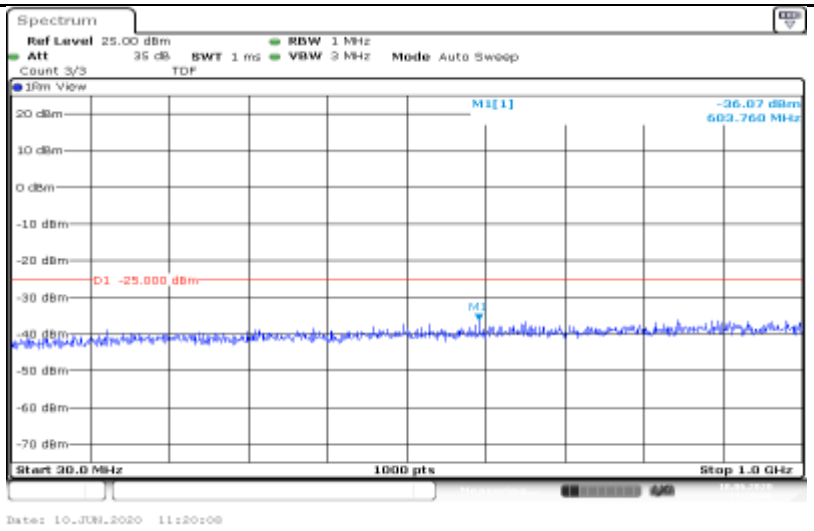
Band38-20MHz-16QAM-37850-1RB#0-Range2:1000~3000MHz



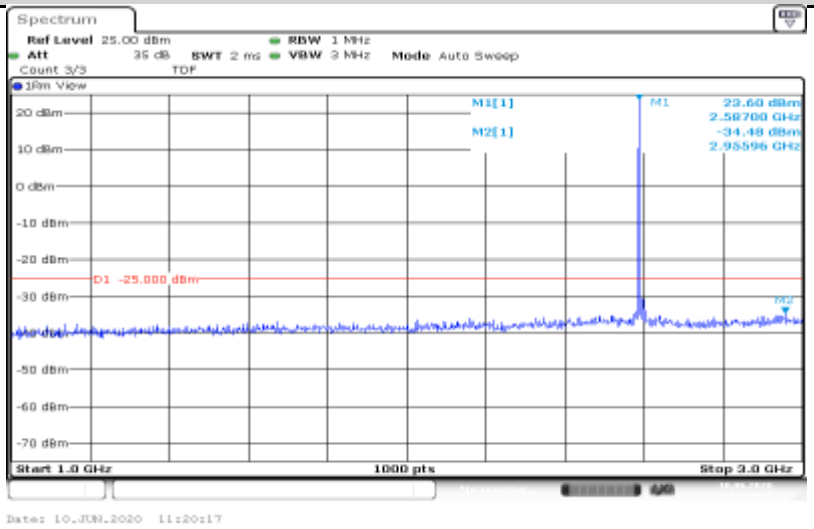
Band38-20MHz-16QAM-37850-1RB#0-Range3:3000~26500MHz



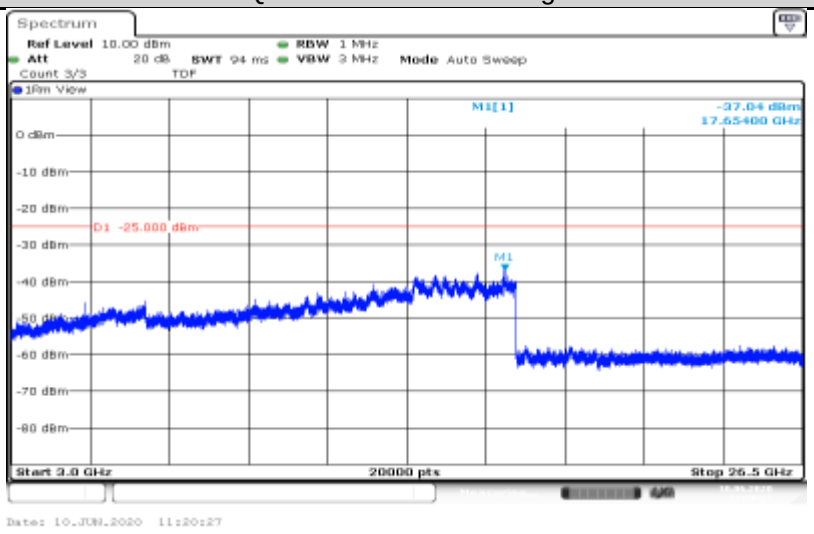
Band38-20MHz-16QAM-38000-1RB#0-Range1:30~1000MHz



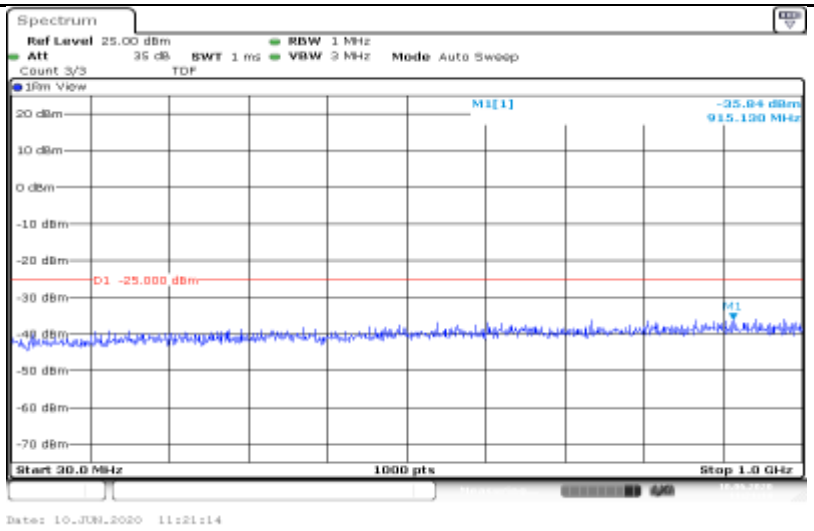
Band38-20MHz-16QAM-38000-1RB#0-Range2:1000~3000MHz



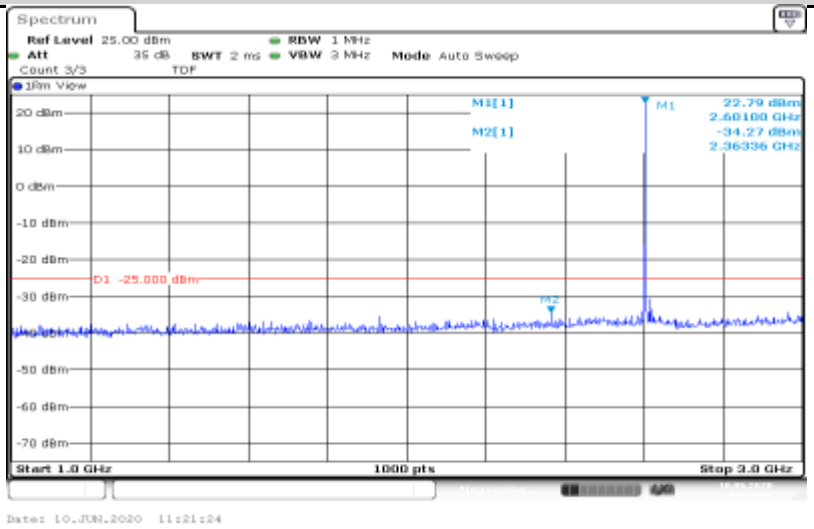
Band38-20MHz-16QAM-38000-1RB#0-Range3:3000~26500MHz



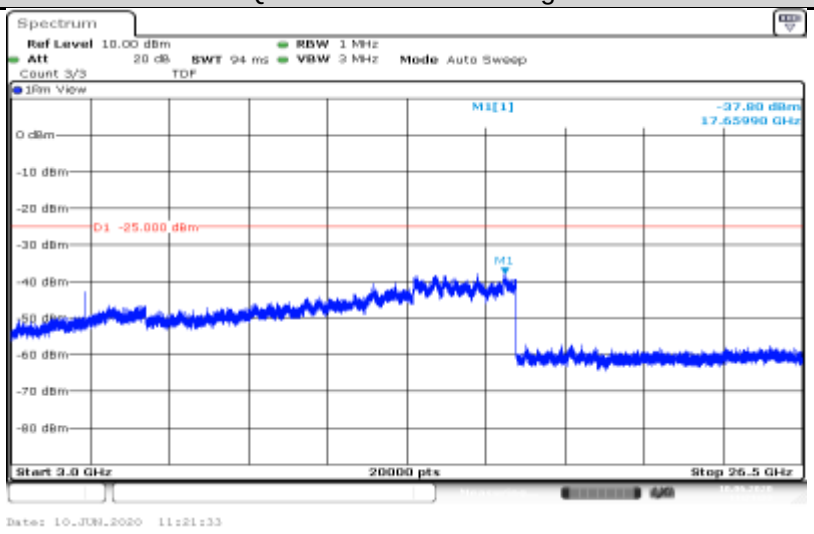
Band38-20MHz-16QAM-38150-1RB#0-Range1:30~1000MHz



Band38-20MHz-16QAM-38150-1RB#0-Range2:1000~3000MHz



Band38-20MHz-16QAM-38150-1RB#0-Range3:3000~26500MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	VL	NT	4.43	0.001717	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VN	NT	21.27	0.008244	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	VH	NT	11.17	0.004329	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	21.97	0.008466	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	22.40	0.008632	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	16.82	0.006482	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VL	NT	10.76	0.004123	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VN	NT	15.18	0.005816	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	VH	NT	9.48	0.003632	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VL	NT	8.70	0.003372	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VN	NT	16.28	0.006310	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	VH	NT	16.12	0.006248	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VL	NT	18.67	0.007195	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VN	NT	11.23	0.004328	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	VH	NT	11.97	0.004613	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VL	NT	7.65	0.002931	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VN	NT	11.49	0.004402	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	VH	NT	20.37	0.007805	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	NV	-30	16.98	0.006581	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	-20	9.83	0.003810	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	0	17.40	0.006744	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	10	22.16	0.008589	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	20	13.22	0.005124	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	30	18.91	0.007329	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	40	12.80	0.004961	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	50	20.34	0.007884	±2.5	PASS
Band38	20MHz	QPSK	37850	100RB#0	NV	55	12.00	0.004651	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	24.29	0.009360	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	14.13	0.005445	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	23.50	0.009056	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	13.56	0.005225	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	22.20	0.008555	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	12.82	0.004940	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	21.26	0.008193	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	10.60	0.004085	±2.5	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	55	21.84	0.008416	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-30	23.03	0.008824	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	-20	15.51	0.005943	±2.5	PASS

Band38	20MHz	QPSK	38150	100RB#0	NV	0	9.08	0.003479	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	10	20.23	0.007751	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	20	13.82	0.005295	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	30	6.97	0.002670	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	40	16.45	0.006303	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	50	10.90	0.004176	±2.5	PASS
Band38	20MHz	QPSK	38150	100RB#0	NV	55	23.05	0.008831	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-30	17.70	0.006860	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	-20	12.39	0.004802	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	0	10.60	0.004109	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	10	-4.05	-0.001570	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	20	14.12	0.005473	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	30	-3.52	-0.001364	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	40	5.72	0.002217	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	50	20.59	0.007981	±2.5	PASS
Band38	20MHz	16QAM	37850	100RB#0	NV	55	21.23	0.008229	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-30	5.71	0.002200	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	-20	18.70	0.007206	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	0	15.86	0.006112	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	10	10.64	0.004100	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	20	19.28	0.007430	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	30	16.88	0.006505	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	40	12.35	0.004759	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	50	10.07	0.003881	±2.5	PASS
Band38	20MHz	16QAM	38000	100RB#0	NV	55	16.12	0.006212	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-30	13.22	0.005065	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	-20	8.80	0.003372	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	0	17.65	0.006762	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	10	13.32	0.005103	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	20	9.53	0.003651	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	30	19.81	0.007590	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	40	13.45	0.005153	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	50	14.72	0.005640	±2.5	PASS
Band38	20MHz	16QAM	38150	100RB#0	NV	55	15.48	0.005931	±2.5	PASS

Appendix P: Test Results of LTE Band 40 operation_Part 1

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6.1 Test Result 25

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	38725	1RB#12	22.95	PASS
Band40	5MHz	QPSK	38725	1RB#24	22.86	PASS
Band40	5MHz	QPSK	38725	1RB#0	22.84	PASS
Band40	5MHz	QPSK	38725	12RB#0	21.87	PASS
Band40	5MHz	QPSK	38725	12RB#6	21.84	PASS
Band40	5MHz	QPSK	38725	12RB#13	21.92	PASS
Band40	5MHz	QPSK	38725	25RB#0	21.85	PASS
Band40	5MHz	QPSK	38750	1RB#0	22.89	PASS
Band40	5MHz	QPSK	38750	1RB#12	22.95	PASS
Band40	5MHz	QPSK	38750	1RB#24	22.93	PASS
Band40	5MHz	QPSK	38750	12RB#0	21.85	PASS
Band40	5MHz	QPSK	38750	12RB#6	21.85	PASS
Band40	5MHz	QPSK	38750	12RB#13	21.90	PASS
Band40	5MHz	QPSK	38750	25RB#0	21.88	PASS
Band40	5MHz	QPSK	38775	1RB#24	22.82	PASS
Band40	5MHz	QPSK	38775	1RB#0	22.80	PASS
Band40	5MHz	QPSK	38775	1RB#12	22.91	PASS
Band40	5MHz	QPSK	38775	12RB#6	21.80	PASS
Band40	5MHz	QPSK	38775	12RB#0	21.80	PASS
Band40	5MHz	QPSK	38775	12RB#13	21.84	PASS
Band40	5MHz	QPSK	38775	25RB#0	21.81	PASS
Band40	5MHz	16QAM	38725	1RB#12	21.94	PASS
Band40	5MHz	16QAM	38725	1RB#0	21.85	PASS
Band40	5MHz	16QAM	38725	1RB#24	21.86	PASS
Band40	5MHz	16QAM	38725	12RB#13	20.90	PASS
Band40	5MHz	16QAM	38725	12RB#6	20.90	PASS
Band40	5MHz	16QAM	38725	12RB#0	20.93	PASS
Band40	5MHz	16QAM	38725	25RB#0	20.94	PASS
Band40	5MHz	16QAM	38750	1RB#0	21.88	PASS
Band40	5MHz	16QAM	38750	1RB#12	21.95	PASS
Band40	5MHz	16QAM	38750	1RB#24	21.88	PASS
Band40	5MHz	16QAM	38750	12RB#0	20.90	PASS

Band40	5MHz	16QAM	38750	12RB#6	20.89	PASS
Band40	5MHz	16QAM	38750	12RB#13	20.99	PASS
Band40	5MHz	16QAM	38750	25RB#0	20.95	PASS
Band40	5MHz	16QAM	38775	1RB#0	21.94	PASS
Band40	5MHz	16QAM	38775	1RB#12	22.01	PASS
Band40	5MHz	16QAM	38775	1RB#24	21.92	PASS
Band40	5MHz	16QAM	38775	12RB#13	20.96	PASS
Band40	5MHz	16QAM	38775	12RB#0	20.92	PASS
Band40	5MHz	16QAM	38775	12RB#6	20.92	PASS
Band40	5MHz	16QAM	38775	25RB#0	20.85	PASS
Band40	10MHz	QPSK	38750	1RB#49	22.94	PASS
Band40	10MHz	QPSK	38750	1RB#24	22.88	PASS
Band40	10MHz	QPSK	38750	1RB#0	22.88	PASS
Band40	10MHz	QPSK	38750	25RB#0	21.89	PASS
Band40	10MHz	QPSK	38750	25RB#12	21.89	PASS
Band40	10MHz	QPSK	38750	25RB#25	21.91	PASS
Band40	10MHz	QPSK	38750	50RB#0	21.87	PASS
Band40	10MHz	16QAM	38750	1RB#49	21.79	PASS
Band40	10MHz	16QAM	38750	1RB#0	21.73	PASS
Band40	10MHz	16QAM	38750	1RB#24	21.76	PASS
Band40	10MHz	16QAM	38750	25RB#0	20.97	PASS
Band40	10MHz	16QAM	38750	25RB#12	20.97	PASS
Band40	10MHz	16QAM	38750	25RB#25	20.95	PASS
Band40	10MHz	16QAM	38750	50RB#0	20.95	PASS

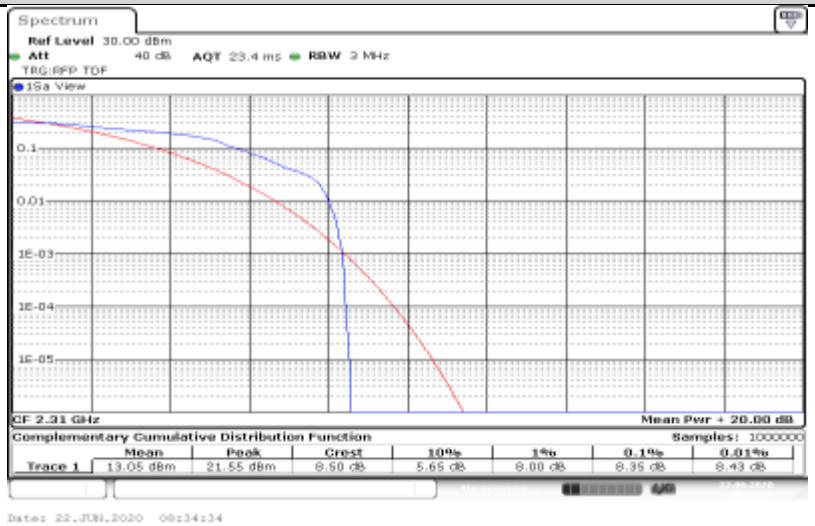
2. Peak-to-Average Ratio（CCDF）

2.1 Test Result

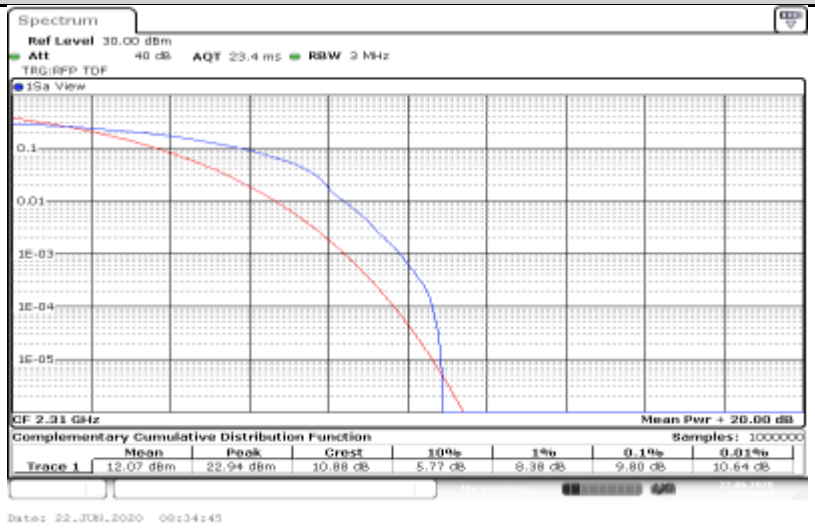
Band	Bandw idth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band40	10MHz	QPSK	38750	50RB#0	8.35	13	PASS
Band40	10MHz	16QAM	38750	50RB#0	9.80	13	PASS

2.2 Test Graphs

Band40-10MHz-QPSK-38750-50RB#0



Band40-10MHz-16QAM-38750-50RB#0



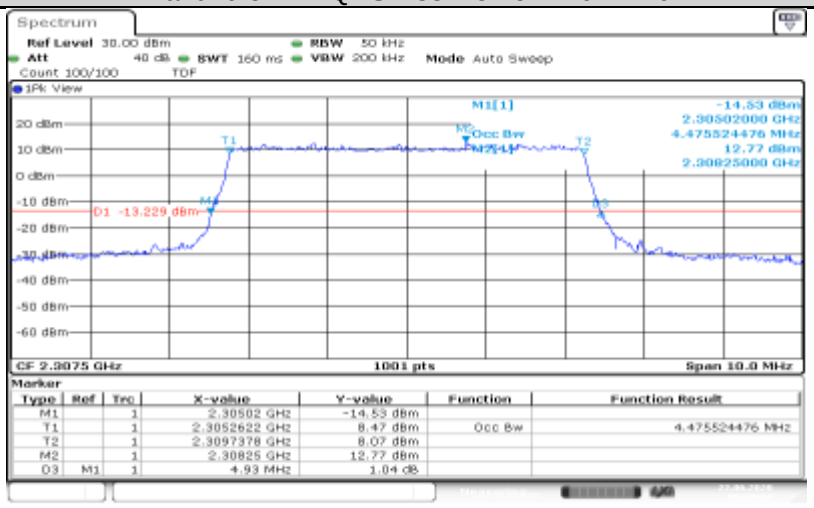
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

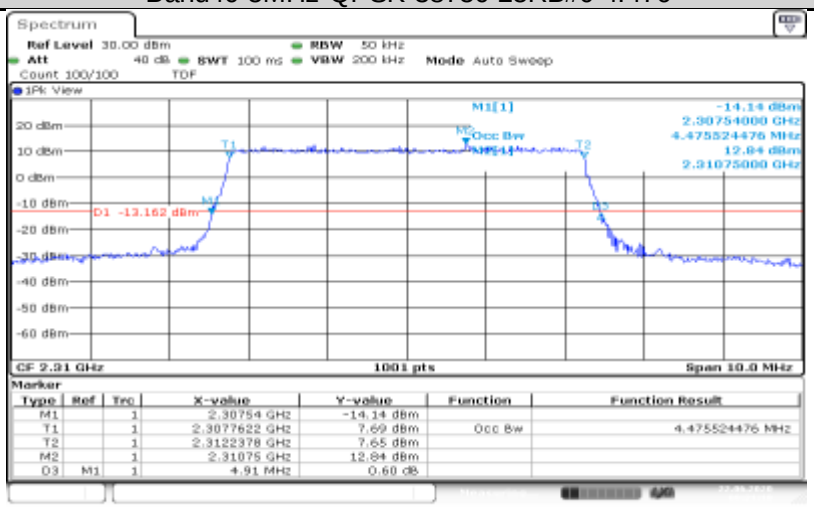
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band40	5MHz	QPSK	38725	25RB#0	4.476	4.930	PASS
Band40	5MHz	QPSK	38750	25RB#0	4.476	4.910	PASS
Band40	5MHz	QPSK	38775	25RB#0	4.466	4.860	PASS
Band40	5MHz	16QAM	38725	25RB#0	4.466	4.880	PASS
Band40	5MHz	16QAM	38750	25RB#0	4.466	4.890	PASS
Band40	5MHz	16QAM	38775	25RB#0	4.466	4.870	PASS
Band40	10MHz	QPSK	38750	50RB#0	8.952	9.633	PASS
Band40	10MHz	16QAM	38750	50RB#0	8.918	9.667	PASS

