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Appendix B.15

LTE CA_5B



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Effective (Isotropic) Radiated Power Output Data**Test Result**

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	1RB#0-0RB#0	23.84	19.39	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	22.12	17.67	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	1RB#0-0RB#0	23.87	19.42	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	22.08	17.63	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	1RB#0-0RB#0	24.02	19.57	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	22.02	17.57	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	1RB#0-0RB#0	23.1	18.65	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	21.17	16.72	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	1RB#0-0RB#0	23.25	18.8	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	20.94	16.49	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	1RB#0-0RB#0	23.16	18.71	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	20.99	16.54	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	1RB#0-0RB#0	22.11	17.66	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	21.07	16.62	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	1RB#0-0RB#0	22.18	17.73	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	21.12	16.67	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	1RB#0-0RB#0	22.16	17.71	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	21.07	16.62	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	1RB#0-0RB#0	19.05	14.6	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	19.04	14.59	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	1RB#0-0RB#0	18.99	14.54	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	19.08	14.63	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	1RB#0-0RB#0	19.17	14.72	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	18.95	14.5	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	1RB#0-0RB#0	23.79	19.34	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	22.18	17.73	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	1RB#0-0RB#0	23.87	19.42	38.45	PASS



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5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	22.19	17.74	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	1RB#0-0RB#0	23.82	19.37	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	22.25	17.8	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	1RB#0-0RB#0	23.13	18.68	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	21.22	16.77	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	1RB#0-0RB#0	23.23	18.78	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	21.18	16.73	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	1RB#0-0RB#0	23.25	18.8	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	21.17	16.72	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	1RB#0-0RB#0	22.09	17.64	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	21.16	16.71	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	1RB#0-0RB#0	22.26	17.81	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	21.03	16.58	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	1RB#0-0RB#0	22.15	17.7	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	21.06	16.61	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	1RB#0-0RB#0	19	14.55	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	19.16	14.71	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	1RB#0-0RB#0	18.95	14.5	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	19.1	14.65	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	1RB#0-0RB#0	19.05	14.6	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	19.25	14.8	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	15RB#0-25RB#0	24.25	19.8	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20416-20455	1RB#0-0RB#0	24.24	19.79	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	24.24	19.79	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	1RB#0-0RB#0	24.11	19.66	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	15RB#0-25RB#0	24.17	19.72	38.45	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20586-20625	1RB#0-0RB#0	24.07	19.62	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	15RB#0-25RB#0	24.11	19.66	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20416-20455	1RB#0-0RB#0	24.5	20.05	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	24.11	19.66	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	1RB#0-0RB#0	24.36	19.91	38.45	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	15RB#0-25RB#0	24.18	19.73	38.45	PASS



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5-5	3MHz-5MHz	16QAM-16QAM	20586-20625	1RB#0-0RB#0	24.47	20.02	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	15RB#0-25RB#0	24.32	19.87	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20416-20455	1RB#0-0RB#0	24.6	20.15	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	24.3	19.85	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	1RB#0-0RB#0	24.53	20.08	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	15RB#0-25RB#0	24.37	19.92	38.45	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20586-20625	1RB#0-0RB#0	24.35	19.9	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	15RB#0-25RB#0	24.2	19.75	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20416-20455	1RB#0-0RB#0	24.33	19.88	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	24.24	19.79	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	1RB#0-0RB#0	24.34	19.89	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	15RB#0-25RB#0	24.3	19.85	38.45	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20586-20625	1RB#0-0RB#0	24.41	19.96	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	1RB#0-0RB#0	23.98	19.53	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	22.08	17.63	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	1RB#0-0RB#0	23.68	19.23	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	22.02	17.57	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	1RB#0-0RB#0	23.78	19.33	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	22.16	17.71	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	1RB#0-0RB#0	23.2	18.75	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	21.08	16.63	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	1RB#0-0RB#0	23.18	18.73	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	21.06	16.61	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	1RB#0-0RB#0	23.01	18.56	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	21.18	16.73	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	1RB#0-0RB#0	22.29	17.84	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	21.14	16.69	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	1RB#0-0RB#0	21.94	17.49	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	21.11	16.66	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	1RB#0-0RB#0	22.2	17.75	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	21.17	16.72	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	1RB#0-0RB#0	18.88	14.43	38.45	PASS



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5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	19.02	14.57	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	1RB#0-0RB#0	18.94	14.49	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	19.17	14.72	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	1RB#0-0RB#0	19.12	14.67	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	19.09	14.64	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	1RB#0-0RB#0	23.86	19.41	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20425-20464	25RB#0-15RB#0	22.01	17.56	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	1RB#0-0RB#0	23.91	19.46	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	22.05	17.6	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	1RB#0-0RB#0	23.88	19.43	38.45	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20595-20634	25RB#0-15RB#0	22.06	17.61	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	1RB#0-0RB#0	23.17	18.72	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20425-20464	25RB#0-15RB#0	21.08	16.63	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	1RB#0-0RB#0	23.14	18.69	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	20.99	16.54	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	1RB#0-0RB#0	23.19	18.74	38.45	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20595-20634	25RB#0-15RB#0	20.97	16.52	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	1RB#0-0RB#0	22.19	17.74	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20425-20464	25RB#0-15RB#0	21.03	16.58	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	1RB#0-0RB#0	22.31	17.86	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	20.94	16.49	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	1RB#0-0RB#0	22.3	17.85	38.45	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20595-20634	25RB#0-15RB#0	20.95	16.5	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	1RB#0-0RB#0	18.98	14.53	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20425-20464	25RB#0-15RB#0	18.96	14.51	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	1RB#0-0RB#0	19.11	14.66	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	19.09	14.64	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	1RB#0-0RB#0	19.11	14.66	38.45	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20595-20634	25RB#0-15RB#0	18.95	14.5	38.45	PASS



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Peak-to-Average Ratio(CCDF)**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	5.58	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	5.66	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	5.52	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	6.20	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	6.22	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	6.14	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	6.60	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	6.52	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	6.48	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	6.88	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	6.72	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	6.88	13	PASS



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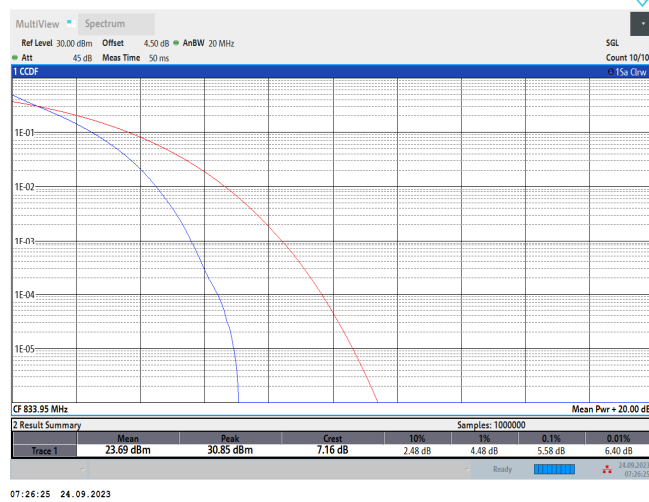
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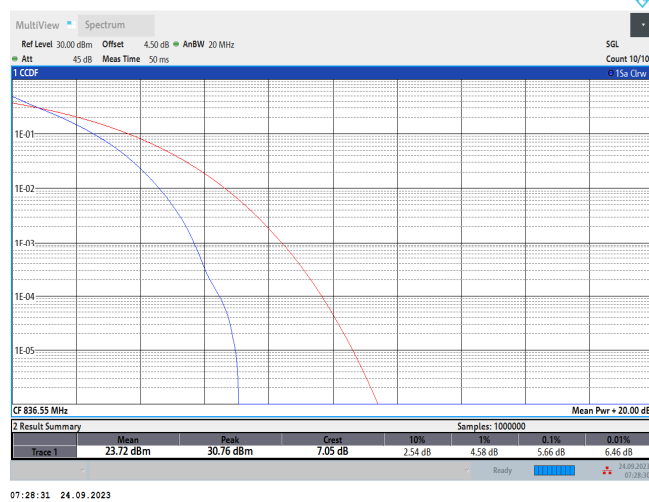
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Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0



