



Appendix B.18

LTE CA_7C



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	1RB#0-0RB#0	22.63	23.73	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	20.84	21.94	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	22.89	23.99	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	20.48	21.58	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	22.30	23.4	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	20.64	21.74	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	22.17	23.27	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	19.92	21.02	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	22.35	23.45	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	19.69	20.79	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	22.73	23.83	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	20.25	21.35	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	20.86	21.96	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	19.83	20.93	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	21.25	22.35	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	20.01	21.11	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	19.27	20.37	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	20.28	21.38	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	22.98	24.08	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.29	24.39	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	22.80	23.9	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	22.90	24	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	23.04	24.14	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	22.98	24.08	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	23.12	24.22	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	21.83	22.93	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	23.29	24.39	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	22.27	23.37	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	23.03	24.13	33	PASS



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7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	21.35	22.45	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	22.77	23.87	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	21.85	22.95	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	23.30	24.4	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	22.24	23.34	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	22.91	24.01	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	21.25	22.35	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	22.65	23.75	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	20.84	21.94	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	22.71	23.81	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	20.45	21.55	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	22.68	23.78	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	21.36	22.46	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	22.03	23.13	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	19.77	20.87	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	22.13	23.23	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	19.47	20.57	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	22.02	23.12	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	20.33	21.43	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	1RB#0-0RB#0	20.74	21.84	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	19.88	20.98	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	1RB#0-0RB#0	21.08	22.18	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	20.12	21.22	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	1RB#0-0RB#0	21.05	22.15	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	20.07	21.17	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	1RB#0-0RB#0	22.43	23.53	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	20.77	21.87	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#0-0RB#0	22.64	23.74	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	21.08	22.18	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	1RB#0-0RB#0	22.57	23.67	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	21.22	22.32	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	1RB#0-0RB#0	21.96	23.06	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	19.81	20.91	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#0-0RB#0	21.94	23.04	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	20.13	21.23	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	1RB#0-0RB#0	21.86	22.96	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	19.65	20.75	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	1RB#0-0RB#0	20.85	21.95	33	PASS



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7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	19.79	20.89	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	1RB#0-0RB#0	20.86	21.96	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	20.13	21.23	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	21.01	22.11	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	19.82	20.92	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	1RB#0-0RB#0	22.63	23.73	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	20.85	21.95	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#0-0RB#0	22.60	23.7	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	20.90	22	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	1RB#0-0RB#0	22.81	23.91	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	19.97	21.07	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	1RB#0-0RB#0	21.99	23.09	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	20.64	21.74	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#0-0RB#0	22.21	23.31	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	19.51	20.61	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	1RB#0-0RB#0	22.65	23.75	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	19.30	20.4	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	1RB#0-0RB#0	20.87	21.97	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	19.86	20.96	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	1RB#0-0RB#0	21.18	22.28	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	19.56	20.66	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	1RB#0-0RB#0	21.06	22.16	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	18.72	19.82	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	1RB#0-0RB#0	22.43	23.53	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	20.81	21.91	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	22.63	23.73	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	20.89	21.99	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	22.82	23.92	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	21.22	22.32	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	21.82	22.92	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	19.81	20.91	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	21.75	22.85	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	19.89	20.99	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	22.09	23.19	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	19.62	20.72	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	20.82	21.92	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	19.77	20.87	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	20.75	21.85	33	PASS



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7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	20.30	21.4	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	20.95	22.05	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	19.56	20.66	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	22.65	23.75	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	20.73	21.83	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	22.48	23.58	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	20.76	21.86	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	22.93	24.03	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	20.58	21.68	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	21.92	23.02	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	19.76	20.86	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	22.20	23.3	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	19.89	20.99	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	22.11	23.21	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	19.92	21.02	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	20.78	21.88	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	19.71	20.81	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	21.13	22.23	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	19.84	20.94	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	20.99	22.09	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	20.20	21.3	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	7.86	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	10.46	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	8.06	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	8.23	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	8.03	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	8.09	13	PASS



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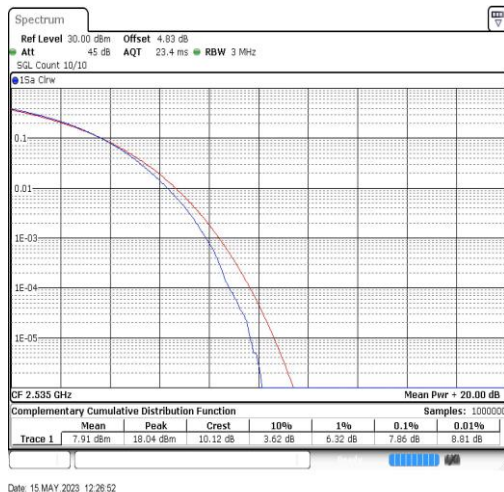
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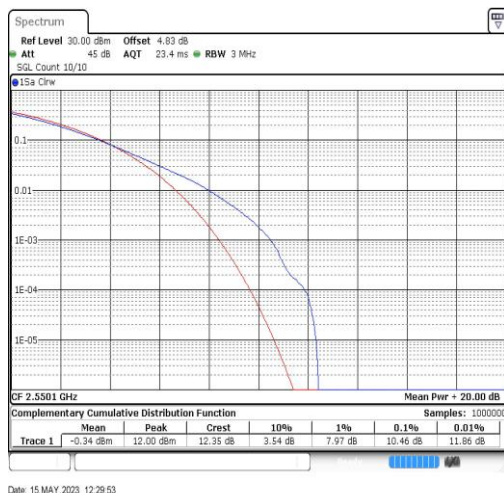
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Test Graphs



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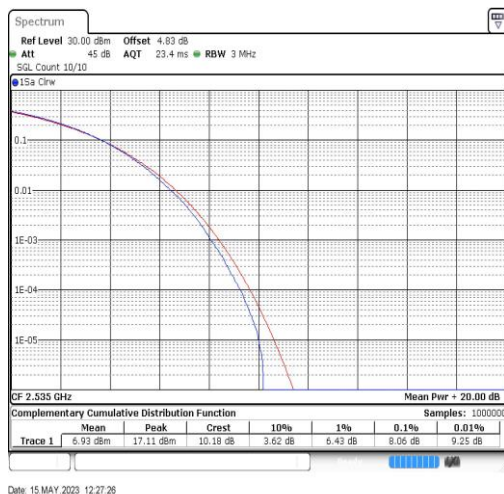
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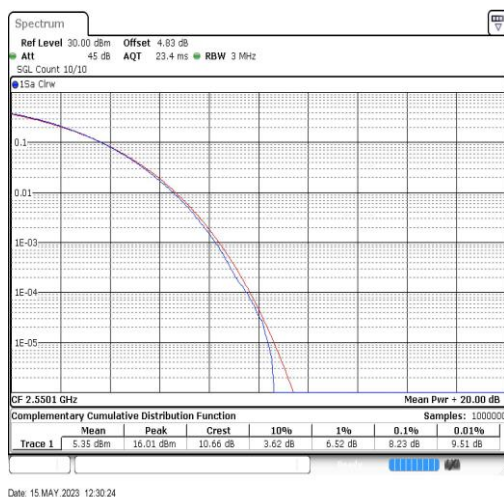
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



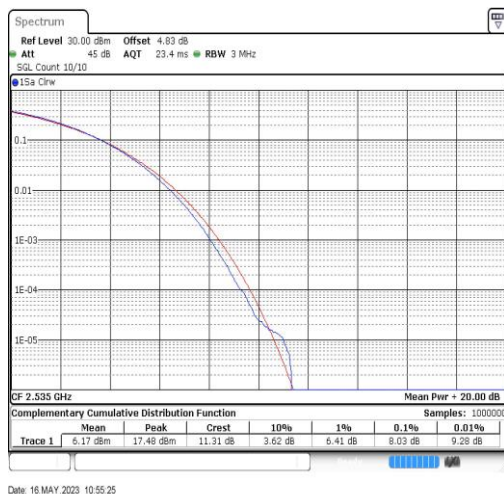
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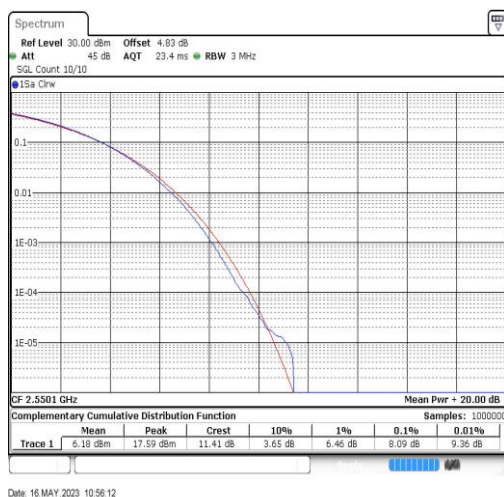
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7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	27.692	29.34	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.572	29.34	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	27.632	29.40	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.752	29.10	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.572	29.22	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	27.692	29.22	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	27.632	29.16	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.572	29.04	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	27.572	29.28	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.277	24.60	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.077	24.70	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	22.927	24.75	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	23.327	24.60	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.077	24.80	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	23.077	24.70	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.172	29.94	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	28.232	30.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.172	30.00	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	28.352	30.12	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.112	29.82	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	28.412	29.70	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.378	34.30	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.517	34.51	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.448	34.23	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	32.448	34.37	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.308	34.23	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	32.378	34.30	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.692	29.40	PASS



