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Appendix B.23

LTE CA_38C



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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
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	1RB#0-0RB#0	25.31	25.08	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	24.38	24.15	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	1RB#0-0RB#0	25.25	25.02	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	24.31	24.08	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	1RB#0-0RB#0	25.54	25.31	33	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	24.44	24.21	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	1RB#0-0RB#0	24.22	23.99	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	23.28	23.05	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	1RB#0-0RB#0	24.32	24.09	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	23.31	23.08	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	1RB#0-0RB#0	24.58	24.35	33	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	23.51	23.28	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	1RB#0-0RB#0	23.26	23.03	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	23.32	23.09	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	1RB#0-0RB#0	23.55	23.32	33	PASS



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38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	23.48	23.25	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	1RB#0-0RB#0	23.71	23.48	33	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	23.38	23.15	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	1RB#0-0RB#0	20.23	20.00	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	21.40	21.17	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	1RB#0-0RB#0	20.53	20.30	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	21.28	21.05	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	1RB#0-0RB#0	20.33	20.10	33	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	21.43	21.20	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	24.17	23.94	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	1RB#0-0RB#0	25.39	25.16	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	24.31	24.08	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	1RB#0-0RB#0	25.39	25.16	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	24.47	24.24	33	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	1RB#0-0RB#0	25.28	25.05	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	23.19	22.96	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	1RB#0-0RB#0	24.32	24.09	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	23.29	23.06	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	1RB#0-0RB#0	24.40	24.17	33	PASS



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38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	23.32	23.09	33	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	1RB#0-0RB#0	24.31	24.08	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	23.45	23.22	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	1RB#0-0RB#0	23.45	23.22	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	23.33	23.10	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	1RB#0-0RB#0	23.44	23.21	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	23.57	23.34	33	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	1RB#0-0RB#0	23.29	23.06	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	21.43	21.20	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	1RB#0-0RB#0	20.41	20.18	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	21.30	21.07	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	1RB#0-0RB#0	20.20	19.97	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	21.35	21.12	33	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	1RB#0-0RB#0	20.45	20.22	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	9.70	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	9.76	13	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	9.62	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	10.24	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	10.28	13	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	10.26	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	10.34	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	10.32	13	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	10.34	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	10.40	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	10.56	13	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	10.58	13	PASS



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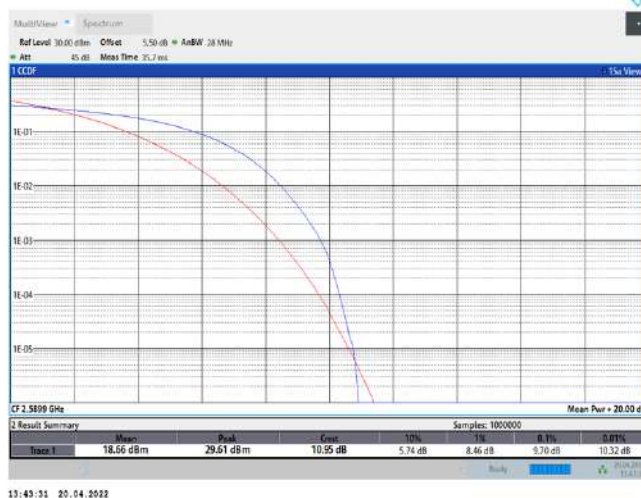
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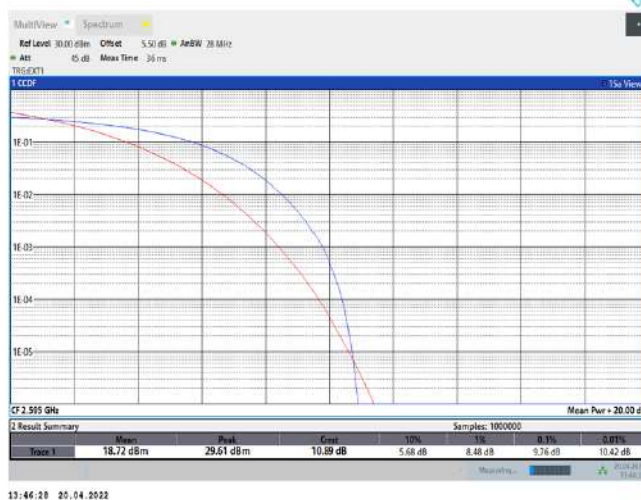
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Test Graphs

