Appendix B.21

LTE CA_38C

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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	21.8	23.49	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	19.87	21.56	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	21.79	23.48	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	19.87	21.56	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	21.76	23.45	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	20.02	21.71	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	21.19	22.88	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	18.97	20.66	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	21.18	22.87	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	19.03	20.72	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	20.97	22.66	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	18.99	20.68	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	20.02	21.71	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	18.81	20.5	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	19.97	21.66	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	18.93	20.62	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	20.04	21.73	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	18.99	20.68	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	17.33	19.02	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	17.22	18.91	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	17.01	18.7	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	17.15	18.84	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	17.23	18.92	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	17.1	18.79	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	19.82	21.51	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	21.5	23.19	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	19.94	21.63	33	PASS

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38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	21.51	23.2	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	20.02	21.71	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	21.65	23.34	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	18.9	20.59	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	20.98	22.67	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	18.95	20.64	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	20.8	22.49	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	18.94	20.63	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	20.86	22.55	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	18.88	20.57	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	19.83	21.52	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	18.96	20.65	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	19.79	21.48	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	18.83	20.52	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	19.92	21.61	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	17.24	18.93	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	16.91	18.6	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	17.26	18.95	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	17.02	18.71	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	17.18	18.87	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	16.87	18.56	33	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	7.4	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	9.38	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	9.42	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	9.82	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	9.82	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	9.84	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	10.04	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	10.06	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	10.04	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	9.86	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	9.94	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	9.88	13	PASS

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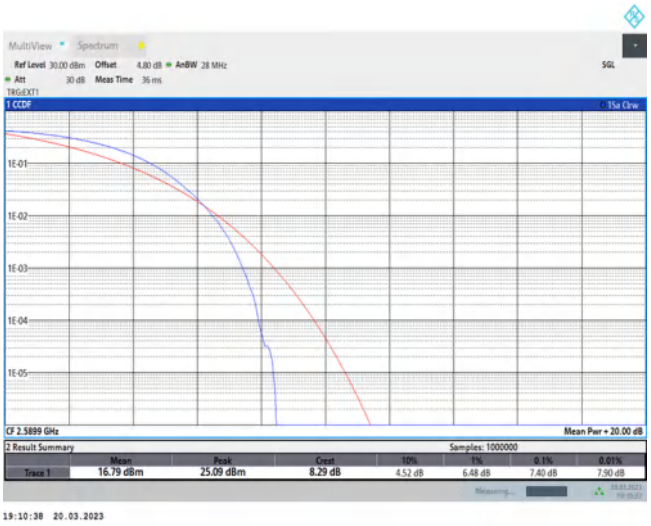
Test Graphs

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



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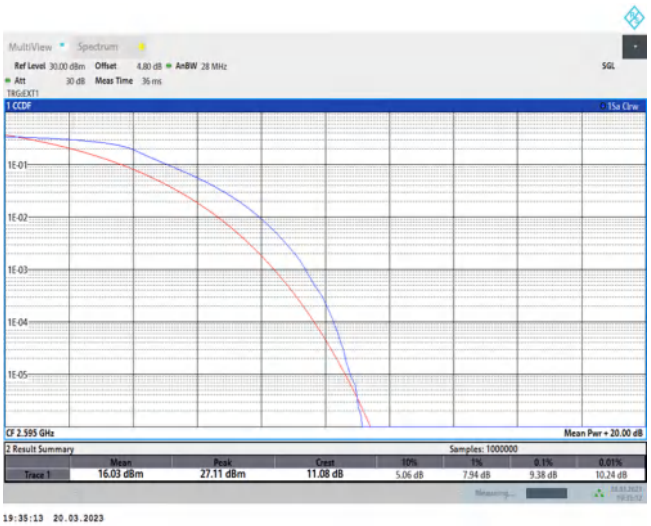

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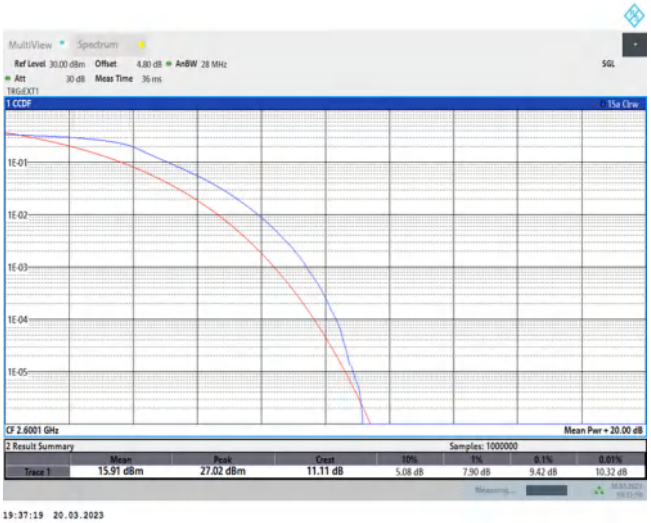

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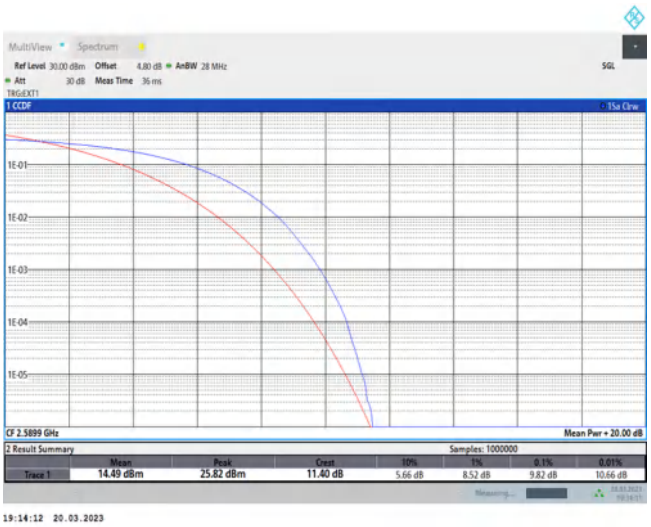

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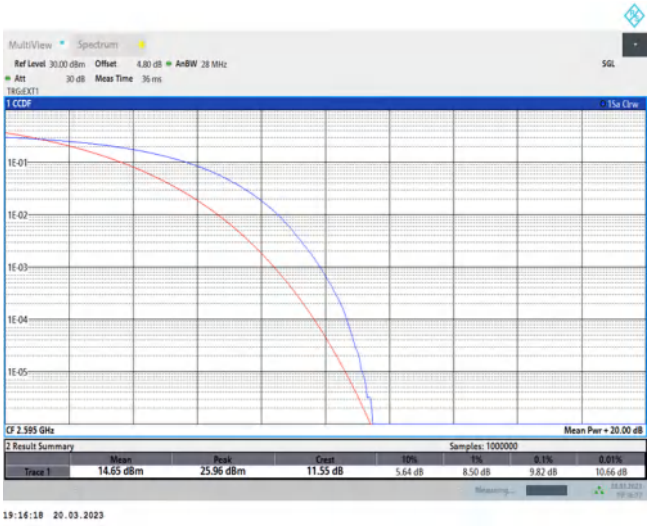
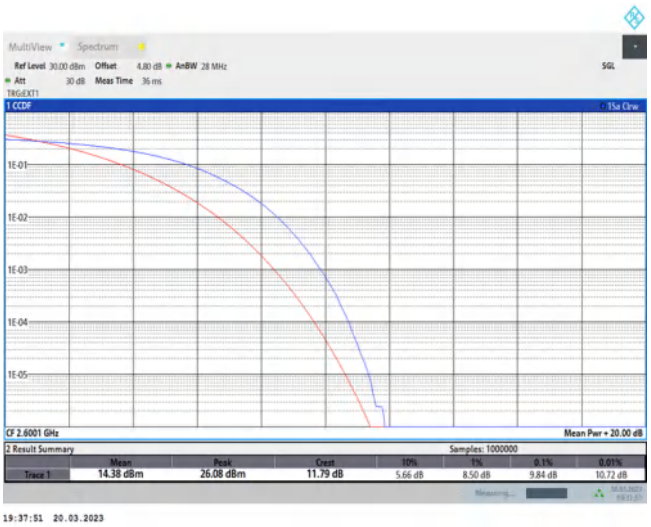


38-38-20MHz-20MHz-16QAM-16QAM-37952-38150-100RB#0-100RB#0



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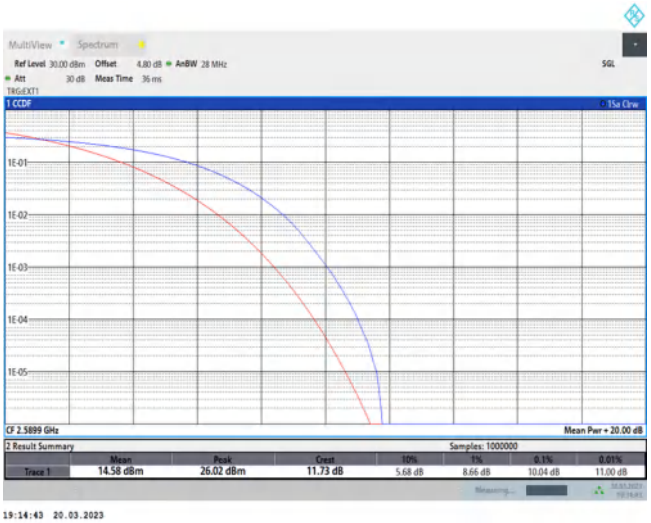