3.2 Test Graphs

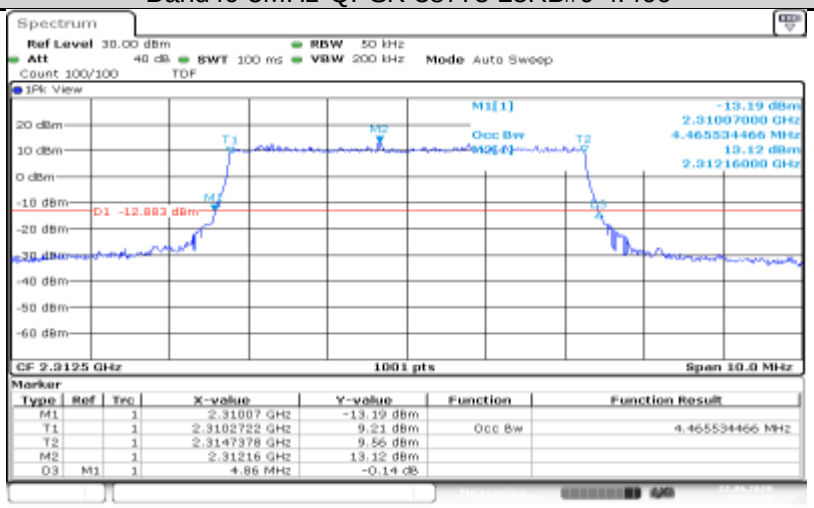
Band40-5MHz-QPSK-38725-25RB#0-4.476



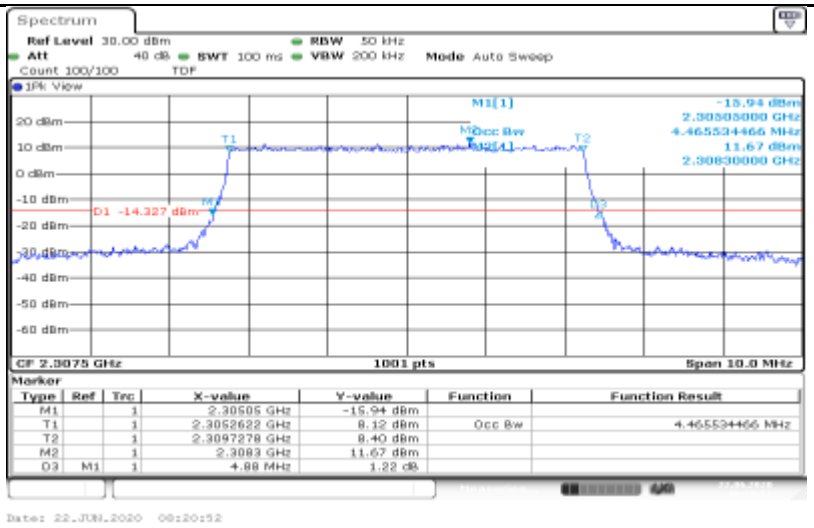
Band40-5MHz-QPSK-38750-25RB#0-4.476



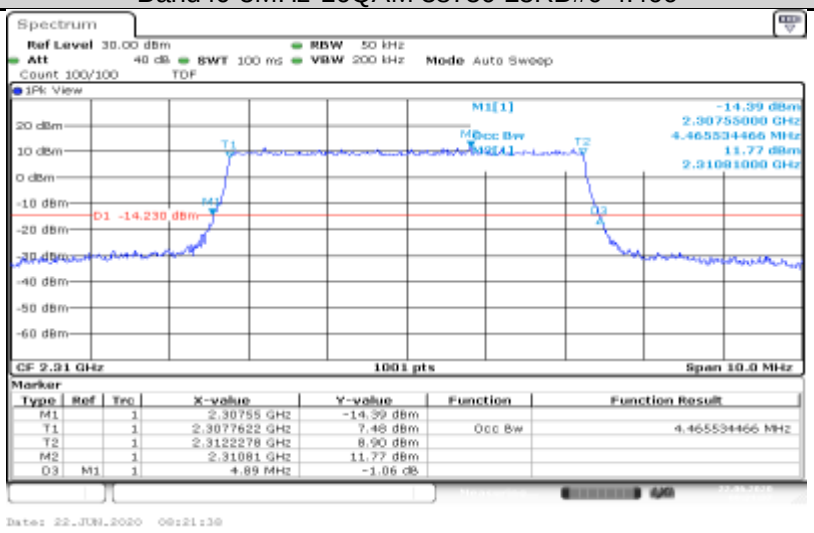
Band40-5MHz-QPSK-38775-25RB#0-4.466



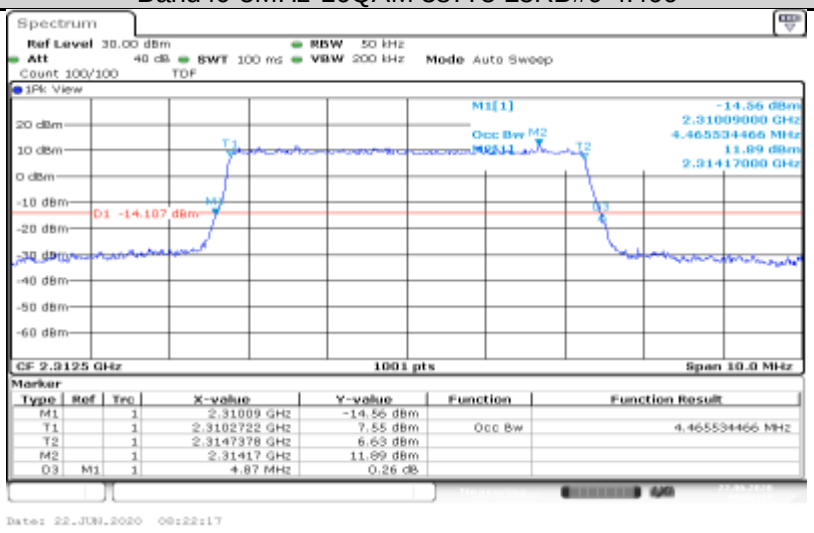
Band40-5MHz-16QAM-38725-25RB#0-4.466



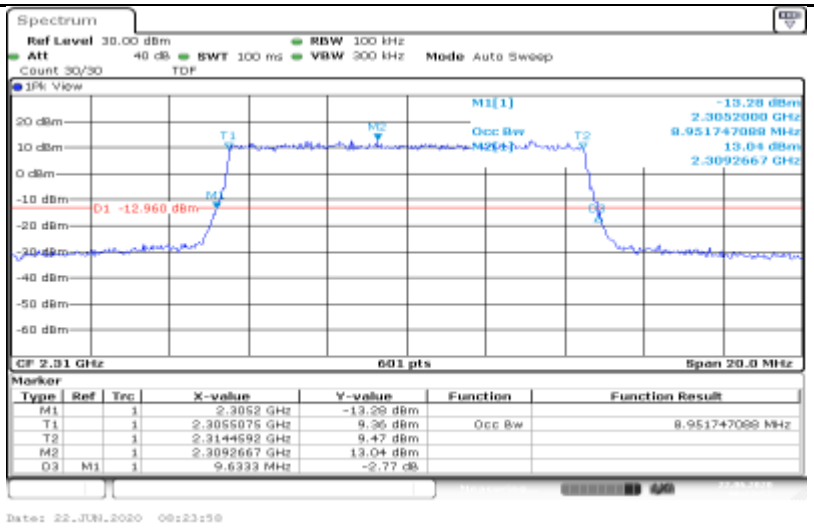
Band40-5MHz-16QAM-38750-25RB#0-4.466



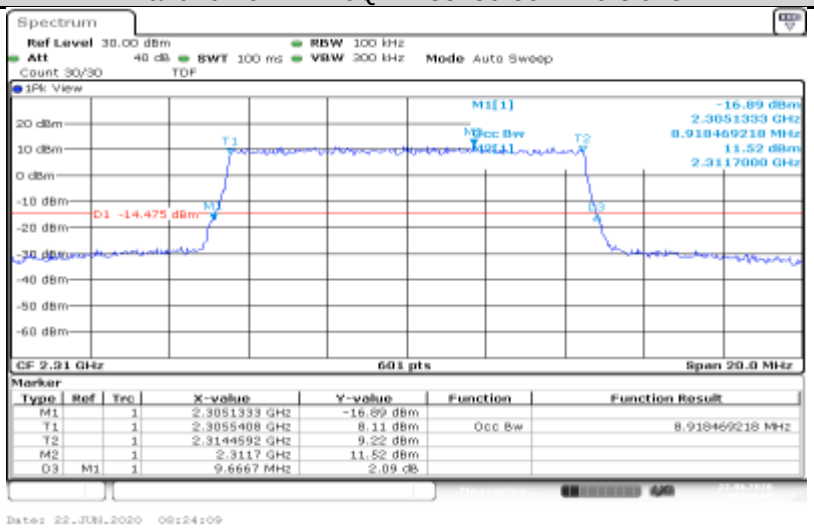
Band40-5MHz-16QAM-38775-25RB#0-4.466



Band40-10MHz-QPSK-38750-50RB#0-8.952



Band40-10MHz-16QAM-38750-50RB#0-8.918



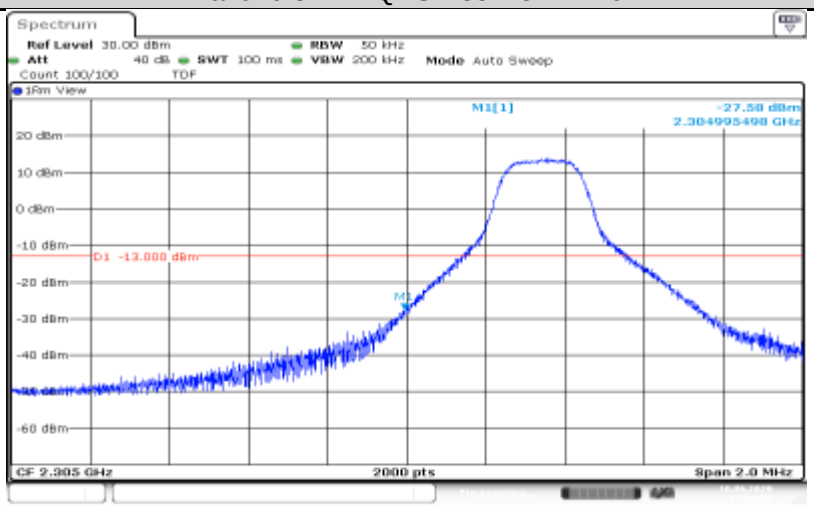
4. Band Edge

4.1 Test Result

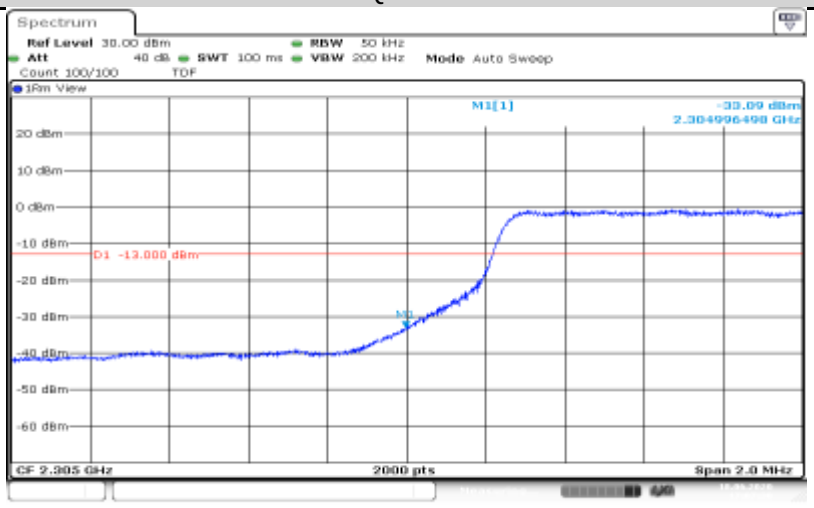
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	38725	1RB#0	-27.58	PASS
Band40	5MHz	QPSK	38725	25RB#0	-33.09	PASS
Band40	5MHz	QPSK	38775	1RB#24	-26.44	PASS
Band40	5MHz	QPSK	38775	25RB#0	-32.00	PASS
Band40	5MHz	16QAM	38725	1RB#0	-27.65	PASS
Band40	5MHz	16QAM	38725	25RB#0	-35.02	PASS
Band40	5MHz	16QAM	38775	1RB#24	-27.69	PASS
Band40	5MHz	16QAM	38775	25RB#0	-35.75	PASS
Band40	10MHz	QPSK	38750	1RB#49	-48.13,-36.31	PASS
Band40	10MHz	QPSK	38750	1RB#0	-36.70,-48.24	PASS
Band40	10MHz	QPSK	38750	50RB#0	-34.53,-35.67	PASS
Band40	10MHz	16QAM	38750	1RB#49	-48.52,-38.56	PASS
Band40	10MHz	16QAM	38750	1RB#0	-36.21,-48.43	PASS
Band40	10MHz	16QAM	38750	50RB#0	-38.23,-38.61	PASS