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



38-38-20MHz-20MHz-QPSK-QPSK-37901-38099-100RB#0-100RB#0



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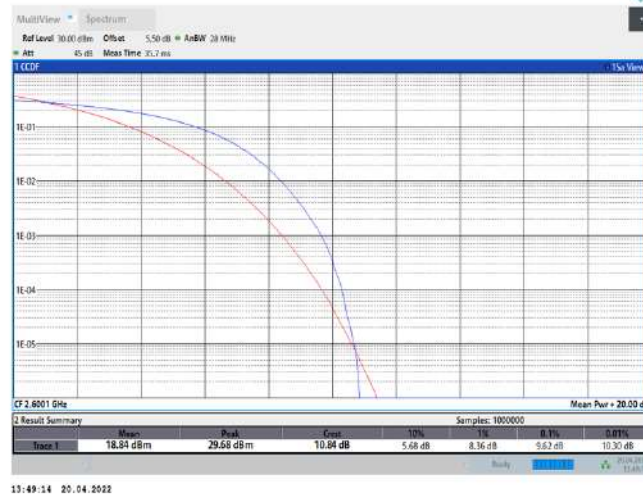
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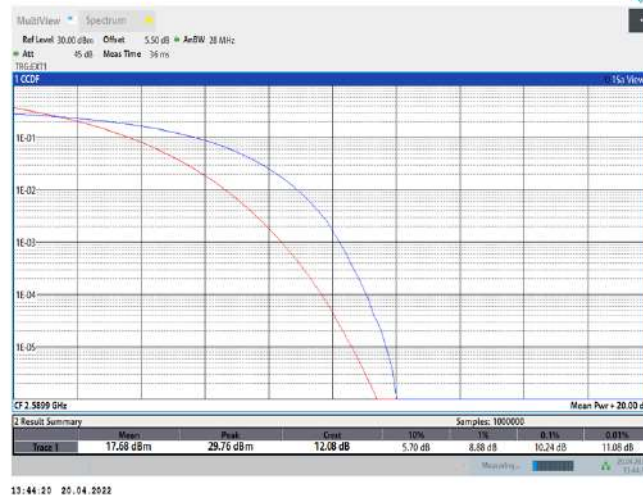
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38-38-20MHz-20MHz-QPSK-QPSK-37952-38150-100RB#0-100RB#0



38-38-20MHz-20MHz-16QAM-16QAM-37850-38048-100RB#0-100RB#0



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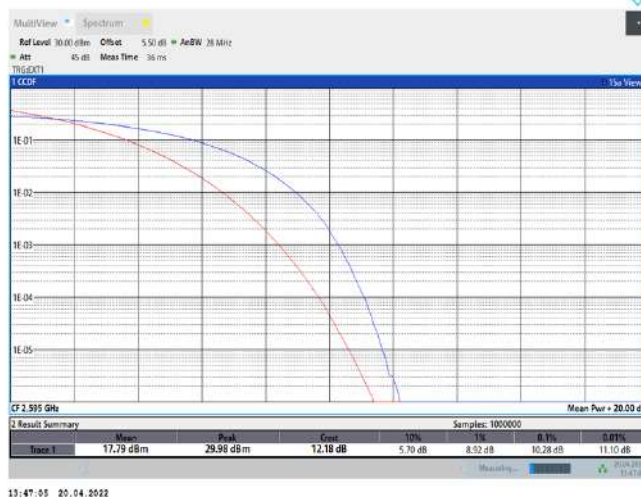
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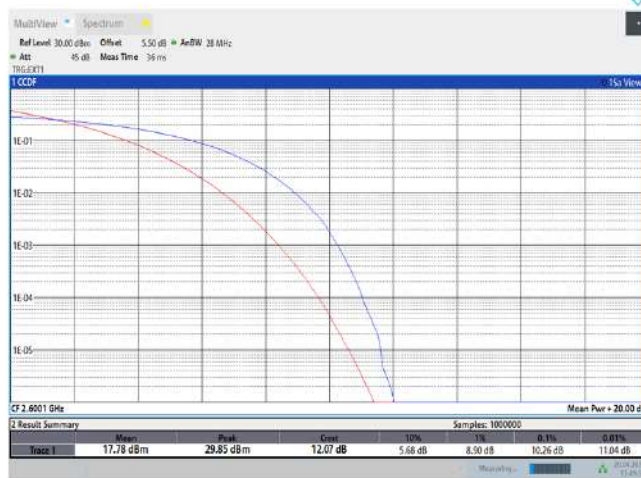
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38-38-20MHz-20MHz-16QAM-16QAM-37901-38099-100RB#0-100RB#0