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7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	27.752	29.46	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.632	29.34	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.692	29.46	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.632	29.28	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	27.572	29.34	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.448	34.44	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	32.517	34.58	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.448	34.37	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	32.517	34.37	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.378	34.37	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	32.448	34.44	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.403	40.24	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	37.562	40.32	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.403	40.00	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	37.562	40.24	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.323	39.92	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	37.403	40.16	PASS



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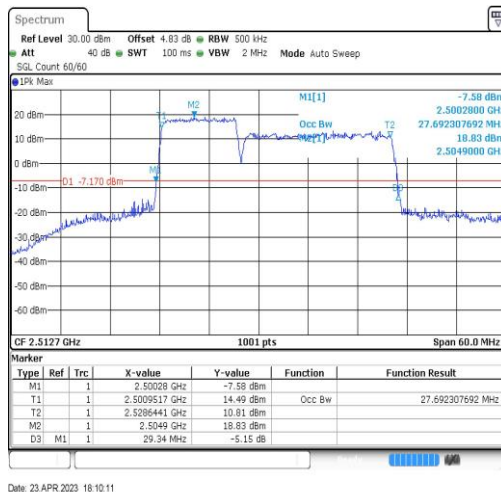
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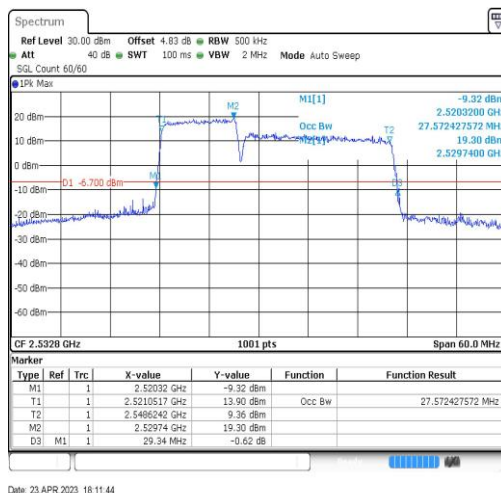
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Test Graphs



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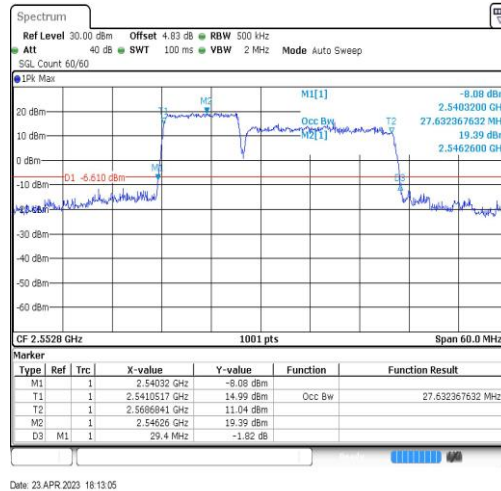
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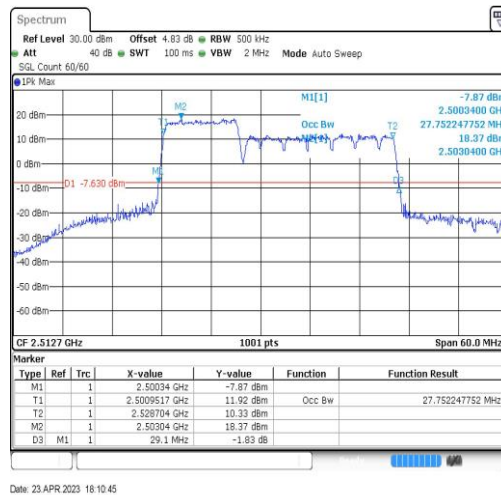
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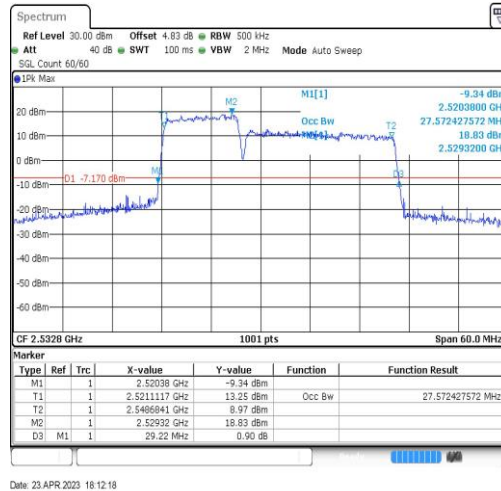
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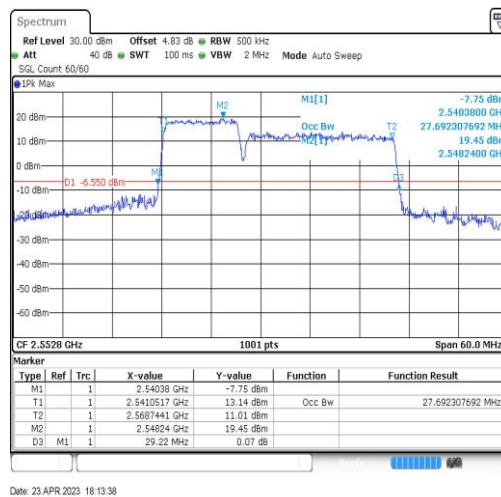
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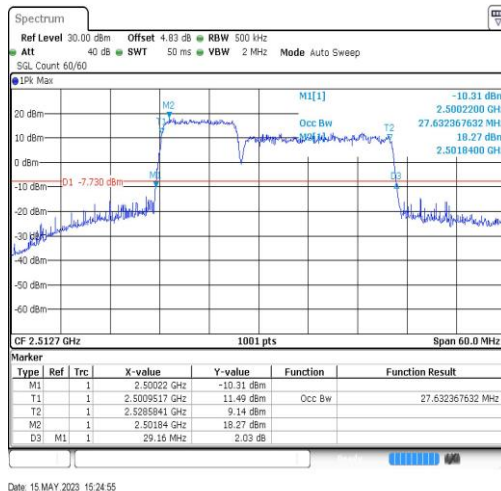
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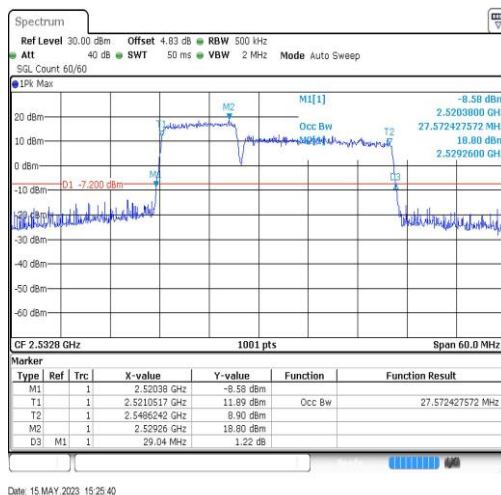
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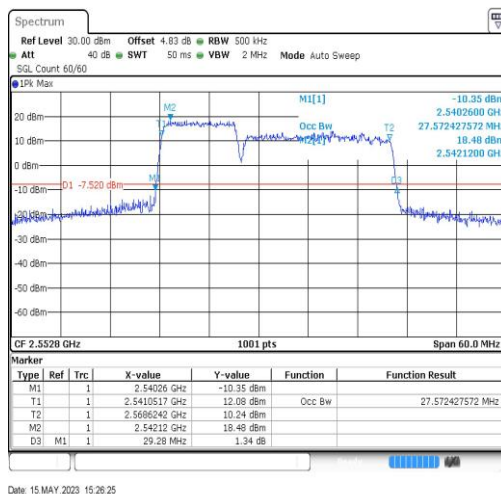
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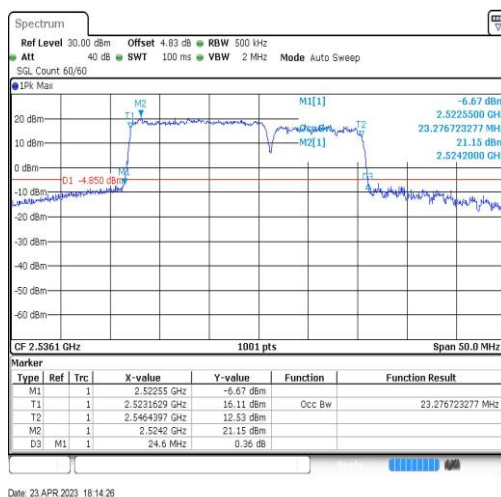
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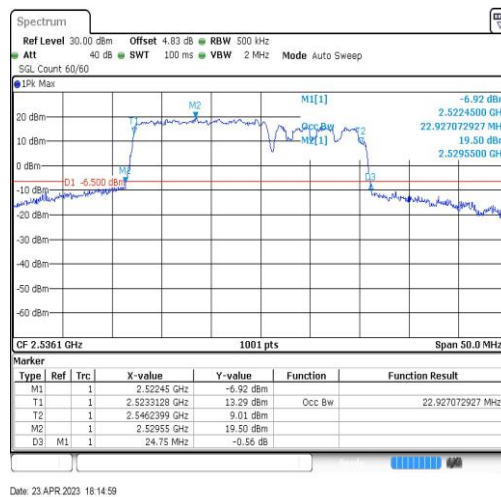
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0-23.077



