Appendix B.15

LTE Band 7C

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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant1:

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	22.79	25.19	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	20805-20949	50RB#0-100RB#0	21.66	24.06	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	1RB#0-0RB#0	22.79	25.19	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	21.63	24.03	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	1RB#0-0RB#0	22.76	25.16	33	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	21.6	24	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	1RB#0-0RB#0	22.05	24.45	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	20.7	23.1	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	1RB#0-0RB#0	22.11	24.51	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	20.68	23.08	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	1RB#0-0RB#0	21.86	24.26	33	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	20.67	23.07	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	1RB#0-0RB#0	20.94	23.34	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	19.78	22.18	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	1RB#0-0RB#0	21.19	23.59	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	20.68	23.08	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	1RB#0-0RB#0	21.21	23.61	33	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	20.63	23.03	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	1RB#0-0RB#0	17.78	20.18	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	50RB#0-100RB#0	18.45	20.85	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	1RB#0-0RB#0	18.01	20.41	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	18.64	21.04	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	1RB#0-0RB#0	18.1	20.5	33	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	50RB#0-100RB#0	18.65	21.05	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	1RB#0-0RB#0	22.77	25.17	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	21.66	24.06	33	PASS

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7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	1RB#0-0RB#0	22.81	25.21	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	21.6	24	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	1RB#0-0RB#0	22.74	25.14	33	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	21.58	23.98	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	1RB#0-0RB#0	22.02	24.42	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	20.6	23	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	1RB#0-0RB#0	22.02	24.42	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	20.72	23.12	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	1RB#0-0RB#0	22.06	24.46	33	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	20.59	22.99	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	1RB#0-0RB#0	20.78	23.18	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	20	22.4	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	1RB#0-0RB#0	21.23	23.63	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	20.69	23.09	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	1RB#0-0RB#0	21.19	23.59	33	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	20.63	23.03	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	1RB#0-0RB#0	17.91	20.31	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	75RB#0-50RB#0	18.62	21.02	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	1RB#0-0RB#0	18.03	20.43	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	18.66	21.06	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	1RB#0-0RB#0	18.19	20.59	33	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	75RB#0-50RB#0	18.65	21.05	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	1RB#0-0RB#0	22.75	25.15	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	21.68	24.08	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	1RB#0-0RB#0	22.78	25.18	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	21.71	24.11	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	1RB#0-0RB#0	22.76	25.16	33	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	21.58	23.98	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	1RB#0-0RB#0	22	24.4	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	20.67	23.07	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	1RB#0-0RB#0	21.97	24.37	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	20.71	23.11	33	PASS

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7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	1RB#0-0RB#0	21.94	24.34	33	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	20.63	23.03	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	1RB#0-0RB#0	20.74	23.14	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	19.96	22.36	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	1RB#0-0RB#0	21.11	23.51	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	20.63	23.03	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	1RB#0-0RB#0	21.04	23.44	33	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	20.65	23.05	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	20825-20975	1RB#0-0RB#0	17.67	20.07	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	20825-20975	75RB#0-75RB#0	18.62	21.02	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	1RB#0-0RB#0	18.13	20.53	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	75RB#0-75RB#0	18.65	21.05	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21225-21375	1RB#0-0RB#0	17.91	20.31	33	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21225-21375	75RB#0-75RB#0	18.6	21	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	1RB#0-0RB#0	22.77	25.17	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	21.67	24.07	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	1RB#0-0RB#0	22.81	25.21	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	21.66	24.06	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	1RB#0-0RB#0	22.76	25.16	33	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	21.62	24.02	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	1RB#0-0RB#0	21.93	24.33	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	20.72	23.12	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	1RB#0-0RB#0	22.06	24.46	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	20.67	23.07	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	1RB#0-0RB#0	21.97	24.37	33	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	20.67	23.07	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	1RB#0-0RB#0	20.82	23.22	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	20	22.4	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	1RB#0-0RB#0	21.05	23.45	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	20.78	23.18	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	1RB#0-0RB#0	21.11	23.51	33	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	20.52	22.92	33	PASS

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7-7	15MHz-20MHz	256QAM-256QAM	20828-20999	1RB#0-0RB#0	17.78	20.18	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	20828-20999	75RB#0-100RB#0	18.62	21.02	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	1RB#0-0RB#0	17.88	20.28	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	75RB#0-100RB#0	18.7	21.1	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21179-21350	1RB#0-0RB#0	17.96	20.36	33	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21179-21350	75RB#0-100RB#0	18.57	20.97	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	21.69	24.09	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	1RB#0-0RB#0	22.79	25.19	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	21.66	24.06	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	1RB#0-0RB#0	20.81	23.21	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	21.62	24.02	33	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	1RB#0-0RB#0	22.84	25.24	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	20.64	23.04	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	1RB#0-0RB#0	22.02	24.42	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	20.66	23.06	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	1RB#0-0RB#0	22.06	24.46	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	20.75	23.15	33	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	1RB#0-0RB#0	22	24.4	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	20.31	22.71	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	1RB#0-0RB#0	20.83	23.23	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	20.68	23.08	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	1RB#0-0RB#0	21.19	23.59	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	20.65	23.05	33	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	1RB#0-0RB#0	21.18	23.58	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	20850-20994	100RB#0-50RB#0	18.75	21.15	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	20850-20994	1RB#0-0RB#0	17.87	20.27	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	100RB#0-50RB#0	18.68	21.08	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	1RB#0-0RB#0	18.1	20.5	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21251-21395	100RB#0-50RB#0	18.63	21.03	33	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21251-21395	1RB#0-0RB#0	18.01	20.41	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	21.64	24.04	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	1RB#0-0RB#0	22.78	25.18	33	PASS

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7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	21.65	24.05	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	1RB#0-0RB#0	22.79	25.19	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	21.64	24.04	33	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	1RB#0-0RB#0	22.77	25.17	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	20.7	23.1	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	1RB#0-0RB#0	22.03	24.43	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	20.66	23.06	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	1RB#0-0RB#0	21.98	24.38	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	20.61	23.01	33	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	1RB#0-0RB#0	22.07	24.47	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	20.17	22.57	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	1RB#0-0RB#0	20.74	23.14	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	20.66	23.06	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	1RB#0-0RB#0	21.11	23.51	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	20.64	23.04	33	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	1RB#0-0RB#0	21.16	23.56	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	100RB#0-75RB#0	18.74	21.14	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	1RB#0-0RB#0	17.82	20.22	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	18.68	21.08	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	1RB#0-0RB#0	18.01	20.41	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	100RB#0-75RB#0	18.58	20.98	33	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	1RB#0-0RB#0	18.12	20.52	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	21.68	24.08	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	1RB#0-0RB#0	22.75	25.15	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	21.61	24.01	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	1RB#0-0RB#0	22.77	25.17	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	21.63	24.03	33	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	1RB#0-0RB#0	22.78	25.18	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	20.69	23.09	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	1RB#0-0RB#0	22.05	24.45	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	20.65	23.05	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	1RB#0-0RB#0	21.95	24.35	33	PASS

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7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	20.65	23.05	33	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	1RB#0-0RB#0	22.05	24.45	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	20.21	22.61	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	1RB#0-0RB#0	20.8	23.2	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	20.68	23.08	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	1RB#0-0RB#0	21.15	23.55	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	20.61	23.01	33	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	1RB#0-0RB#0	21.09	23.49	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	18.72	21.12	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	1RB#0-0RB#0	17.82	20.22	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	18.66	21.06	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	1RB#0-0RB#0	17.95	20.35	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	18.7	21.1	33	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	1RB#0-0RB#0	18	20.4	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	20850-21048	100RB#0-100RB#0	8.26	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	8.18	13	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	8.28	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	8.22	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	8.26	13	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	8.26	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	8.34	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	8.26	13	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	8.24	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	8.30	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	8.26	13	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	8.26	13	PASS

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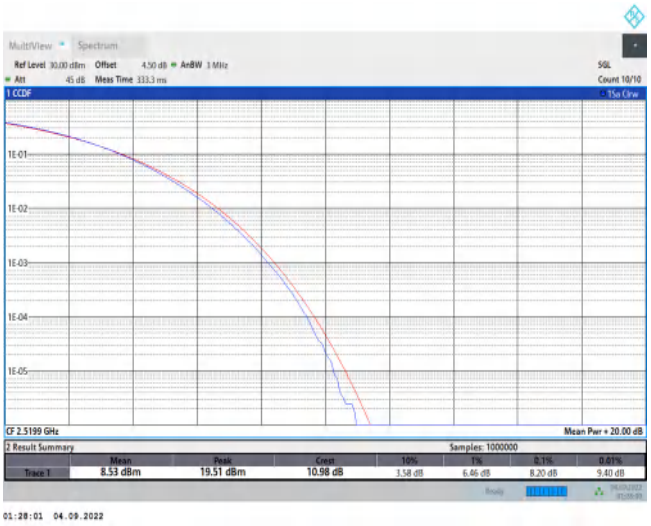
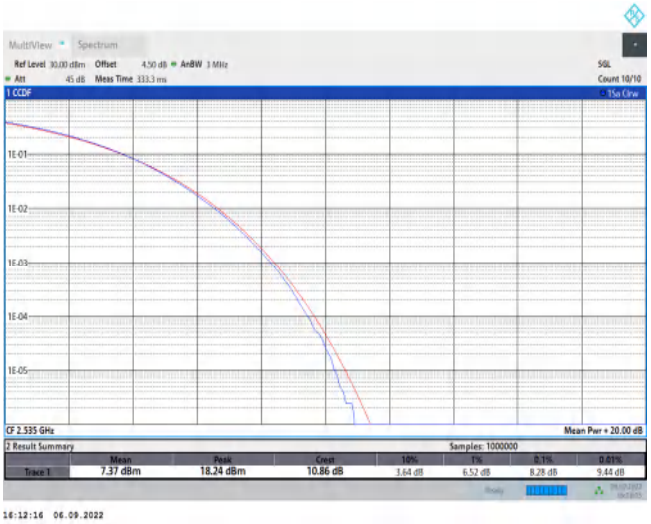
Test Graphs

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



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



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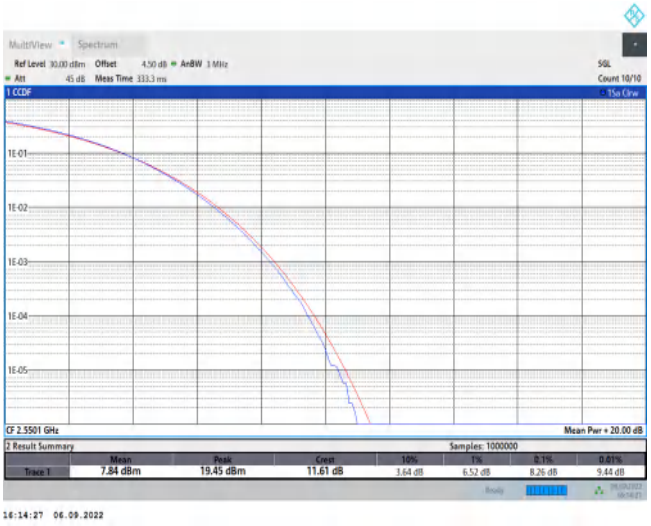
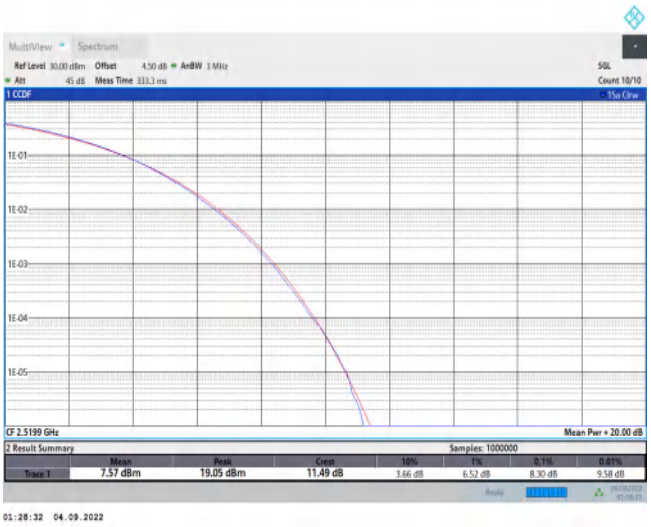
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



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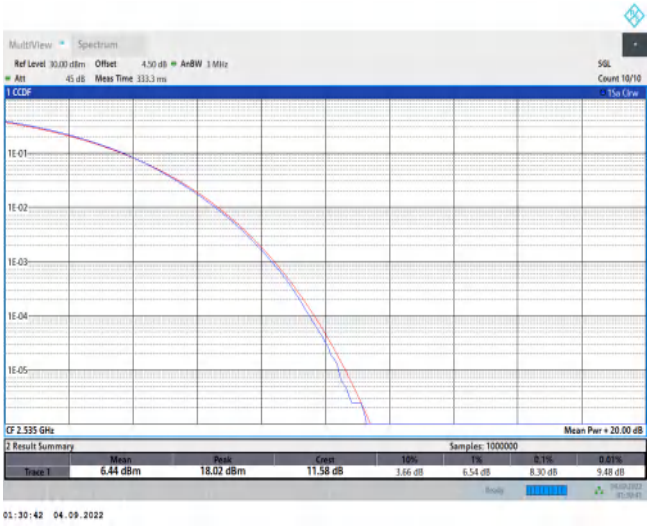

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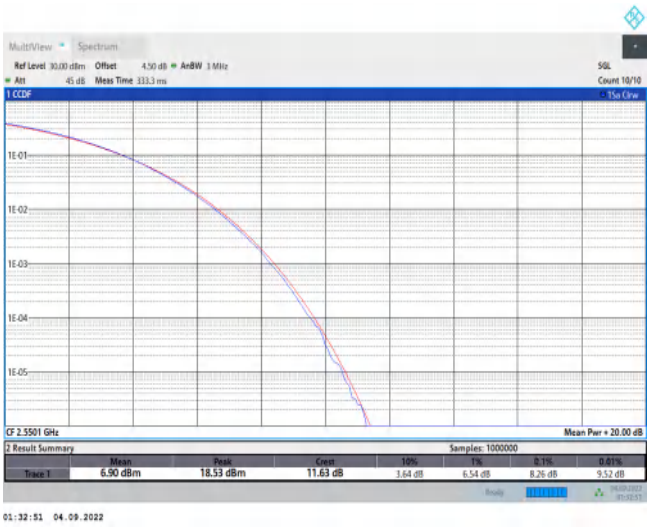

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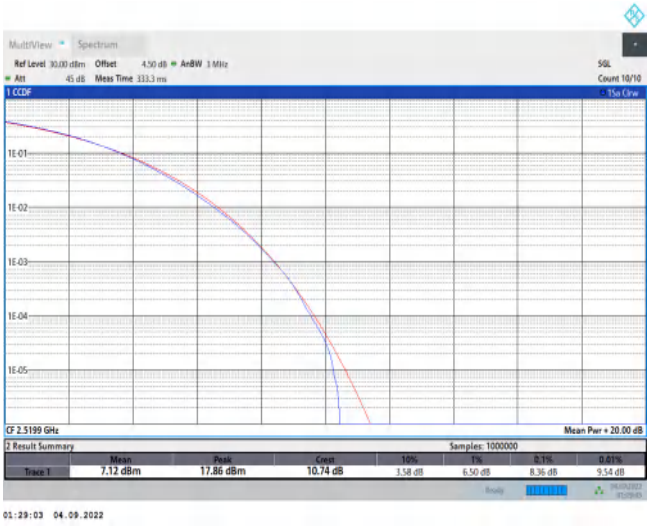

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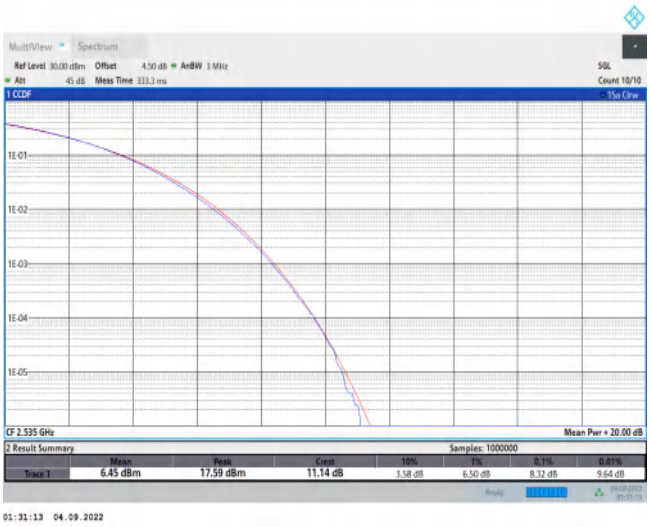

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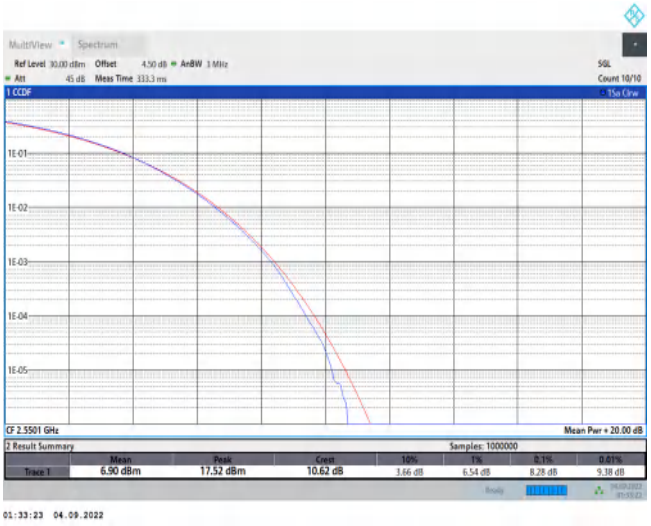
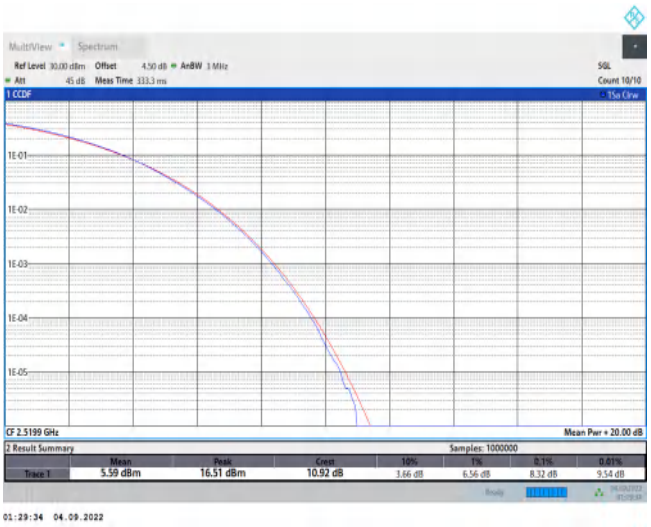


7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-100RB#0-100RB#0



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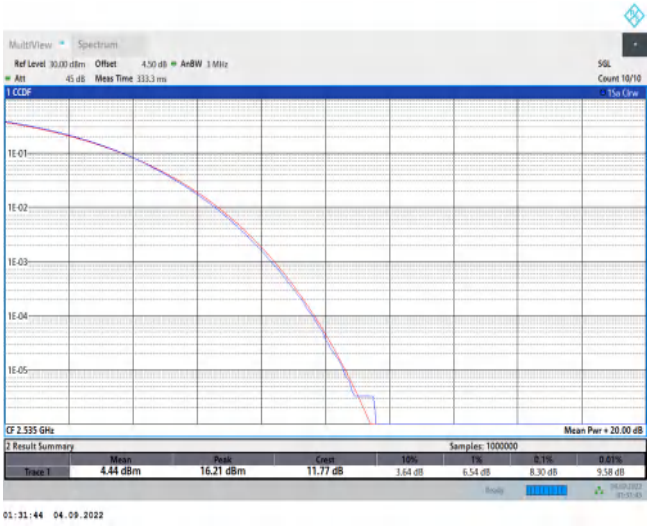
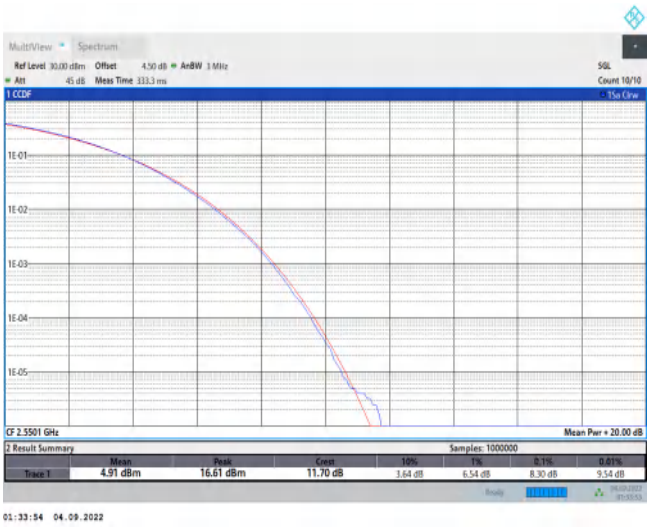
7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	8.18	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	8.26	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	8.26	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	8.26	PASS

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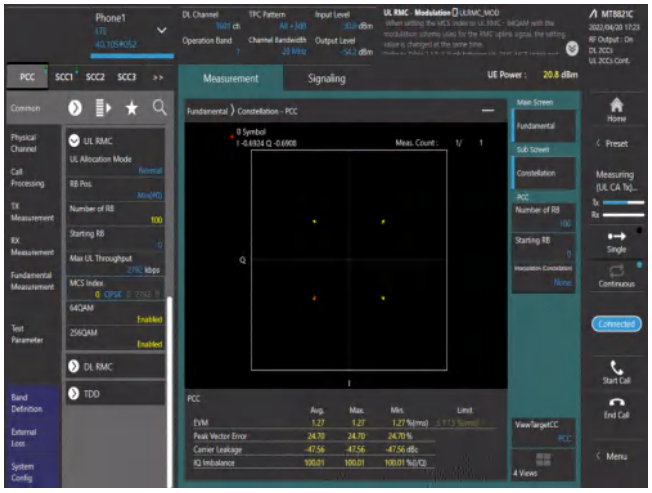
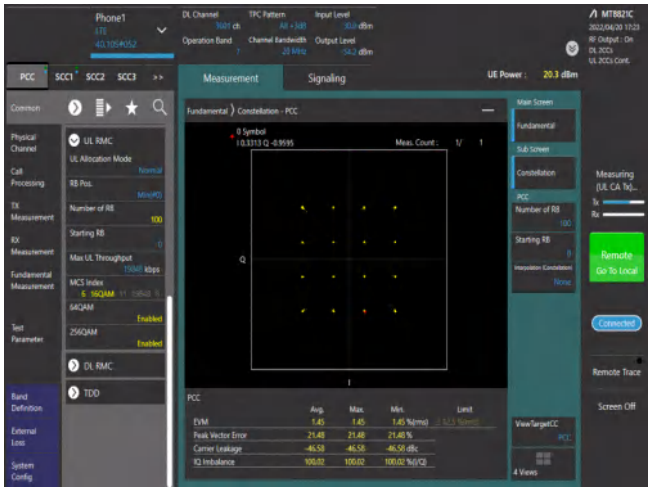
Test Graphs

