Appendix B.14

LTE Band 5B

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	1RB#0-0RB#0	22.48	21.14	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20450-20549	50RB#0-50RB#0	21.42	20.08	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	1RB#0-0RB#0	22.58	21.24	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	21.37	20.03	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	1RB#0-0RB#0	22.42	21.08	38.45	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	21.45	20.11	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	1RB#0-0RB#0	21.67	20.33	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	20.45	19.11	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	1RB#0-0RB#0	21.74	20.4	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	20.48	19.14	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	1RB#0-0RB#0	21.68	20.34	38.45	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	20.48	19.14	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	1RB#0-0RB#0	20.88	19.54	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	20.42	19.08	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	1RB#0-0RB#0	20.85	19.51	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	20.43	19.09	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	1RB#0-0RB#0	20.86	19.52	38.45	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	20.42	19.08	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	1RB#0-0RB#0	17.88	16.54	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	18.45	17.11	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	1RB#0-0RB#0	17.76	16.42	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	18.42	17.08	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	1RB#0-0RB#0	17.83	16.49	38.45	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	18.42	17.08	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	1RB#0-0RB#0	22.51	21.17	38.45	PASS

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5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	21.43	20.09	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	1RB#0-0RB#0	22.44	21.1	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	21.41	20.07	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	1RB#0-0RB#0	22.52	21.18	38.45	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	21.48	20.14	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	1RB#0-0RB#0	21.7	20.36	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	20.43	19.09	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	1RB#0-0RB#0	21.7	20.36	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	20.48	19.14	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	1RB#0-0RB#0	21.72	20.38	38.45	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	20.54	19.2	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	1RB#0-0RB#0	20.95	19.61	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	20.46	19.12	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	1RB#0-0RB#0	20.8	19.46	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	20.46	19.12	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	1RB#0-0RB#0	20.92	19.58	38.45	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	20.53	19.19	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	1RB#0-0RB#0	17.81	16.47	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	18.4	17.06	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	1RB#0-0RB#0	17.83	16.49	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	18.43	17.09	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	1RB#0-0RB#0	17.89	16.55	38.45	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	18.54	17.2	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	1RB#0-0RB#0	22.5	21.16	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	21.35	20.01	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	1RB#0-0RB#0	22.49	21.15	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	21.38	20.04	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	1RB#0-0RB#0	22.57	21.23	38.45	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	21.48	20.14	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	1RB#0-0RB#0	21.86	20.52	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	20.45	19.11	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	1RB#0-0RB#0	21.74	20.4	38.45	PASS

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5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	20.39	19.05	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	1RB#0-0RB#0	21.8	20.46	38.45	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	20.49	19.15	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	1RB#0-0RB#0	20.9	19.56	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	20.44	19.1	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	1RB#0-0RB#0	20.83	19.49	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	20.43	19.09	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	1RB#0-0RB#0	21.06	19.72	38.45	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	20.53	19.19	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	1RB#0-0RB#0	17.86	16.52	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	18.46	17.12	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	1RB#0-0RB#0	17.69	16.35	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	18.33	16.99	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	1RB#0-0RB#0	17.79	16.45	38.45	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	18.45	17.11	38.45	PASS

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Wireless Laboratory

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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	6.48	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	6.54	13	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	6.58	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	7.00	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	7.08	13	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	7.14	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	7.08	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	7.26	13	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	7.18	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	7.38	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	7.48	13	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	7.46	13	PASS

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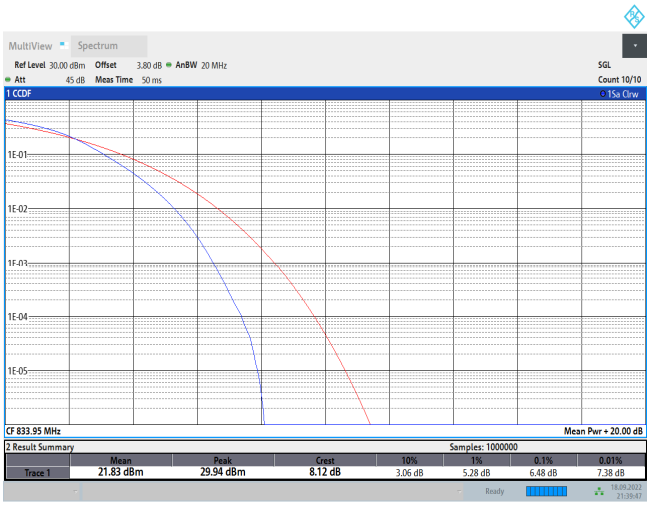
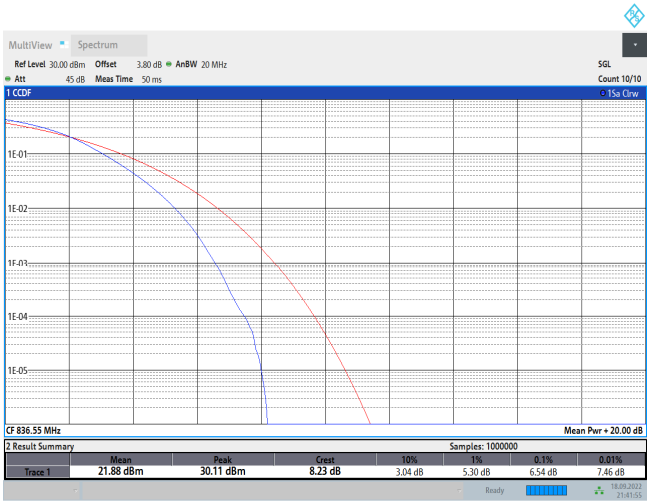
Test Graphs