4.2 Test Graphs

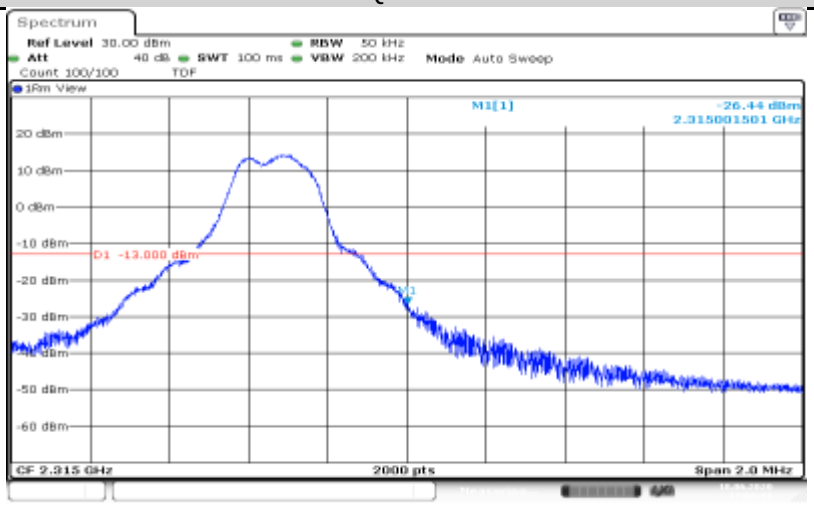
Band40-5MHz-QPSK-38725-1RB#0



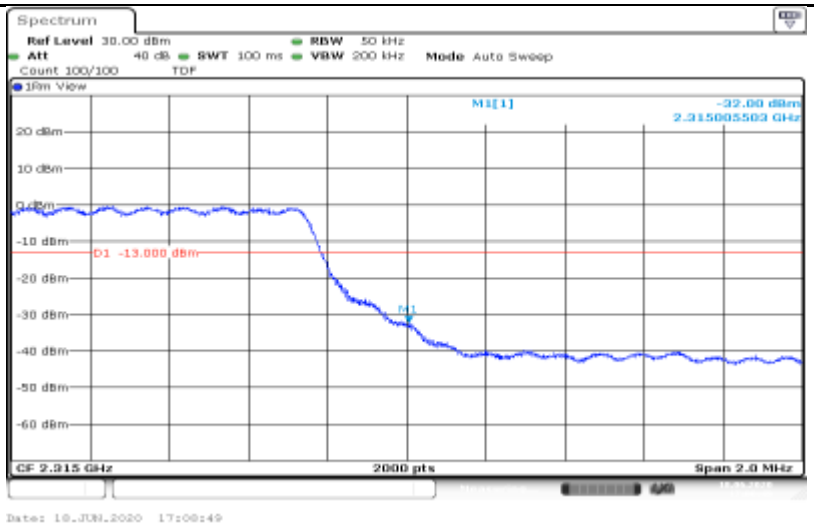
Band40-5MHz-QPSK-38725-25RB#0



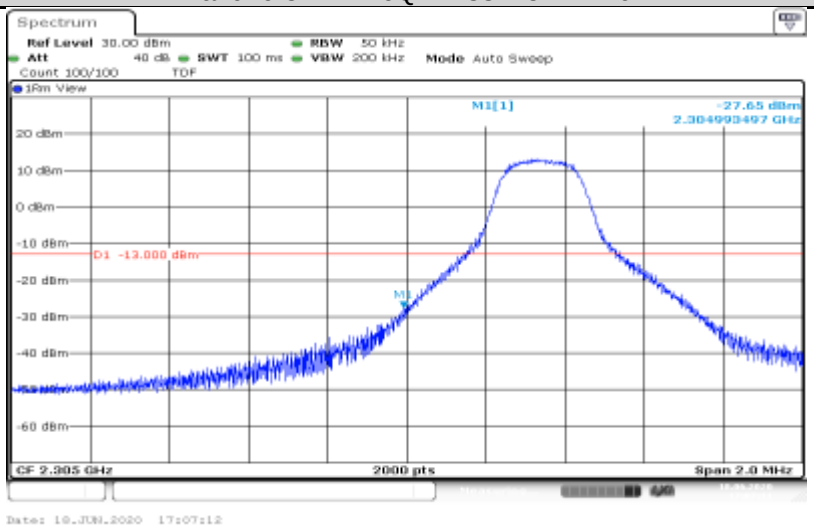
Band40-5MHz-QPSK-38775-1RB#24



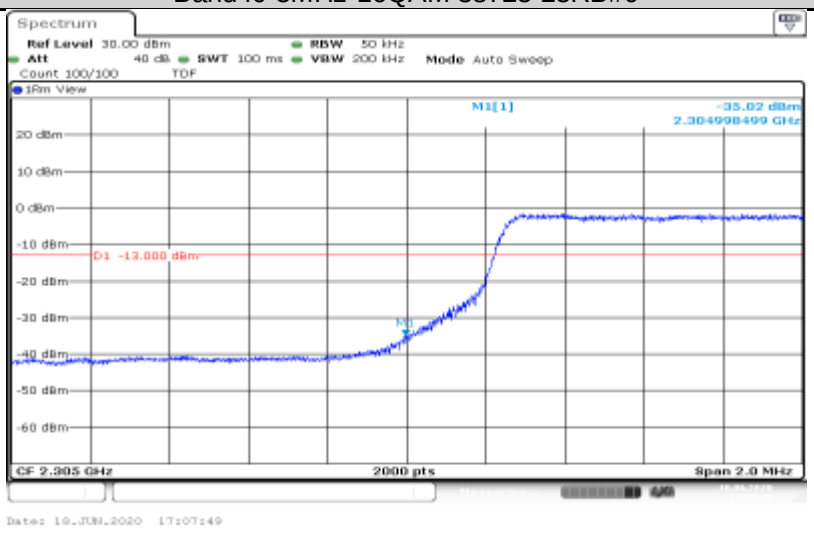
Band40-5MHz-QPSK-38775-25RB#0



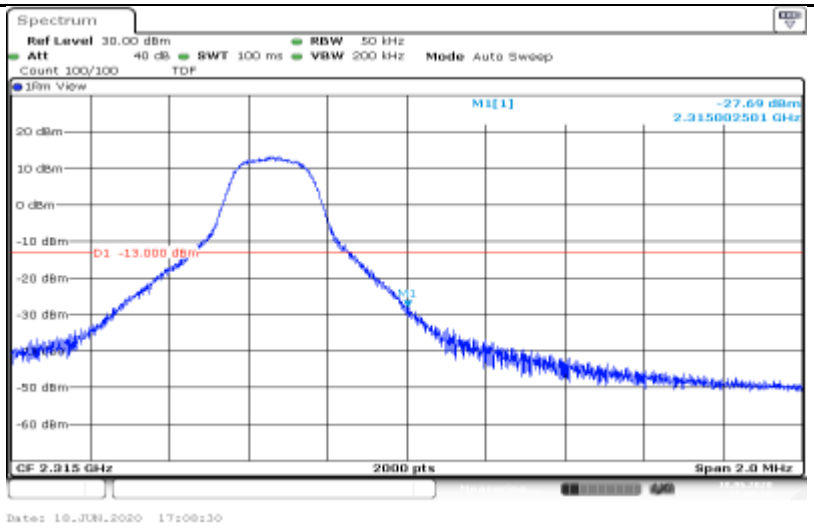
Band40-5MHz-16QAM-38725-1RB#0



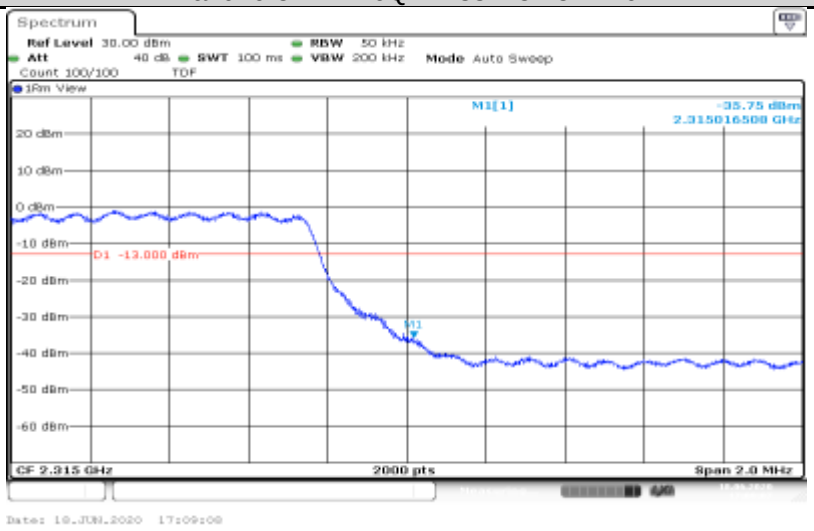
Band40-5MHz-16QAM-38725-25RB#0



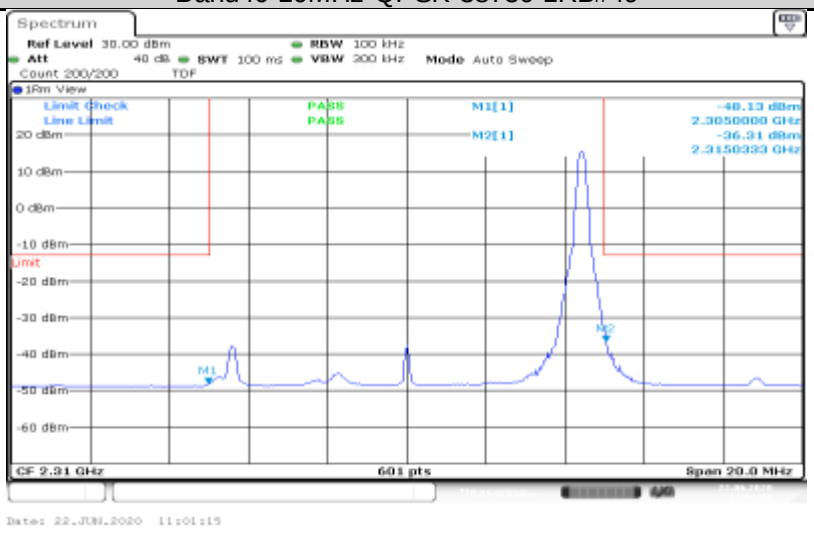
Band40-5MHz-16QAM-38775-1RB#24



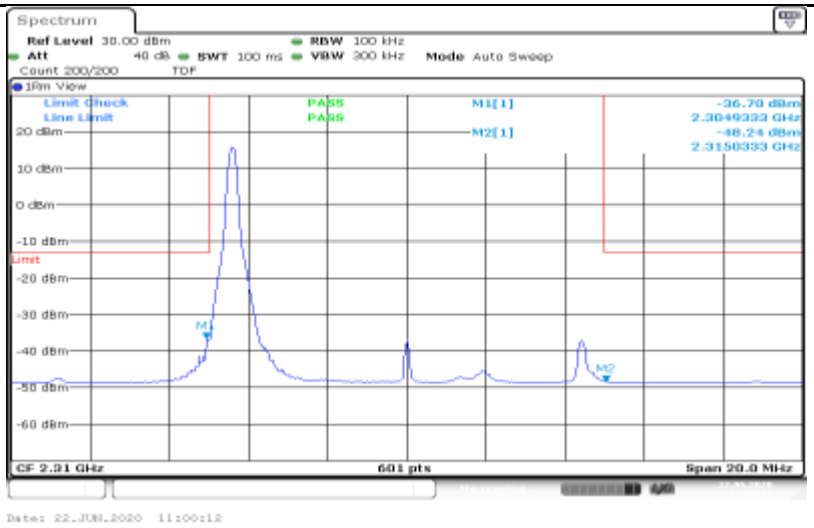
Band40-5MHz-16QAM-38775-25RB#0



Band40-10MHz-QPSK-38750-1RB#49

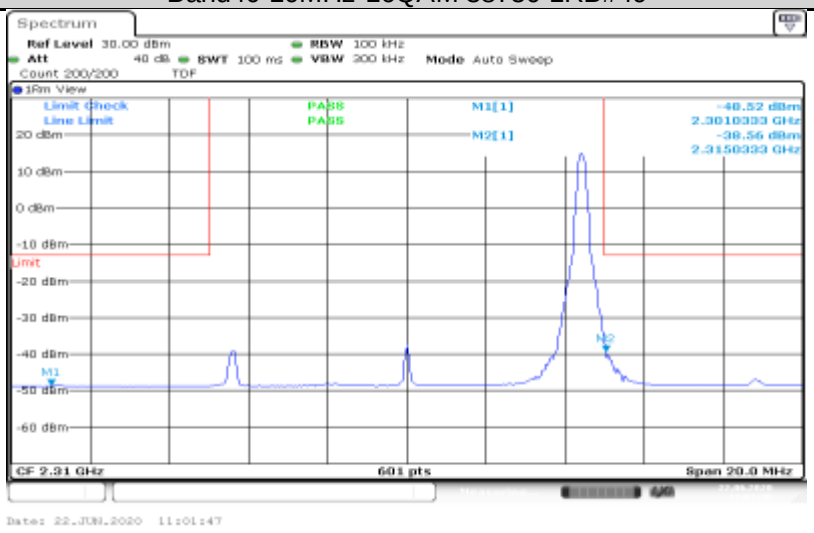


Band40-10MHz-QPSK-38750-1RB#0

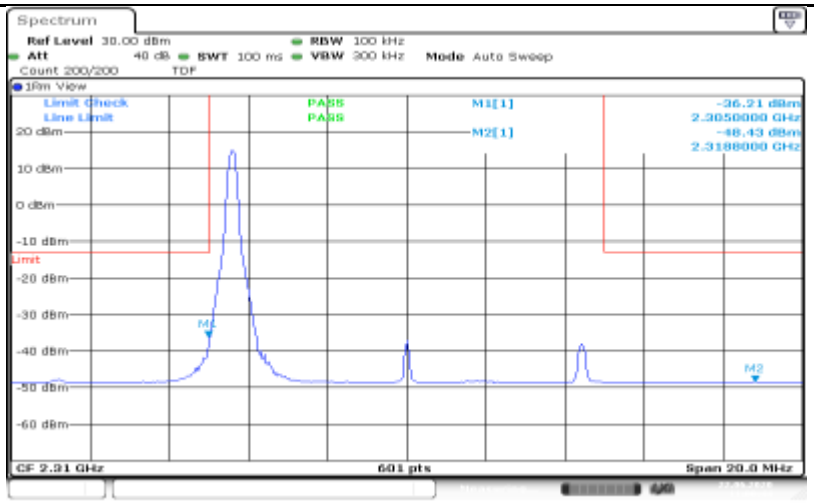


Band40-10MHz-QPSK-38750-50RB#0

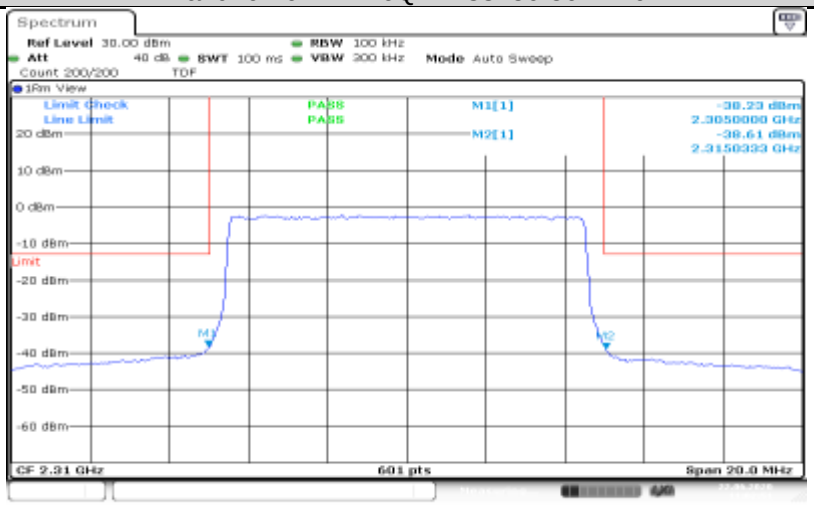
Band40-10MHz-16QAM-38750-1RB#49



Band40-10MHz-16QAM-38750-1RB#0



Band40-10MHz-16QAM-38750-50RB#0



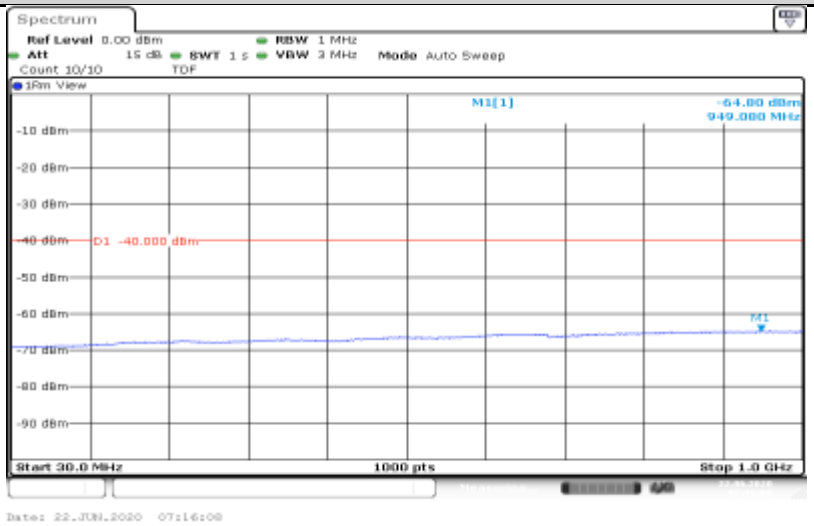
5. Conducted Spurious Emission

5.1 Test Result

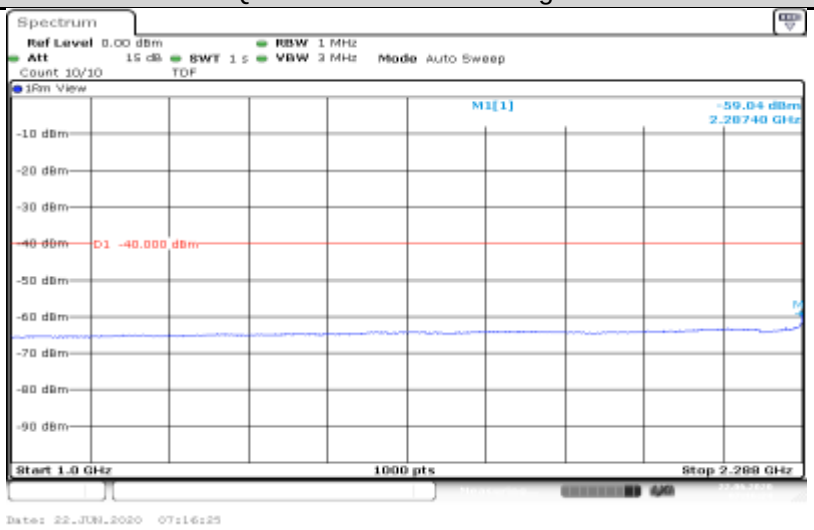
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band40	10MHz	QPSK	38750	1RB#0	Range1:30~1000MHz	-64.8	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range2:1000~2288MHz	-59.04	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range3:2288~2292MHz	-56.91	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range4:2292~2296MHz	-53.46	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range5:2296~2300MHz	-49.26	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range6:2300~2305MHz	-28.61	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range7:2320~2324MHz	-46.22	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range8:2324~2328MHz	-51.85	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range9:2328~2337MHz	-55.99	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range10:2337~2341MHz	-57.27	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range11:2341~2345MHz	-57.32	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range12:2360~2365MHz	-48.16	PASS
Band40	10MHz	QPSK	38750	1RB#0	Range13:2365~26500MHz	-42.26	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range1:30~1000MHz	-64.82	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range2:1000~2288MHz	-59.59	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range3:2288~2292MHz	-56.99	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range4:2292~2296MHz	-54.08	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range5:2296~2300MHz	-49.6	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range6:2300~2305MHz	-32.92	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range7:2320~2324MHz	-46.81	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range8:2324~2328MHz	-52.22	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range9:2328~2337MHz	-56.24	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range10:2337~2341MHz	-57.49	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range11:2341~2345MHz	-57.42	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range12:2360~2365MHz	-48.16	PASS
Band40	10MHz	16QAM	38750	1RB#0	Range13:2365~26500MHz	-42.24	PASS

5.2 Test Graphs

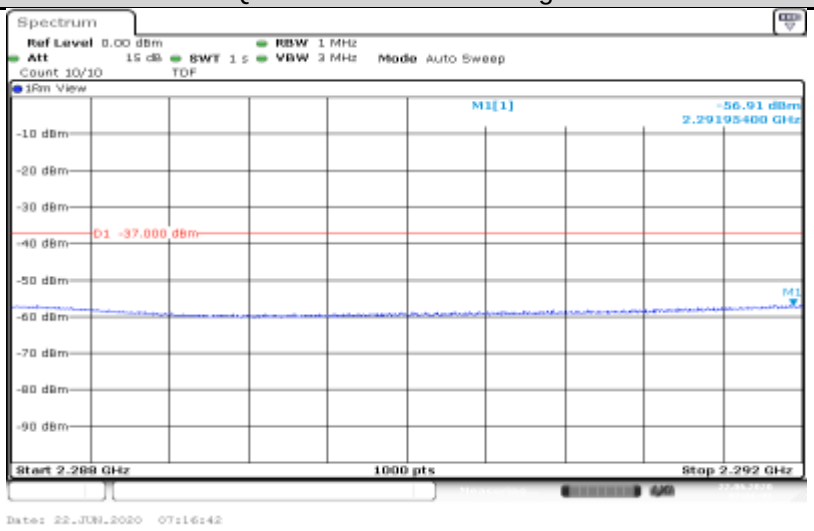
Band40-10MHz-QPSK-38750-1RB#0-Range1:30~1000MHz



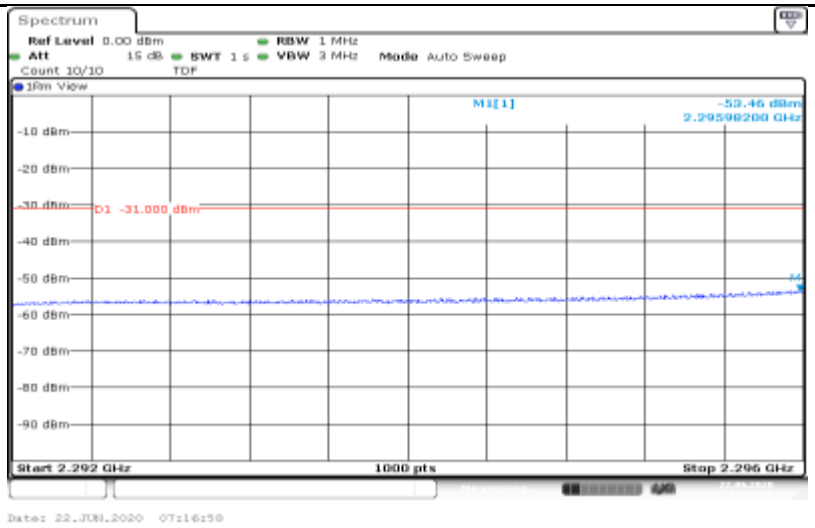
Band40-10MHz-QPSK-38750-1RB#0-Range2:1000~2288MHz



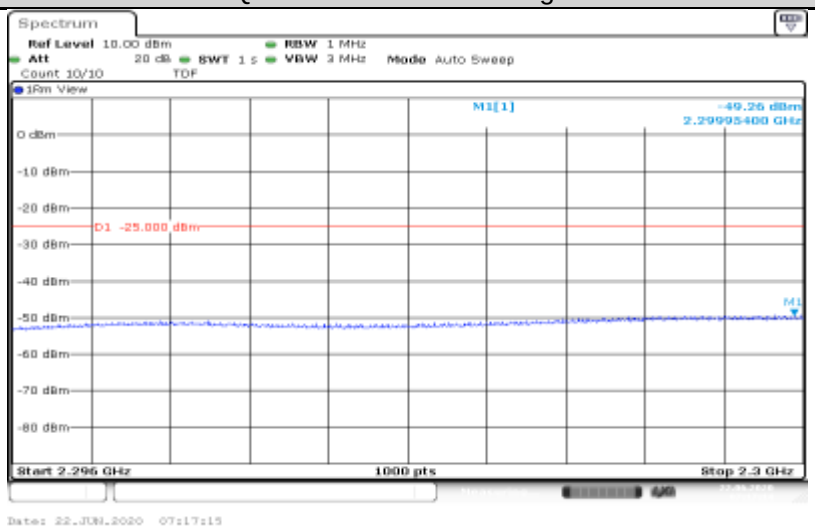
Band40-10MHz-QPSK-38750-1RB#0-Range3:2288~2292MHz



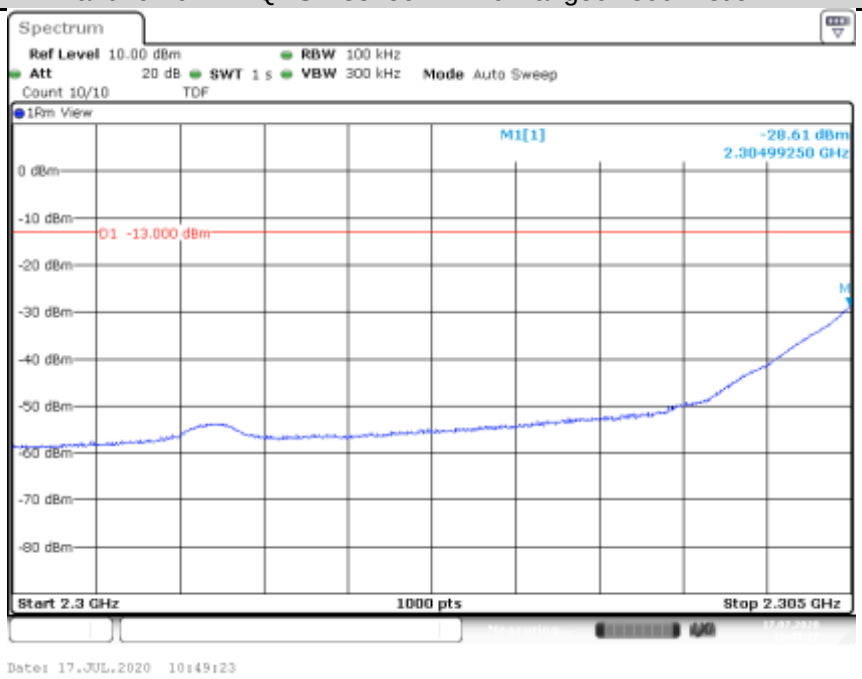
Band40-10MHz-QPSK-38750-1RB#0-Range4:2292~2296MHz



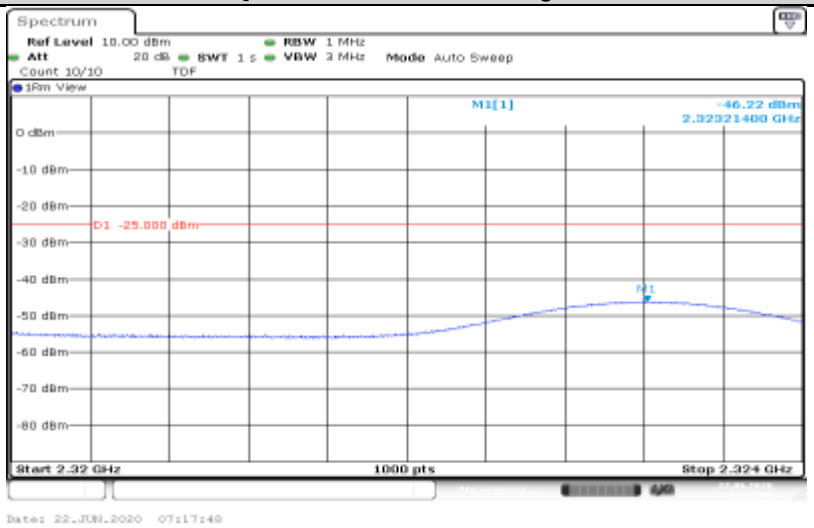
Band40-10MHz-QPSK-38750-1RB#0-Range5:2296~2300MHz



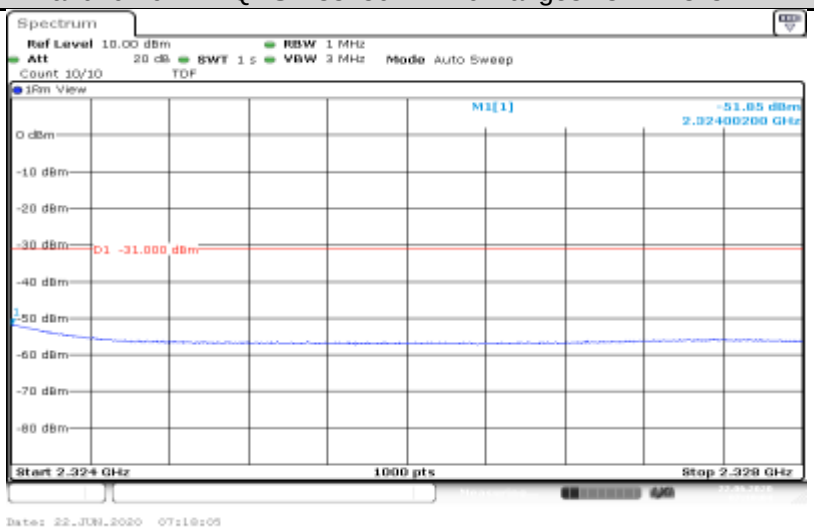
Band40-10MHz-QPSK-38750-1RB#0-Range6:2300~2305MHz