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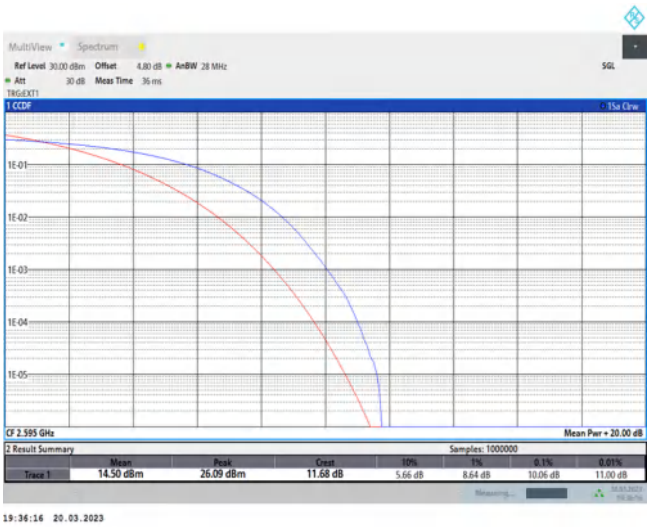

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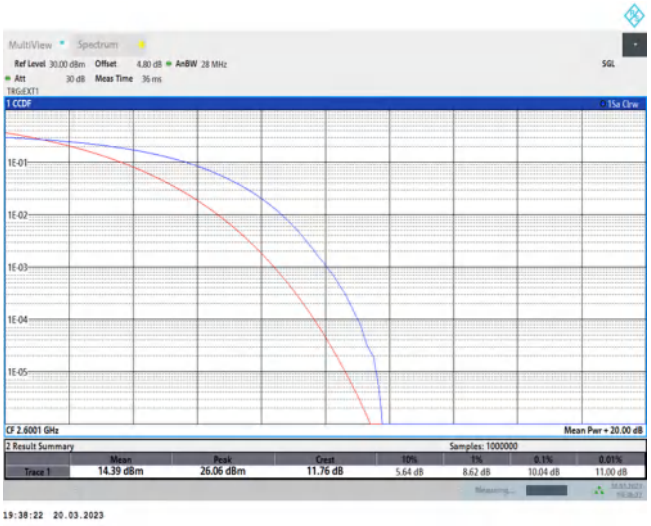
38-38-20MHz-20MHz-64QAM-64QAM-37952-38150-100RB#0-100RB#0



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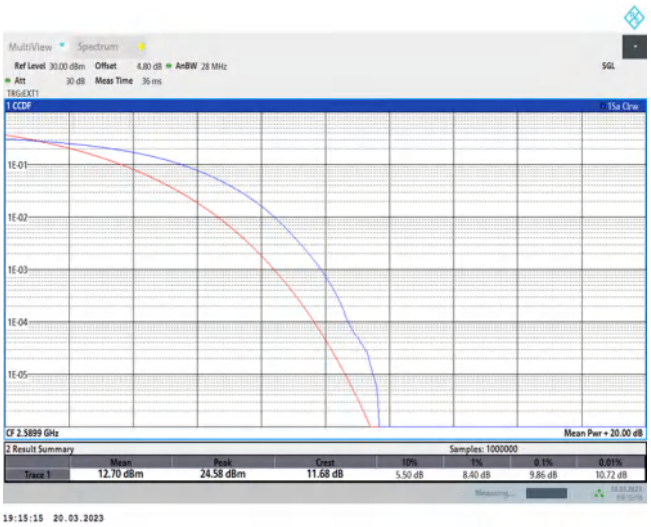

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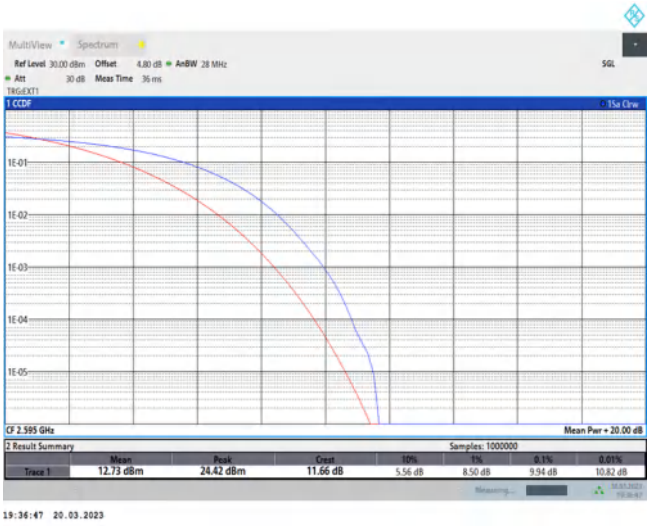
38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#0



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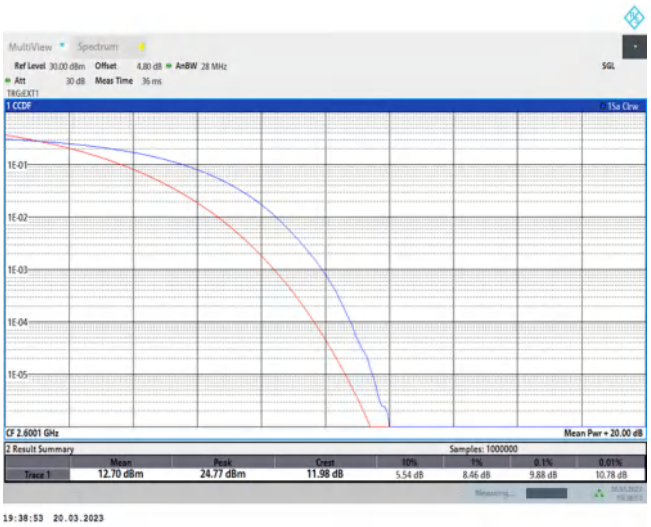

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	28.330	30.12	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.215	29.70	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.215	29.88	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.337	29.76	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.205	29.58	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.202	29.70	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.265	29.82	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.247	29.76	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.351	29.76	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	28.305	29.64	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.238	29.64	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	28.256	29.64	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.667	40.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.661	40.08	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.624	40.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.628	40.16	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.646	40.00	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.610	40.08	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.542	40.24	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.670	39.92	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.682	39.84	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	37.590	40.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.672	40.00	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	37.547	39.84	PASS

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Test Graphs

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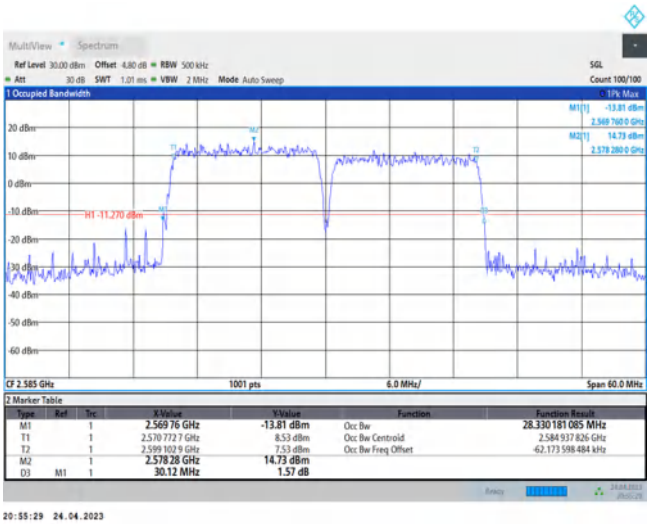

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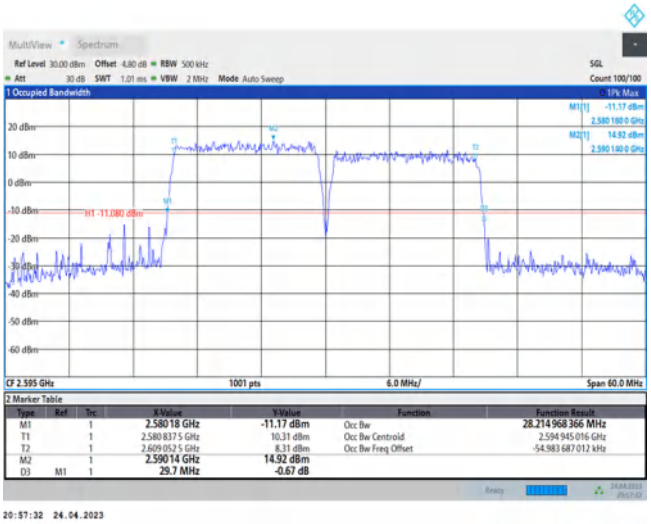