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



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



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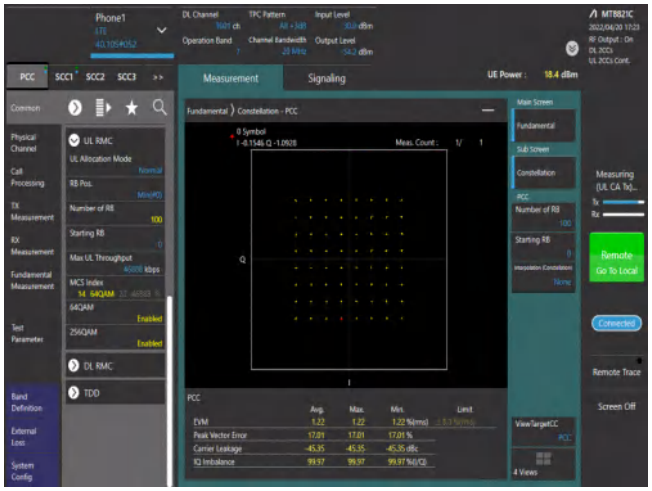
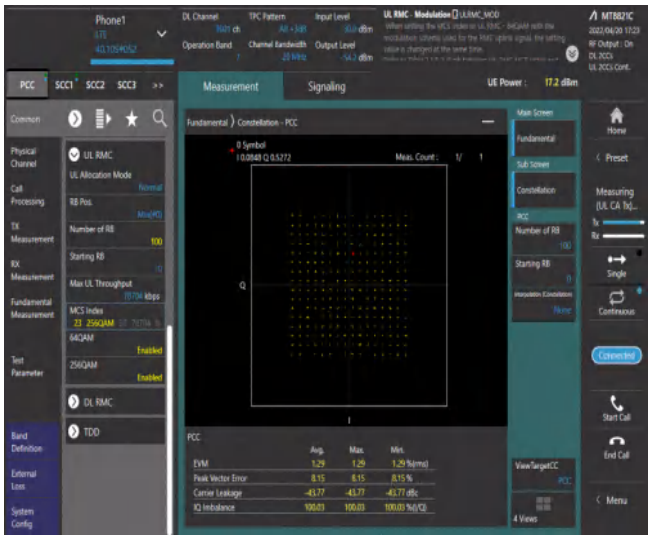

7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0


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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	27.676	29.34	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21006-21150	50RB#0-100RB#0	27.705	29.4	PASS
7-7	10MHz-20MHz	QPSK-QPSK	21206-21350	50RB#0-100RB#0	27.598	29.28	PASS
7-7	10MHz-20MHz	16QAM-16QAM	20805-20949	50RB#0-100RB#0	27.65	29.4	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21006-21150	50RB#0-100RB#0	27.692	29.28	PASS
7-7	10MHz-20MHz	16QAM-16QAM	21206-21350	50RB#0-100RB#0	27.594	29.4	PASS
7-7	10MHz-20MHz	64QAM-64QAM	20805-20949	50RB#0-100RB#0	27.679	29.22	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21006-21150	50RB#0-100RB#0	27.727	29.34	PASS
7-7	10MHz-20MHz	64QAM-64QAM	21206-21350	50RB#0-100RB#0	27.604	29.22	PASS
7-7	10MHz-20MHz	256QAM-256QAM	20805-20949	50RB#0-100RB#0	27.627	29.34	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21006-21150	50RB#0-100RB#0	27.686	29.4	PASS
7-7	10MHz-20MHz	256QAM-256QAM	21206-21350	50RB#0-100RB#0	27.554	29.28	PASS
7-7	15MHz-10MHz	QPSK-QPSK	20825-20945	75RB#0-50RB#0	23.106	24.85	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21051-21171	75RB#0-50RB#0	23.163	24.9	PASS
7-7	15MHz-10MHz	QPSK-QPSK	21277-21397	75RB#0-50RB#0	23.103	24.8	PASS
7-7	15MHz-10MHz	16QAM-16QAM	20825-20945	75RB#0-50RB#0	23.113	24.65	PASS
7-7	15MHz-10MHz	16QAM-16QAM	21051-21171	75RB#0-50RB#0	23.152	25	PASS

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7-7	15MHz-10MHz	16QAM-16QAM	21277-21397	75RB#0-50RB#0	23.033	25.05	PASS
7-7	15MHz-10MHz	64QAM-64QAM	20825-20945	75RB#0-50RB#0	23.12	24.8	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21051-21171	75RB#0-50RB#0	23.125	24.85	PASS
7-7	15MHz-10MHz	64QAM-64QAM	21277-21397	75RB#0-50RB#0	22.998	24.85	PASS
7-7	15MHz-10MHz	256QAM-256QAM	20825-20945	75RB#0-50RB#0	23.111	24.85	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21051-21171	75RB#0-50RB#0	23.15	25.05	PASS
7-7	15MHz-10MHz	256QAM-256QAM	21277-21397	75RB#0-50RB#0	23.028	24.85	PASS
7-7	15MHz-15MHz	QPSK-QPSK	20825-20975	75RB#0-75RB#0	28.225	30.24	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21025-21175	75RB#0-75RB#0	28.336	30.48	PASS
7-7	15MHz-15MHz	QPSK-QPSK	21225-21375	75RB#0-75RB#0	28.235	30.06	PASS
7-7	15MHz-15MHz	16QAM-16QAM	20825-20975	75RB#0-75RB#0	28.241	30.18	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21025-21175	75RB#0-75RB#0	28.303	30.18	PASS
7-7	15MHz-15MHz	16QAM-16QAM	21225-21375	75RB#0-75RB#0	28.193	29.94	PASS
7-7	15MHz-15MHz	64QAM-64QAM	20825-20975	75RB#0-75RB#0	28.241	29.94	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21025-21175	75RB#0-75RB#0	28.301	30.24	PASS
7-7	15MHz-15MHz	64QAM-64QAM	21225-21375	75RB#0-75RB#0	28.147	30	PASS
7-7	15MHz-15MHz	256QAM-256QAM	20825-20975	75RB#0-75RB#0	28.259	30.06	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21025-21175	75RB#0-75RB#0	28.218	30.12	PASS
7-7	15MHz-15MHz	256QAM-256QAM	21225-21375	75RB#0-75RB#0	28.16	30.12	PASS
7-7	15MHz-20MHz	QPSK-QPSK	20828-20999	75RB#0-100RB#0	32.477	34.51	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21003-21174	75RB#0-100RB#0	32.635	34.44	PASS
7-7	15MHz-20MHz	QPSK-QPSK	21179-21350	75RB#0-100RB#0	32.433	34.44	PASS

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7-7	15MHz-20MHz	16QAM-16QAM	20828-20999	75RB#0-100RB#0	32.526	34.44	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21003-21174	75RB#0-100RB#0	32.602	34.65	PASS
7-7	15MHz-20MHz	16QAM-16QAM	21179-21350	75RB#0-100RB#0	32.434	34.37	PASS
7-7	15MHz-20MHz	64QAM-64QAM	20828-20999	75RB#0-100RB#0	32.476	34.3	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21003-21174	75RB#0-100RB#0	32.616	34.58	PASS
7-7	15MHz-20MHz	64QAM-64QAM	21179-21350	75RB#0-100RB#0	32.391	34.51	PASS
7-7	15MHz-20MHz	256QAM-256QAM	20828-20999	75RB#0-100RB#0	32.486	34.3	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21003-21174	75RB#0-100RB#0	32.611	34.58	PASS
7-7	15MHz-20MHz	256QAM-256QAM	21179-21350	75RB#0-100RB#0	32.37	34.44	PASS
7-7	20MHz-10MHz	QPSK-QPSK	20850-20994	100RB#0-50RB#0	27.664	29.58	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21051-21195	100RB#0-50RB#0	27.77	29.64	PASS
7-7	20MHz-10MHz	QPSK-QPSK	21251-21395	100RB#0-50RB#0	27.644	29.7	PASS
7-7	20MHz-10MHz	16QAM-16QAM	20850-20994	100RB#0-50RB#0	27.644	29.52	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21051-21195	100RB#0-50RB#0	27.792	29.88	PASS
7-7	20MHz-10MHz	16QAM-16QAM	21251-21395	100RB#0-50RB#0	27.652	29.52	PASS
7-7	20MHz-10MHz	64QAM-64QAM	20850-20994	100RB#0-50RB#0	27.693	29.58	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21051-21195	100RB#0-50RB#0	27.743	29.76	PASS
7-7	20MHz-10MHz	64QAM-64QAM	21251-21395	100RB#0-50RB#0	27.574	29.64	PASS
7-7	20MHz-10MHz	256QAM-256QAM	20850-20994	100RB#0-50RB#0	27.626	29.58	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21051-21195	100RB#0-50RB#0	27.743	29.76	PASS
7-7	20MHz-10MHz	256QAM-256QAM	21251-21395	100RB#0-50RB#0	27.675	29.7	PASS
7-7	20MHz-15MHz	QPSK-QPSK	20850-21021	100RB#0-75RB#0	32.523	34.51	PASS

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7-7	20MHz-15MHz	QPSK-QPSK	21026-21197	100RB#0-75RB#0	32.649	34.72	PASS
7-7	20MHz-15MHz	QPSK-QPSK	21201-21372	100RB#0-75RB#0	32.494	34.72	PASS
7-7	20MHz-15MHz	16QAM-16QAM	20850-21021	100RB#0-75RB#0	32.499	34.51	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21026-21197	100RB#0-75RB#0	32.61	34.65	PASS
7-7	20MHz-15MHz	16QAM-16QAM	21201-21372	100RB#0-75RB#0	32.479	34.58	PASS
7-7	20MHz-15MHz	64QAM-64QAM	20850-21021	100RB#0-75RB#0	32.555	34.58	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21026-21197	100RB#0-75RB#0	32.579	34.86	PASS
7-7	20MHz-15MHz	64QAM-64QAM	21201-21372	100RB#0-75RB#0	32.532	34.58	PASS
7-7	20MHz-15MHz	256QAM-256QAM	20850-21021	100RB#0-75RB#0	32.466	34.72	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21026-21197	100RB#0-75RB#0	32.665	34.51	PASS
7-7	20MHz-15MHz	256QAM-256QAM	21201-21372	100RB#0-75RB#0	32.437	34.51	PASS
7-7	20MHz-20MHz	QPSK-QPSK	20850-21048	100RB#0-100RB#0	37.608	40.24	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	37.767	40.48	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21152-21350	100RB#0-100RB#0	37.666	40.48	PASS
7-7	20MHz-20MHz	16QAM-16QAM	20850-21048	100RB#0-100RB#0	37.578	40.24	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	37.693	40.48	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21152-21350	100RB#0-100RB#0	37.577	40.4	PASS
7-7	20MHz-20MHz	64QAM-64QAM	20850-21048	100RB#0-100RB#0	37.523	40.24	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21001-21199	100RB#0-100RB#0	37.696	40.48	PASS
7-7	20MHz-20MHz	64QAM-64QAM	21152-21350	100RB#0-100RB#0	37.51	40.4	PASS
7-7	20MHz-20MHz	256QAM-256QAM	20850-21048	100RB#0-100RB#0	37.548	40.56	PASS
7-7	20MHz-20MHz	256QAM-256QAM	21001-21199	100RB#0-100RB#0	37.727	40.24	PASS

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7-7	20MHz-20MHz	256QAM-256QAM	21152-21350	100RB#0-100RB#0	37.488	40.32	PASS

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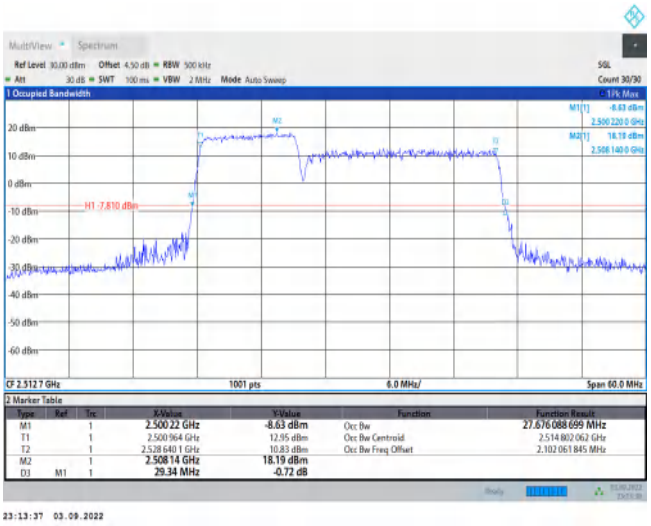
Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0



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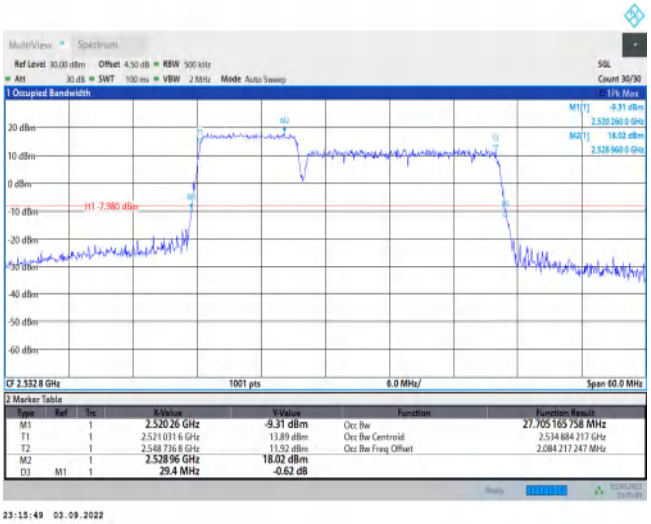

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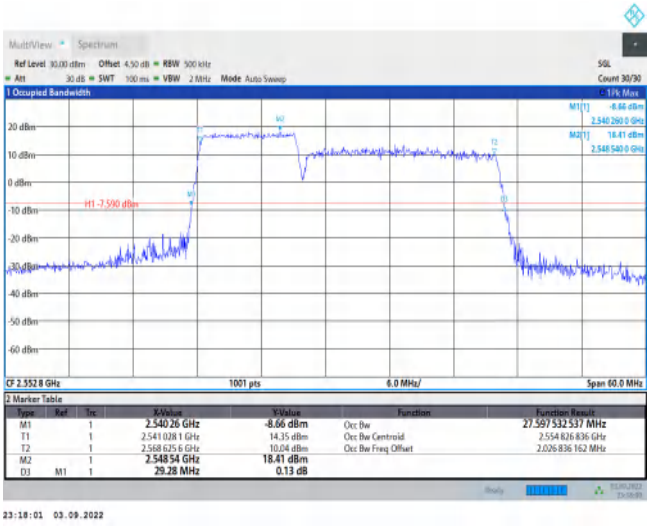

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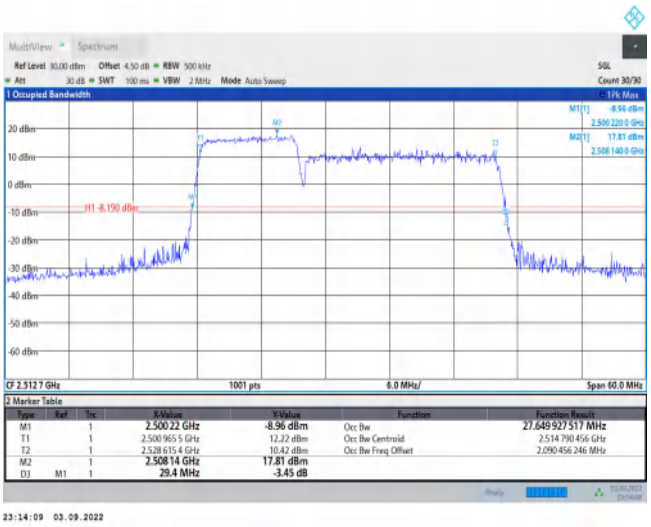

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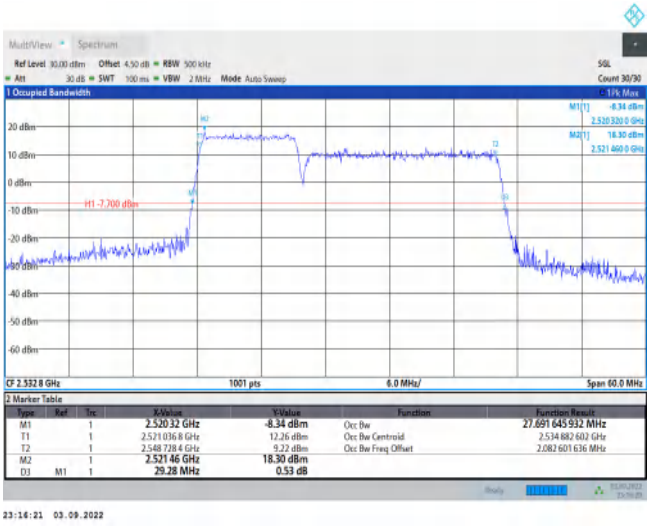
7-7-10MHz-20MHz-16QAM-16QAM-21006-21150-50RB#0-100RB#0



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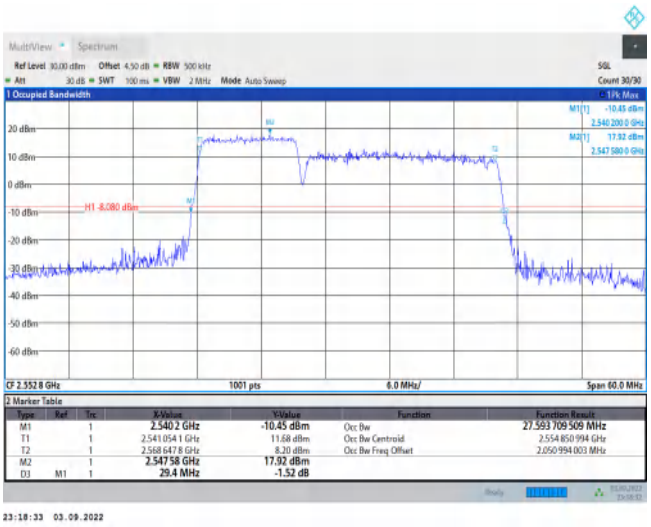

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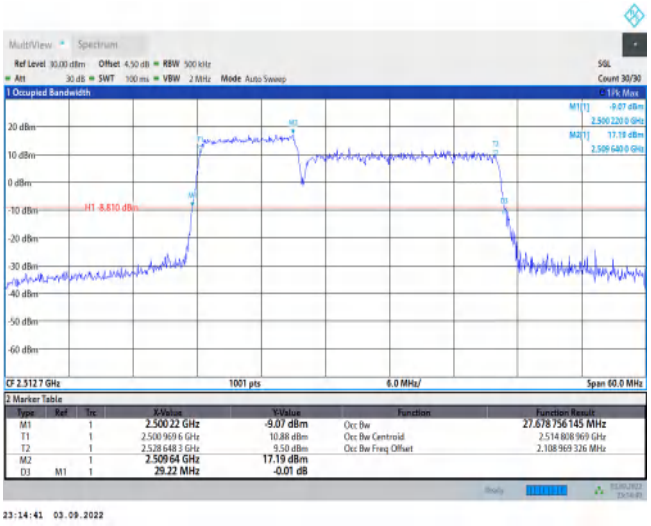
7-7-10MHz-20MHz-64QAM-64QAM-20805-20949-50RB#0-100RB#0



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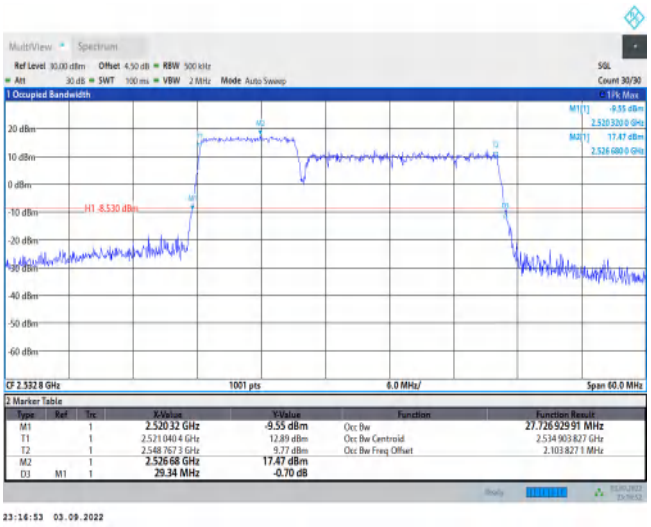

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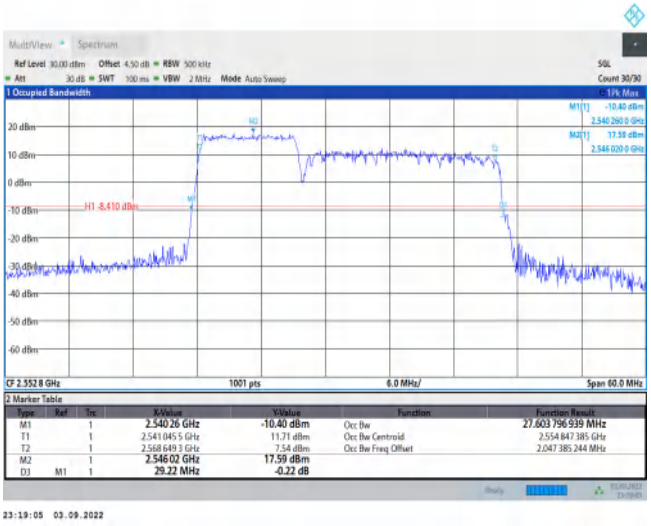

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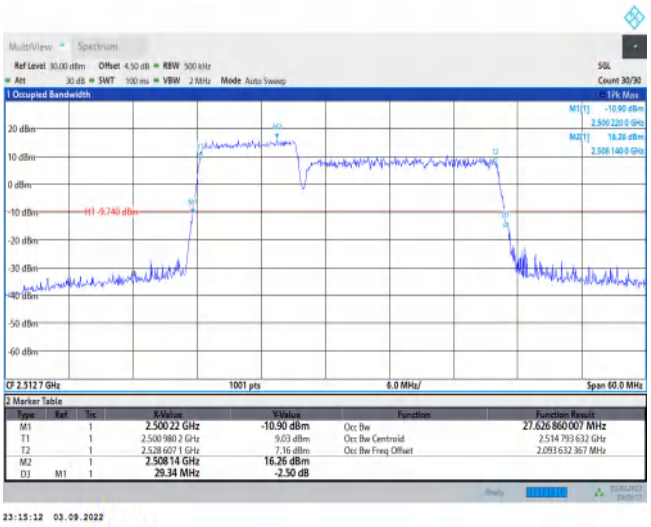

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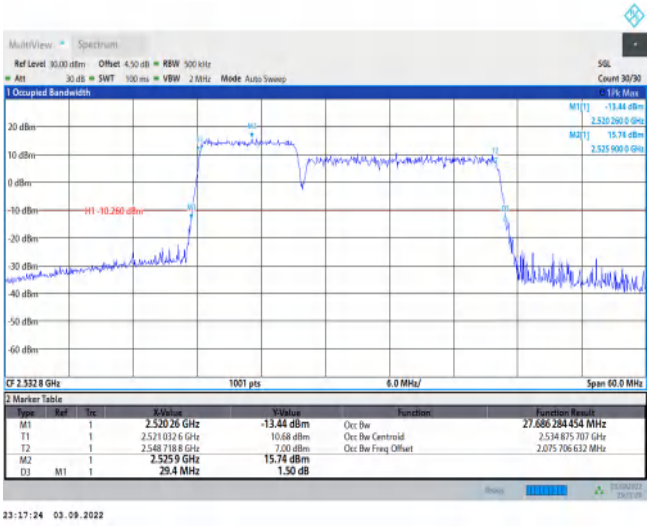