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



13:49:57 20.04.2022



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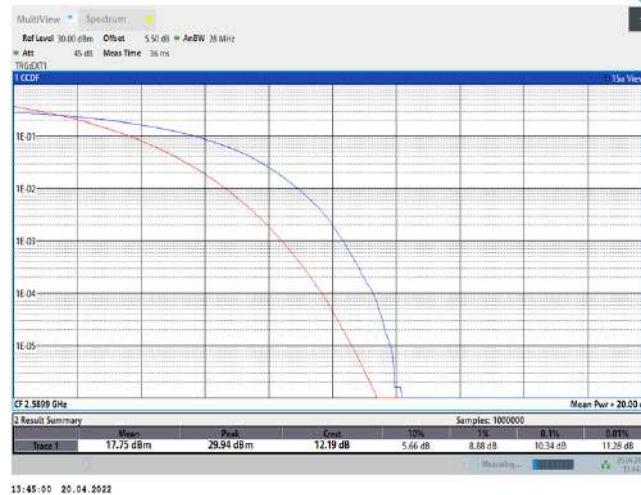
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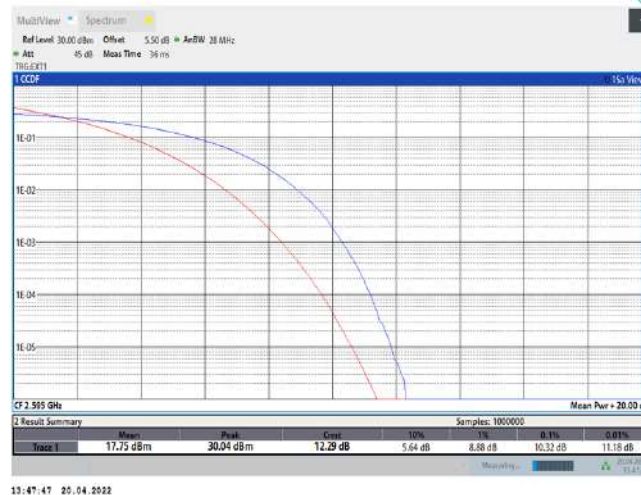
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



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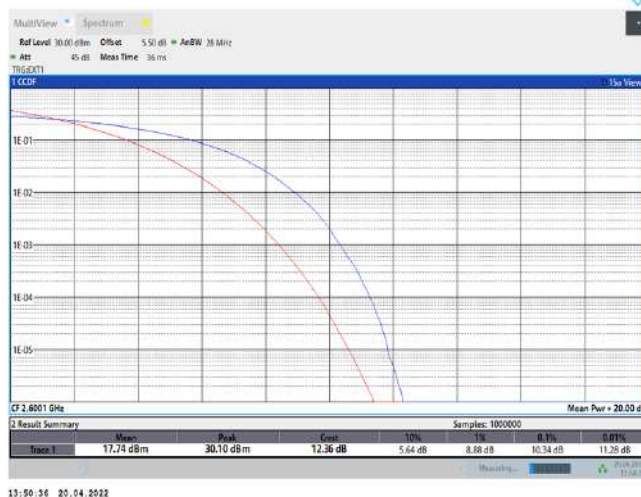
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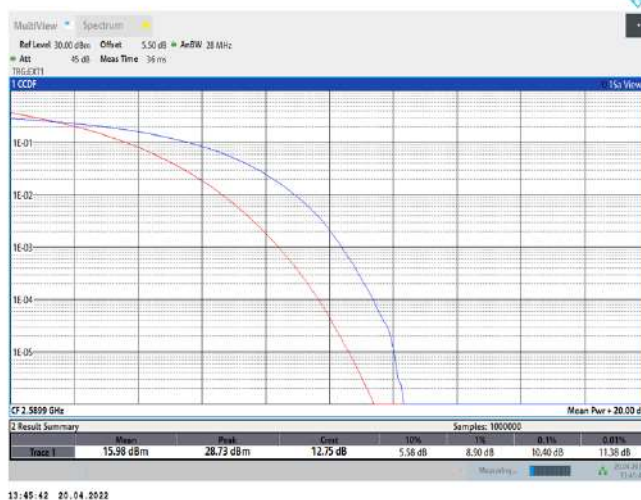
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38-38-20MHz-20MHz-256QAM-256QAM-37850-38048-100RB#0-100RB#0