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



21:39:47 18.09.2022

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



21:41:56 18.09.2022

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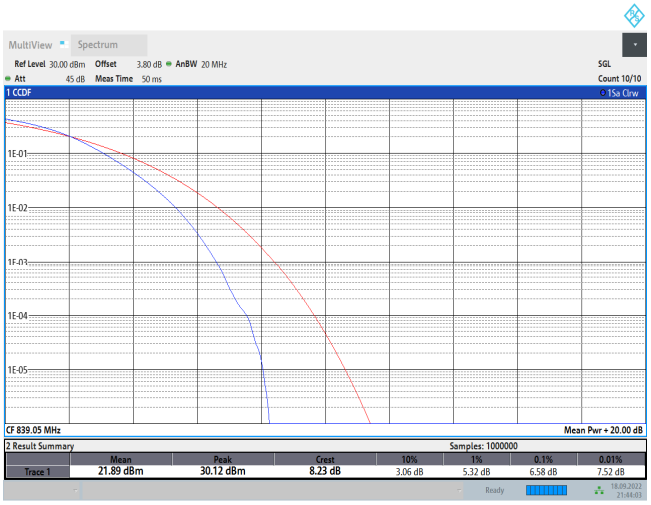
5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-50RB#0-50RB#0



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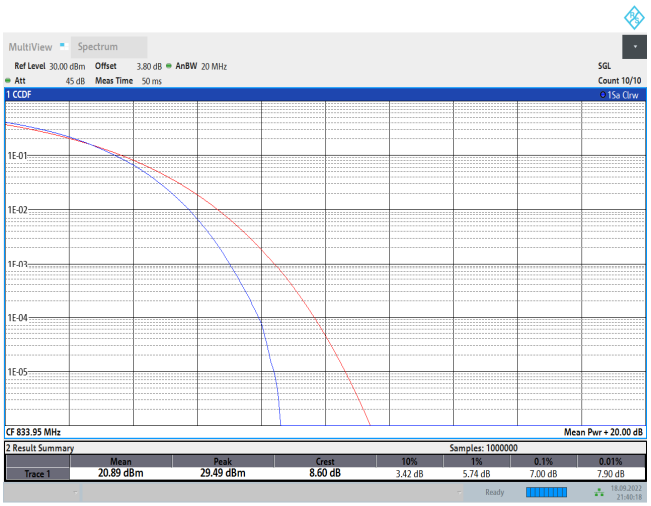

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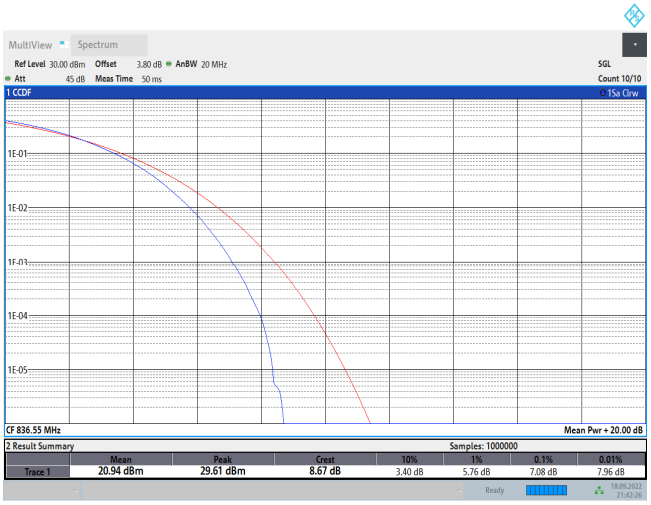
5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



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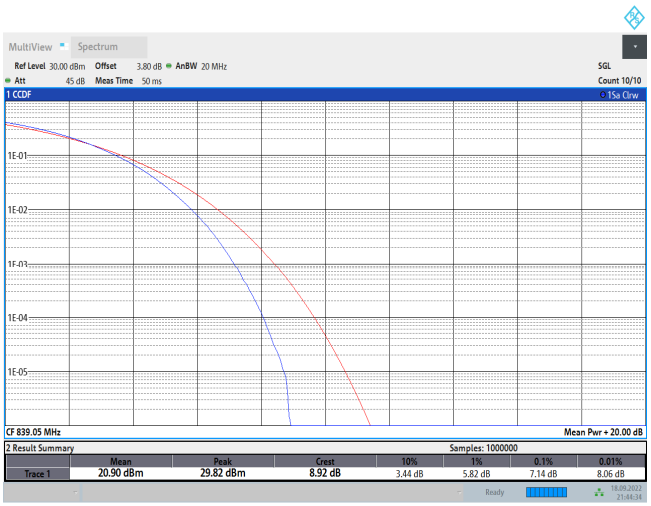

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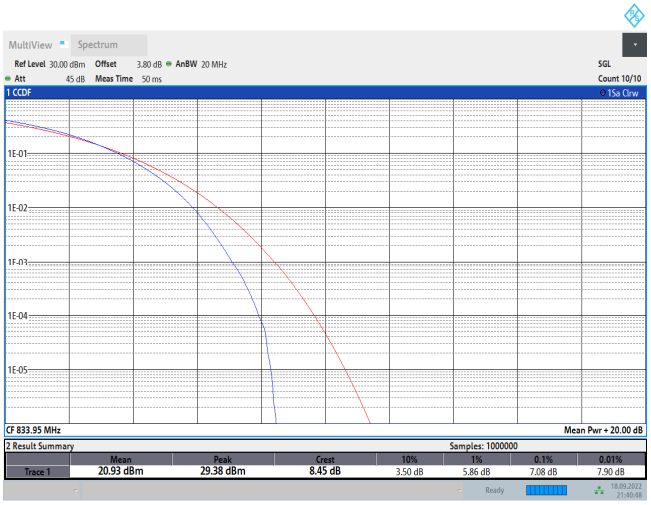
5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



