Appendix B.17

LTE Band 38

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.15	24.29	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.31	24.45	33.00	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.12	24.26	33.00	PASS
Band38	5MHz	QPSK	37775	25RB#0	21.21	23.35	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#0	21.98	24.12	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.12	24.26	33.00	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.03	24.17	33.00	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.08	23.22	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.17	24.31	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.26	24.40	33.00	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.07	24.21	33.00	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.20	23.34	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#0	21.39	23.53	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#12	21.49	23.63	33.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	21.31	23.45	33.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	20.21	22.35	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#0	21.34	23.48	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#12	21.51	23.65	33.00	PASS
Band38	5MHz	16QAM	38000	1RB#24	21.37	23.51	33.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	20.11	22.25	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#0	21.49	23.63	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#12	21.65	23.79	33.00	PASS
Band38	5MHz	16QAM	38225	1RB#24	21.43	23.57	33.00	PASS
Band38	5MHz	16QAM	38225	25RB#0	20.21	22.35	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.25	24.39	33.00	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.30	24.44	33.00	PASS

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Band38	10MHz	QPSK	37800	1RB#49	22.12	24.26	33.00	PASS
Band38	10MHz	QPSK	37800	50RB#0	21.27	23.41	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.10	24.24	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.28	24.42	33.00	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.19	24.33	33.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	21.15	23.29	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.25	24.39	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.40	24.54	33.00	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.14	24.28	33.00	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.26	23.40	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#0	21.60	23.74	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#24	21.70	23.84	33.00	PASS
Band38	10MHz	16QAM	37800	1RB#49	21.53	23.67	33.00	PASS
Band38	10MHz	16QAM	37800	50RB#0	20.30	22.44	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#0	21.00	23.14	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.22	23.36	33.00	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.08	23.22	33.00	PASS
Band38	10MHz	16QAM	38000	50RB#0	20.20	22.34	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#0	21.64	23.78	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#24	21.72	23.86	33.00	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.52	23.66	33.00	PASS
Band38	10MHz	16QAM	38200	50RB#0	20.31	22.45	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.17	24.31	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.17	24.31	33.00	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.02	24.16	33.00	PASS
Band38	15MHz	QPSK	37825	75RB#0	21.23	23.37	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.13	24.27	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.21	24.35	33.00	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.18	24.32	33.00	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.19	23.33	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.16	24.30	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.21	24.35	33.00	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.08	24.22	33.00	PASS

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Band38	15MHz	QPSK	38175	75RB#0	21.28	23.42	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#0	21.51	23.65	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#38	21.55	23.69	33.00	PASS
Band38	15MHz	16QAM	37825	1RB#74	21.34	23.48	33.00	PASS
Band38	15MHz	16QAM	37825	75RB#0	20.23	22.37	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#0	21.08	23.22	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#38	21.19	23.33	33.00	PASS
Band38	15MHz	16QAM	38000	1RB#74	21.18	23.32	33.00	PASS
Band38	15MHz	16QAM	38000	75RB#0	20.16	22.30	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#0	21.55	23.69	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#38	21.59	23.73	33.00	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.44	23.58	33.00	PASS
Band38	15MHz	16QAM	38175	75RB#0	20.31	22.45	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.20	24.34	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.29	24.43	33.00	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.01	24.15	33.00	PASS
Band38	20MHz	QPSK	37850	100RB#0	21.20	23.34	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.03	24.17	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.30	24.44	33.00	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.16	24.30	33.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	21.11	23.25	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.12	24.26	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.40	24.54	33.00	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.06	24.20	33.00	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.21	23.35	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#0	21.37	23.51	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#49	21.49	23.63	33.00	PASS
Band38	20MHz	16QAM	37850	1RB#99	21.18	23.32	33.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	20.17	22.31	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#0	20.66	22.80	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#49	20.94	23.08	33.00	PASS
Band38	20MHz	16QAM	38000	1RB#99	20.78	22.92	33.00	PASS
Band38	20MHz	16QAM	38000	100RB#0	20.17	22.31	33.00	PASS

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Band38	20MHz	16QAM	38150	1RB#0	21.31	23.45	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.60	23.74	33.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.30	23.44	33.00	PASS
Band38	20MHz	16QAM	38150	100RB#0	20.23	22.37	33.00	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	20MHz	QPSK	37850	100RB#0	9.26	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	9.36	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	9.32	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	11.02	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	10.06	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	10.04	13	PASS

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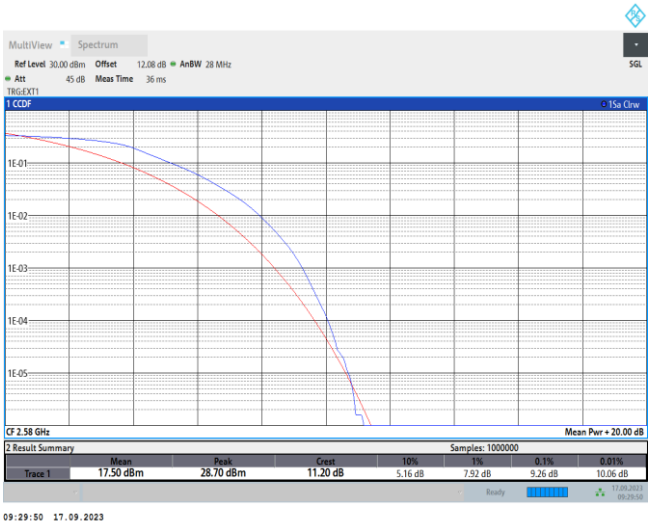
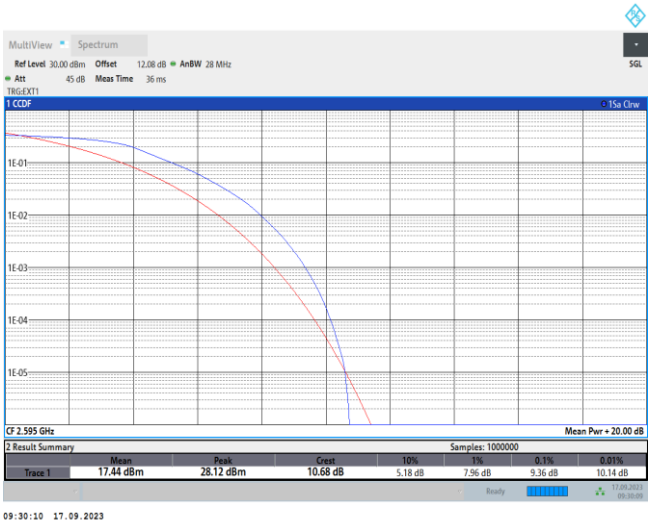
Test Graphs

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



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



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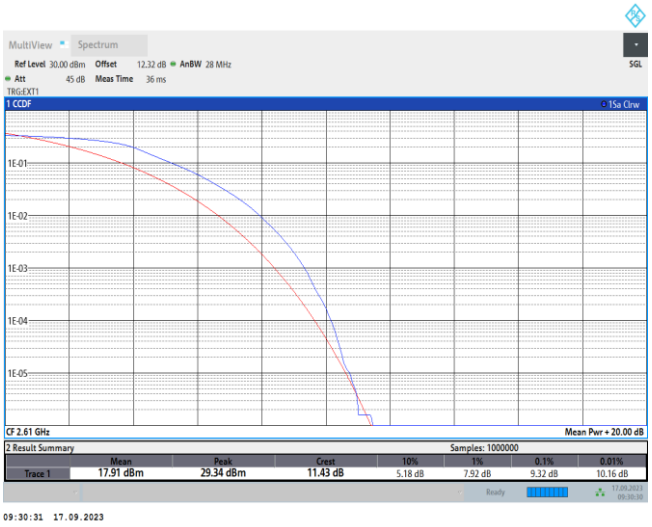
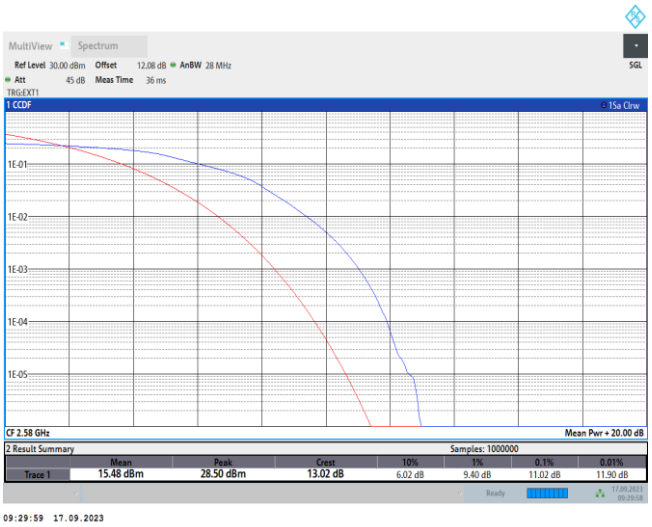
Band38-20MHz-QPSK-38150-100RB#0