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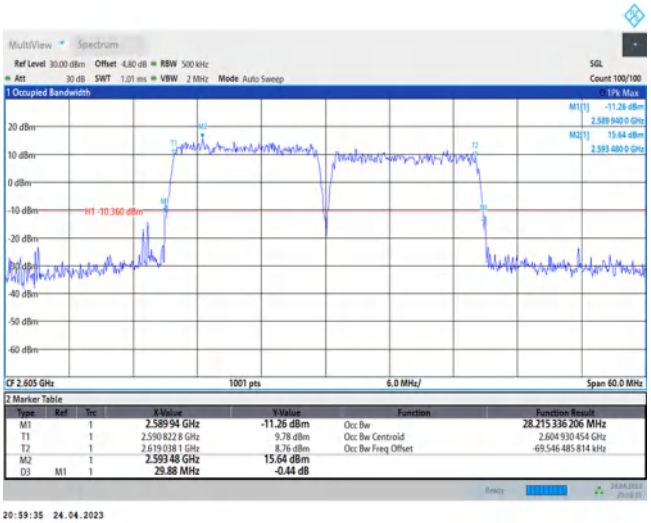

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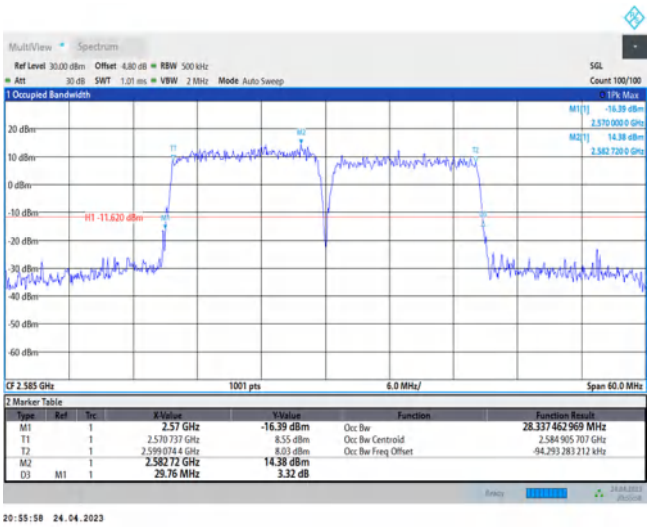

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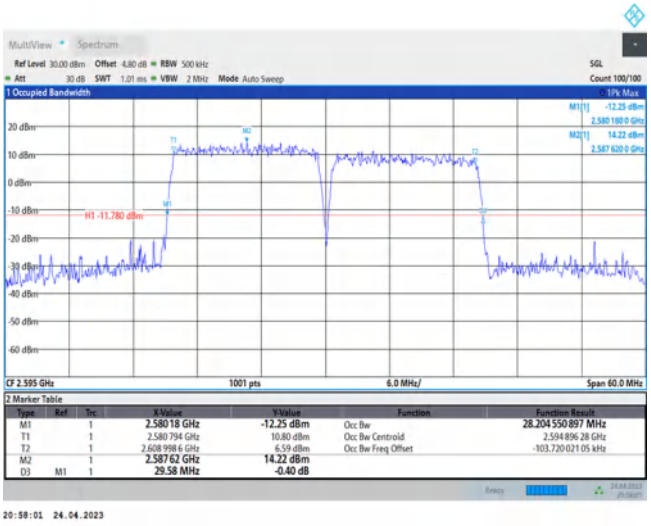

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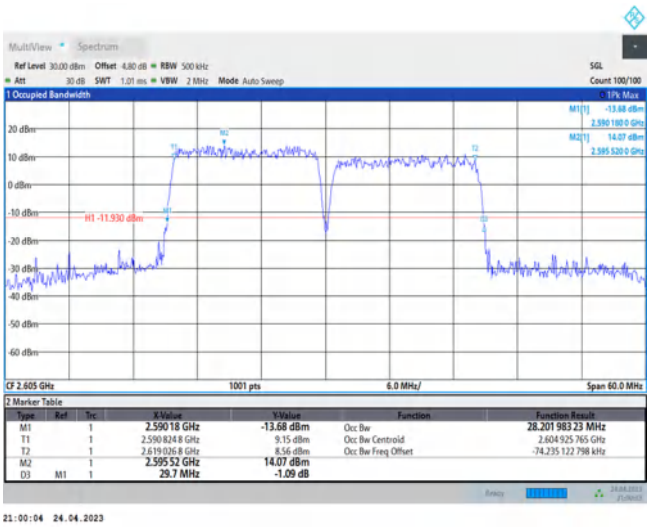

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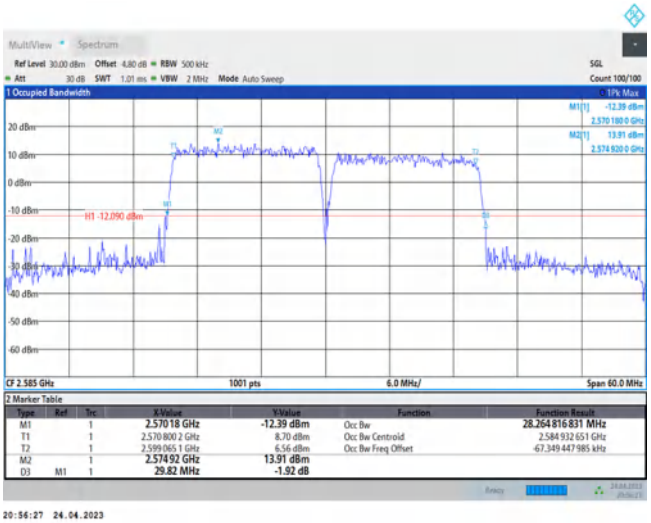

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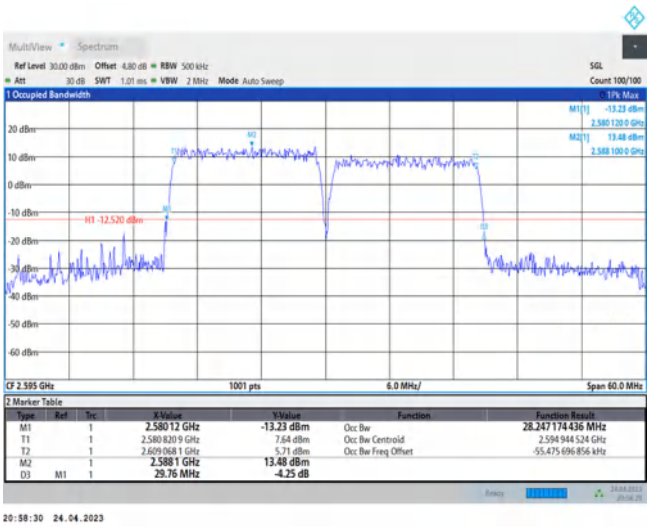

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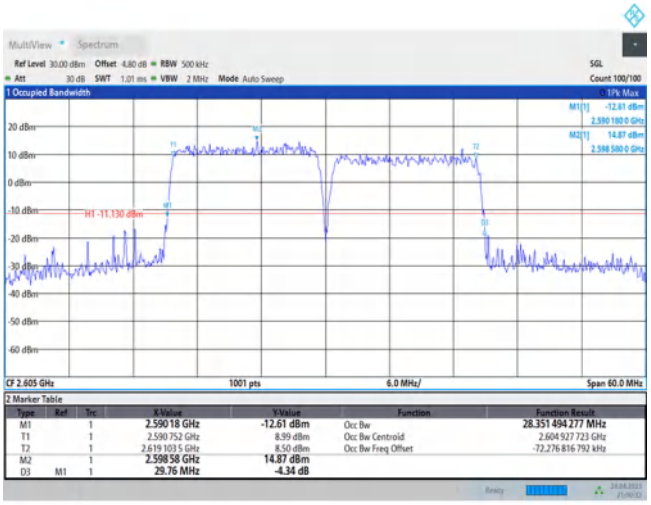

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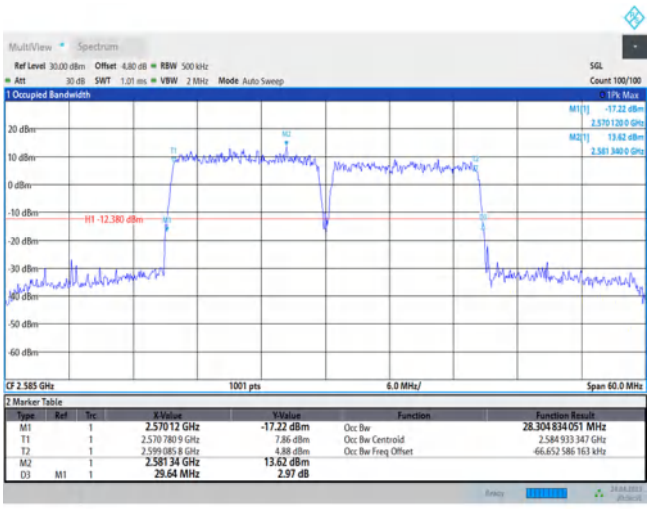