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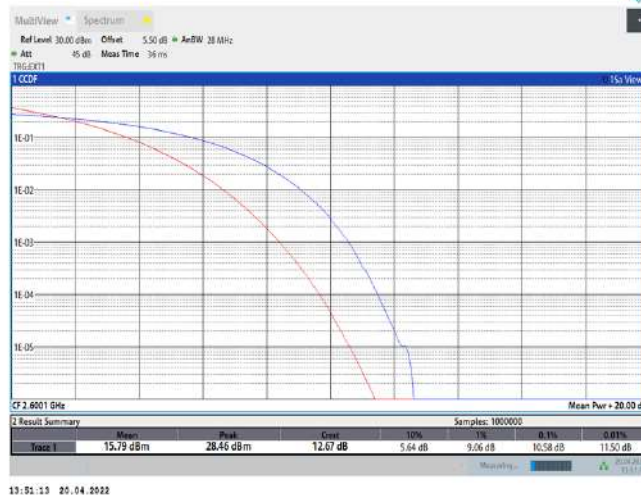
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Modulation Characteristics

Test Result

38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	PASS



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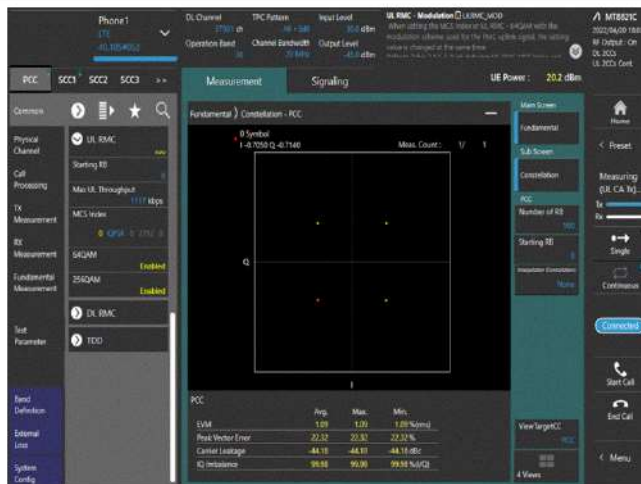
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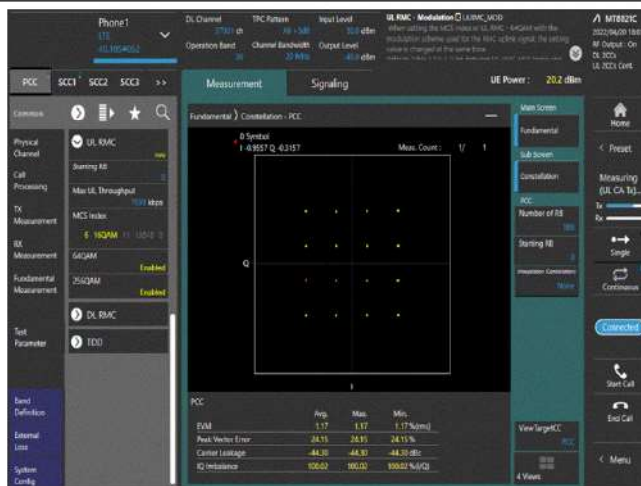
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38-38-20MHz-20MHz-16QAM-16QAM -37901-38099-100RB#0-100RB#0