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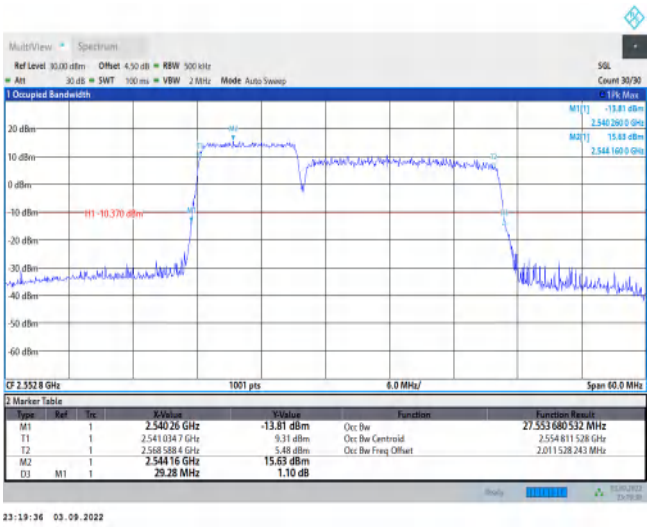

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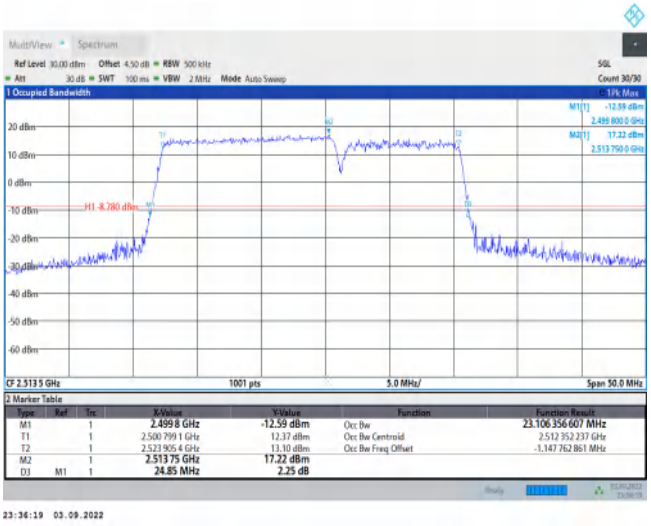

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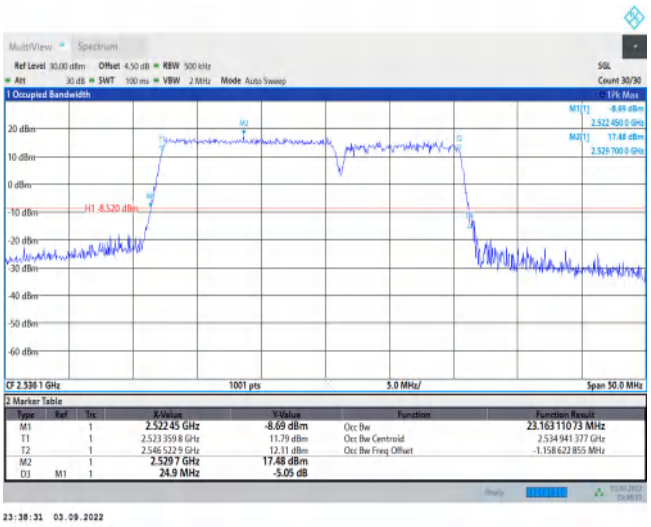

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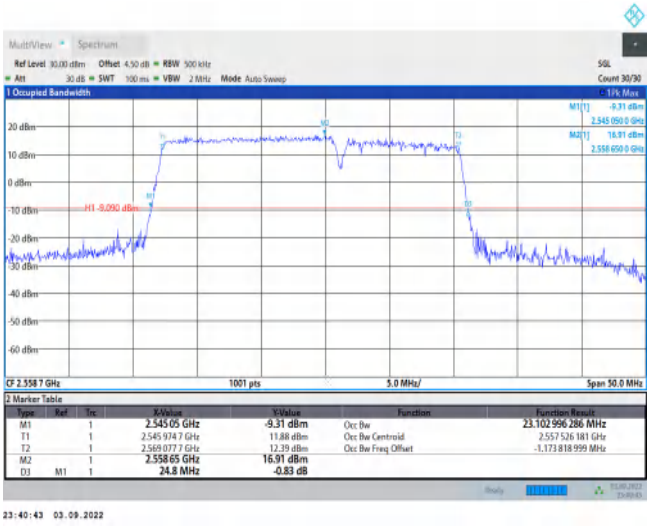

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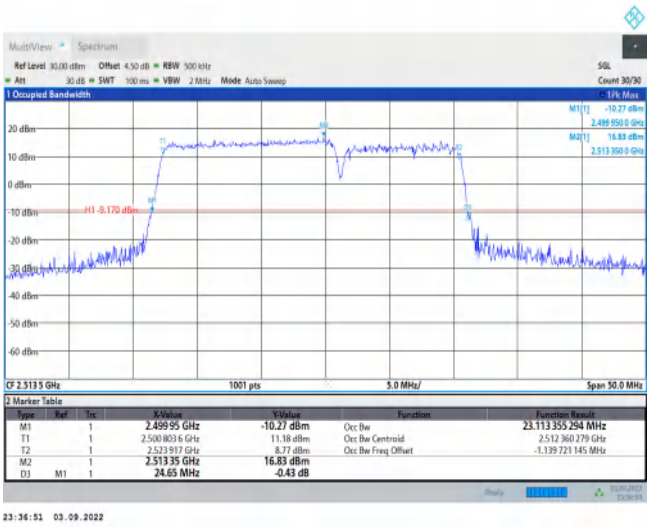

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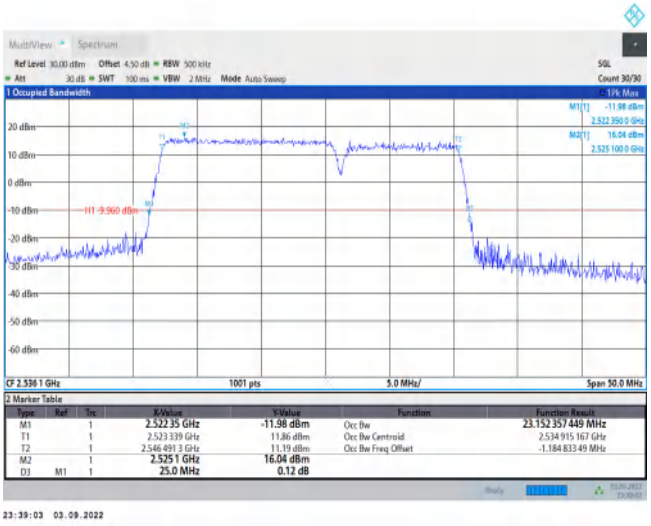

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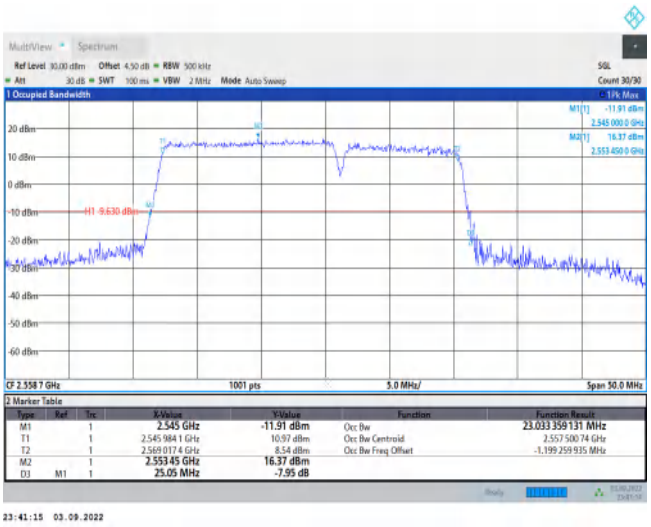

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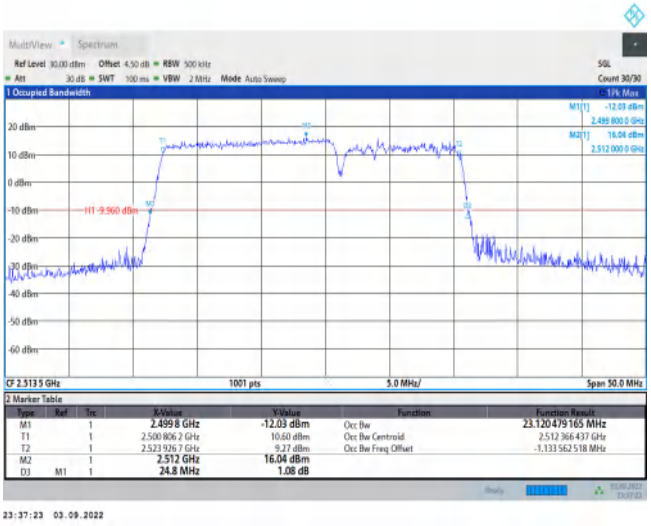

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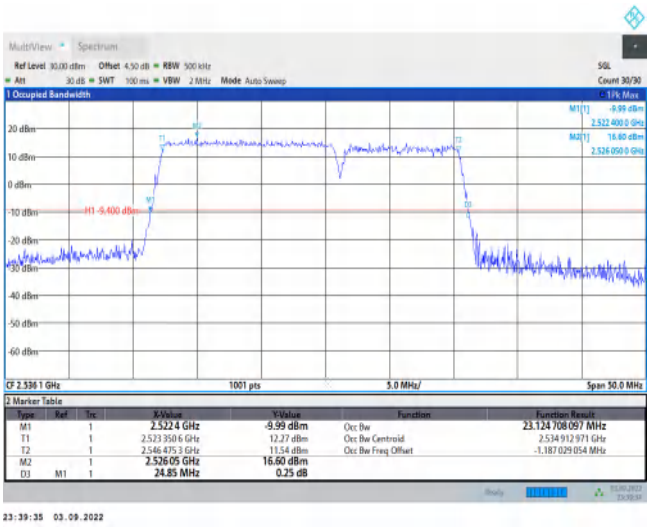

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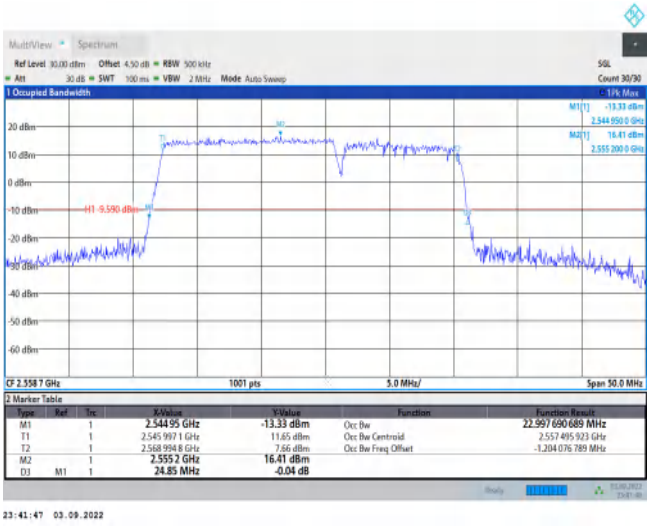

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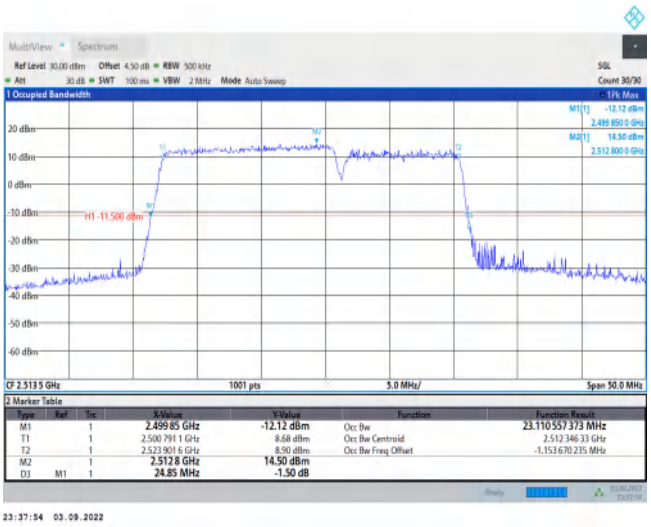

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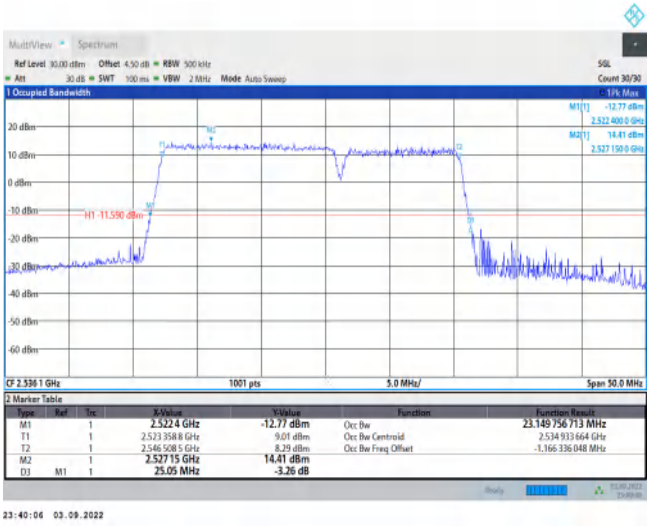

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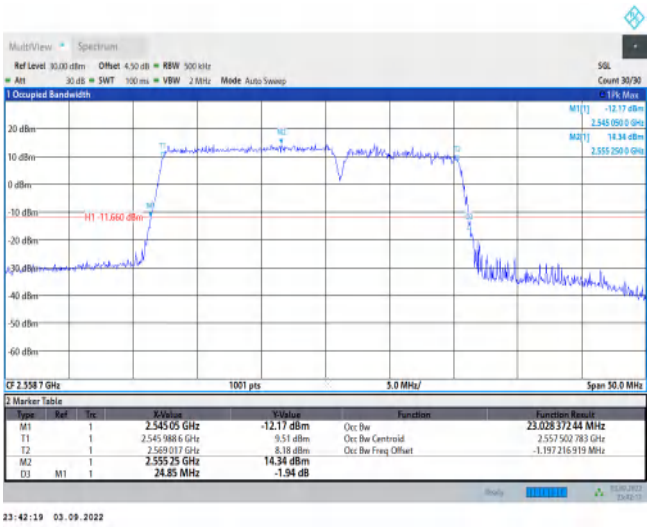

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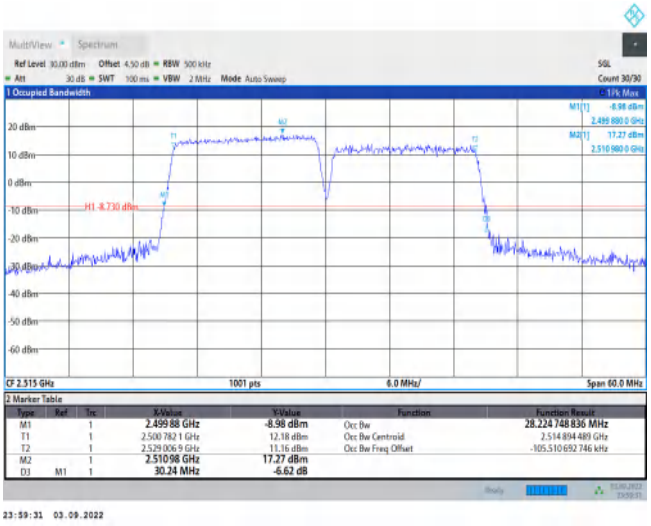

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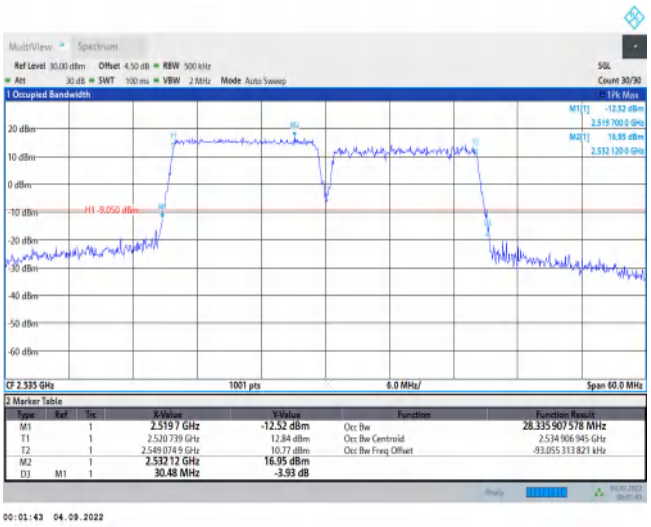

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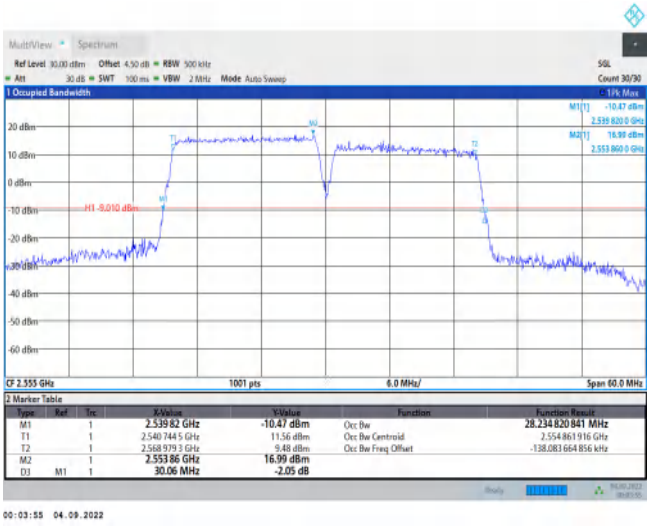

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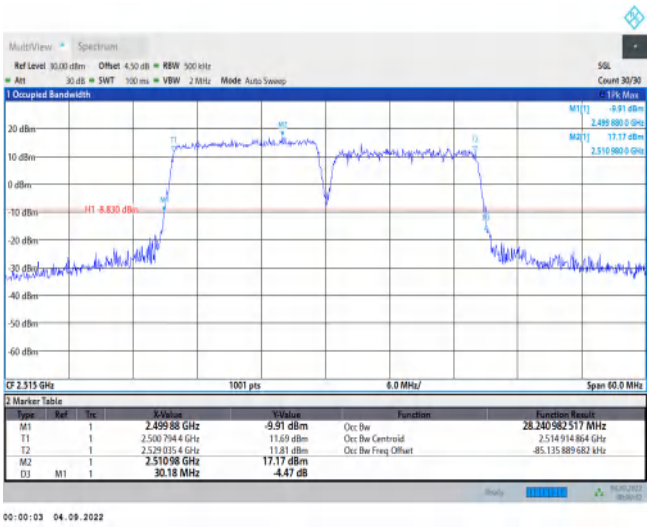

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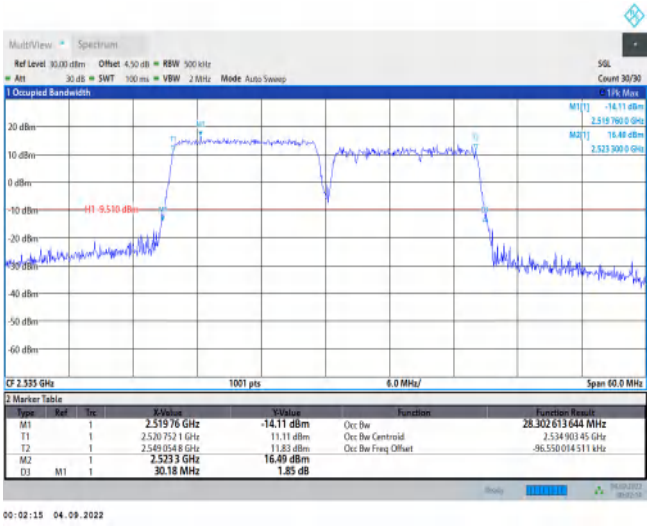

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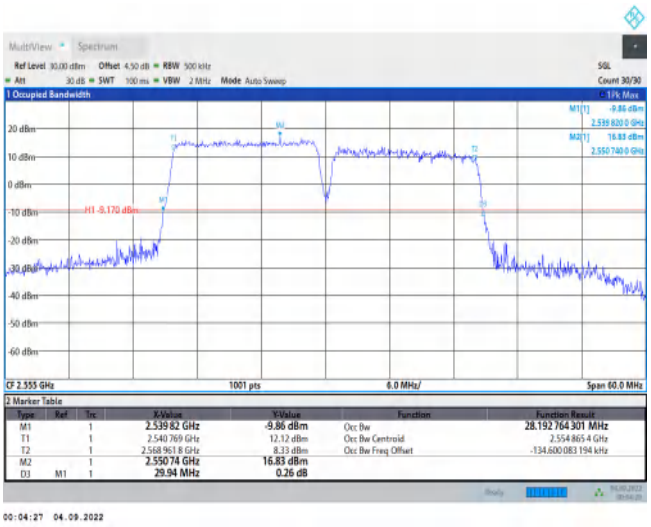

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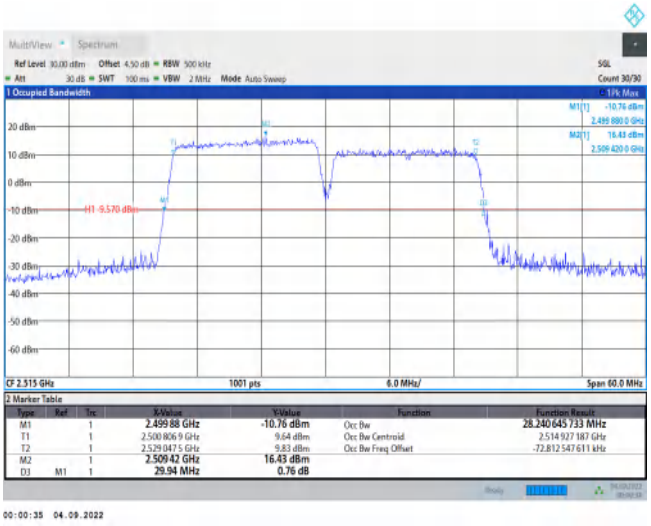

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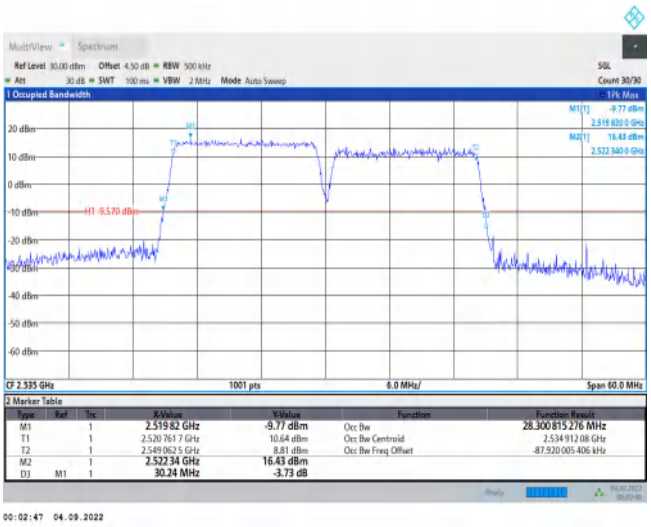