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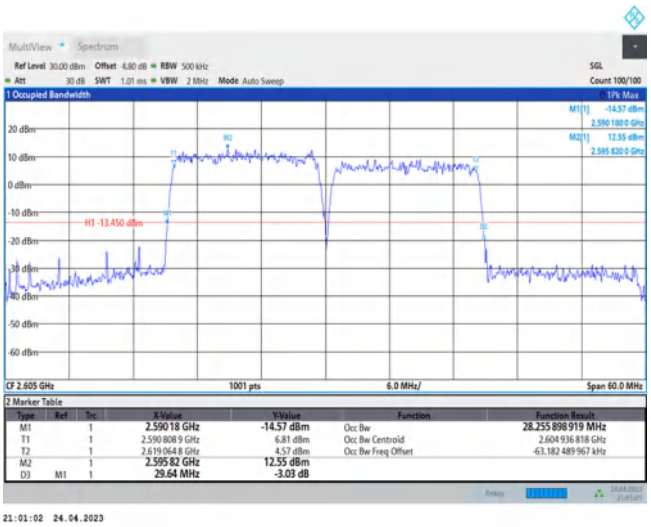

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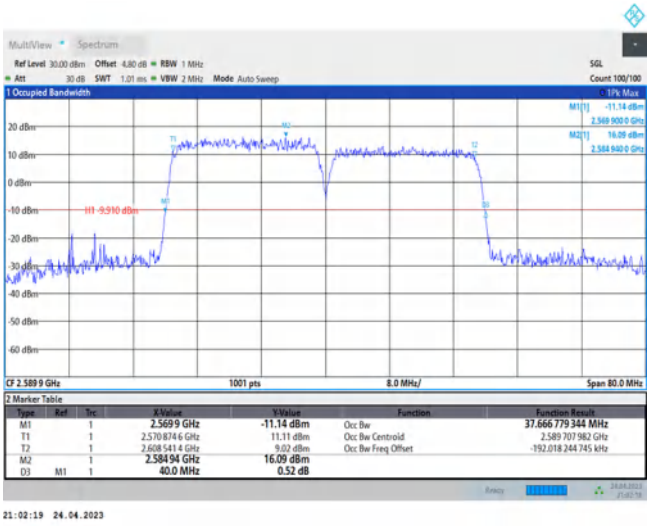
38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-100RB#0-100RB#0



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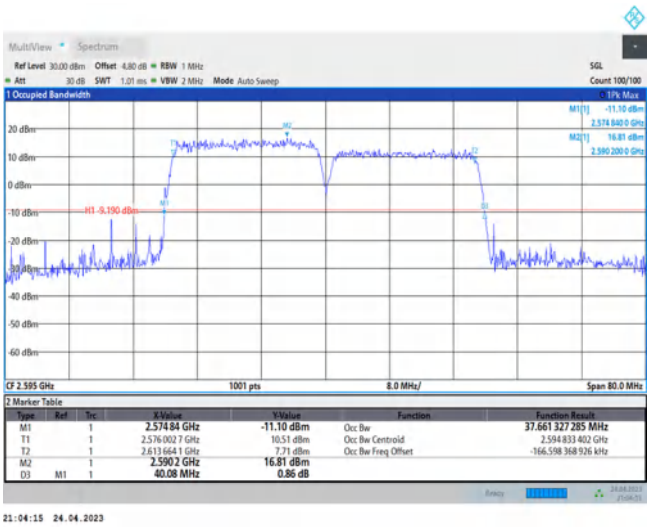

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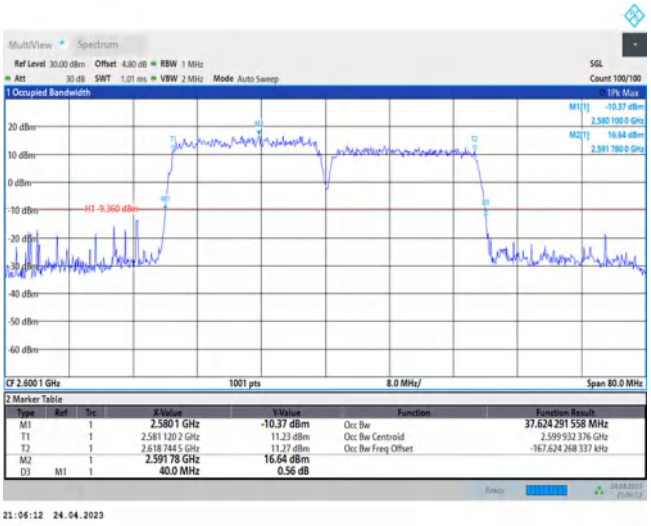

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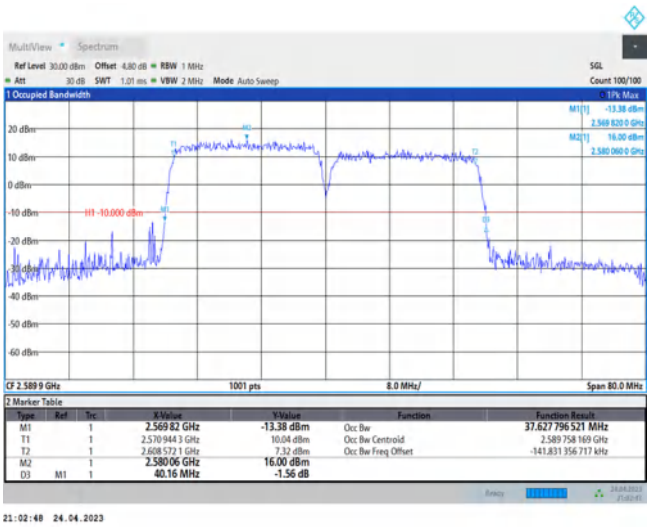

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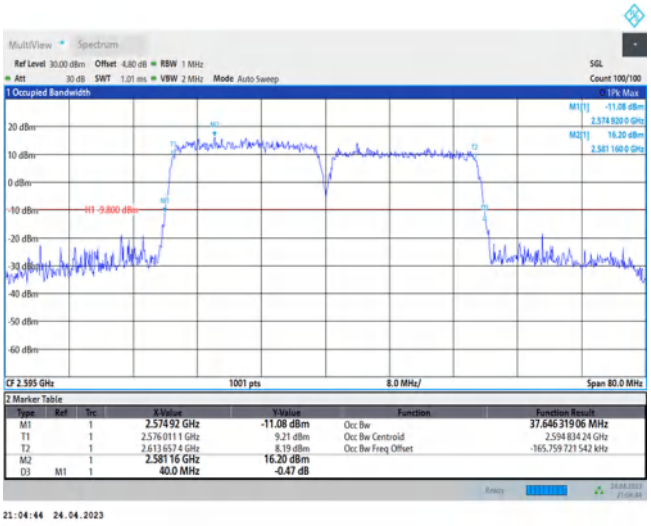

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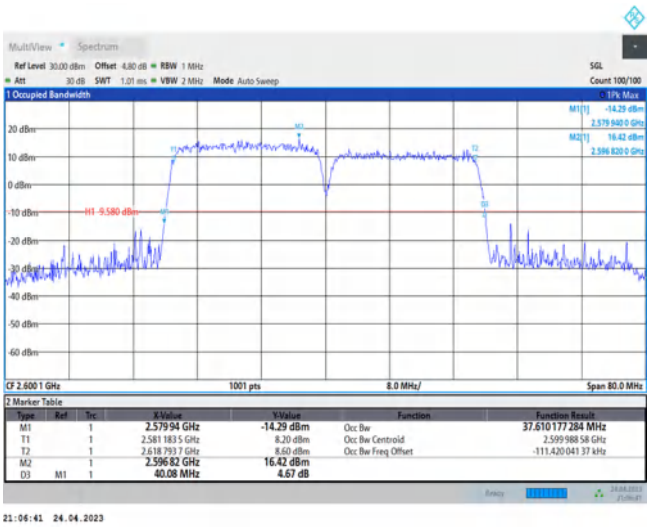

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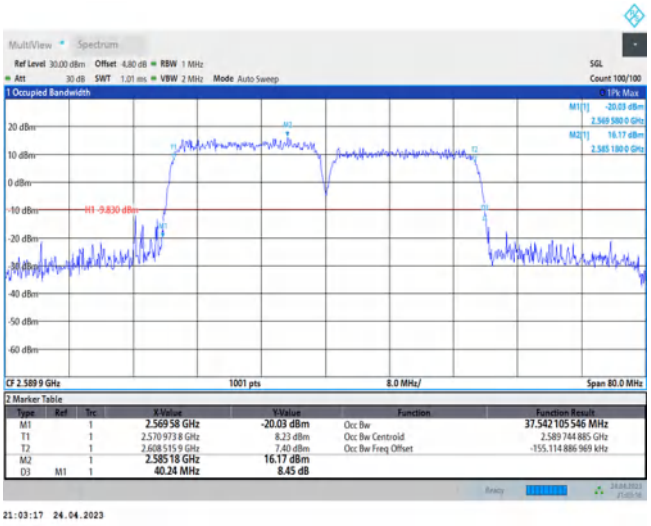