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



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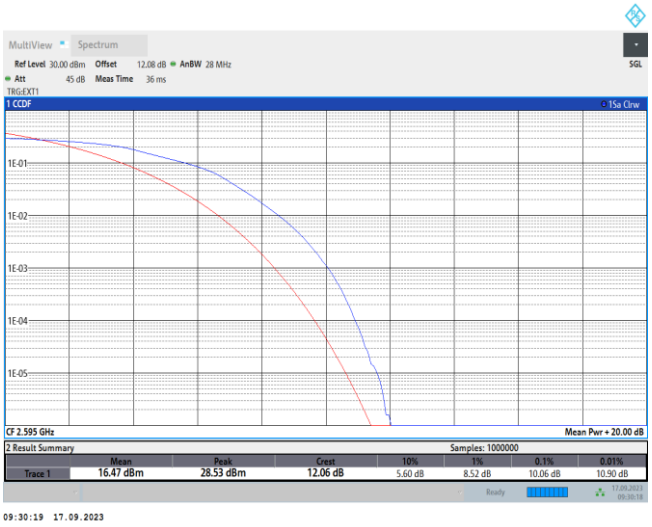
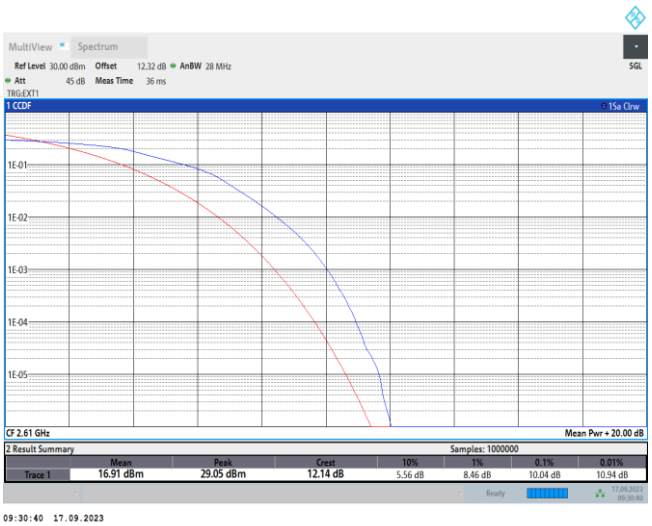
Band38-20MHz-16QAM-38000-100RB#0



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



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.497	5.07	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.493	5.08	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.494	5.11	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.5	5.45	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.505	5.37	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.501	5.30	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.949	9.60	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.917	9.64	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.922	9.68	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.923	9.56	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.92	9.60	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.924	9.56	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.515	17.37	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.526	17.55	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.527	17.07	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.467	14.79	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.471	14.88	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.469	14.91	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.109	19.12	PASS
Band38	20MHz	QPSK	38000	100RB#0	18.103	19.72	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.946	20.32	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.9	20.44	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.921	20.24	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.898	20.80	PASS

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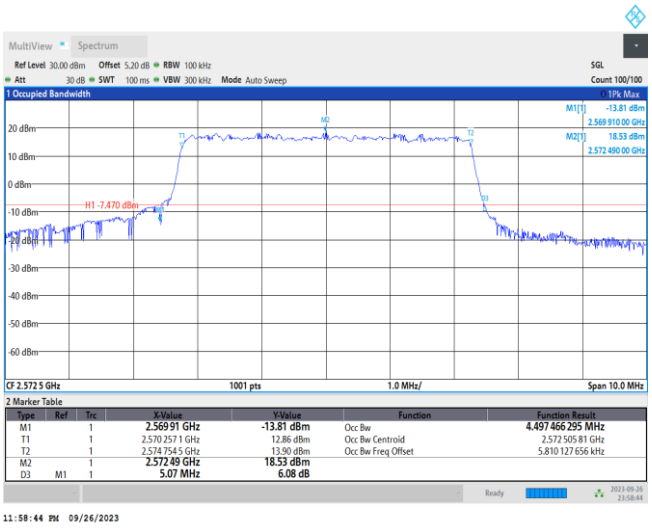
Test Graphs

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


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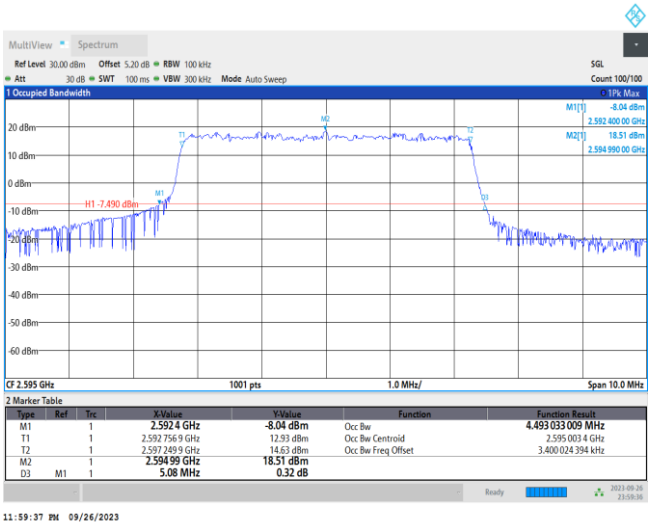

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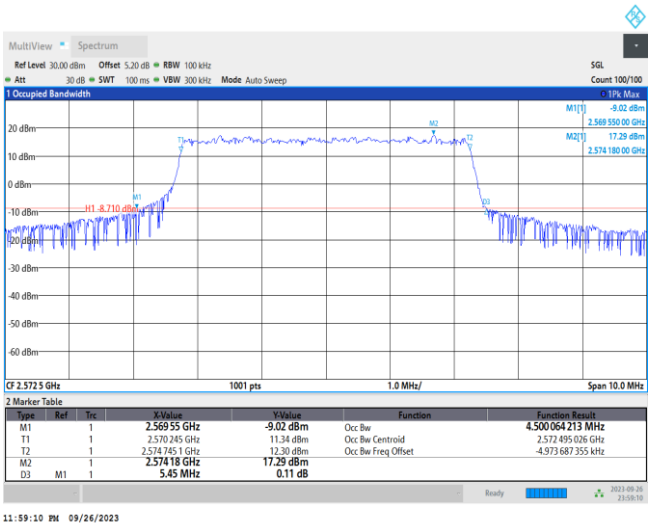
Band38-5MHz-QPSK-38225-25RB#0

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



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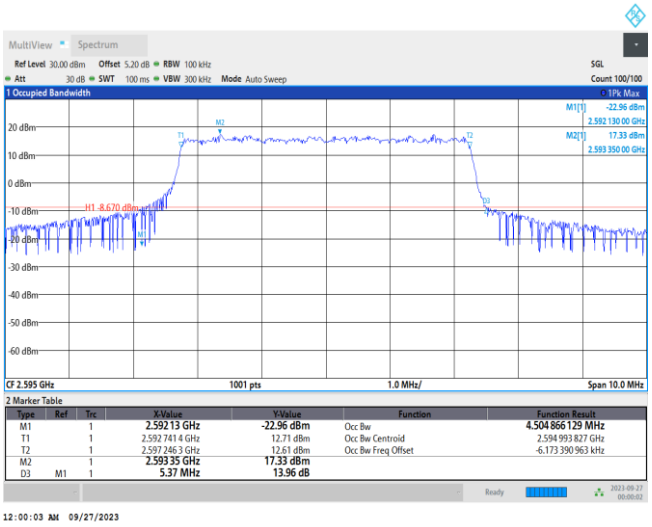
Band38-5MHz-16QAM-38000-25RB#0



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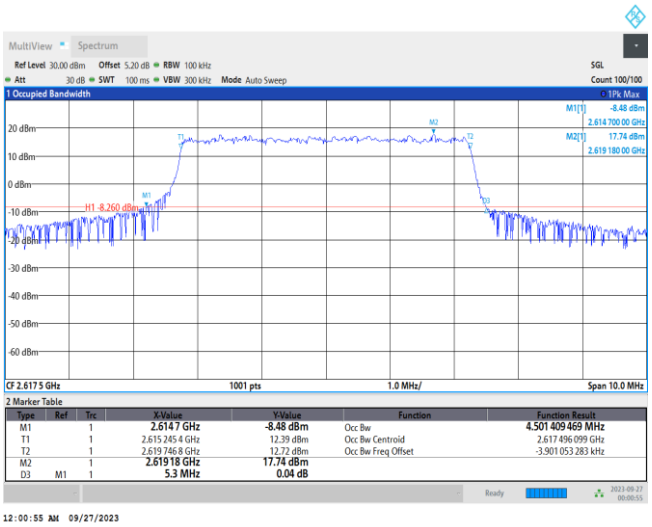

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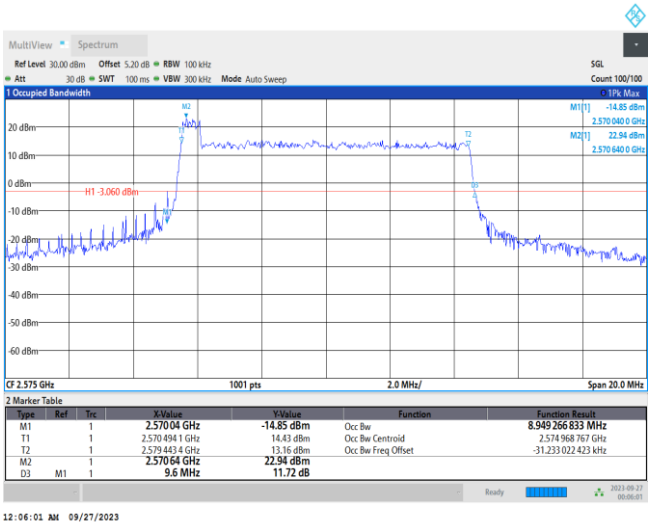
Band38-10MHz-QPSK-37800-50RB#0



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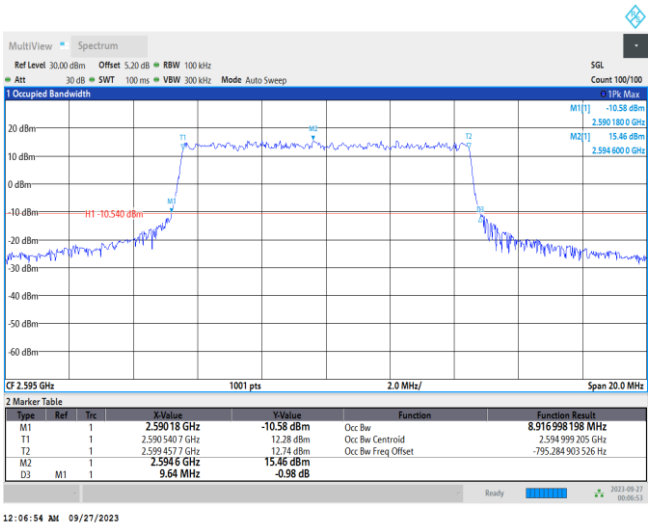