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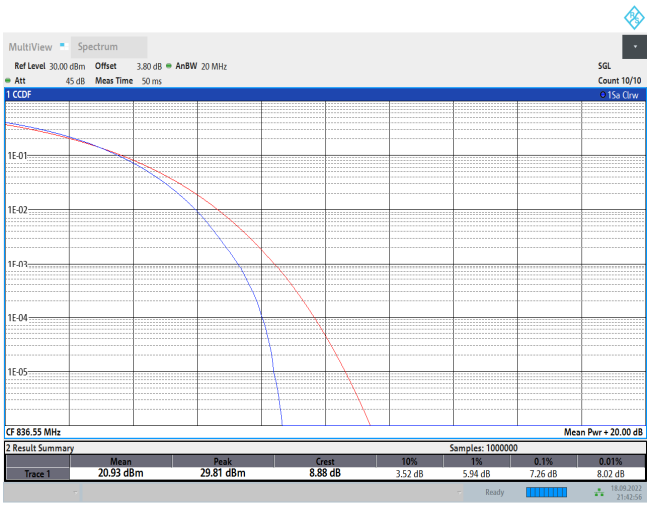

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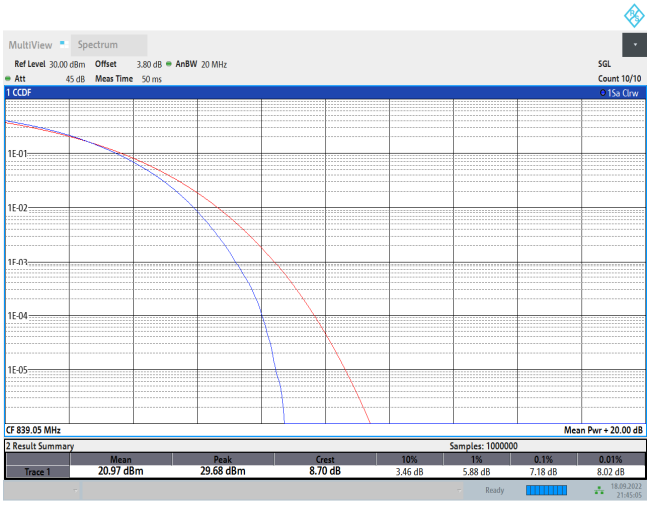
5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



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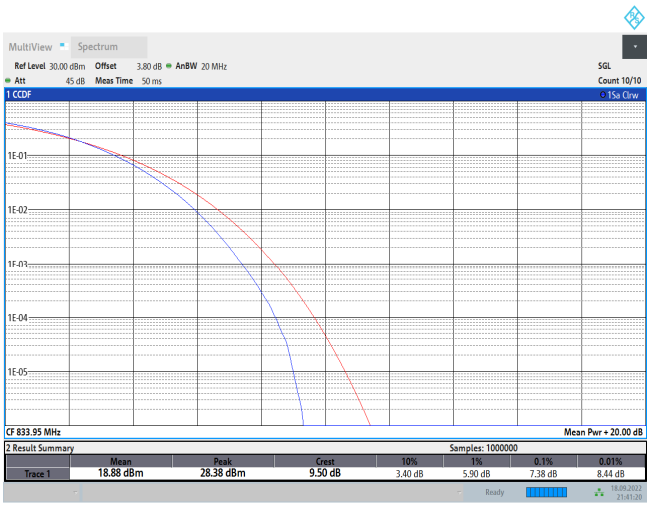

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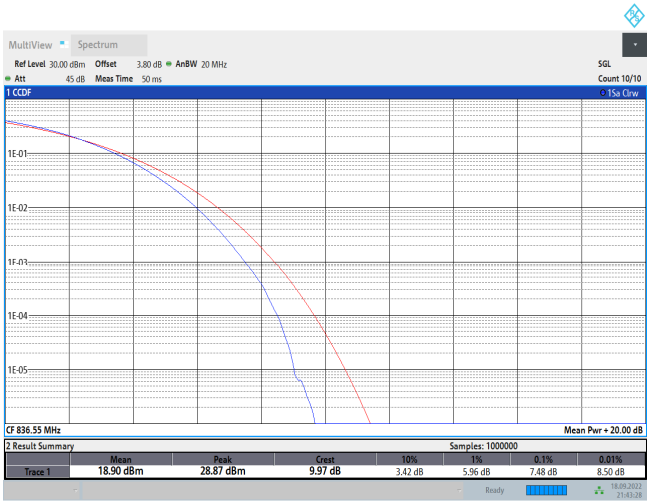
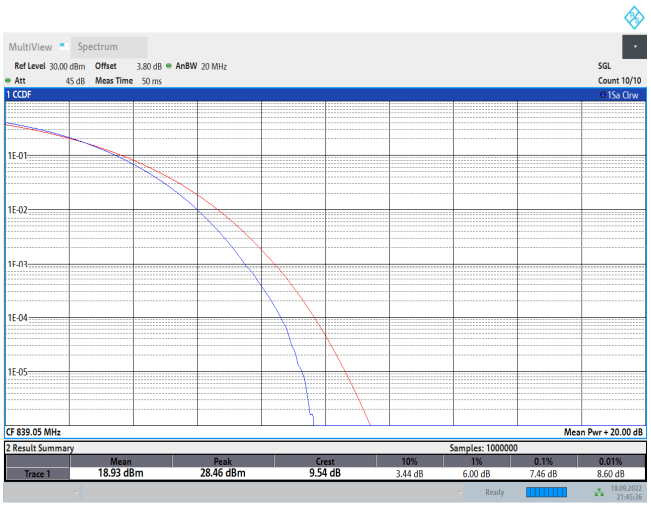
5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