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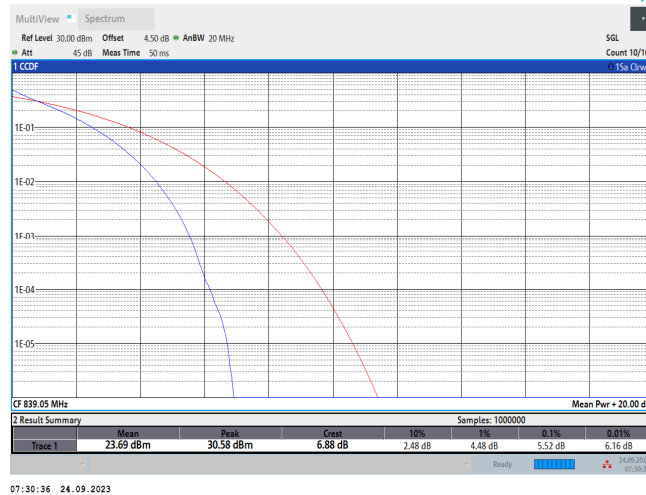
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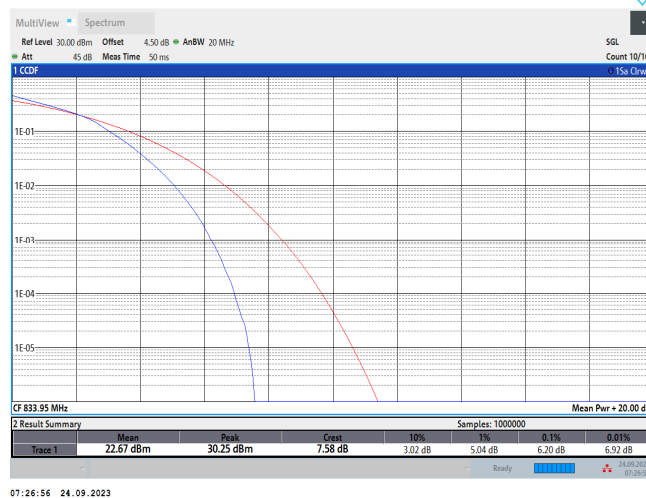
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5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



5-5-10MHz-10MHz-16QAM-16QAM-20450-20549-50RB#0-50RB#0



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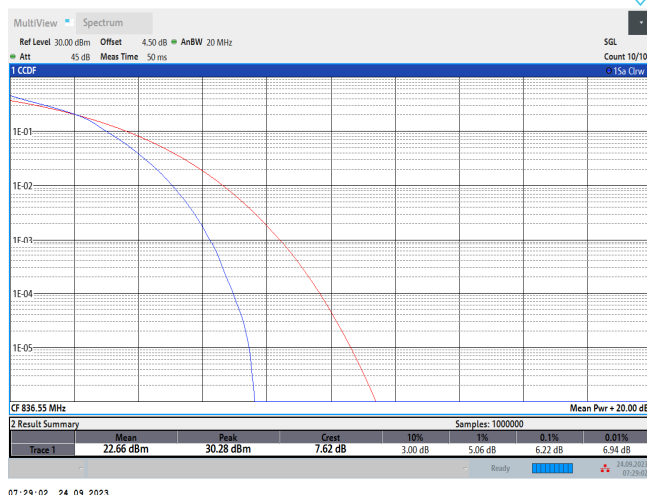
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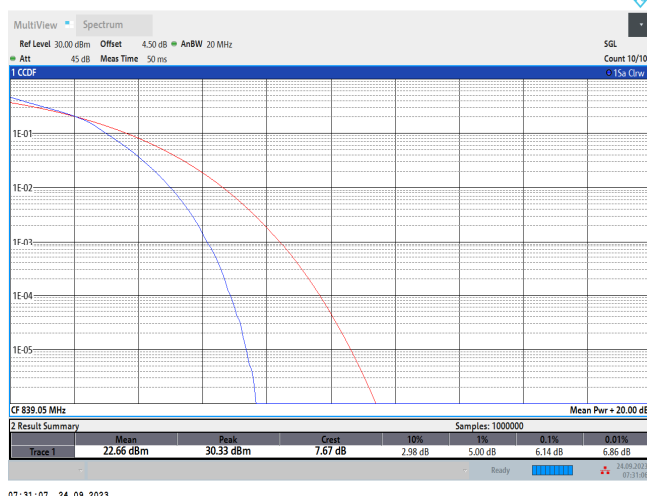
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5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



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5-5-10MHz-10MHz-16QAM-16QAM-20501-20600-50RB#0-50RB#0



07:31:07 24.09.2023



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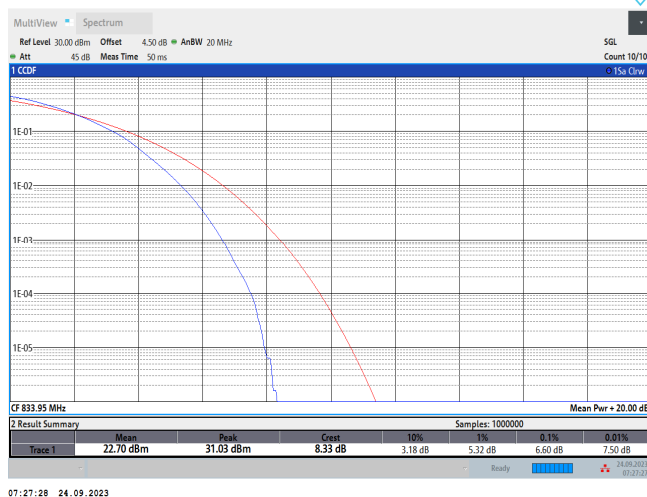
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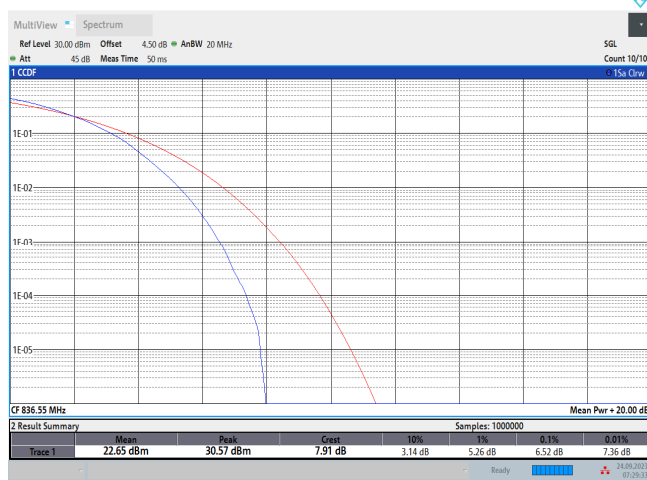
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5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



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5-5-10MHz-10MHz-64QAM-64QAM-20476-20575-50RB#0-50RB#0



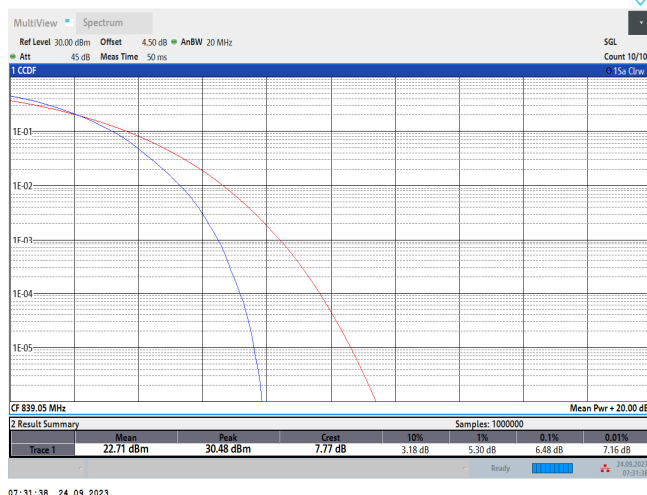
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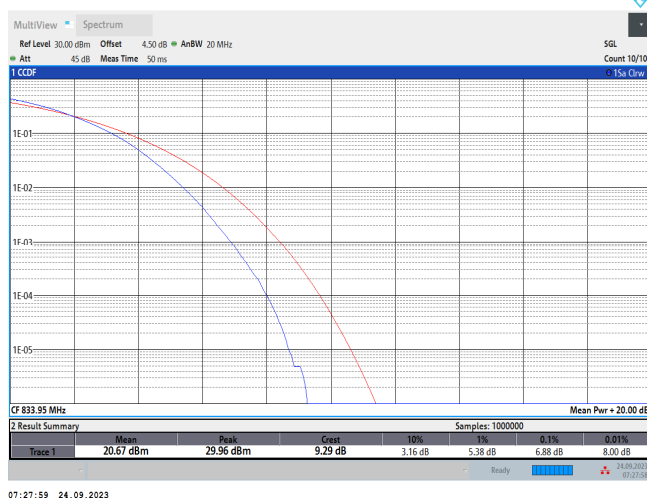
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5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



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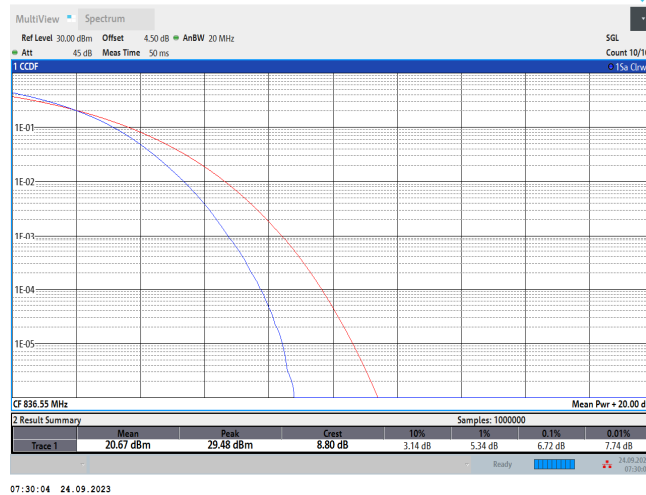