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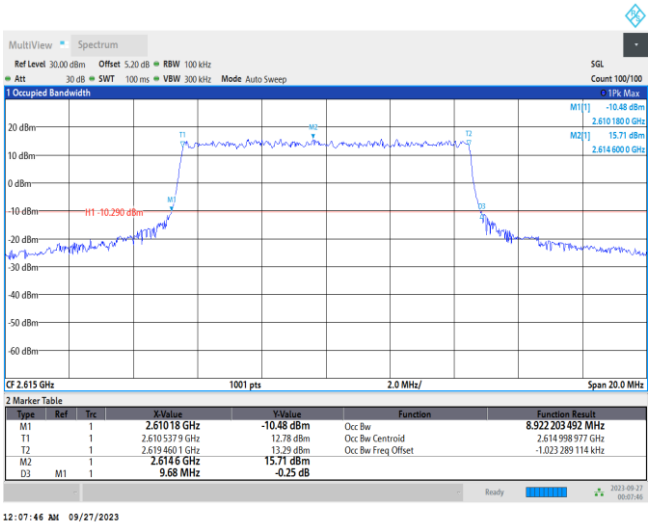
Band38-10MHz-QPSK-38200-50RB#0



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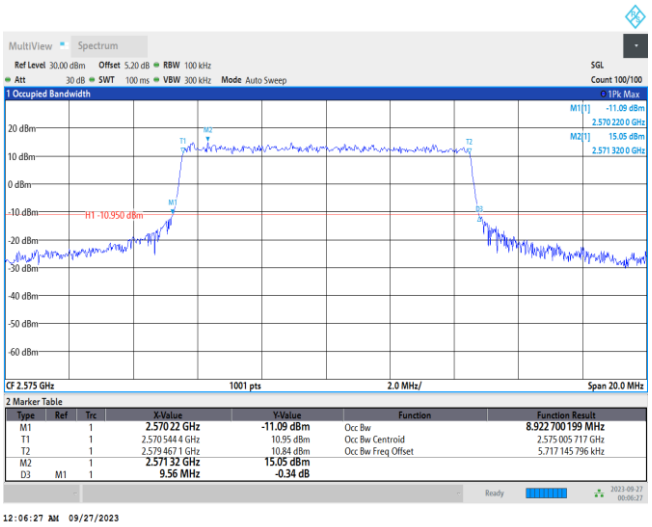

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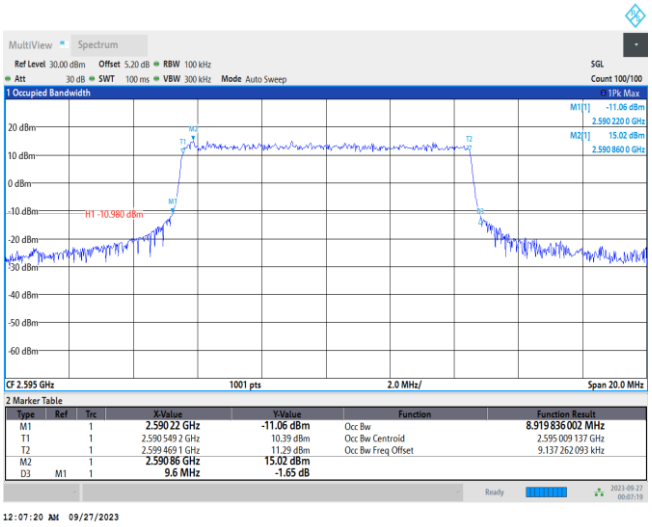
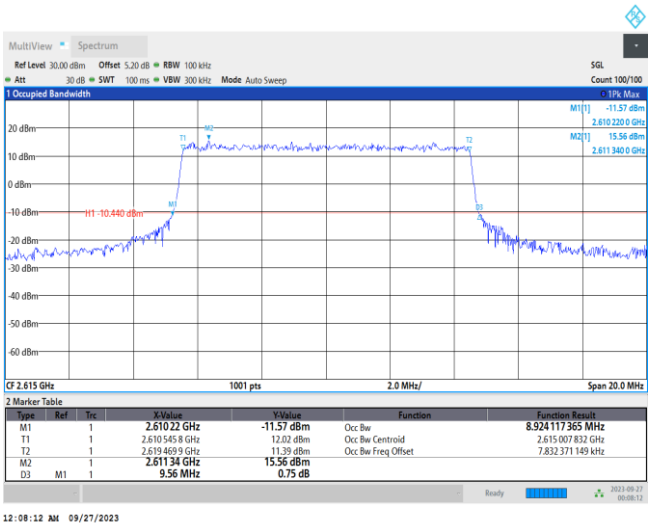
Band38-10MHz-16QAM-38000-50RB#0



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



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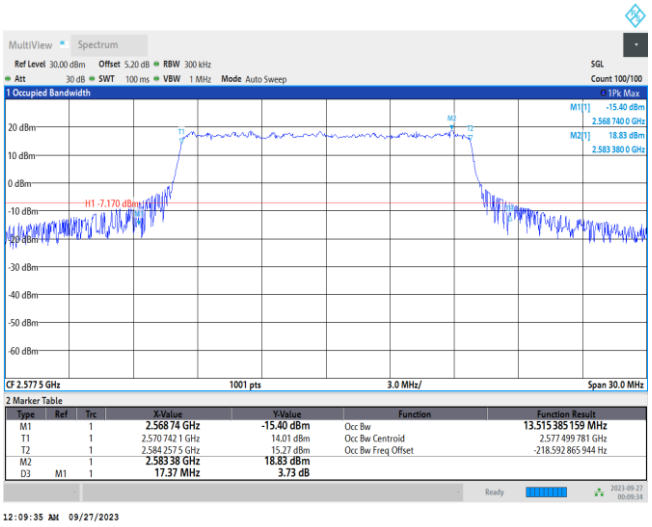
Band38-15MHz-QPSK-37825-75RB#0



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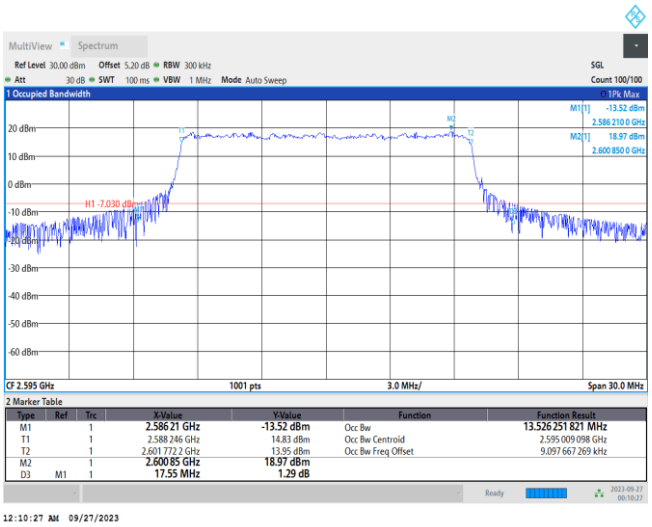

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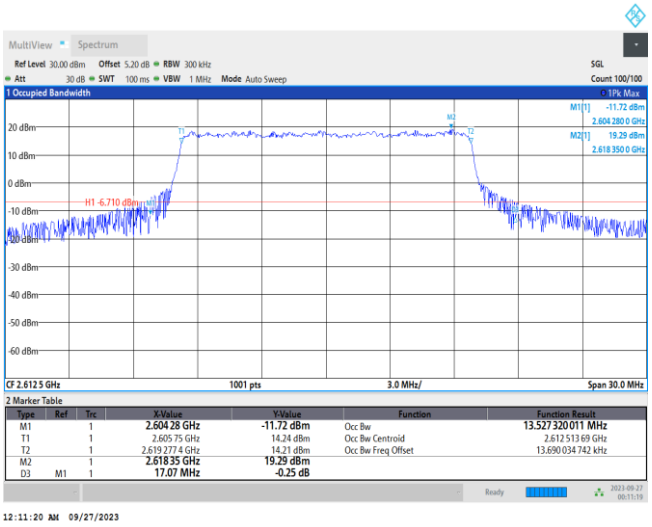
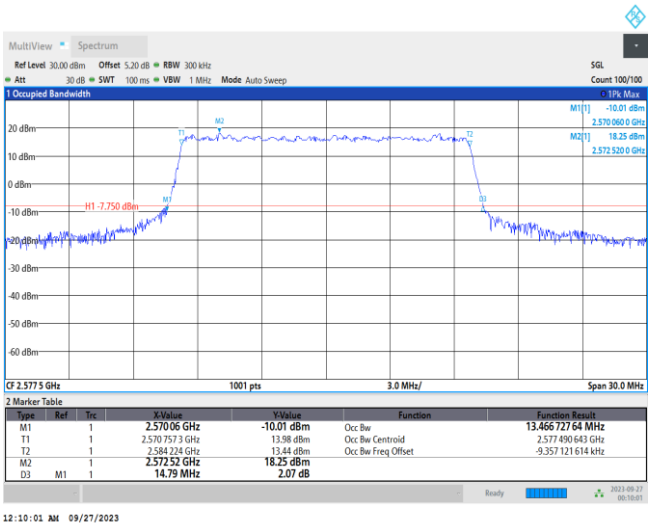
Band38-15MHz-QPSK-38175-75RB#0