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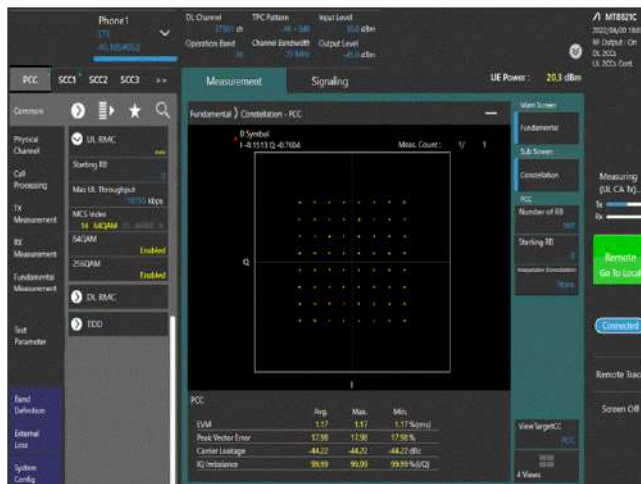
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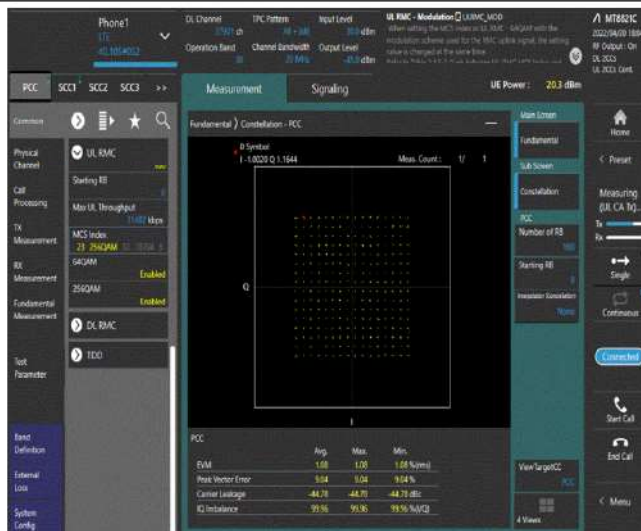
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38-38-20MHz-20MHz-64QAM-64QAM-37901-38099-100RB#0-100RB#0



38-38-20MHz-20MHz-256QAM-256QAM-37901-38099-100RB#0-100RB#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
38-38	15MHz-15MHz	QPSK-QPSK	37825-37975	75RB#0-75RB#0	28.188	31.26	PASS
38-38	15MHz-15MHz	QPSK-QPSK	37925-38075	75RB#0-75RB#0	28.190	30.84	PASS
38-38	15MHz-15MHz	QPSK-QPSK	38025-38175	75RB#0-75RB#0	28.169	30.90	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37825-37975	75RB#0-75RB#0	28.135	31.02	PASS
38-38	15MHz-15MHz	16QAM-16QAM	37925-38075	75RB#0-75RB#0	28.149	32.04	PASS
38-38	15MHz-15MHz	16QAM-16QAM	38025-38175	75RB#0-75RB#0	28.184	30.18	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37825-37975	75RB#0-75RB#0	28.156	31.68	PASS
38-38	15MHz-15MHz	64QAM-64QAM	37925-38075	75RB#0-75RB#0	28.128	30.24	PASS
38-38	15MHz-15MHz	64QAM-64QAM	38025-38175	75RB#0-75RB#0	28.195	31.20	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37825-37975	75RB#0-75RB#0	28.197	30.72	PASS
38-38	15MHz-15MHz	256QAM-256QAM	37925-38075	75RB#0-75RB#0	28.158	31.32	PASS
38-38	15MHz-15MHz	256QAM-256QAM	38025-38175	75RB#0-75RB#0	28.179	30.66	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37850-38048	100RB#0-100RB#0	37.543	42.00	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	37.587	43.76	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37952-38150	100RB#0-100RB#0	37.619	42.88	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37850-38048	100RB#0-100RB#0	37.562	43.04	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	37.615	43.28	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37952-38150	100RB#0-100RB#0	37.628	42.56	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37850-38048	100RB#0-100RB#0	37.594	41.68	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37901-38099	100RB#0-100RB#0	37.576	43.44	PASS
38-38	20MHz-20MHz	64QAM-64QAM	37952-38150	100RB#0-100RB#0	37.568	42.80	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37850-38048	100RB#0-100RB#0	37.562	46.08	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37901-38099	100RB#0-100RB#0	37.502	40.96	PASS
38-38	20MHz-20MHz	256QAM-256QAM	37952-38150	100RB#0-100RB#0	37.534	42.08	PASS