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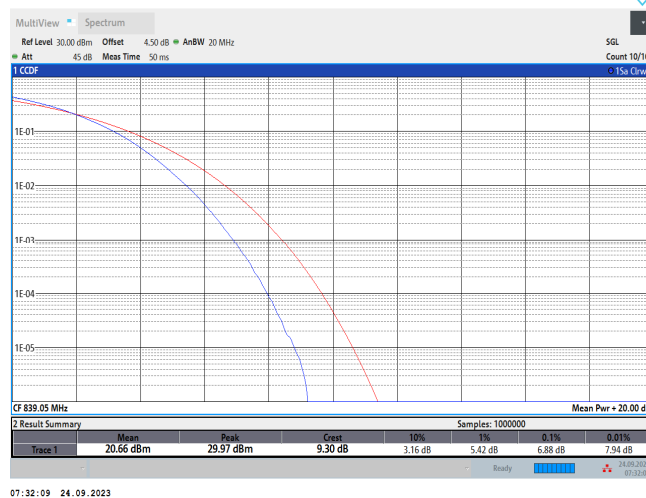
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5-5-10MHz-10MHz-256QAM-256QAM-20501-20600-50RB#0-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	18.862	23.88	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	18.815	24.68	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	18.818	23.68	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	18.779	20.76	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	13.862	16.26	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	13.851	15.90	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	13.826	14.94	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	13.87	15.54	PASS
5-5	3MHz-5MHz	QPSK-QPSK	20501-20540	15RB#0-25RB#0	7.471	8.85	PASS
5-5	3MHz-5MHz	16QAM-16QAM	20501-20540	15RB#0-25RB#0	7.493	9.38	PASS
5-5	3MHz-5MHz	64QAM-64QAM	20501-20540	15RB#0-25RB#0	7.472	9.02	PASS
5-5	3MHz-5MHz	256QAM-256QAM	20501-20540	15RB#0-25RB#0	7.498	9.01	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	13.846	16.05	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	13.797	15.54	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	13.801	14.64	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	13.765	14.67	PASS
5-5	5MHz-3MHz	QPSK-QPSK	20510-20549	25RB#0-15RB#0	7.504	8.13	PASS
5-5	5MHz-3MHz	16QAM-16QAM	20510-20549	25RB#0-15RB#0	7.529	9.07	PASS
5-5	5MHz-3MHz	64QAM-64QAM	20510-20549	25RB#0-15RB#0	7.519	10.82	PASS
5-5	5MHz-3MHz	256QAM-256QAM	20510-20549	25RB#0-15RB#0	7.523	10.80	PASS



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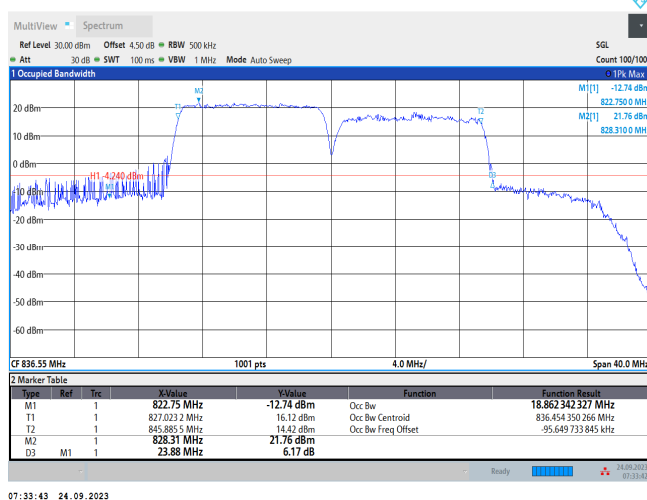
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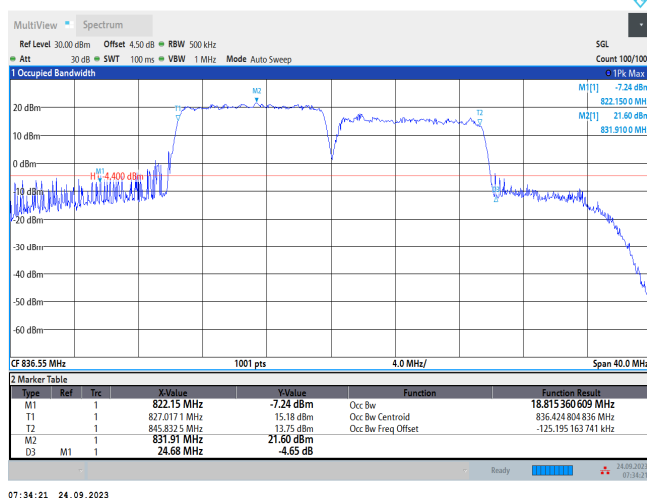
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Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-50RB#0-50RB#0



5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0

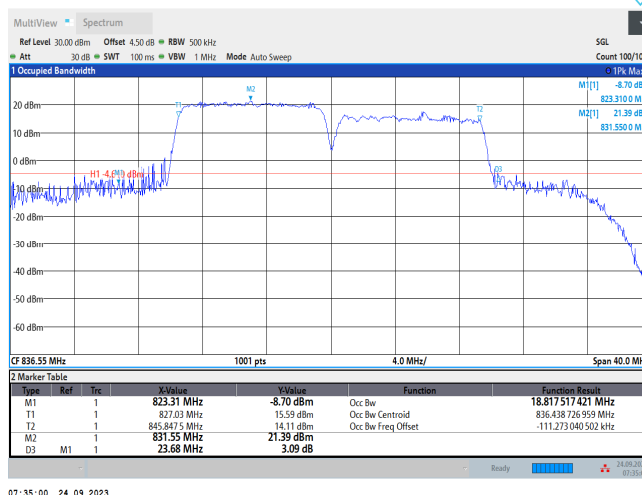


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5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



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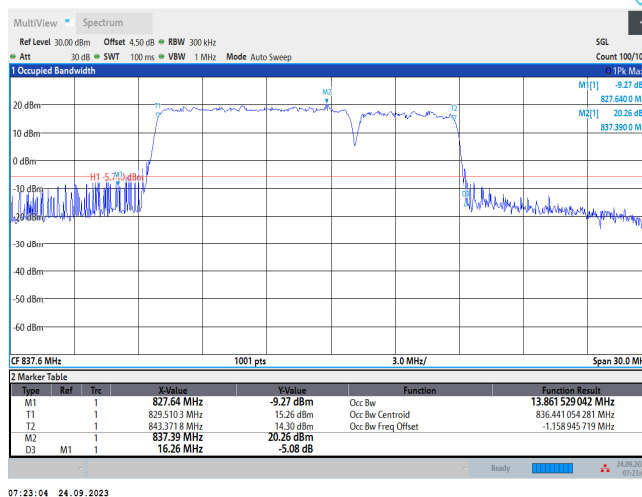
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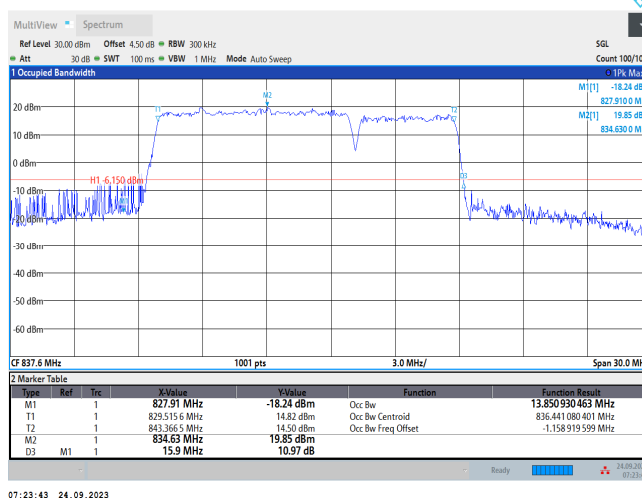
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5-5-10MHz-5MHz-QPSK-QPSK-20500-20572-50RB#0-25RB#0



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5-5-10MHz-5MHz-16QAM-16QAM-20500-20572-50RB#0-25RB#0