7-7-15MHz-10MHz-16QAM-16QAM-21051-21171-75RB#0-50RB#0-22.927



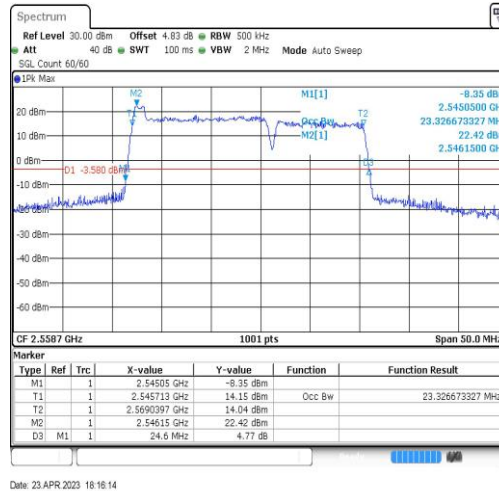
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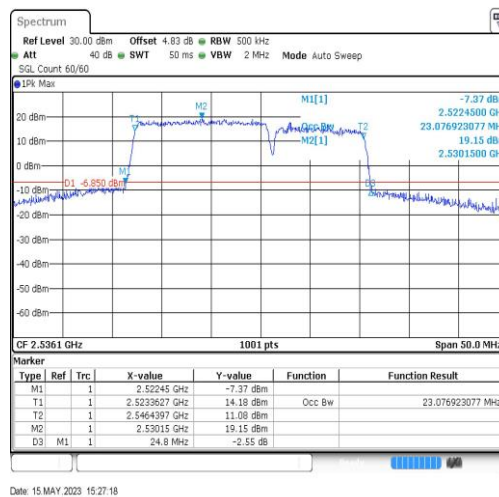
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7-7-15MHz-10MHz-64QAM-64QAM-21051-21171-75RB#0-50RB#0-23.077



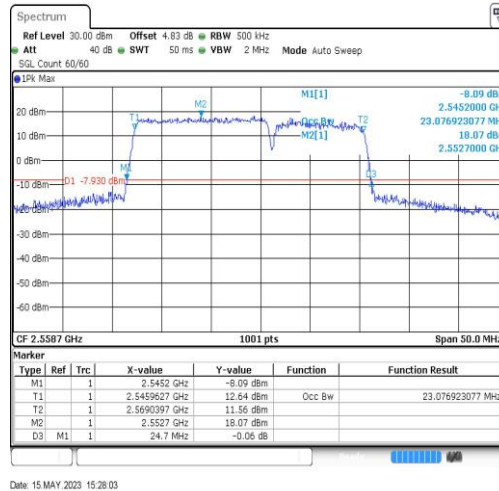
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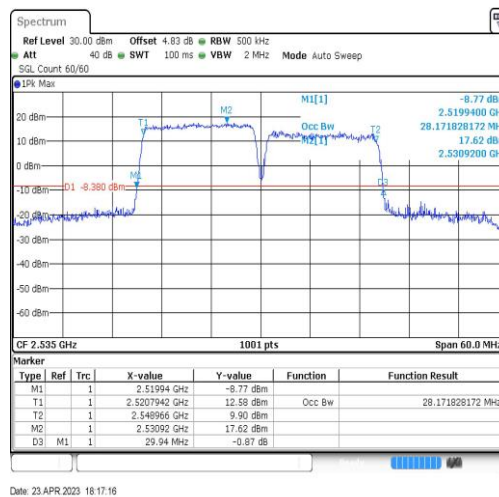
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7-7-15MHz-15MHz-QPSK-QPSK-21025-21175-75RB#0-75RB#0-28.172



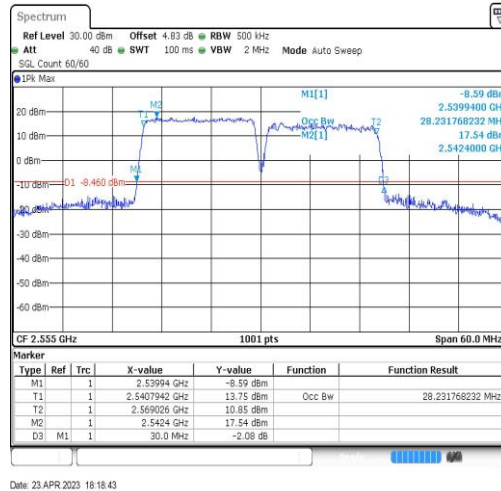
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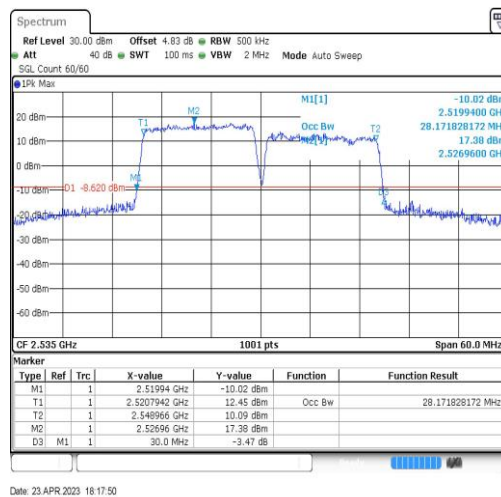
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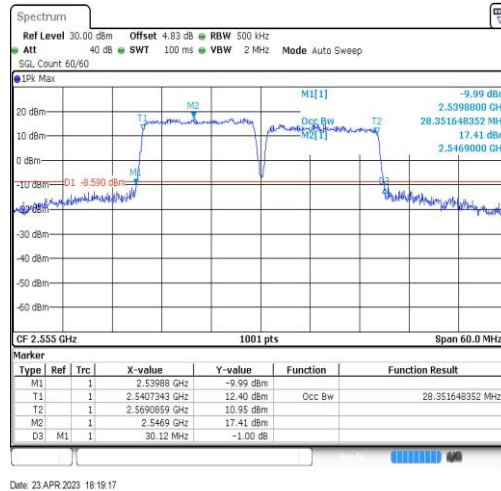
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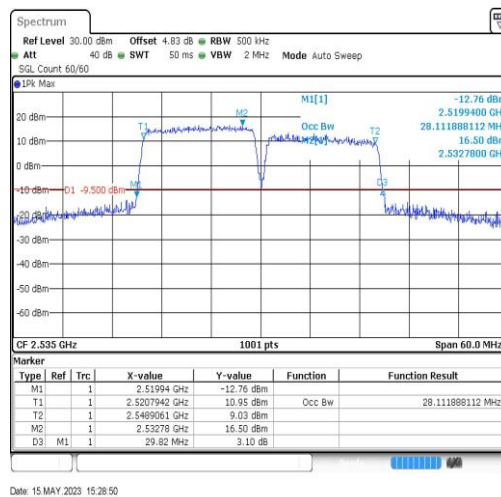
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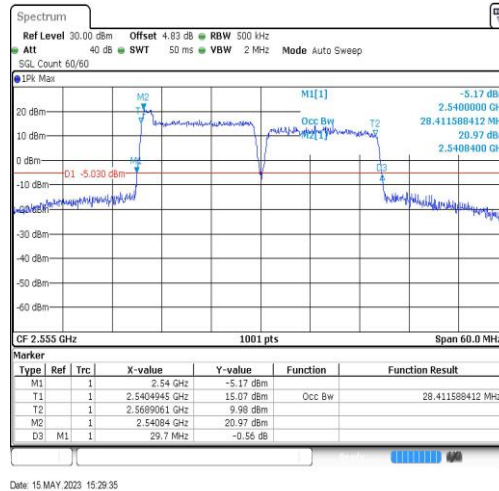


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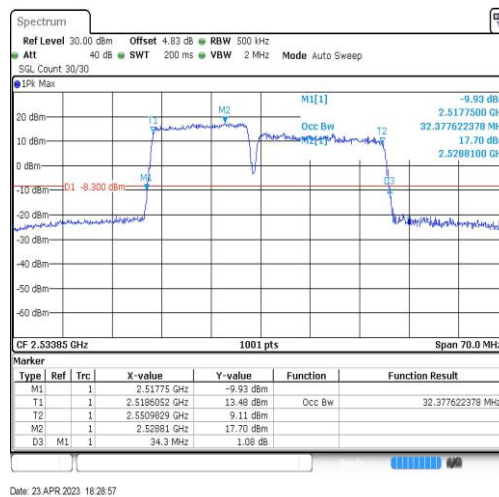


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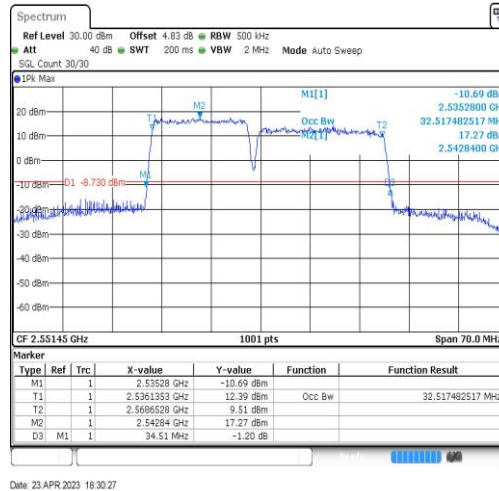
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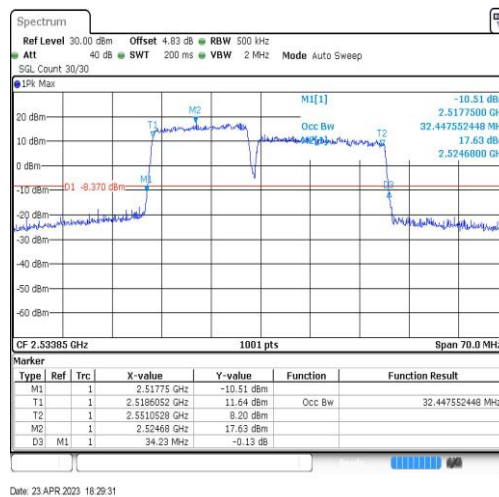
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7-7-15MHz-20MHz-16QAM-16QAM-21003-21174-75RB#0-100RB#0-32.448