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



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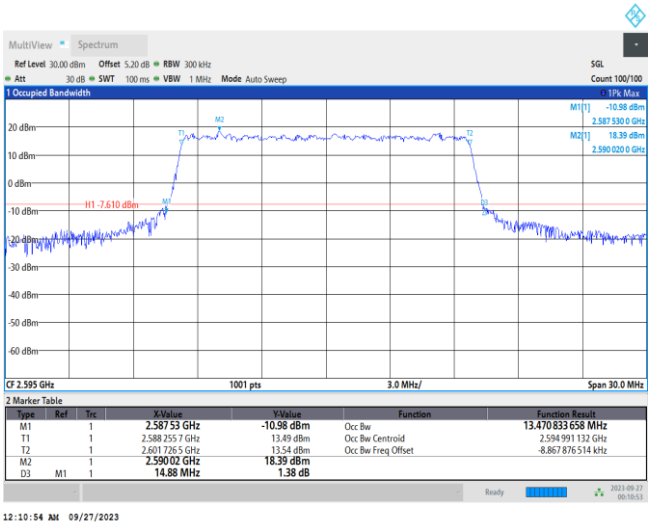
Band38-15MHz-16QAM-38000-75RB#0



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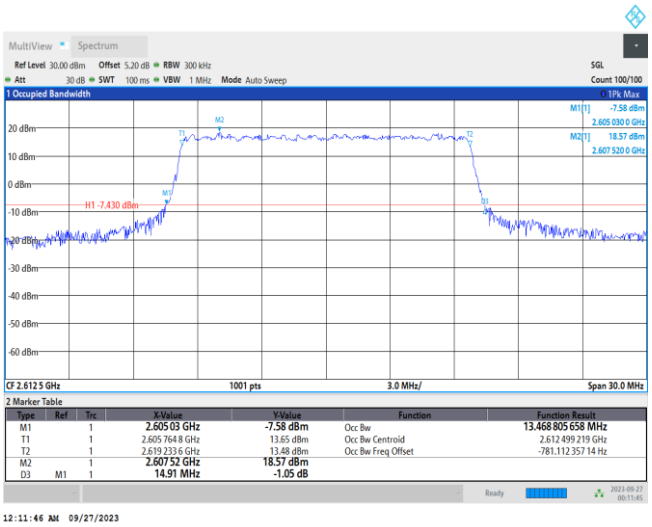

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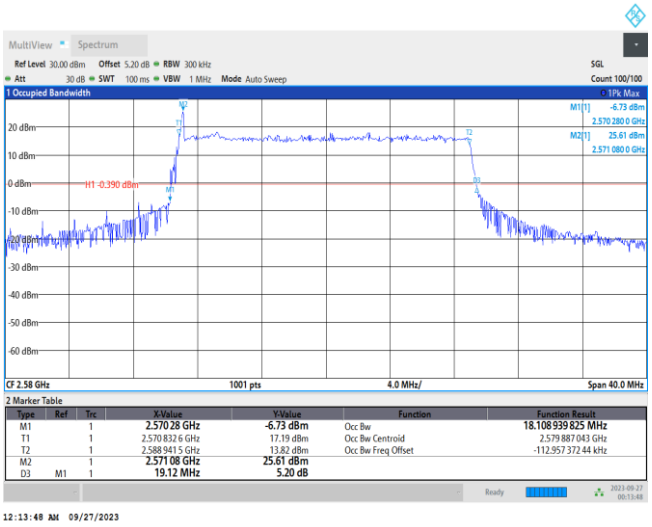
Band38-20MHz-QPSK-37850-100RB#0



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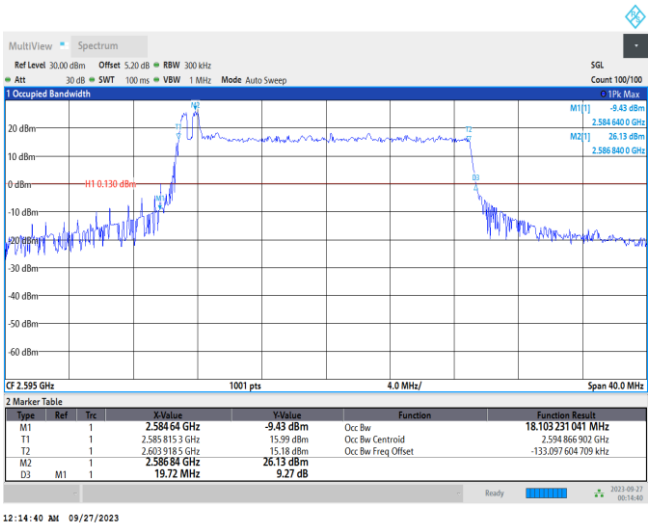

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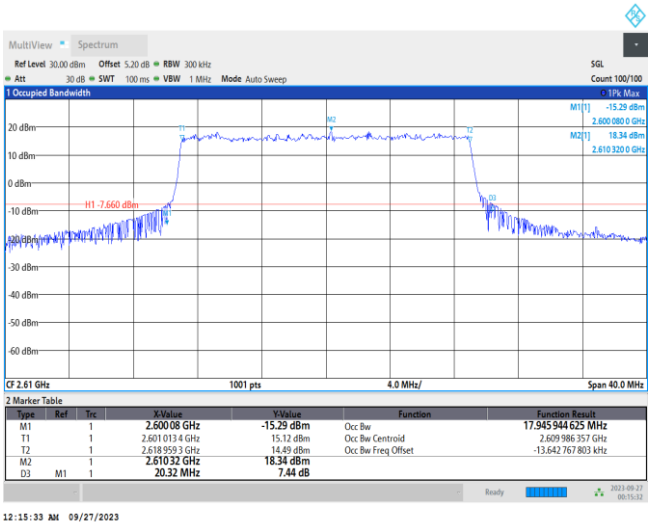
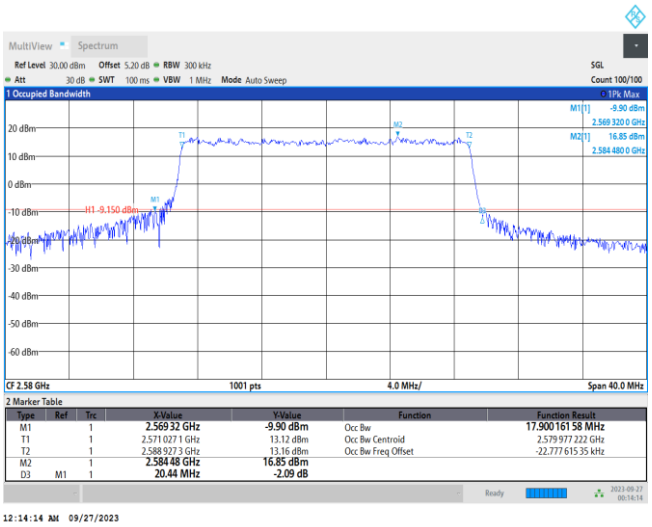
Band38-20MHz-QPSK-38150-100RB#0



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



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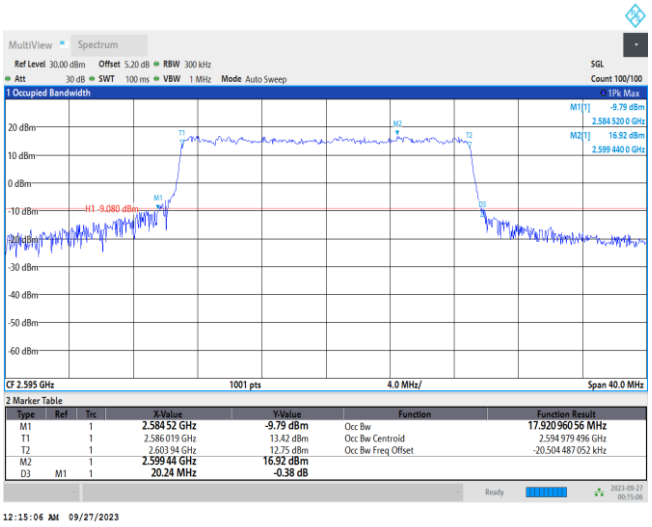
Band38-20MHz-16QAM-38000-100RB#0



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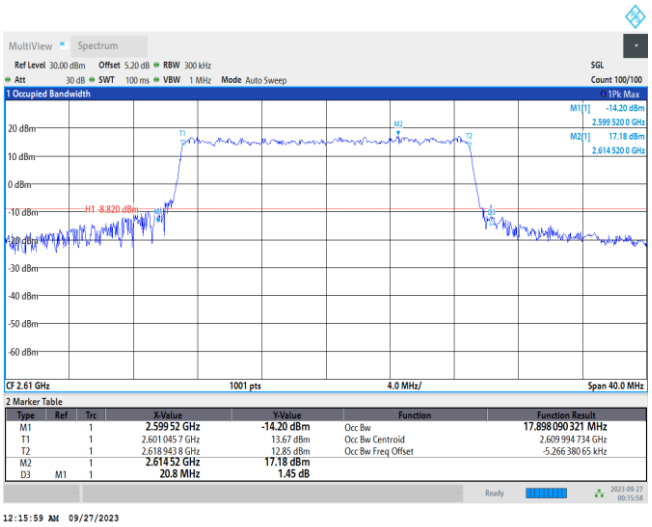

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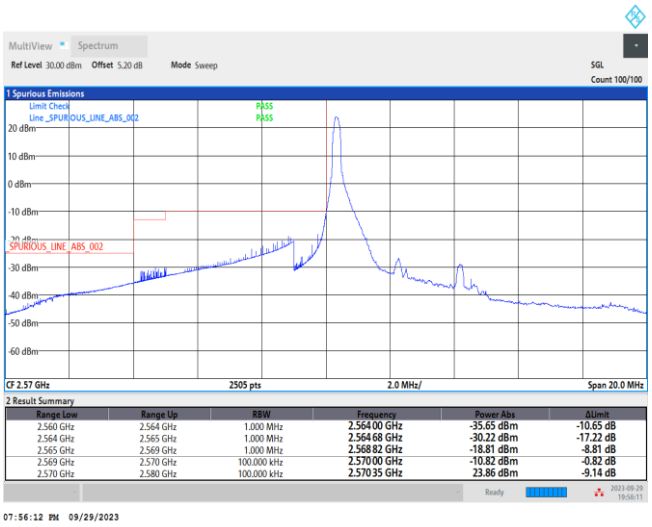
Band Edge

