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Appendix B.19

LTE CA_41C



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	1RB#0-0RB#0	22.53	23.73	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	50RB#0-75RB#0	21.92	23.12	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	1RB#0-0RB#0	22.60	23.8	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	50RB#0-75RB#0	21.85	23.05	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	1RB#0-0RB#0	22.63	23.83	33	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	50RB#0-75RB#0	22.48	23.68	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	1RB#0-0RB#0	22.68	23.88	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	50RB#0-75RB#0	22.12	23.32	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	1RB#0-0RB#0	22.74	23.94	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	50RB#0-75RB#0	21.83	23.03	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	1RB#0-0RB#0	22.63	23.83	33	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	50RB#0-75RB#0	22.03	23.23	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	1RB#0-0RB#0	22.35	23.55	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	50RB#0-75RB#0	21.81	23.01	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	1RB#0-0RB#0	22.23	23.43	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	50RB#0-75RB#0	21.95	23.15	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	1RB#0-0RB#0	22.34	23.54	33	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	50RB#0-75RB#0	22.04	23.24	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	1RB#0-0RB#0	22.64	23.84	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	50RB#0-100RB#0	20.06	21.26	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	1RB#0-0RB#0	22.65	23.85	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	50RB#0-100RB#0	20.42	21.62	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	1RB#0-0RB#0	22.66	23.86	33	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	50RB#0-100RB#0	20.46	21.66	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	1RB#0-0RB#0	22.05	23.25	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	50RB#0-100RB#0	19.52	20.72	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	1RB#0-0RB#0	22.13	23.33	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	50RB#0-100RB#0	19.18	20.38	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	41346-41490	1RB#0-0RB#0	22.13	23.33	33	PASS
41-41	10MHz-20MHz	16QAM-16QAM	41346-41490	50RB#0-100RB#0	19.40	20.6	33	PASS



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41-41	10MHz-20MHz	64QAM-64QAM	39705-39849	1RB#0-0RB#0	20.55	21.75	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	39705-39849	50RB#0-100RB#0	19.30	20.5	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	1RB#0-0RB#0	20.64	21.84	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	50RB#0-100RB#0	19.02	20.22	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	41346-41490	1RB#0-0RB#0	20.83	22.03	33	PASS
41-41	10MHz-20MHz	64QAM-64QAM	41346-41490	50RB#0-100RB#0	19.34	20.54	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	39725-39845	1RB#0-0RB#0	22.65	23.85	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	39725-39845	75RB#0-50RB#0	21.70	22.9	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	1RB#0-0RB#0	22.65	23.85	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	75RB#0-50RB#0	21.60	22.8	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	41417-41537	1RB#0-0RB#0	22.69	23.89	33	PASS
41-41	15MHz-10MHz	QPSK-QPSK	41417-41537	75RB#0-50RB#0	21.89	23.09	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	39725-39845	1RB#0-0RB#0	22.68	23.88	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	39725-39845	75RB#0-50RB#0	21.75	22.95	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	1RB#0-0RB#0	23.04	24.24	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	75RB#0-50RB#0	21.93	23.13	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	41417-41537	1RB#0-0RB#0	22.75	23.95	33	PASS
41-41	15MHz-10MHz	16QAM-16QAM	41417-41537	75RB#0-50RB#0	22.35	23.55	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	39725-39845	1RB#0-0RB#0	22.47	23.67	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	39725-39845	75RB#0-50RB#0	21.69	22.89	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	1RB#0-0RB#0	22.54	23.74	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	75RB#0-50RB#0	21.96	23.16	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	41417-41537	1RB#0-0RB#0	22.50	23.7	33	PASS
41-41	15MHz-10MHz	64QAM-64QAM	41417-41537	75RB#0-50RB#0	21.86	23.06	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	39725-39875	1RB#0-0RB#0	22.87	24.07	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	39725-39875	75RB#0-75RB#0	19.88	21.08	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	1RB#0-0RB#0	22.98	24.18	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	75RB#0-75RB#0	19.91	21.11	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	41365-41515	1RB#0-0RB#0	23.02	24.22	33	PASS
41-41	15MHz-15MHz	QPSK-QPSK	41365-41515	75RB#0-75RB#0	20.51	21.71	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	1RB#0-0RB#0	22.07	23.27	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	75RB#0-75RB#0	19.06	20.26	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	1RB#0-0RB#0	22.07	23.27	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	75RB#0-75RB#0	18.84	20.04	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	1RB#0-0RB#0	22.16	23.36	33	PASS
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	75RB#0-75RB#0	18.97	20.17	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	1RB#0-0RB#0	20.49	21.69	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	75RB#0-75RB#0	18.98	20.18	33	PASS



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41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	1RB#0-0RB#0	20.55	21.75	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	75RB#0-75RB#0	18.79	19.99	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	1RB#0-0RB#0	20.53	21.73	33	PASS
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	75RB#0-75RB#0	18.95	20.15	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	1RB#0-0RB#0	23.21	24.41	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	75RB#0-100RB#0	20.66	21.86	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	1RB#0-0RB#0	23.29	24.49	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	75RB#0-100RB#0	20.23	21.43	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	1RB#0-0RB#0	23.25	24.45	33	PASS
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	75RB#0-100RB#0	20.36	21.56	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	1RB#0-0RB#0	22.38	23.58	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	75RB#0-100RB#0	19.43	20.63	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	1RB#0-0RB#0	22.85	24.05	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	75RB#0-100RB#0	19.29	20.49	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	1RB#0-0RB#0	22.48	23.68	33	PASS
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	75RB#0-100RB#0	19.26	20.46	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	1RB#0-0RB#0	20.80	22	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	75RB#0-100RB#0	19.30	20.5	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	1RB#0-0RB#0	20.97	22.17	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	75RB#0-100RB#0	19.24	20.44	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	1RB#0-0RB#0	20.82	22.02	33	PASS
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	75RB#0-100RB#0	19.32	20.52	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	39750-39867	1RB#0-0RB#0	22.60	23.8	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	39750-39867	100RB#0-25RB#0	19.65	20.85	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	40595-40712	1RB#0-0RB#0	22.71	23.91	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	40595-40712	100RB#0-25RB#0	19.68	20.88	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	41440-41557	1RB#0-0RB#0	22.72	23.92	33	PASS
41-41	20MHz-5MHz	QPSK-QPSK	41440-41557	100RB#0-25RB#0	19.72	20.92	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	39750-39867	1RB#0-0RB#0	21.83	23.03	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	39750-39867	100RB#0-25RB#0	18.65	19.85	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	1RB#0-0RB#0	21.76	22.96	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	100RB#0-25RB#0	18.62	19.82	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	1RB#0-0RB#0	21.82	23.02	33	PASS
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	100RB#0-25RB#0	18.89	20.09	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	1RB#0-0RB#0	20.31	21.51	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	100RB#0-25RB#0	18.64	19.84	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	1RB#0-0RB#0	20.21	21.41	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	100RB#0-25RB#0	18.58	19.78	33	PASS



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41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	1RB#0-0RB#0	20.36	21.56	33	PASS
41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	100RB#0-25RB#0	19.52	20.72	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	1RB#0-0RB#0	23.22	24.42	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	100RB#0-75RB#0	19.86	21.06	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	1RB#0-0RB#0	23.31	24.51	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	100RB#0-75RB#0	20.18	21.38	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	1RB#0-0RB#0	20.16	21.36	33	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	100RB#0-75RB#0	19.92	21.12	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	1RB#0-0RB#0	22.30	23.5	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	100RB#0-75RB#0	18.94	20.14	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	1RB#0-0RB#0	22.36	23.56	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	100RB#0-75RB#0	18.85	20.05	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	1RB#0-0RB#0	22.32	23.52	33	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	100RB#0-75RB#0	19.12	20.32	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	1RB#0-0RB#0	20.85	22.05	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	100RB#0-75RB#0	18.98	20.18	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	1RB#0-0RB#0	20.93	22.13	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	100RB#0-75RB#0	18.87	20.07	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	1RB#0-0RB#0	20.83	22.03	33	PASS
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	100RB#0-75RB#0	19.25	20.45	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	1RB#0-0RB#0	22.52	23.72	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	25RB#0-100RB#0	20.02	21.22	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	1RB#0-0RB#0	22.58	23.78	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	25RB#0-100RB#0	20.17	21.37	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	1RB#0-0RB#0	22.56	23.76	33	PASS
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	25RB#0-100RB#0	20.38	21.58	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	1RB#0-0RB#0	21.63	22.83	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	25RB#0-100RB#0	19.43	20.63	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	1RB#0-0RB#0	21.66	22.86	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	25RB#0-100RB#0	19.30	20.5	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	1RB#0-0RB#0	21.81	23.01	33	PASS
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	25RB#0-100RB#0	19.46	20.66	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	1RB#0-0RB#0	20.13	21.33	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	25RB#0-100RB#0	19.17	20.37	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	1RB#0-0RB#0	20.09	21.29	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	25RB#0-100RB#0	19.22	20.42	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	1RB#0-0RB#0	20.12	21.32	33	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	25RB#0-100RB#0	19.33	20.53	33	PASS



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41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	1RB#0-0RB#0	23.78	24.98	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	100RB#0-100RB#0	20.13	21.33	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	1RB#0-0RB#0	24.04	25.24	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	20.11	21.31	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	1RB#0-0RB#0	23.89	25.09	33	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	100RB#0-100RB#0	20.33	21.53	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	1RB#0-0RB#0	22.95	24.15	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	100RB#0-100RB#0	19.40	20.6	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	1RB#0-0RB#0	23.06	24.26	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	19.15	20.35	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	1RB#0-0RB#0	22.88	24.08	33	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	100RB#0-100RB#0	19.27	20.47	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	1RB#0-0RB#0	21.46	22.66	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	100RB#0-100RB#0	19.27	20.47	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	1RB#0-0RB#0	21.54	22.74	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	19.27	20.47	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	1RB#0-0RB#0	21.76	22.96	33	PASS
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	100RB#0-100RB#0	19.24	20.44	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	100RB#0-100RB#0	9.62	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	9.83	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	100RB#0-100RB#0	9.65	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	100RB#0-100RB#0	9.83	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	9.80	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	100RB#0-100RB#0	9.83	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	100RB#0-100RB#0	9.80	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	9.77	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	100RB#0-100RB#0	10.03	13	PASS

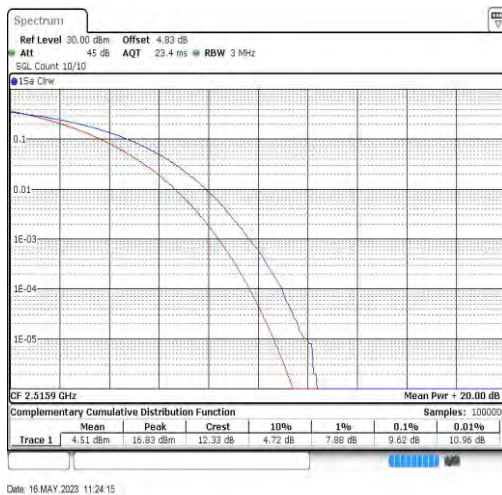


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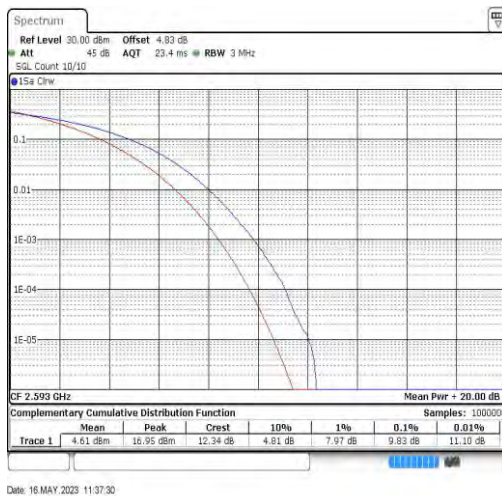
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Test Graphs

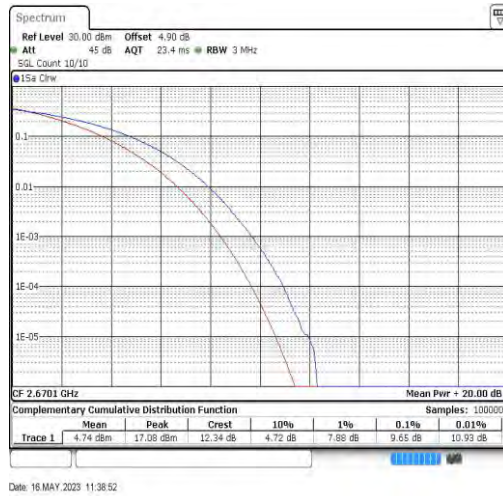


41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0



41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-100RB#0-100RB#0



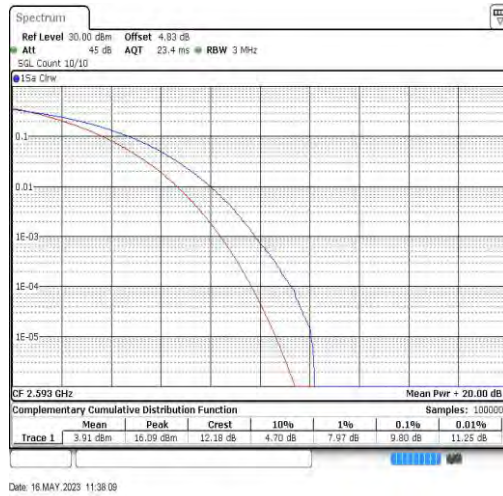


41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-100RB#0-100RB#0

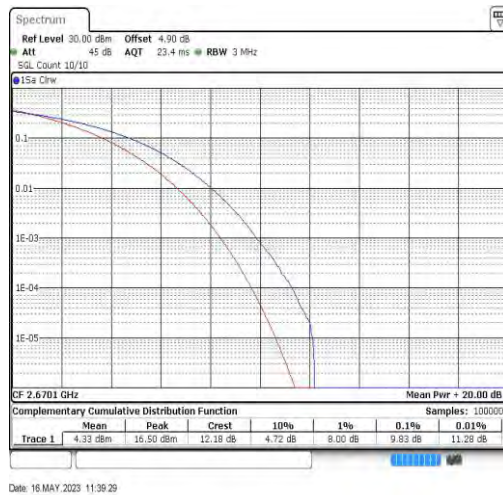


41-41-20MHz-20MHz-16QAM-16QAM-39750-39948-100RB#0-100RB#0



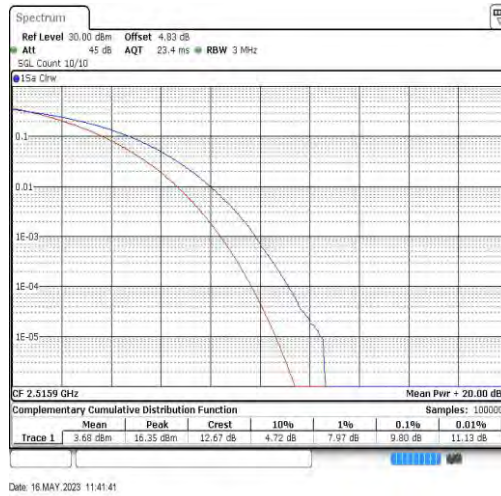


41-41-20MHz-20MHz-16QAM-16QAM-40521-40719-100RB#0-100RB#0

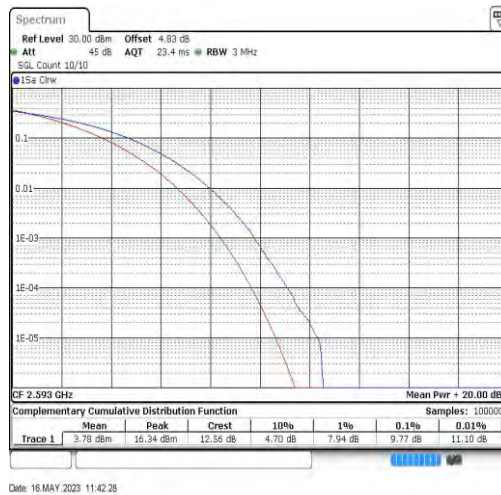


41-41-20MHz-20MHz-16QAM-16QAM-41292-41490-100RB#0-100RB#0



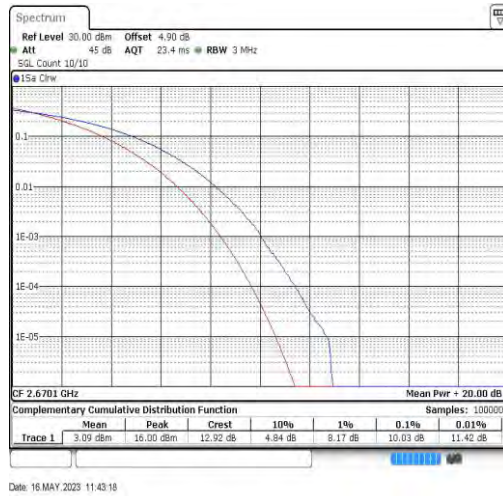


41-41-20MHz-20MHz-64QAM-64QAM-39750-39948-100RB#0-100RB#0



41-41-20MHz-20MHz-64QAM-64QAM-40521-40719-100RB#0-100RB#0





41-41-20MHz-20MHz-64QAM-64QAM-41292-41490-100RB#0-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	PASS