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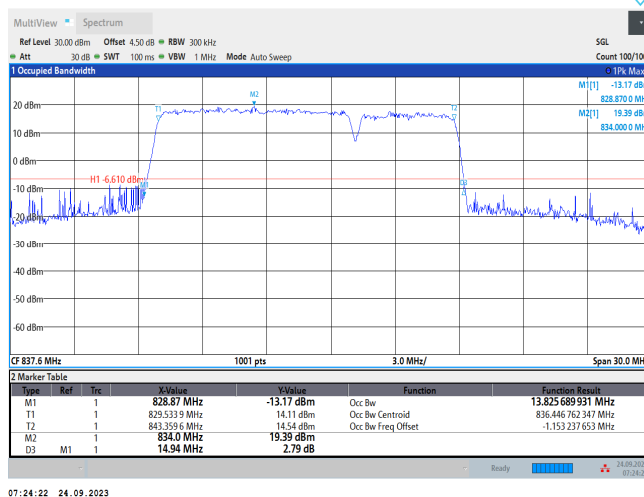
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5-5-10MHz-5MHz-256QAM-256QAM-20500-20572-50RB#0-25RB#0



07:25:00 24.09.2023



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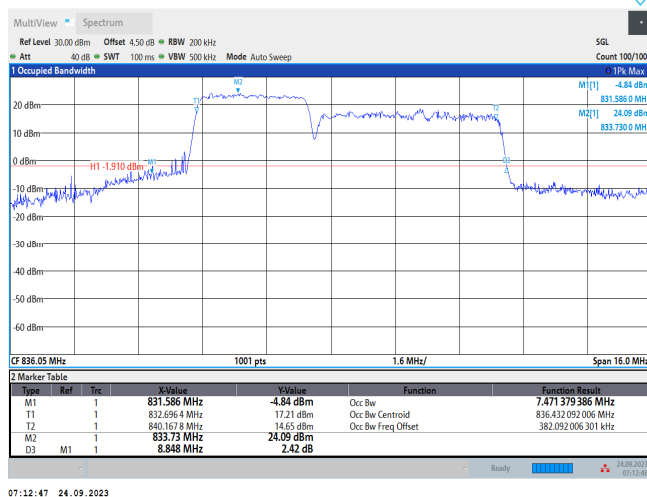
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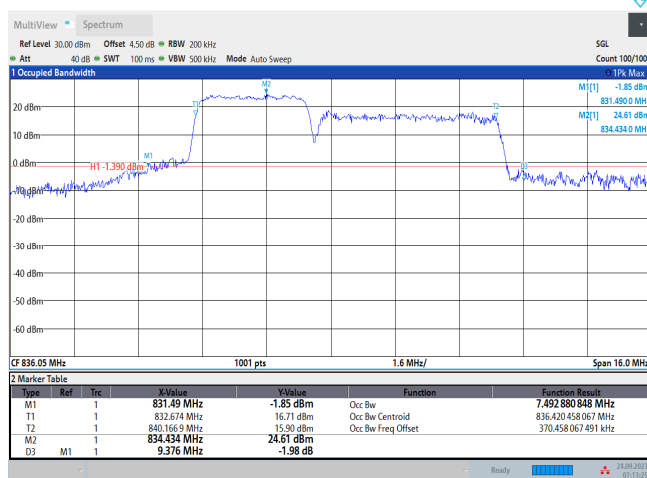
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5-5-3MHz-5MHz-QPSK-QPSK-20501-20540-15RB#0-25RB#0



07:12:47 24.09.2023

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07:13:26 24.09.2023



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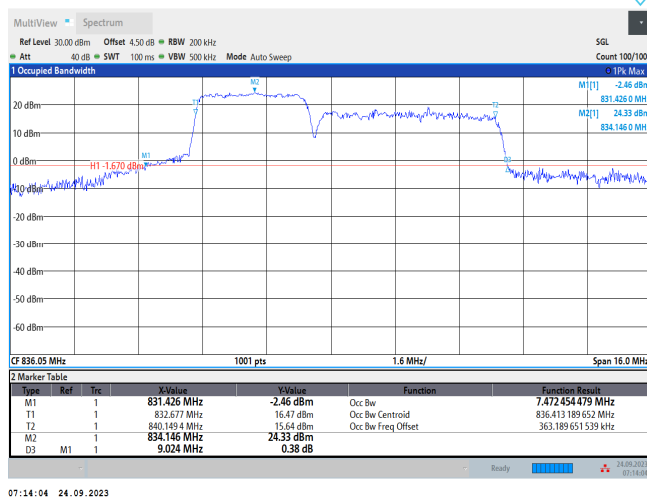
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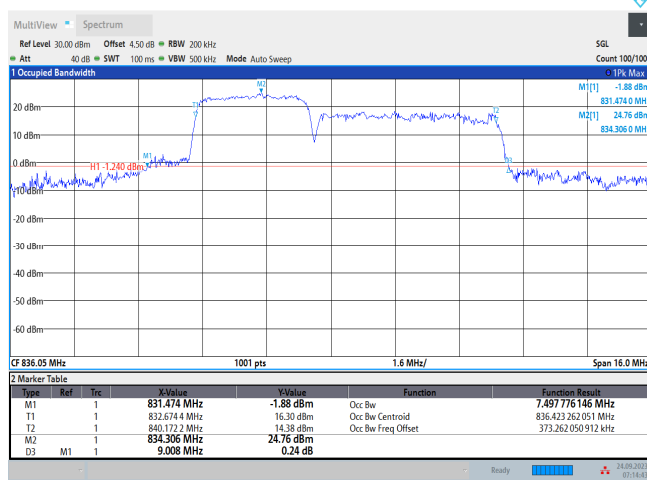
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07:14:04 24.09.2023

5-5-3MHz-5MHz-256QAM-256QAM-20501-20540-15RB#0-25RB#0



07:14:43 24.09.2023



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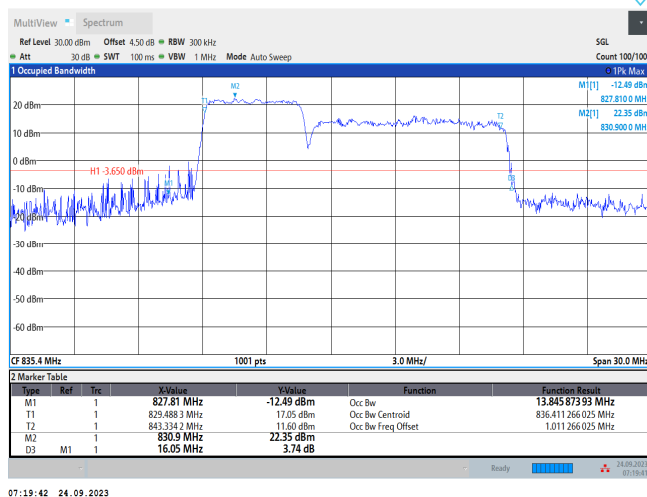
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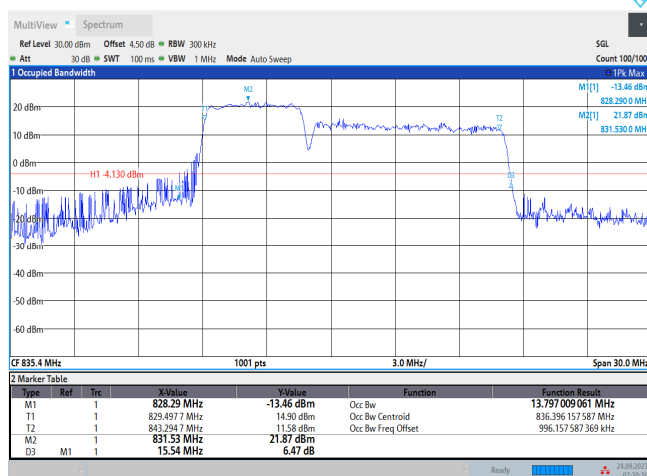
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07:20:21 24.09.2023



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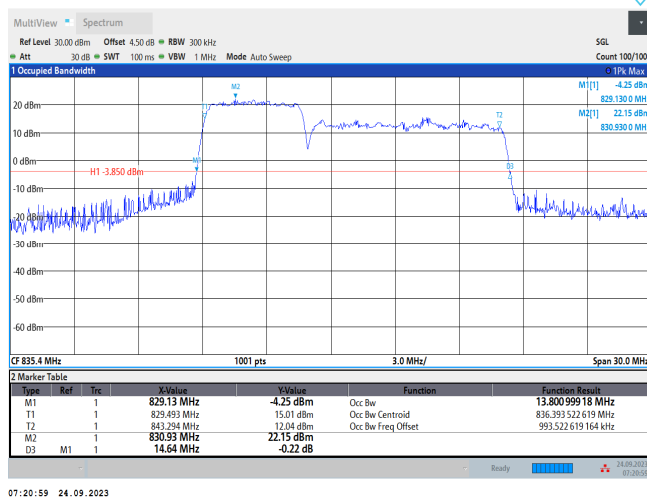
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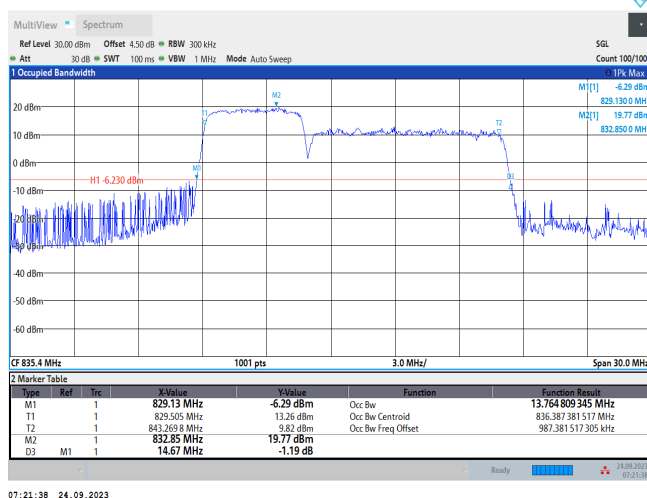
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5-5-5MHz-10MHz-256QAM-256QAM-20478-20550-25RB#0-50RB#0