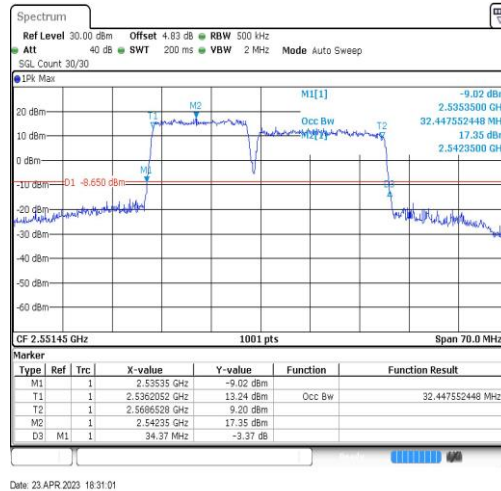
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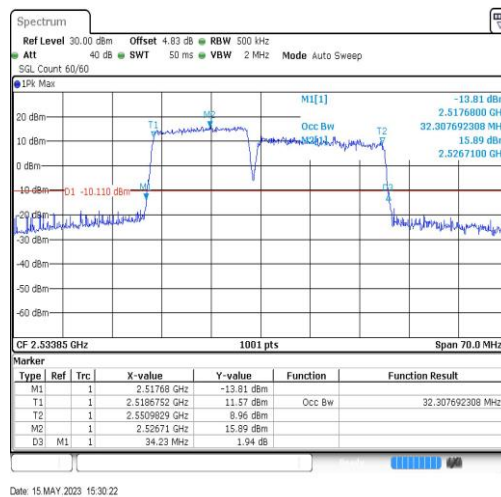
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7-7-15MHz-20MHz-64QAM-64QAM-21003-21174-75RB#0-100RB#0-32.308



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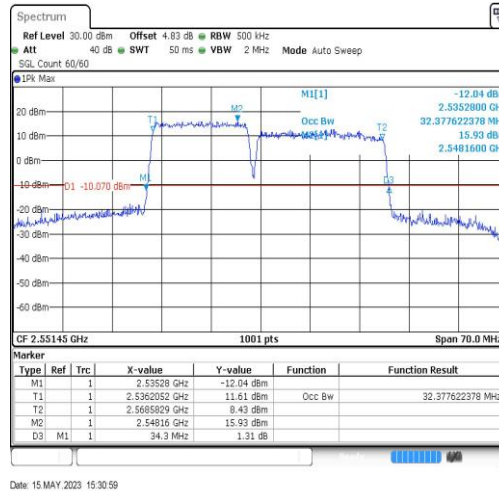
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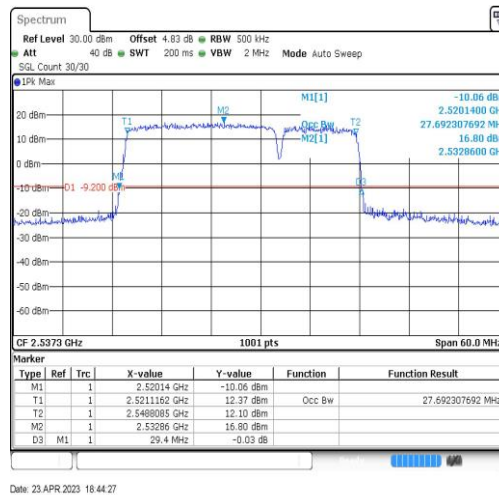
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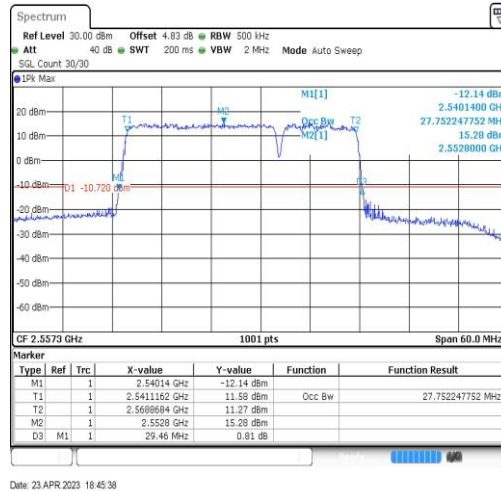
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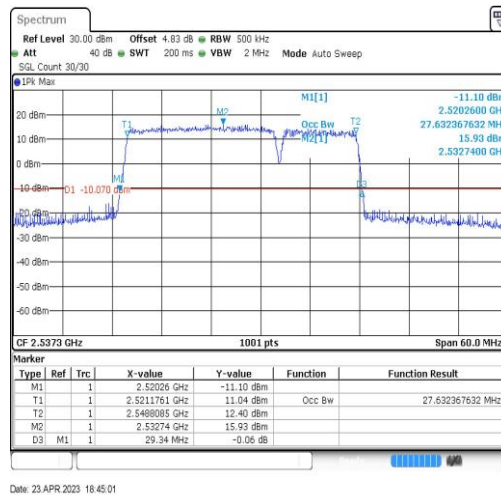
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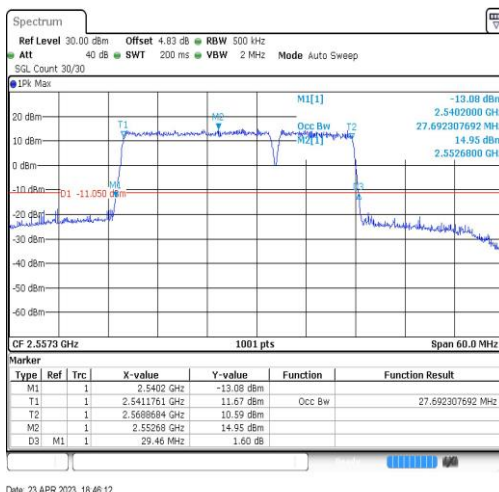
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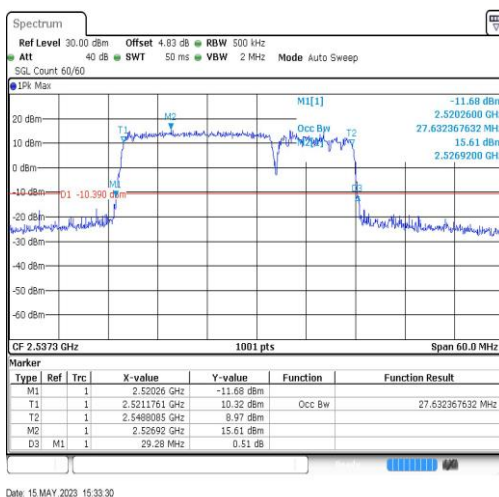
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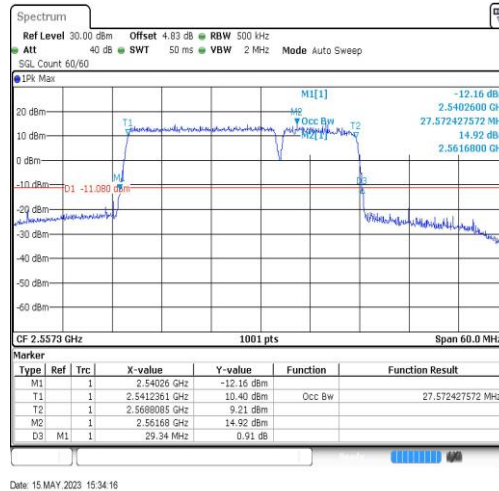
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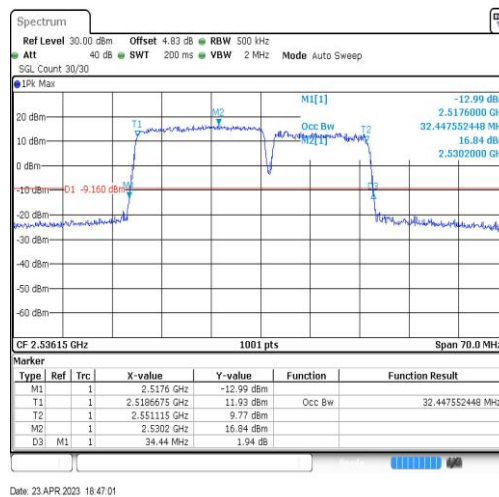
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7-7-20MHz-10MHz-64QAM-64QAM-21251-21395-100RB#0-50RB#0-27.572