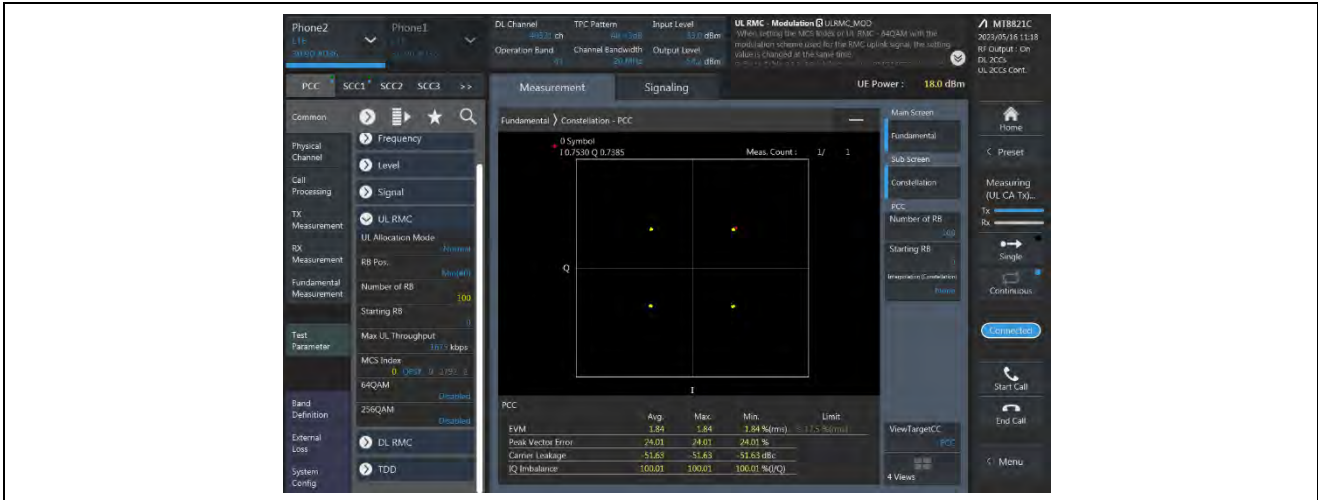


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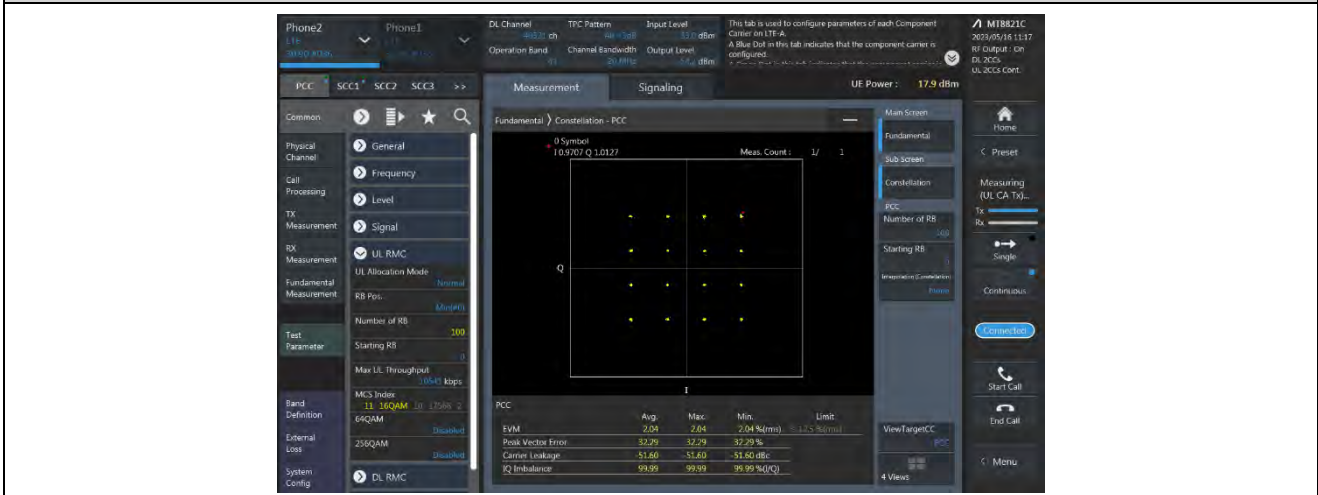
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Test Graphs



41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-100RB#0-100RB#0



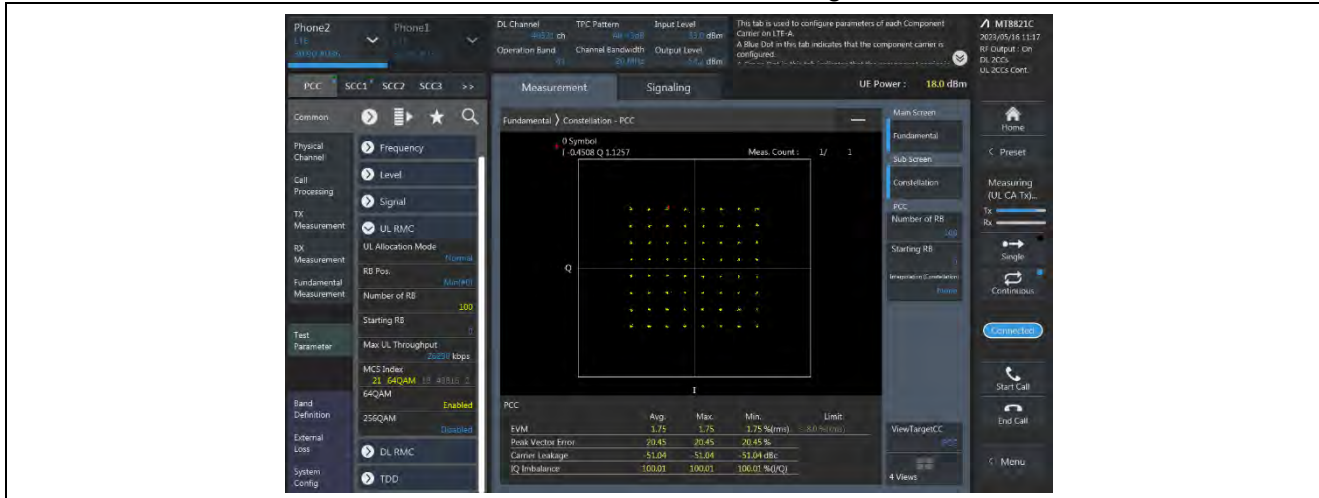
41-41-20MHz-20MHz-16QAM-16QAM-40521-40719-100RB#0-100RB#0



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41-41-20MHz-20MHz-64QAM-64QAM-40521-40719-100RB#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
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	50RB#0-100RB#0	27.872	30.48	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	50RB#0-100RB#0	27.812	30.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	50RB#0-100RB#0	27.812	30.06	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	50RB#0-100RB#0	27.692	29.70	PASS
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	50RB#0-100RB#0	27.692	29.76	PASS
41-41	10MHz-20MHz	16QAM-16QAM	41346-41490	50RB#0-100RB#0	27.752	29.76	PASS
41-41	10MHz-20MHz	64QAM-64QAM	39705-39849	50RB#0-100RB#0	27.632	31.08	PASS
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	50RB#0-100RB#0	27.692	31.14	PASS
41-41	10MHz-20MHz	64QAM-64QAM	41346-41490	50RB#0-100RB#0	27.692	30.96	PASS
41-41	15MHz-10MHz	QPSK-QPSK	39725-39845	75RB#0-50RB#0	23.227	24.75	PASS
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	75RB#0-50RB#0	23.227	24.80	PASS
41-41	15MHz-10MHz	QPSK-QPSK	41417-41537	75RB#0-50RB#0	23.227	24.85	PASS
41-41	15MHz-10MHz	16QAM-16QAM	39725-39845	75RB#0-50RB#0	23.177	24.75	PASS
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	75RB#0-50RB#0	23.227	24.85	PASS
41-41	15MHz-10MHz	16QAM-16QAM	41417-41537	75RB#0-50RB#0	23.177	24.90	PASS
41-41	15MHz-10MHz	64QAM-64QAM	39725-39845	75RB#0-50RB#0	23.127	25.25	PASS
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	75RB#0-50RB#0	23.127	25.25	PASS
41-41	15MHz-10MHz	64QAM-64QAM	41417-41537	75RB#0-50RB#0	23.127	25.20	PASS
41-41	15MHz-15MHz	QPSK-QPSK	39725-39875	75RB#0-75RB#0	28.412	31.50	PASS
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	75RB#0-75RB#0	28.412	31.44	PASS
41-41	15MHz-15MHz	QPSK-QPSK	41365-41515	75RB#0-75RB#0	28.352	31.32	PASS
41-41	15MHz-15MHz	16QAM-16QAM	39725-39875	75RB#0-75RB#0	28.352	30.36	PASS
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	75RB#0-75RB#0	28.292	31.02	PASS
41-41	15MHz-15MHz	16QAM-16QAM	41365-41515	75RB#0-75RB#0	28.352	30.90	PASS
41-41	15MHz-15MHz	64QAM-64QAM	39725-39875	75RB#0-75RB#0	28.232	30.54	PASS
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	75RB#0-75RB#0	28.172	30.66	PASS
41-41	15MHz-15MHz	64QAM-64QAM	41365-41515	75RB#0-75RB#0	28.232	30.48	PASS
41-41	15MHz-20MHz	QPSK-QPSK	39728-39899	75RB#0-100RB#0	32.657	35.56	PASS
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	75RB#0-100RB#0	32.587	35.42	PASS
41-41	15MHz-20MHz	QPSK-QPSK	41319-41490	75RB#0-100RB#0	32.587	34.65	PASS



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41-41	15MHz-20MHz	16QAM-16QAM	39728-39899	75RB#0-100RB#0	32.657	35.21	PASS
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	75RB#0-100RB#0	32.517	35.14	PASS
41-41	15MHz-20MHz	16QAM-16QAM	41319-41490	75RB#0-100RB#0	32.587	35.07	PASS
41-41	15MHz-20MHz	64QAM-64QAM	39728-39899	75RB#0-100RB#0	32.517	35.70	PASS
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	75RB#0-100RB#0	32.448	35.56	PASS
41-41	15MHz-20MHz	64QAM-64QAM	41319-41490	75RB#0-100RB#0	32.517	35.63	PASS
41-41	20MHz-5MHz	QPSK-QPSK	39750-39867	100RB#0-25RB#0	22.977	24.50	PASS
41-41	20MHz-5MHz	QPSK-QPSK	40595-40712	100RB#0-25RB#0	22.927	24.35	PASS
41-41	20MHz-5MHz	QPSK-QPSK	41440-41557	100RB#0-25RB#0	22.927	24.40	PASS
41-41	20MHz-5MHz	16QAM-16QAM	39750-39867	100RB#0-25RB#0	22.977	24.45	PASS
41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	100RB#0-25RB#0	22.977	24.45	PASS
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	100RB#0-25RB#0	22.927	24.45	PASS
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	100RB#0-25RB#0	22.927	24.80	PASS
41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	100RB#0-25RB#0	23.077	24.75	PASS
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	100RB#0-25RB#0	22.927	24.55	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	100RB#0-75RB#0	32.657	34.51	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	100RB#0-75RB#0	32.587	34.44	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	100RB#0-75RB#0	32.657	34.44	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	100RB#0-75RB#0	32.587	34.79	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	100RB#0-75RB#0	32.587	35.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	100RB#0-75RB#0	32.587	35.00	PASS
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	100RB#0-75RB#0	32.448	34.86	PASS
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	100RB#0-75RB#0	32.448	34.79	PASS
41-41	20MHz-15MHz	64QAM-64QAM	41341-41512	100RB#0-75RB#0	32.448	34.72	PASS
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	25RB#0-100RB#0	23.027	25.40	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	25RB#0-100RB#0	22.977	25.00	PASS
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	25RB#0-100RB#0	23.027	25.05	PASS
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	25RB#0-100RB#0	22.877	24.55	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	25RB#0-100RB#0	22.877	24.70	PASS
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	25RB#0-100RB#0	22.927	24.50	PASS
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	25RB#0-100RB#0	22.877	25.30	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	25RB#0-100RB#0	22.877	25.15	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	25RB#0-100RB#0	22.927	25.15	PASS
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	50RB#0-75RB#0	23.227	25.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	50RB#0-75RB#0	23.227	25.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	50RB#0-75RB#0	23.227	25.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	50RB#0-75RB#0	23.127	24.75	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	50RB#0-75RB#0	23.127	24.65	PASS



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41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	50RB#0-75RB#0	23.177	24.75	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	50RB#0-75RB#0	23.127	24.70	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	50RB#0-75RB#0	23.077	24.75	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	50RB#0-75RB#0	23.127	25.05	PASS
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	100RB#0-100RB#0	37.722	42.48	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	37.642	41.68	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	100RB#0-100RB#0	37.722	42.48	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	100RB#0-100RB#0	37.642	41.04	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	37.483	40.88	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	100RB#0-100RB#0	37.642	41.04	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	100RB#0-100RB#0	37.562	41.12	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	37.562	41.44	PASS
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	100RB#0-100RB#0	37.562	41.20	PASS



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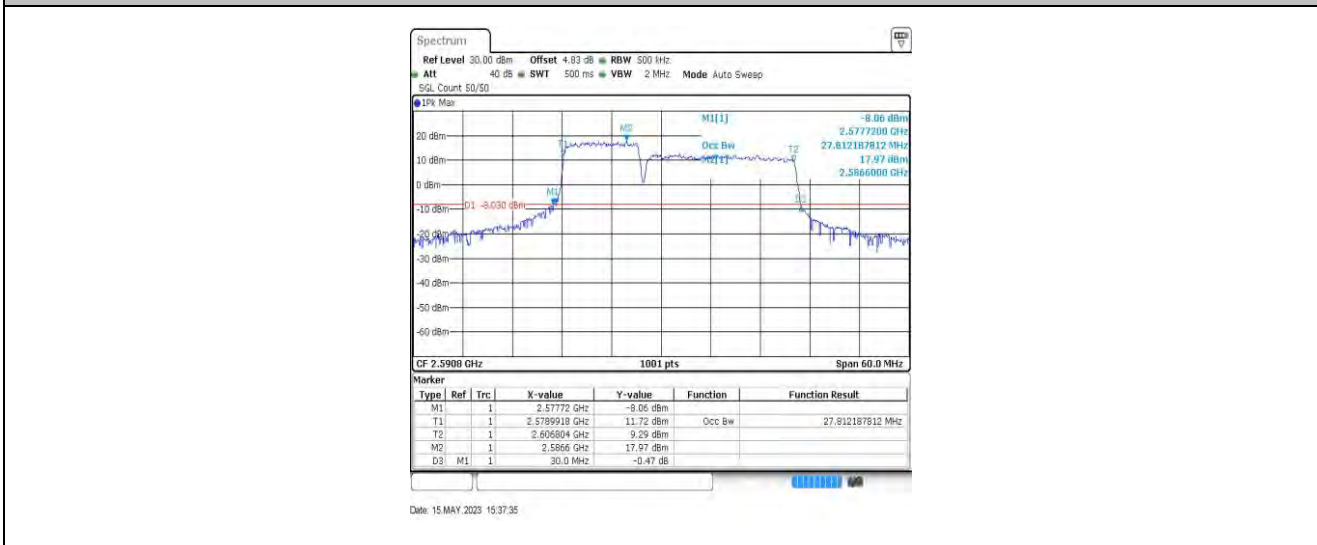
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Test Graphs



41-41-10MHz-20MHz-QPSK-QPSK-39705-39849-50RB#0-100RB#0-27.872



41-41-10MHz-20MHz-QPSK-QPSK-40526-40670-50RB#0-100RB#0-27.812



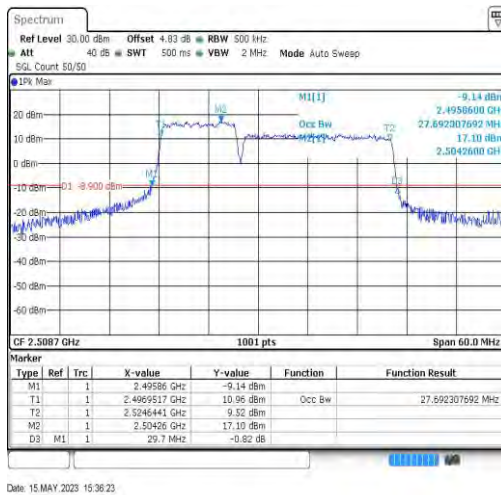
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41-41-10MHz-20MHz-QPSK-QPSK-41346-41490-50RB#0-100RB#0-27.812