Test Graphs

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



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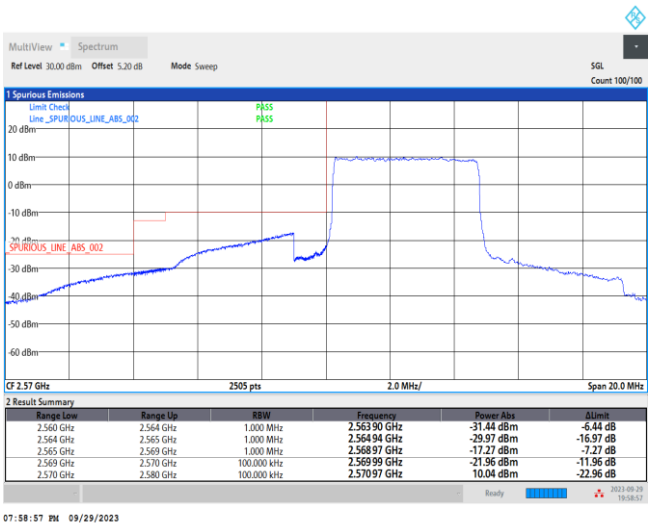

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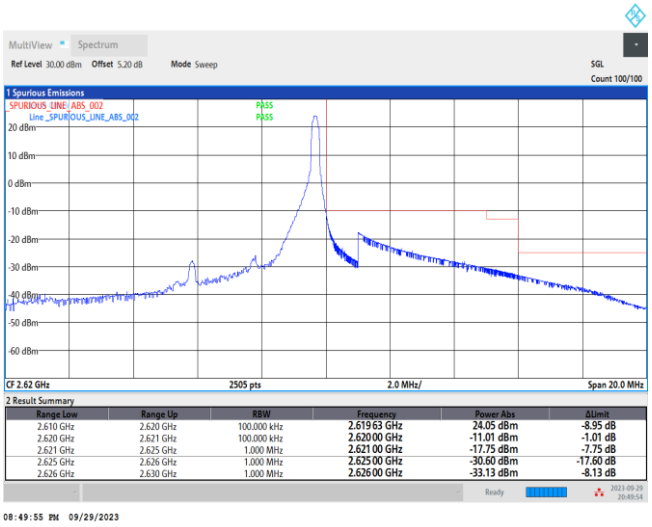
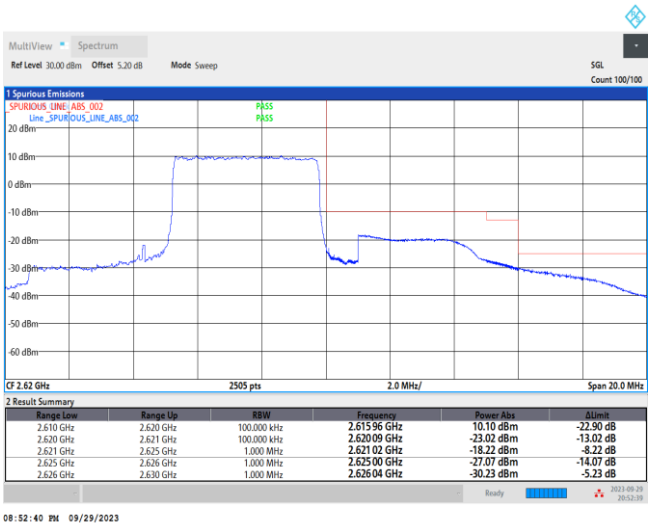
Band38-5MHz-QPSK-38225-1RB#24



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



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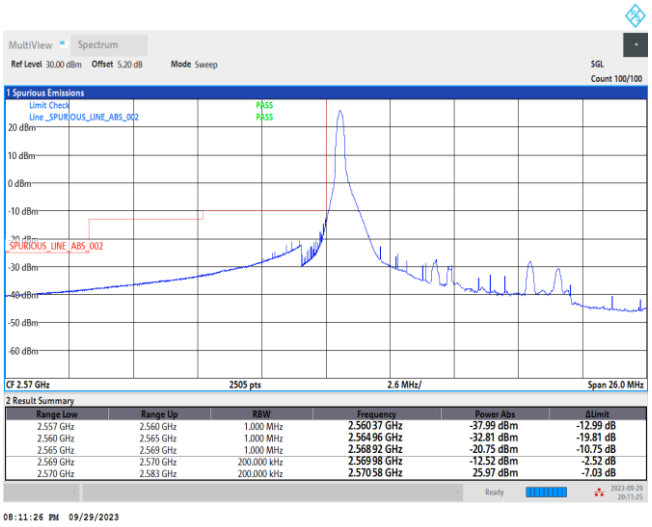
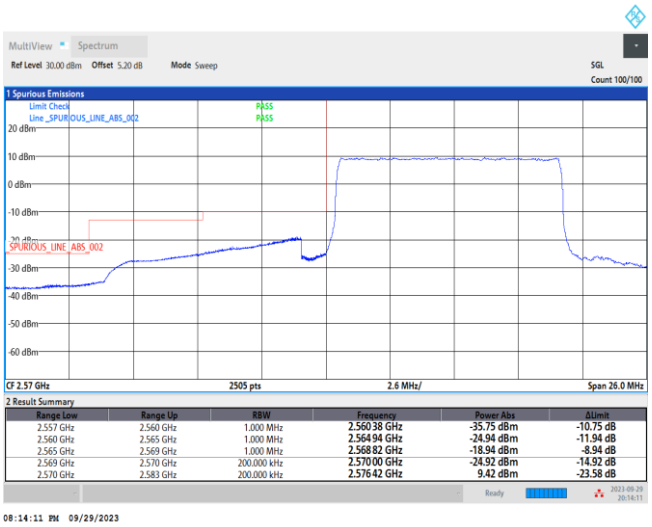
Band38-10MHz-QPSK-37800-1RB#0



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



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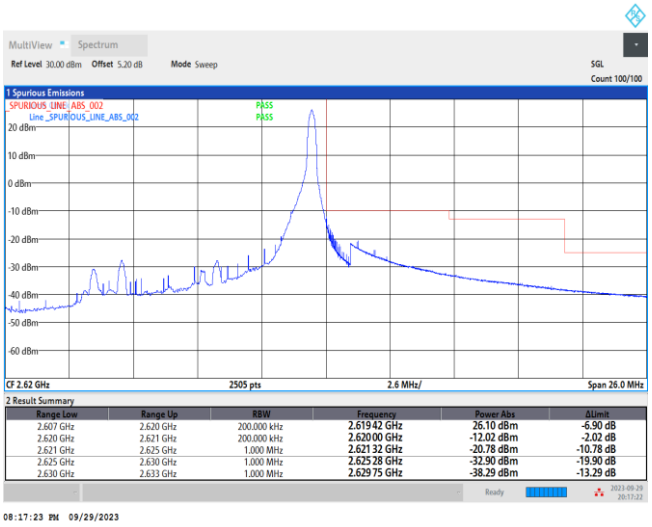
Band38-10MHz-QPSK-38200-1RB#49



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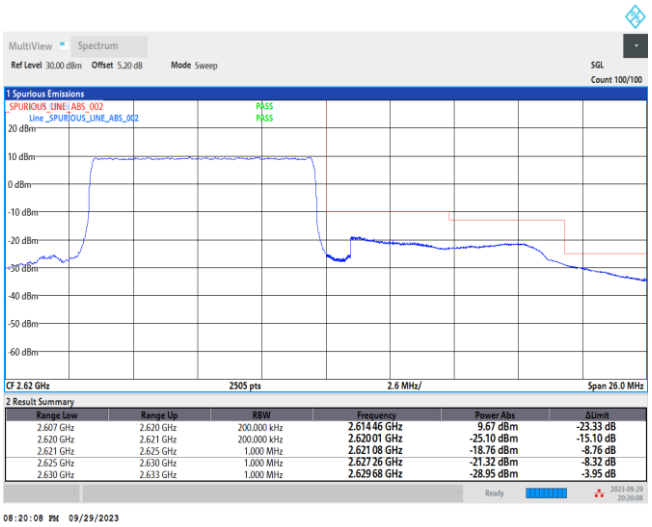

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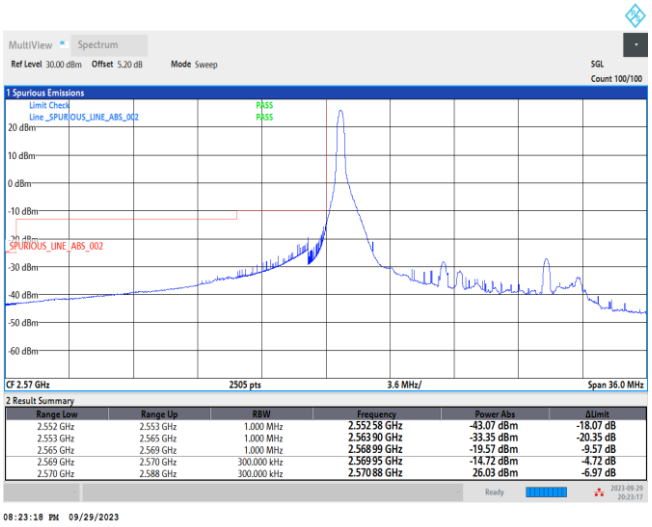
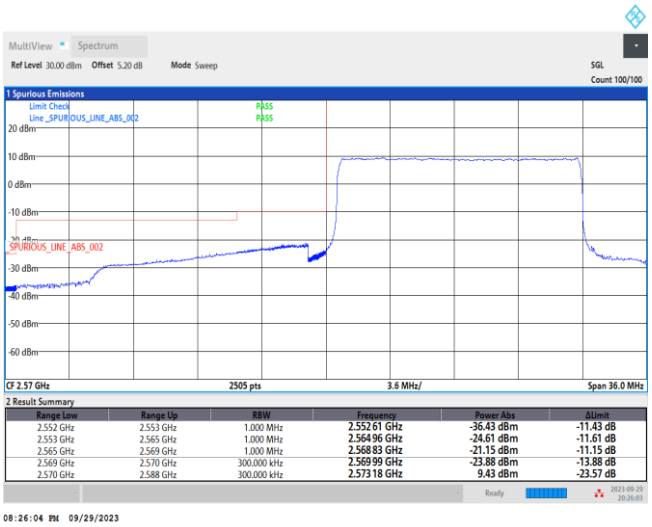
Band38-15MHz-QPSK-37825-1RB#0