7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0-32.448



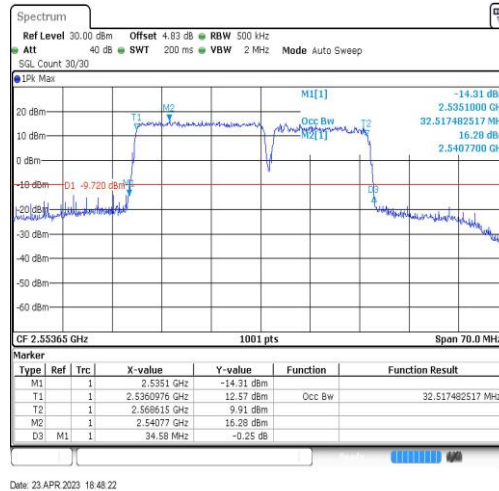
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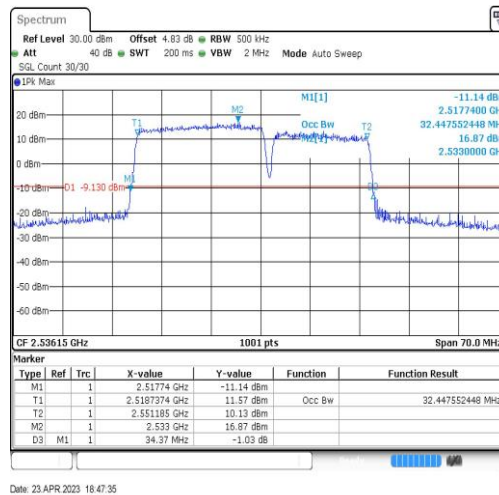
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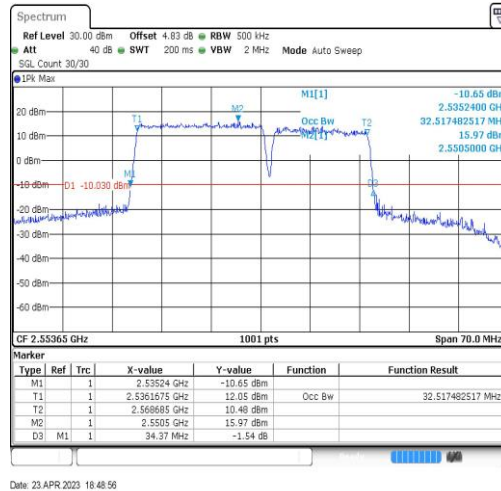


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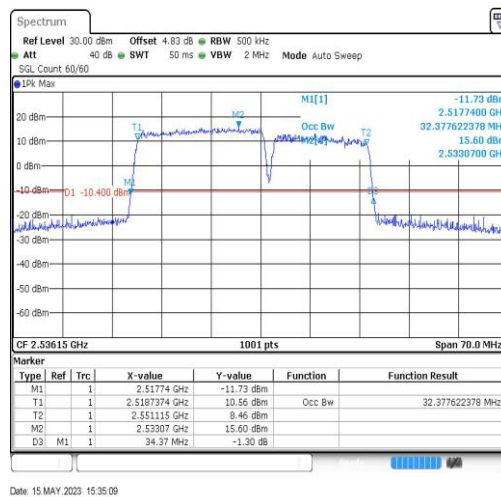


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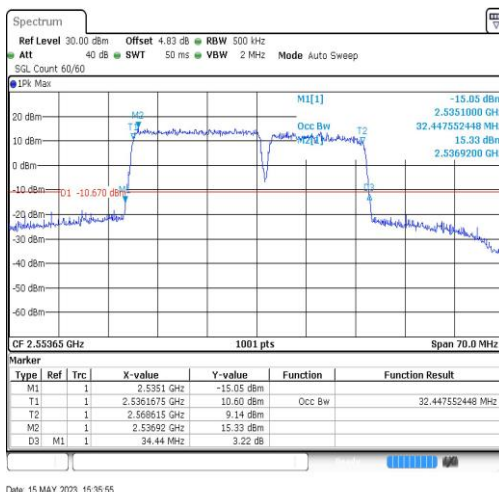
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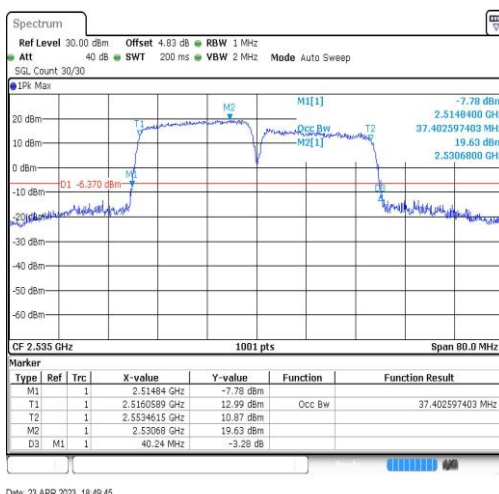
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Date: 15 MAY 2023 15:35:55

7-7-20MHz-15MHz-64QAM-64QAM-21201-21372-100RB#0-75RB#0-32.448



Date: 23 APR 2023 18:49:45

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0-37.403

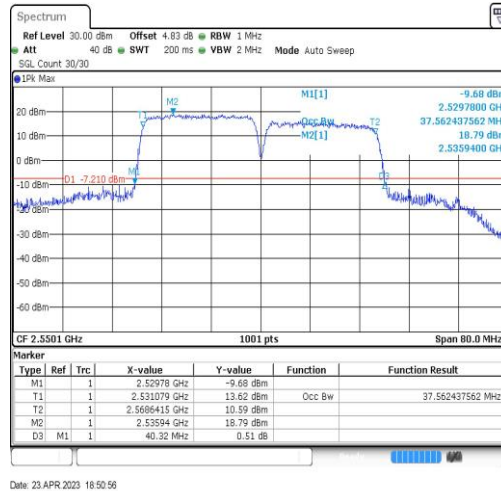


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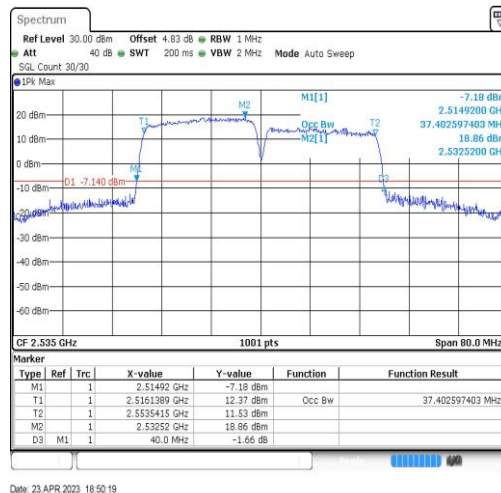
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Date: 23 APR 2023 18:50:56

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0-37.562



Date: 23 APR 2023 18:50:19

7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0-37.403



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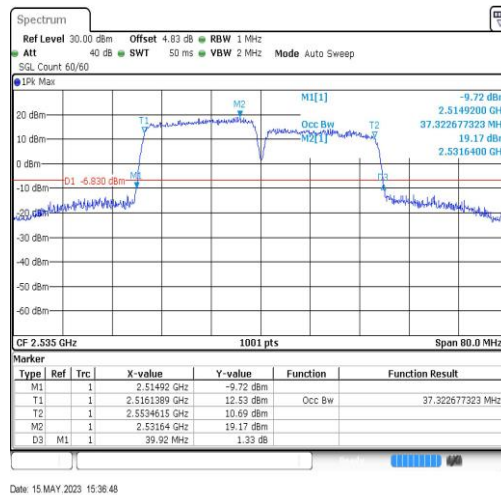
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7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0-37.562



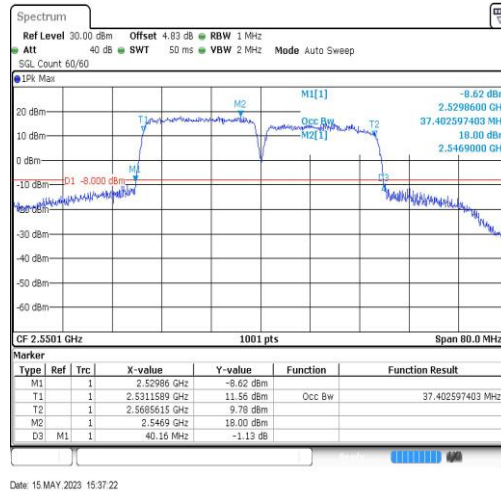
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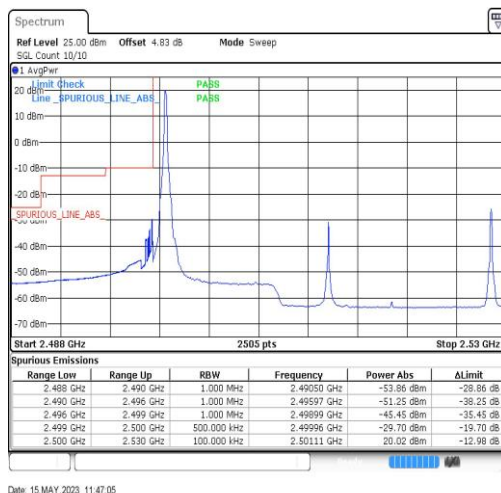
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Band Edge