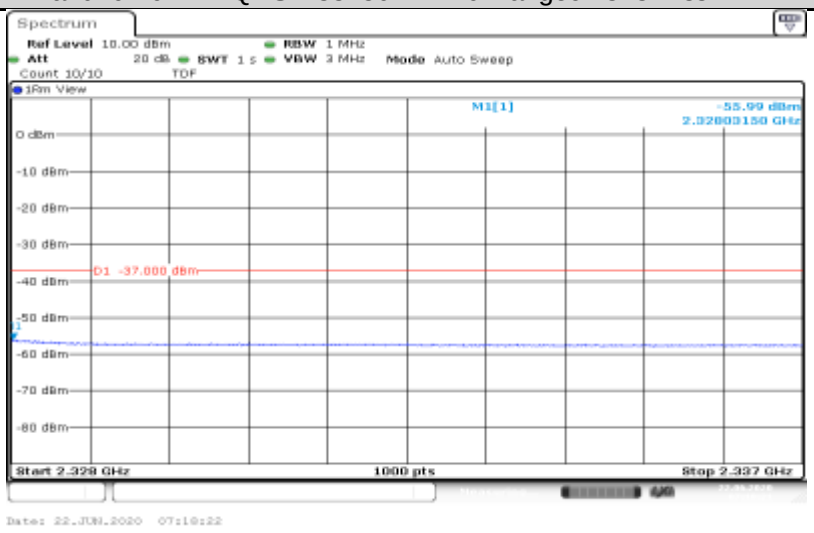
Band40-10MHz-QPSK-38750-1RB#0-Range7:2320~2324MHz



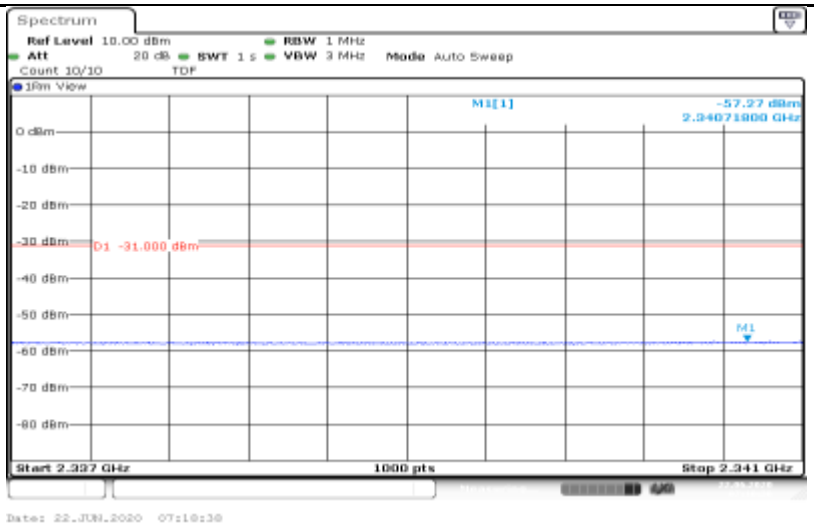
Band40-10MHz-QPSK-38750-1RB#0-Range8:2324~2328MHz



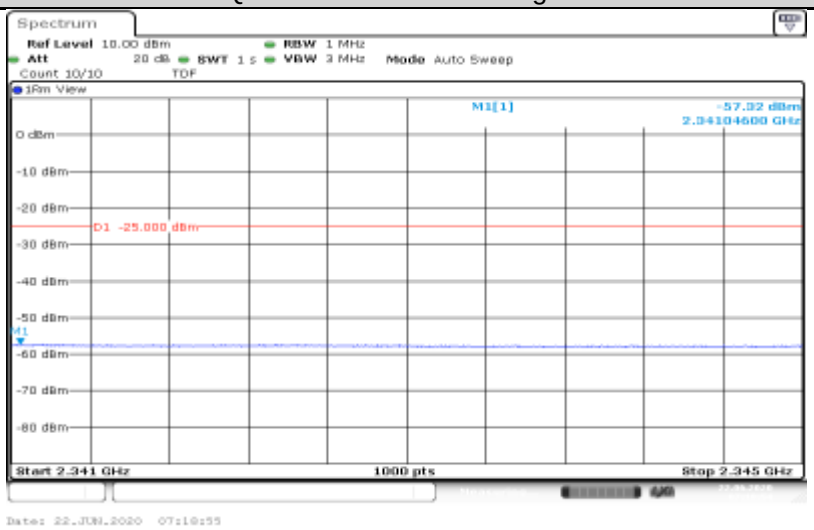
Band40-10MHz-QPSK-38750-1RB#0-Range9:2328~2337MHz



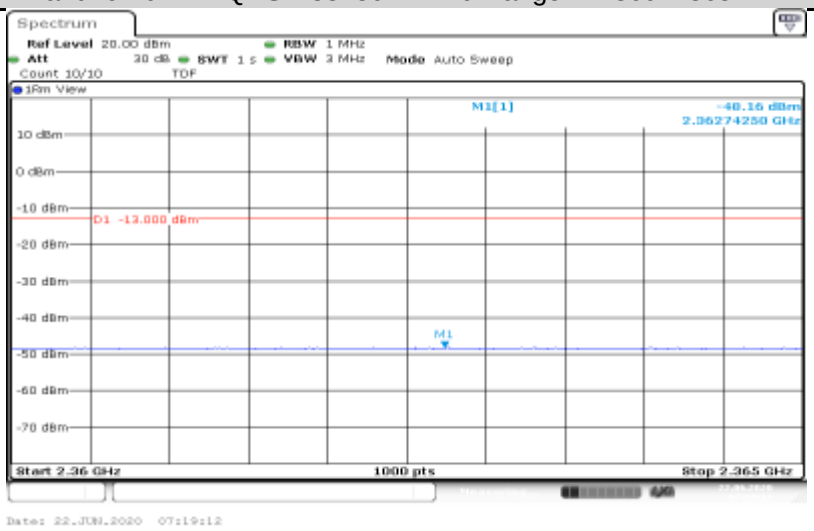
Band40-10MHz-QPSK-38750-1RB#0-Range10:2337~2341MHz



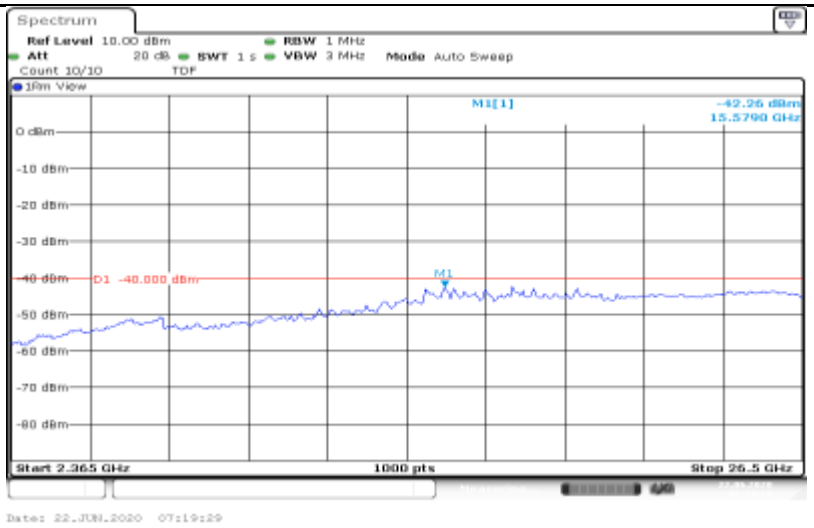
Band40-10MHz-QPSK-38750-1RB#0-Range11:2341~2345MHz



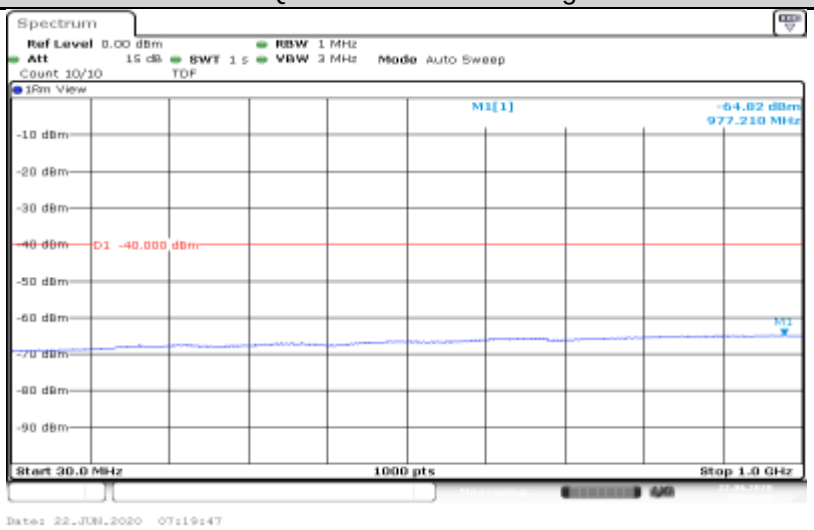
Band40-10MHz-QPSK-38750-1RB#0-Range12:2360~2365MHz



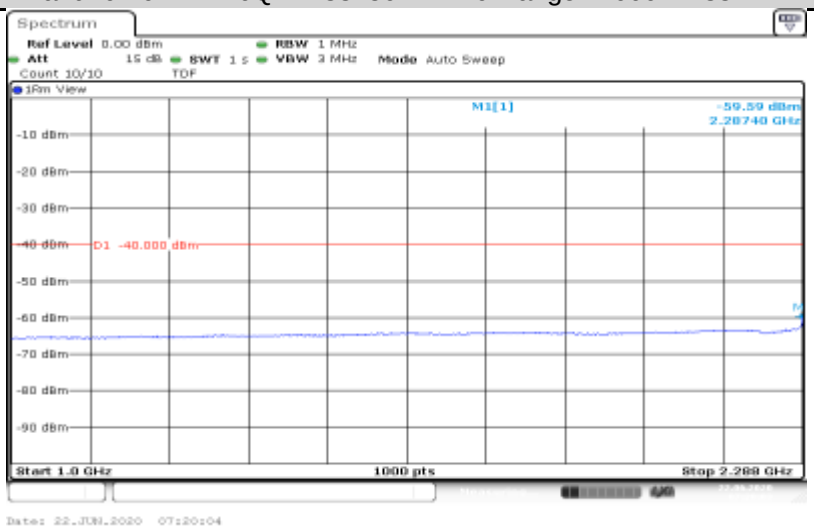
Band40-10MHz-QPSK-38750-1RB#0-Range13:2365~26500MHz



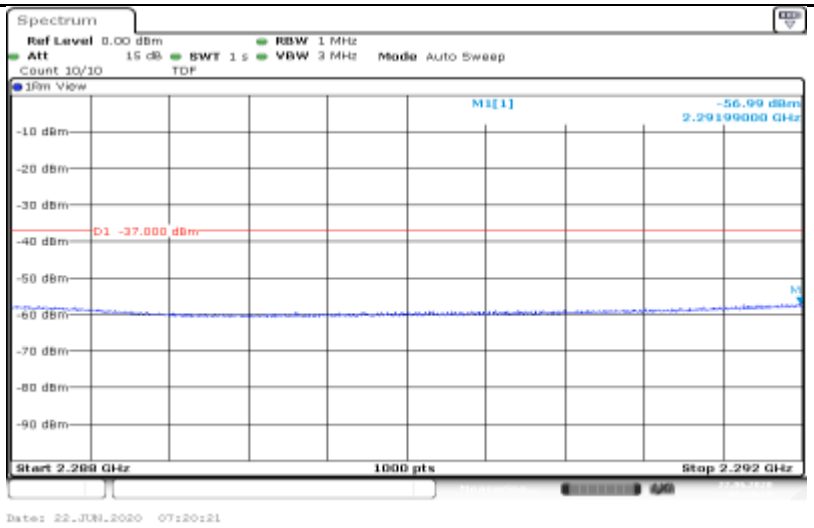
Band40-10MHz-16QAM-38750-1RB#0-Range1:30~1000MHz



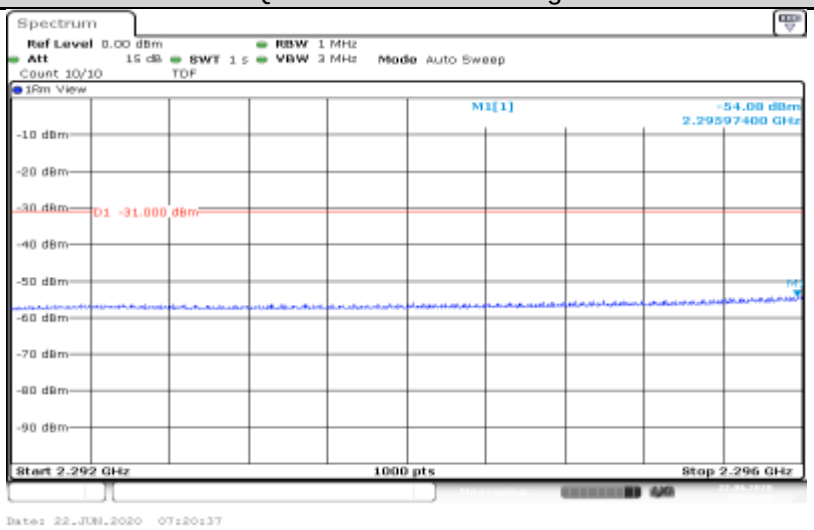
Band40-10MHz-16QAM-38750-1RB#0-Range2:1000~2288MHz



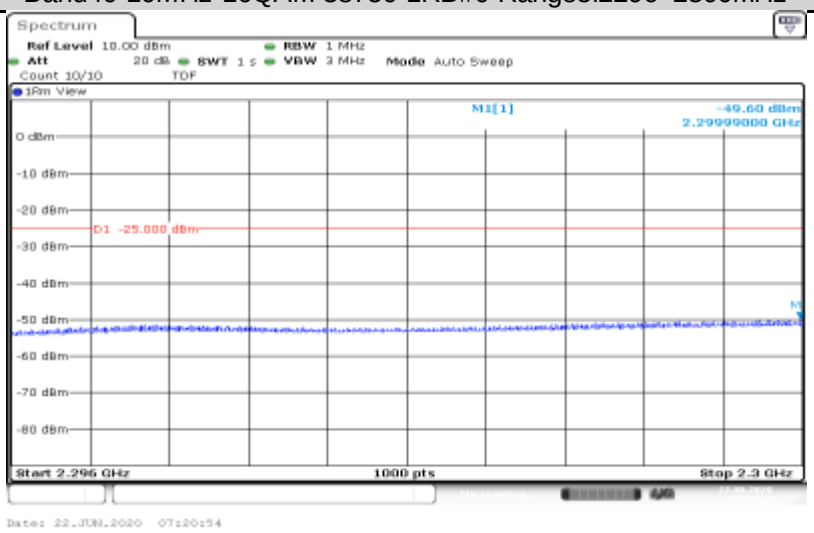
Band40-10MHz-16QAM-38750-1RB#0-Range3:2288~2292MHz



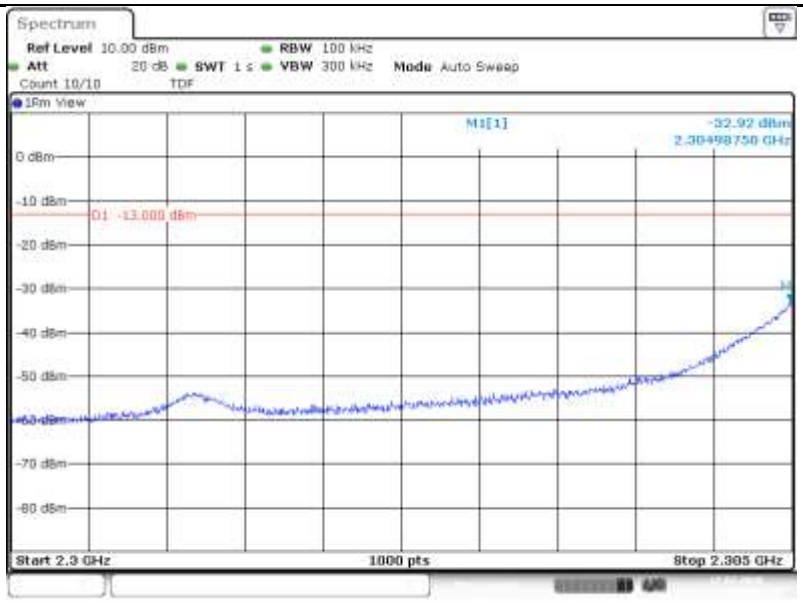
Band40-10MHz-16QAM-38750-1RB#0-Range4:2292~2296MHz



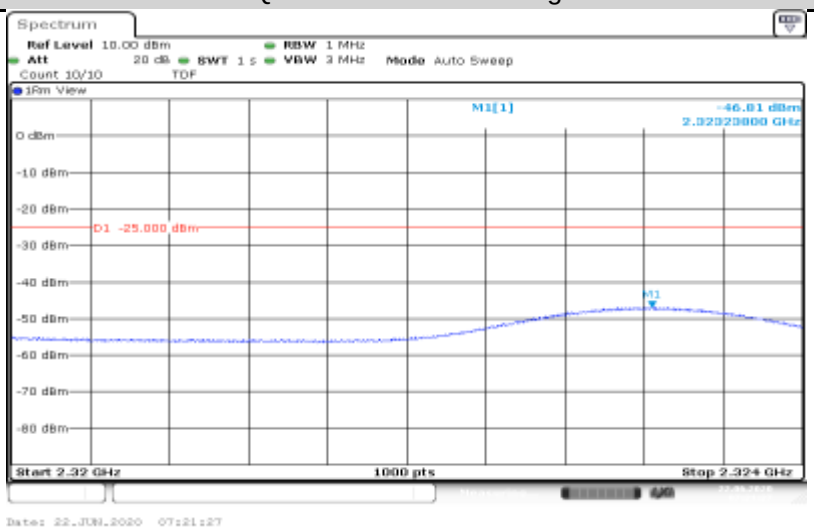
Band40-10MHz-16QAM-38750-1RB#0-Range5:2296~2300MHz



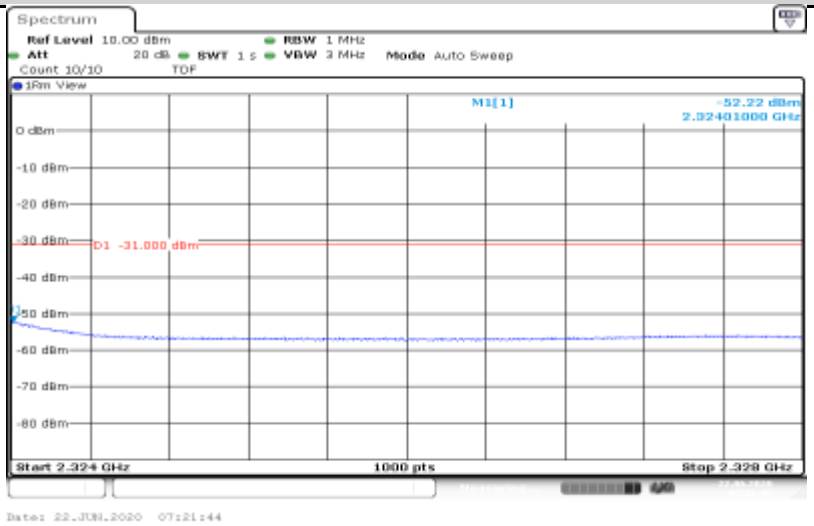
Band40-10MHz-16QAM-38750-1RB#0-Range6:2300~2305MHz



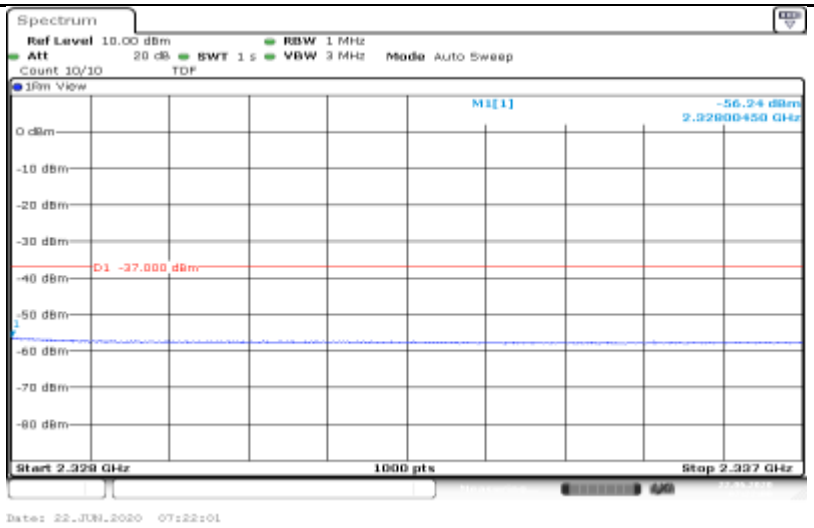
Band40-10MHz-16QAM-38750-1RB#0-Range7:2320~2324MHz



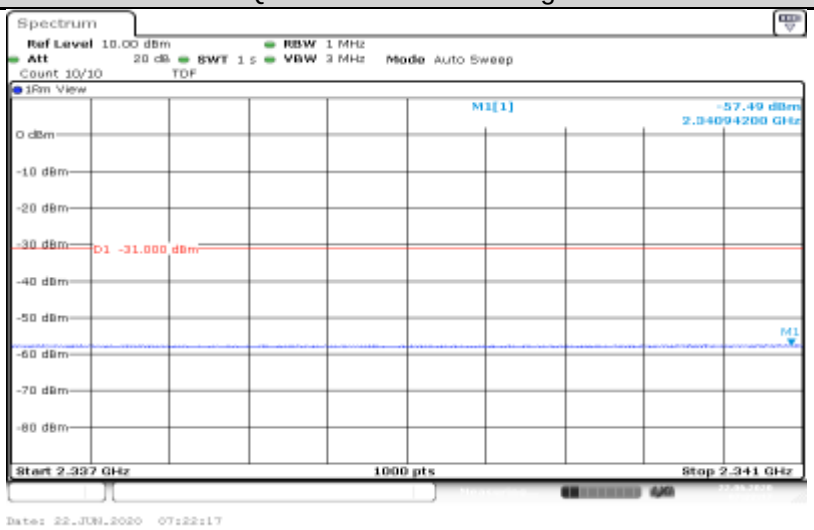
Band40-10MHz-16QAM-38750-1RB#0-Range8:2324~2328MHz