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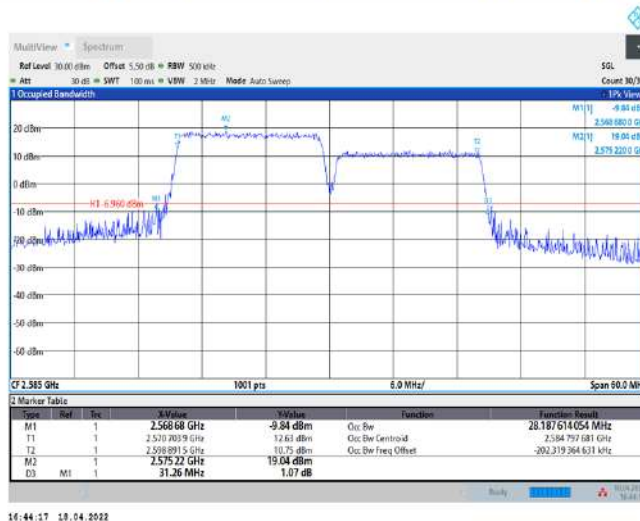
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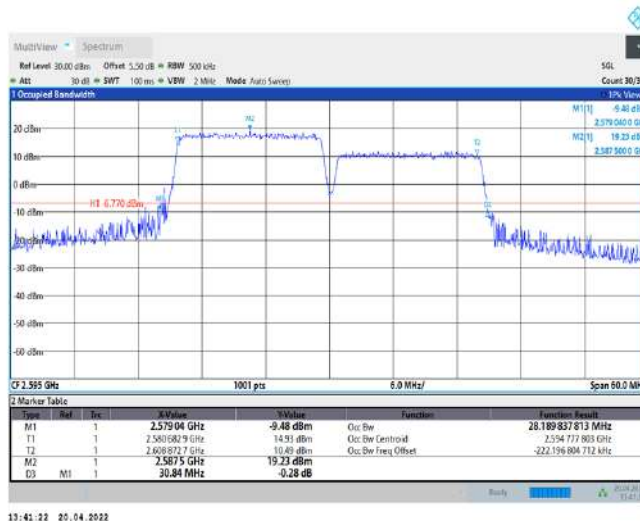
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Test Graphs