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



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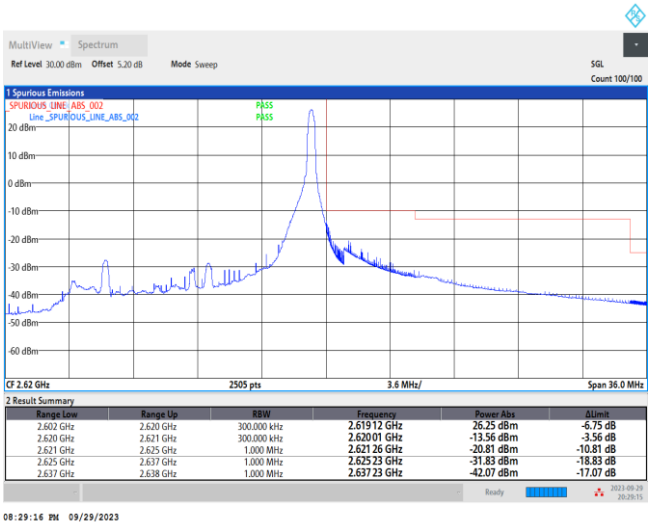
Band38-15MHz-QPSK-38175-1RB#74



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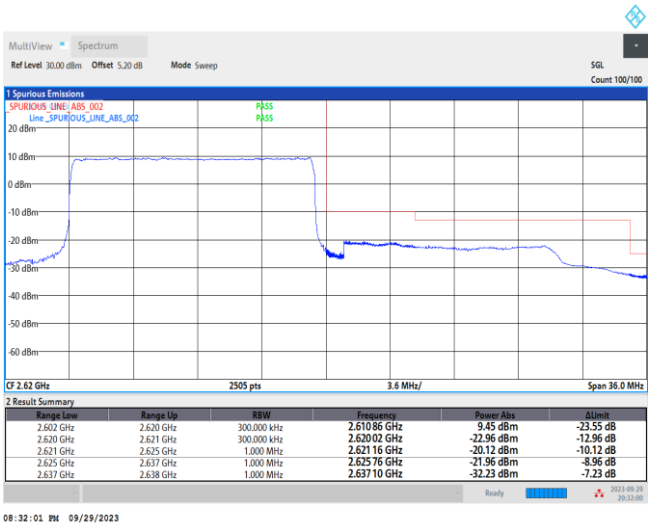

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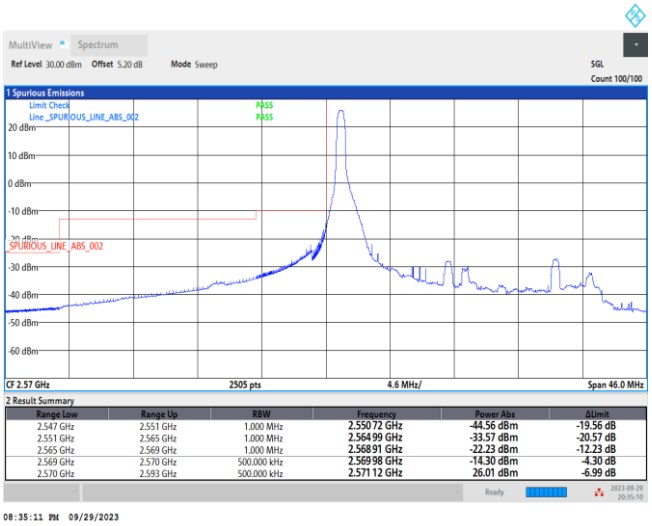
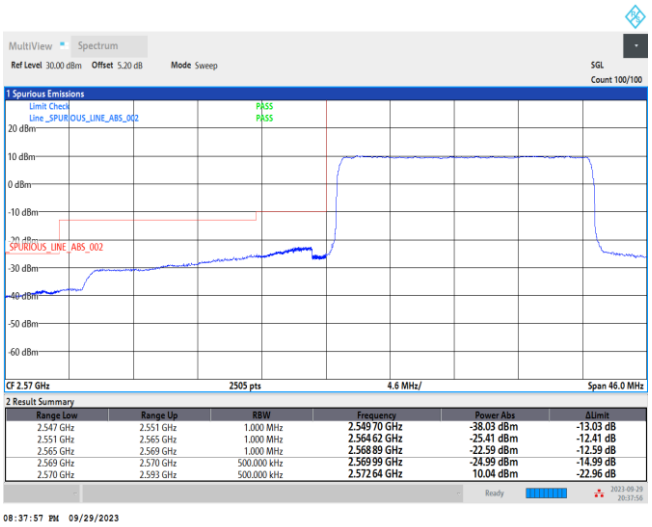
Band38-20MHz-QPSK-37850-1RB#0



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



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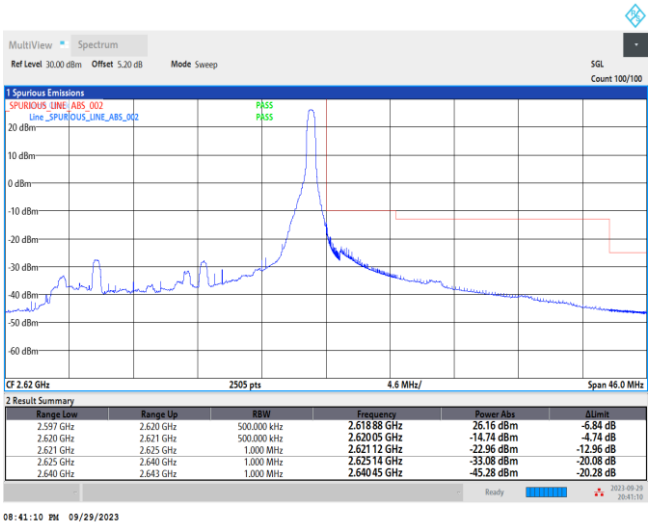
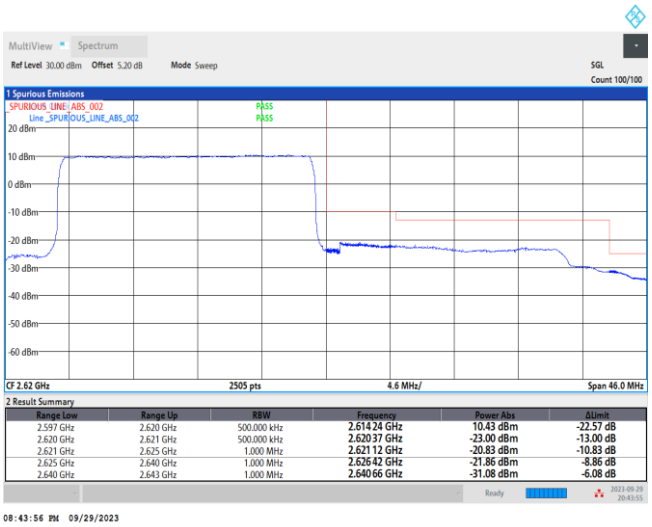
Band38-20MHz-QPSK-38150-1RB#99



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



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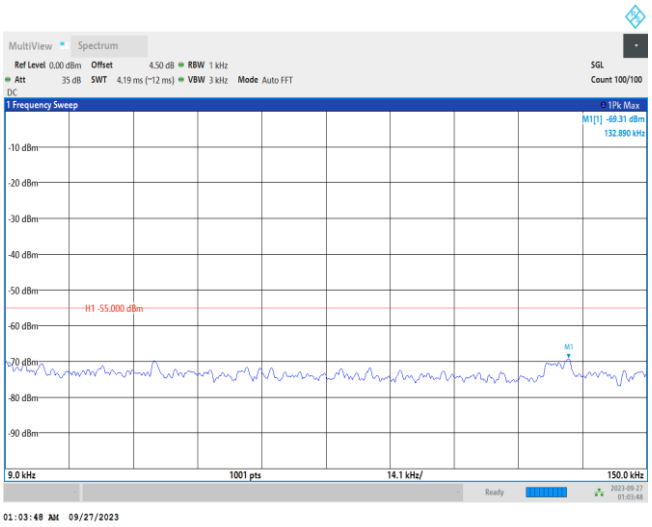
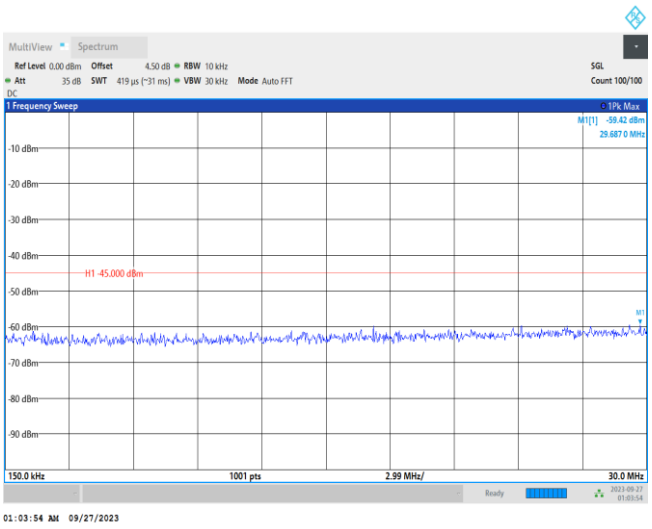
Conducted Spurious Emission