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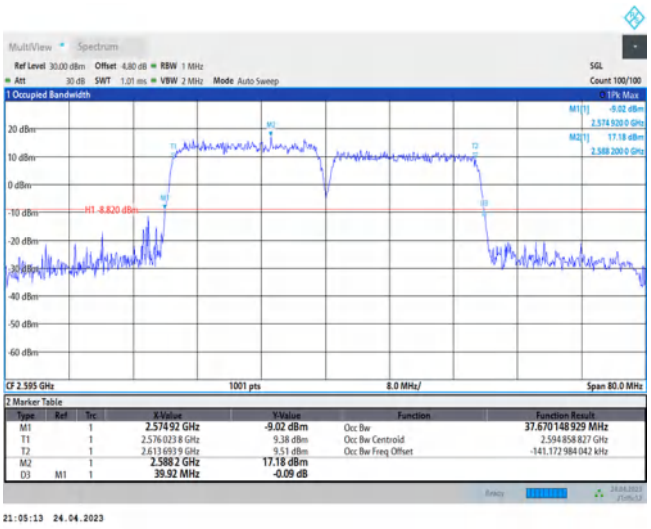

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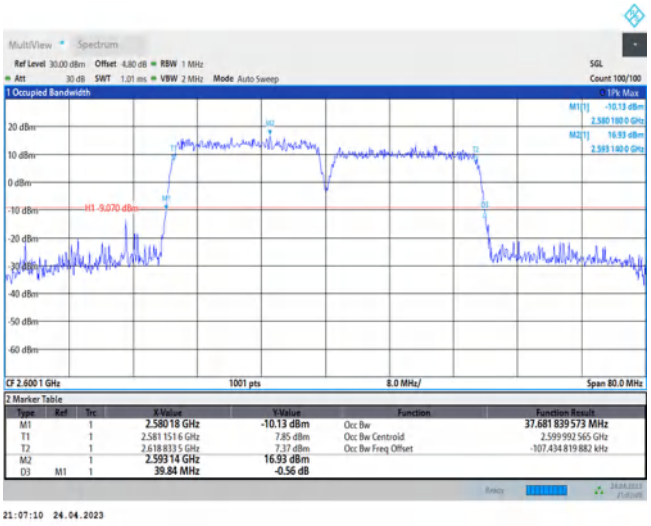

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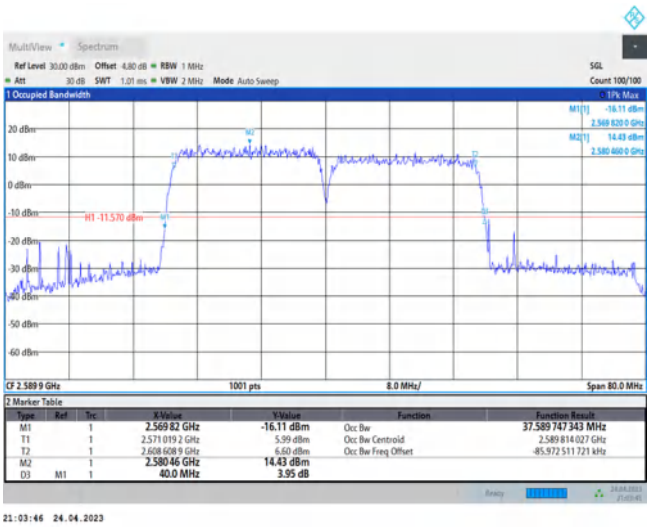

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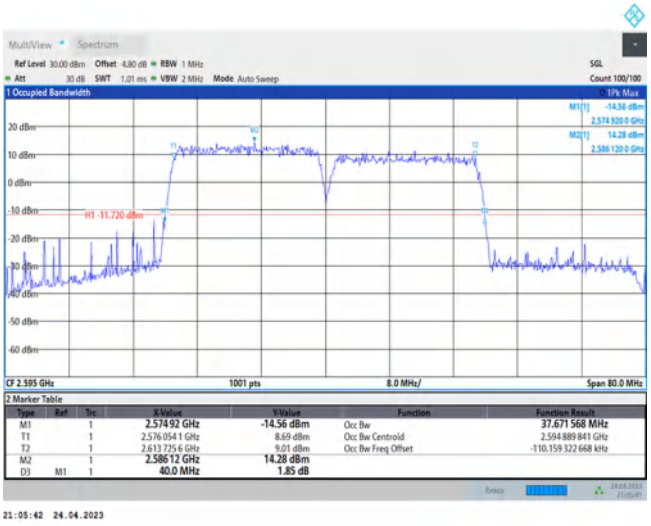

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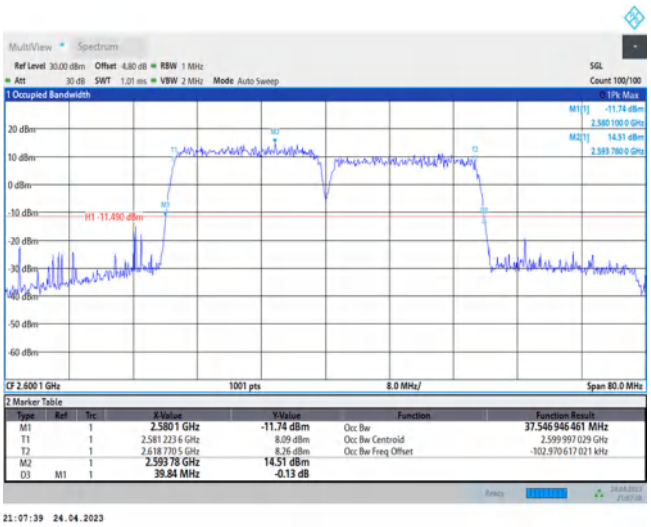

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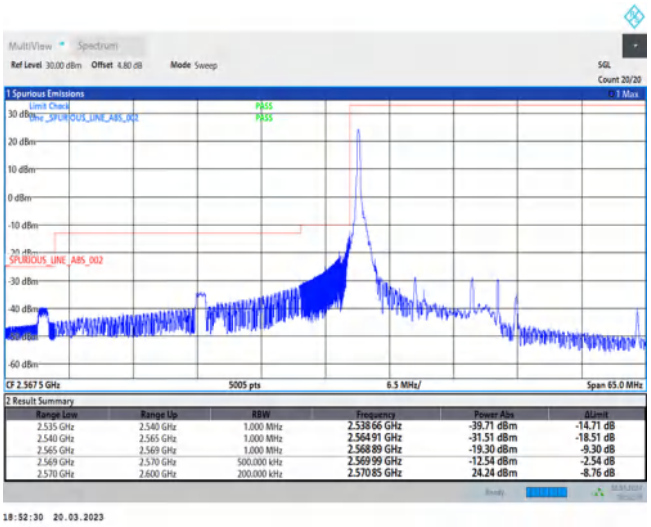
Band Edge

Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-1RB#0-0RB#0



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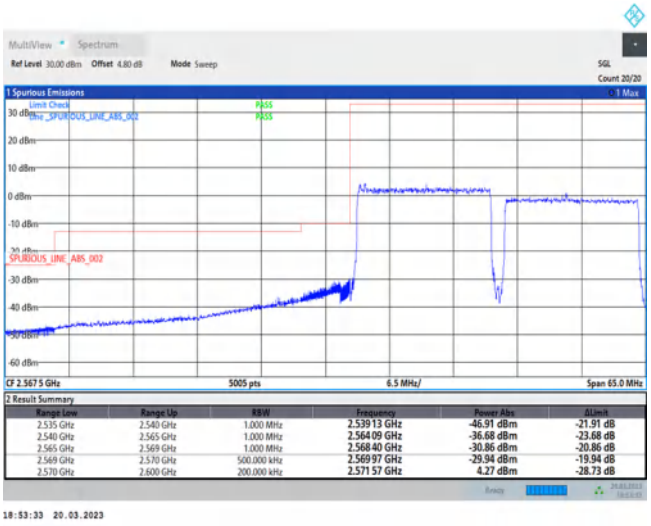

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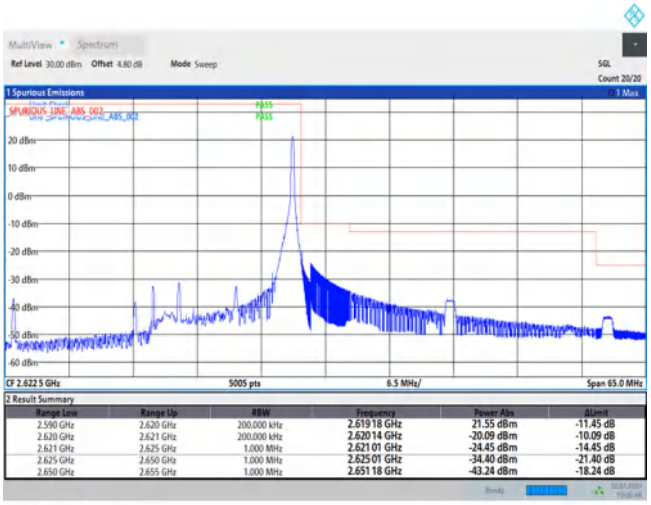