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



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	PASS

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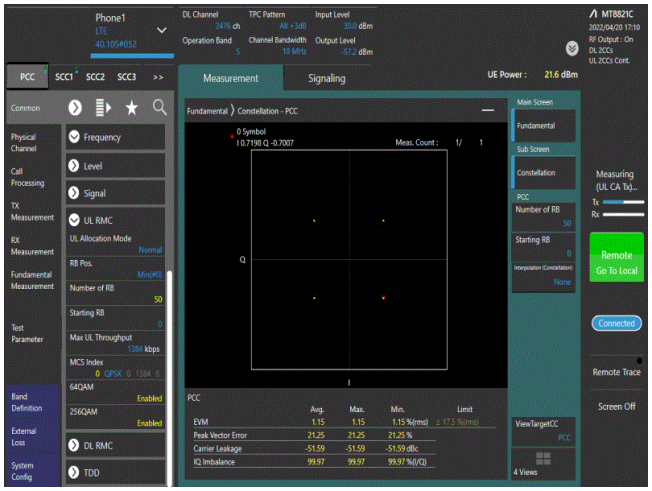
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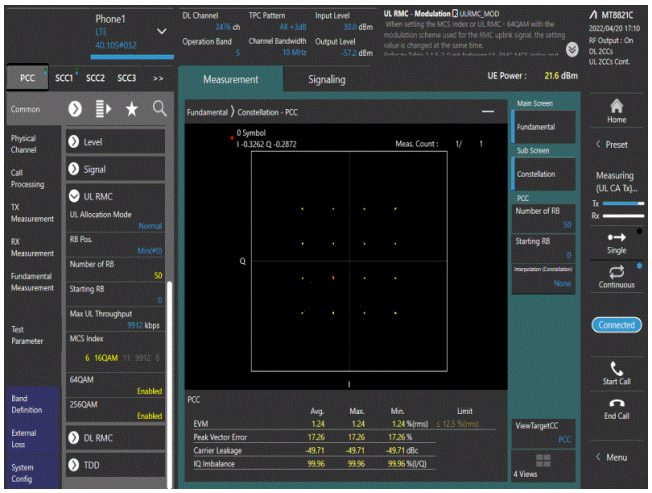

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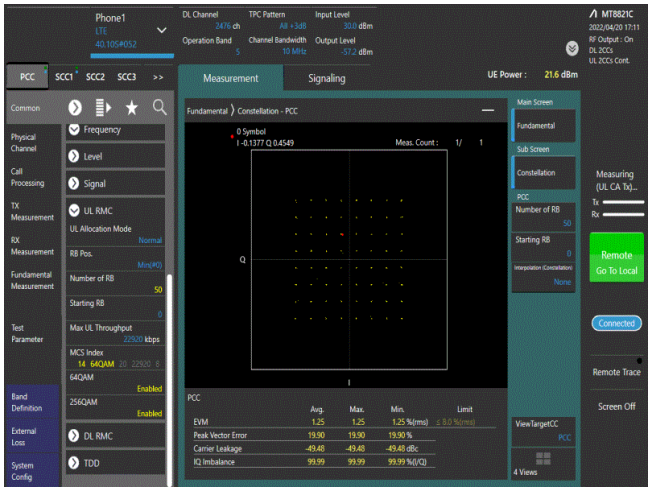
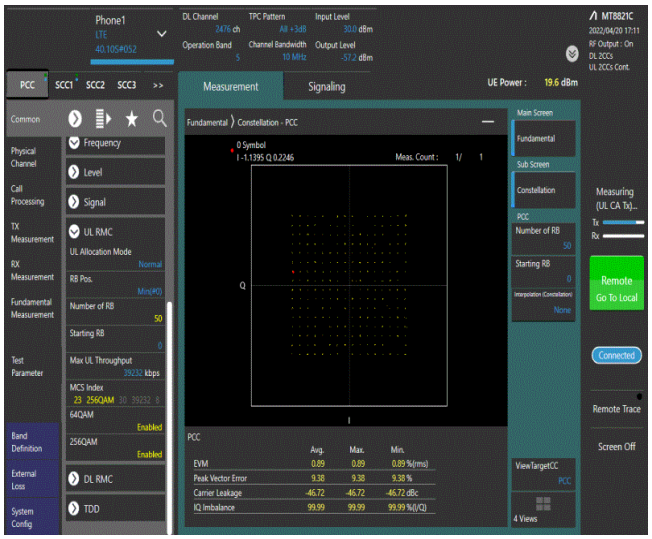