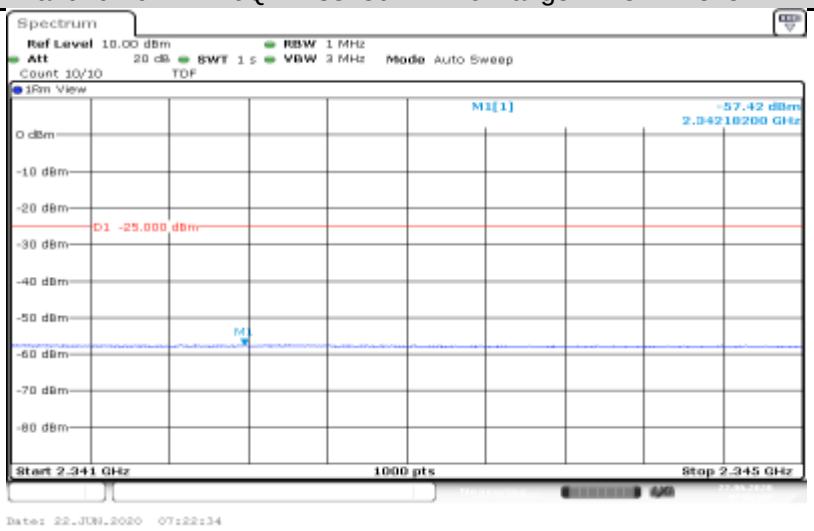
Band40-10MHz-16QAM-38750-1RB#0-Range9:2328~2337MHz



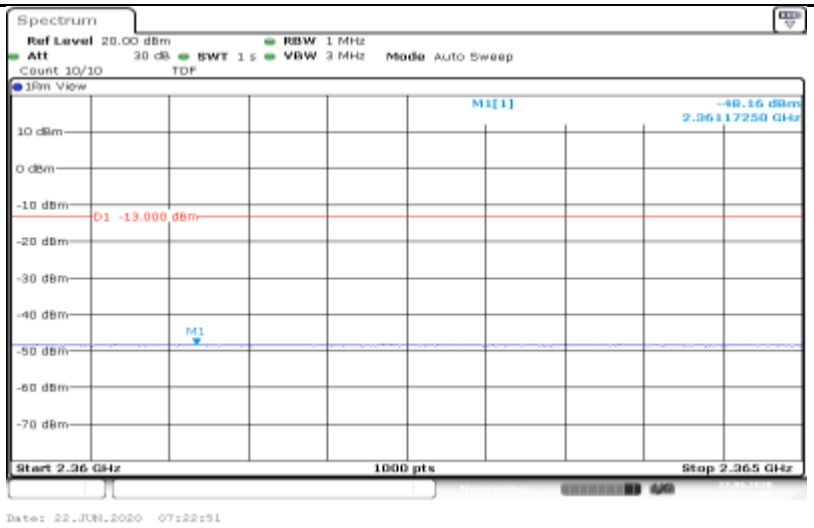
Band40-10MHz-16QAM-38750-1RB#0-Range10:2337~2341MHz



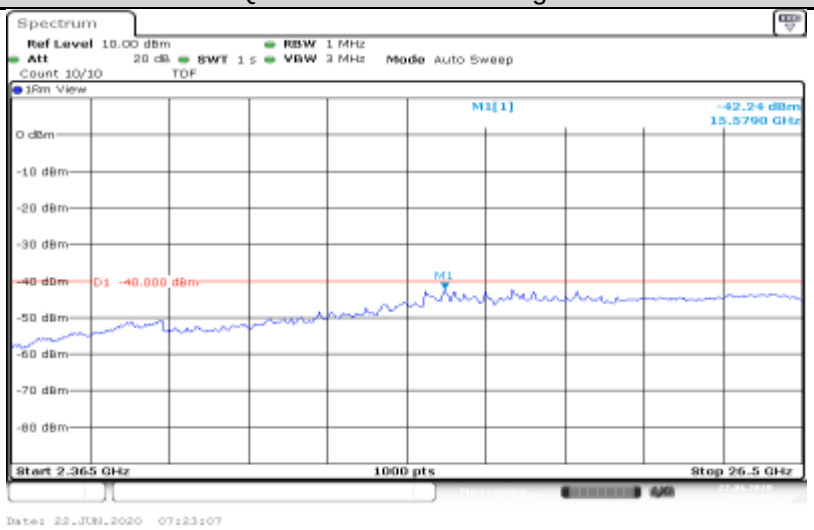
Band40-10MHz-16QAM-38750-1RB#0-Range11:2341~2345MHz



Band40-10MHz-16QAM-38750-1RB#0-Range12:2360~2365MHz



Band40-10MHz-16QAM-38750-1RB#0-Range13:2365~26500MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	10MHz	QPSK	38750	50RB#0	VL	NT	15.84	0.006857	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	VN	NT	15.16	0.006563	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	VH	NT	22.34	0.009671	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	VL	NT	6.27	0.002714	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	VN	NT	18.53	0.008022	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	VH	NT	10.31	0.004463	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	10MHz	QPSK	38750	50RB#0	NV	-30	6.68	0.002892	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	NV	-20	10.03	0.004342	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	NV	0	15.35	0.006645	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	NV	10	-3.46	-0.001498	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	NV	20	10.40	0.004502	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	NV	30	19.34	0.008372	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	NV	40	21.23	0.009190	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	NV	50	11.84	0.005126	±2.5	PASS
Band40	10MHz	QPSK	38750	50RB#0	NV	55	18.15	0.007857	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	-30	20.26	0.008771	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	-20	10.84	0.004693	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	0	20.30	0.008788	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	10	19.86	0.008597	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	20	14.19	0.006143	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	30	8.34	0.003610	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	40	18.51	0.008013	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	50	13.39	0.005797	±2.5	PASS
Band40	10MHz	16QAM	38750	50RB#0	NV	55	5.22	0.002260	±2.5	PASS

Appendix P: Test Results of LTE Band 40 operation_Part 2

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6.1 Test Result 26

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	39175	1RB#12	22.93	PASS
Band40	5MHz	QPSK	39175	1RB#24	22.79	PASS
Band40	5MHz	QPSK	39175	1RB#0	22.70	PASS
Band40	5MHz	QPSK	39175	12RB#0	21.69	PASS
Band40	5MHz	QPSK	39175	12RB#6	21.69	PASS
Band40	5MHz	QPSK	39175	12RB#13	21.73	PASS
Band40	5MHz	QPSK	39175	25RB#0	21.68	PASS
Band40	5MHz	QPSK	39200	1RB#0	22.71	PASS
Band40	5MHz	QPSK	39200	1RB#12	22.73	PASS
Band40	5MHz	QPSK	39200	1RB#24	22.75	PASS
Band40	5MHz	QPSK	39200	12RB#0	21.70	PASS
Band40	5MHz	QPSK	39200	12RB#6	21.70	PASS
Band40	5MHz	QPSK	39200	12RB#13	21.67	PASS
Band40	5MHz	QPSK	39200	25RB#0	21.67	PASS
Band40	5MHz	QPSK	39225	1RB#24	22.73	PASS
Band40	5MHz	QPSK	39225	1RB#0	22.71	PASS
Band40	5MHz	QPSK	39225	1RB#12	22.85	PASS
Band40	5MHz	QPSK	39225	12RB#6	21.70	PASS
Band40	5MHz	QPSK	39225	12RB#0	21.67	PASS
Band40	5MHz	QPSK	39225	12RB#13	21.70	PASS
Band40	5MHz	QPSK	39225	25RB#0	21.63	PASS
Band40	5MHz	16QAM	39175	1RB#12	21.89	PASS
Band40	5MHz	16QAM	39175	1RB#0	21.68	PASS
Band40	5MHz	16QAM	39175	1RB#24	21.76	PASS
Band40	5MHz	16QAM	39175	12RB#13	20.80	PASS
Band40	5MHz	16QAM	39175	12RB#6	20.72	PASS
Band40	5MHz	16QAM	39175	12RB#0	20.73	PASS
Band40	5MHz	16QAM	39175	25RB#0	20.75	PASS
Band40	5MHz	16QAM	39200	1RB#0	21.86	PASS
Band40	5MHz	16QAM	39200	1RB#12	21.91	PASS
Band40	5MHz	16QAM	39200	1RB#24	21.89	PASS
Band40	5MHz	16QAM	39200	12RB#0	20.83	PASS

Band40	5MHz	16QAM	39200	12RB#6	20.83	PASS
Band40	5MHz	16QAM	39200	12RB#13	20.80	PASS
Band40	5MHz	16QAM	39200	25RB#0	20.73	PASS
Band40	5MHz	16QAM	39225	1RB#0	21.71	PASS
Band40	5MHz	16QAM	39225	1RB#12	21.81	PASS
Band40	5MHz	16QAM	39225	1RB#24	21.72	PASS
Band40	5MHz	16QAM	39225	12RB#13	20.81	PASS
Band40	5MHz	16QAM	39225	12RB#0	20.74	PASS
Band40	5MHz	16QAM	39225	12RB#6	20.78	PASS
Band40	5MHz	16QAM	39225	25RB#0	20.74	PASS
Band40	10MHz	QPSK	39200	1RB#49	22.83	PASS
Band40	10MHz	QPSK	39200	1RB#24	22.79	PASS
Band40	10MHz	QPSK	39200	1RB#0	22.73	PASS
Band40	10MHz	QPSK	39200	25RB#0	21.70	PASS
Band40	10MHz	QPSK	39200	25RB#12	21.69	PASS
Band40	10MHz	QPSK	39200	25RB#25	21.74	PASS
Band40	10MHz	QPSK	39200	50RB#0	21.75	PASS
Band40	10MHz	16QAM	39200	1RB#49	21.65	PASS
Band40	10MHz	16QAM	39200	1RB#0	21.64	PASS
Band40	10MHz	16QAM	39200	1RB#24	21.64	PASS
Band40	10MHz	16QAM	39200	25RB#0	20.81	PASS
Band40	10MHz	16QAM	39200	25RB#12	20.79	PASS
Band40	10MHz	16QAM	39200	25RB#25	20.84	PASS
Band40	10MHz	16QAM	39200	50RB#0	20.84	PASS

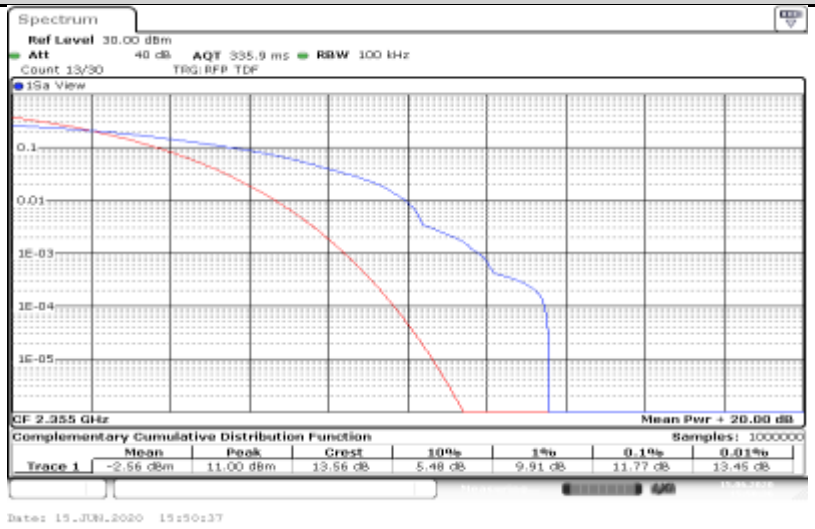
2. Peak-to-Average Ratio（CCDF）

2.1 Test Result

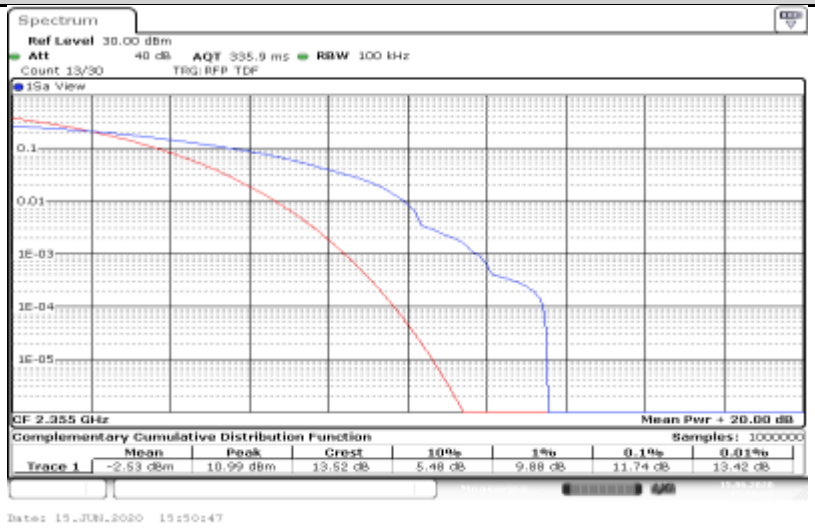
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band40	10MHz	QPSK	39200	50RB#0	11.77	13	PASS
Band40	10MHz	16QAM	39200	50RB#0	11.74	13	PASS

2.2 Test Graphs

Band40-10MHz-QPSK-39200-50RB#0



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



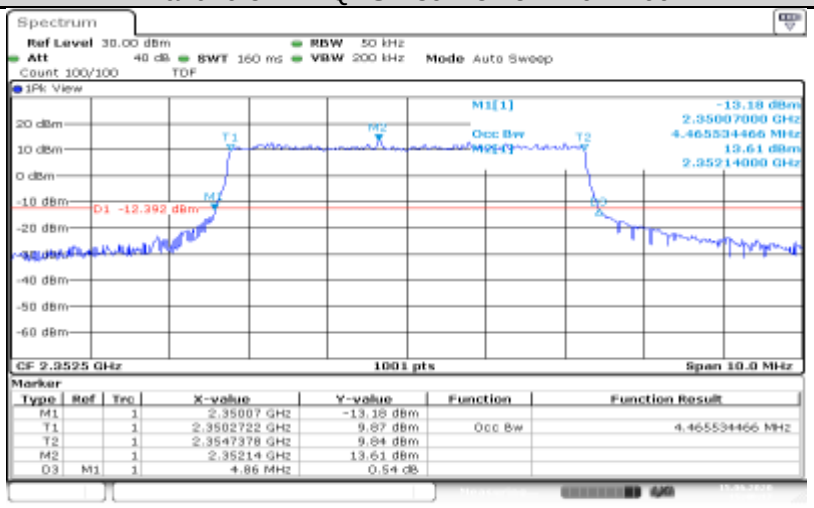
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

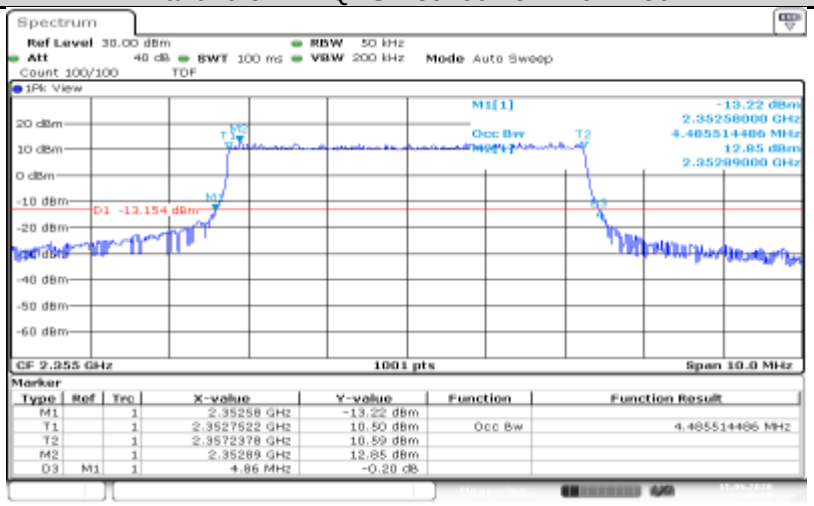
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band40	5MHz	QPSK	39175	25RB#0	4.466	4.860	PASS
Band40	5MHz	QPSK	39200	25RB#0	4.486	4.860	PASS
Band40	5MHz	QPSK	39225	25RB#0	4.476	5.000	PASS
Band40	5MHz	16QAM	39175	25RB#0	4.476	4.890	PASS
Band40	5MHz	16QAM	39200	25RB#0	4.466	4.860	PASS
Band40	5MHz	16QAM	39225	25RB#0	4.466	4.890	PASS
Band40	10MHz	QPSK	39200	50RB#0	8.918	9.633	PASS
Band40	10MHz	16QAM	39200	50RB#0	8.918	9.667	PASS