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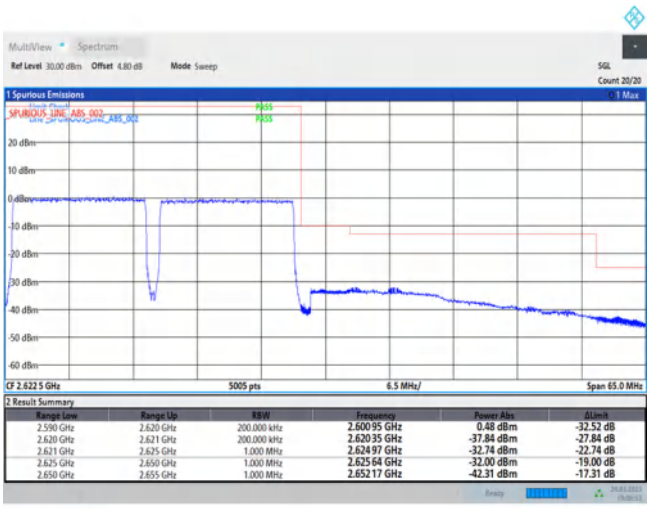

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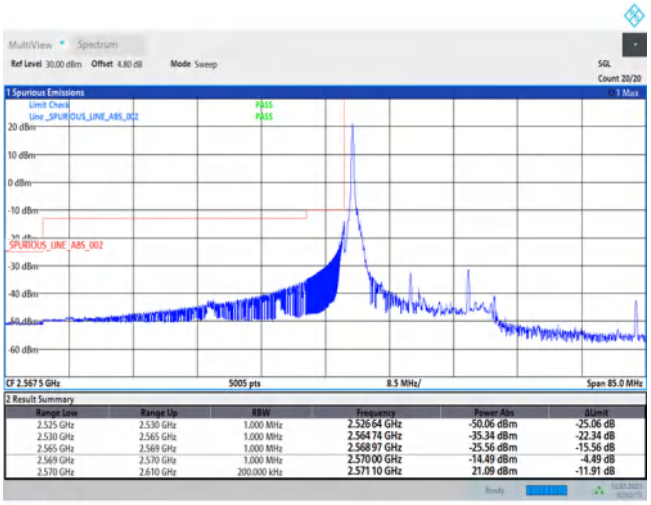

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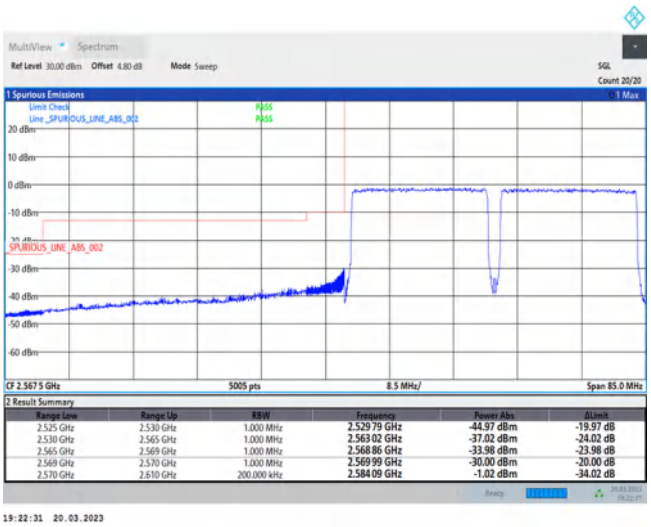

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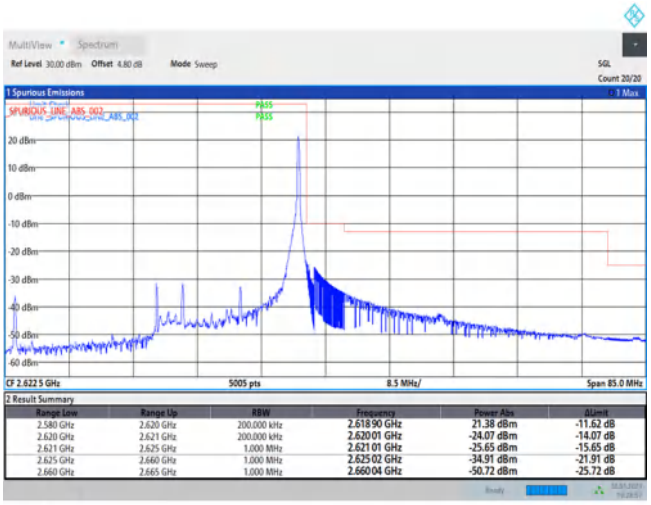

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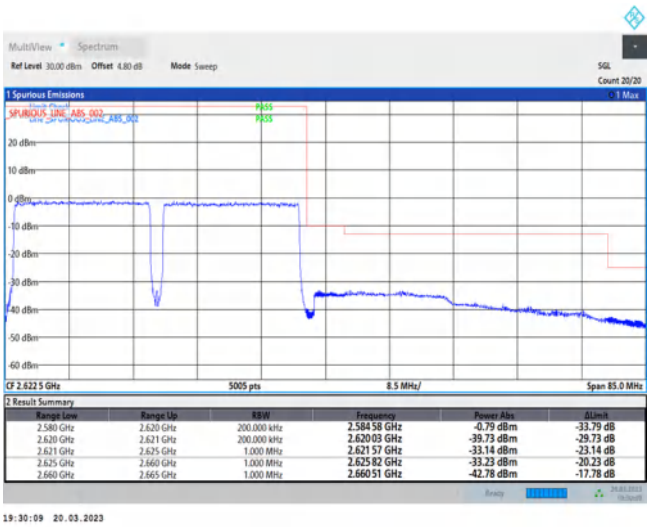

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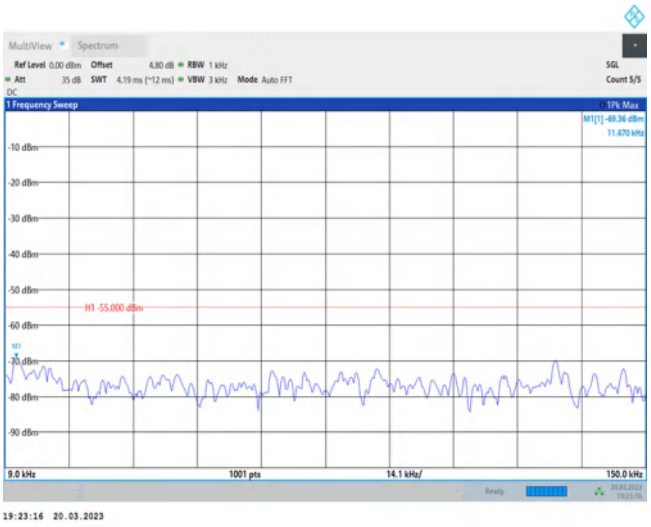
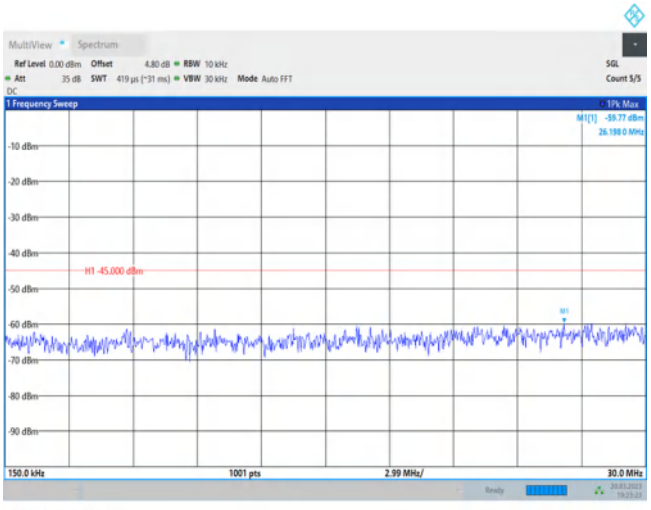
Conducted Spurious Emission

Test Graphs

38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.009~0.15MHz



38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-0.15~30MHz



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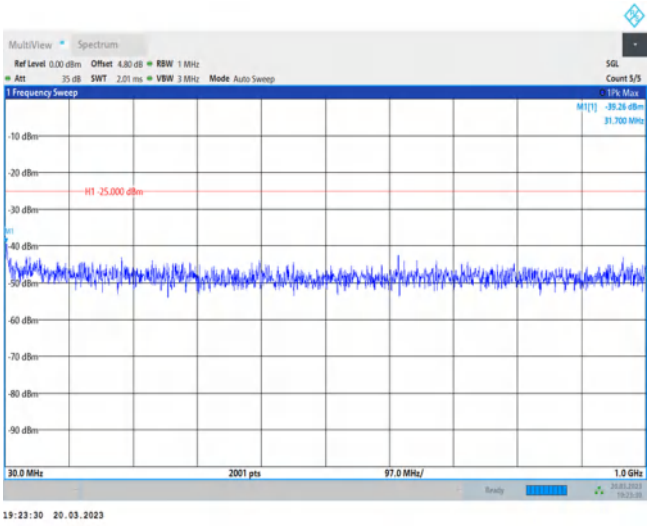
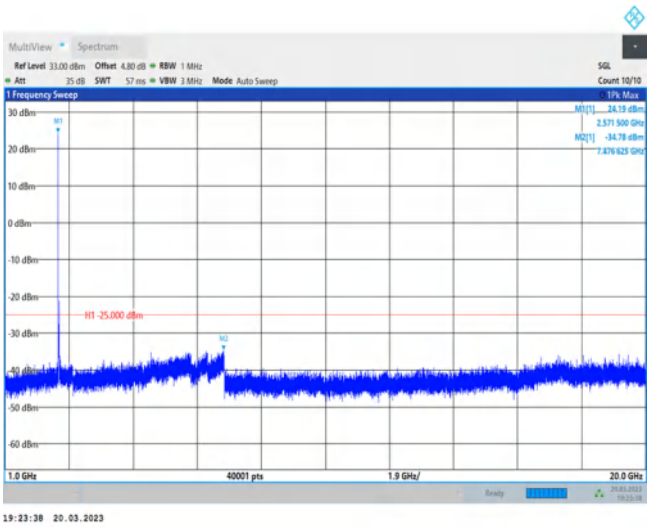
38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-30~1000MHz