5-5-10MHz-10MHz-256QAM-256QAM-20476-20575-50RB#0-50RB#0



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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	20450-20549	50RB#0-50RB#0	18.883	20.40	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	18.813	20.40	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20501-20600	50RB#0-50RB#0	18.829	20.28	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20450-20549	50RB#0-50RB#0	18.81	20.40	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	18.823	20.36	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20501-20600	50RB#0-50RB#0	18.801	20.28	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20450-20549	50RB#0-50RB#0	18.842	20.36	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20476-20575	50RB#0-50RB#0	18.81	20.28	PASS
5-5	10MHz-10MHz	64QAM-64QAM	20501-20600	50RB#0-50RB#0	18.772	20.32	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20450-20549	50RB#0-50RB#0	18.877	20.44	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20476-20575	50RB#0-50RB#0	18.764	20.32	PASS
5-5	10MHz-10MHz	256QAM-256QAM	20501-20600	50RB#0-50RB#0	18.82	20.28	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20450-20522	50RB#0-25RB#0	13.933	15.03	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20500-20572	50RB#0-25RB#0	13.858	15.09	PASS
5-5	10MHz-5MHz	QPSK-QPSK	20550-20622	50RB#0-25RB#0	13.905	15.21	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20450-20522	50RB#0-25RB#0	13.94	15.09	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20500-20572	50RB#0-25RB#0	13.888	14.97	PASS
5-5	10MHz-5MHz	16QAM-16QAM	20550-20622	50RB#0-25RB#0	13.893	15.03	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20450-20522	50RB#0-25RB#0	13.932	15.12	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20500-20572	50RB#0-25RB#0	13.898	15.09	PASS
5-5	10MHz-5MHz	64QAM-64QAM	20550-20622	50RB#0-25RB#0	13.882	15.06	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20450-20522	50RB#0-25RB#0	13.936	15.03	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20500-20572	50RB#0-25RB#0	13.85	15.18	PASS
5-5	10MHz-5MHz	256QAM-256QAM	20550-20622	50RB#0-25RB#0	13.867	15.12	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20428-20500	25RB#0-50RB#0	13.94	14.94	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20478-20550	25RB#0-50RB#0	13.902	14.88	PASS
5-5	5MHz-10MHz	QPSK-QPSK	20528-20600	25RB#0-50RB#0	13.858	14.97	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20428-20500	25RB#0-50RB#0	13.889	14.85	PASS

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5-5	5MHz-10MHz	16QAM-16QAM	20478-20550	25RB#0-50RB#0	13.881	14.88	PASS
5-5	5MHz-10MHz	16QAM-16QAM	20528-20600	25RB#0-50RB#0	13.84	14.85	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20428-20500	25RB#0-50RB#0	13.93	14.94	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20478-20550	25RB#0-50RB#0	13.872	14.88	PASS
5-5	5MHz-10MHz	64QAM-64QAM	20528-20600	25RB#0-50RB#0	13.856	14.82	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20428-20500	25RB#0-50RB#0	13.883	14.91	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20478-20550	25RB#0-50RB#0	13.799	14.85	PASS
5-5	5MHz-10MHz	256QAM-256QAM	20528-20600	25RB#0-50RB#0	13.833	14.91	PASS

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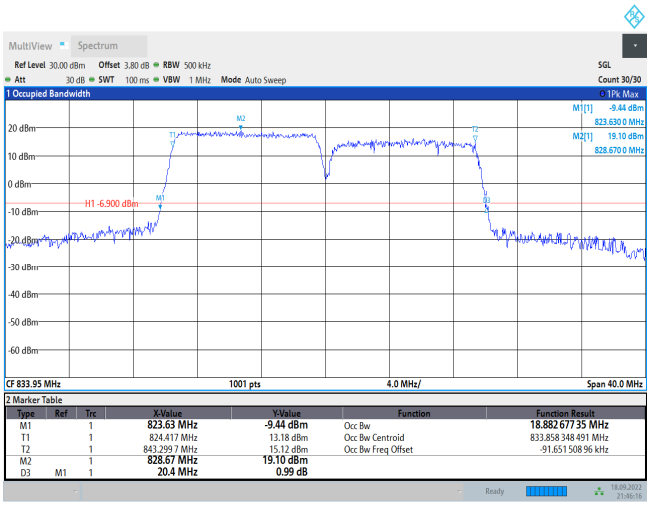
Test Graphs

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



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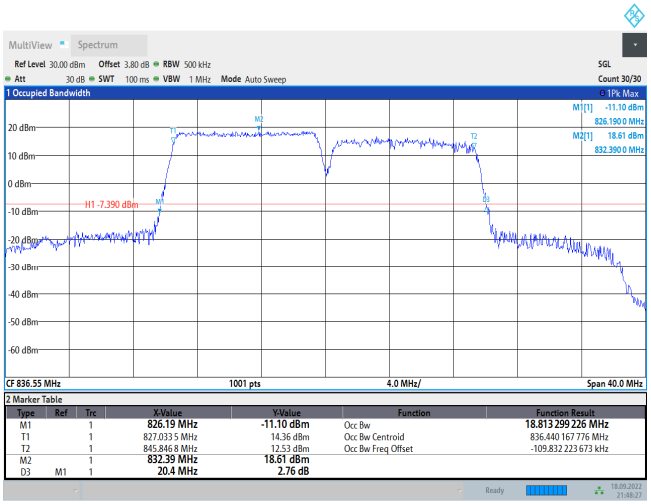

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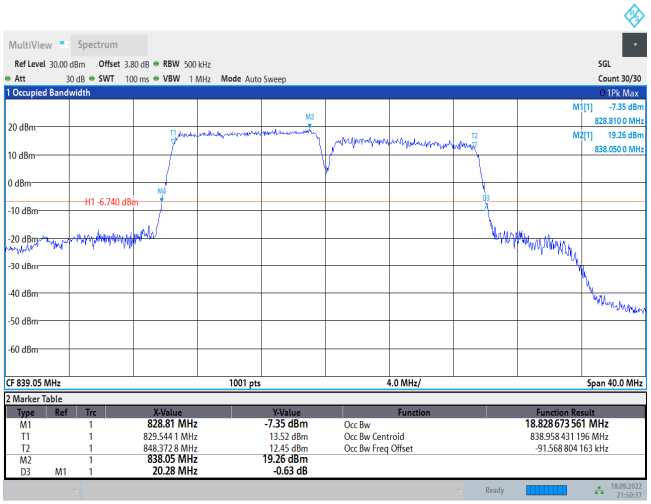