3.2 Test Graphs

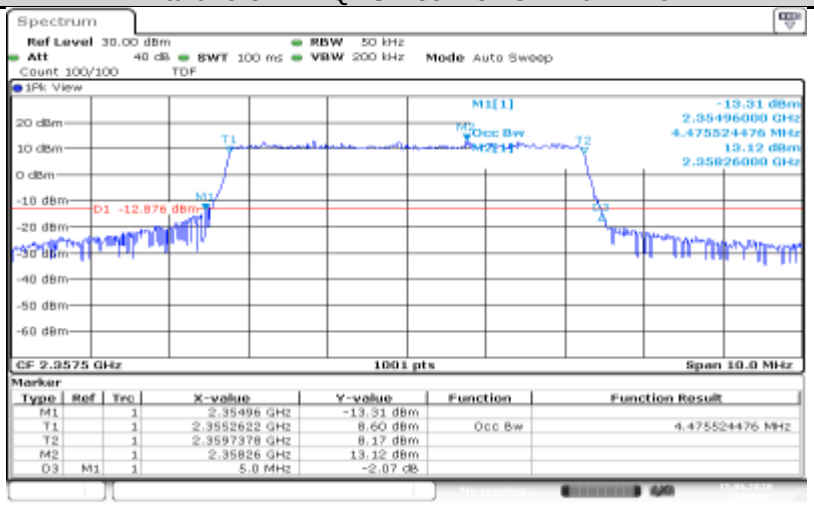
Band40-5MHz-QPSK-39175-25RB#0-4.466



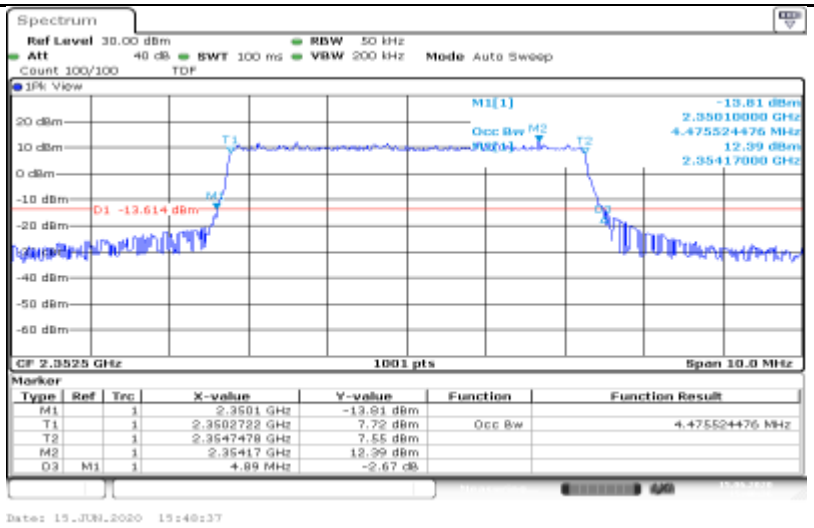
Band40-5MHz-QPSK-39200-25RB#0-4.486



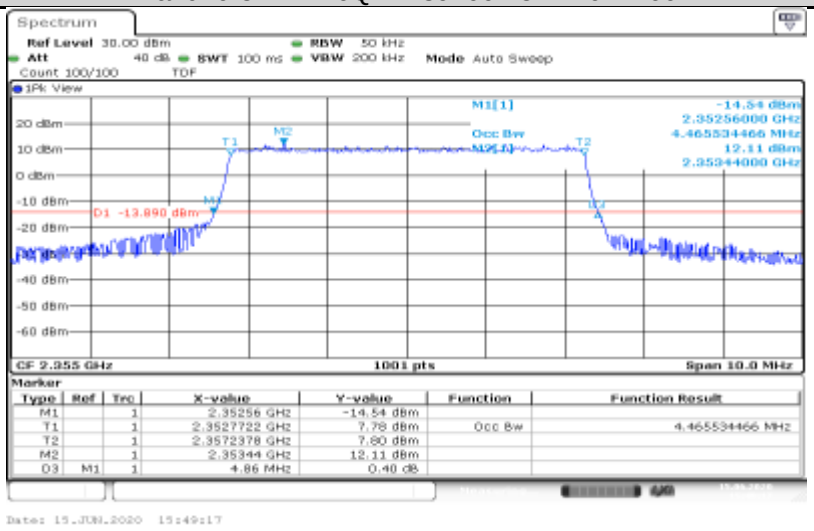
Band40-5MHz-QPSK-39225-25RB#0-4.476



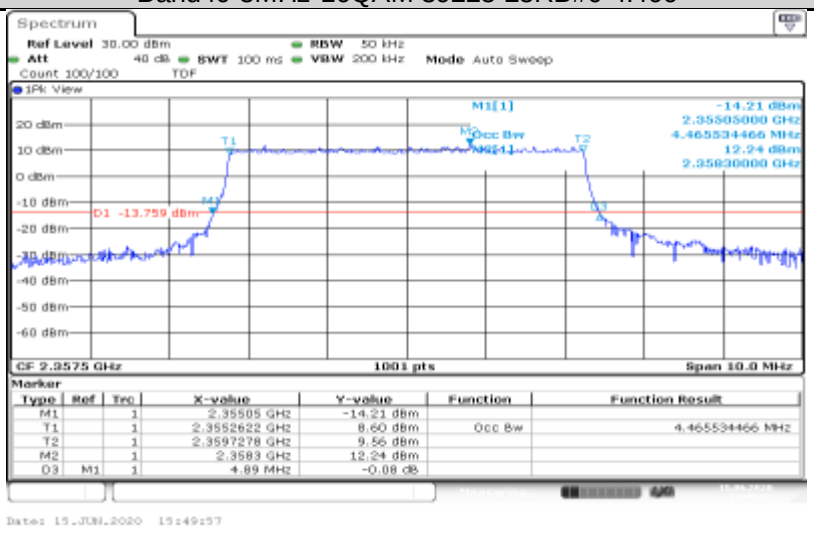
Band40-5MHz-16QAM-39175-25RB#0-4.476



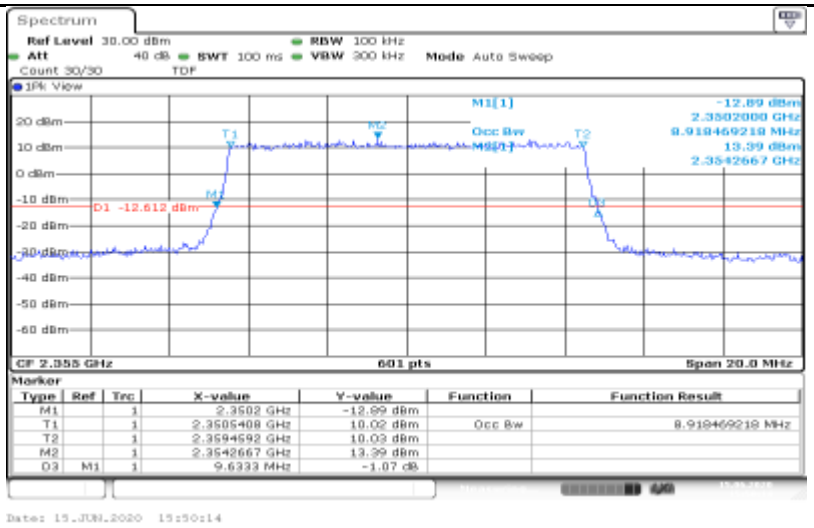
Band40-5MHz-16QAM-39200-25RB#0-4.466



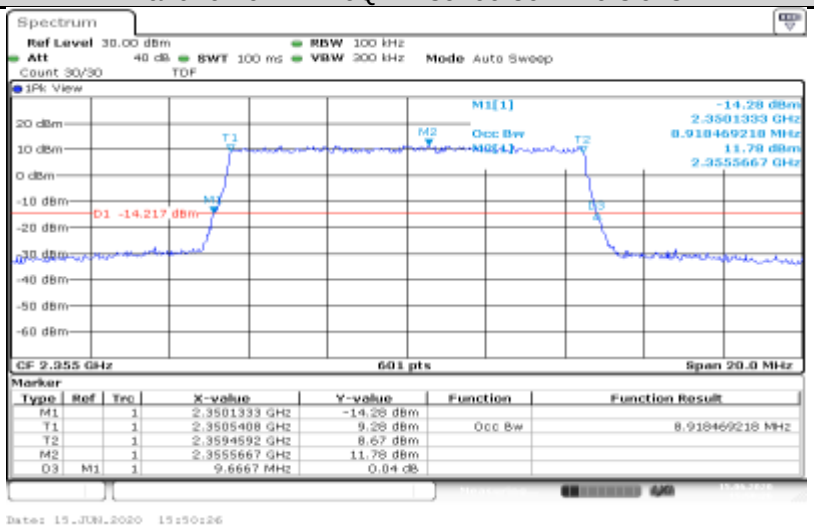
Band40-5MHz-16QAM-39225-25RB#0-4.466



Band40-10MHz-QPSK-39200-50RB#0-8.918



Band40-10MHz-16QAM-39200-50RB#0-8.918



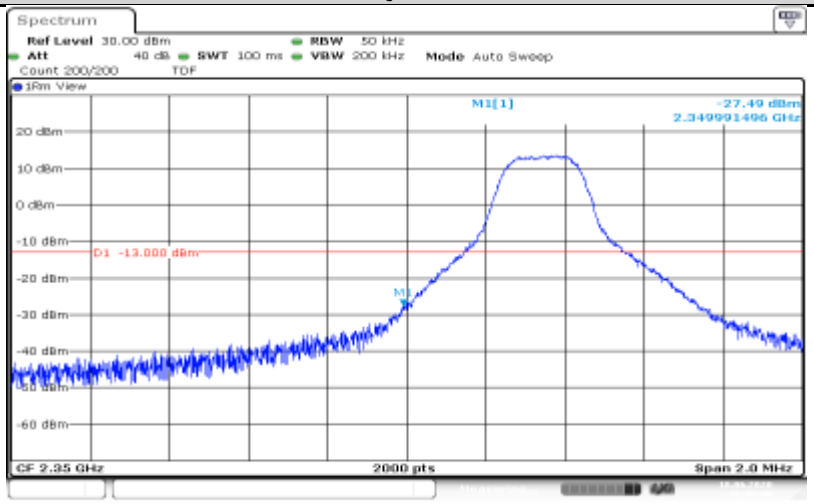
4. Band Edge

4.1 Test Result

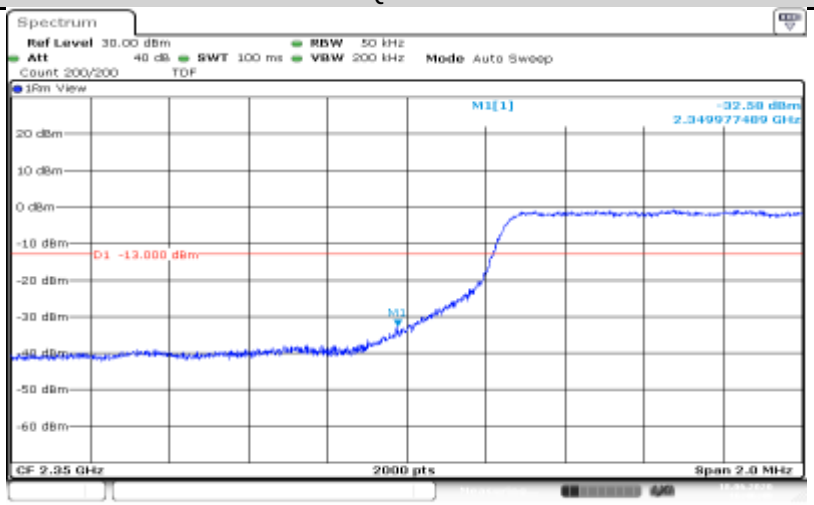
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band40	5MHz	QPSK	39175	1RB#0	-27.49	PASS
Band40	5MHz	QPSK	39175	25RB#0	-32.58	PASS
Band40	5MHz	QPSK	39225	1RB#24	-25.86	PASS
Band40	5MHz	QPSK	39225	25RB#0	-33.51	PASS
Band40	5MHz	16QAM	39175	1RB#0	-26.22	PASS
Band40	5MHz	16QAM	39175	25RB#0	-36.11	PASS
Band40	5MHz	16QAM	39225	1RB#24	-26.99	PASS
Band40	5MHz	16QAM	39225	25RB#0	-35.29	PASS
Band40	10MHz	QPSK	39200	1RB#49	-47.98,-32.96	PASS
Band40	10MHz	QPSK	39200	1RB#0	-35.47,-47.93	PASS
Band40	10MHz	QPSK	39200	50RB#0	-35.00,-35.54	PASS
Band40	10MHz	16QAM	39200	1RB#49	-48.07,-35.64	PASS
Band40	10MHz	16QAM	39200	1RB#0	-37.68,-48.12	PASS
Band40	10MHz	16QAM	39200	50RB#0	-39.08,-39.43	PASS