38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-1000~20000MHz



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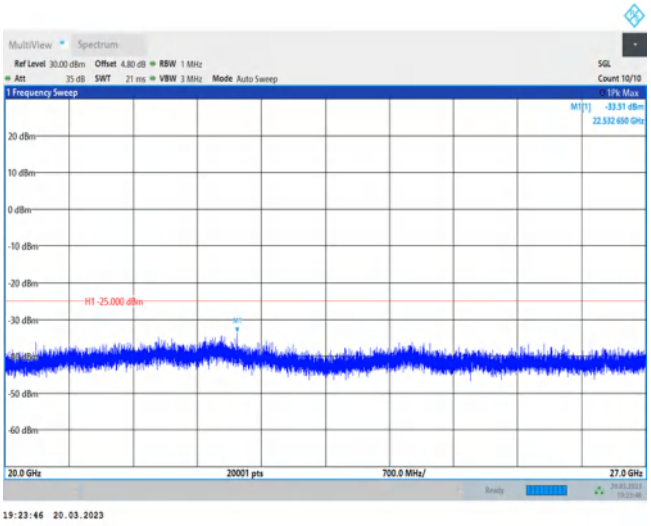
38-38-20MHz-20MHz-QPSK-QPSK-37850-38048-1RB#0-0RB#0-20000~27000MHz



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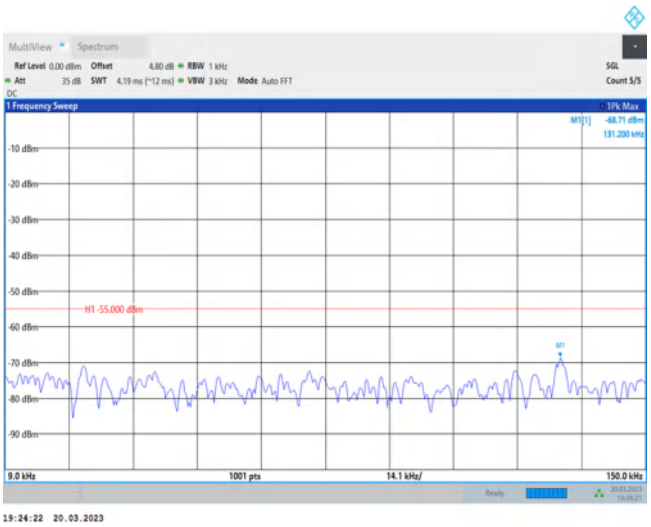

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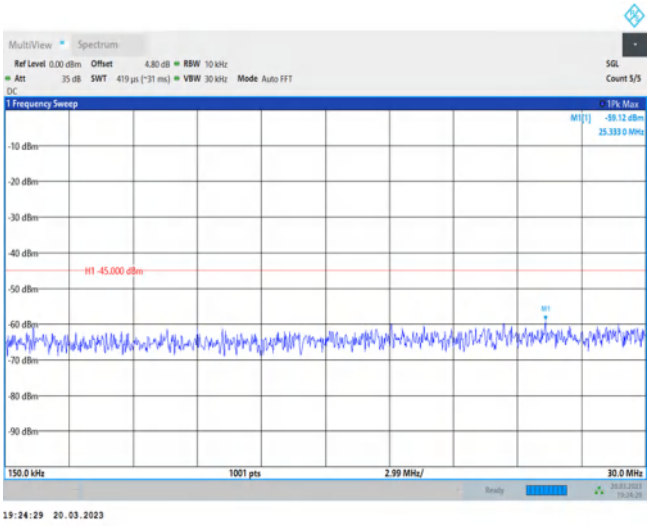
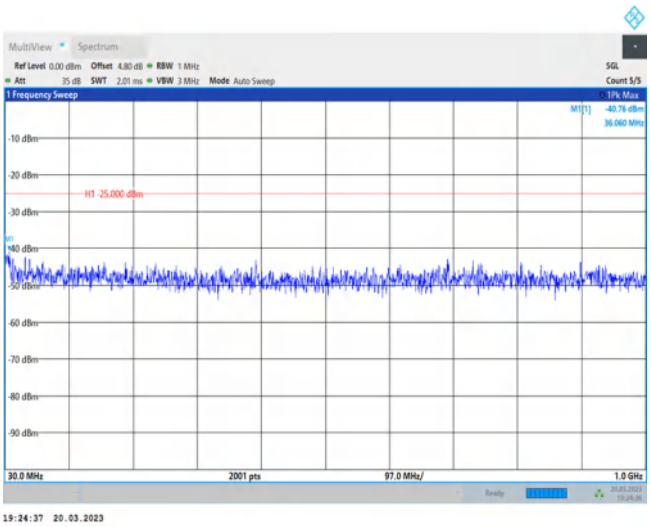


38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-30~1000MHz



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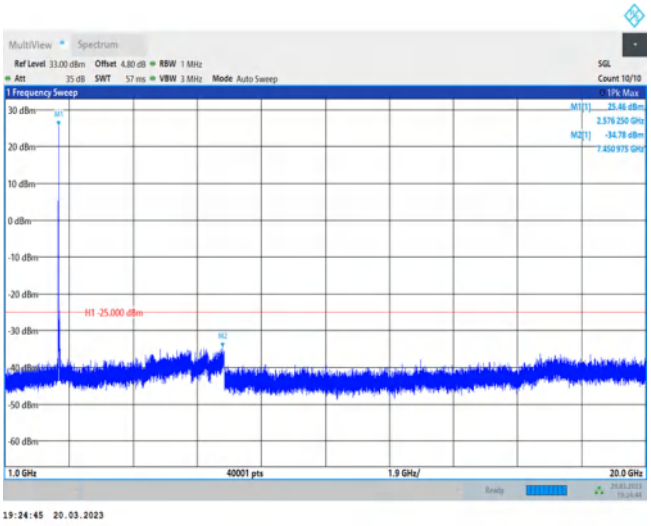
38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-1RB#0-0RB#0-1000~20000MHz



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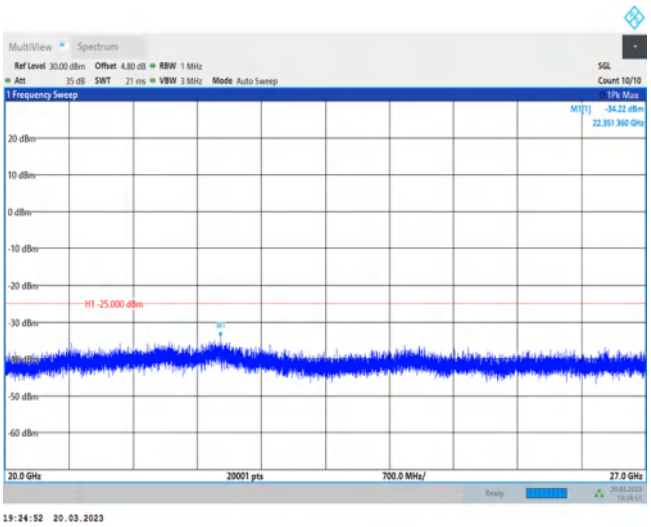

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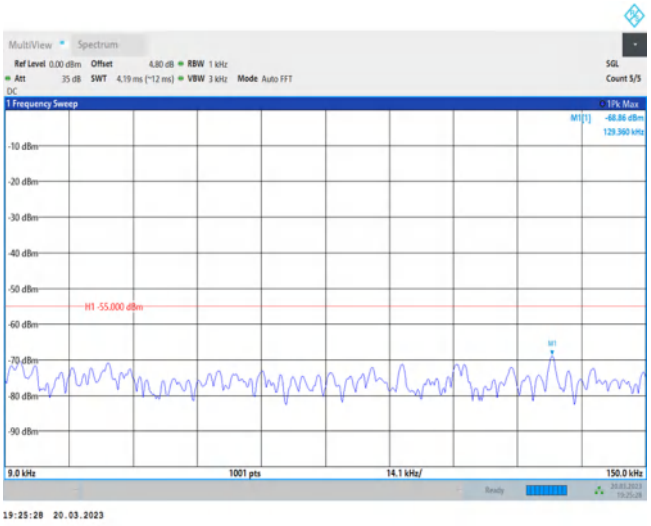