Test Graphs

Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz



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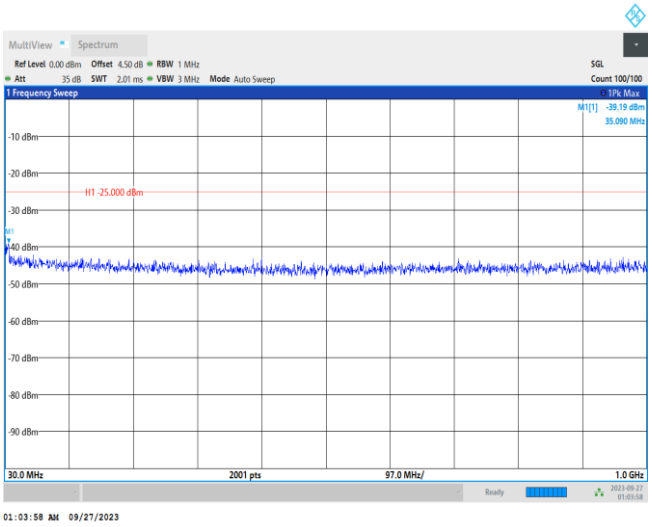
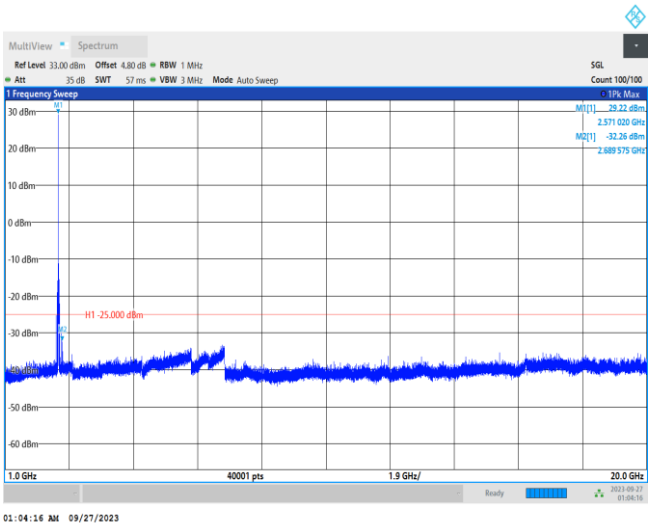
Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz



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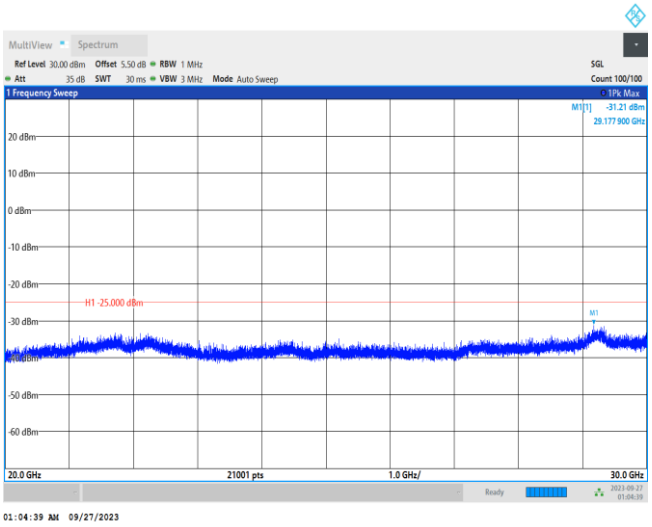
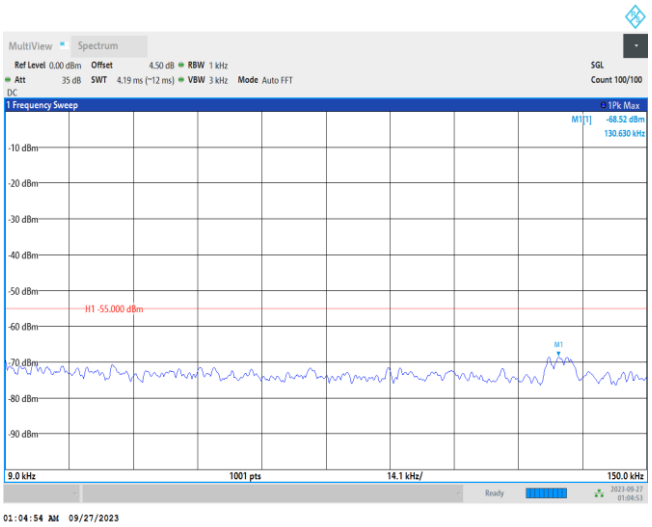
Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~30000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz



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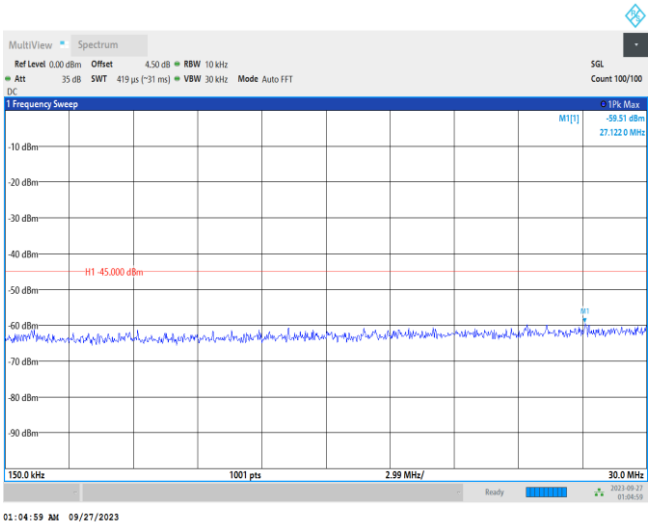
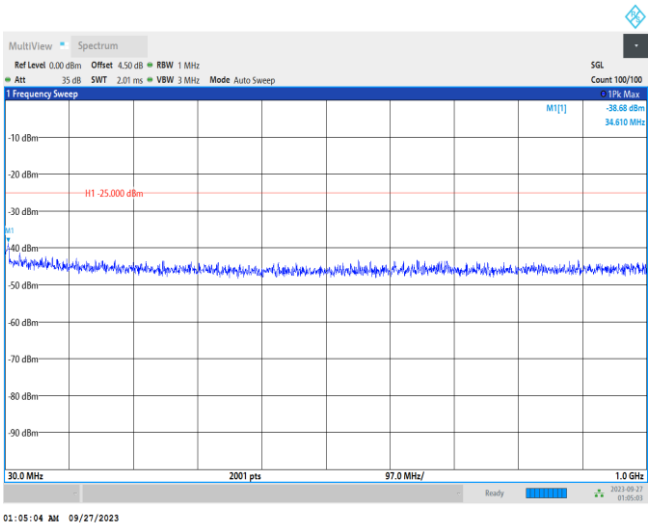
Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz



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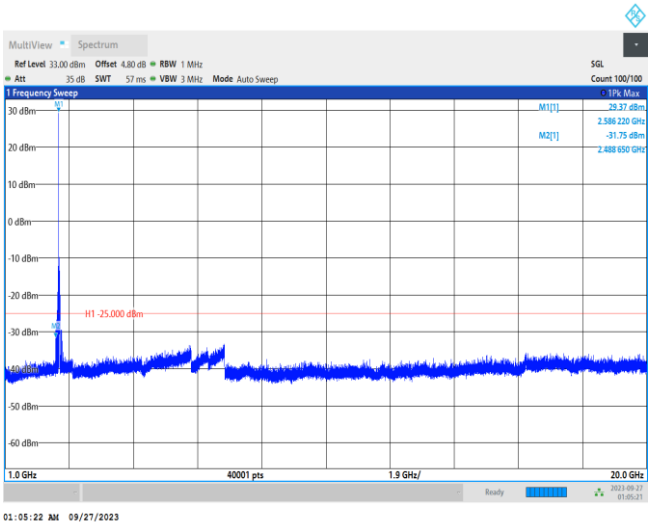
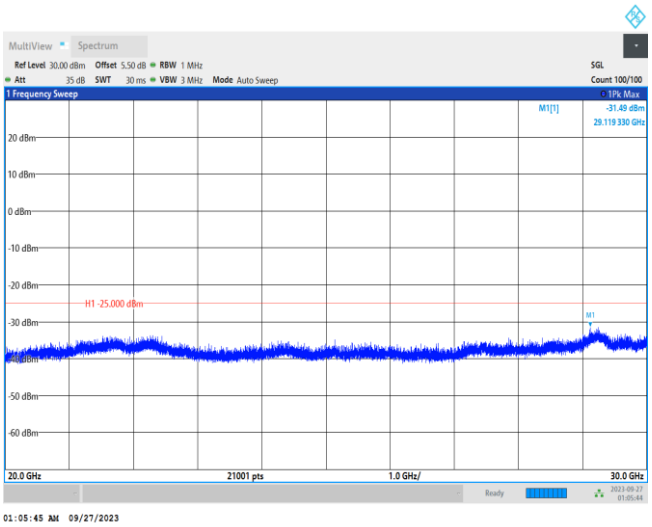
Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~30000MHz