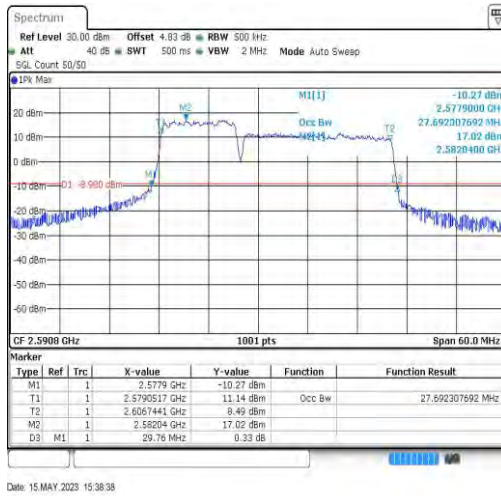
41-41-10MHz-20MHz-16QAM-16QAM-39705-39849-50RB#0-100RB#0-27.692



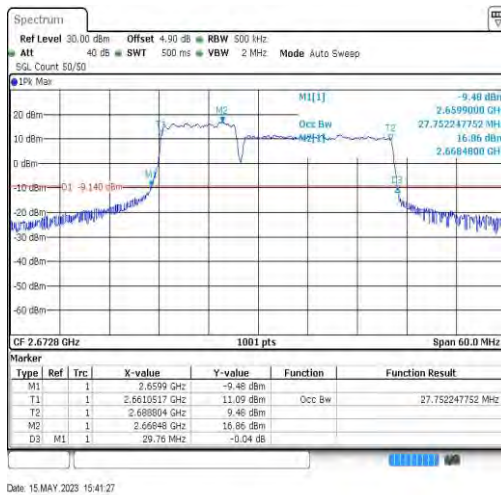
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41-41-10MHz-20MHz-16QAM-16QAM-40526-40670-50RB#0-100RB#0-27.692



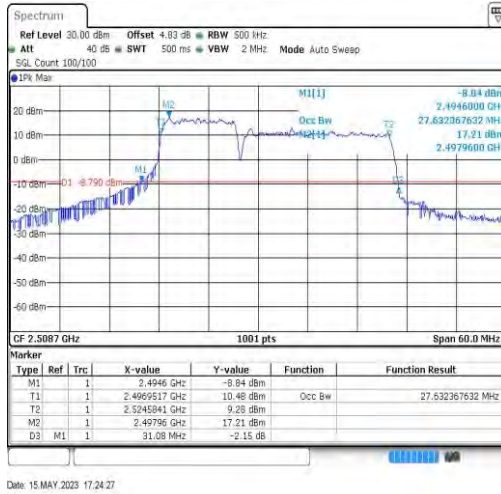
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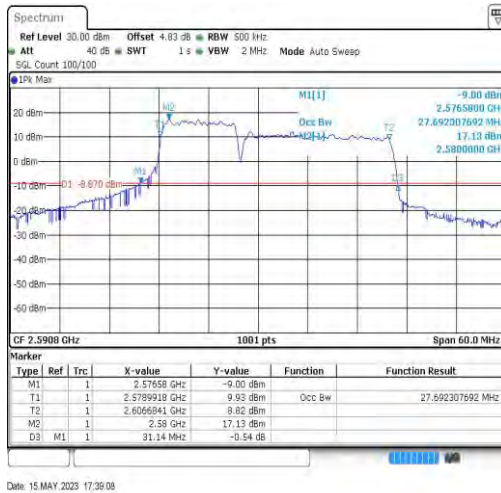
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41-41-10MHz-20MHz-64QAM-64QAM-39705-39849-50RB#0-100RB#0-27.632



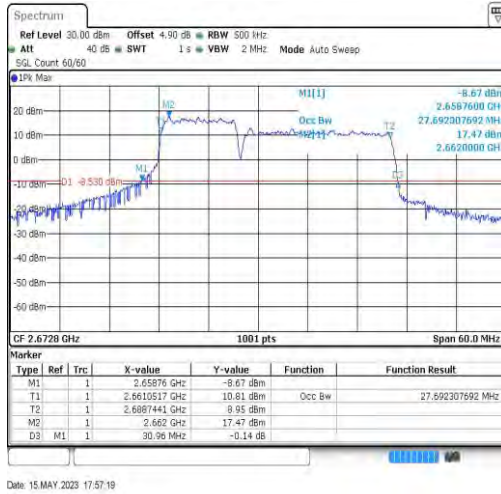
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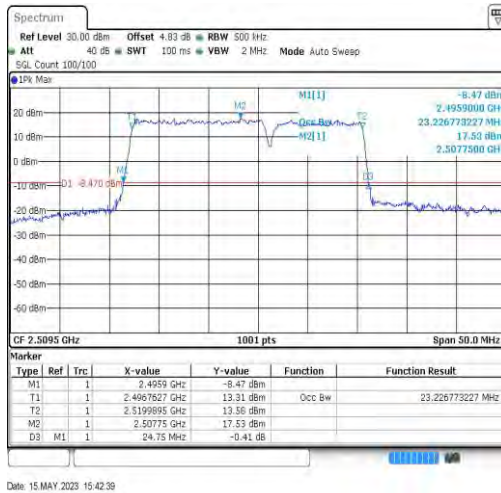
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41-41-10MHz-20MHz-64QAM-64QAM-41346-41490-50RB#0-100RB#0-27.692

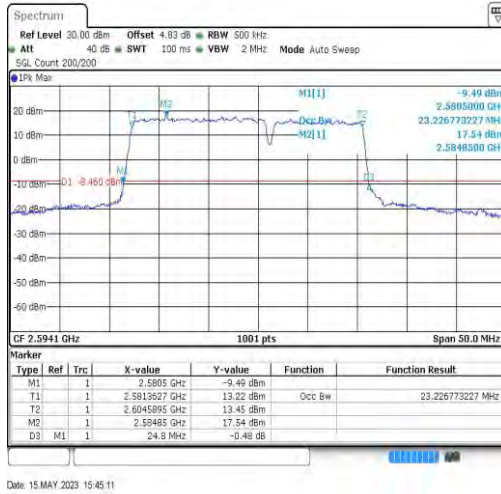


41-41-15MHz-10MHz-QPSK-QPSK-39725-39845-75RB#0-50RB#0-23.227

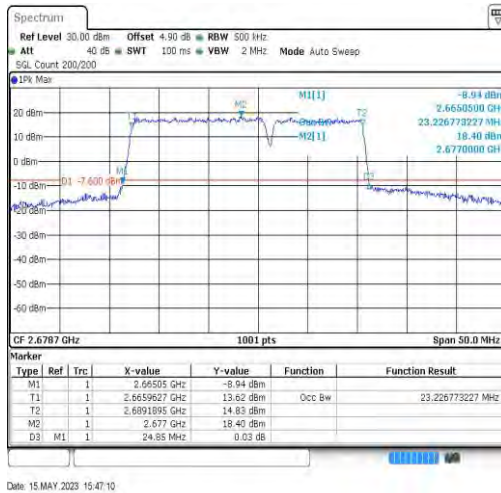


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41-41-15MHz-10MHz-QPSK-QPSK-40571-40691-75RB#0-50RB#0-23.227

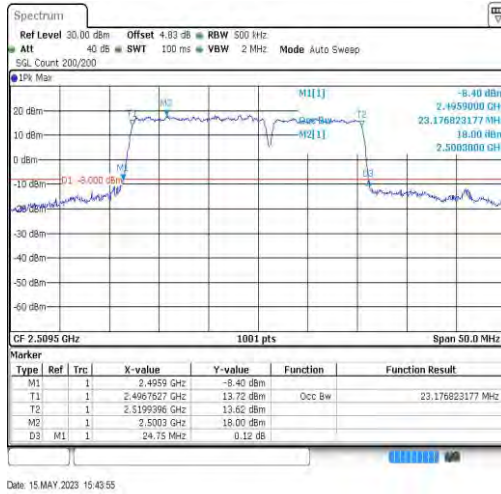


41-41-15MHz-10MHz-QPSK-QPSK-41417-41537-75RB#0-50RB#0-23.227



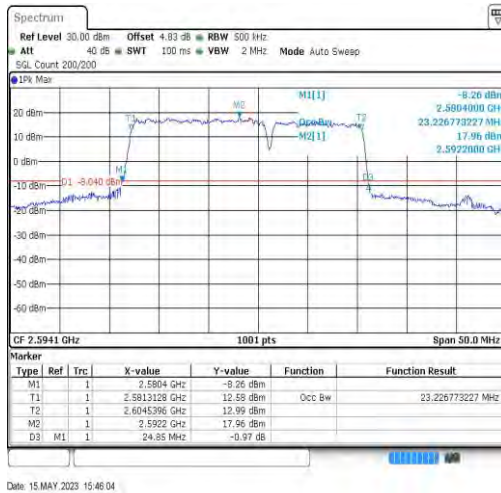
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Date: 15 MAY 2023 15:43:55

41-41-15MHz-10MHz-16QAM-16QAM-39725-39845-75RB#0-50RB#0-23.177



Date: 15 MAY 2023 15:46:04

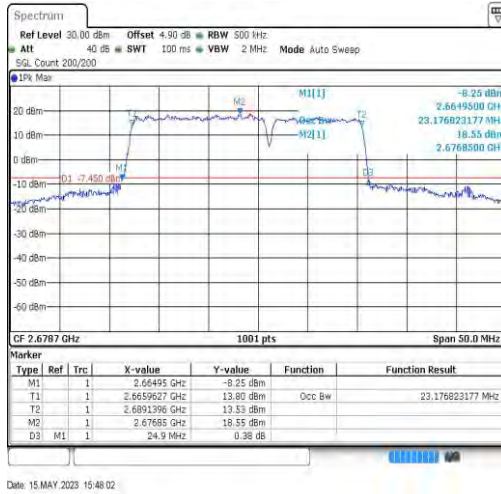
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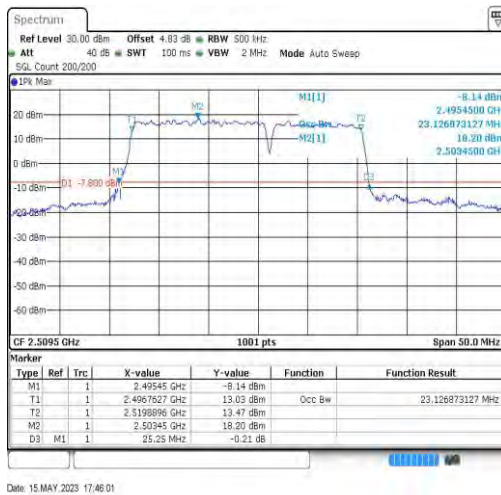
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41-41-15MHz-10MHz-16QAM-16QAM-41417-41537-75RB#0-50RB#0-23.177



41-41-15MHz-10MHz-64QAM-64QAM-39725-39845-75RB#0-50RB#0-23.127

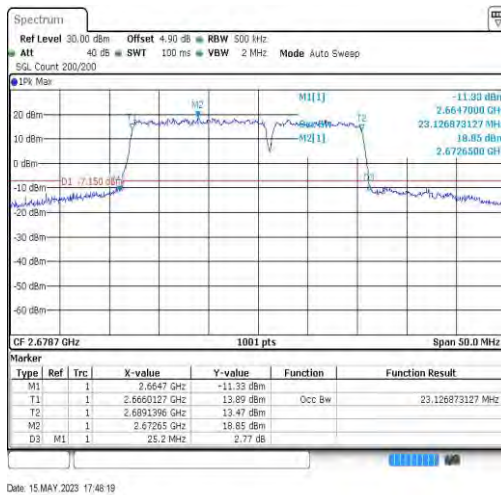


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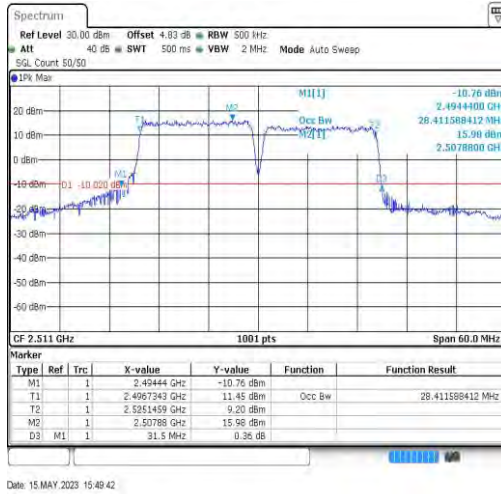
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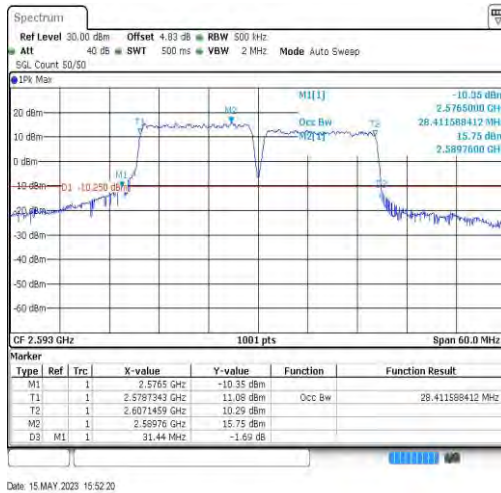
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Date: 15 MAY 2023 15:49:42

41-41-15MHz-15MHz-QPSK-QPSK-39725-39875-75RB#0-75RB#0-28.412



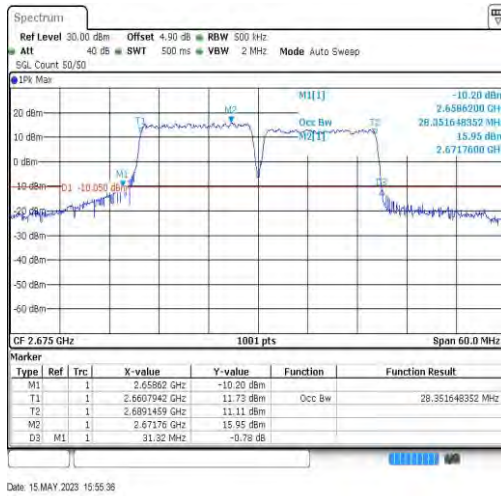
Date: 15 MAY 2023 15:52:20

41-41-15MHz-15MHz-QPSK-QPSK-40545-40695-75RB#0-75RB#0-28.412



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Date: 15 MAY 2023 15:55:36

41-41-15MHz-15MHz-QPSK-QPSK-41365-41515-75RB#0-75RB#0-28.352



Date: 15 MAY 2023 15:50:34

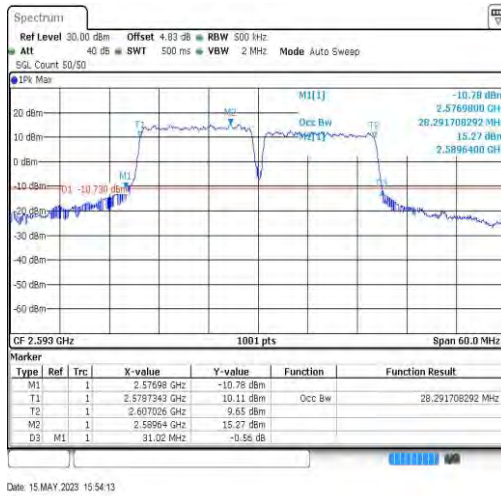
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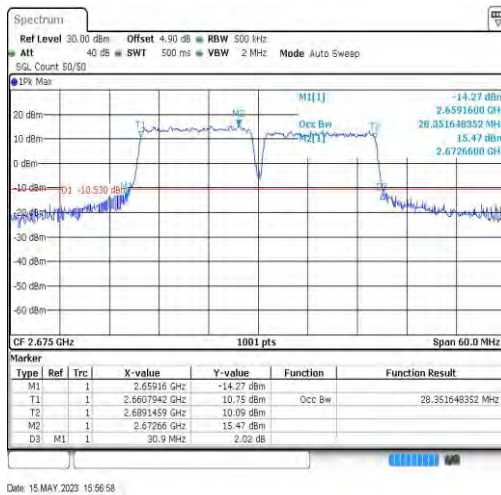
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Date: 15 MAY 2023 15:54:13

41-41-15MHz-15MHz-16QAM-16QAM-40545-40695-75RB#0-75RB#0-28.292



Date: 15 MAY 2023 15:56:58

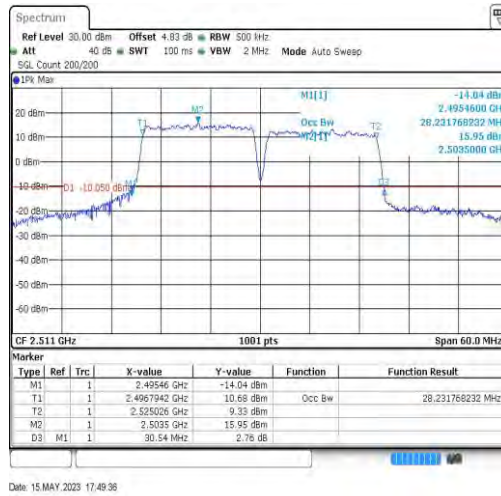
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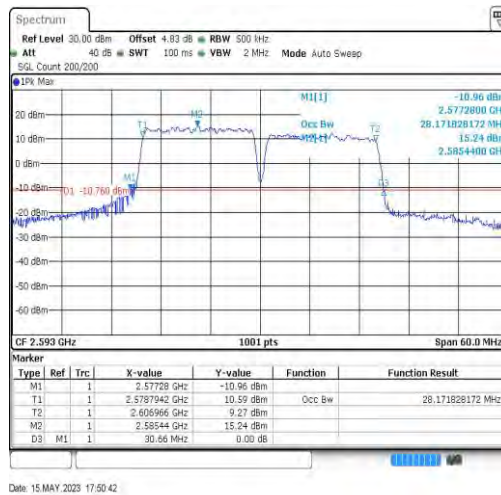
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41-41-15MHz-15MHz-64QAM-64QAM-39725-39875-75RB#0-75RB#0-28.232