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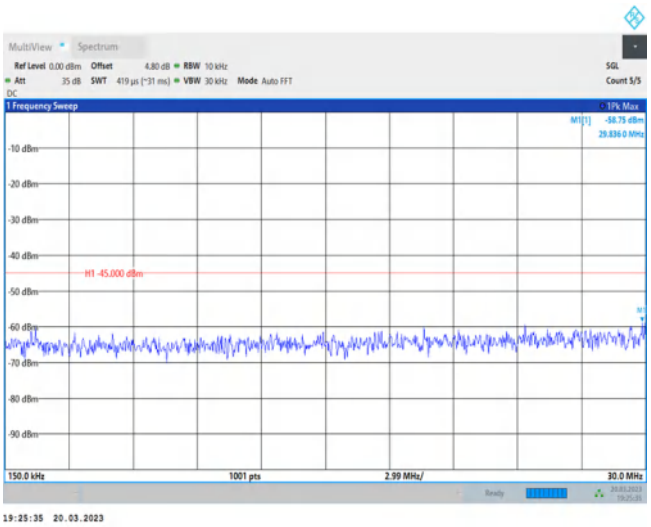

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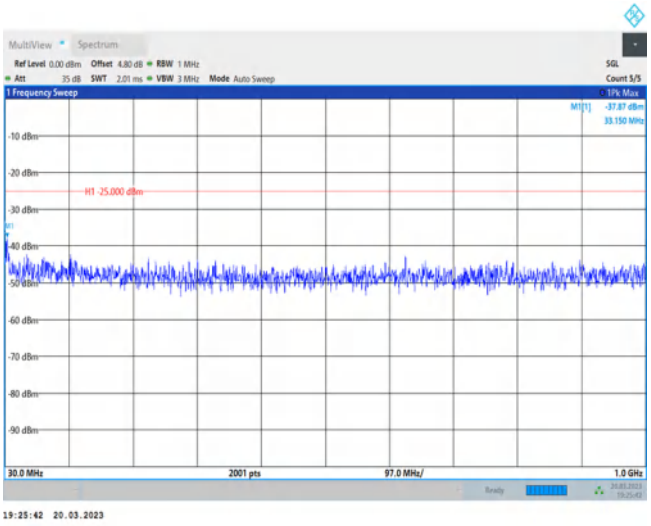

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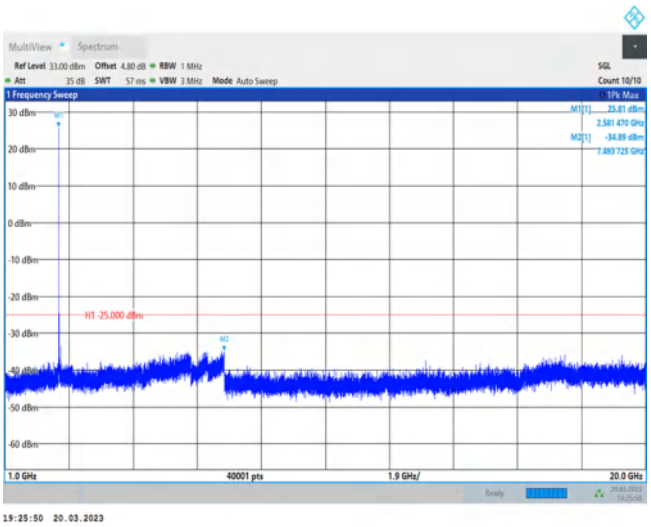

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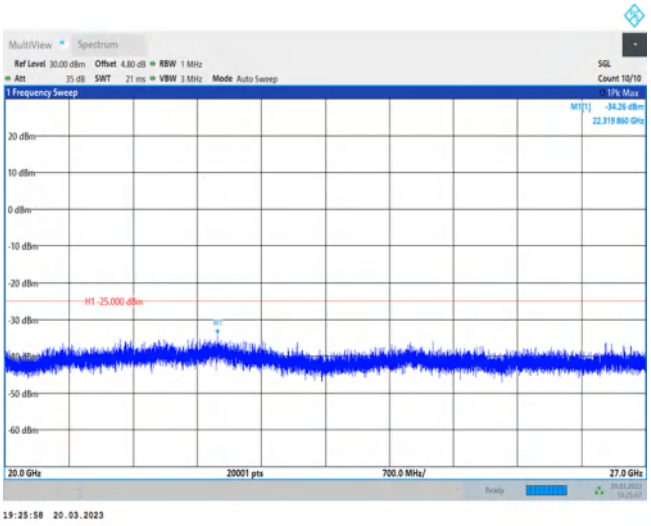

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Field Strength of Spurious Radiation

Test Band = LTE Band38C_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5151	59.39	-45.32	32.96	-48.23	-25.00	23.23	189	60	Horizontal
2	7713.2700	39.59	-43.01	36.61	-62.07	-25.00	37.07	215	14	Horizontal
3	10284.3600	34.08	-39.15	38.83	-61.50	-25.00	36.50	223	4	Horizontal
4	12855.4500	31.60	-36.99	39.69	-60.96	-25.00	35.96	194	118	Horizontal
5	15426.5400	31.21	-33.99	38.67	-59.37	-25.00	34.37	205	360	Horizontal
6	17997.6300	32.41	-34.58	42.23	-55.19	-25.00	30.19	183	73	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5151	64.67	-45.32	32.96	-42.95	-25.00	17.95	208	120	Vertical
2	7726.5	44.38	-42.91	36.64	-57.15	-25.00	32.15	142	120	Vertical
3	10302	40.34	-39.09	38.84	-55.17	-25.00	30.17	139	134	Vertical
4	12855.4500	32.18	-36.99	39.69	-60.38	-25.00	35.38	284	300	Vertical
5	15426.5400	30.47	-33.99	38.67	-60.11	-25.00	35.11	156	269	Vertical
6	17997.6300	32.43	-34.58	42.23	-55.17	-25.00	30.17	228	360	Vertical

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Test Band = LTE Band38C_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3975	43.07	-46.10	30.74	-67.55	-25.00	42.55	219	360	Horizontal
2	5177.25	48.19	-45.30	32.98	-59.39	-25.00	34.39	305	90	Horizontal
3	7728.5700	39.28	-42.89	36.64	-62.23	-25.00	37.23	289	30	Horizontal
4	10304.7600	34.90	-39.09	38.84	-60.61	-25.00	35.61	164	29	Horizontal
5	12880.9500	32.48	-37.06	39.71	-60.13	-25.00	35.13	257	360	Horizontal
6	15457.1400	30.66	-34.57	38.63	-60.54	-25.00	35.54	143	118	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4005	43.56	-46.03	30.81	-66.92	-25.00	41.92	187	283	Vertical
2	5167.5	53.65	-45.31	32.97	-53.95	-25.00	28.95	149	88	Vertical
3	7728.5700	38.97	-42.89	36.64	-62.54	-25.00	37.54	208	343	Vertical
4	10304.7600	33.64	-39.09	38.84	-61.87	-25.00	36.87	216	88	Vertical
5	12880.9500	31.31	-37.06	39.71	-61.30	-25.00	36.30	238	284	Vertical
6	15457.1400	30.06	-34.57	38.63	-61.14	-25.00	36.14	306	3	Vertical

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Test Band = LTE Band38C_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3923.25	42.81	-46.22	30.62	-68.05	-25.00	43.05	199	360	Horizontal
2	5184	51.10	-45.29	32.98	-56.47	-25.00	31.47	267	59	Horizontal
3	7743.8700	39.39	-42.76	36.67	-61.96	-25.00	36.96	100	360	Horizontal
4	10325.1600	34.04	-39.07	38.84	-61.45	-25.00	36.45	249	299	Horizontal
5	12906.4500	32.35	-37.12	39.74	-60.30	-25.00	35.30	251	352	Horizontal
6	15487.7400	29.14	-35.15	38.59	-62.68	-25.00	37.68	178	164	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3696.75	42.24	-45.52	29.96	-68.58	-25.00	43.58	233	88	Vertical
2	5187.75	55.11	-45.29	32.98	-52.46	-25.00	27.46	174	120	Vertical
3	7743.8700	40.17	-42.76	36.67	-61.18	-25.00	36.18	219	360	Vertical
4	10325.1600	35.02	-39.07	38.84	-60.47	-25.00	35.47	266	165	Vertical
5	12906.4500	31.91	-37.12	39.74	-60.74	-25.00	35.74	283	359	Vertical
6	15487.7400	29.67	-35.15	38.59	-62.15	-25.00	37.15	152	29	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	VH	NT	38.80	0.015009	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	VL	NT	30.60	0.011837	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	VN	NT	43.50	0.016827	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	30	40.20	0.015551	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	20	55.40	0.021431	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	10	51.10	0.019767	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	0	34.90	0.013500	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-10	37.20	0.014390	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-20	47.00	0.018181	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-30	40.70	0.015744	PASS
38-38	20MHz-20MHz	QPSK -QPSK	37901-38099	100RB#0-100RB#0	NV	-50	48.60	0.018800	PASS

---End of Attachment---

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