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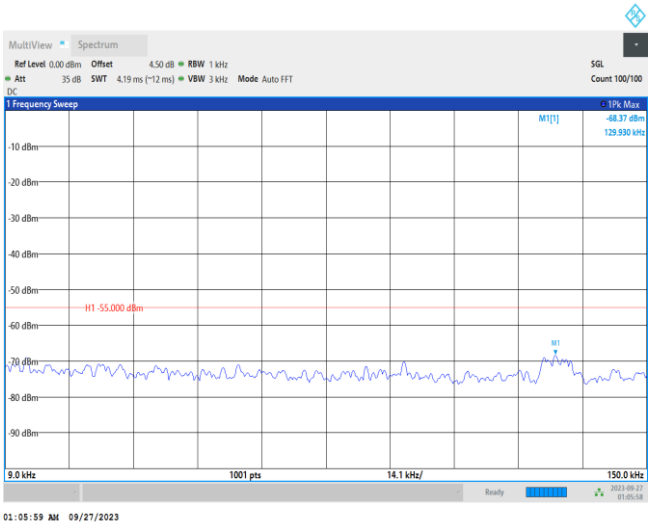
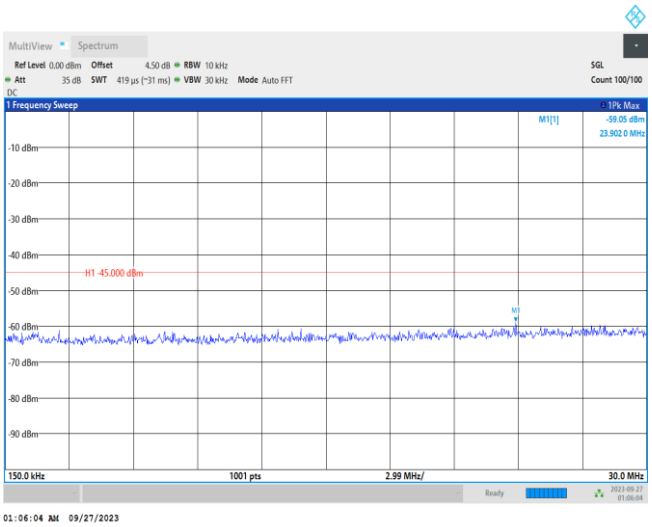
Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz



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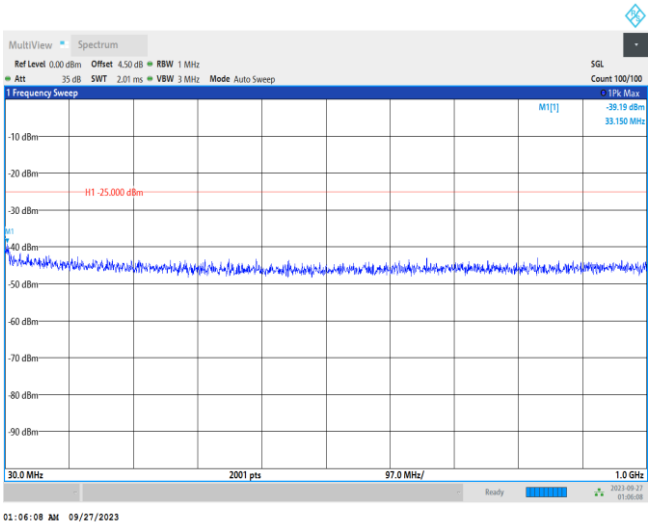
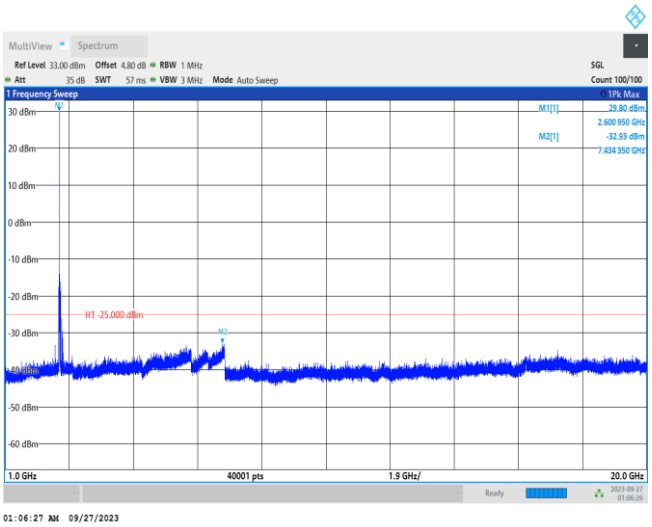
Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz



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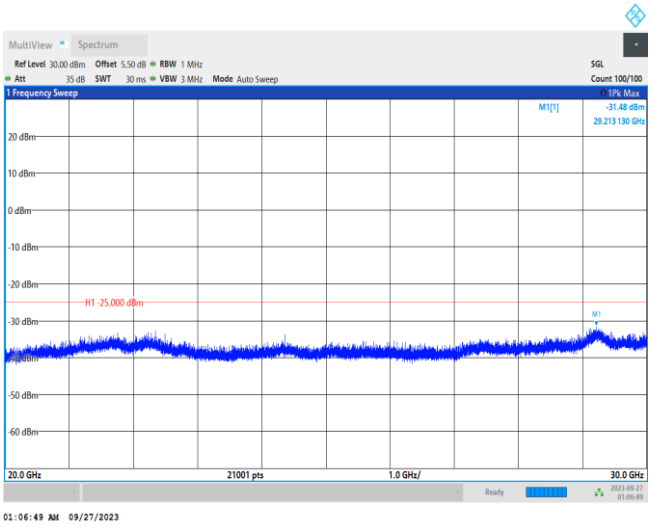
Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~30000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_38
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.55	-17.44	28.60	-46.55	-25.00	21.55	Horizontal
2	3947	47.16	-44.19	29.89	-62.40	-25.00	37.40	Horizontal
3	5524.5	50.84	-41.75	32.30	-53.87	-25.00	28.87	Horizontal
4	8466	43.35	-36.64	36.43	-52.12	-25.00	27.12	Horizontal
5	10727	43.90	-37.83	39.53	-49.66	-25.00	24.66	Horizontal
6	17992	41.66	-43.10	48.06	-48.64	-25.00	23.64	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2997	37.63	-17.43	28.58	-46.48	-25.00	21.48	Vertical
2	3940.5	47.19	-44.19	29.86	-62.40	-25.00	37.40	Vertical
3	5524.5	48.66	-41.75	32.30	-56.05	-25.00	31.05	Vertical
4	8391	43.60	-36.99	36.46	-52.19	-25.00	27.19	Vertical
5	9888.5	42.48	-35.05	38.51	-49.32	-25.00	24.32	Vertical
6	17997	40.97	-43.06	48.15	-49.20	-25.00	24.20	Vertical

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Test Band = LTE_38
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2974	37.27	-17.19	28.44	-46.74	-25.00	21.74	Horizontal
2	3956	47.00	-44.18	29.89	-62.55	-25.00	37.55	Horizontal
3	5524.5	49.69	-41.75	32.30	-55.02	-25.00	30.02	Horizontal
4	7435	44.34	-38.28	36.77	-52.43	-25.00	27.43	Horizontal
5	9877.5	42.34	-35.13	38.42	-49.63	-25.00	24.63	Horizontal
6	17987.5	41.24	-43.14	47.98	-49.18	-25.00	24.18	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2971.5	37.27	-17.14	28.43	-46.70	-25.00	21.70	Vertical
2	3926.5	47.17	-44.19	29.81	-62.47	-25.00	37.47	Vertical
3	5524.5	48.82	-41.75	32.30	-55.89	-25.00	30.89	Vertical
4	7388.5	44.19	-38.35	36.65	-52.77	-25.00	27.77	Vertical
5	9883.5	42.59	-35.09	38.47	-49.29	-25.00	24.29	Vertical
6	17992.5	41.57	-43.10	48.07	-48.72	-25.00	23.72	Vertical

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Test Band = LTE_38
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2976	37.54	-17.22	28.46	-46.48	-25.00	21.48	Horizontal
2	3941	47.26	-44.19	29.86	-62.33	-25.00	37.33	Horizontal
3	5524.5	50.57	-41.75	32.30	-54.14	-25.00	29.14	Horizontal
4	9876	42.34	-35.14	38.41	-49.65	-25.00	24.65	Horizontal
5	13588.5	43.00	-37.86	40.08	-50.04	-25.00	25.04	Horizontal
6	17993.5	41.05	-43.09	48.08	-49.22	-25.00	24.22	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2981	37.49	-17.31	28.49	-46.59	-25.00	21.59	Vertical
2	3952.5	47.08	-44.18	29.90	-62.46	-25.00	37.46	Vertical
3	5524.5	48.83	-41.75	32.30	-55.88	-25.00	30.88	Vertical
4	7435.5	43.77	-38.28	36.77	-53.00	-25.00	28.00	Vertical
5	10967	42.75	-37.13	40.13	-49.51	-25.00	24.51	Vertical
6	17986.5	41.12	-43.15	47.96	-49.33	-25.00	24.33	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	VL	NT	-8.37	-0.003225	PASS
Band38	20MHz	QPSK	38000	100RB#0	VN	NT	-21.67	-0.008351	PASS
Band38	20MHz	QPSK	38000	100RB#0	VH	NT	-11.90	-0.004586	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band38	20MHz	QPSK	38000	100RB#0	NV	-30	-14.46	-0.005572	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-20	-18.28	-0.007044	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	-10	-19.73	-0.007603	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	0	-22.09	-0.008513	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	10	-23.42	-0.009025	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	20	-19.21	-0.007403	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	30	-11.43	-0.004405	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	40	-15.46	-0.005958	PASS
Band38	20MHz	QPSK	38000	100RB#0	NV	50	-24.48	-0.009434	PASS

---End of Attachment---

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