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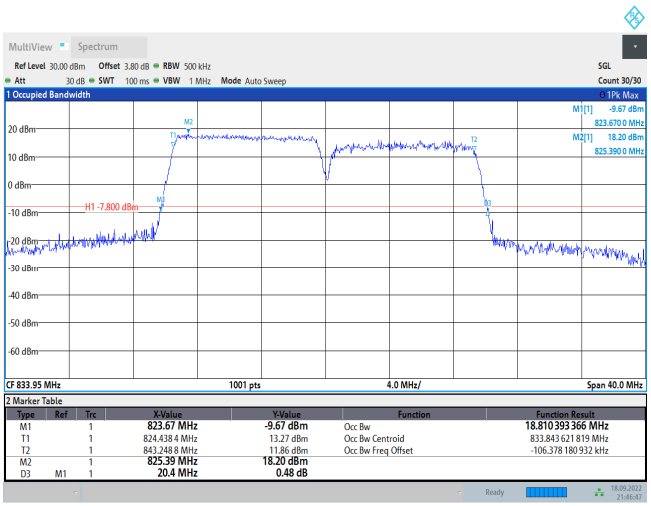

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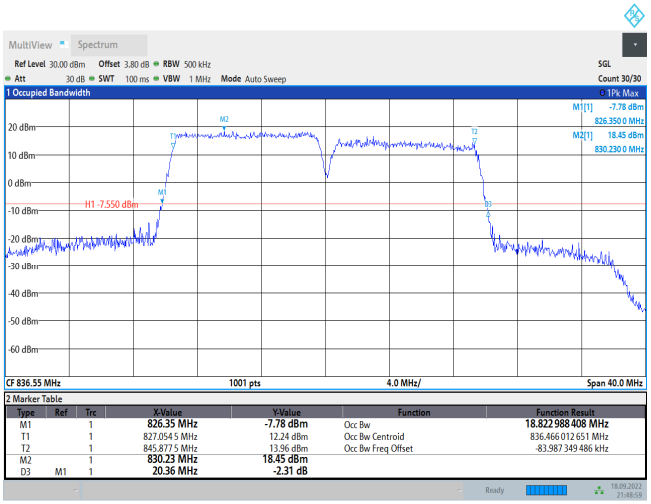
5-5-10MHz-10MHz-16QAM-16QAM-20476-20575-50RB#0-50RB#0



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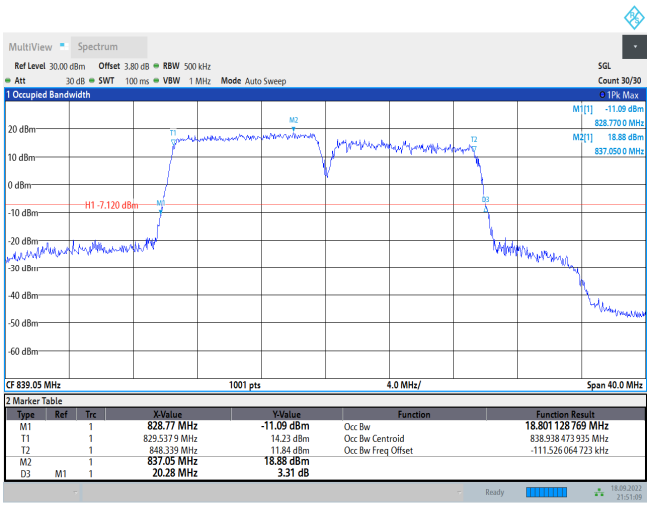

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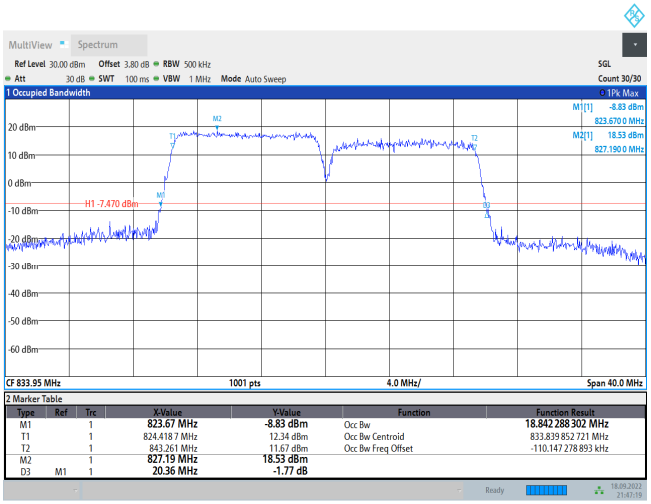
5-5-10MHz-10MHz-64QAM-64QAM-20450-20549-50RB#0-50RB#0