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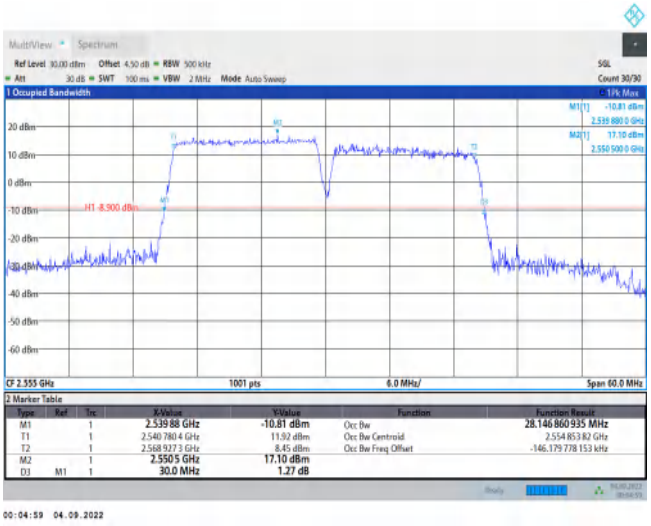

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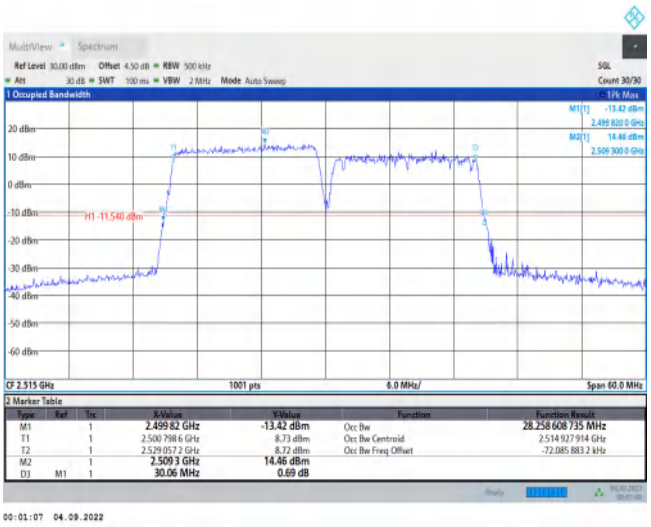

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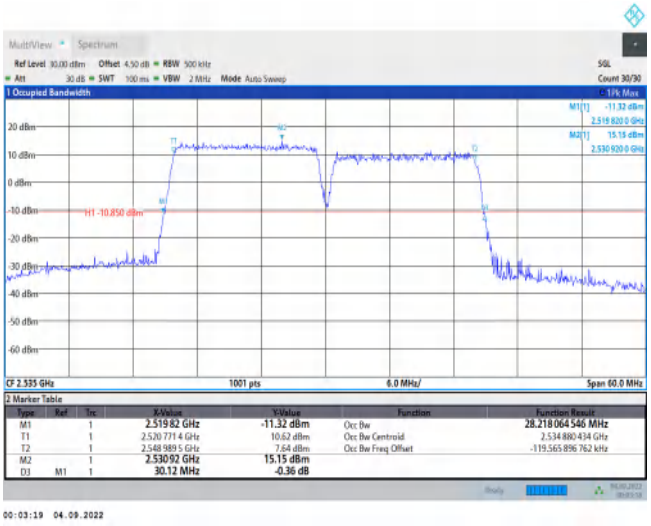

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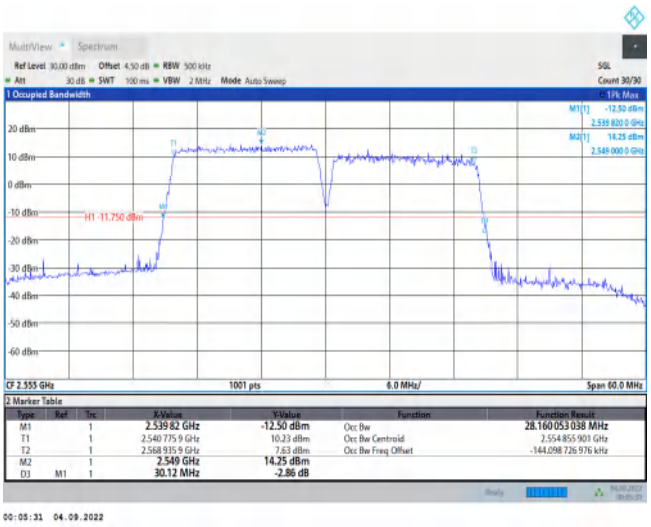

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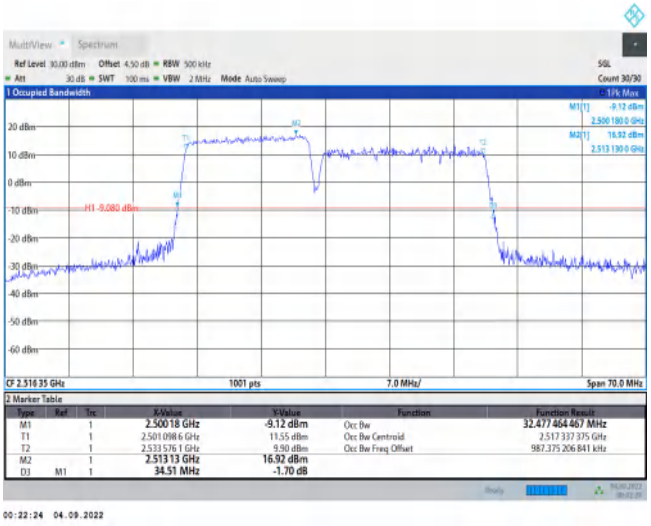

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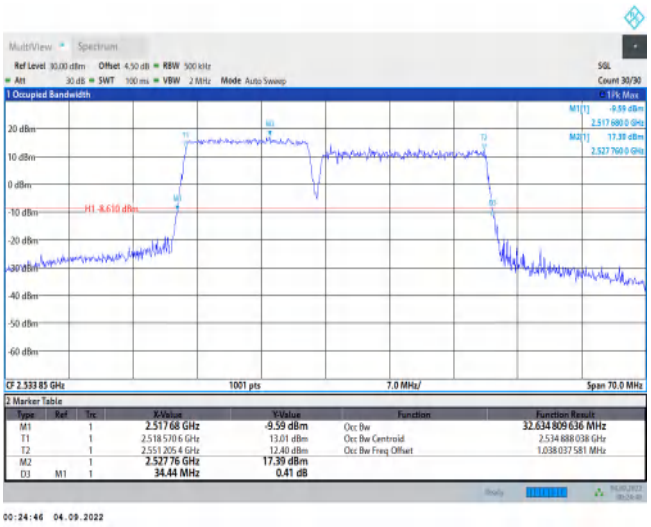

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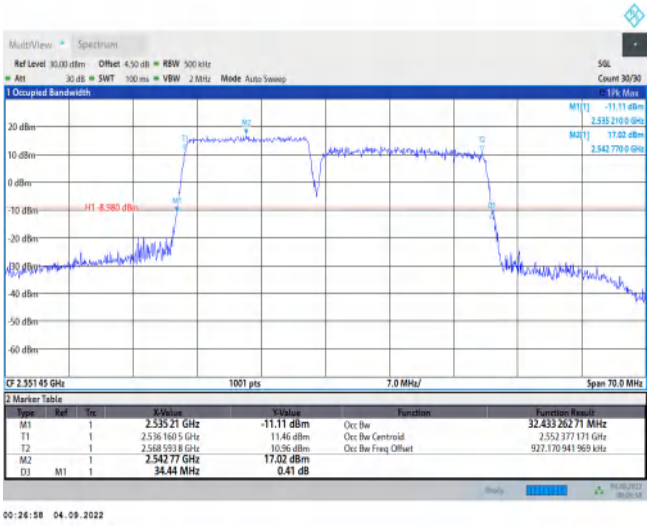

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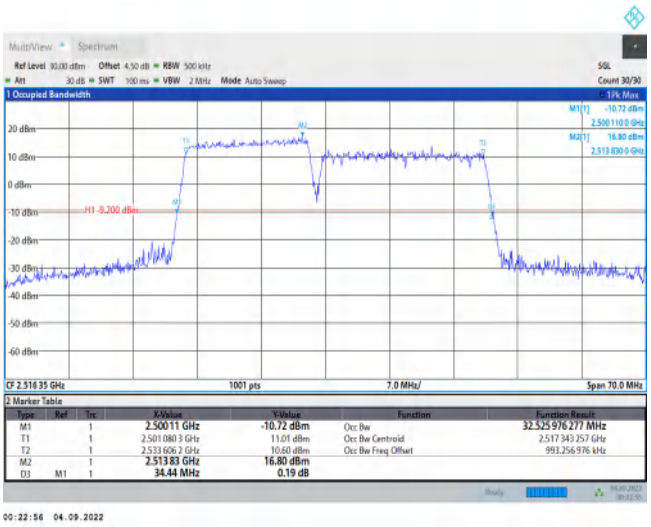

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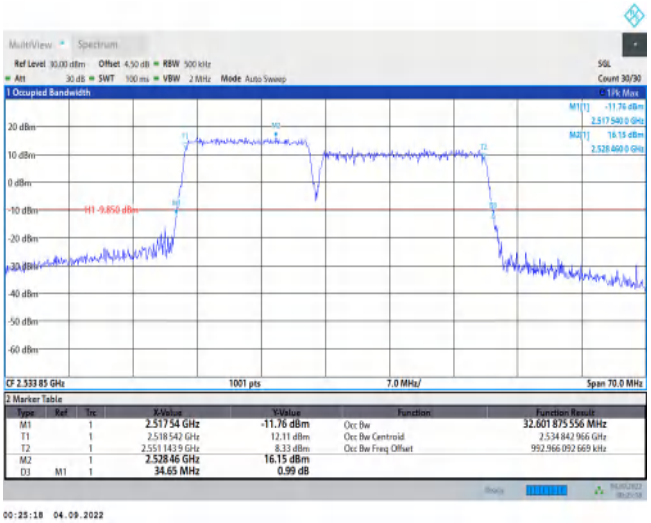

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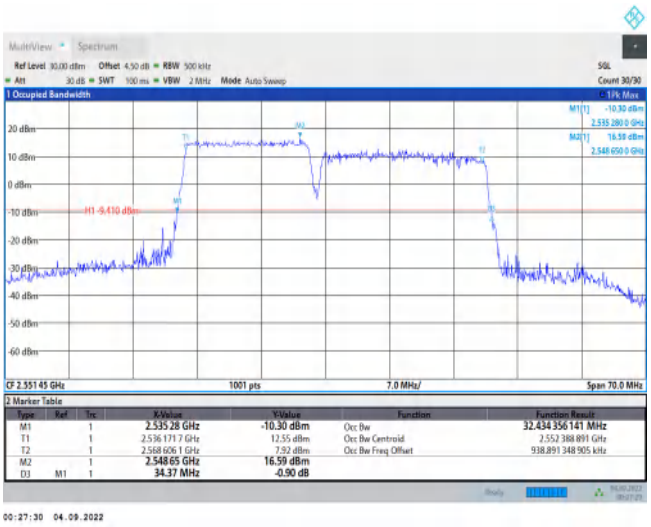

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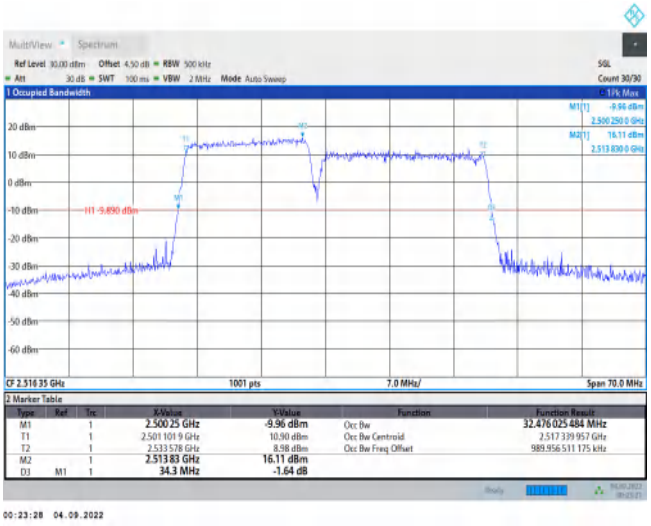

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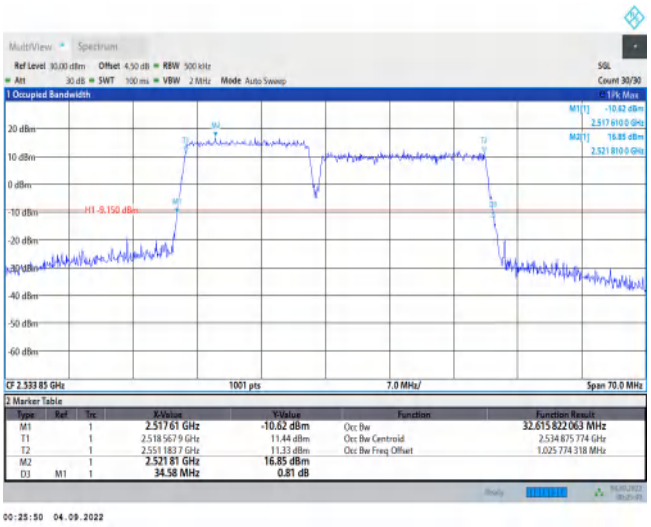

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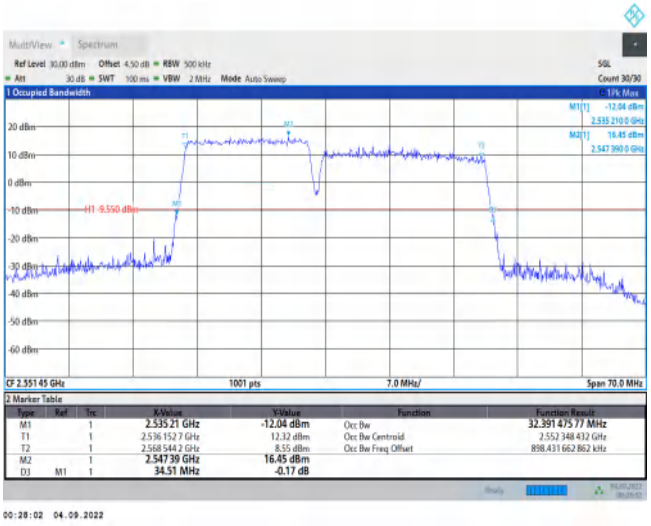

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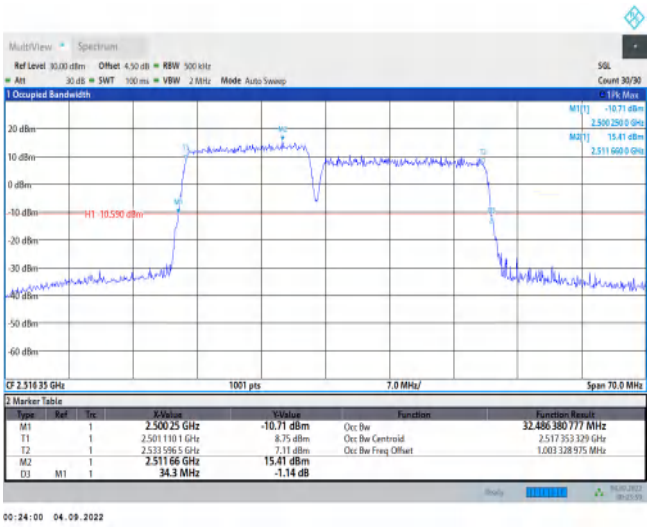

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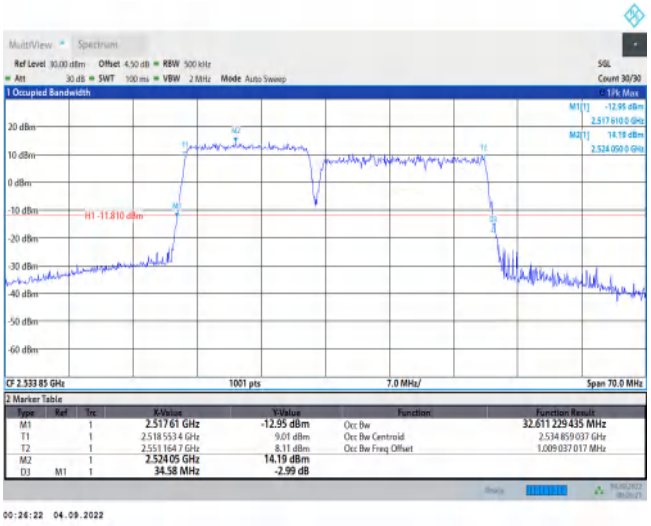

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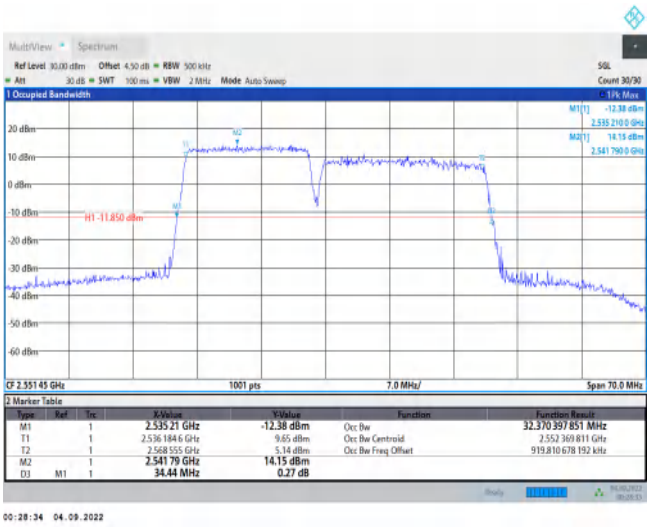

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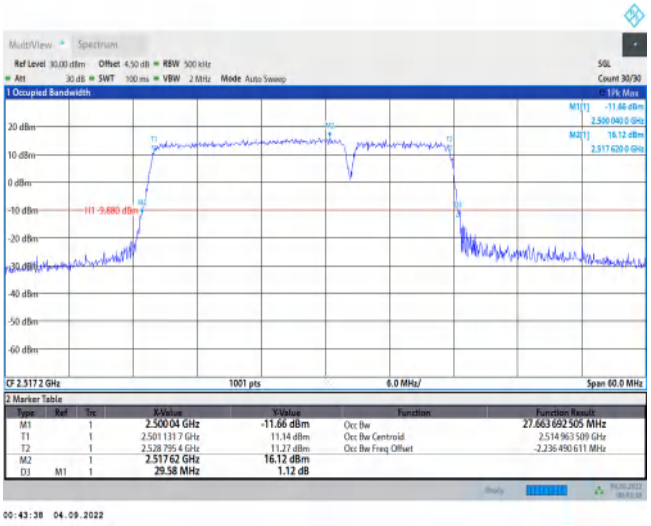

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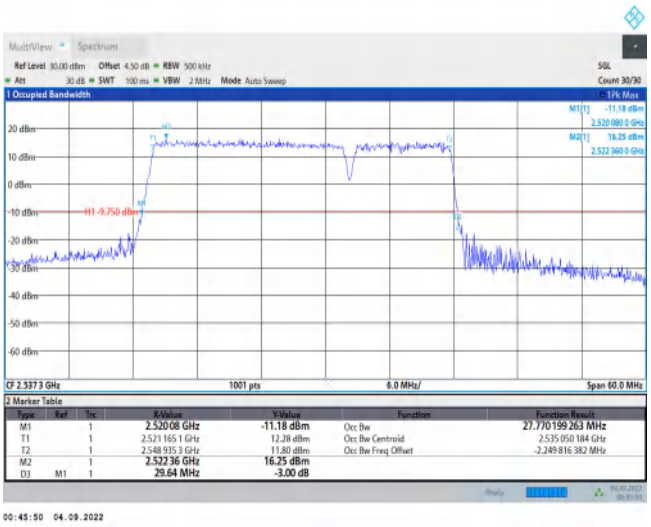

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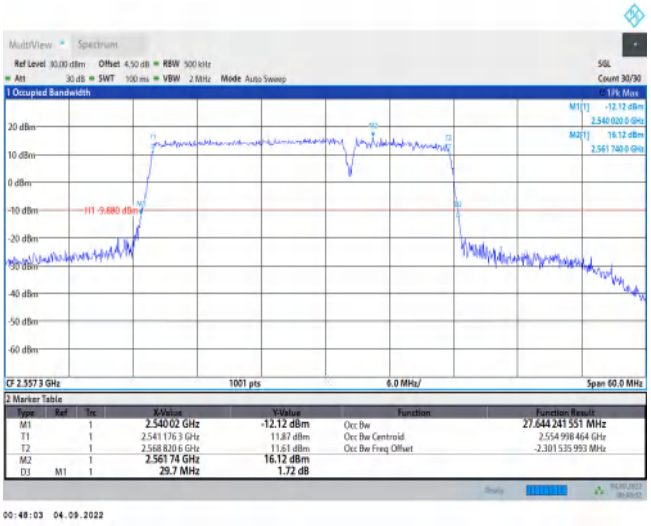

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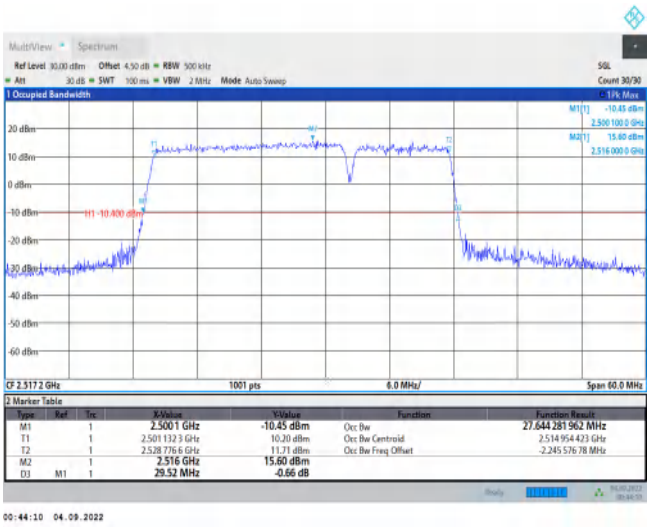

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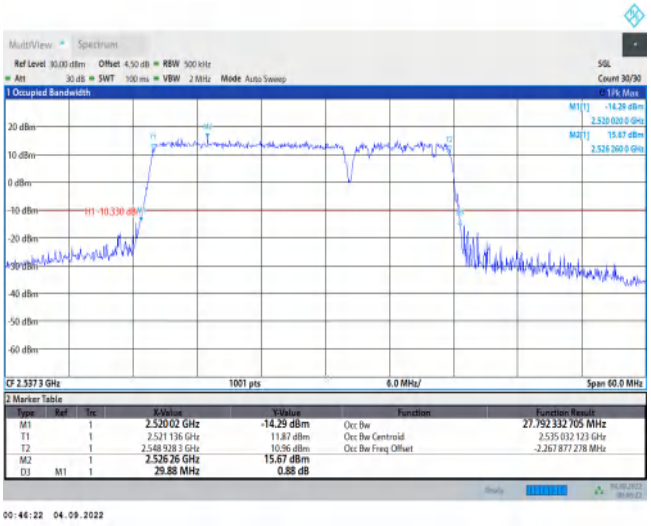

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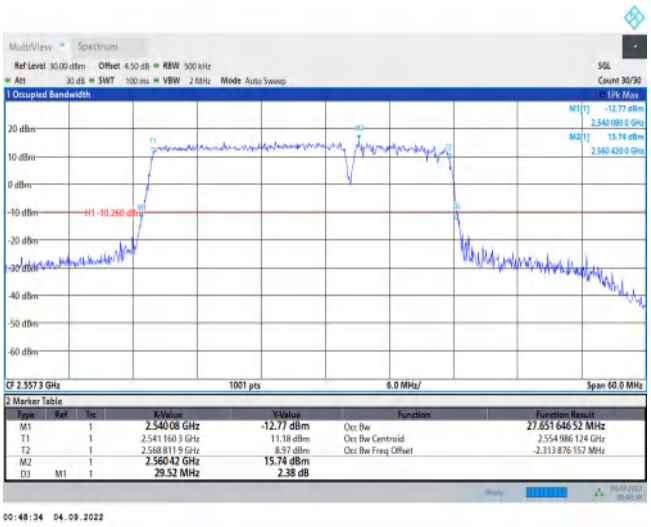