41-41-15MHz-15MHz-64QAM-64QAM-40545-40695-75RB#0-75RB#0-28.172



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41-41-15MHz-15MHz-64QAM-64QAW-41365-41515-75RB#0-75RB#0-28.232



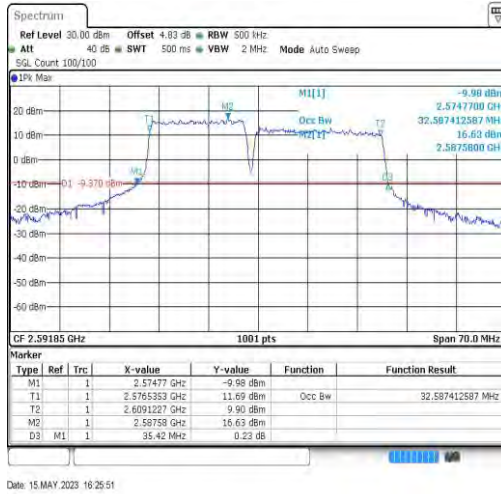
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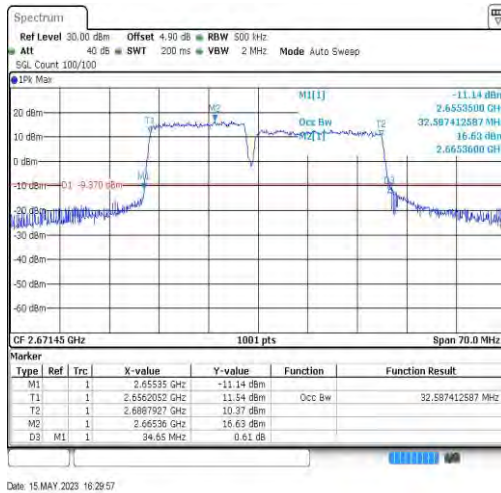
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41-41-15MHz-20MHz-QPSK-QPSK-40523-40694-75RB#0-100RB#0-32.587

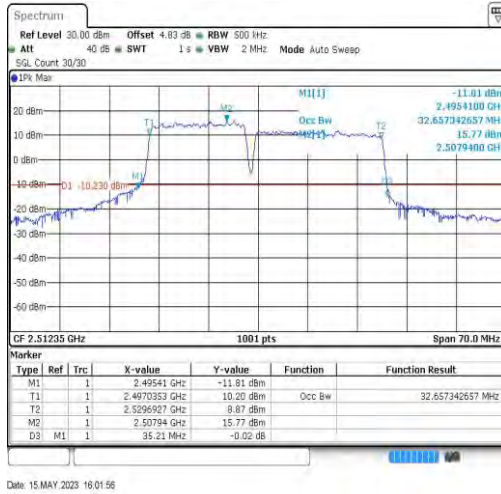


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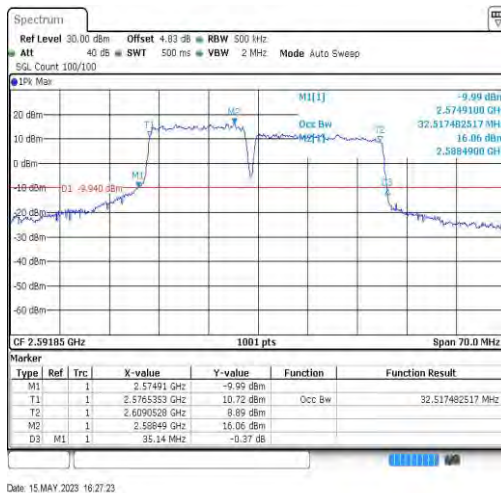
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Date: 15 MAY 2023 16:01:56

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Date: 15 MAY 2023 16:27:23

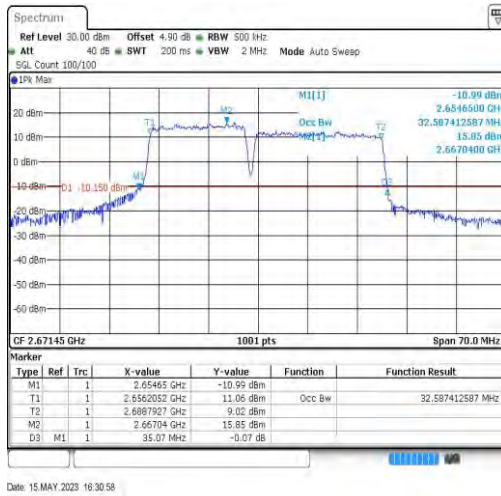
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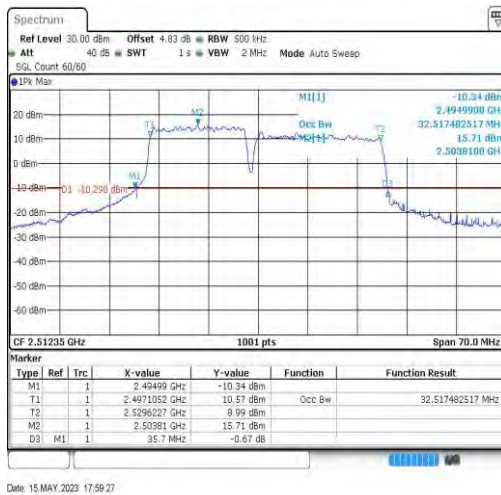
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Date: 15 MAY 2023 16:30:58

41-41-15MHz-20MHz-16QAM-16QAM-41319-41490-75RB#0-100RB#0-32.587



Date: 15 MAY 2023 17:59:27

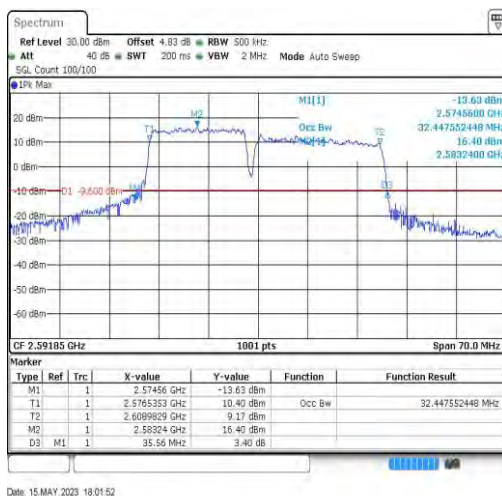
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41-41-15MHz-20MHz-64QAM-64QAM-40523-40694-75RB#0-100RB#0-32.448



41-41-15MHz-20MHz-64QAM-64QAM-41319-41490-75RB#0-100RB#0-32.517



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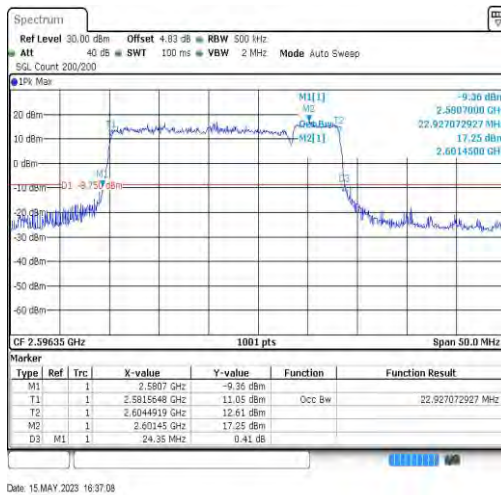
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Date: 15 MAY 2023 16:32:48

41-41-20MHz-5MHz-QPSK-QPSK-39750-39867-100RB#0-25RB#0-22.977



Date: 15 MAY 2023 16:37:08

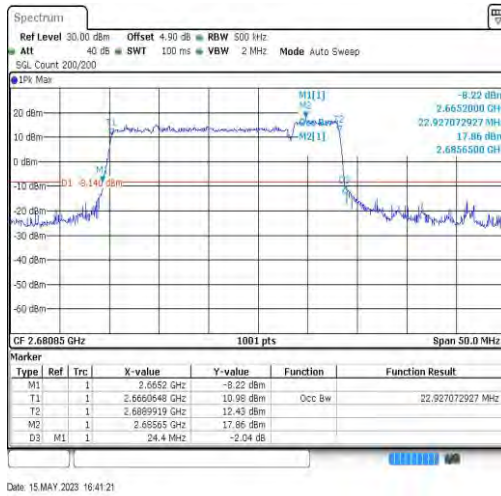
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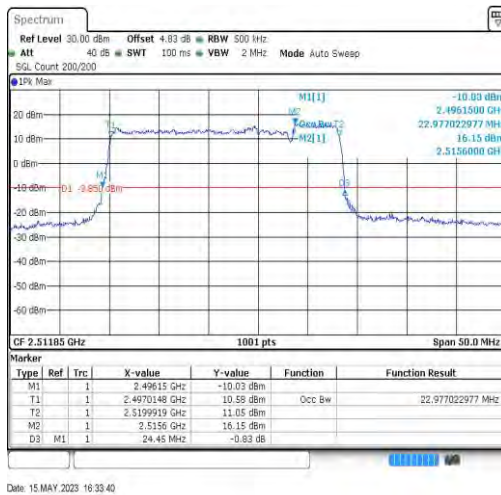
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41-41-20MHz-5MHz-QPSK-QPSK-41440-41557-100RB#0-25RB#0-22.927



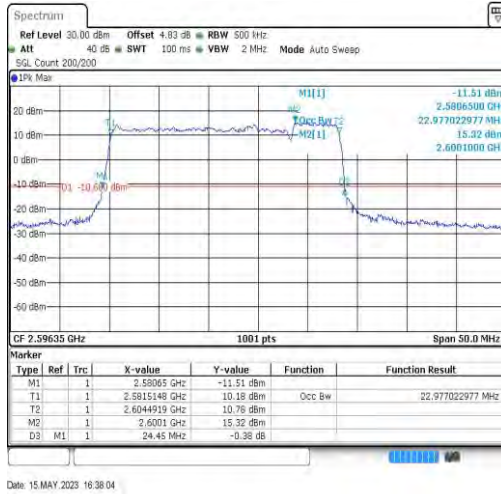
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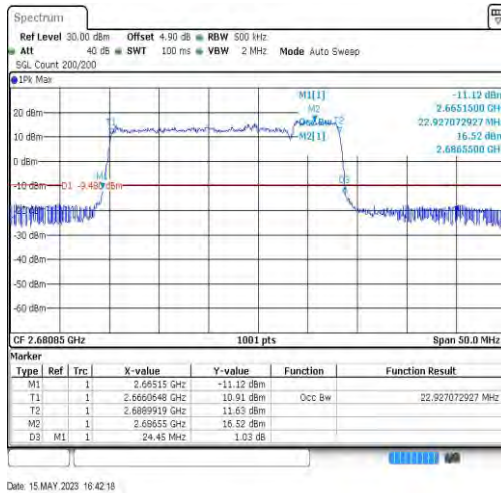
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Date: 15 MAY 2023 16:38:04

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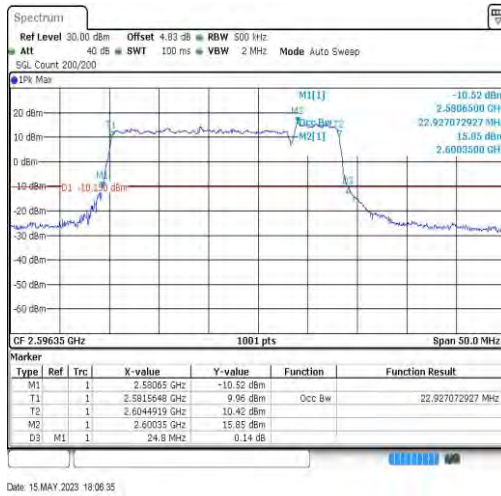
Date: 15 MAY 2023 16:42:18

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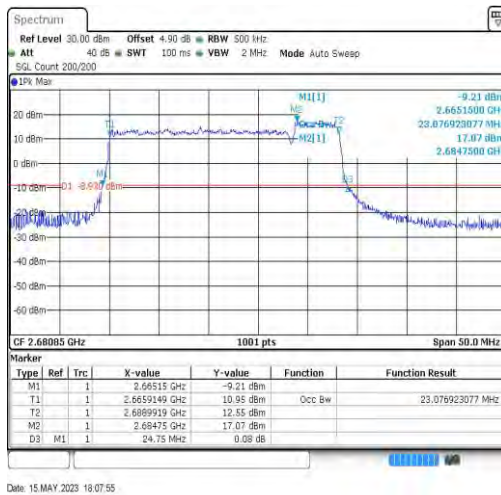


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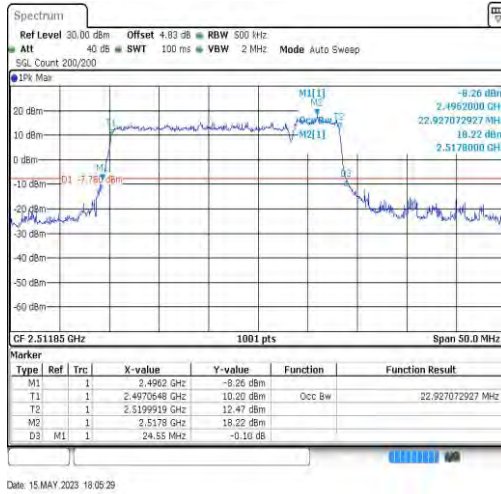


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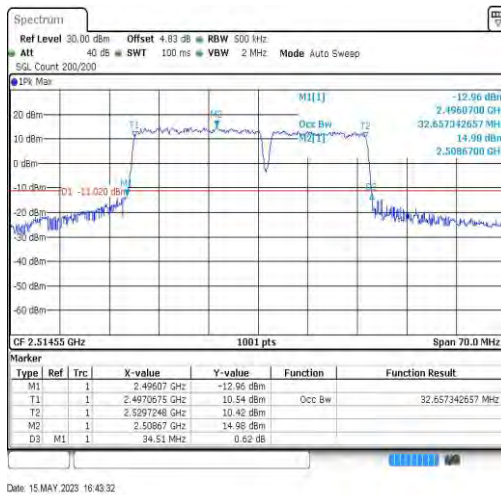


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41-41-20MHz-5MHz-64QAM-64QAM-39750-39867-100RB#0-25RB#0-22.927

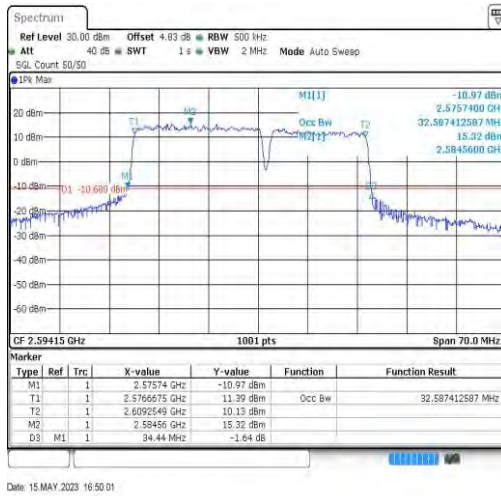


41-41-20MHz-15MHz-QPSK-QPSK-39750-39921-100RB#0-75RB#0-32.657



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41-41-20MHz-15MHz-QPSK-QPSK-40546-40717-100RB#0-75RB#0-32.587