4.2 Test Graphs

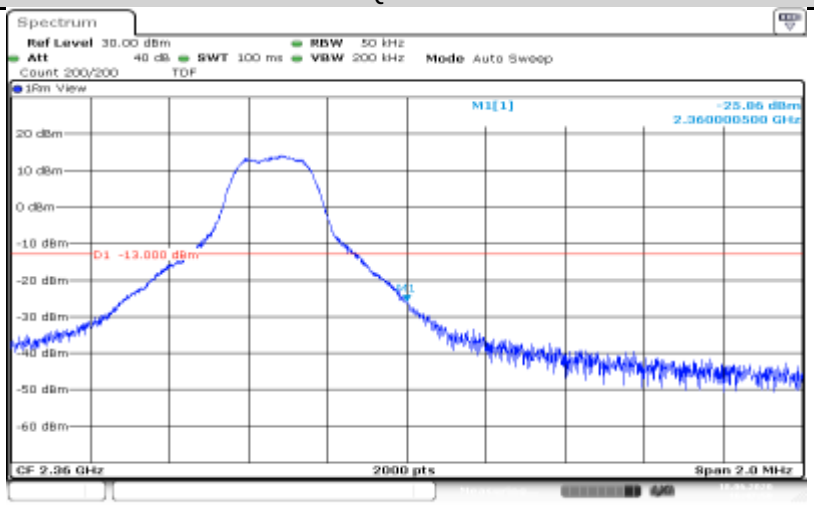
Band40-5MHz-QPSK-39175-1RB#0



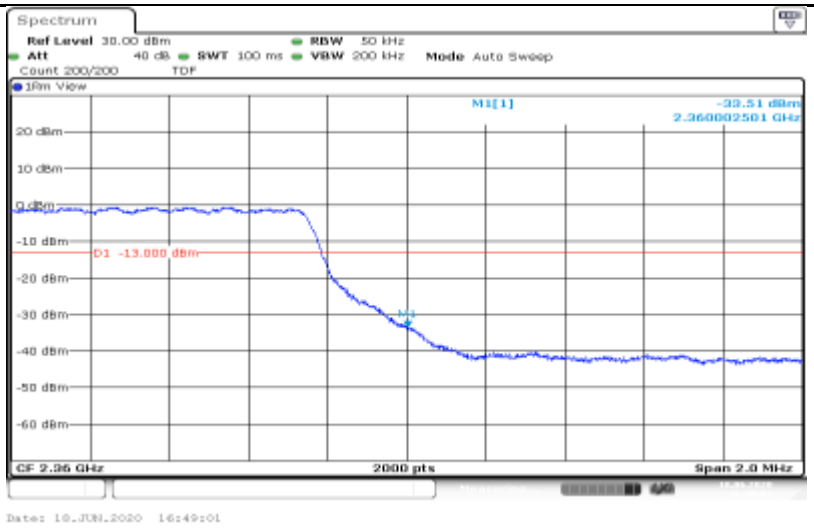
Band40-5MHz-QPSK-39175-25RB#0



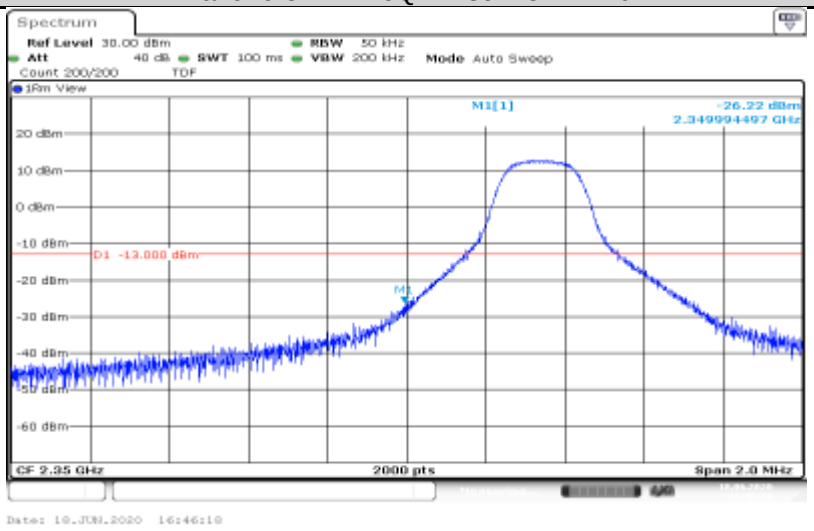
Band40-5MHz-QPSK-39225-1RB#24



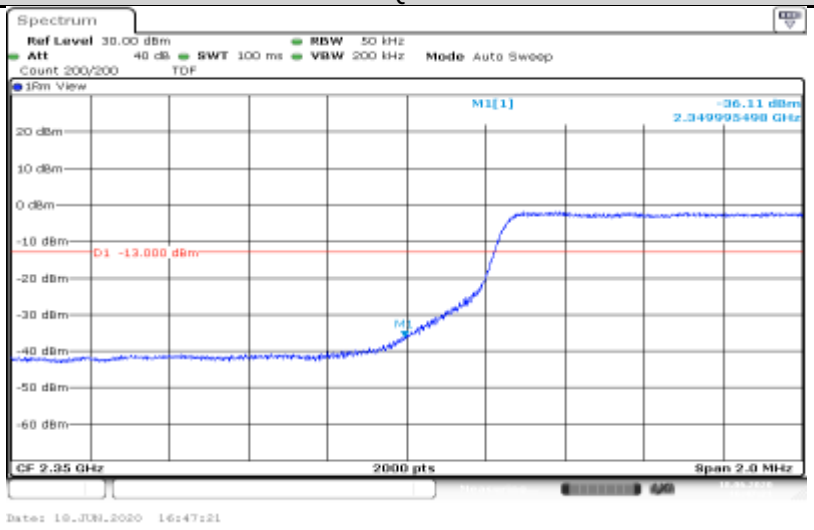
Band40-5MHz-QPSK-39225-25RB#0



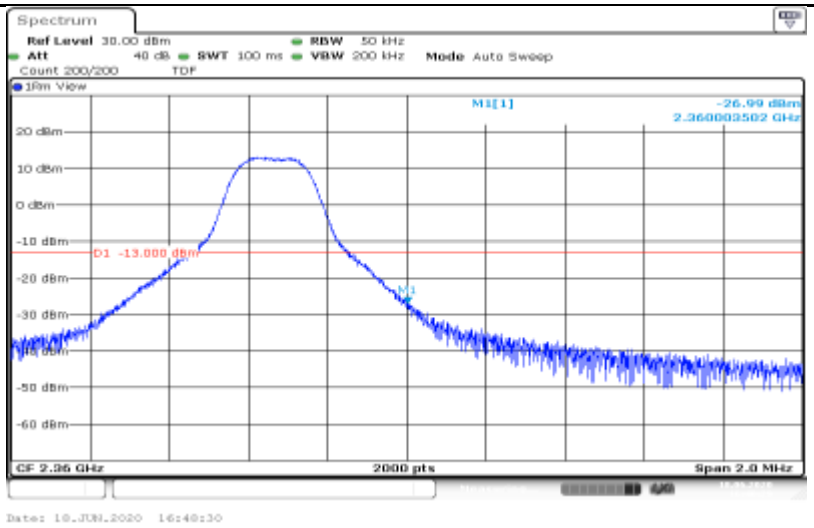
Band40-5MHz-16QAM-39175-1RB#0



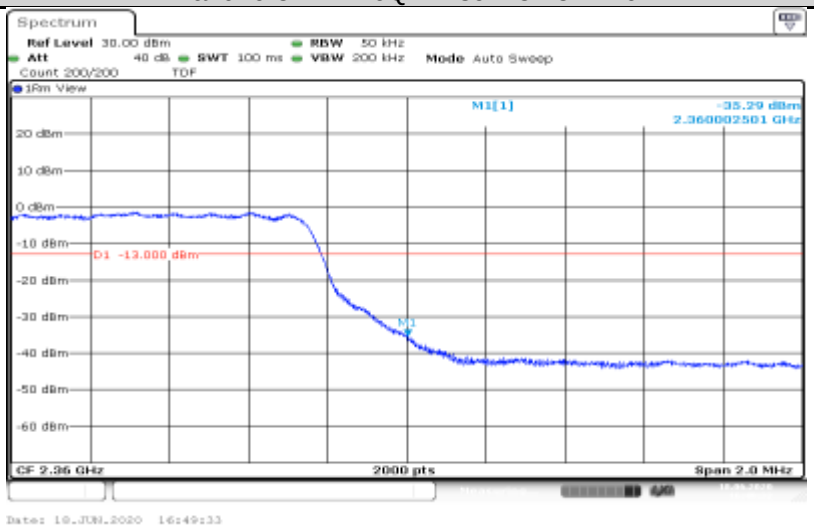
Band40-5MHz-16QAM-39175-25RB#0



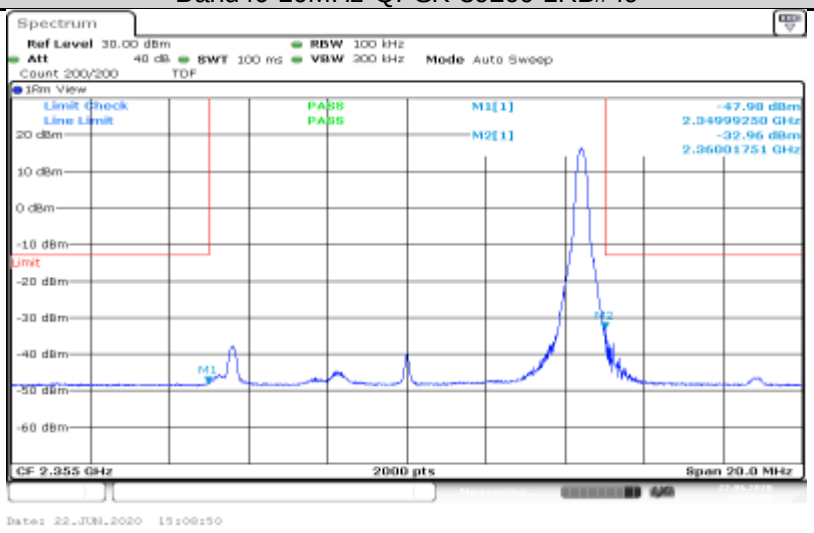
Band40-5MHz-16QAM-39225-1RB#24



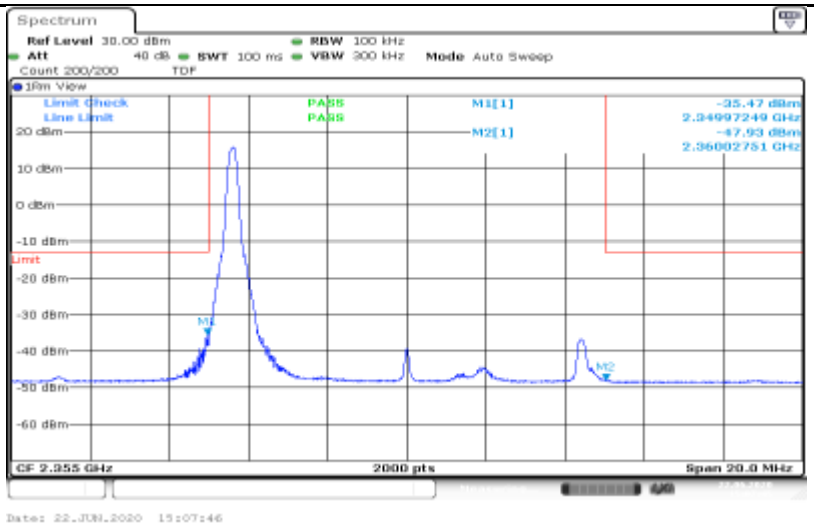
Band40-5MHz-16QAM-39225-25RB#0



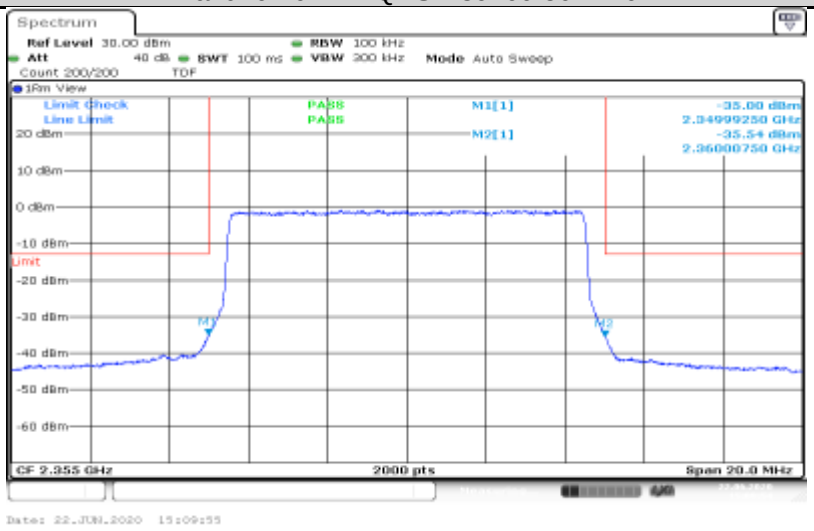
Band40-10MHz-QPSK-39200-1RB#49



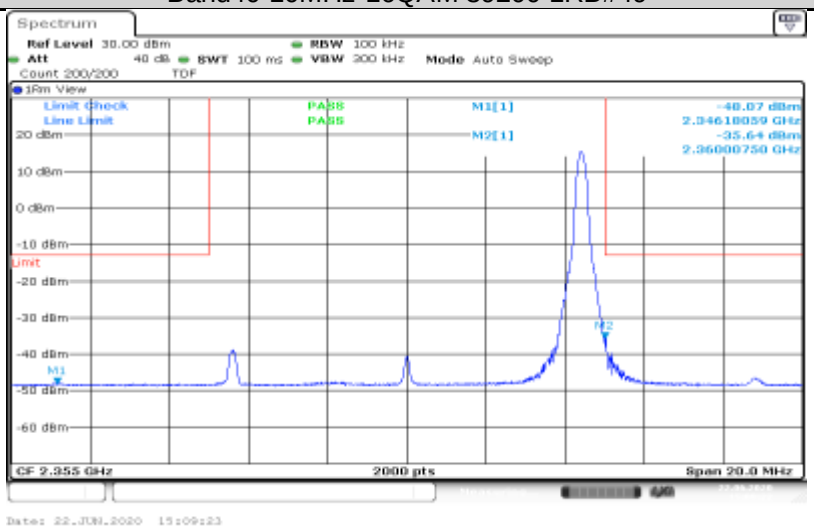
Band40-10MHz-QPSK-39200-1RB#0



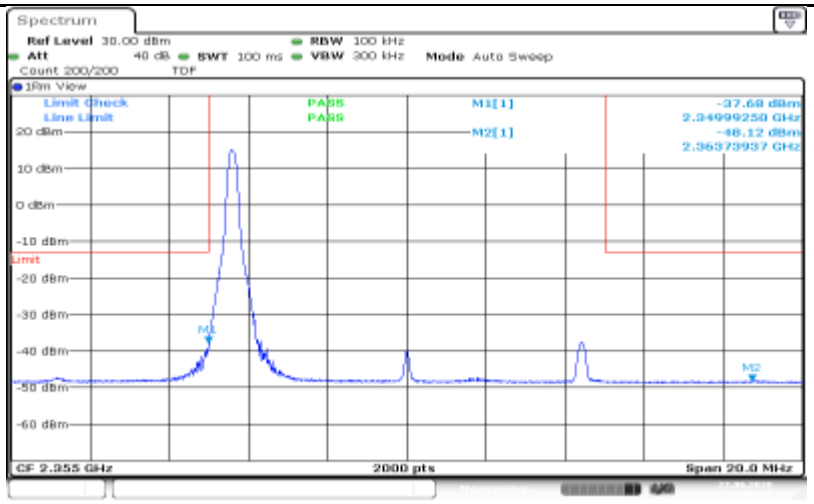
Band40-10MHz-QPSK-39200-50RB#0



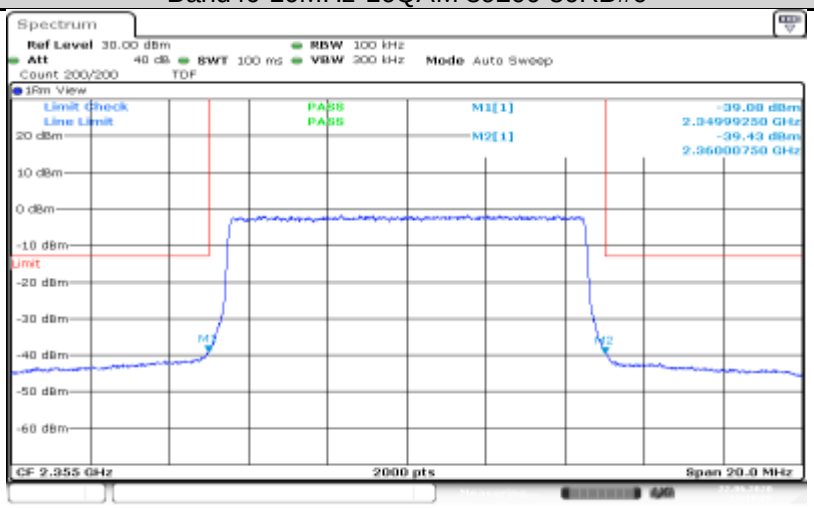
Band40-10MHz-16QAM-39200-1RB#49



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



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



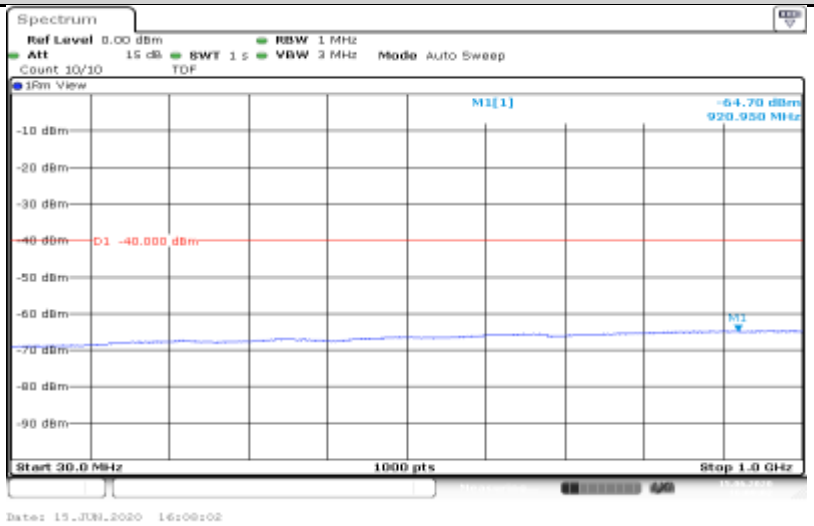
5. Conducted Spurious Emission

5.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band40	10MHz	QPSK	39200	1RB#0	Range1:30~1000MHz	-64.7	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range2:1000~2288MHz	-61.58	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range3:2288~2292MHz	-62.5	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range4:2292~2296MHz	-62.12	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range5:2296~2300MHz	-58.02	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range6:2300~2305MHz	-57.05	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range7:2320~2324MHz	-57.21	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range8:2324~2328MHz	-56.71	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range9:2328~2337MHz	-53.85	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range10:2337~2341MHz	-52.03	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range11:2341~2345MHz	-48.9	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range12:2360~2365MHz	-32.7	PASS
Band40	10MHz	QPSK	39200	1RB#0	Range13:2365~26500MHz	-41.82	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range1:30~1000MHz	-64.7	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range2:1000~2288MHz	-61.94	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range3:2288~2292MHz	-62.55	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range4:2292~2296MHz	-62.25	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range5:2296~2300MHz	-58.04	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range6:2300~2305MHz	-57.07	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range7:2320~2324MHz	-57.23	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range8:2324~2328MHz	-56.72	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range9:2328~2337MHz	-54.04	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range10:2337~2341MHz	-52.34	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range11:2341~2345MHz	-49.11	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range12:2360~2365MHz	-34.6	PASS
Band40	10MHz	16QAM	39200	1RB#0	Range13:2365~26500MHz	-41.95	PASS

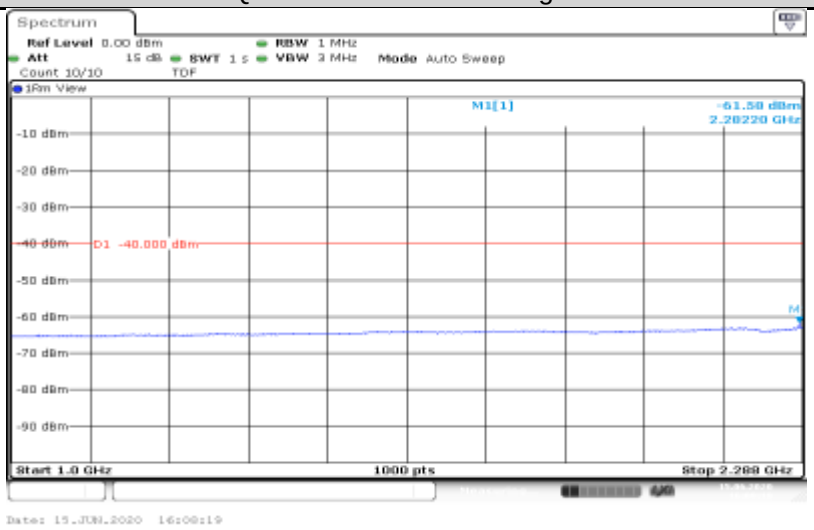
5.2 Test Graphs

Band40-10MHz-QPSK-39200-1RB#0-Range1:30~1000MHz



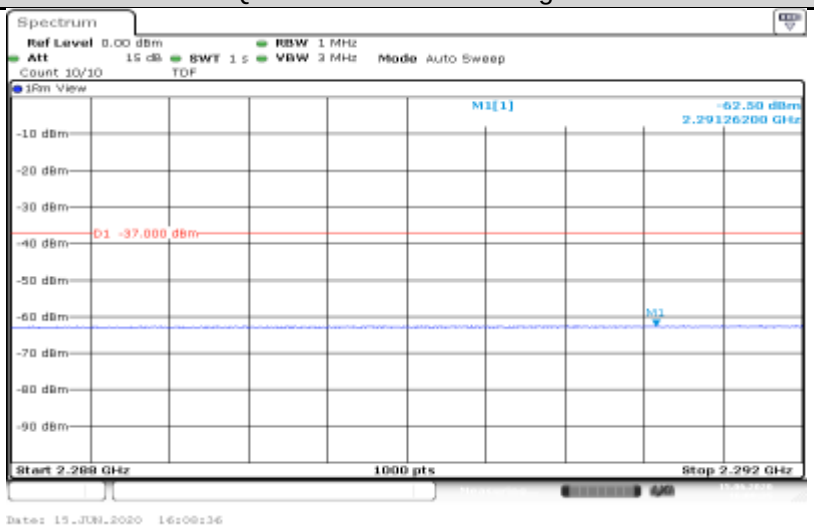
Date: 15.JUN.2020 16:00:02

Band40-10MHz-QPSK-39200-1RB#0-Range2:1000~2288MHz



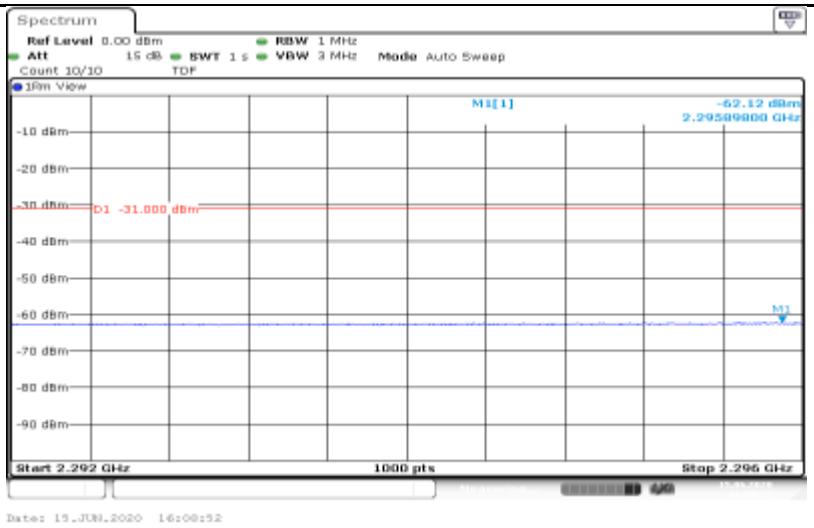
Date: 15.JUN.2020 16:00:19

Band40-10MHz-QPSK-39200-1RB#0-Range3:2288~2292MHz

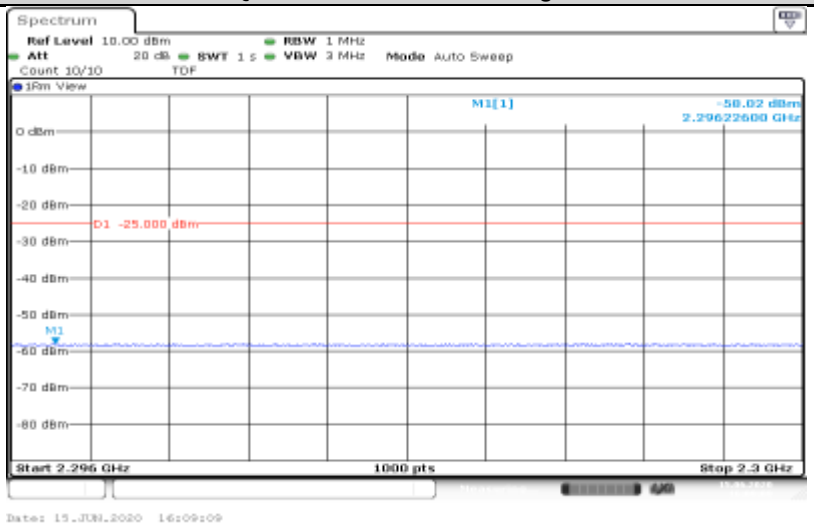


Date: 15.JUN.2020 16:00:36

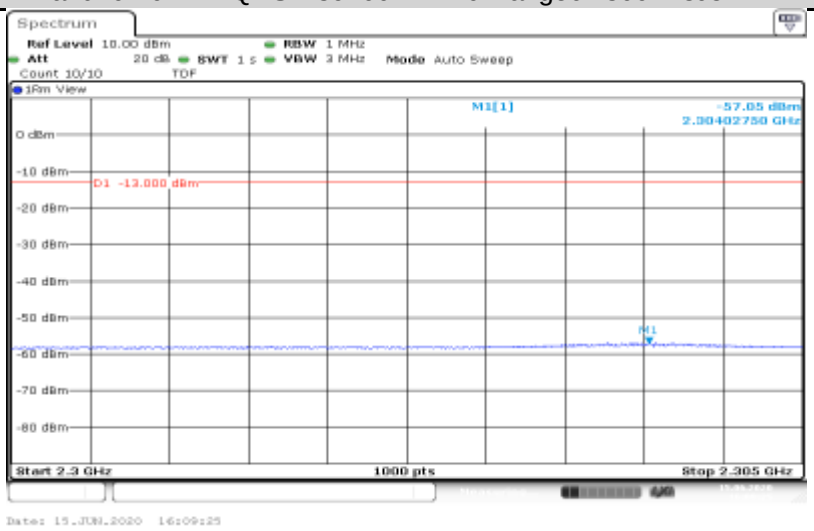
Band40-10MHz-QPSK-39200-1RB#0-Range4:2292~2296MHz



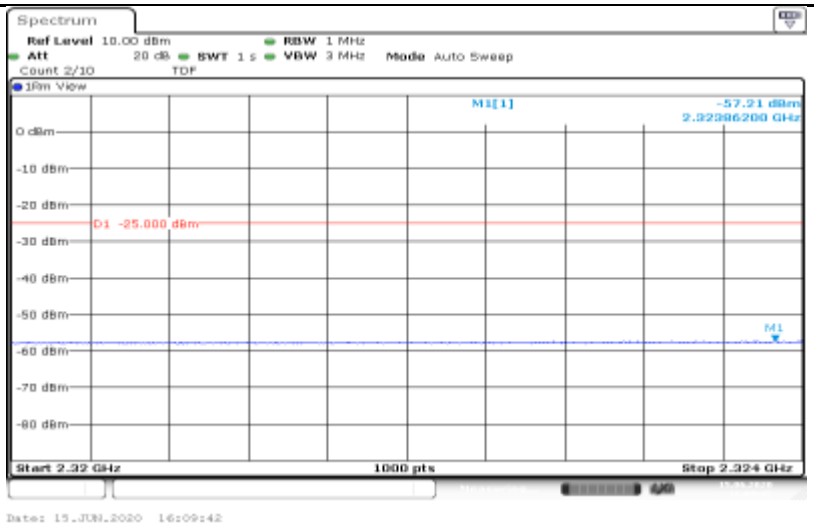
Band40-10MHz-QPSK-39200-1RB#0-Range5:2296~2300MHz



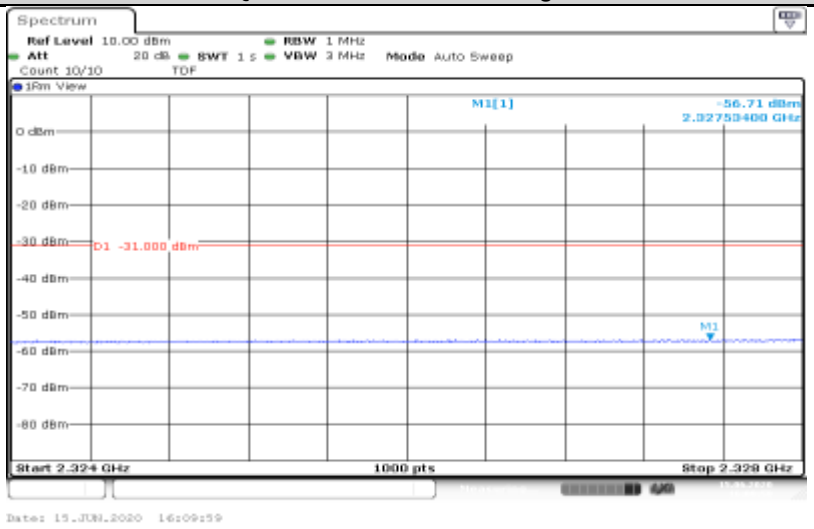
Band40-10MHz-QPSK-39200-1RB#0-Range6:2300~2305MHz



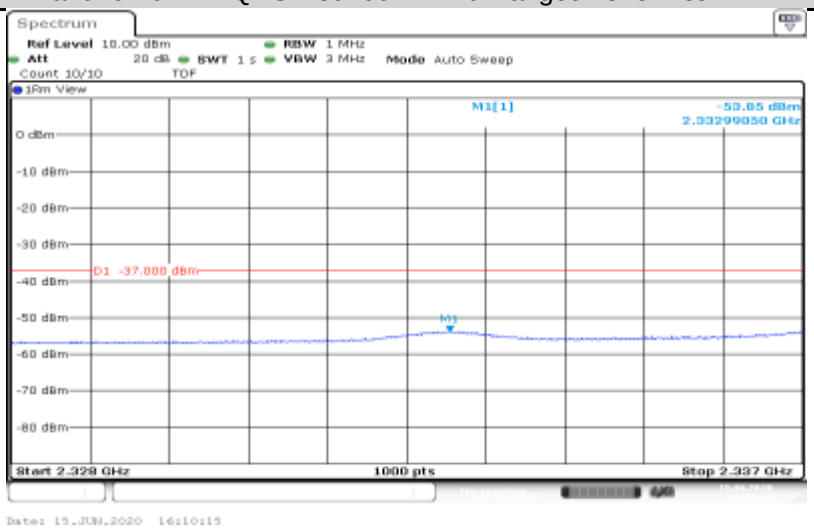
Band40-10MHz-QPSK-39200-1RB#0-Range7:2320~2324MHz



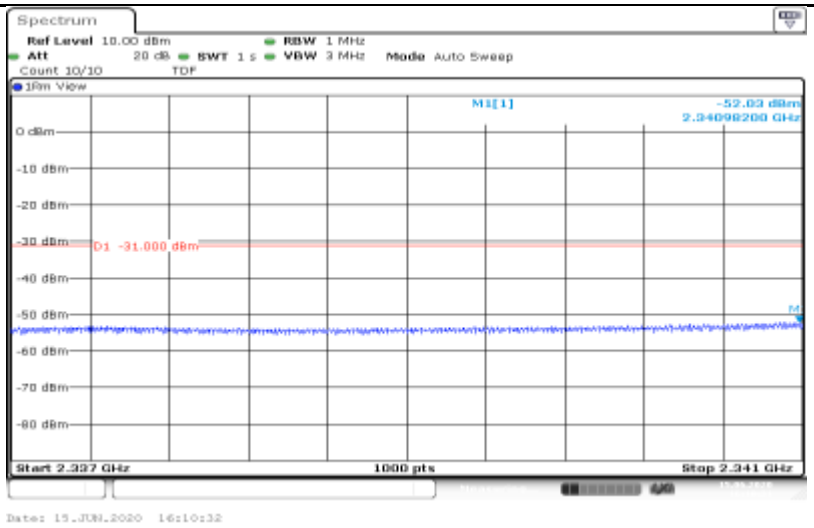
Band40-10MHz-QPSK-39200-1RB#0-Range8:2324~2328MHz



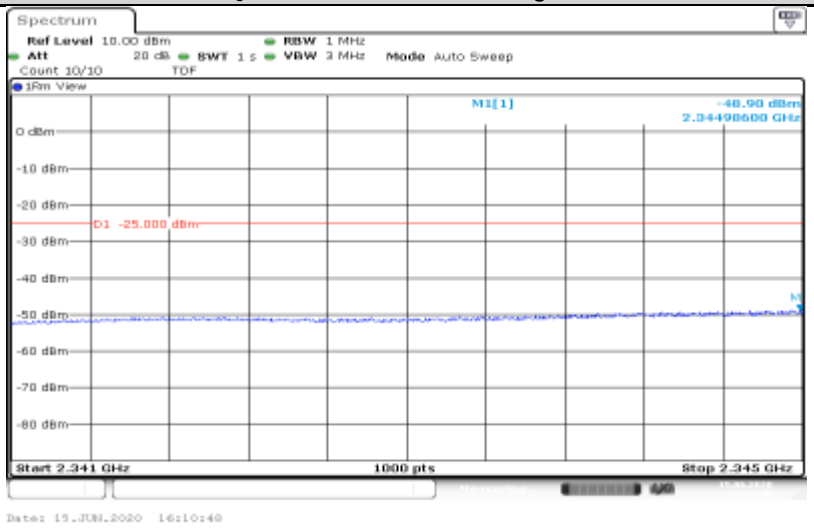
Band40-10MHz-QPSK-39200-1RB#0-Range9:2328~2337MHz



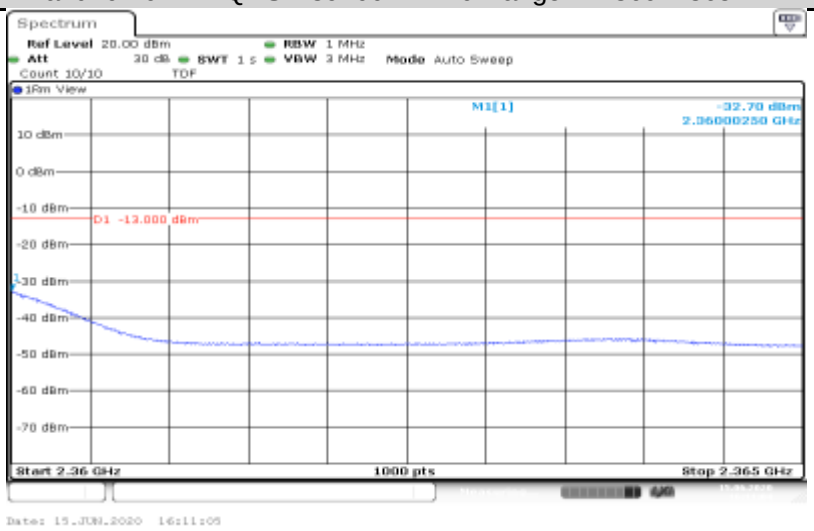
Band40-10MHz-QPSK-39200-1RB#0-Range10:2337~2341MHz