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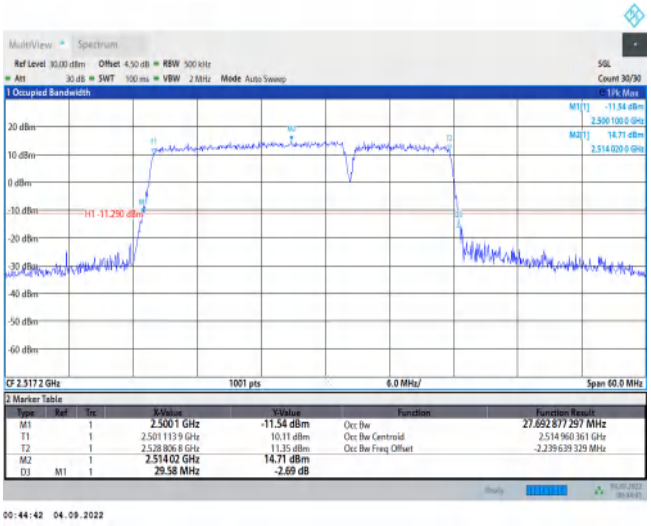
7-7-20MHz-10MHz-64QAM-64QAM-20850-20994-100RB#0-50RB#0



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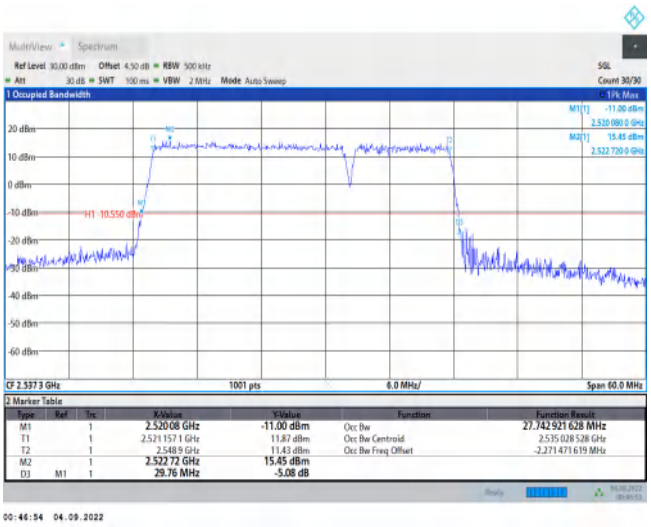

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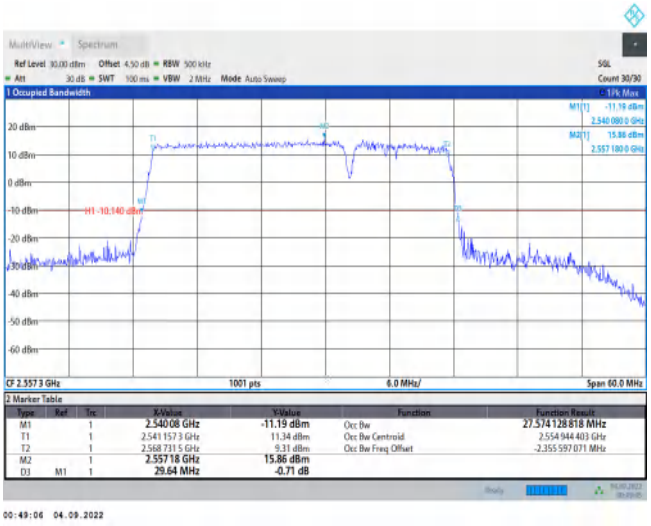

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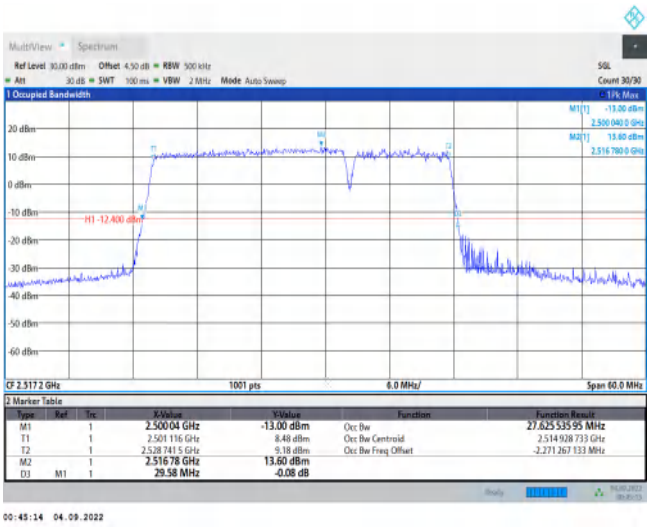

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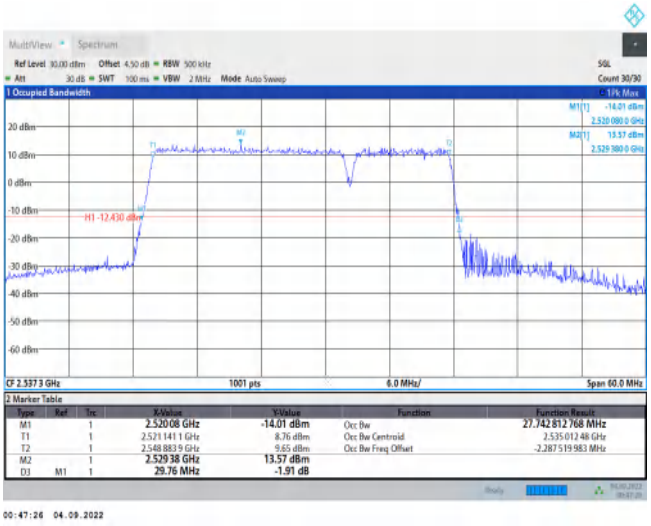

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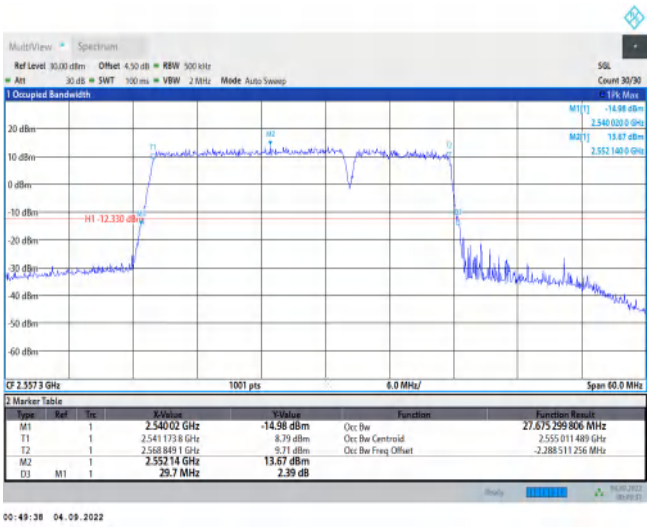

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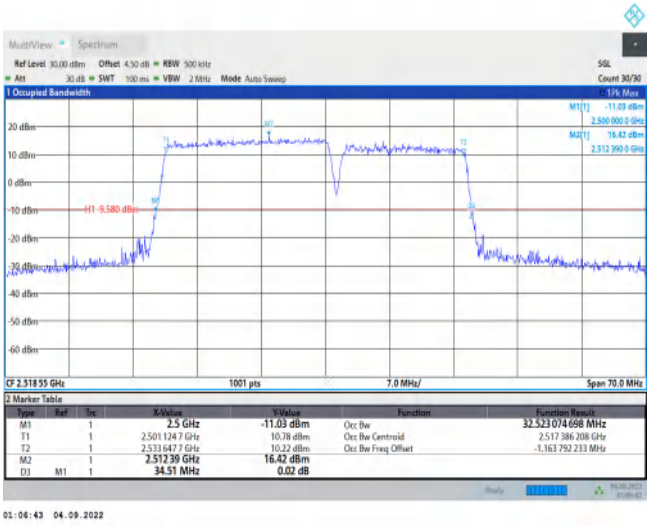
7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



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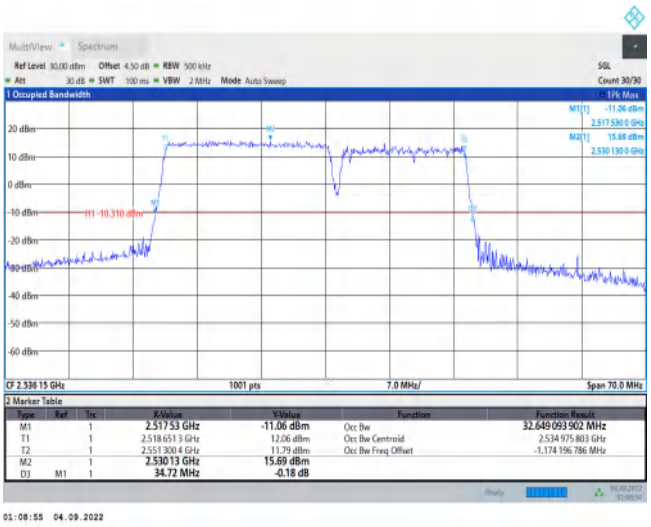

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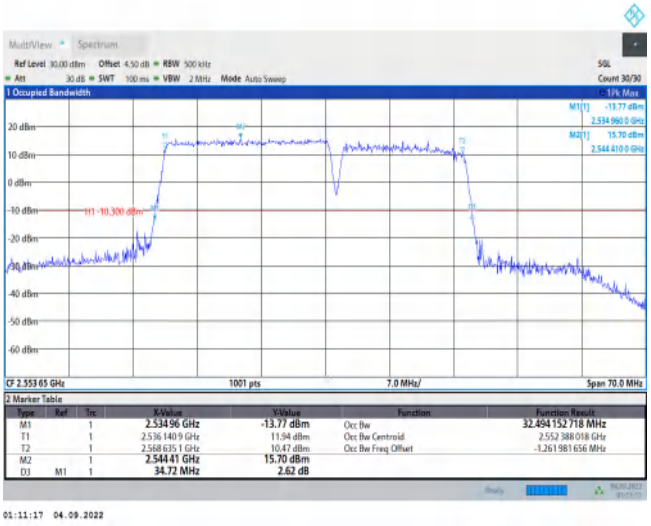

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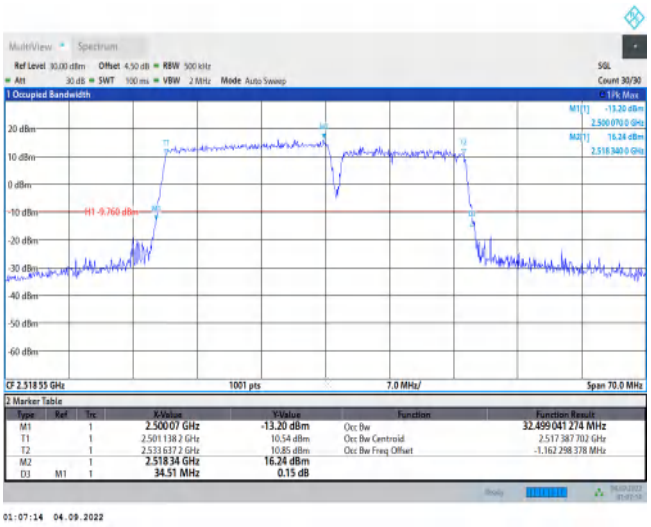

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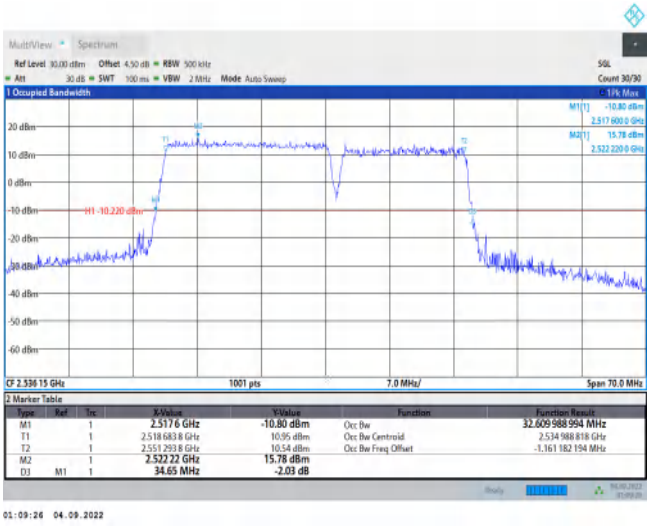

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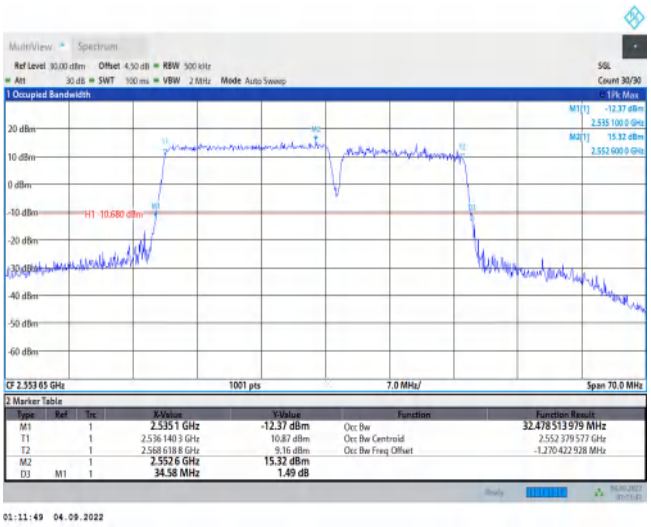

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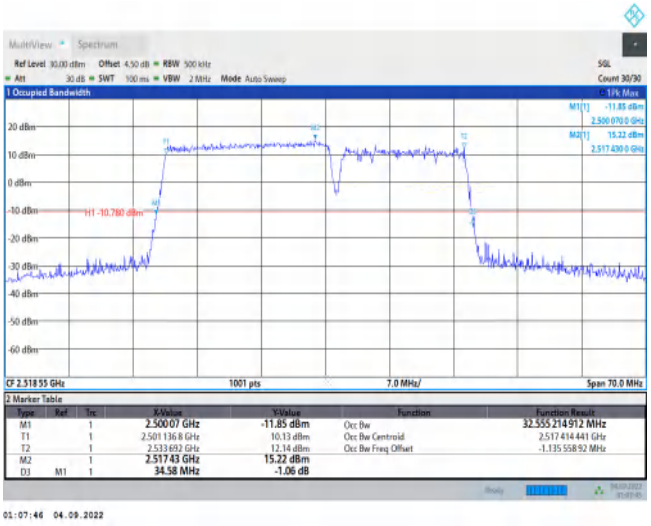

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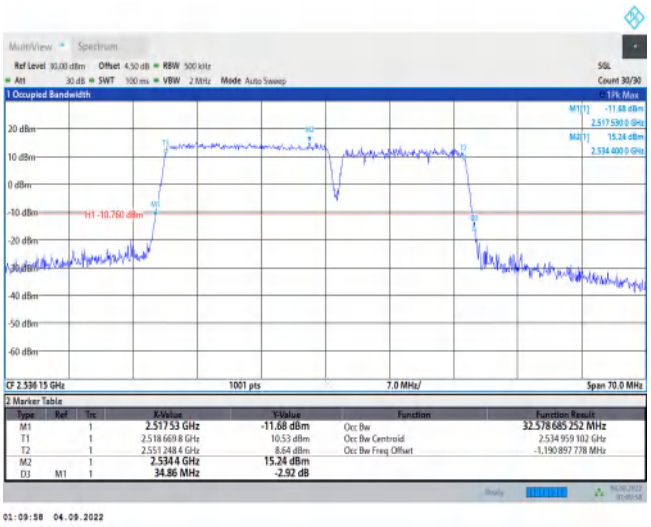

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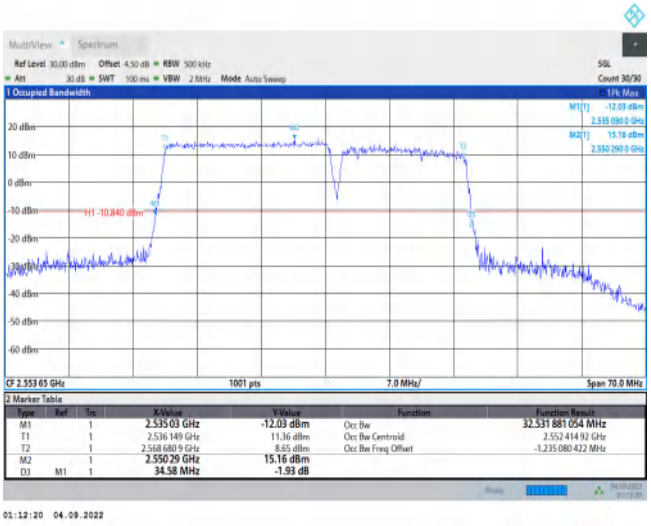

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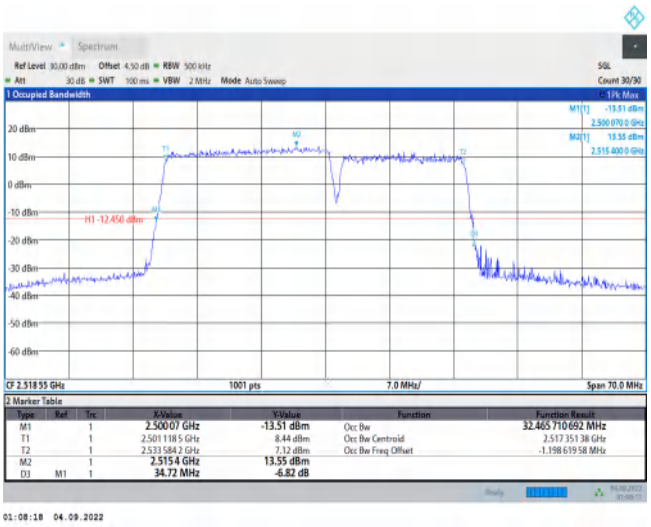

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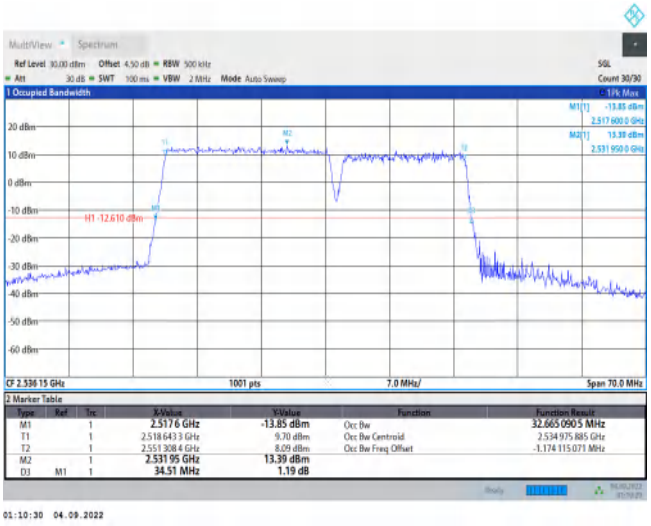

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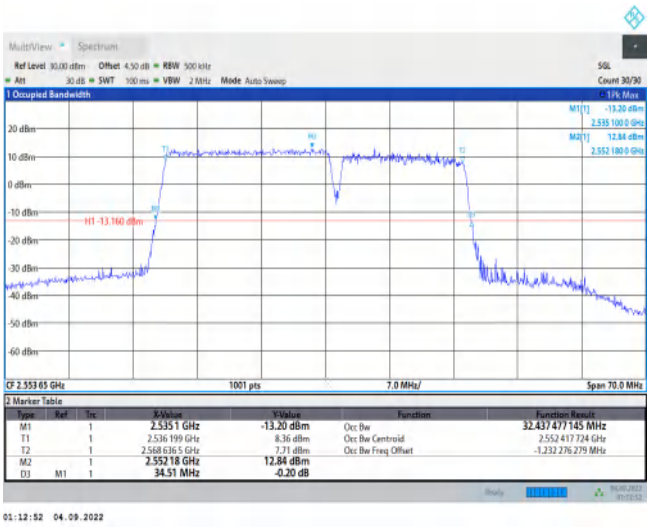

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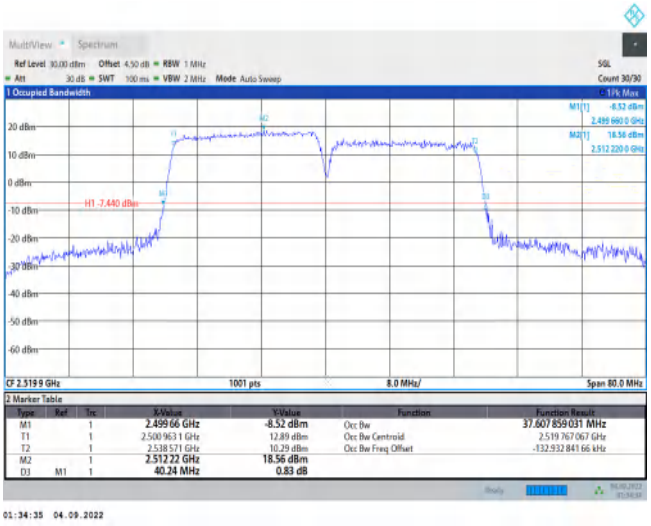

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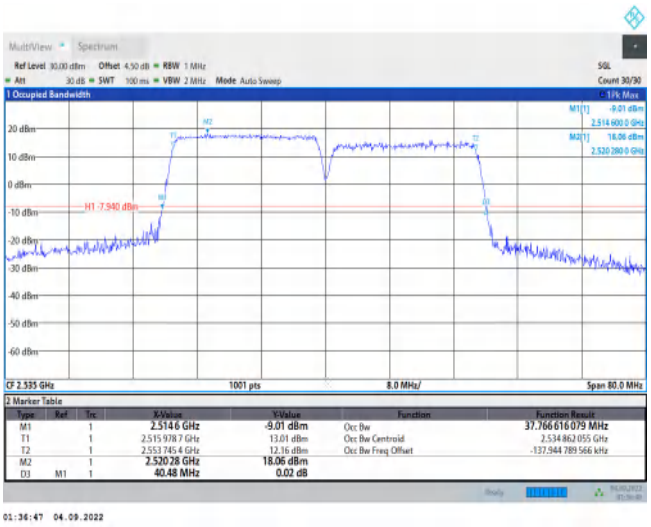

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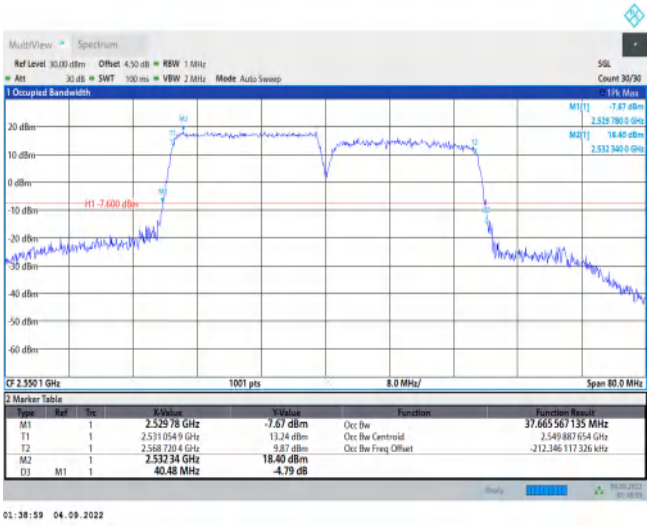