Test Graphs



7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-1RB#0-0RB#0



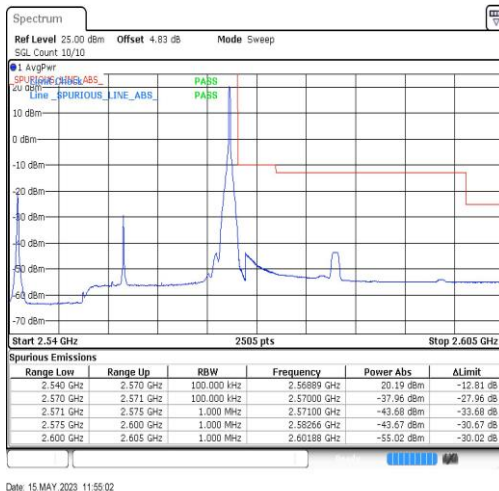
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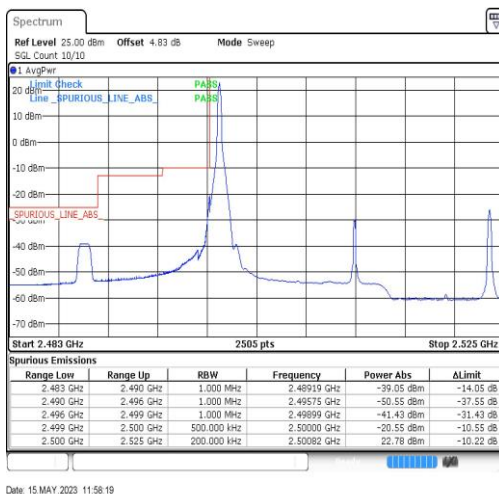
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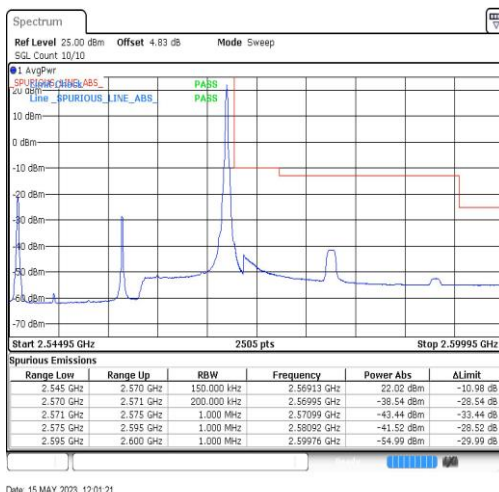
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



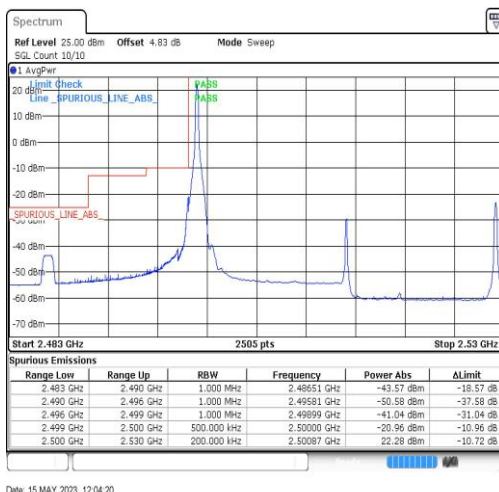
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



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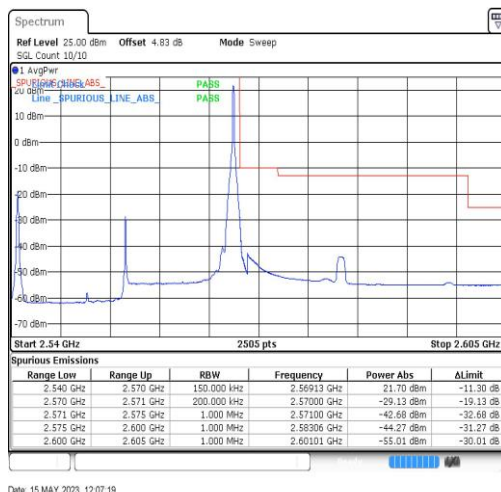


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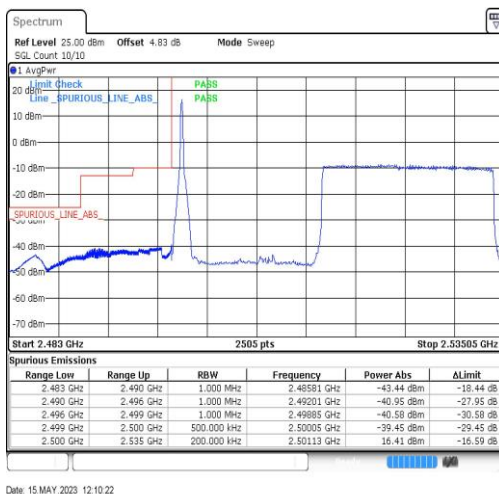
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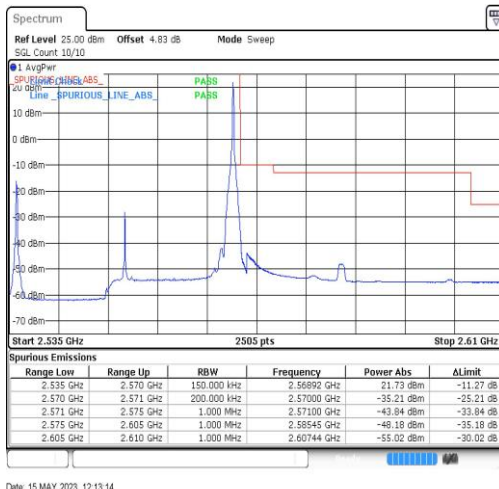
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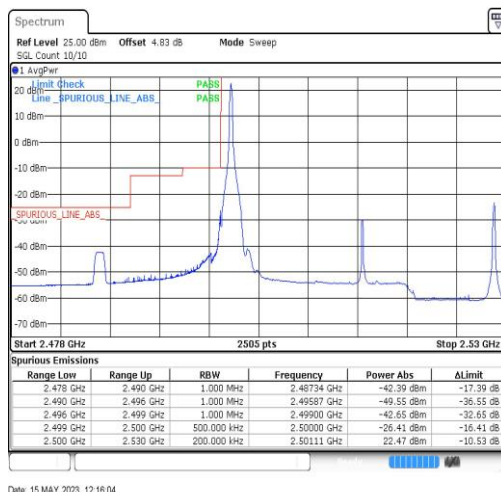
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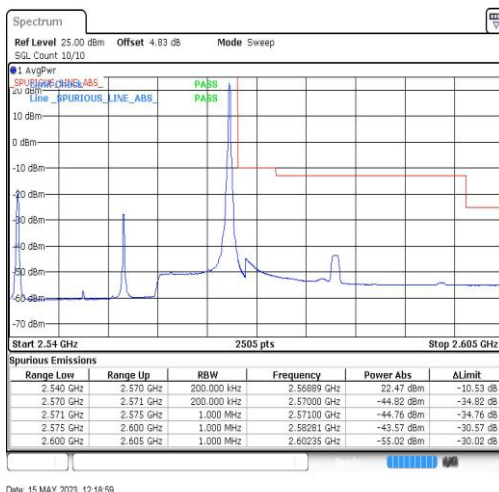
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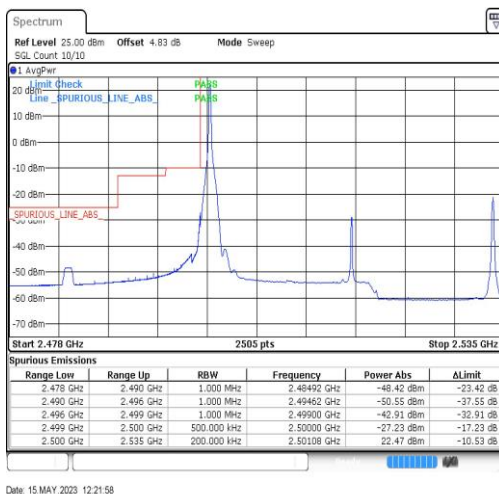
7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0



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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-1RB#0-0RB#0



7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0

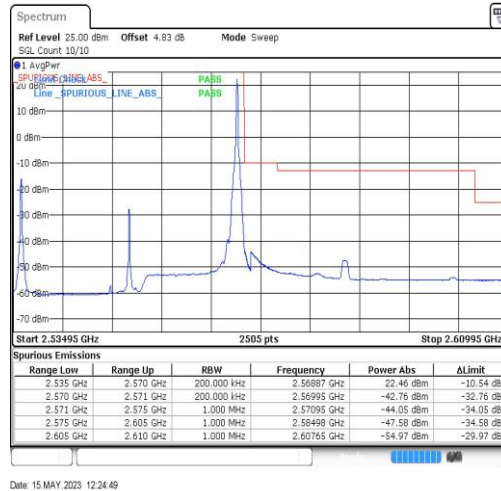


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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



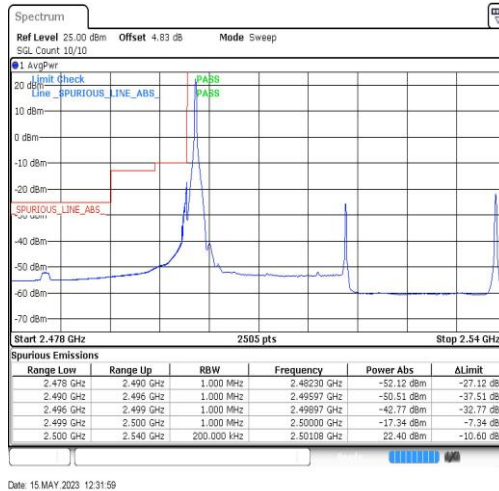
7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0