41-41-20MHz-15MHz-QPSK-QPSK-41341-41512-100RB#0-75RB#0-32.657



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Date: 15 MAY 2023 16:45:16

41-41-20MHz-15MHz-16QAM-16QAM-39750-39921-100RB#0-75RB#0-32.587



Date: 15 MAY 2023 16:53:27

41-41-20MHz-15MHz-16QAM-16QAM-40546-40717-100RB#0-75RB#0-32.587



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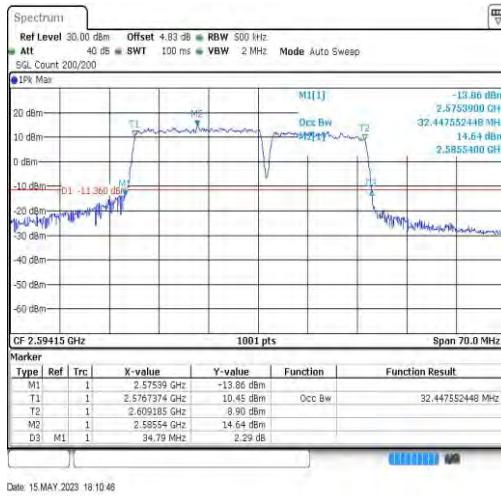
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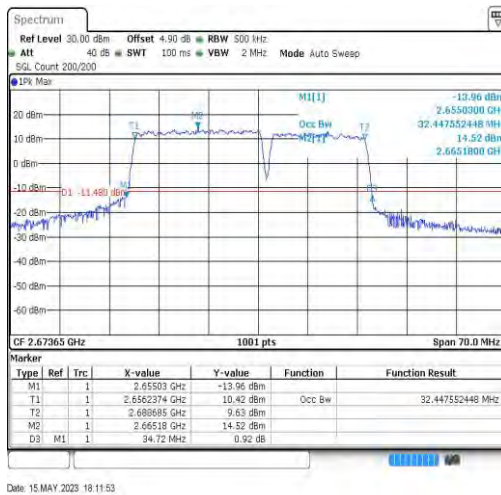
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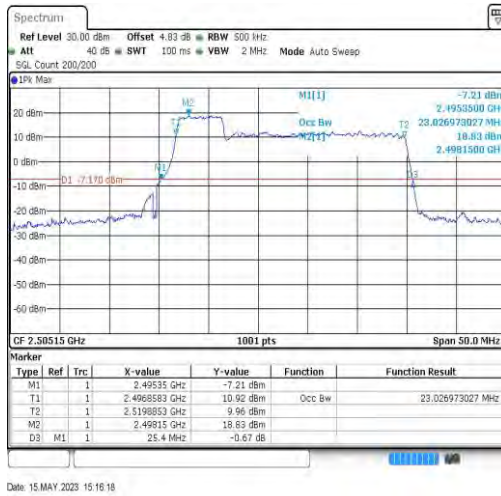
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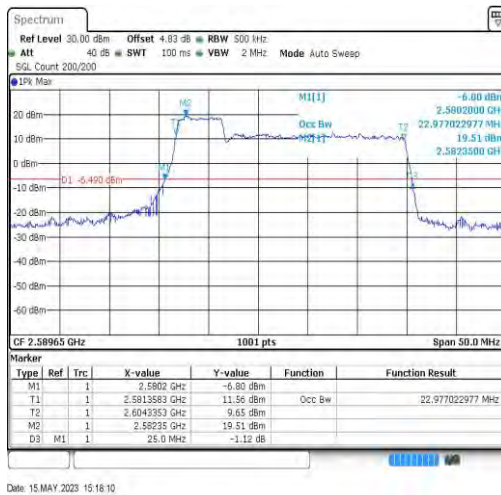
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41-41-5MHz-20MHz-QPSK-QPSK-39683-39800-25RB#0-100RB#0-23.027



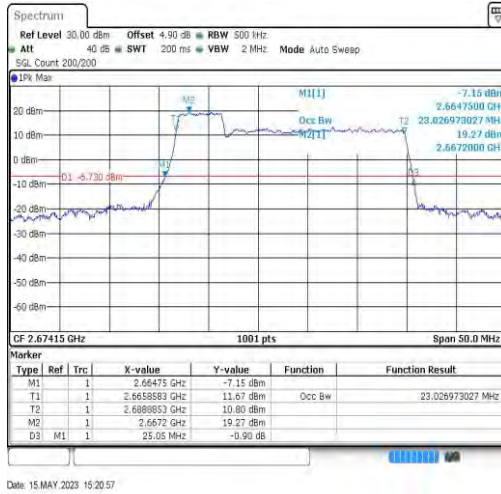
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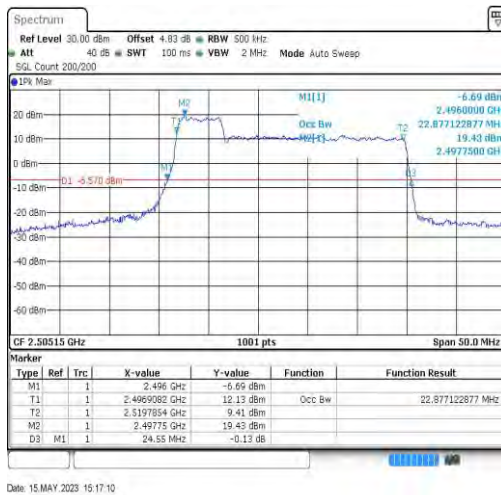
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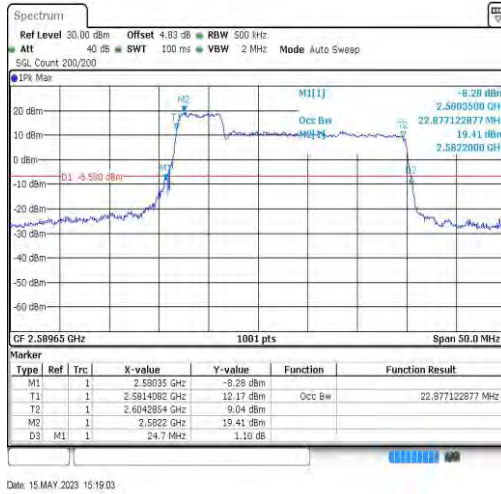
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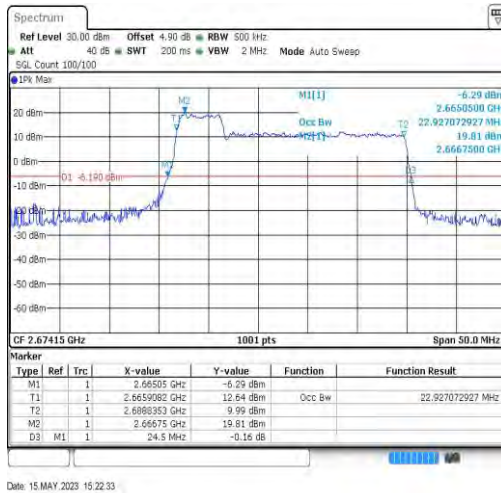
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Date: 15 MAY 2023 15:19:03

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Date: 15 MAY 2023 15:22:33

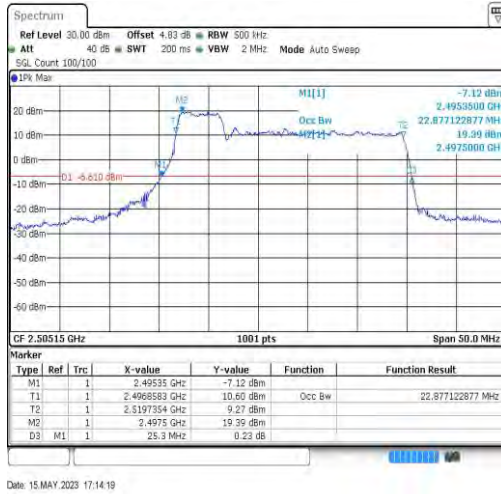
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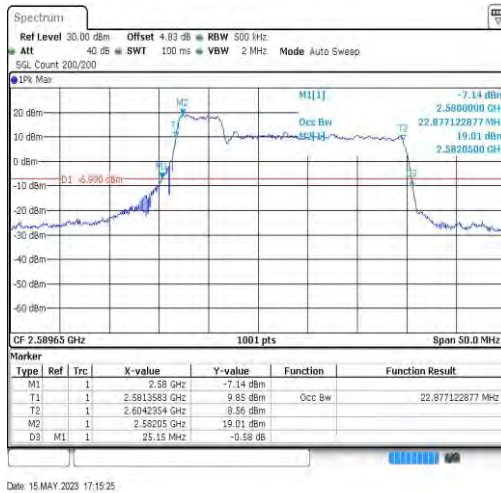
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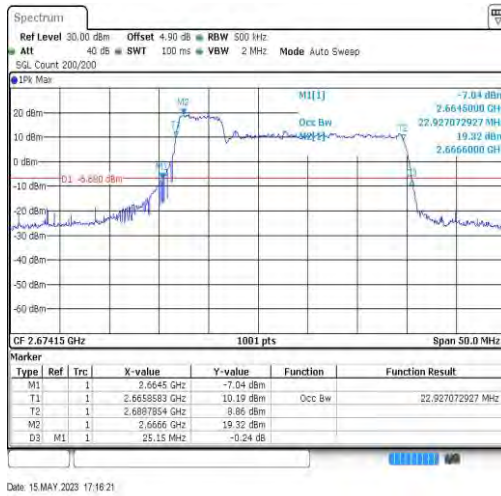
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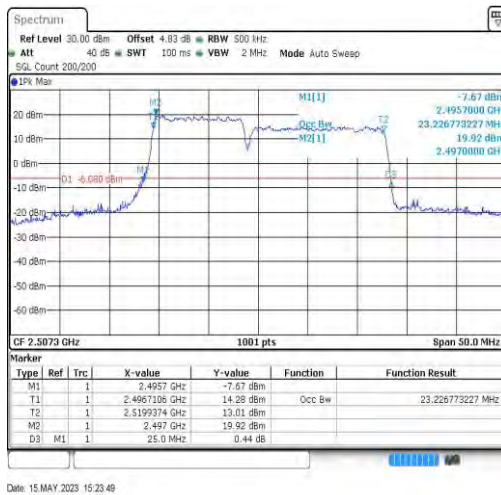
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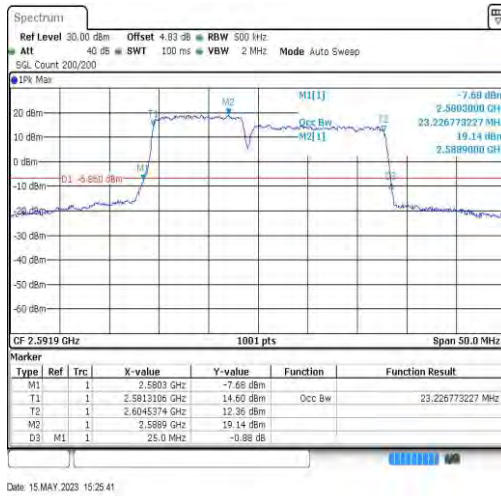
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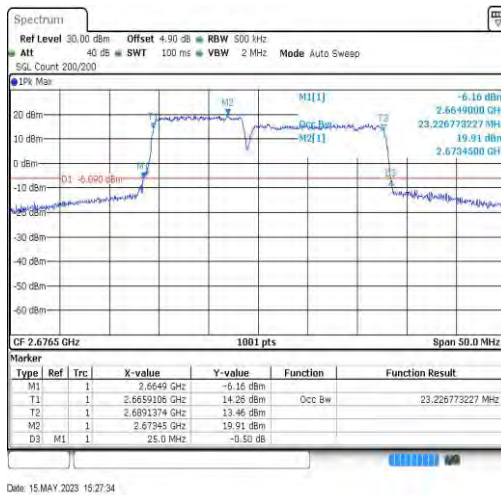
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41-41-10MHz-15MHz-QPSK-QPSK-40549-40669-50RB#0-75RB#0-23.227

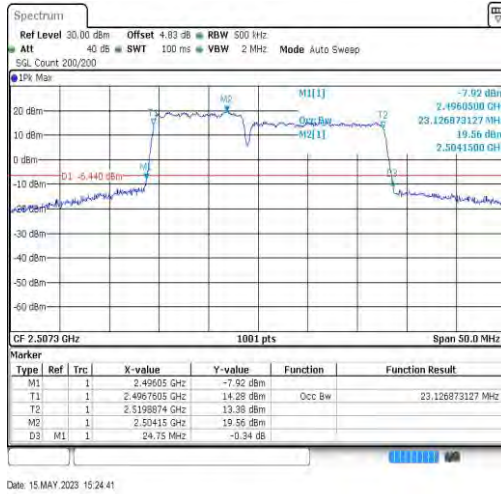


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41-41-10MHz-15MHz-16QAM-16QAM-39703-39823-50RB#0-75RB#0-23.127

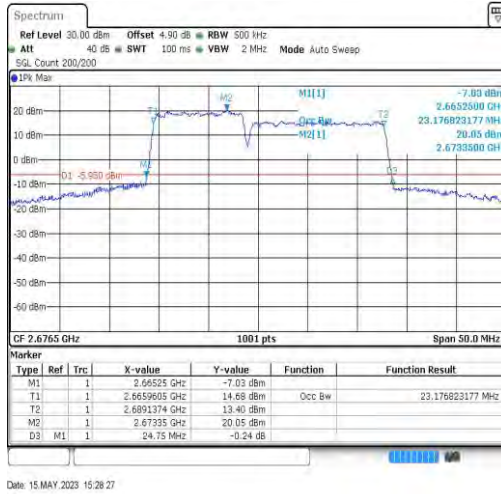


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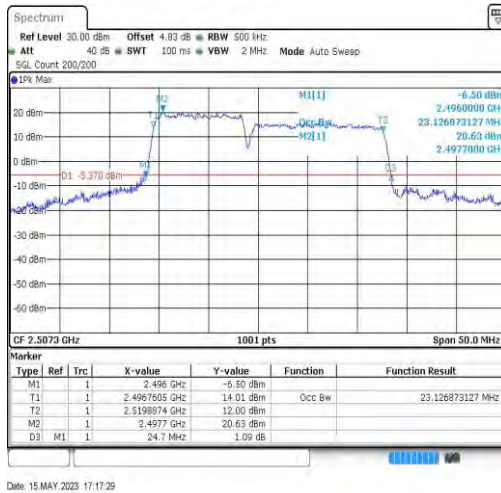


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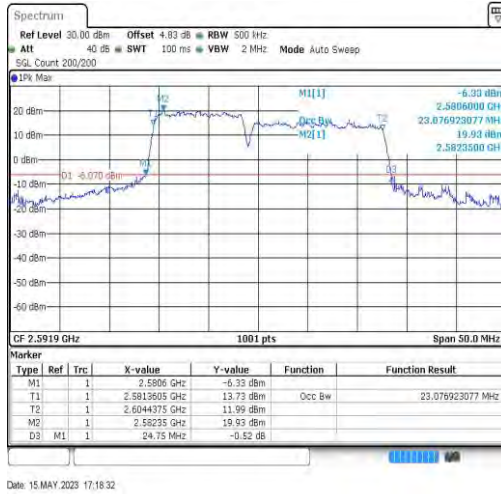
41-41-10MHz-15MHz-64QAM-64QAM-39703-39823-50RB#0-75RB#0-23.127



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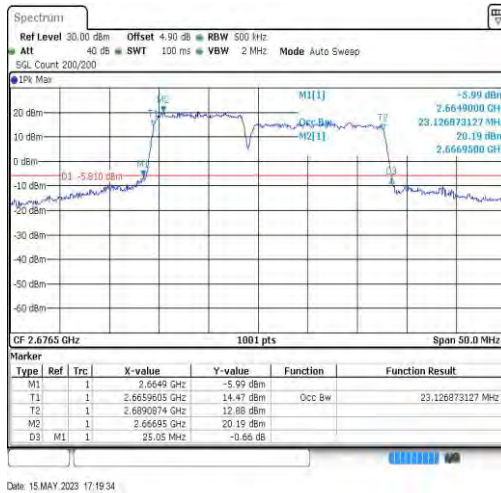
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Date: 15 MAY 2023 17:18:32

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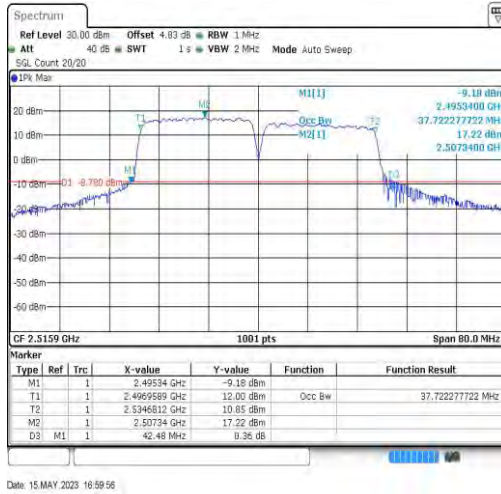
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41-41-10MHz-15MHz-64QAM-64QAM-41395-41515-50RB#0-75RB#0-23.127



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41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0-37.722