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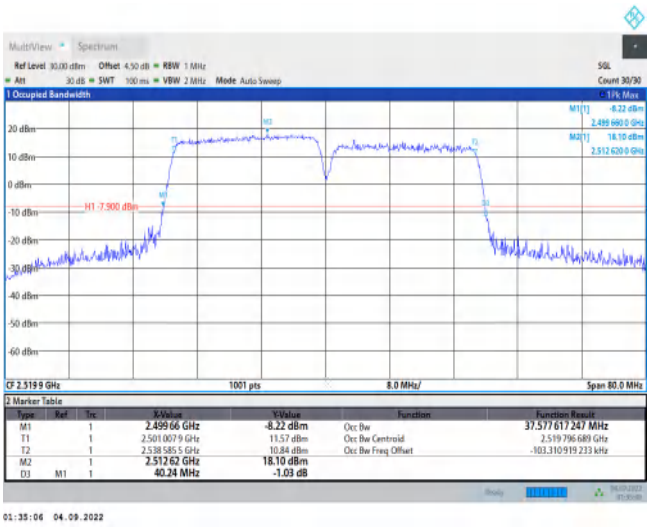

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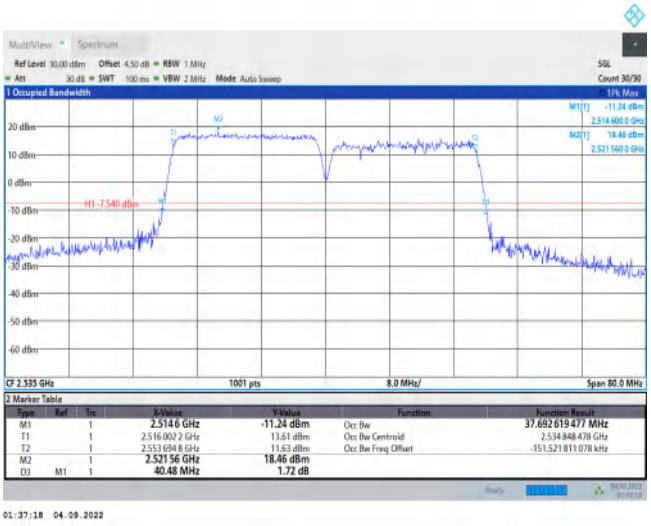

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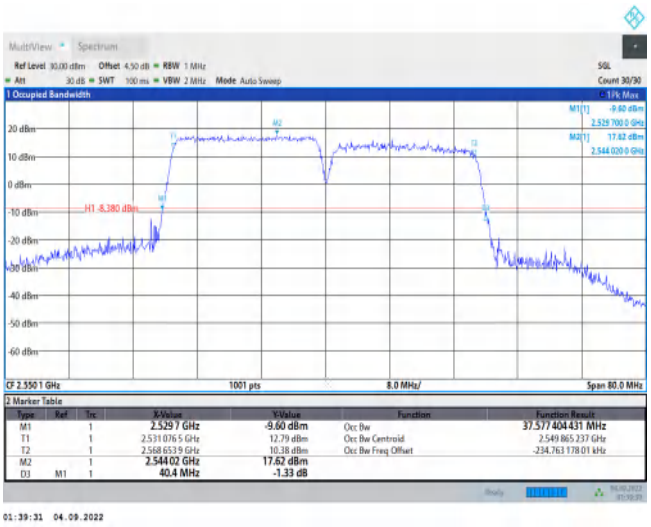

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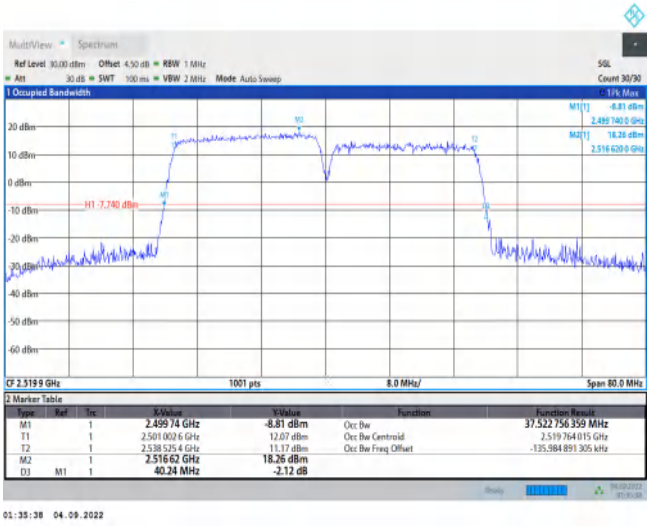
7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



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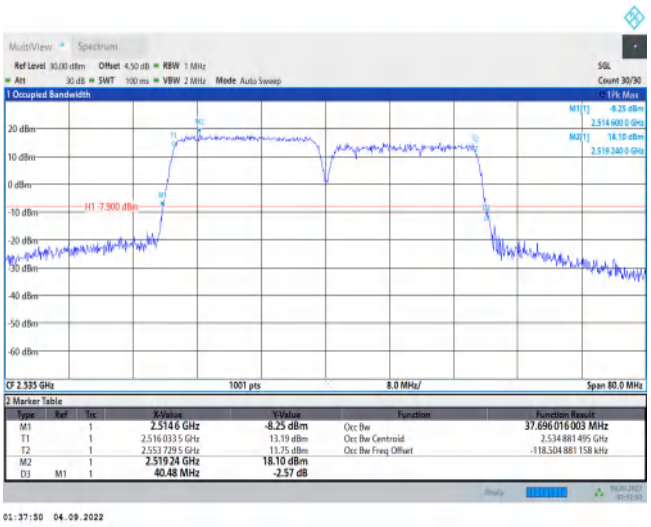

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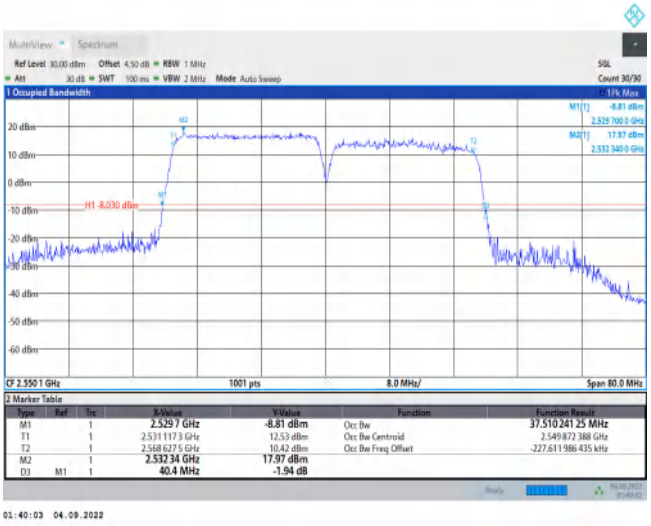
7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



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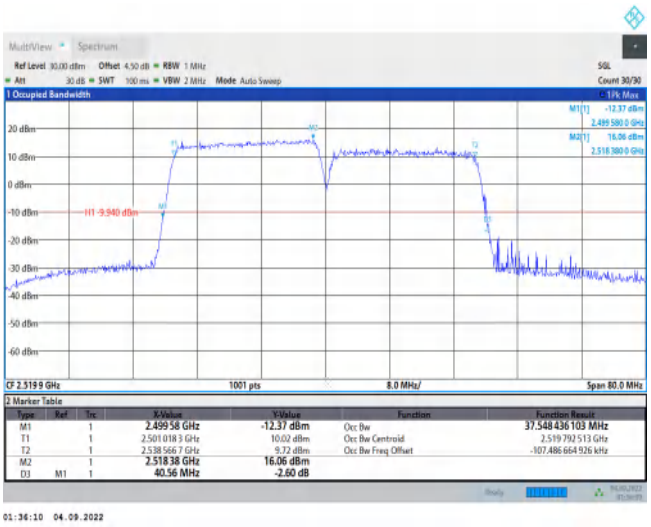

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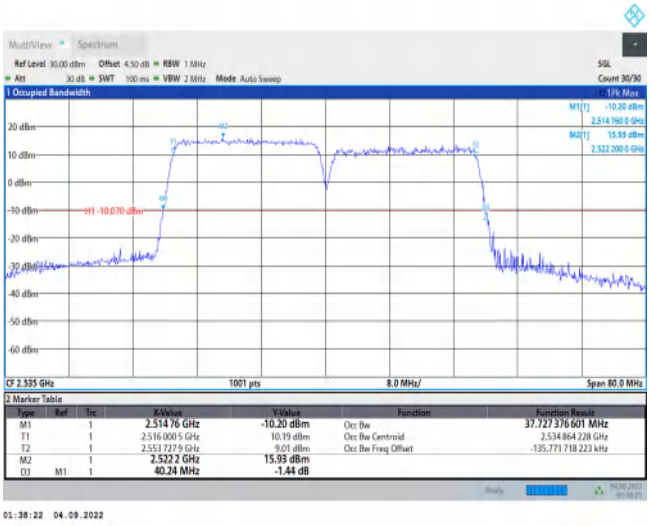

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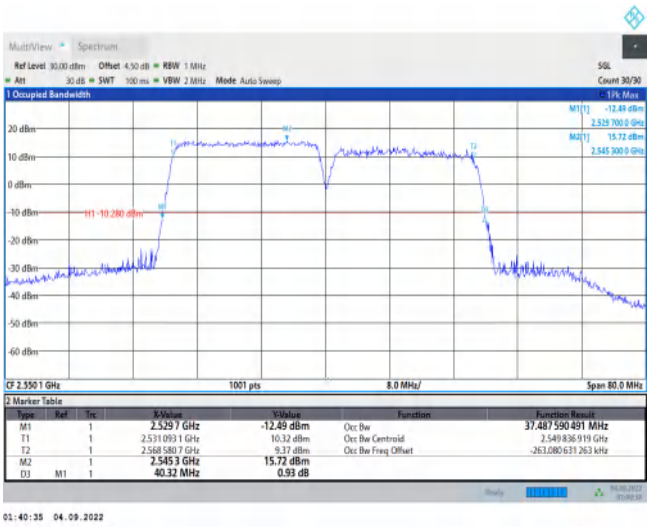

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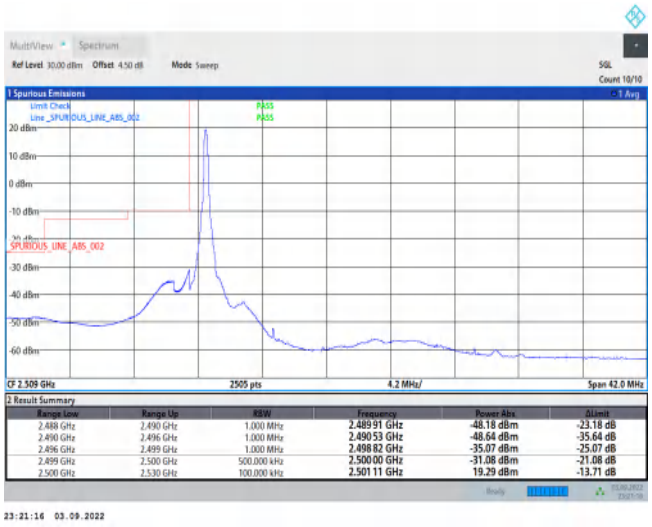
Band Edge

Test Graphs

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



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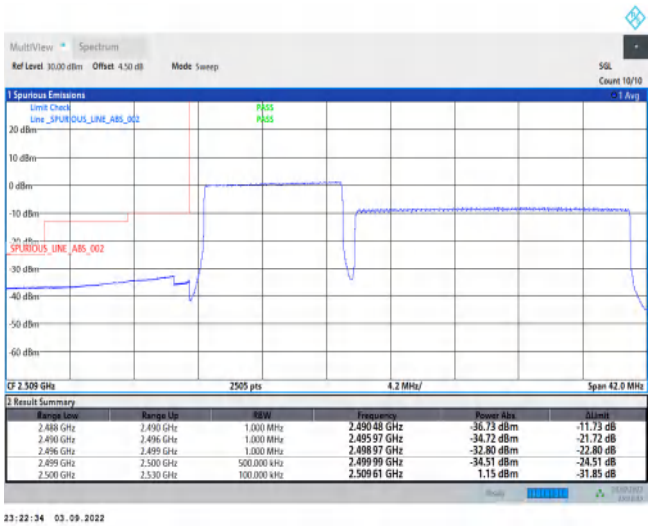

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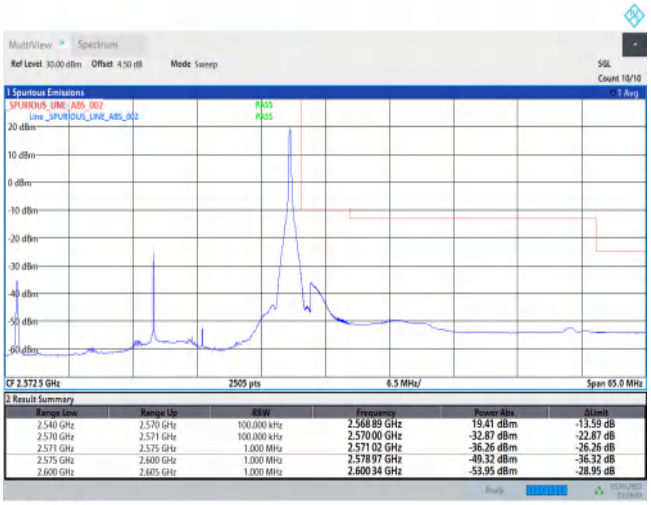

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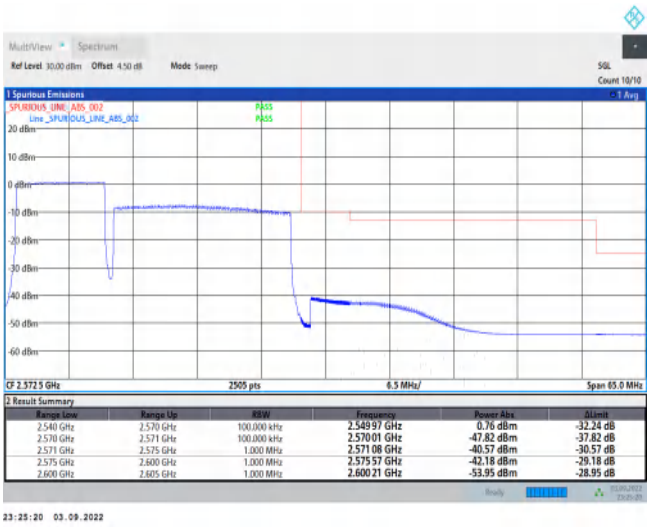

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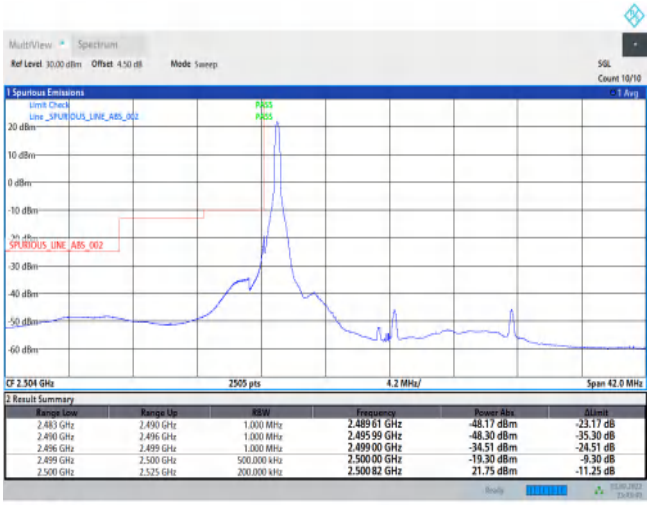
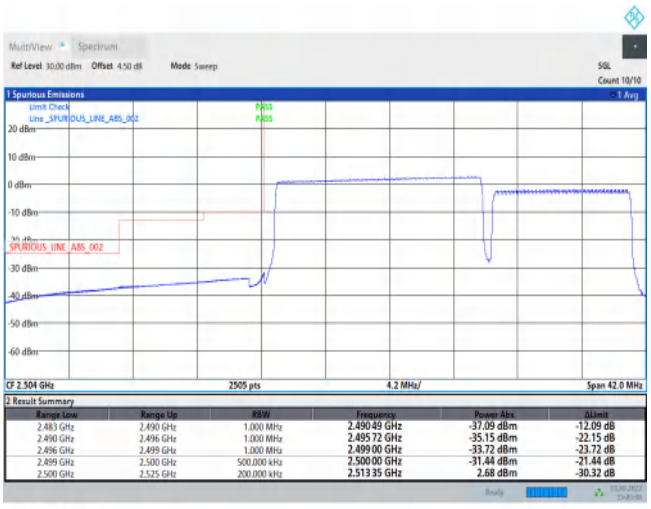
7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.483 GHz	2.490 GHz	1.000 MHz	2.489 61 GHz	-48.17 dBm	-23.17 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.495 99 GHz	-48.30 dBm	-35.30 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.499 00 GHz	-34.51 dBm	-24.51 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.500 00 GHz	-19.30 dBm	-9.30 dB
2.500 GHz	2.525 GHz	200.000 kHz	2.500 82 GHz	21.75 dBm	-11.25 dB

7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.483 GHz	2.490 GHz	1.000 MHz	2.490 49 GHz	-37.09 dBm	-12.09 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.495 72 GHz	-35.15 dBm	-22.15 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.499 00 GHz	-33.72 dBm	-23.72 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.500 00 GHz	-31.44 dBm	-21.44 dB
2.500 GHz	2.525 GHz	200.000 kHz	2.513 35 GHz	2.68 dBm	-30.32 dB

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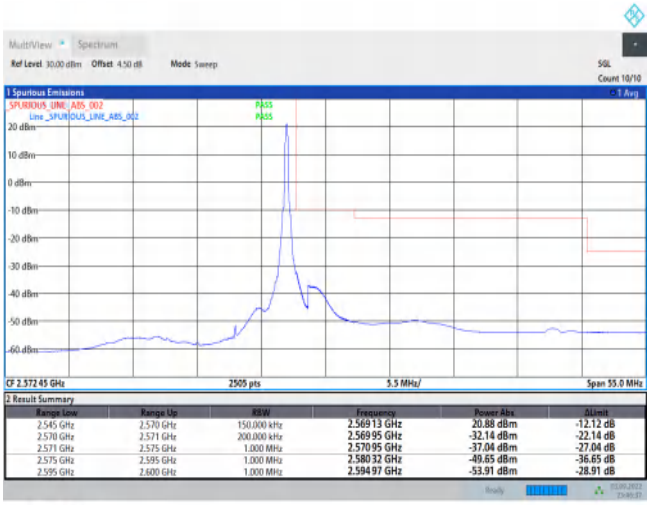

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.570 GHz	150.000 kHz	2.569 13 GHz	20.88 dBm	-12.12 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.569 95 GHz	-32.14 dBm	-22.14 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.570 95 GHz	-37.04 dBm	-27.04 dB
2.575 GHz	2.595 GHz	1.000 MHz	2.580 32 GHz	-49.65 dBm	-36.65 dB
2.595 GHz	2.600 GHz	1.000 MHz	2.594 97 GHz	-53.91 dBm	-28.91 dB

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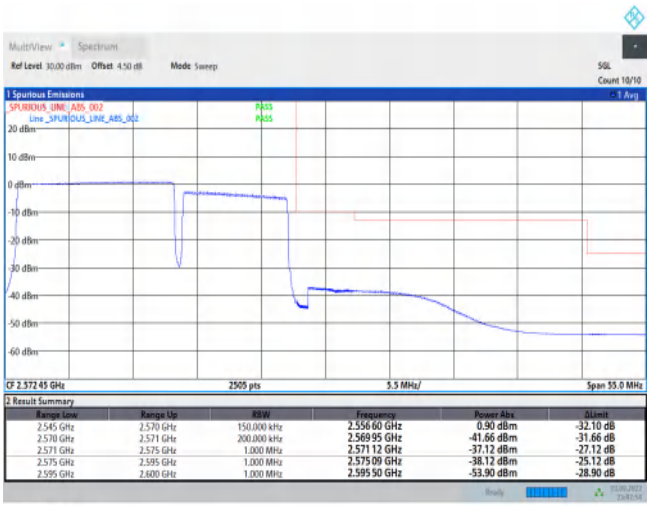

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.545 GHz	2.570 GHz	150.000 kHz	2.556 60 GHz	0.90 dBm	-32.10 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.569 95 GHz	-41.66 dBm	-31.66 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.571 12 GHz	-37.12 dBm	-27.12 dB
2.575 GHz	2.595 GHz	1.000 MHz	2.575 09 GHz	-38.12 dBm	-25.12 dB
2.595 GHz	2.600 GHz	1.000 MHz	2.595 50 GHz	-53.90 dBm	-28.90 dB

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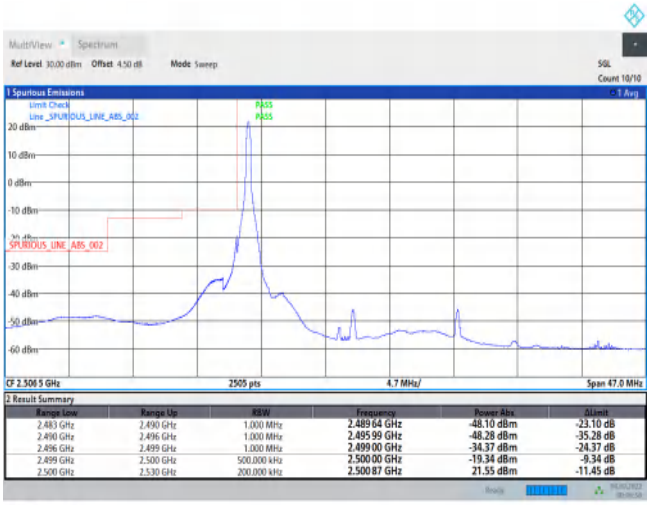
7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



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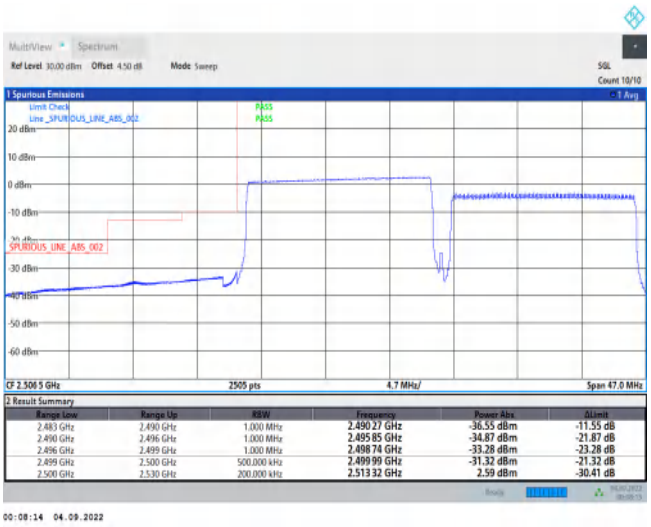