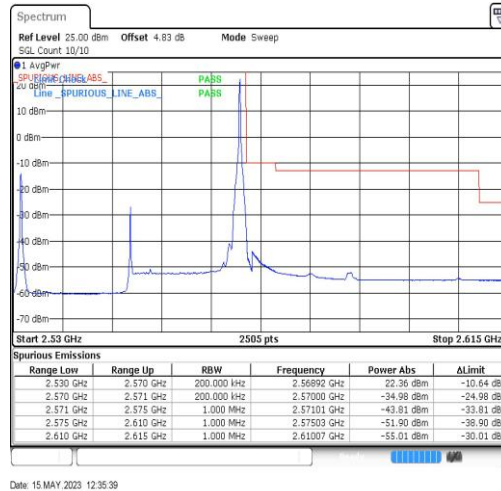
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



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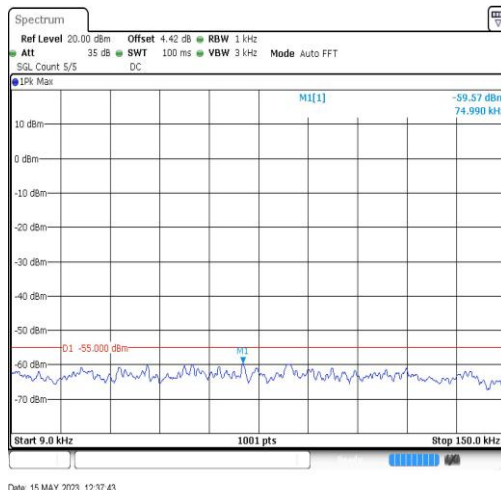
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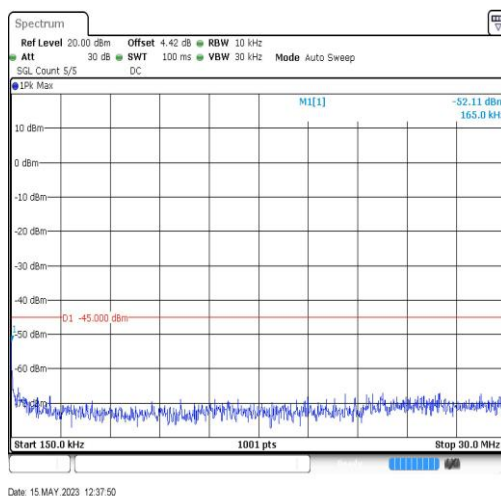
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Conducted Spurious Emission

Test Graphs



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



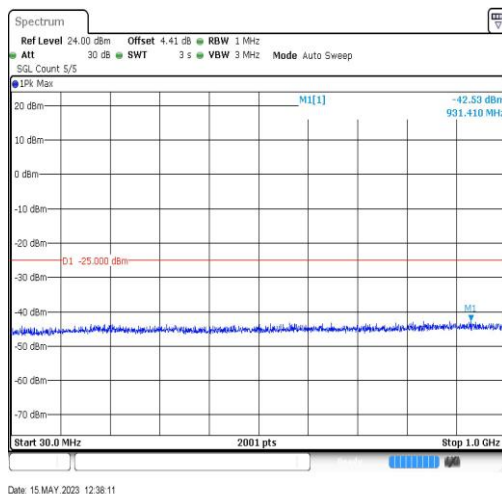
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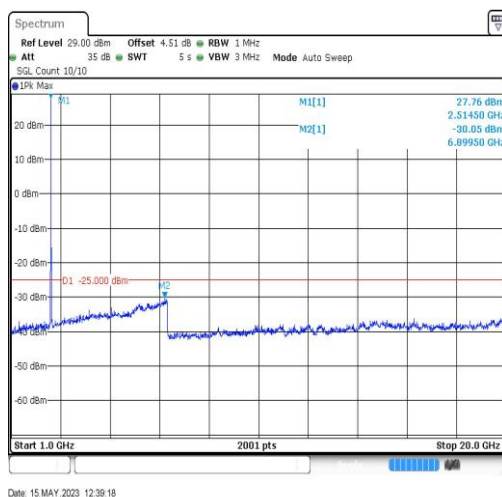
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



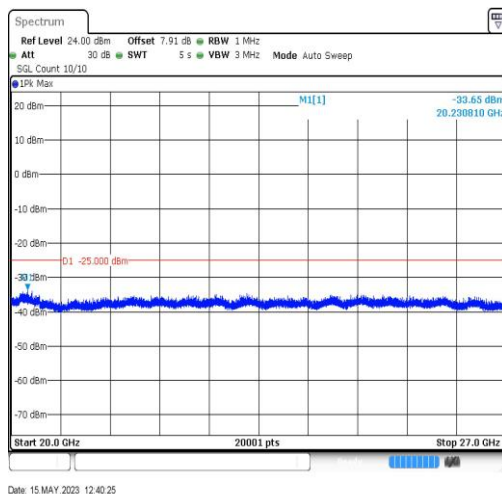
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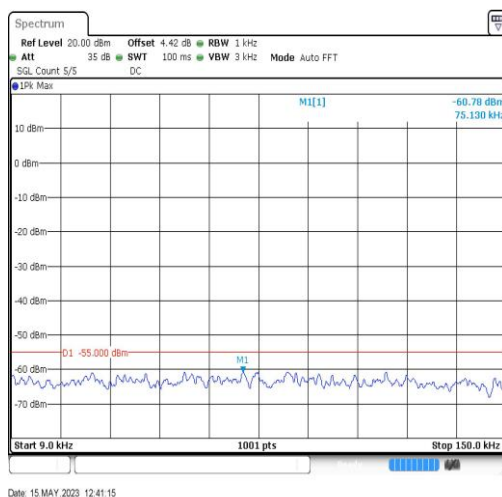
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



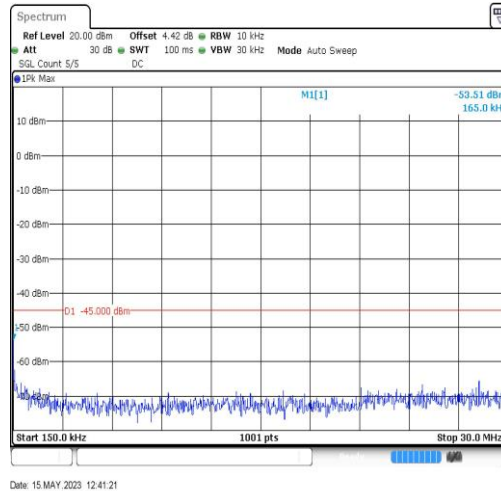
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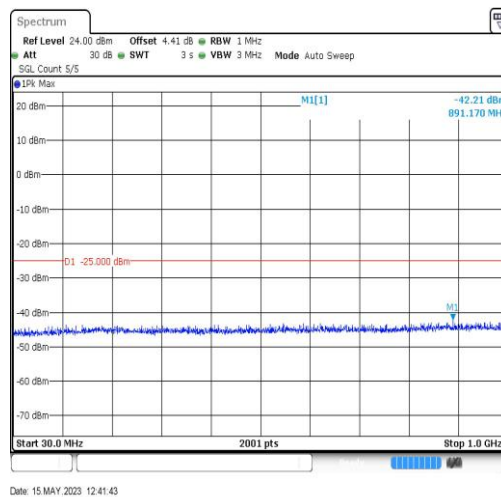
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



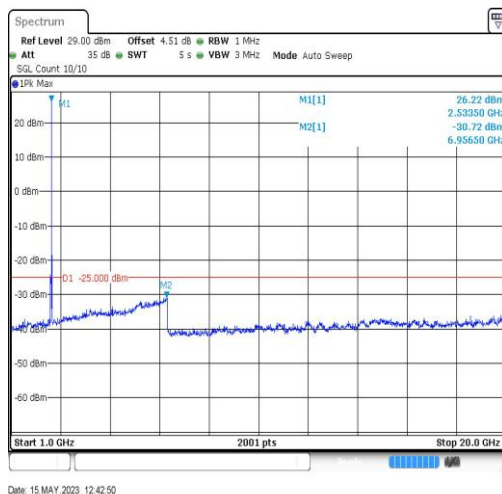
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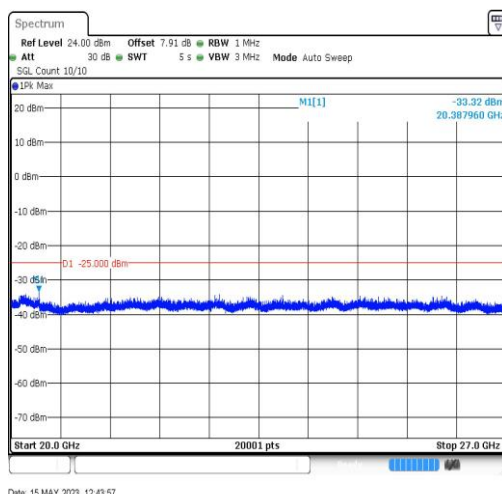
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Field Strength of Spurious Radiation