38-38-15MHz-15MHz-QPSK-QPSK-37825-37975-75RB#0-75RB#0



38-38-15MHz-15MHz-QPSK-QPSK-37925-38075-75RB#0-75RB#0



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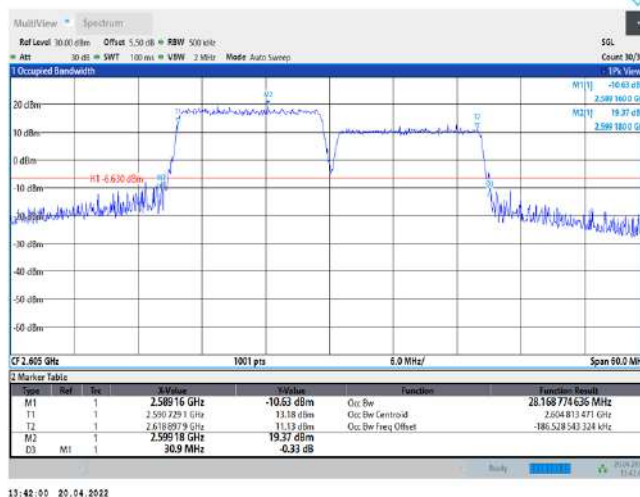
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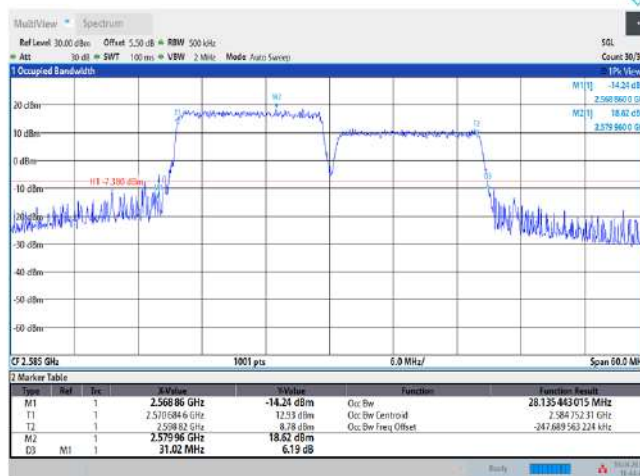
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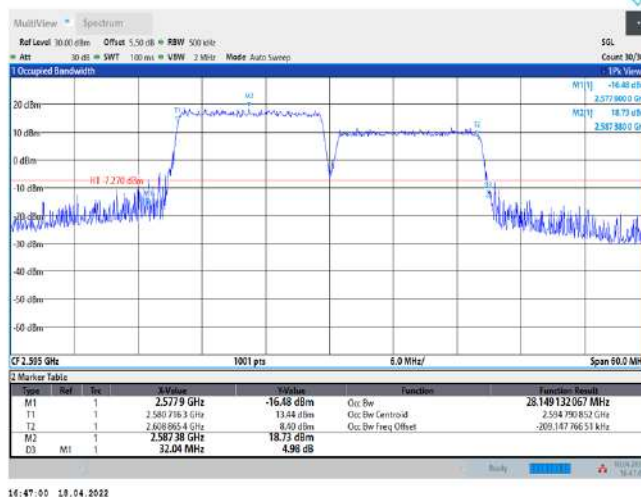
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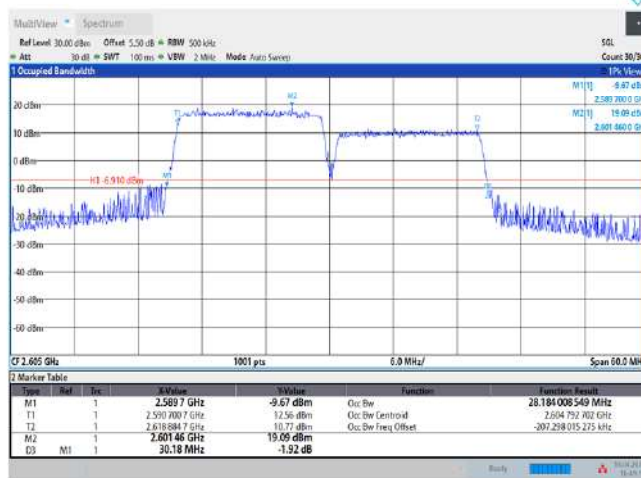
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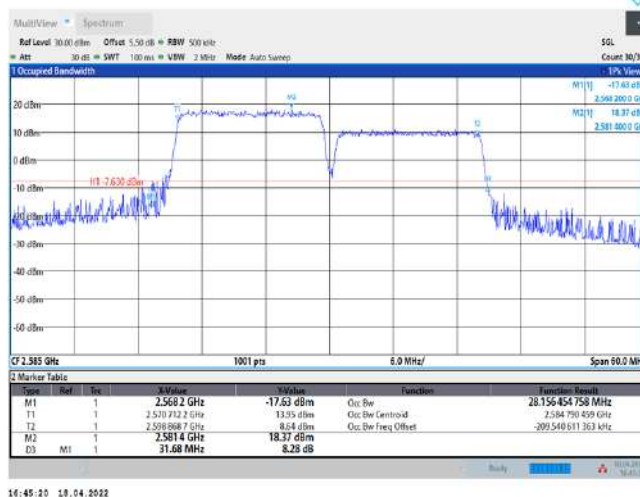
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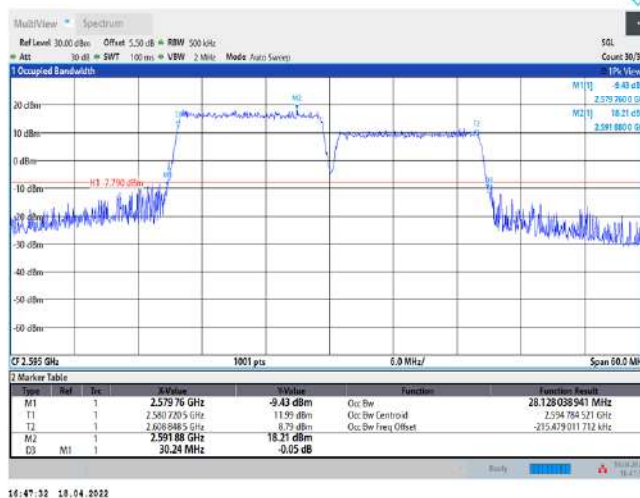
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38-38-15MHz-15MHz-64QAM-64QAM-37925-38075-75RB#0-75RB#0