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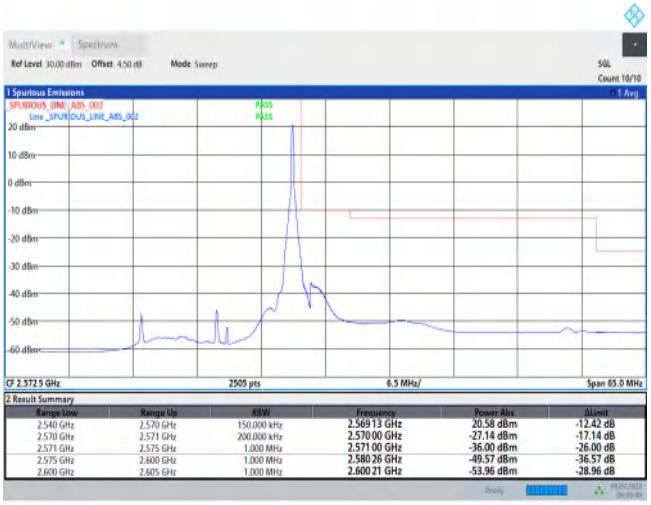
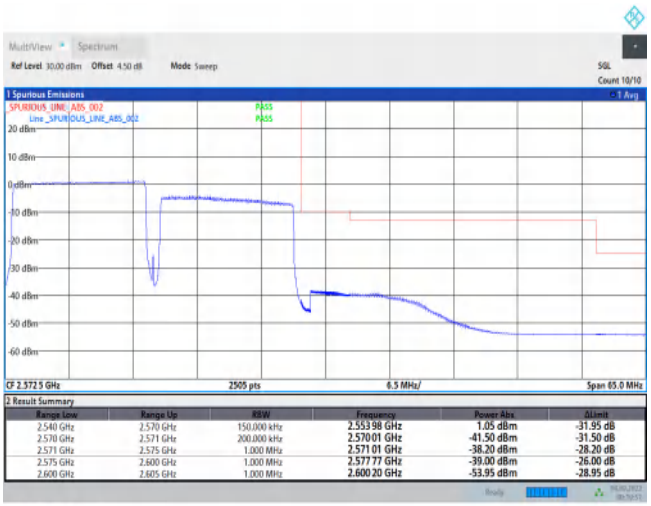
7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.540 GHz	2.570 GHz	150.000 kHz	2.569 13 GHz	20.58 dBm	-12.42 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.570 00 GHz	-27.14 dBm	-17.14 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.571 00 GHz	-36.00 dBm	-26.00 dB
2.575 GHz	2.600 GHz	1.000 MHz	2.580 26 GHz	-49.57 dBm	-36.57 dB
2.600 GHz	2.605 GHz	1.000 MHz	2.600 21 GHz	-53.96 dBm	-28.96 dB

7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.540 GHz	2.570 GHz	150.000 kHz	2.553 98 GHz	1.05 dBm	-31.95 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.570 01 GHz	-41.50 dBm	-31.50 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.571 01 GHz	-38.20 dBm	-28.20 dB
2.575 GHz	2.600 GHz	1.000 MHz	2.577 77 GHz	-39.00 dBm	-26.00 dB
2.600 GHz	2.605 GHz	1.000 MHz	2.600 20 GHz	-53.95 dBm	-28.95 dB

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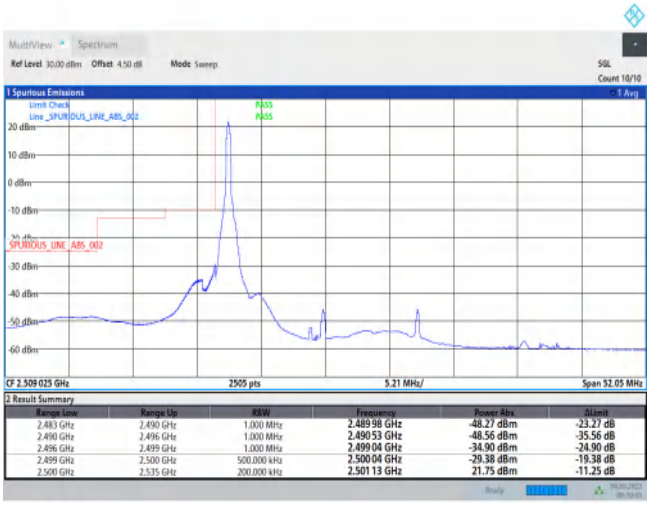
7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-1RB#0-0RB#0



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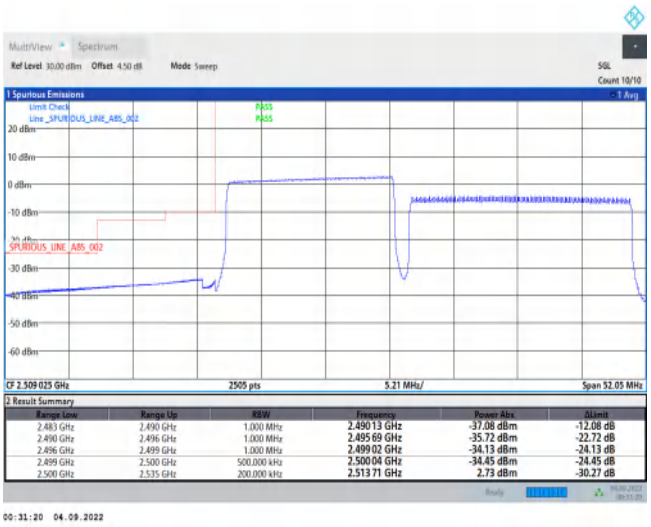

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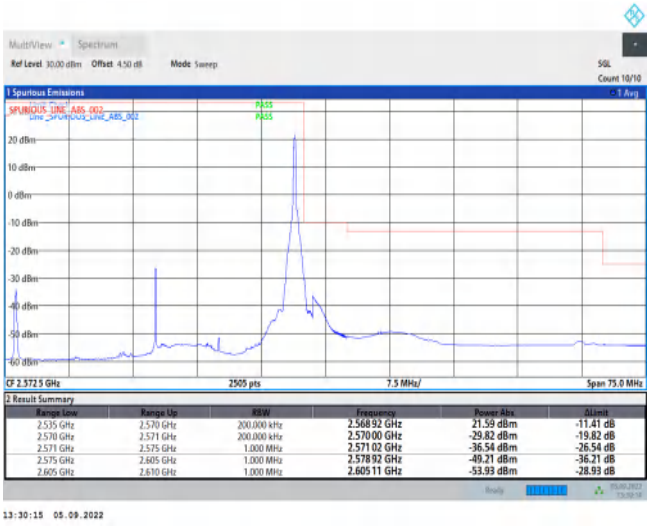
7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



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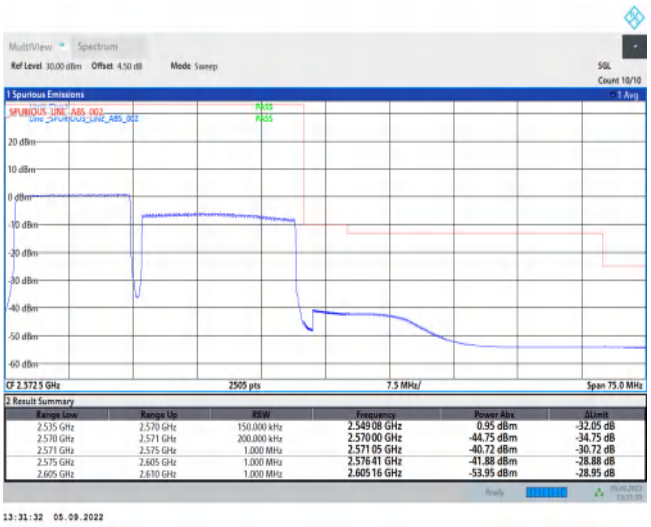

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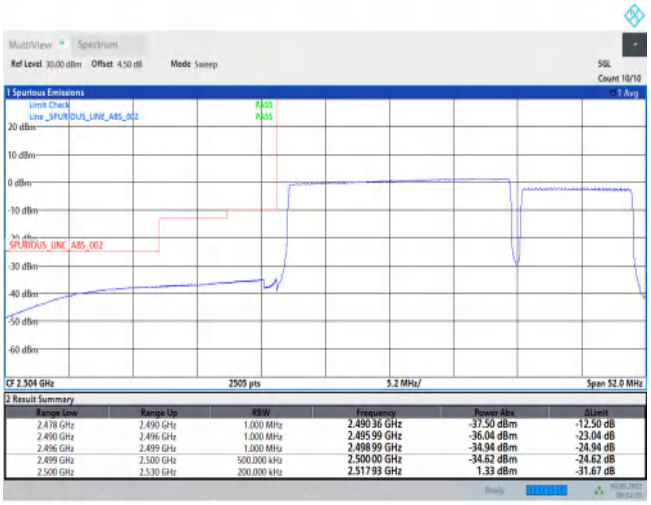
7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



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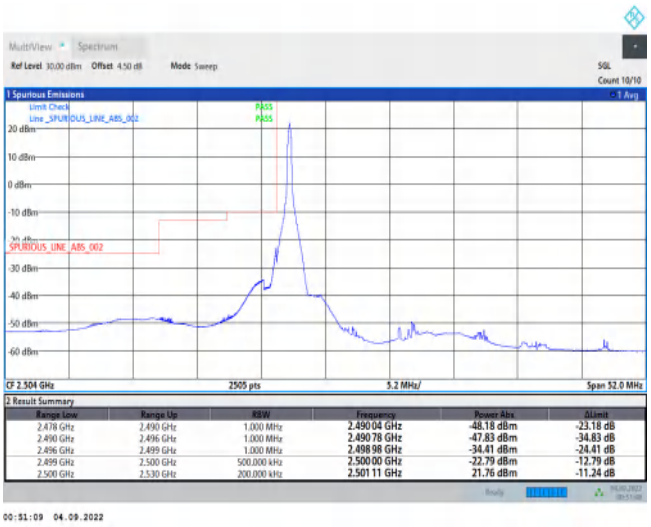

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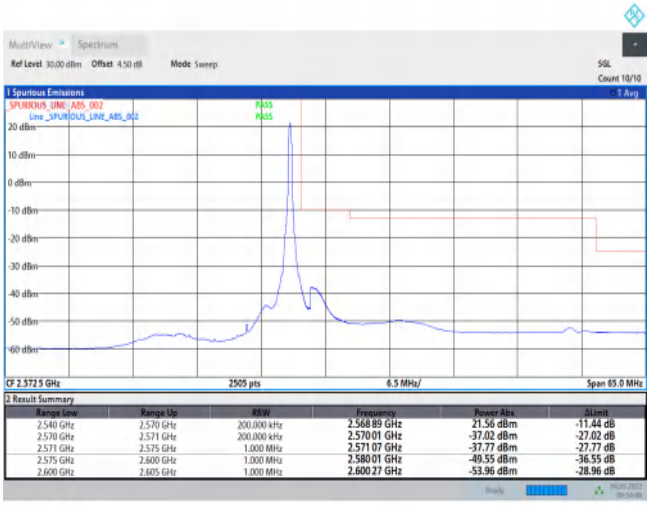
7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



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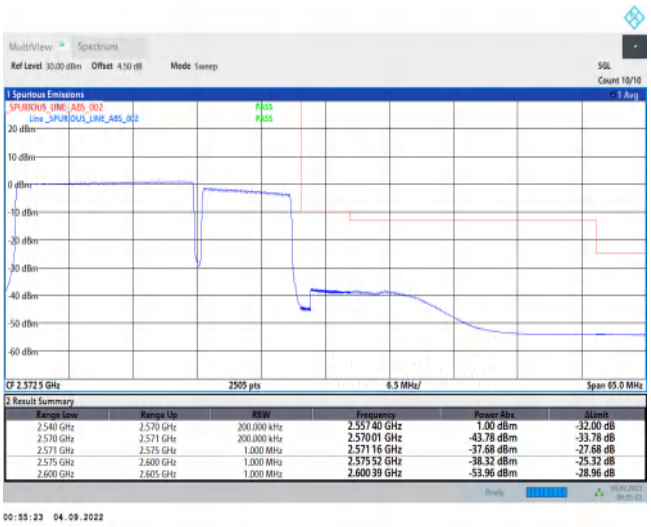

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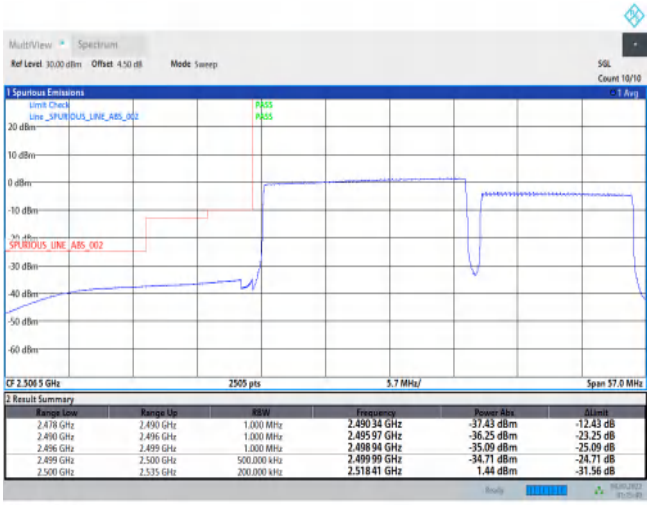
7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



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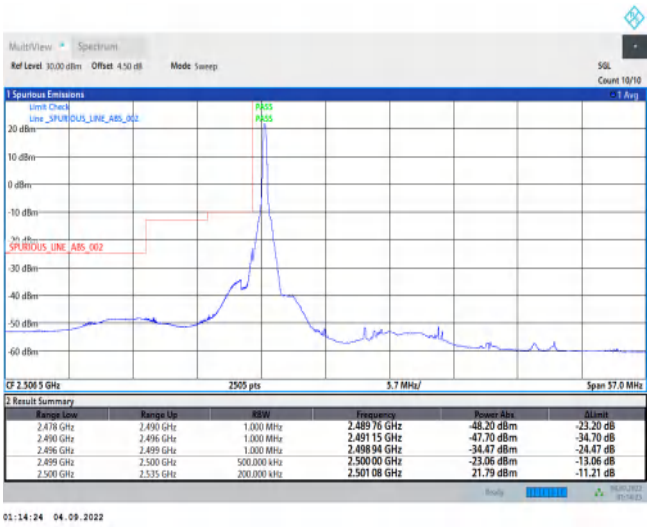

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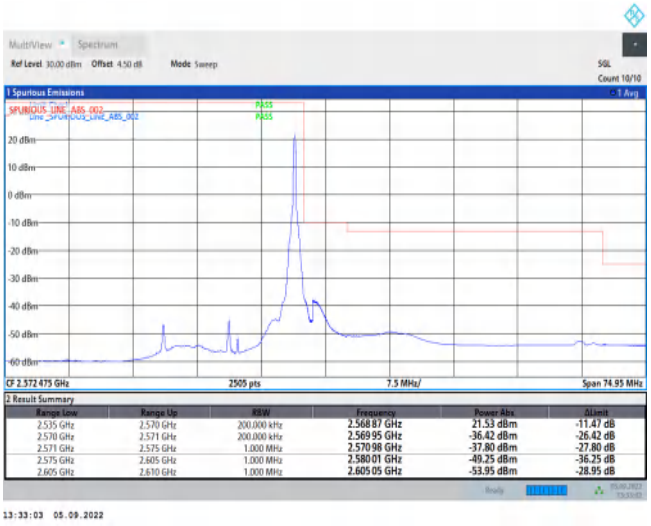
7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



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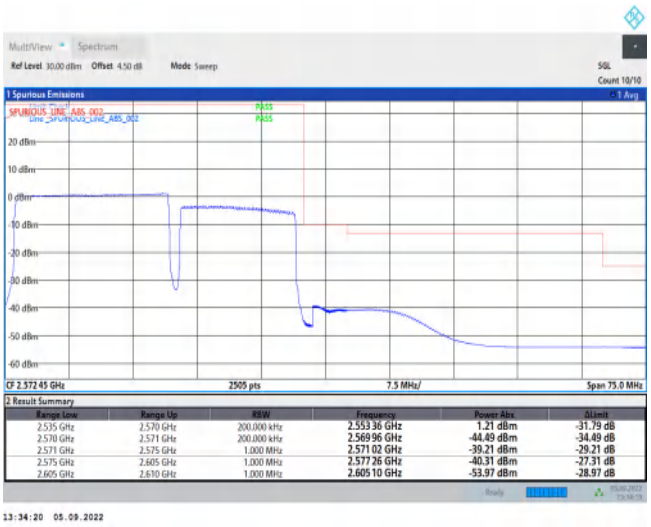

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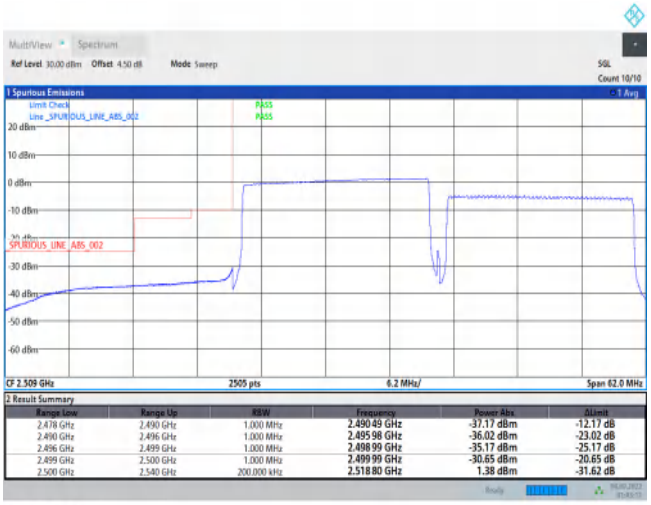
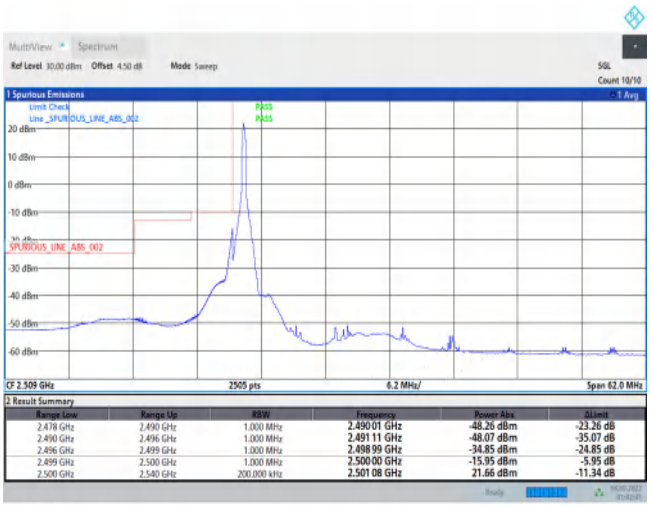
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.478 GHz	2.490 GHz	1.000 MHz	2.490 49 GHz	-37.17 dBm	-12.17 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.495 98 GHz	-36.02 dBm	-23.02 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.498 99 GHz	-35.17 dBm	-25.17 dB
2.499 GHz	2.500 GHz	1.000 MHz	2.499 99 GHz	-30.65 dBm	-20.65 dB
2.500 GHz	2.540 GHz	200.000 kHz	2.518 80 GHz	1.38 dBm	-31.62 dB

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



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.478 GHz	2.490 GHz	1.000 MHz	2.490 01 GHz	-48.26 dBm	-23.26 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.491 11 GHz	-48.07 dBm	-35.07 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.498 99 GHz	-34.85 dBm	-24.85 dB
2.499 GHz	2.500 GHz	1.000 MHz	2.500 00 GHz	-15.95 dBm	-5.95 dB
2.500 GHz	2.540 GHz	200.000 kHz	2.501 08 GHz	21.66 dBm	-11.34 dB

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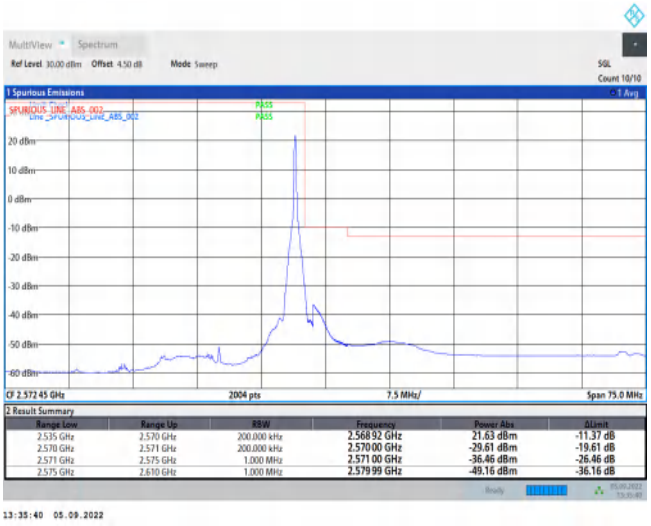
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



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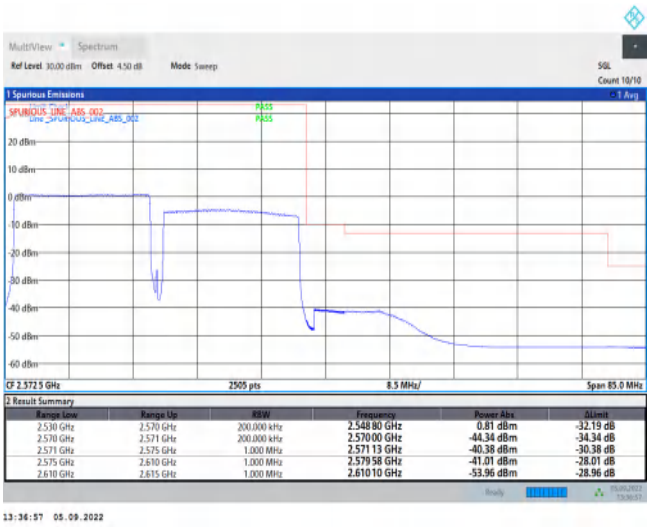

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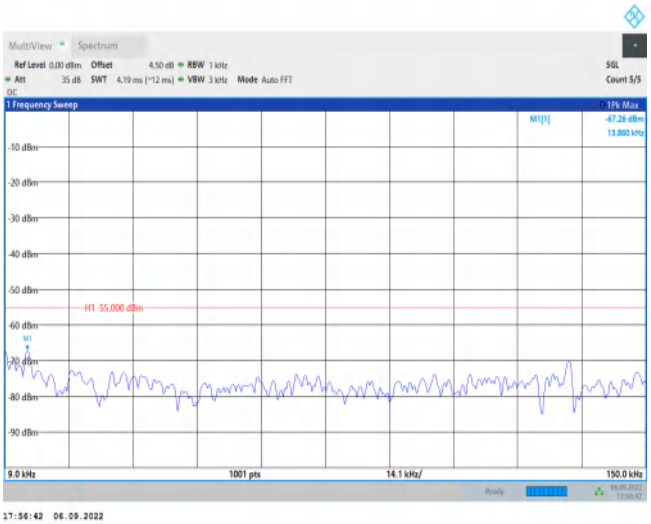
Conducted Spurious Emission

Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.009~0.15MHz



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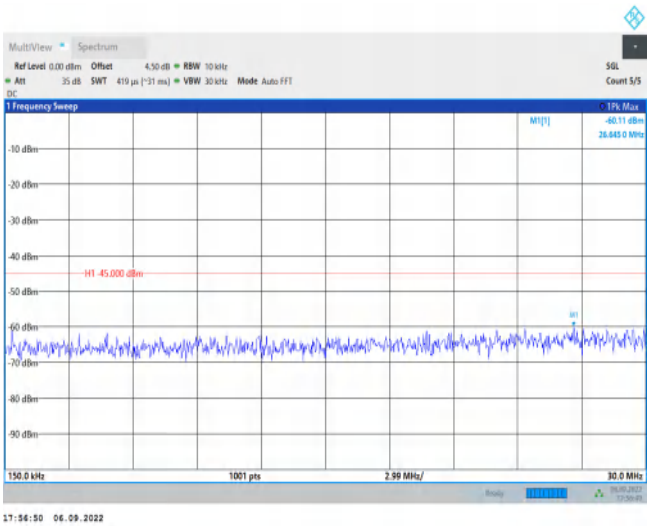