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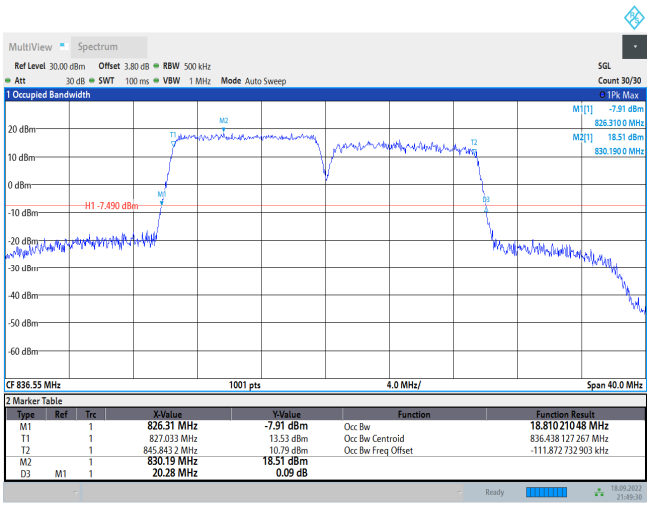

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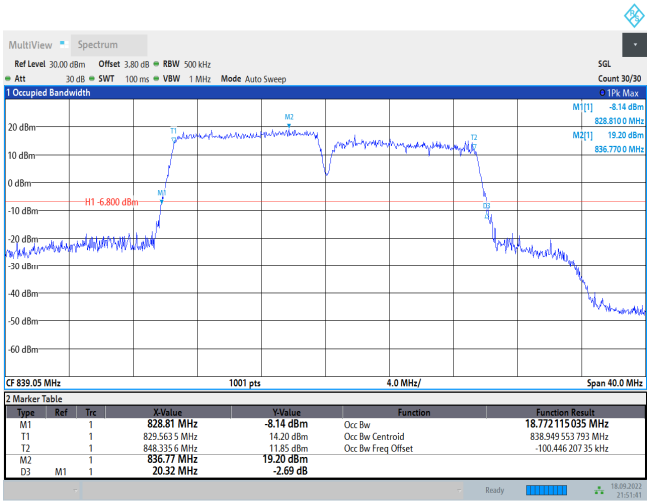
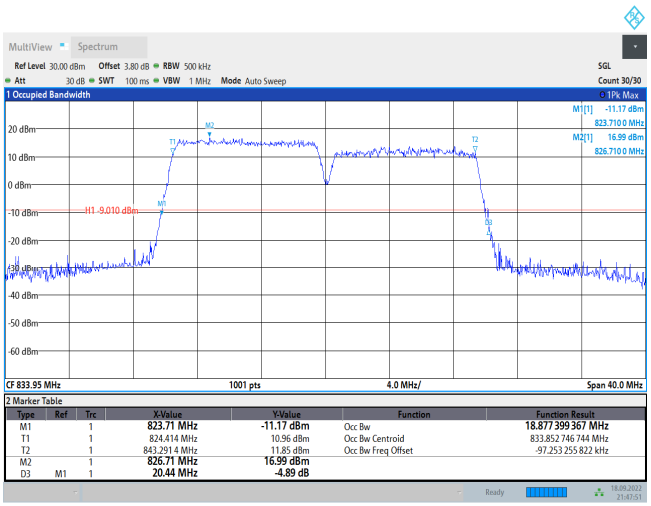
5-5-10MHz-10MHz-64QAM-64QAM-20501-20600-50RB#0-50RB#0



21:51:41 18.09.2022

5-5-10MHz-10MHz-256QAM-256QAM-20450-20549-50RB#0-50RB#0



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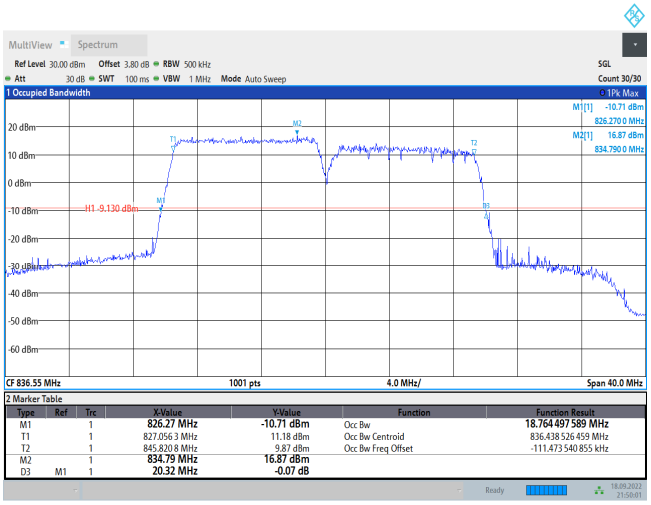

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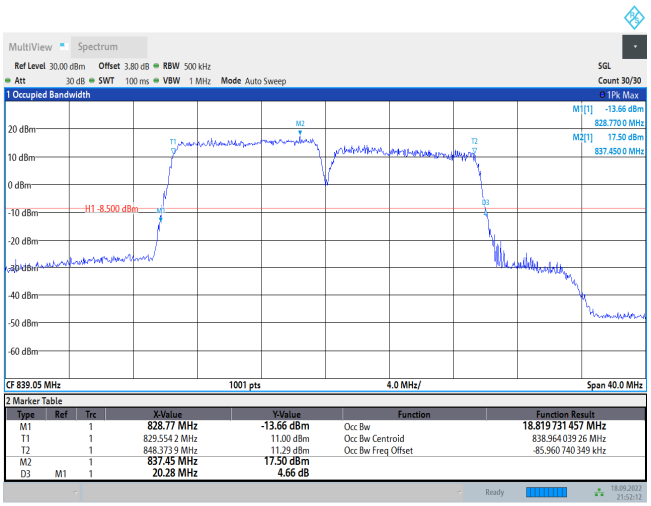