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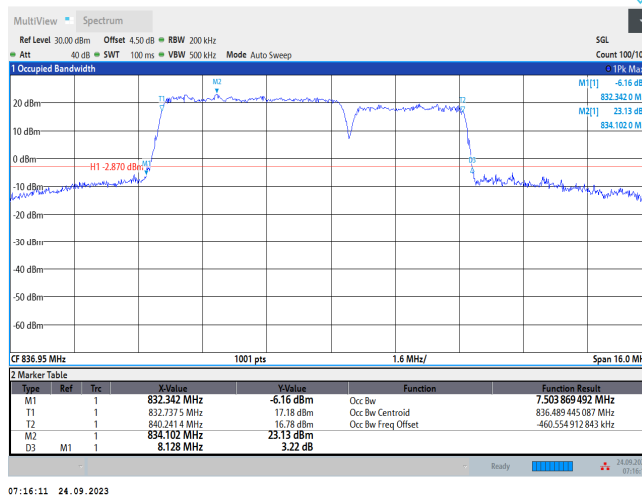
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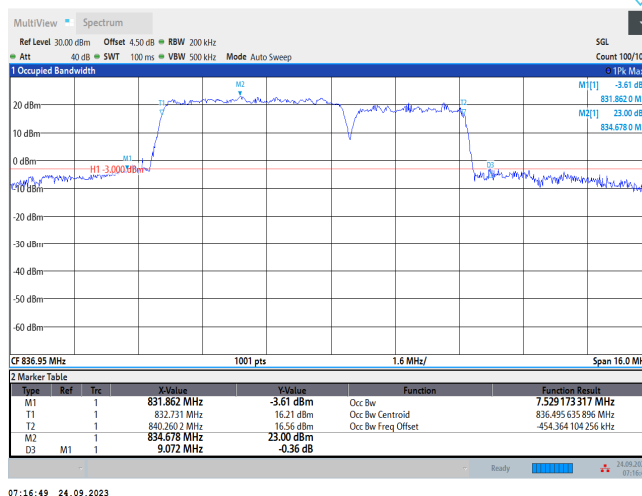
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5-5-5MHz-3MHz-QPSK-QPSK-20510-20549-25RB#0-15RB#0



07:16:11 24.09.2023

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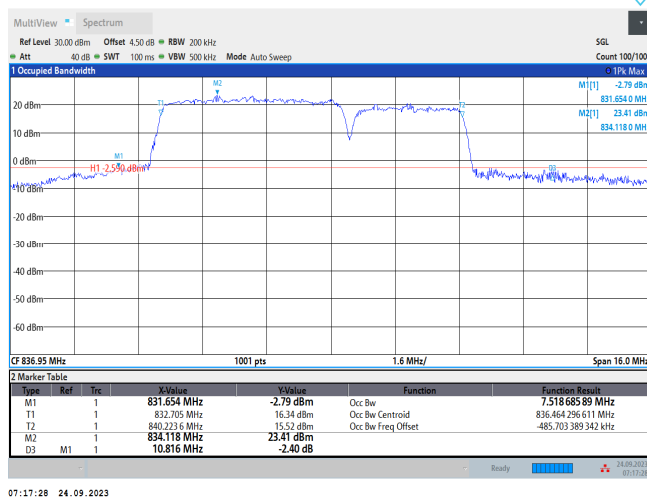
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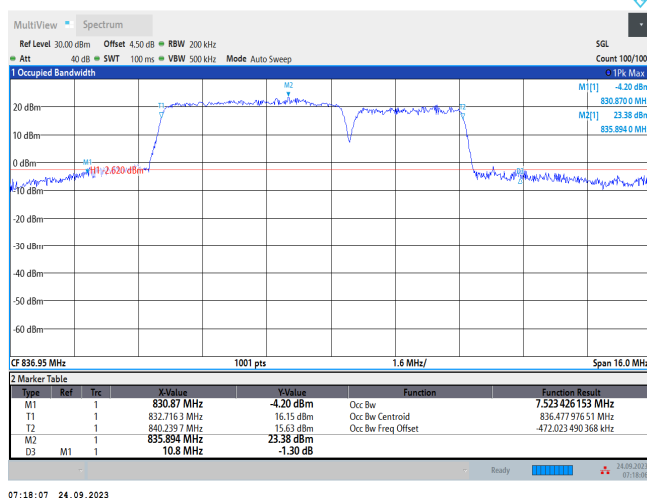
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5-5-5MHz-3MHz-256QAM-256QAM-20510-20549-25RB#0-15RB#0



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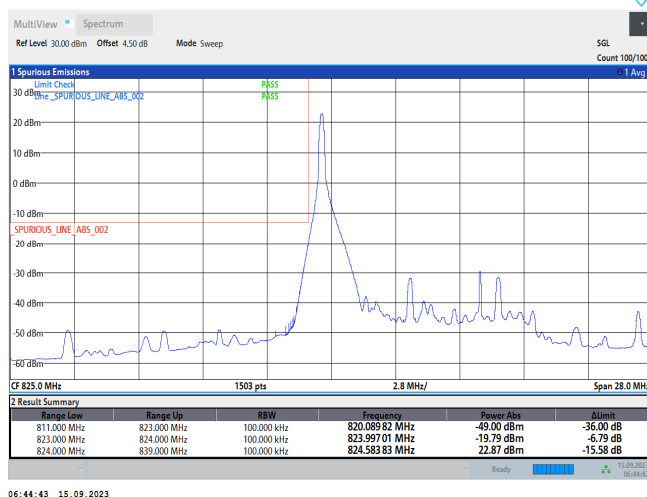
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Band Edge

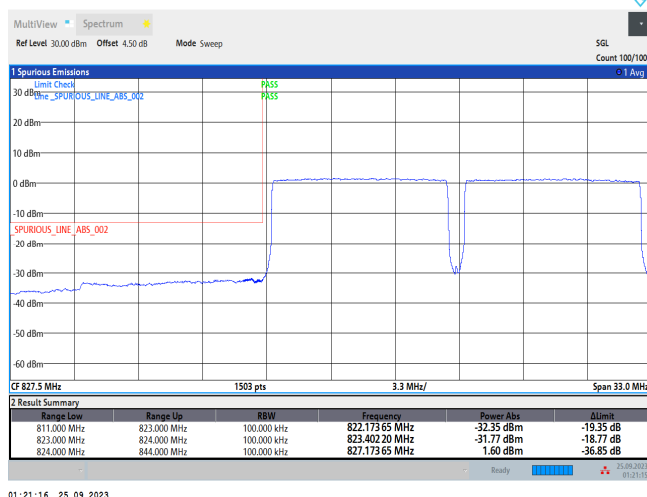
Test Graphs

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5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-50RB#0-50RB#0