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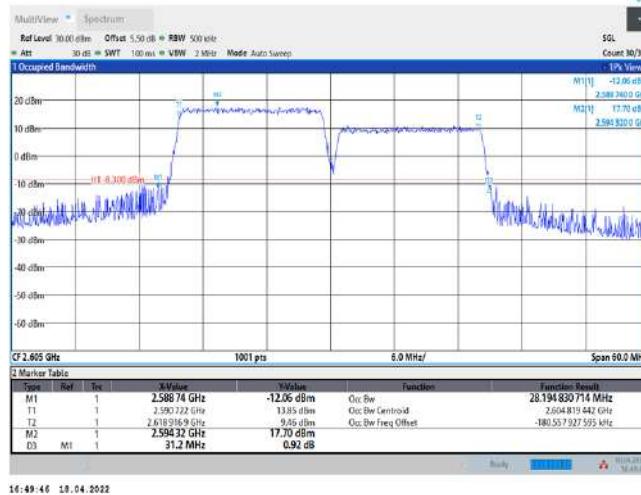
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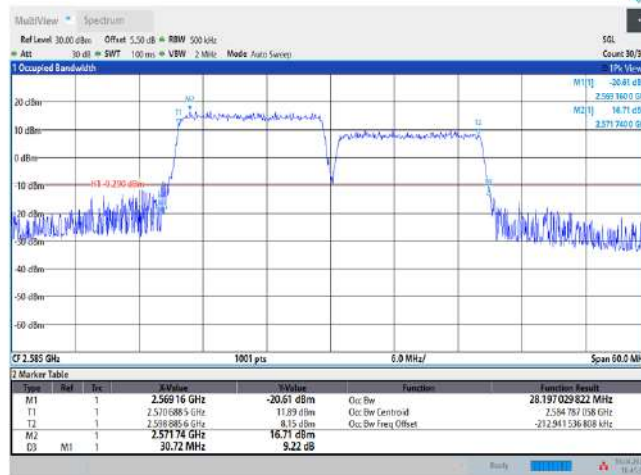
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16:49:46 18.04.2022

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16:45:52 18.04.2022



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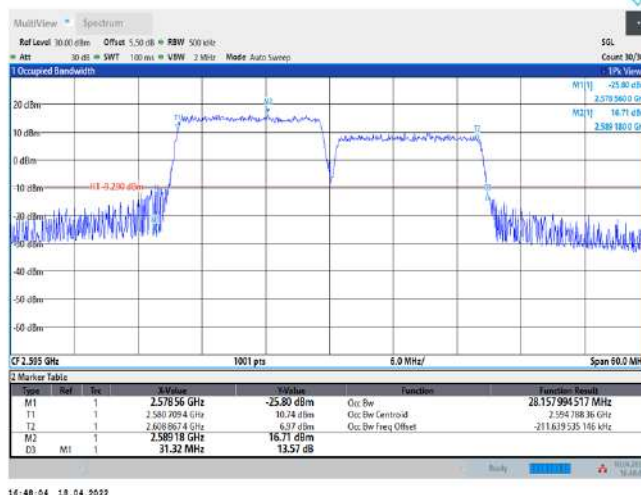
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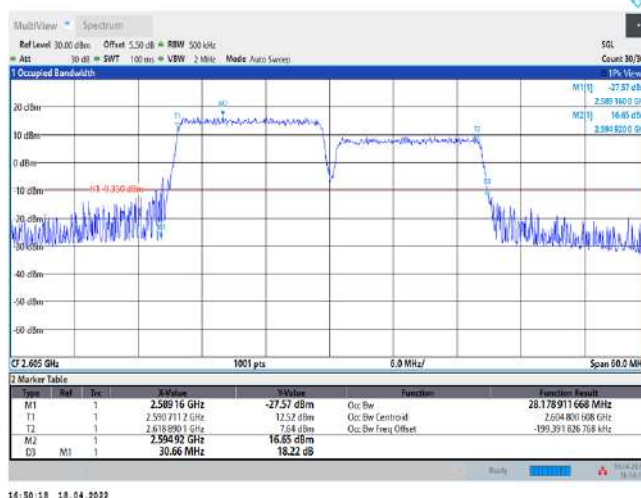
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