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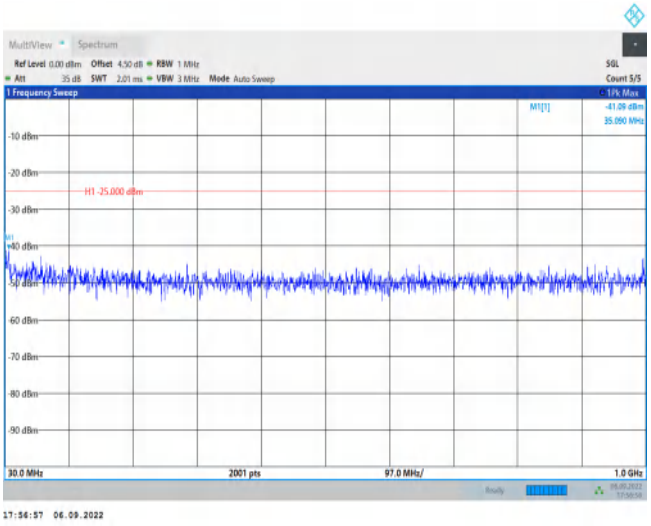
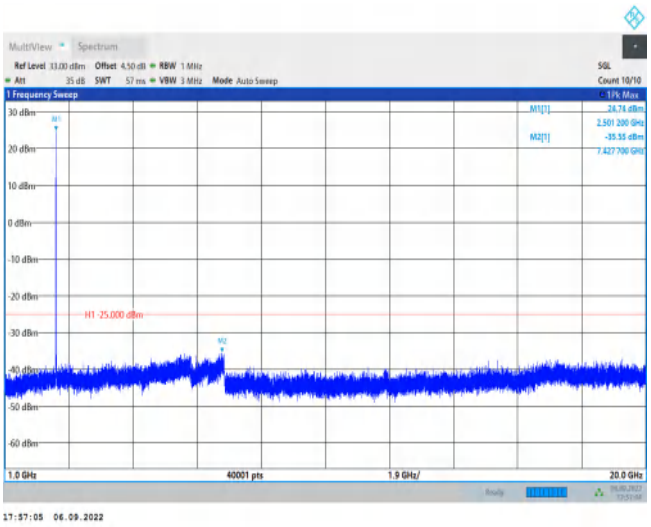
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz



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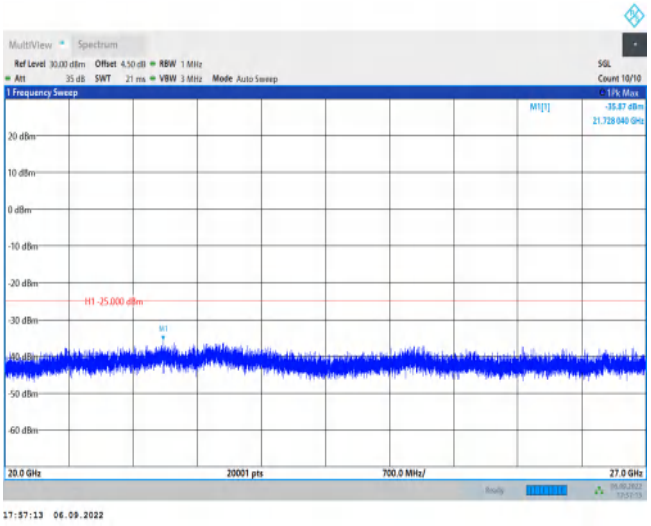
7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



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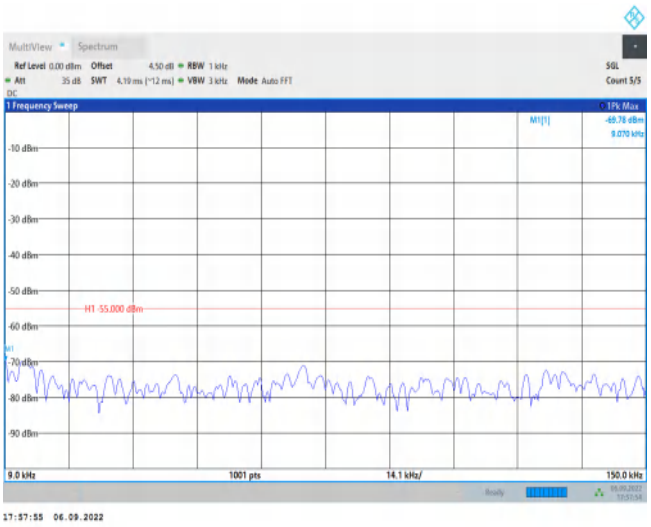

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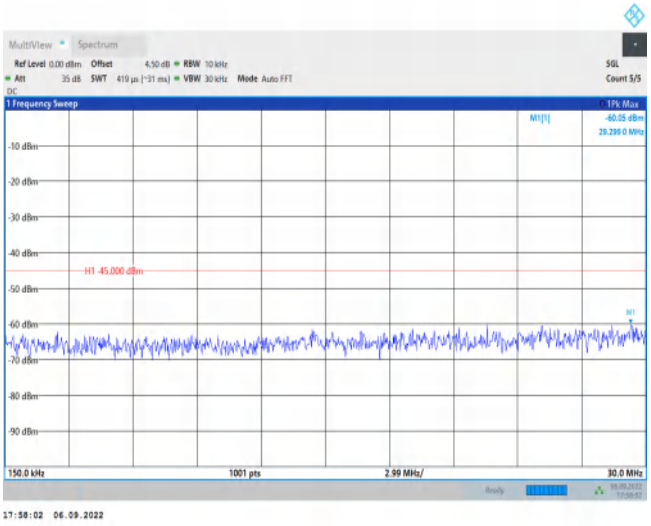
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



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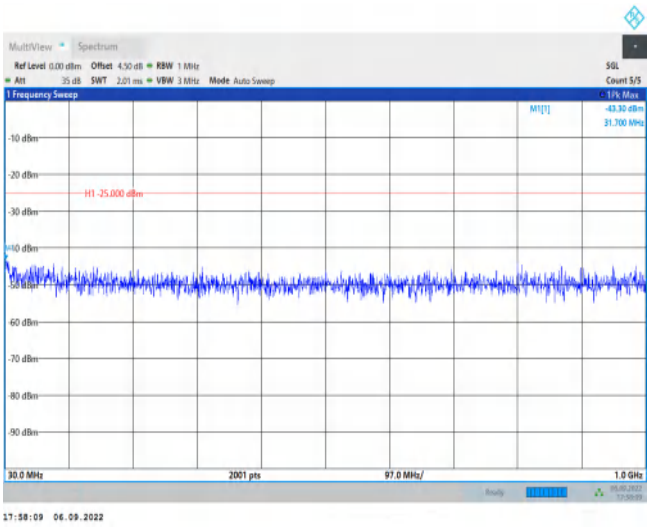

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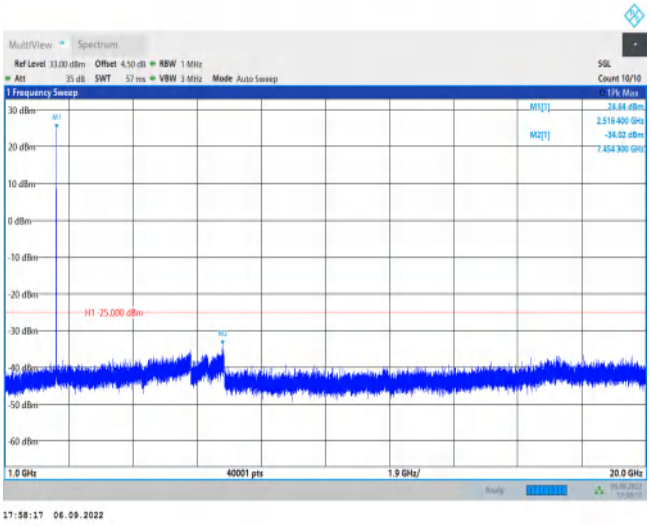
7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



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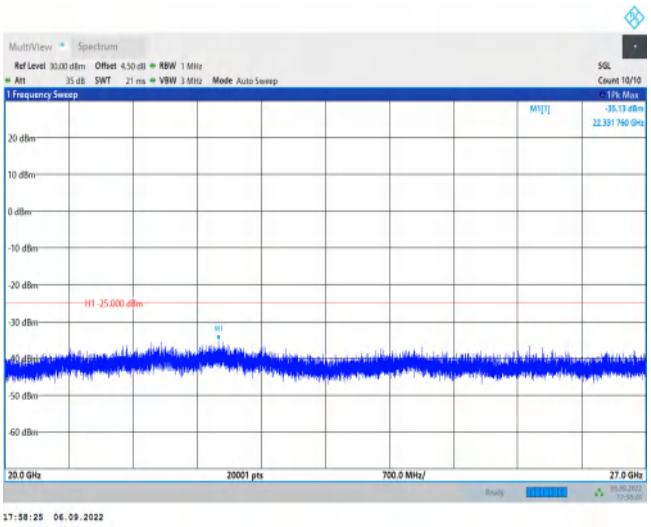

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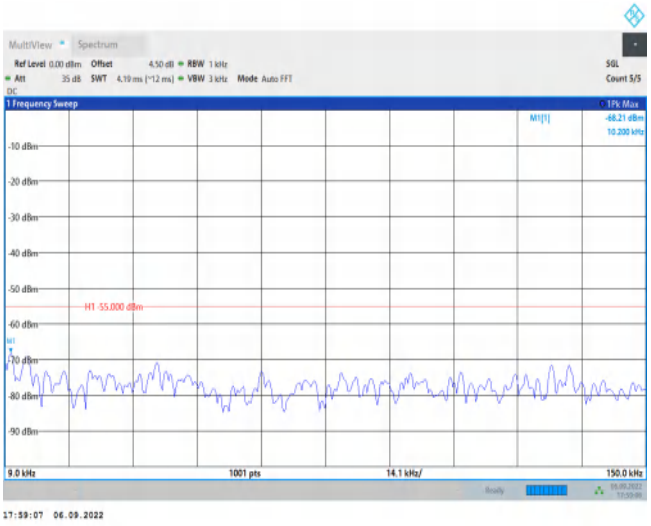
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



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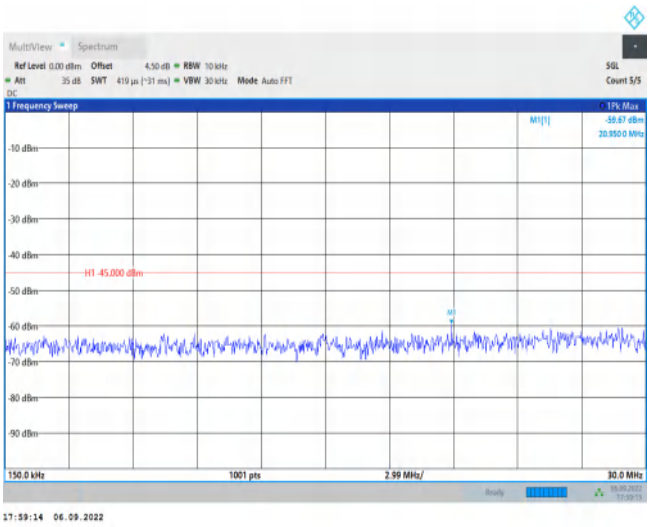

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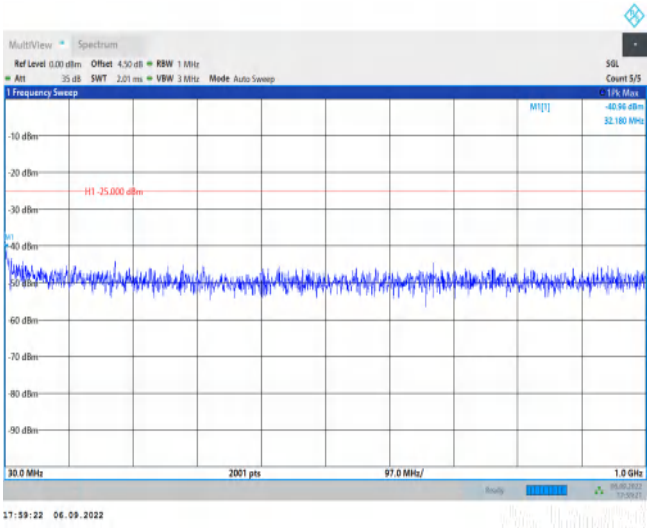
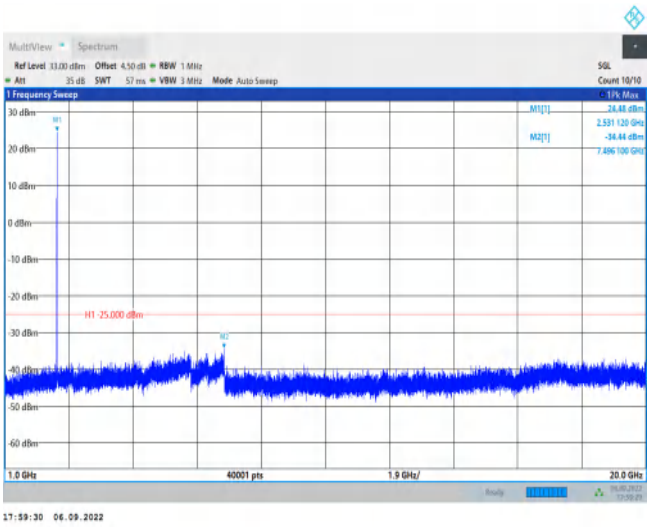
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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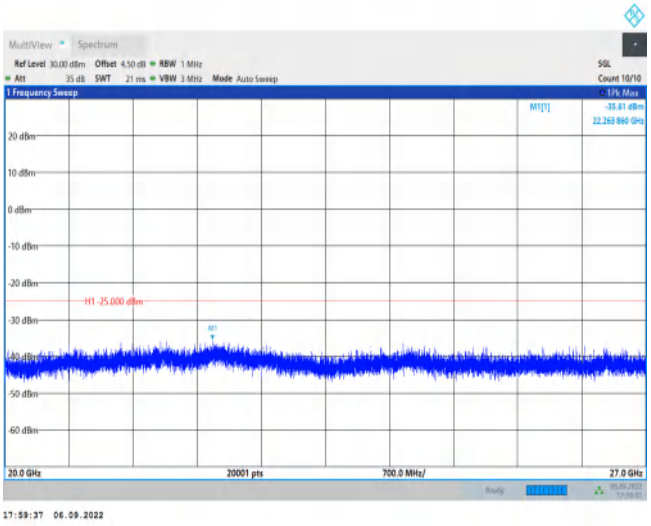
7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz


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Field Strength of Spurious Radiation

Test Band = LTE Band 7_CA_ TM1
Test Channel = Low ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	49.18	-45.63	32.88	-58.83	-25.00	33.83	163	296	Horizontal
2	7503.2700	46.66	-43.13	36.44	-55.29	-25.00	30.29	214	237	Horizontal
3	10004.3600	38.84	-39.23	38.50	-57.16	-25.00	32.16	251	350	Horizontal
4	12505.4500	33.22	-36.99	39.18	-59.85	-25.00	34.85	176	237	Horizontal
5	15006.5400	29.91	-34.65	39.21	-60.79	-25.00	35.79	155	359	Horizontal
6	17507.6300	33.84	-34.95	39.22	-57.15	-25.00	32.15	234	104	Horizontal

Test Band = LTE Band 7_CA_ TM1
Test Channel = Low ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	50.56	-45.63	32.88	-57.45	-25.00	32.45	216	342	Vertical
2	7503.2700	47.54	-43.13	36.44	-54.41	-25.00	29.41	159	237	Vertical
3	10004.3600	38.62	-39.23	38.50	-57.38	-25.00	32.38	217	357	Vertical
4	12505.4500	34.21	-36.99	39.18	-58.86	-25.00	33.86	138	148	Vertical
5	15006.5400	30.96	-34.65	39.21	-59.74	-25.00	34.74	185	179	Vertical
6	17507.6300	33.83	-34.95	39.22	-57.16	-25.00	32.16	172	342	Vertical

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Test Band = LTE Band 7_CA_ TM1
Test Channel = Mid ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.3800	48.75	-45.55	32.90	-59.16	-25.00	34.16	163	275	Horizontal
2	7548.2700	47.51	-43.04	36.42	-54.37	-25.00	29.37	157	360	Horizontal
3	10064.7600	38.99	-39.16	38.59	-56.84	-25.00	31.84	182	360	Horizontal
4	12580.9500	33.82	-37.49	39.26	-59.67	-25.00	34.67	193	360	Horizontal
5	15097.1400	31.59	-34.94	39.09	-59.52	-25.00	34.52	148	168	Horizontal
6	17613.3300	32.72	-33.34	39.62	-56.26	-25.00	31.26	179	213	Horizontal

Test Band = LTE Band 7_CA_ TM1
Test Channel = Mid ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.3800	50.61	-45.55	32.90	-57.30	-25.00	32.30	163	334	Vertical
2	7548.2700	46.32	-43.04	36.42	-55.56	-25.00	30.56	142	4	Vertical
3	10064.7600	38.55	-39.16	38.59	-57.28	-25.00	32.28	178	317	Vertical
4	12580.9500	34.73	-37.49	39.26	-58.76	-25.00	33.76	192	105	Vertical
5	15097.1400	31.13	-34.94	39.09	-59.98	-25.00	34.98	165	353	Vertical
6	17613.3300	33.07	-33.34	39.62	-55.91	-25.00	30.91	127	271	Vertical

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Test Band = LTE Band 7_CA_ TM1
Test Channel = High ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	48.82	-45.47	32.91	-58.99	-25.00	33.99	163	289	Horizontal
2	7593.8700	52.71	-42.94	36.39	-49.10	-25.00	24.10	214	4	Horizontal
3	10125.1600	38.56	-39.22	38.69	-57.23	-25.00	32.23	226	91	Horizontal
4	12656.4500	34.63	-37.08	39.38	-58.33	-25.00	33.33	158	77	Horizontal
5	15187.7400	31.25	-34.04	38.97	-59.09	-25.00	34.09	142	360	Horizontal
6	17719.0300	35.33	-34.15	40.30	-53.78	-25.00	28.78	227	358	Horizontal

Test Band = LTE Band 7_CA_ TM1
Test Channel = High ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	48.63	-45.47	32.91	-59.18	-25.00	34.18	214	151	Vertical
2	7593.75	59.62	-42.94	36.39	-42.19	-25.00	17.19	193	347	Vertical
3	10125.1600	39.00	-39.22	38.69	-56.79	-25.00	31.79	137	14	Vertical
4	12656.4500	35.70	-37.08	39.38	-57.26	-25.00	32.26	186	360	Vertical
5	15187.7400	32.06	-34.04	38.97	-58.28	-25.00	33.28	192	14	Vertical
6	17719.0300	35.35	-34.15	40.30	-53.76	-25.00	28.76	163	90	Vertical

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Test Band = LTE Band 7_CA_ TM1
Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	51.40	-45.63	32.88	-56.61	-25.00	31.61	137	305	Horizontal
2	7503.2700	60.38	-43.13	36.44	-41.57	-25.00	16.57	226	92	Horizontal
3	10004.3600	39.28	-39.23	38.50	-56.72	-25.00	31.72	215	138	Horizontal
4	12505.4500	33.47	-36.99	39.18	-59.60	-25.00	34.60	281	198	Horizontal
5	15006.5400	31.77	-34.65	39.21	-58.93	-25.00	33.93	159	359	Horizontal
6	17507.6300	33.99	-34.95	39.22	-57.00	-25.00	32.00	174	275	Horizontal

Test Band = LTE Band 7_CA_ TM1
Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	53.85	-45.63	32.88	-54.16	-25.00	29.16	159	345	Vertical
2	7503.2700	63.79	-43.13	36.44	-38.16	-25.00	13.16	162	345	Vertical
3	10004.3600	39.84	-39.23	38.50	-56.16	-25.00	31.16	174	227	Vertical
4	12505.4500	35.52	-36.99	39.18	-57.55	-25.00	32.55	151	273	Vertical
5	15006.5400	32.04	-34.65	39.21	-58.66	-25.00	33.66	129	360	Vertical
6	17507.6300	34.48	-34.95	39.22	-56.51	-25.00	31.51	229	360	Vertical

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Test Band = LTE Band 7_CA_ TM1
Test Channel = Mid ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.3800	52.52	-45.55	32.90	-55.39	-25.00	30.39	214	257	Horizontal
2	7548.2700	57.46	-43.04	36.42	-44.42	-25.00	19.42	251	334	Horizontal
3	10064.7600	39.60	-39.16	38.59	-56.23	-25.00	31.23	263	91	Horizontal
4	12580.9500	34.34	-37.49	39.26	-59.15	-25.00	34.15	159	358	Horizontal
5	15097.1400	31.99	-34.94	39.09	-59.12	-25.00	34.12	179	360	Horizontal
6	17613.3300	33.35	-33.34	39.62	-55.63	-25.00	30.63	156	353	Horizontal

Test Band = LTE Band 7_CA_ TM1
Test Channel = Mid ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5032.3800	51.87	-45.55	32.90	-56.04	-25.00	31.04	163	347	Vertical
2	7548.2700	65.24	-43.04	36.42	-36.64	-25.00	11.64	152	336	Vertical
3	10064.7600	40.17	-39.16	38.59	-55.66	-25.00	30.66	171	360	Vertical
4	12580.9500	34.65	-37.49	39.26	-58.84	-25.00	33.84	159	319	Vertical
5	15097.1400	31.95	-34.94	39.09	-59.16	-25.00	34.16	227	354	Vertical
6	17613.3300	34.68	-33.34	39.62	-54.30	-25.00	29.30	234	198	Vertical

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Test Band = LTE Band 7_CA_ TM1
Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	50.43	-45.47	32.91	-57.38	-25.00	32.38	163	270	Horizontal
2	7593.8700	52.22	-42.94	36.39	-49.59	-25.00	24.59	148	360	Horizontal
3	10125.1600	38.41	-39.22	38.69	-57.38	-25.00	32.38	159	3	Horizontal
4	12656.4500	35.63	-37.08	39.38	-57.33	-25.00	32.33	167	3	Horizontal
5	15187.7400	32.32	-34.04	38.97	-58.02	-25.00	33.02	215	181	Horizontal
6	17719.0300	35.79	-34.15	40.30	-53.32	-25.00	28.32	226	75	Horizontal

Test Band = LTE Band 7_CA_ TM1
Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5062.5800	49.09	-45.47	32.91	-58.72	-25.00	33.72	163	334	Vertical
2	7593.8700	57.09	-42.94	36.39	-44.72	-25.00	19.72	215	305	Vertical
3	10125.1600	39.67	-39.22	38.69	-56.12	-25.00	31.12	227	305	Vertical
4	12656.4500	34.71	-37.08	39.38	-58.25	-25.00	33.25	214	274	Vertical
5	15187.7400	32.41	-34.04	38.97	-57.93	-25.00	32.93	154	91	Vertical
6	17719.0300	37.07	-34.15	40.30	-52.04	-25.00	27.04	213	360	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VH	NT	18.30	0.007247	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	20.10	0.007960	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	20.00	0.007920	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-30	21.80	0.008633	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	20.60	0.008158	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	22.50	0.008911	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	22.50	0.008911	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	20.80	0.008237	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	22.30	0.008831	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	20.20	0.008000	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	21.10	0.008356	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	20.20	0.008000	PASS

---End of Attachment---

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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86-512) 62992980 sgs.china@sgs.com
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