Test Band = LTE CA_7C ANT 13_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3940.547	48.67	-44.19	29.86	-60.92	-25.00	35.92	146	180	Horizontal
2	5677.6339	47.92	-41.21	32.50	-56.05	-25.00	31.05	206	358	Horizontal
3	7731.9866	45.73	-37.67	36.54	-50.66	-25.00	25.66	199	337	Horizontal
4	10963.8982	45.50	-37.14	40.14	-46.76	-25.00	21.76	246	200	Horizontal
5	15209.1105	46.07	-35.37	39.72	-44.84	-25.00	19.84	216	150	Horizontal
6	17989.4995	46.15	-43.12	48.01	-44.22	-25.00	19.22	332	45	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3930.0465	48.55	-44.19	29.82	-61.08	-25.00	36.08	309	152	Vertical
2	5207.3604	48.18	-42.53	31.86	-57.75	-25.00	32.75	136	358	Vertical
3	7691.4846	45.66	-37.67	36.77	-50.50	-25.00	25.50	255	295	Vertical
4	11043.4022	45.81	-37.24	40.14	-46.55	-25.00	21.55	308	239	Vertical
5	15190.3595	46.42	-35.67	39.76	-44.75	-25.00	19.75	265	105	Vertical
6	17992.4996	46.33	-43.10	48.06	-43.97	-25.00	18.97	215	267	Vertical



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Test Band = LTE CA_7C ANT 13_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3972.7986	48.34	-44.18	29.85	-61.25	-25.00	36.25	157	92	Horizontal
2	5678.3839	47.84	-41.20	32.50	-56.12	-25.00	31.12	276	13	Horizontal
3	7847.4924	45.75	-37.70	36.79	-50.42	-25.00	25.42	288	326	Horizontal
4	11019.401	45.62	-37.10	40.12	-46.62	-25.00	21.62	264	76	Horizontal
5	15221.1111	46.24	-35.48	39.74	-44.76	-25.00	19.76	211	5	Horizontal
6	17997.7499	45.93	-43.06	48.16	-44.23	-25.00	19.23	236	36	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3993.7997	48.47	-44.17	29.81	-61.15	-25.00	36.15	149	76	Vertical
2	5144.3572	48.36	-42.53	31.77	-57.66	-25.00	32.66	351	247	Vertical
3	7497.9749	46.27	-38.29	36.90	-50.38	-25.00	25.38	233	13	Vertical
4	10976.6488	45.32	-37.09	40.12	-46.91	-25.00	21.91	351	275	Vertical
5	15192.6096	46.21	-35.58	39.74	-44.89	-25.00	19.89	164	251	Vertical
6	17983.4992	46.32	-43.17	47.90	-44.21	-25.00	19.21	134	207	Vertical



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Test Band = LTE CA_7C ANT 13_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3963.0482	48.42	-44.18	29.87	-61.15	-25.00	36.15	137	273	Horizontal
2	4823.3412	48.27	-42.93	30.71	-59.21	-25.00	34.21	205	135	Horizontal
3	7412.4706	46.32	-38.28	36.72	-50.50	-25.00	25.50	292	287	Horizontal
4	11035.1518	45.57	-37.19	40.14	-46.74	-25.00	21.74	226	217	Horizontal
5	15195.6098	46.23	-35.46	39.73	-44.76	-25.00	19.76	261	58	Horizontal
6	17999.25	45.90	-43.05	48.19	-44.22	-25.00	19.22	231	135	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3987.7994	48.86	-44.17	29.82	-60.75	-25.00	35.75	254	119	Vertical
2	5689.6345	48.00	-41.17	32.50	-55.93	-25.00	30.93	222	223	Vertical
3	7685.4843	45.73	-37.74	36.74	-50.53	-25.00	25.53	400	354	Vertical
4	9899.595	44.69	-34.96	38.60	-46.93	-25.00	21.93	236	160	Vertical
5	11086.9043	45.73	-37.51	40.19	-46.85	-25.00	21.85	266	59	Vertical
6	15201.6101	46.29	-35.30	39.70	-44.57	-25.00	19.57	217	112	Vertical



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Test Band = LTE CA_7C ANT 31_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3959.298	48.60	-44.18	29.88	-60.96	-25.00	35.96	177	180	Horizontal
2	6043.6522	47.31	-40.94	33.44	-55.45	-25.00	30.45	354	200	Horizontal
3	7412.4706	46.94	-38.28	36.72	-49.88	-25.00	24.88	178	13	Horizontal
4	11026.9013	45.45	-37.14	40.13	-46.82	-25.00	21.82	236	168	Horizontal
5	16574.1787	46.55	-35.41	39.45	-44.67	-25.00	19.67	351	164	Horizontal
6	17996.2498	46.03	-43.07	48.13	-44.17	-25.00	19.17	322	176	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3918.0459	48.72	-44.19	29.77	-60.96	-25.00	35.96	392	22	Vertical
2	5682.8841	48.05	-41.19	32.50	-55.90	-25.00	30.90	213	244	Vertical
3	7865.4933	45.90	-37.62	36.71	-50.27	-25.00	25.27	246	149	Vertical
4	10977.3989	45.42	-37.08	40.12	-46.80	-25.00	21.80	101	129	Vertical
5	15196.3598	46.13	-35.43	39.72	-44.84	-25.00	19.84	282	295	Vertical
6	17984.9992	46.16	-43.16	47.93	-44.33	-25.00	19.33	337	101	Vertical



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Test Band = LTE CA_7C ANT 31_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3991.5496	48.55	-44.17	29.82	-61.06	-25.00	36.06	222	319	Horizontal
2	6144.9072	47.39	-40.66	33.31	-55.22	-25.00	30.22	123	291	Horizontal
3	7786.7393	46.11	-37.85	36.55	-50.45	-25.00	25.45	182	303	Horizontal
4	10959.398	45.80	-37.16	40.14	-46.48	-25.00	21.48	338	212	Horizontal
5	15212.1106	46.26	-35.40	39.72	-44.68	-25.00	19.68	240	327	Horizontal
6	17996.9998	46.32	-43.06	48.15	-43.85	-25.00	18.85	181	152	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3930.0465	48.55	-44.19	29.82	-61.08	-25.00	36.08	202	50	Vertical
2	5671.6336	48.12	-41.23	32.50	-55.87	-25.00	30.87	183	42	Vertical
3	7420.721	46.25	-38.28	36.74	-50.55	-25.00	25.55	291	93	Vertical
4	11086.1543	45.69	-37.51	40.19	-46.89	-25.00	21.89	107	192	Vertical
5	15197.8599	46.26	-35.37	39.71	-44.66	-25.00	19.66	116	50	Vertical
6	17998.4999	46.09	-43.05	48.17	-44.05	-25.00	19.05	264	331	Vertical



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Test Band = LTE CA_7C ANT 31_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3926.2963	48.33	-44.19	29.81	-61.31	-25.00	36.31	267	350	Horizontal
2	5683.6342	48.02	-41.19	32.50	-55.93	-25.00	30.93	132	235	Horizontal
3	7420.721	46.25	-38.28	36.74	-50.55	-25.00	25.55	170	254	Horizontal
4	10963.1482	45.50	-37.15	40.14	-46.77	-25.00	21.77	106	25	Horizontal
5	15197.1099	46.32	-35.40	39.72	-44.62	-25.00	19.62	217	314	Horizontal
6	17993.2497	46.16	-43.09	48.08	-44.11	-25.00	19.11	331	223	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3930.0465	48.93	-44.19	29.82	-60.70	-25.00	35.70	388	48	Vertical
2	5723.3862	48.03	-41.21	32.50	-55.94	-25.00	30.94	321	358	Vertical
3	7920.246	45.76	-37.44	36.46	-50.48	-25.00	25.48	356	199	Vertical
4	9877.8439	44.59	-35.13	38.42	-47.38	-25.00	22.38	118	219	Vertical
5	11005.9003	45.54	-37.02	40.11	-46.63	-25.00	21.63	327	48	Vertical
6	15194.1097	46.57	-35.52	39.74	-44.47	-25.00	19.47	202	115	Vertical



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Test on the worst case:

Test Band = LTE_CA_7C ANT 31_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998.5	38.04	-16.79	29.79	-44.22	-25.00	19.22	Horizontal
2	3931	53.31	-49.07	30.79	-60.23	-25.00	35.23	Horizontal
3	5700.5	52.18	-44.73	33.50	-54.31	-25.00	29.31	Horizontal
4	8973	49.41	-41.88	38.64	-49.09	-25.00	24.09	Horizontal
5	14246	48.01	-39.75	40.75	-46.25	-25.00	21.25	Horizontal
6	17995.5	49.05	-44.08	42.77	-47.52	-25.00	22.52	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998	38.00	-16.79	29.78	-44.27	-25.00	19.27	Vertical
2	3633	54.35	-49.31	30.33	-59.89	-25.00	34.89	Vertical
3	5560	51.42	-45.49	33.24	-56.09	-25.00	31.09	Vertical
4	9448.5	49.78	-41.34	38.99	-47.83	-25.00	22.83	Vertical
5	12261	46.91	-37.94	39.62	-46.67	-25.00	21.67	Vertical
6	14034	48.02	-40.00	40.57	-46.67	-25.00	21.67	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 (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	-1.00	-0.000396	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	-3.80	-0.001505	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VH	NT	-1.60	-0.000634	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-50	-0.90	-0.000356	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-30	-6.00	-0.002376	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	-8.30	-0.003287	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	-7.20	-0.002851	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	-7.70	-0.003049	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	-6.50	-0.002574	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	4.30	0.001703	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	-7.80	-0.003089	PASS

---End of Attachment---



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