01:21:16 25.09.2023



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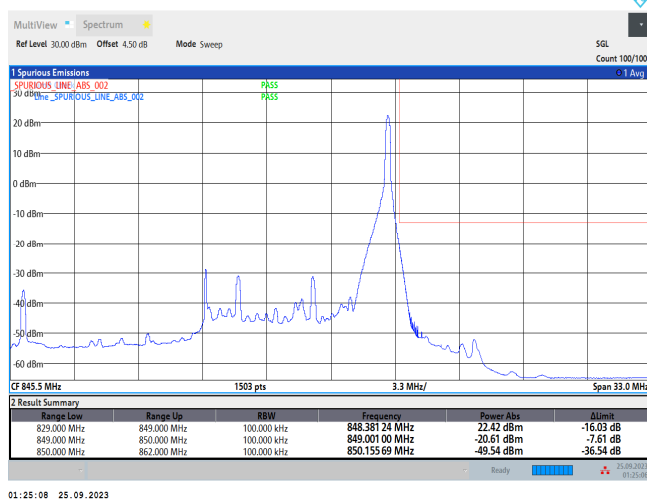
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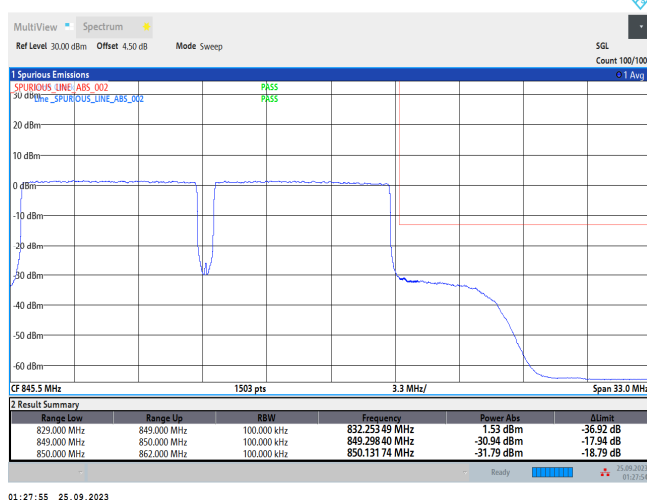
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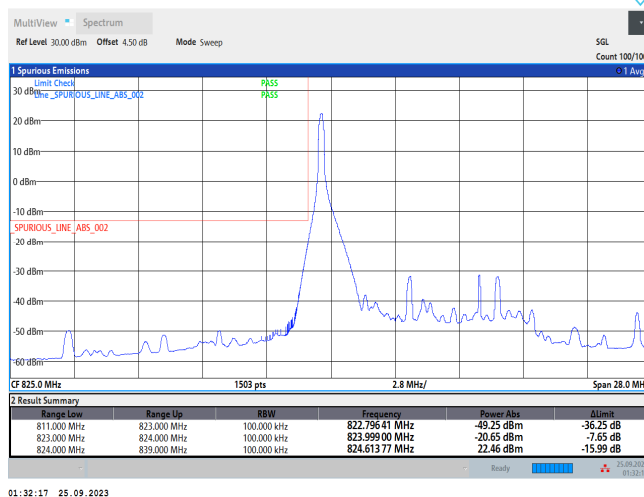
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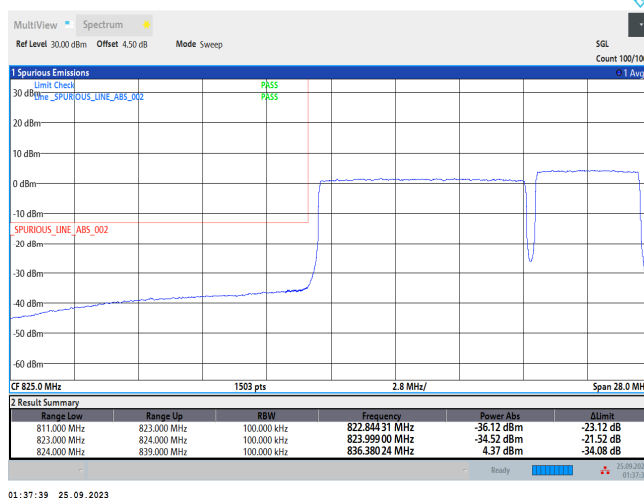
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5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



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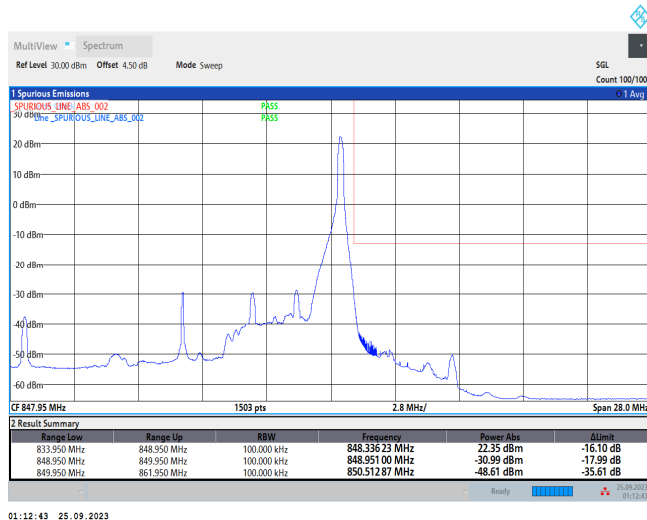
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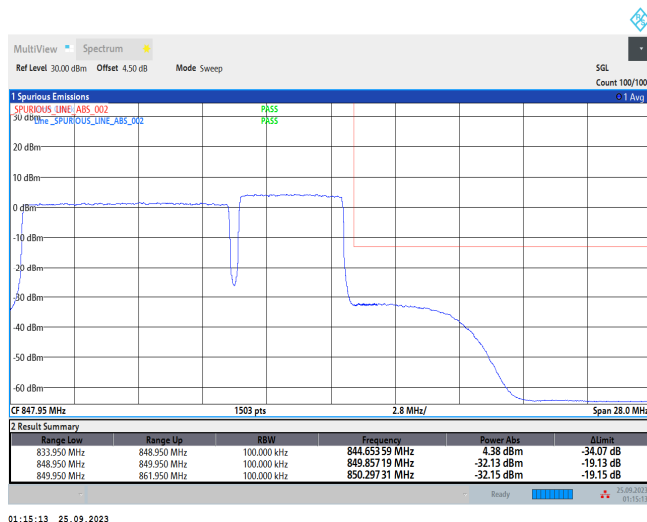
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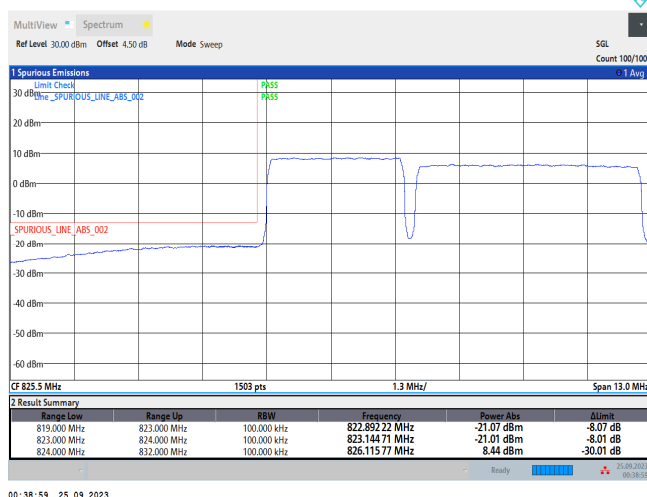
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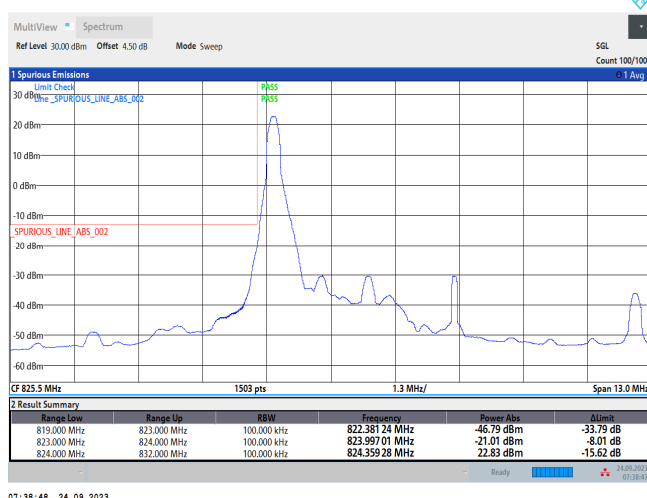
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5-5-3MHz-5MHz-QPSK-QPSK-20416-20455-1RB#0-0RB#0



07:38:48 24.09.2023



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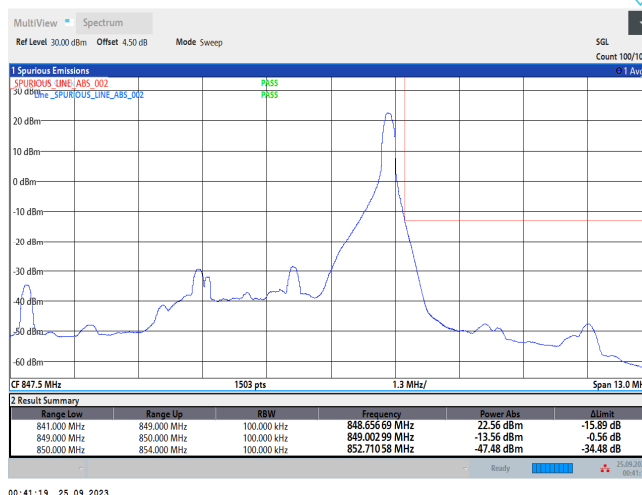
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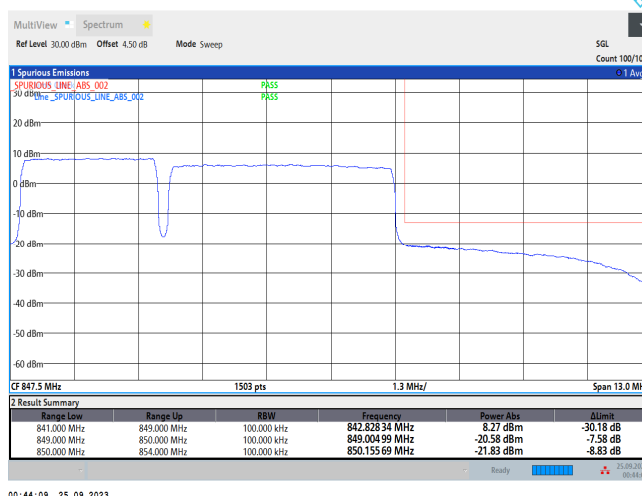
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5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-0RB#0-1RB#24