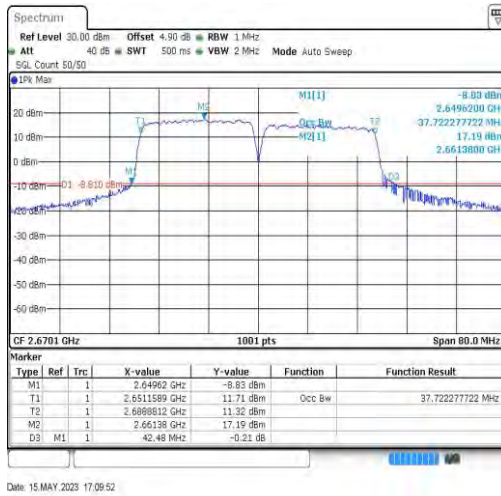
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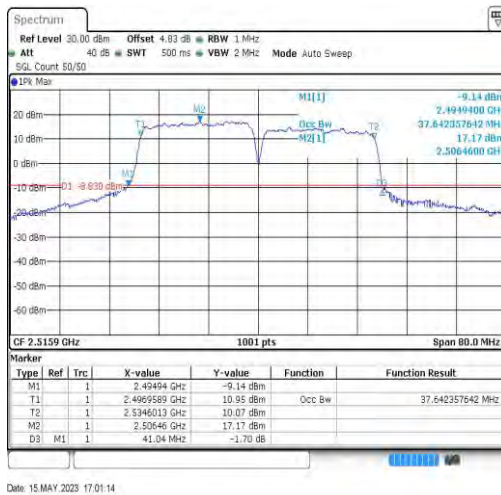
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Date: 15 MAY 2023 17:09:52

41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-100RB#0-100RB#0-37.722



Date: 15 MAY 2023 17:01:14

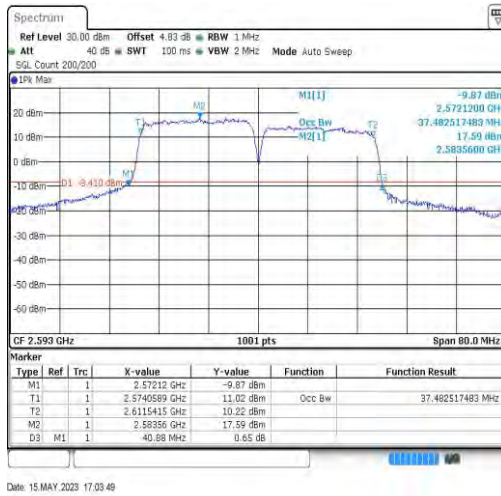
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41-41-20MHz-20MHz-16QAM-16QAM-40521-40719-100RB#0-100RB#0-37.483



41-41-20MHz-20MHz-16QAM-16QAM-41292-41490-100RB#0-100RB#0-37.642



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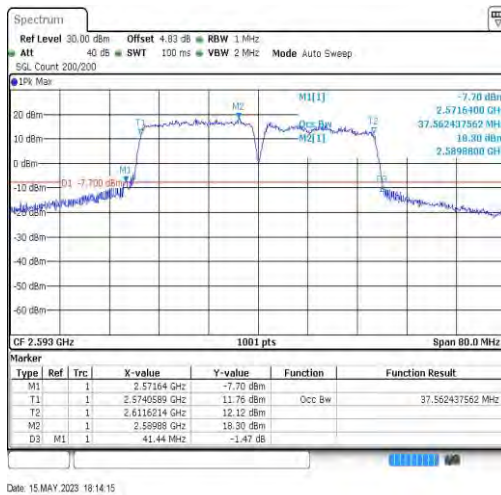
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Date: 15 MAY 2023 18:13:20

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Date: 15 MAY 2023 18:14:15

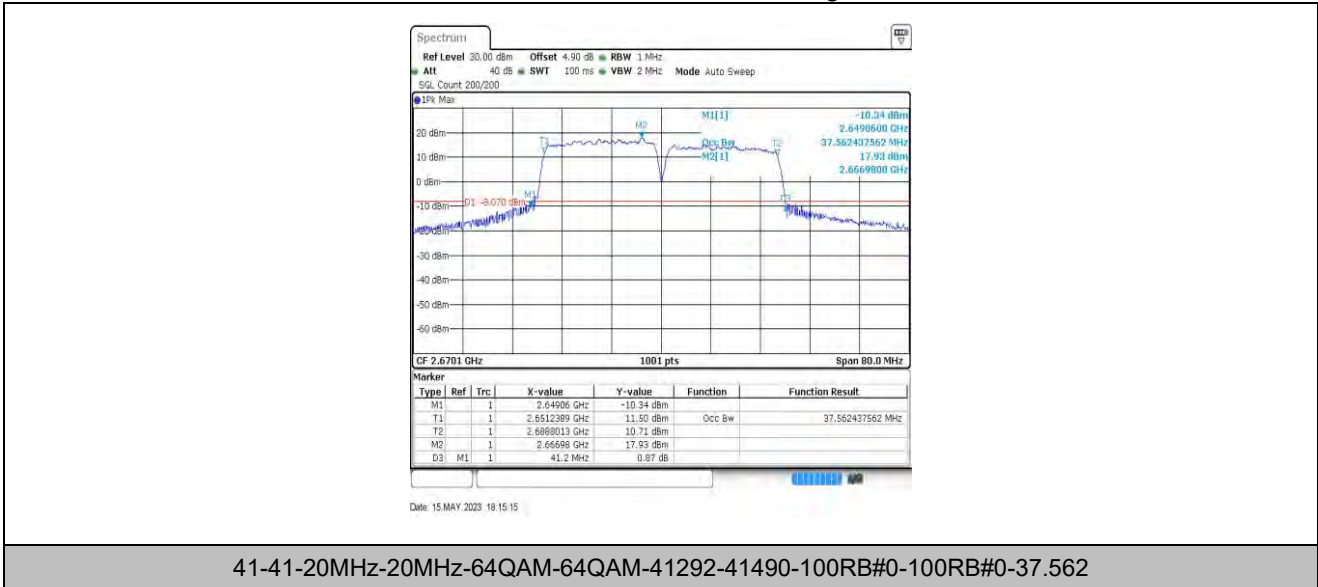
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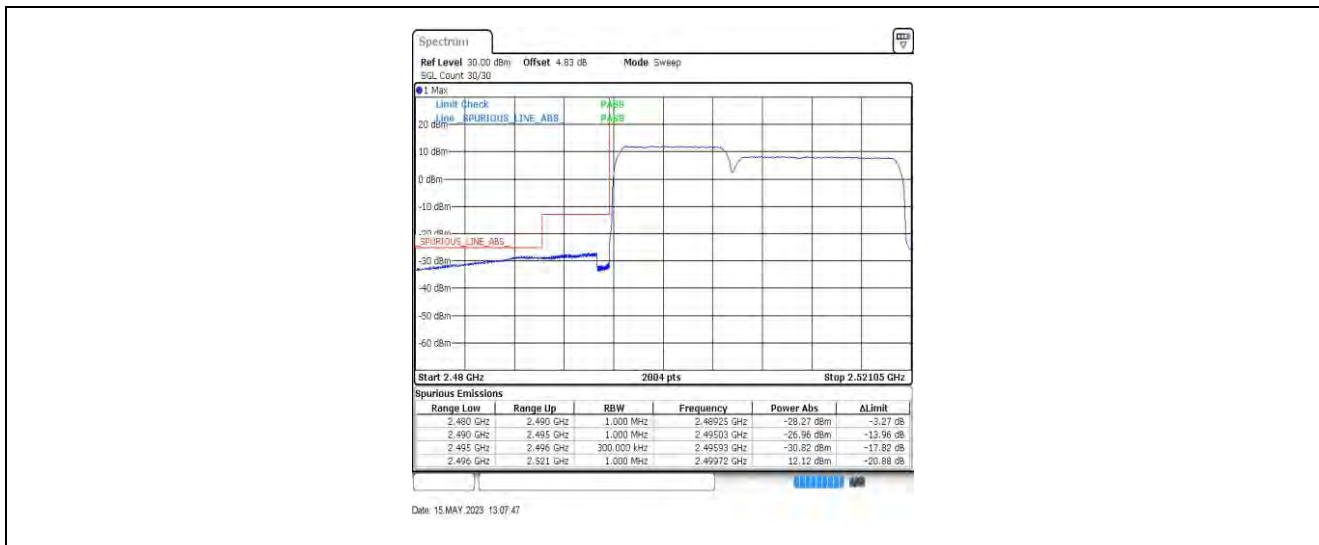
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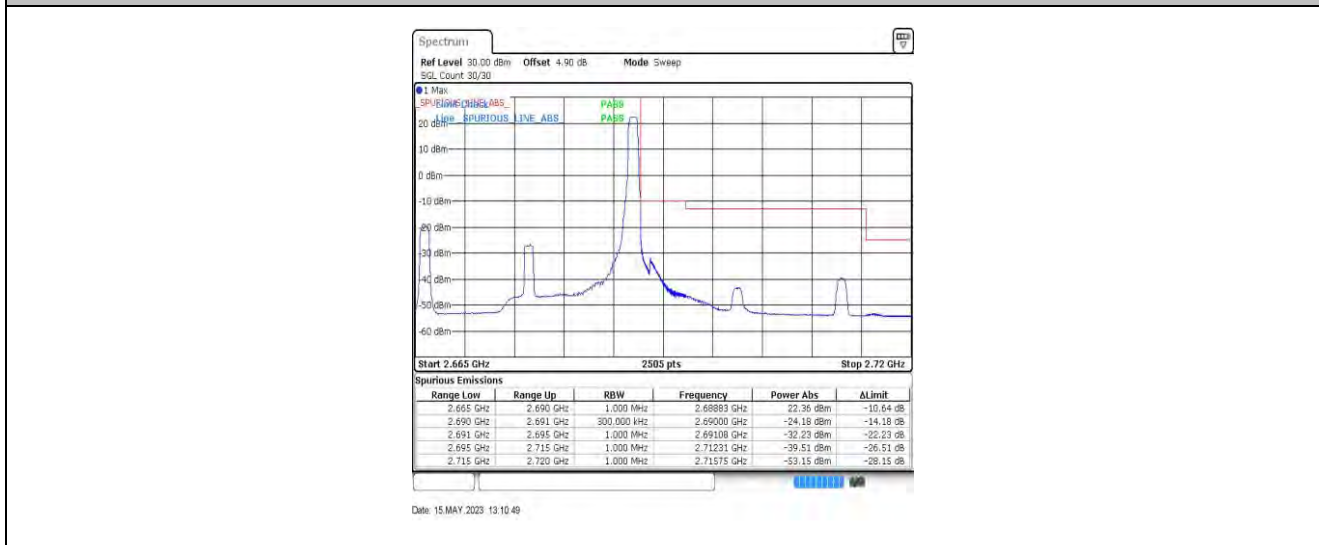
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Band Edge

Test Graphs



41-41-10MHz-15MHz-QPSK-QPSK-39703-39823-50RB#0-75RB#0



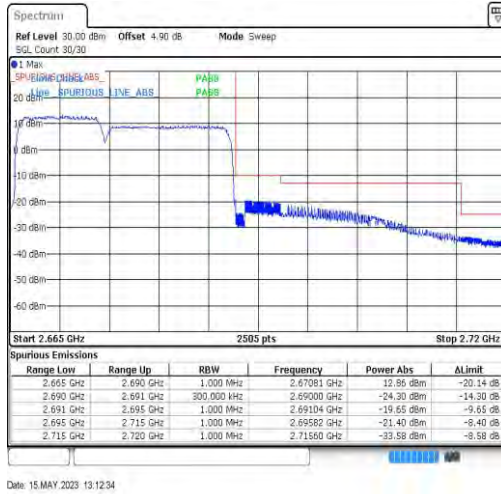
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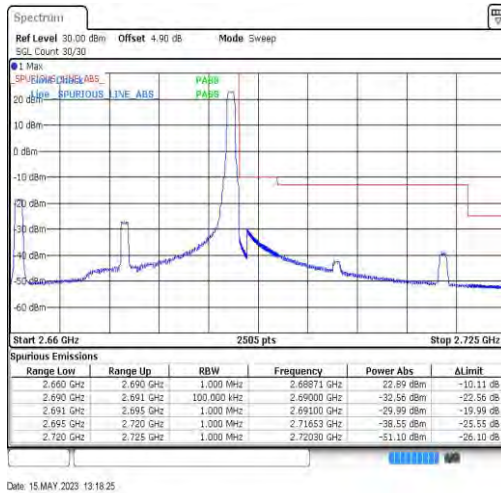
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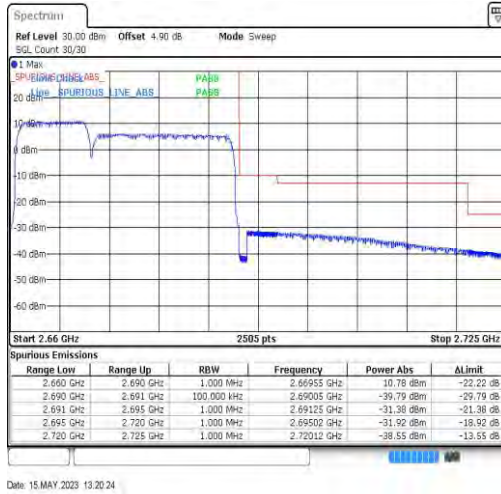
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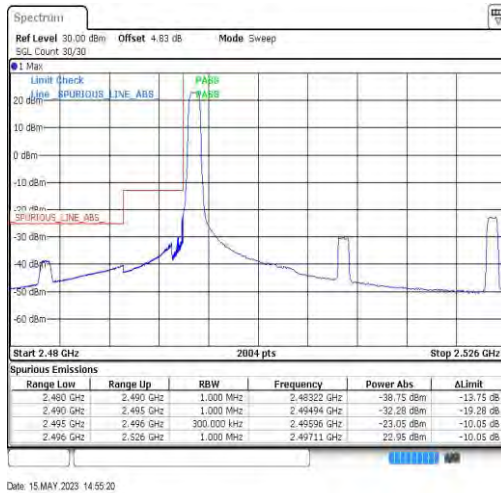
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41-41-10MHz-20MHz-QPSK-QPSK-41346-41490-50RB#0-100RB#0



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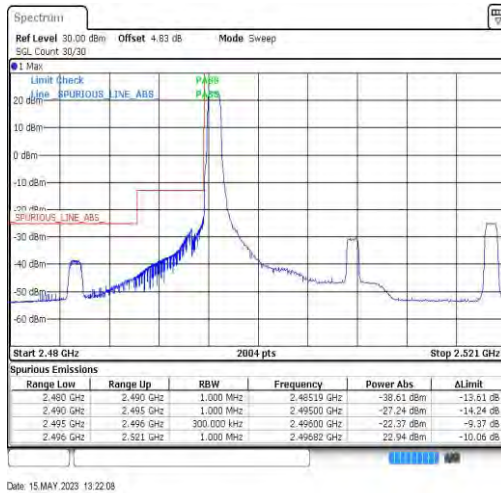
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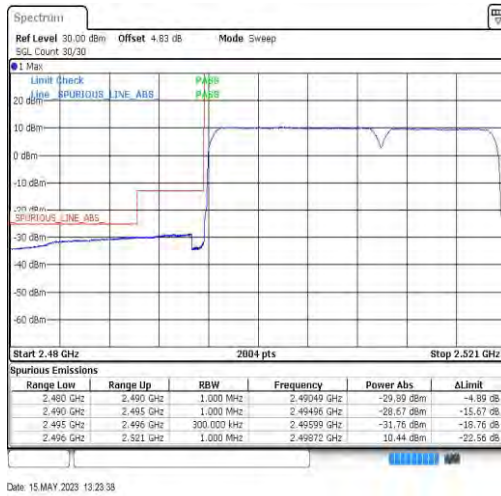
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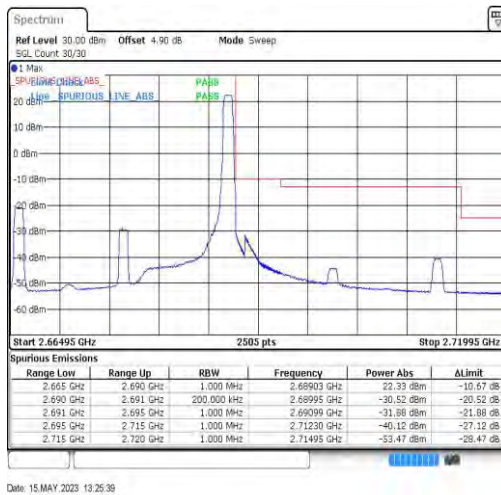
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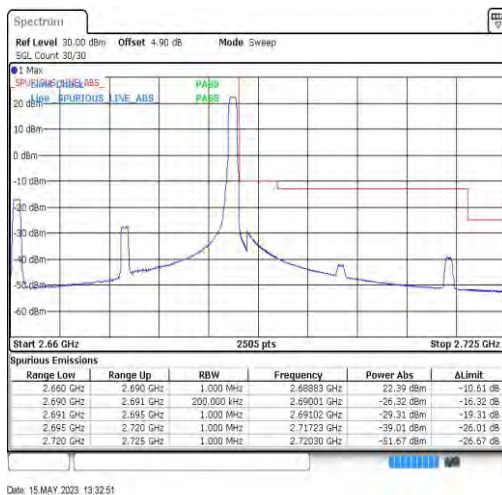
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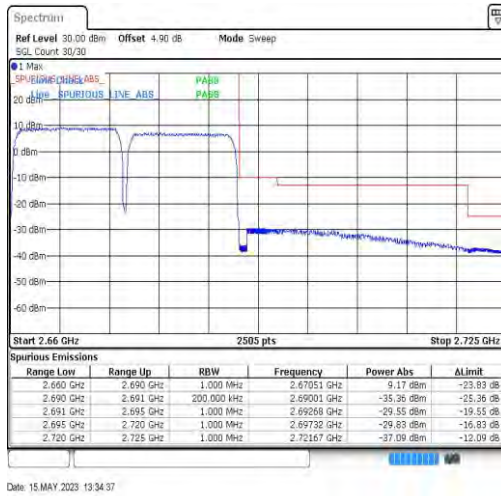
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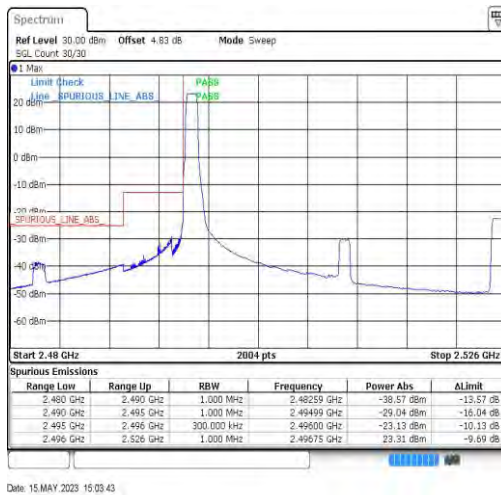
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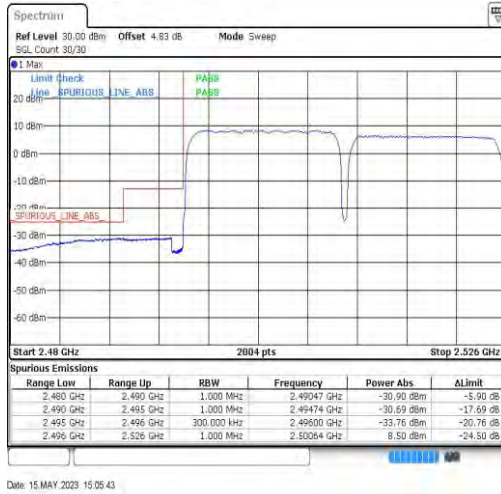
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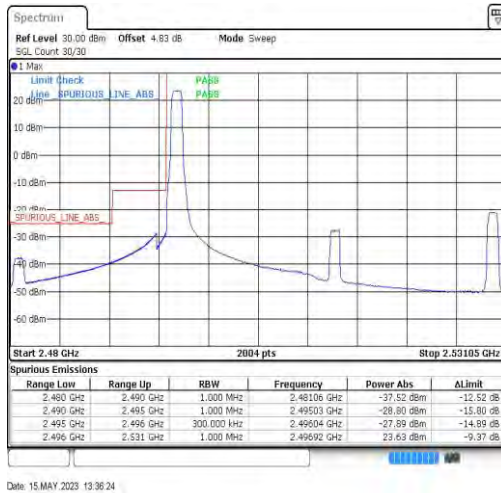
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41-41-15MHz-15MHz-QPSK-QPSK-39725-39875-75RB#0-75RB#0