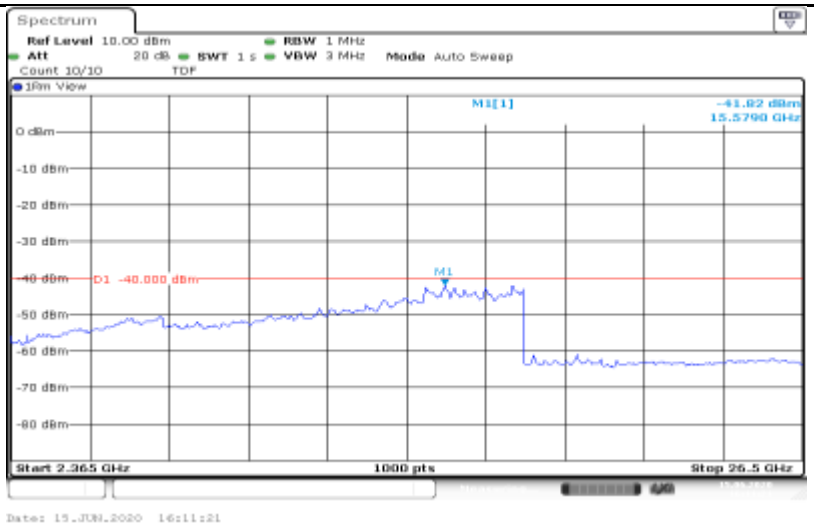
Band40-10MHz-QPSK-39200-1RB#0-Range11:2341~2345MHz



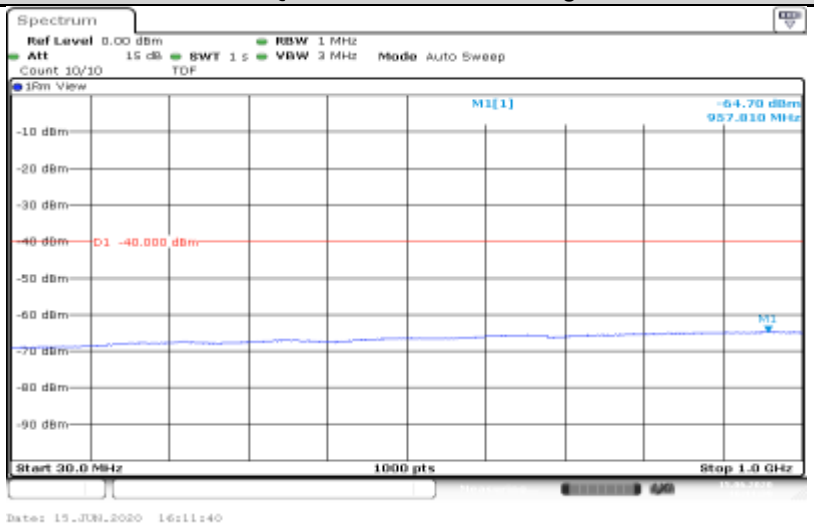
Band40-10MHz-QPSK-39200-1RB#0-Range12:2360~2365MHz



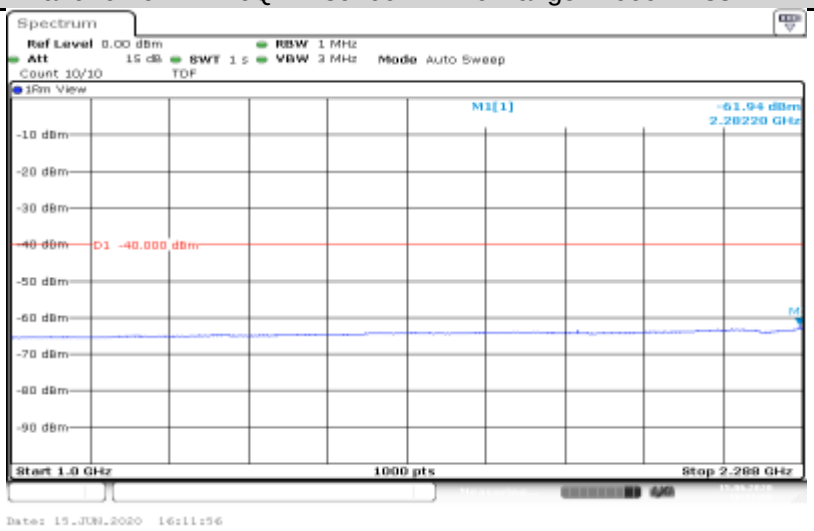
Band40-10MHz-QPSK-39200-1RB#0-Range13:2365~26500MHz



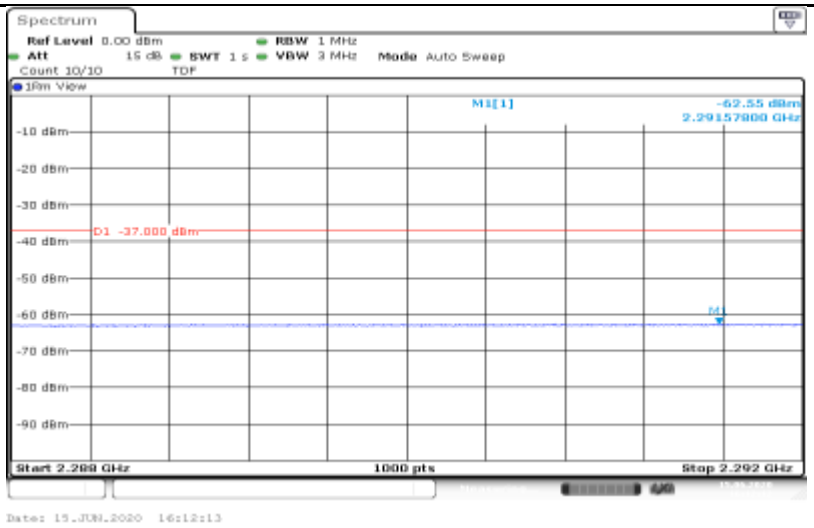
Band40-10MHz-16QAM-39200-1RB#0-Range1:30~1000MHz



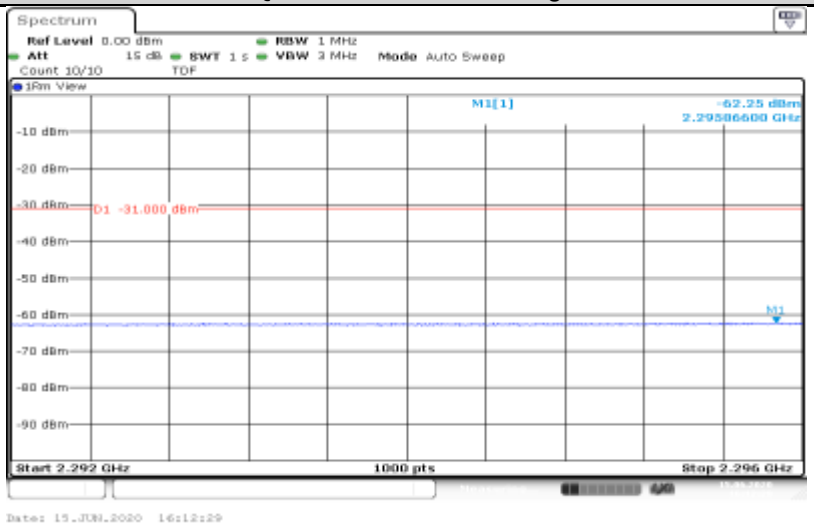
Band40-10MHz-16QAM-39200-1RB#0-Range2:1000~2288MHz



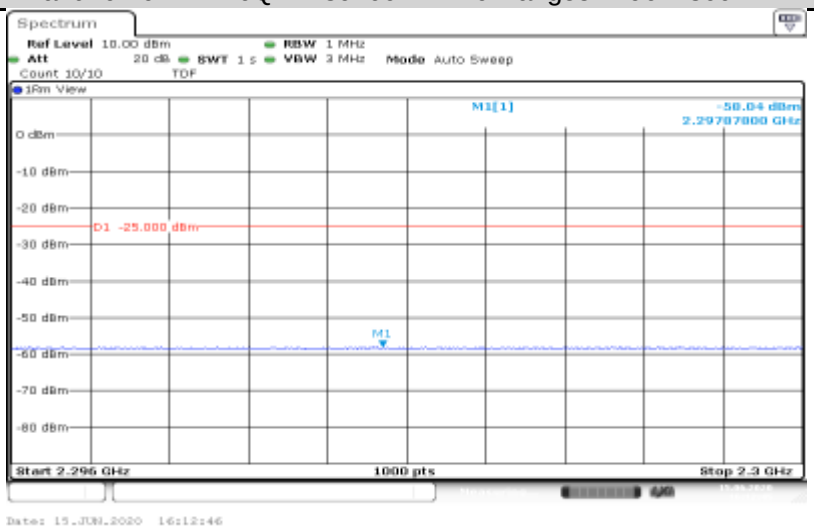
Band40-10MHz-16QAM-39200-1RB#0-Range3:2288~2292MHz



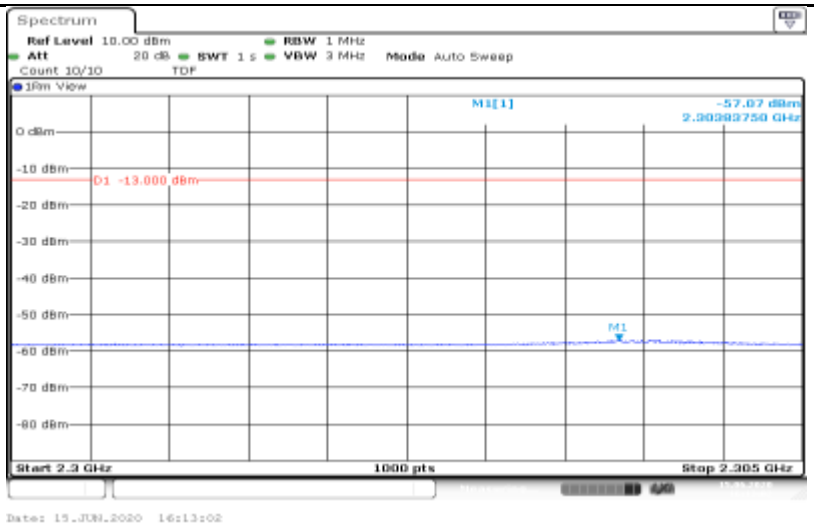
Band40-10MHz-16QAM-39200-1RB#0-Range4:2292~2296MHz



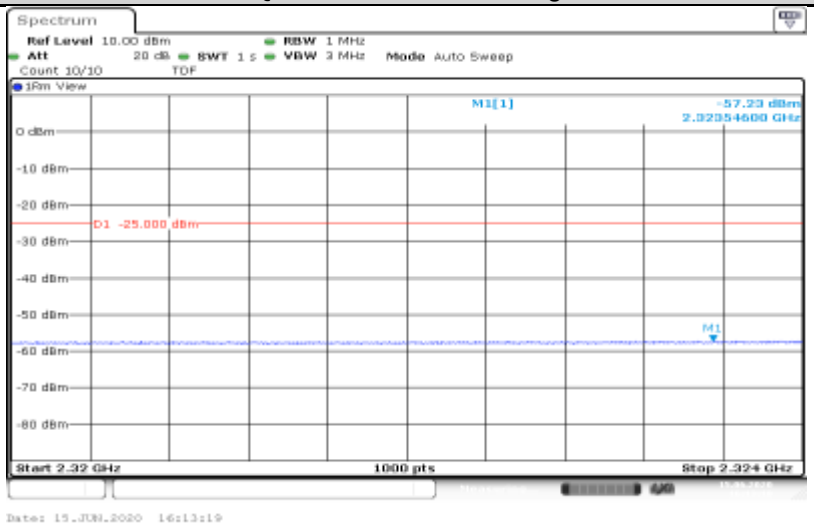
Band40-10MHz-16QAM-39200-1RB#0-Range5:2296~2300MHz



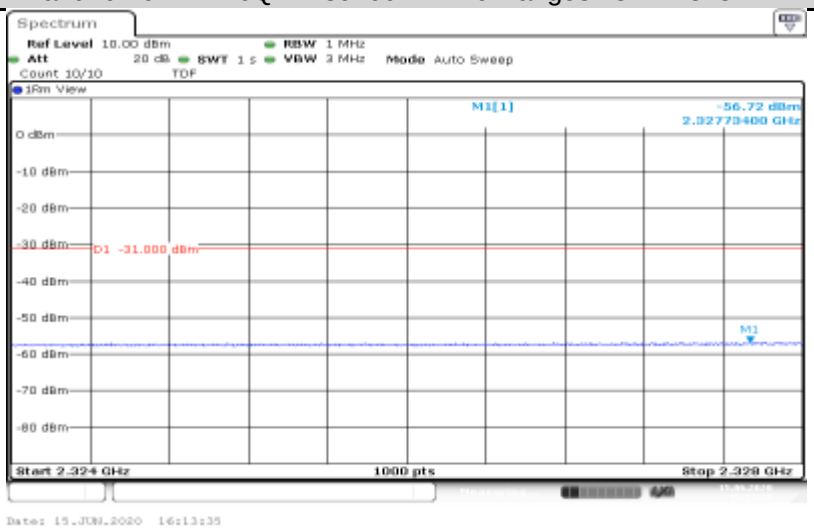
Band40-10MHz-16QAM-39200-1RB#0-Range6:2300~2305MHz



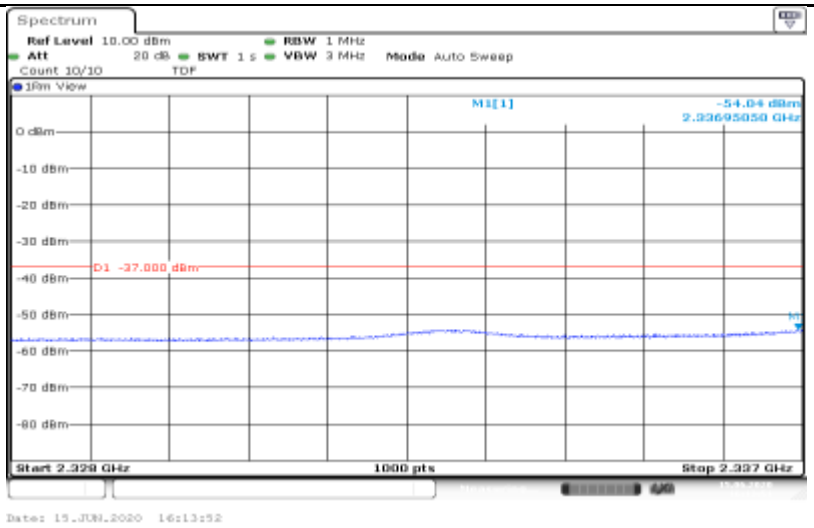
Band40-10MHz-16QAM-39200-1RB#0-Range7:2320~2324MHz



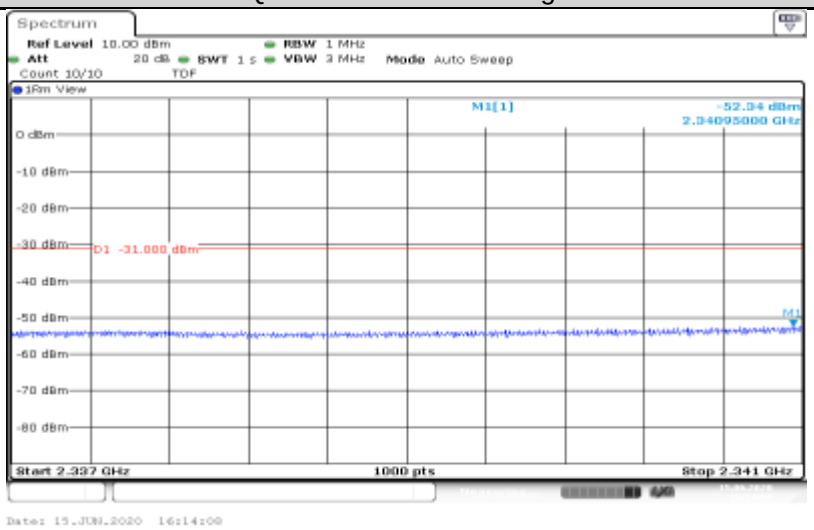
Band40-10MHz-16QAM-39200-1RB#0-Range8:2324~2328MHz



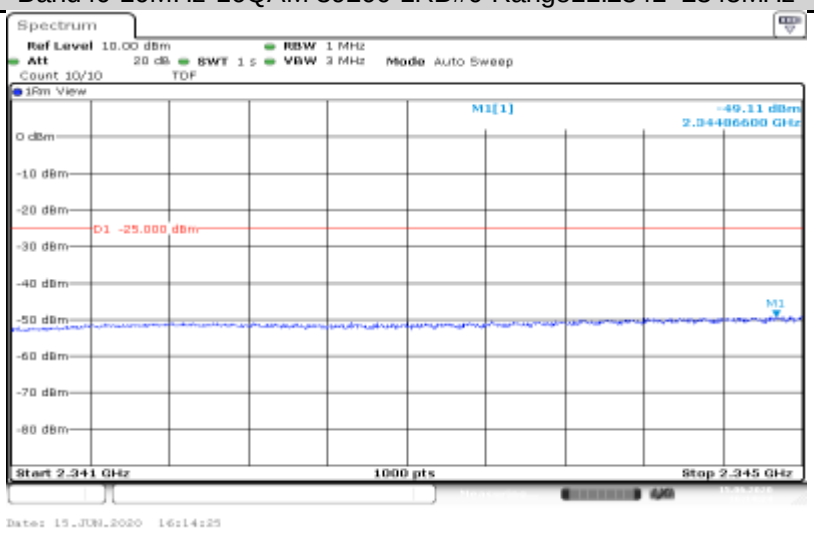
Band40-10MHz-16QAM-39200-1RB#0-Range9:2328~2337MHz



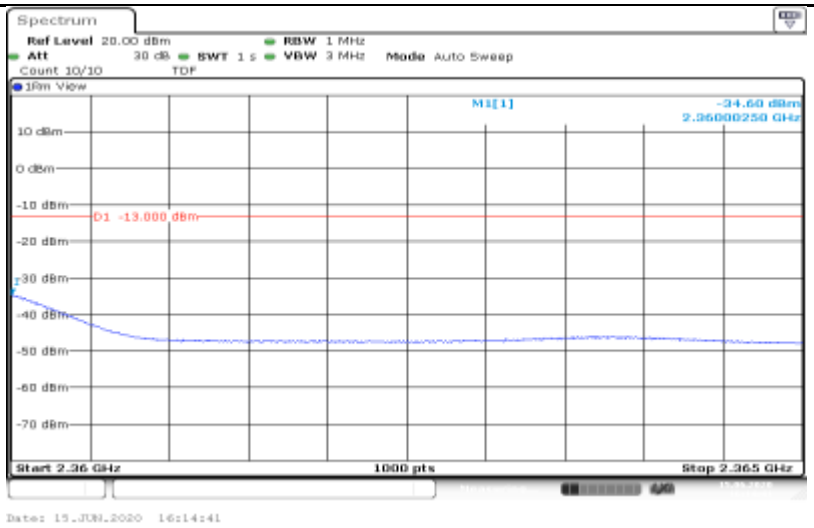
Band40-10MHz-16QAM-39200-1RB#0-Range10:2337~2341MHz



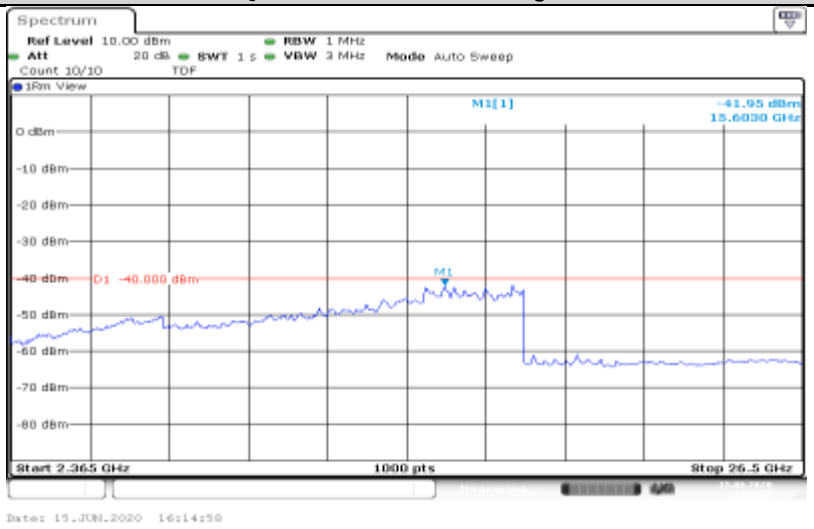
Band40-10MHz-16QAM-39200-1RB#0-Range11:2341~2345MHz



Band40-10MHz-16QAM-39200-1RB#0-Range12:2360~2365MHz



Band40-10MHz-16QAM-39200-1RB#0-Range13:2365~26500MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	10MHz	QPSK	39200	50RB#0	VL	NT	7.30	0.003100	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VN	NT	15.86	0.006735	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	VH	NT	6.25	0.002654	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VL	NT	19.61	0.008327	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VN	NT	20.94	0.008892	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	VH	NT	19.98	0.008484	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band40	10MHz	QPSK	39200	50RB#0	NV	-30	9.16	0.003890	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	-20	9.58	0.004068	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	0	9.77	0.004149	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	10	8.96	0.003805	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	20	7.44	0.003159	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	30	5.78	0.002454	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	40	-3.13	-0.001329	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	50	18.21	0.007732	±2.5	PASS
Band40	10MHz	QPSK	39200	50RB#0	NV	55	-3.28	-0.001393	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-30	18.38	0.007805	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	-20	17.95	0.007622	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	0	17.38	0.007380	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	10	17.34	0.007363	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	20	15.95	0.006773	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	30	17.92	0.007609	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	40	19.21	0.008157	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	50	12.87	0.005465	±2.5	PASS
Band40	10MHz	16QAM	39200	50RB#0	NV	55	11.37	0.004828	±2.5	PASS