00:41:19 25.09.2023

5-5-3MHz-5MHz-QPSK-QPSK-20586-20625-15RB#0-25RB#0



00:44:09 25.09.2023



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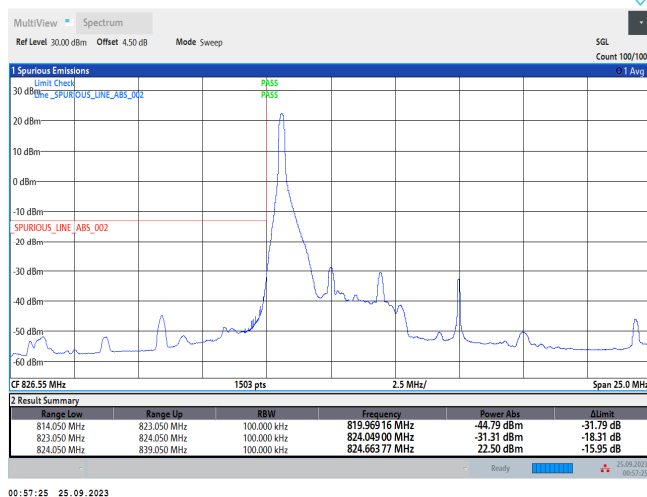
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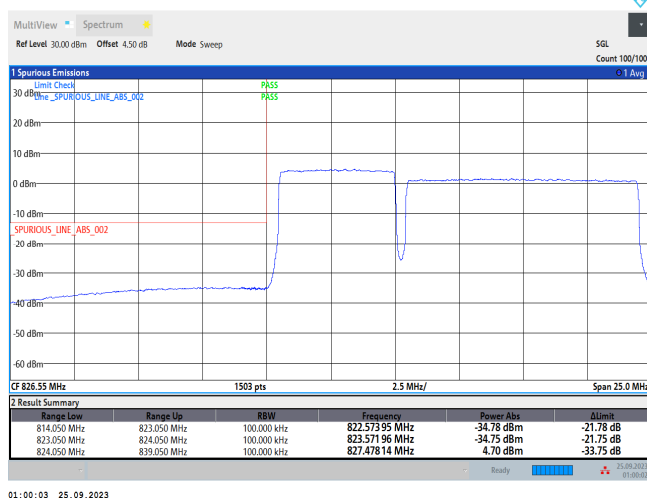
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5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



00:57:25 25.09.2023

5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



01:00:03 25.09.2023



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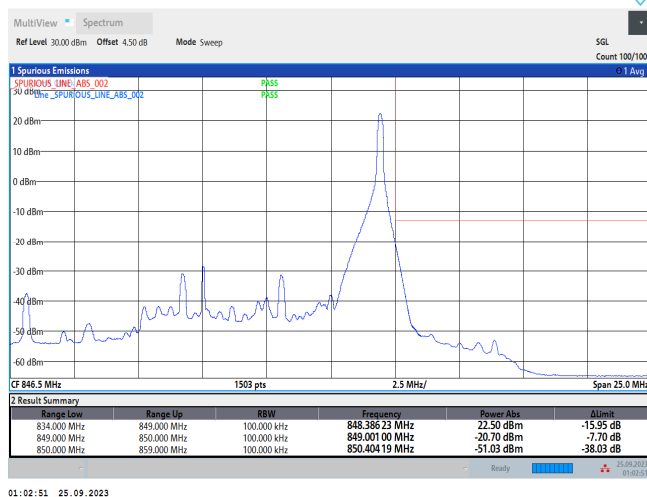
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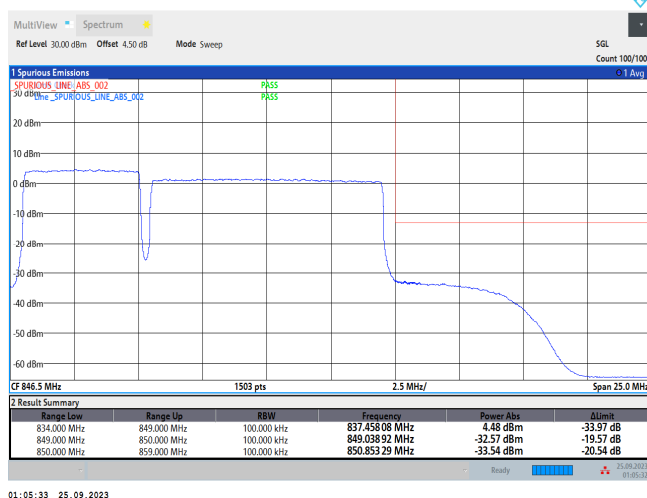
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5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-0RB#0-1RB#49



01:02:51 25.09.2023

5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



01:05:33 25.09.2023



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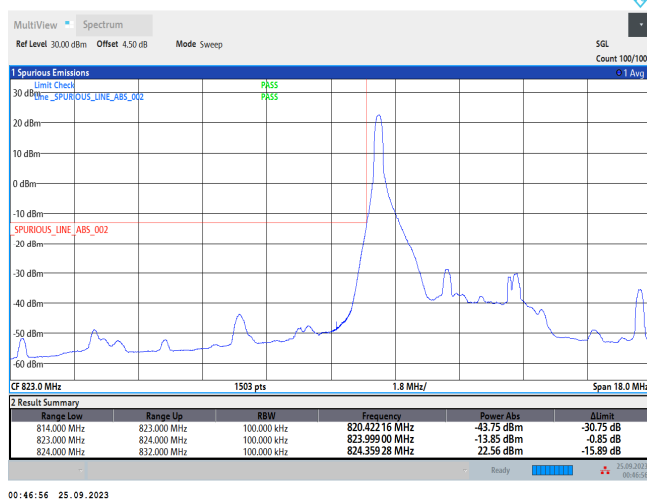
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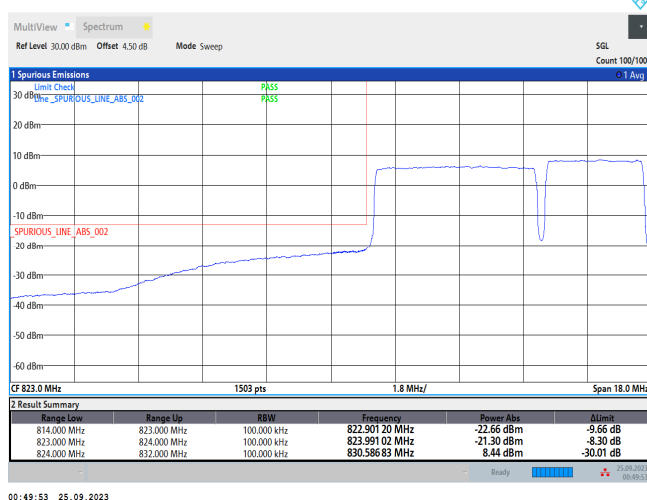
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5-5MHz-3MHz-QPSK-QPSK-20425-20464-1RB#0-0RB#0



00:46:56 25.09.2023

5-5MHz-3MHz-QPSK-QPSK-20425-20464-25RB#0-15RB#0



00:49:53 25.09.2023



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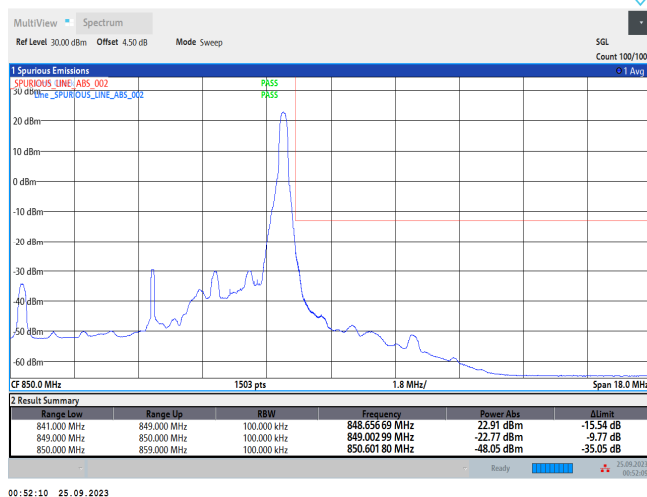
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5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-0RB#0-1RB#14