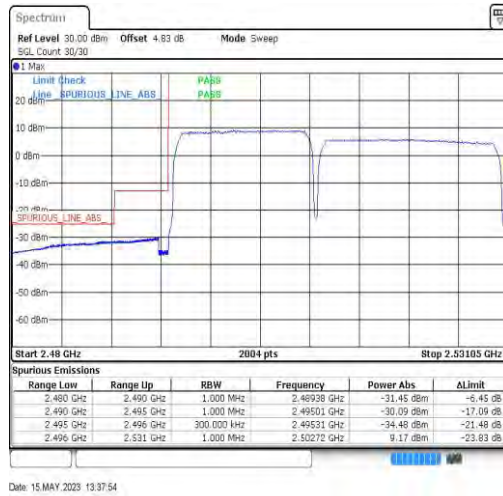
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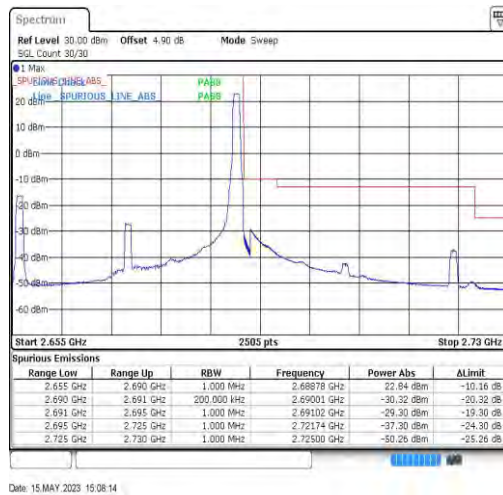
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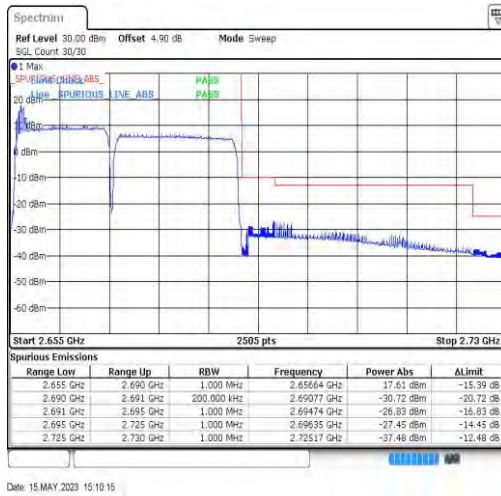


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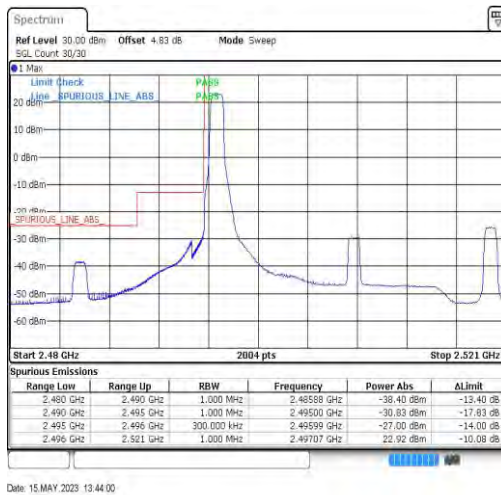


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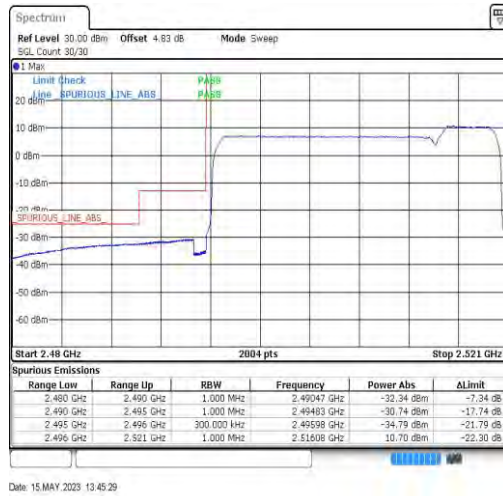
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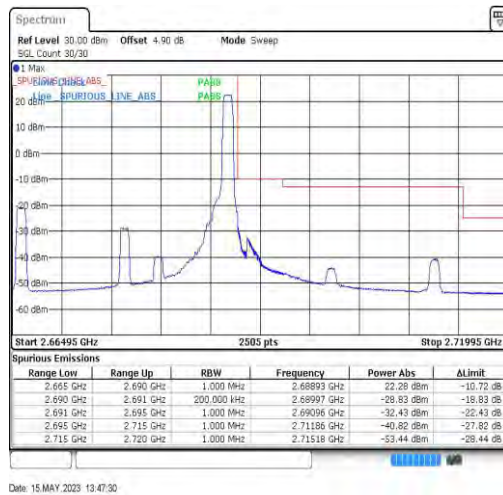
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41-41-20MHz-5MHz-QPSK-QPSK-39750-39867-100RB#0-25RB#0



41-41-20MHz-5MHz-QPSK-QPSK-41440-41557-0RB#0-1RB#24

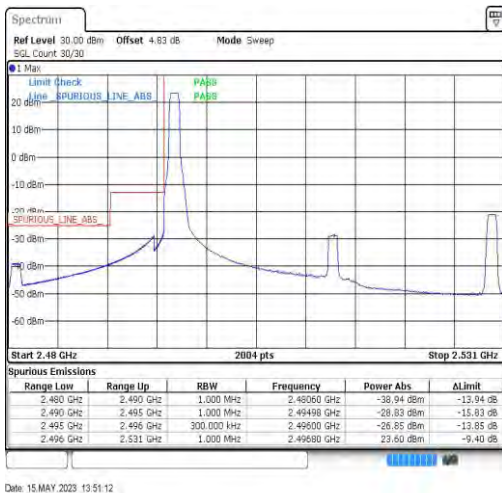


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41-41-20MHz-5MHz-QPSK-QPSK-41440-41557-100RB#0-25RB#0

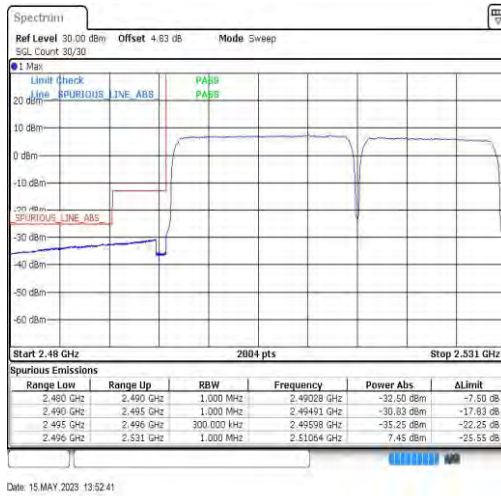


41-41-20MHz-15MHz-QPSK-QPSK-39750-39921-1RB#0-0RB#0

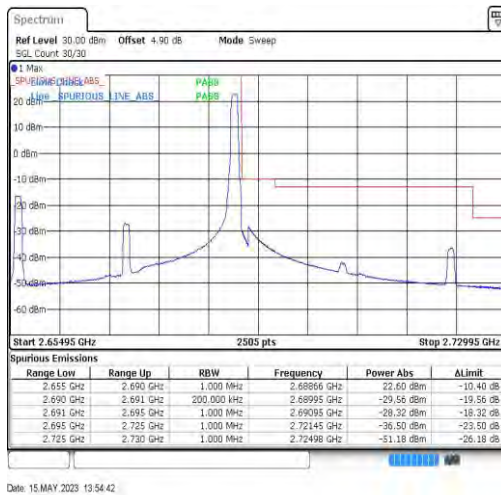


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41-41-20MHz-15MHz-QPSK-QPSK-39750-39921-100RB#0-75RB#0



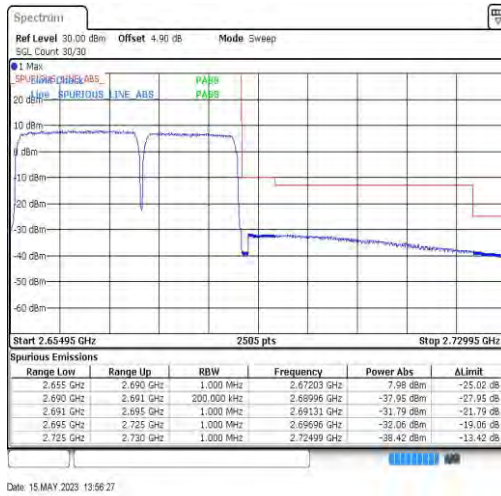
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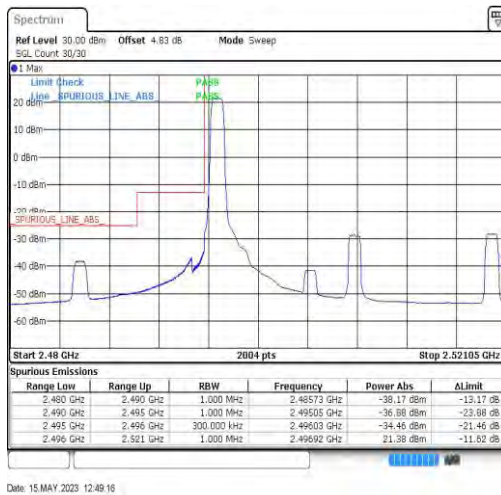
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41-41-20MHz-15MHz-QPSK-QPSK-41341-41512-100RB#0-75RB#0



41-41-5MHz-20MHz-QPSK-QPSK-39683-39800-1RB#0-0RB#0



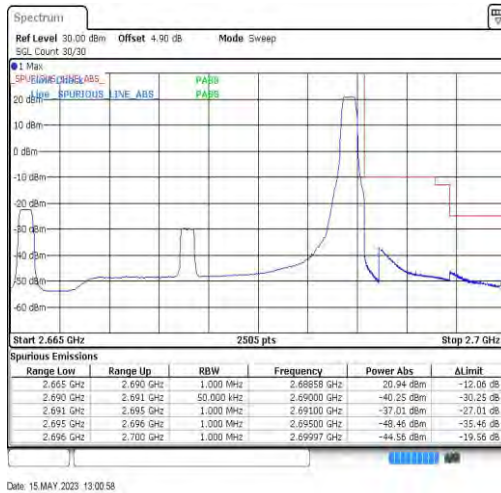
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41-41-5MHz-20MHz-QPSK-QPSK-39683-39800-25RB#0-100RB#0



41-41-5MHz-20MHz-QPSK-QPSK-41373-41490-0RB#0-1RB#99

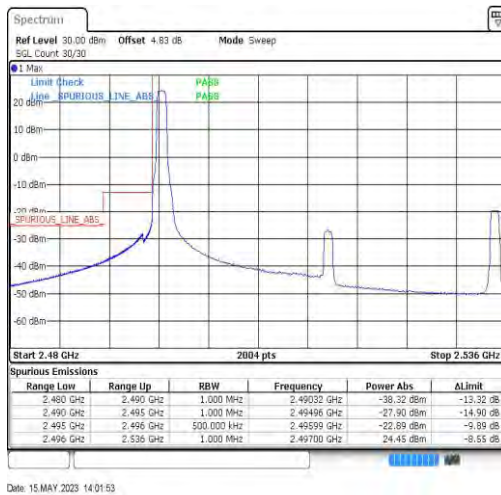


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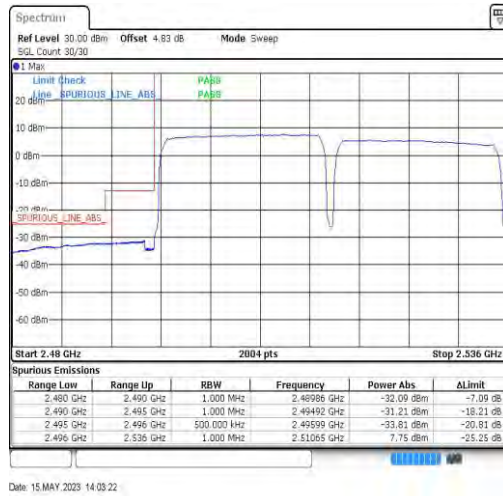
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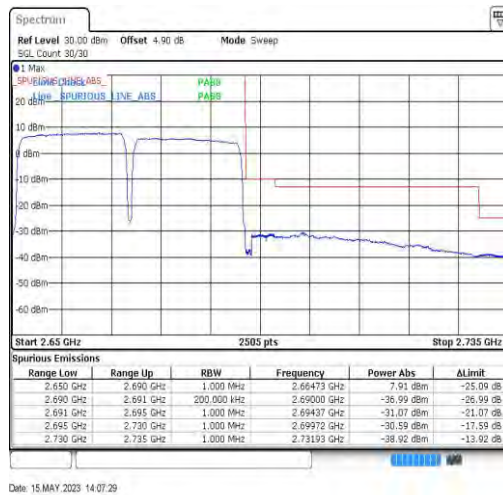
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41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0



41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-100RB#0-100RB#0



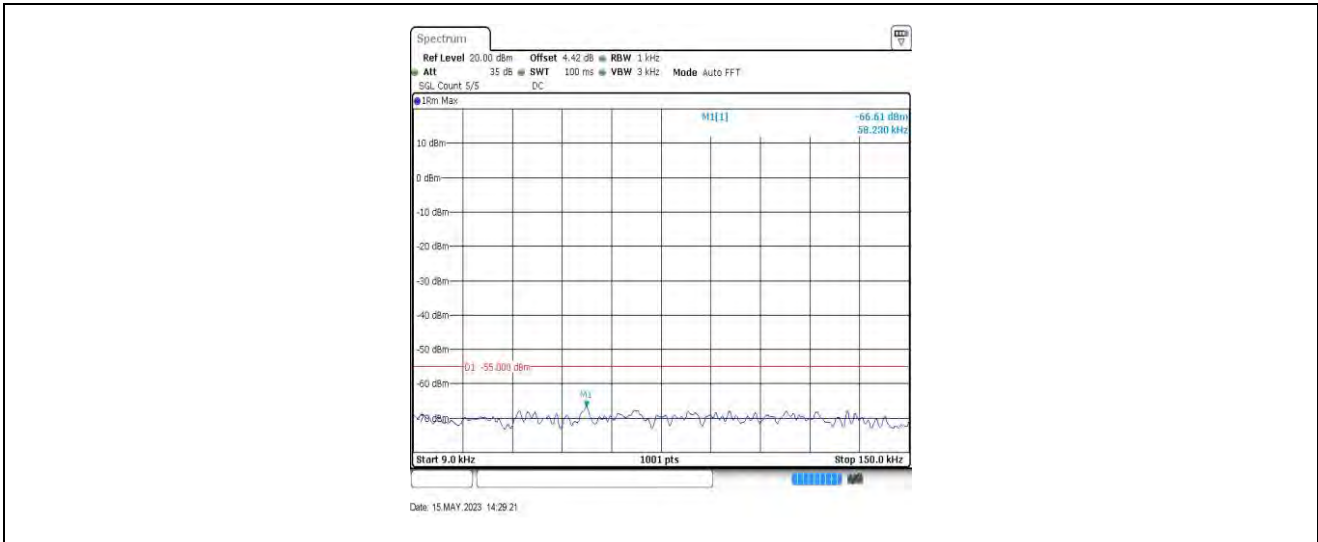
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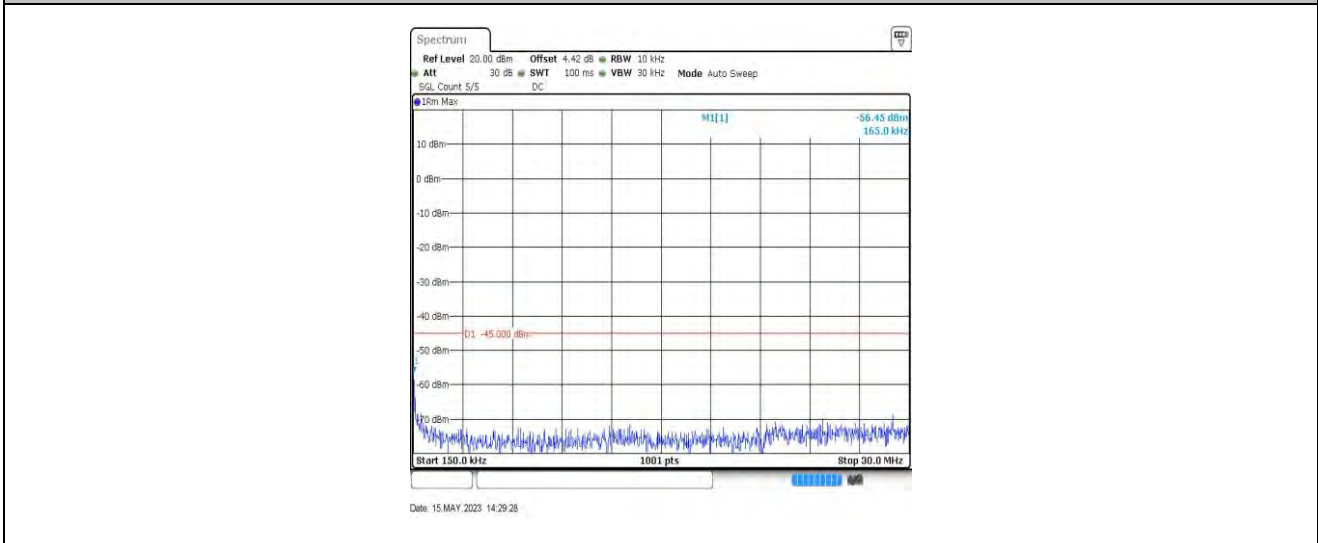
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Conducted Spurious Emission

Test Graphs



41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-ORB#0-0.009~0.15MHz



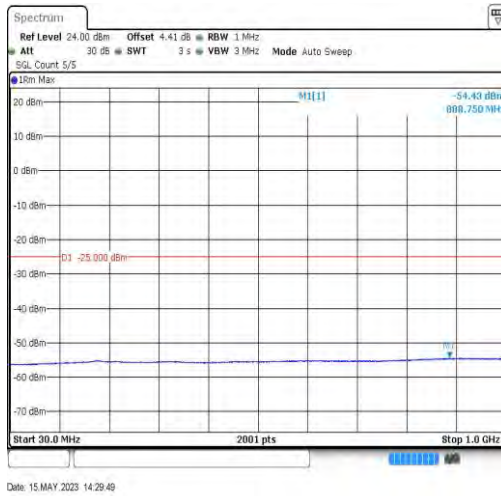
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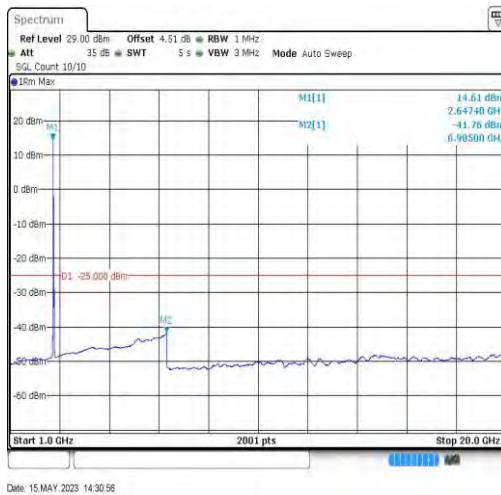
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-30~100MHz



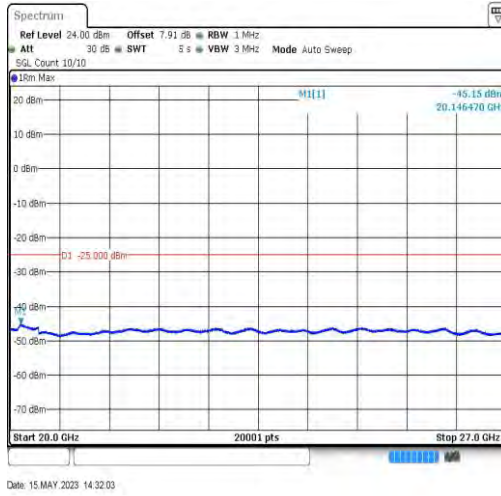
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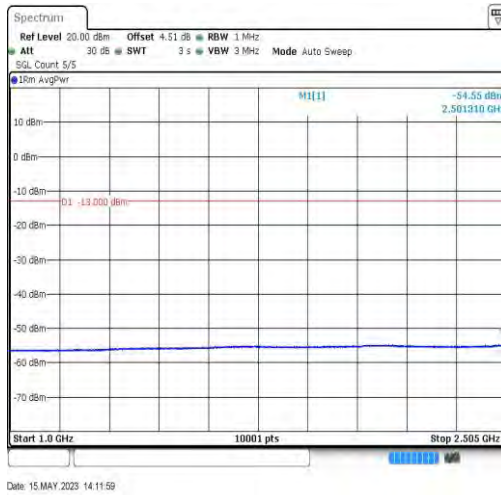
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-20000~27000MHz

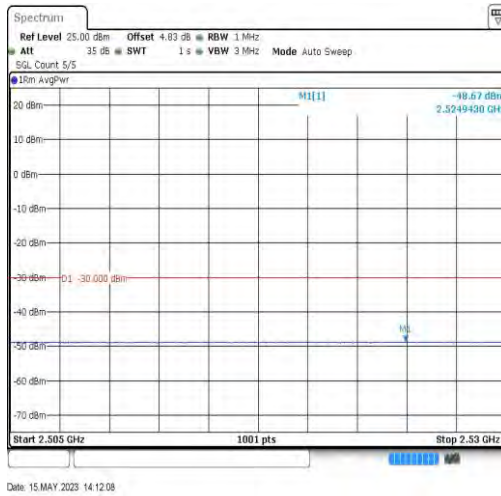


41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-1000~2505MHz

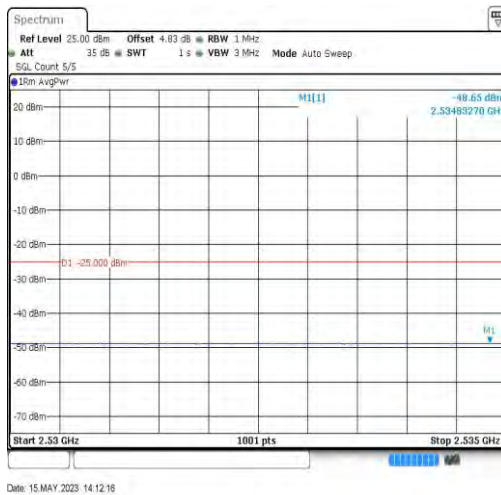


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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-2505~2530MHz



41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-2530~2535MHz



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Field Strength of Spurious Radiation

Test Band = LTE CA_41C 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	3962.2981	48.32	-44.18	29.88	-61.24	-25.00	36.24	173	231	Horizontal
2	5677.6339	47.83	-41.21	32.50	-56.14	-25.00	31.14	379	200	Horizontal
3	7867.7434	45.72	-37.62	36.69	-50.47	-25.00	25.47	286	113	Horizontal
4	11038.1519	45.60	-37.21	40.14	-46.73	-25.00	21.73	211	42	Horizontal
5	15198.6099	46.23	-35.34	39.71	-44.66	-25.00	19.66	192	10	Horizontal
6	17987.2494	46.33	-43.14	47.97	-44.10	-25.00	19.10	265	30	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	3986.2993	48.33	-44.17	29.83	-61.27	-25.00	36.27	103	46	Vertical
2	5688.1344	48.05	-41.18	32.50	-55.89	-25.00	30.89	270	109	Vertical
3	7860.993	45.69	-37.64	36.73	-50.48	-25.00	25.48	217	236	Vertical
4	11092.9046	45.76	-37.55	40.19	-46.86	-25.00	21.86	369	236	Vertical
5	15195.6098	46.31	-35.46	39.73	-44.68	-25.00	19.68	140	200	Vertical
6	17995.4998	46.02	-43.08	48.12	-44.20	-25.00	19.20	222	310	Vertical



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Test Band = LTE CA_41C 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	3968.2984	48.38	-44.18	29.86	-61.20	-25.00	36.20	396	180	Horizontal
2	5696.3848	47.82	-41.15	32.50	-56.09	-25.00	31.09	226	93	Horizontal
3	7842.2421	45.70	-37.72	36.77	-50.51	-25.00	25.51	178	156	Horizontal
4	11040.402	45.62	-37.23	40.14	-46.73	-25.00	21.73	224	216	Horizontal
5	15185.1093	46.61	-35.88	39.79	-44.74	-25.00	19.74	262	314	Horizontal
6	17984.2492	46.21	-43.16	47.92	-44.29	-25.00	19.29	241	84	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	3925.5463	48.42	-44.19	29.80	-61.23	-25.00	36.23	263	69	Vertical
2	5374.6187	47.54	-42.07	32.35	-57.44	-25.00	32.44	321	34	Vertical
3	7989.2495	45.74	-37.28	36.40	-50.40	-25.00	25.40	266	252	Vertical
4	10948.1474	45.49	-37.21	40.15	-46.83	-25.00	21.83	210	132	Vertical
5	15194.1097	46.44	-35.52	39.74	-44.60	-25.00	19.60	226	204	Vertical
6	18000	45.61	-43.04	48.20	-44.49	-25.00	19.49	216	93	Vertical



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Test Band = LTE CA_41C 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	3993.0497	48.66	-44.17	29.81	-60.96	-25.00	35.96	164	275	Horizontal
2	5678.3839	48.05	-41.20	32.50	-55.91	-25.00	30.91	151	150	Horizontal
3	7440.972	46.38	-38.28	36.78	-50.38	-25.00	25.38	194	198	Horizontal
4	9902.5951	44.49	-35.03	38.60	-47.20	-25.00	22.20	305	16	Horizontal
5	13544.0272	45.89	-37.92	39.99	-47.30	-25.00	22.30	171	125	Horizontal
6	15220.361	46.25	-35.48	39.74	-44.75	-25.00	19.75	104	169	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	3910.5455	48.57	-44.20	29.74	-61.15	-25.00	36.15	212	282	Vertical
2	5514.1257	47.93	-41.79	32.34	-56.78	-25.00	31.78	263	123	Vertical
3	7407.9704	46.20	-38.28	36.72	-50.62	-25.00	25.62	101	88	Vertical
4	9904.0952	44.20	-35.07	38.60	-47.53	-25.00	22.53	256	76	Vertical
5	10968.3984	45.33	-37.12	40.13	-46.92	-25.00	21.92	319	274	Vertical
6	15193.3597	46.56	-35.55	39.74	-44.51	-25.00	19.51	116	207	Vertical



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Test Band = LTE CA_41C 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	3903.7952	48.46	-44.20	29.72	-61.28	-25.00	36.28	147	291	Horizontal
2	5688.8844	47.98	-41.17	32.50	-55.95	-25.00	30.95	132	44	Horizontal
3	7419.971	46.05	-38.28	36.74	-50.75	-25.00	25.75	280	358	Horizontal
4	10956.3978	45.60	-37.18	40.14	-46.70	-25.00	21.70	267	155	Horizontal
5	15218.1109	46.32	-35.45	39.74	-44.65	-25.00	19.65	387	175	Horizontal
6	17994.7497	46.15	-43.08	48.11	-44.08	-25.00	19.08	234	155	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	3963.0482	48.52	-44.18	29.87	-61.05	-25.00	36.05	261	165	Vertical
2	5163.8582	48.34	-42.54	31.83	-57.63	-25.00	32.63	109	292	Vertical
3	7711.7356	45.93	-37.60	36.71	-50.22	-25.00	25.22	149	145	Vertical
4	10957.1479	45.52	-37.17	40.14	-46.77	-25.00	21.77	398	30	Vertical
5	15203.1102	46.15	-35.32	39.71	-44.72	-25.00	19.72	218	292	Vertical
6	17999.25	46.03	-43.05	48.19	-44.09	-25.00	19.09	347	6	Vertical



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Test Band = LTE CA_41C 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	3675.0338	48.57	-44.47	29.30	-61.86	-25.00	36.86	175	350	Horizontal
2	5132.3566	48.59	-42.53	31.69	-57.51	-25.00	32.51	297	216	Horizontal
3	7693.7347	45.57	-37.64	36.77	-50.56	-25.00	25.56	376	358	Horizontal
4	11094.4047	46.10	-37.56	40.19	-46.53	-25.00	21.53	149	129	Horizontal
5	15173.1087	47.03	-36.35	39.86	-44.72	-25.00	19.72	227	101	Horizontal
6	17996.2498	45.91	-43.07	48.13	-44.29	-25.00	19.29	388	113	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	48.40	-44.17	29.81	-61.22	-25.00	36.22	325	338	Vertical
2	5706.8853	47.71	-41.16	32.50	-56.21	-25.00	31.21	236	318	Vertical
3	7989.2495	45.60	-37.28	36.40	-50.54	-25.00	25.54	155	29	Vertical
4	11067.4034	45.59	-37.39	40.17	-46.89	-25.00	21.89	330	311	Vertical
5	15210.6105	46.56	-35.39	39.72	-44.37	-25.00	19.37	299	37	Vertical
6	17995.4998	45.92	-43.08	48.12	-44.30	-25.00	19.30	298	318	Vertical



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Test Band = LTE CA_41C 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	3963.0482	48.47	-44.18	29.87	-61.10	-25.00	36.10	383	275	Horizontal
2	5718.8859	47.93	-41.19	32.50	-56.02	-25.00	31.02	360	271	Horizontal
3	7454.4727	46.00	-38.29	36.81	-50.74	-25.00	25.74	396	184	Horizontal
4	11019.401	45.54	-37.10	40.12	-46.70	-25.00	21.70	265	124	Horizontal
5	13574.7787	46.06	-37.88	40.05	-47.03	-25.00	22.03	315	358	Horizontal
6	15196.3598	46.31	-35.43	39.72	-44.66	-25.00	19.66	222	101	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	3942.7971	48.52	-44.19	29.87	-61.06	-25.00	36.06	327	93	Vertical
2	5080.604	48.24	-42.56	31.54	-58.04	-25.00	33.04	344	46	Vertical
3	7685.4843	45.95	-37.74	36.74	-50.31	-25.00	25.31	119	10	Vertical
4	10962.3981	45.48	-37.15	40.14	-46.79	-25.00	21.79	221	0	Vertical
5	15195.6098	46.28	-35.46	39.73	-44.71	-25.00	19.71	101	319	Vertical
6	17993.9997	46.09	-43.09	48.09	-44.17	-25.00	19.17	369	240	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) - Pre-amplifier (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
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VN	NT	-0.30	-0.000116	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VL	NT	-11.50	-0.004452	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VH	NT	-10.20	-0.003949	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-30	-9.20	-0.003562	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-20	-8.80	-0.003407	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-10	-10.70	-0.004142	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	0	-11.70	-0.004529	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	10	-6.10	-0.002362	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	20	-6.30	-0.002439	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	30	-6.80	-0.002632	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	40	-7.00	-0.002710	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	50	-9.50	-0.003678	PASS

---End of Attachment---



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