00:52:10 25.09.2023

5-5-5MHz-3MHz-QPSK-QPSK-20595-20634-25RB#0-15RB#0



00:54:41 25.09.2023



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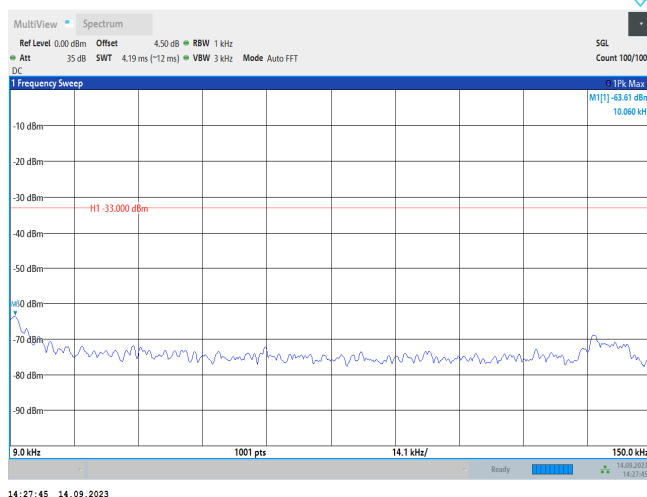
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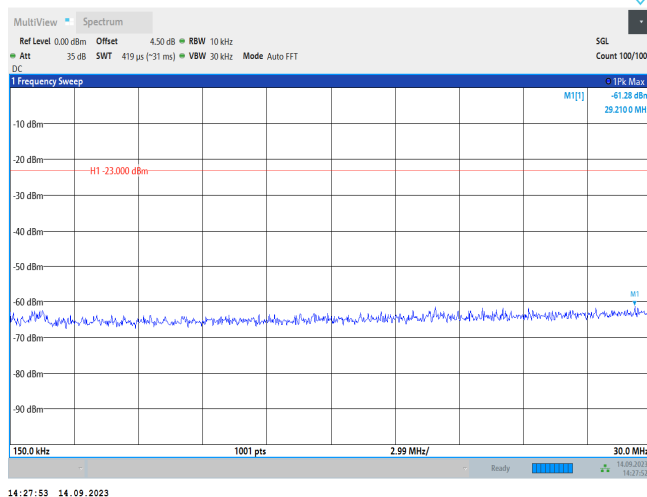
Conducted Spurious Emission

Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-0.15~30MHz

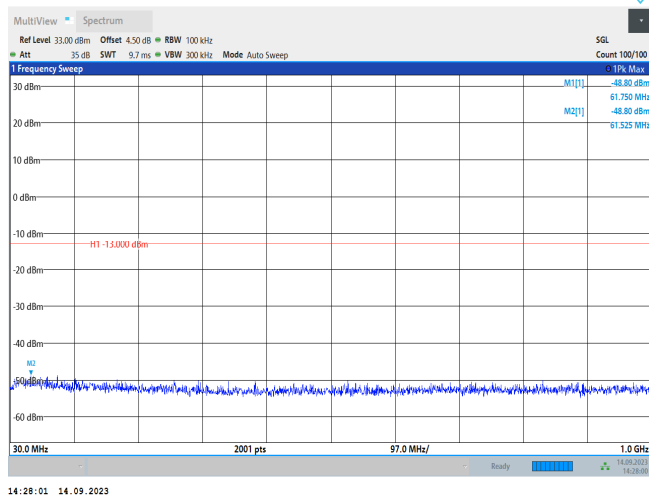


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Rev.: 01

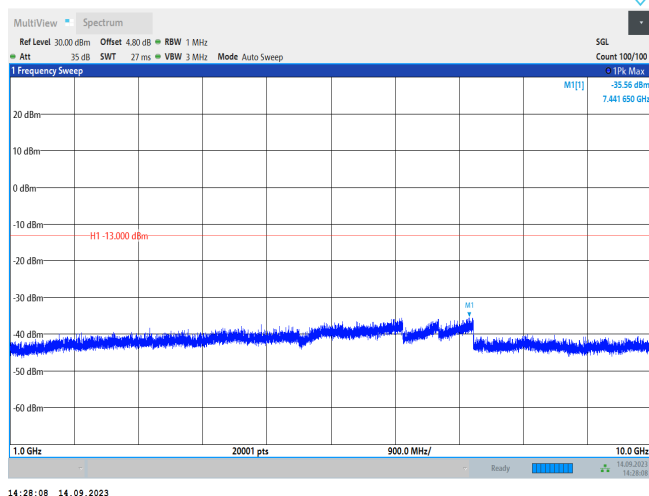
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5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-30~1000MHz



14:28:01 14.09.2023

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-1000~10000MHz



14:28:08 14.09.2023

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Field Strength of Spurious Radiation

Test Band = LTE Band CA 5_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2476	48.04	-49.04	27.27	-68.99	-13.00	55.99	Horizontal
2	1649.18	45.83	-49.83	25.30	-73.96	-13.00	60.96	Horizontal
3	3298.36	45.37	-48.63	28.62	-69.90	-13.00	56.90	Horizontal
4	4122.95	43.87	-48.28	29.62	-70.05	-13.00	57.05	Horizontal
5	4947.54	43.07	-48.07	31.37	-68.89	-13.00	55.89	Horizontal
6	5772.13	43.53	-47.66	32.75	-66.63	-13.00	53.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	45.42	-49.83	25.30	-74.37	-13.00	61.37	Vertical
2	2473.77	44.37	-49.05	27.27	-72.67	-13.00	59.67	Vertical
3	3298.36	45.08	-48.63	28.62	-70.19	-13.00	57.19	Vertical
4	4122.95	43.70	-48.28	29.62	-70.22	-13.00	57.22	Vertical
5	4947.54	43.82	-48.07	31.37	-68.14	-13.00	55.14	Vertical
6	5772.13	43.51	-47.66	32.75	-66.65	-13.00	53.65	Vertical



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Test Band = LTE Band CA 5_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	50.23	-49.79	25.36	-69.47	-13.00	56.47	Horizontal
2	2496.27	44.38	-48.92	27.30	-72.50	-13.00	59.50	Horizontal
3	3328.36	44.83	-48.65	28.63	-70.45	-13.00	57.45	Horizontal
4	4160.45	43.71	-48.32	29.69	-70.18	-13.00	57.18	Horizontal
5	4992.54	43.63	-47.97	31.48	-68.12	-13.00	55.12	Horizontal
6	5824.63	43.57	-47.55	32.76	-66.47	-13.00	53.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	49.15	-49.79	25.36	-70.55	-13.00	57.55	Vertical
2	2496.27	44.36	-48.92	27.30	-72.52	-13.00	59.52	Vertical
3	3328.36	44.94	-48.65	28.63	-70.34	-13.00	57.34	Vertical
4	4160.45	44.28	-48.32	29.69	-69.61	-13.00	56.61	Vertical
5	4992.54	44.00	-47.97	31.48	-67.75	-13.00	54.75	Vertical
6	5824.63	43.24	-47.55	32.76	-66.80	-13.00	53.80	Vertical



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Test Band = LTE Band CA 5_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	45.29	-49.76	25.42	-74.31	-13.00	61.31	Horizontal
2	2518.77	45.00	-48.95	27.35	-71.87	-13.00	58.87	Horizontal
3	3358.36	44.23	-48.67	28.64	-71.05	-13.00	58.05	Horizontal
4	4197.95	43.88	-48.36	29.76	-69.98	-13.00	56.98	Horizontal
5	5037.54	43.77	-47.94	31.59	-67.84	-13.00	54.84	Horizontal
6	5887.13	43.68	-47.11	32.78	-65.91	-13.00	52.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	44.68	-49.76	25.42	-74.92	-13.00	61.92	Vertical
2	2518.77	44.96	-48.95	27.35	-71.91	-13.00	58.91	Vertical
3	3358.36	44.62	-48.67	28.64	-70.66	-13.00	57.66	Vertical
4	4197.95	43.73	-48.36	29.76	-70.13	-13.00	57.13	Vertical
5	5037.54	44.33	-47.94	31.59	-67.28	-13.00	54.28	Vertical
6	5887.13	43.07	-47.11	32.78	-66.52	-13.00	53.52	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	VH	NT	-5.600000	-0.005426	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	VL	NT	-4.500000	-0.006354	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	VN	NT	-5.700000	-0.005264	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	50	-6.300000	-0.004253	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	40	-4.500000	-0.004351	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	30	-3.500000	-0.003659	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	20	-5.800000	-0.004653	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	10	-3.500000	-0.005234	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	0	-5.200000	-0.006523	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	-10	-4.800000	-0.002682	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	-20	-5.800000	-0.006342	±2.5	PASS
5-5	10MHz -10MHz	QPSK -QPSK	20476-20575	50RB#0-50RB#0	NV	-30	-4.500000	-0.005327	±2.5	PASS

---End of Attachment---



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