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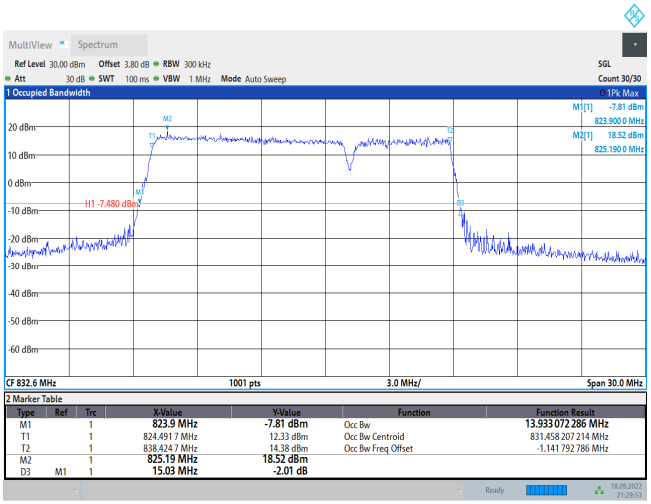
5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-50RB#0-25RB#0



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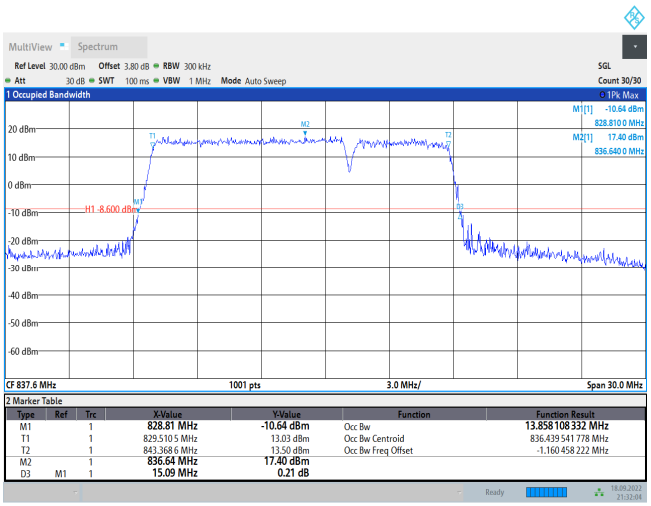

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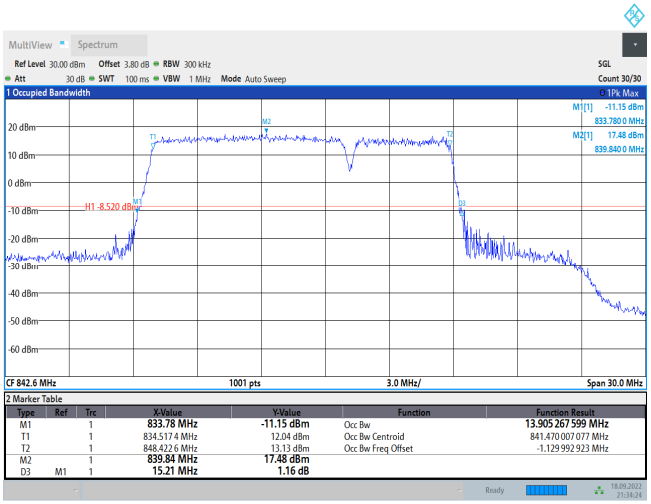
5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-50RB#0-25RB#0



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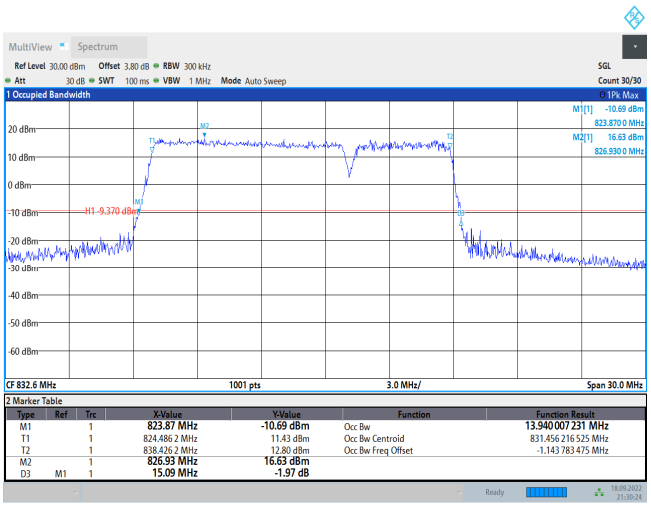

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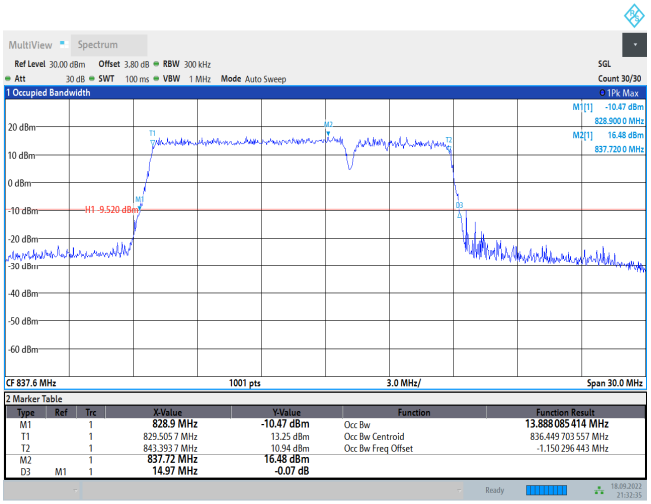
5-5-10MHz-5MHz-16QAM-16QAM-20500-20572-50RB#0-25RB#0



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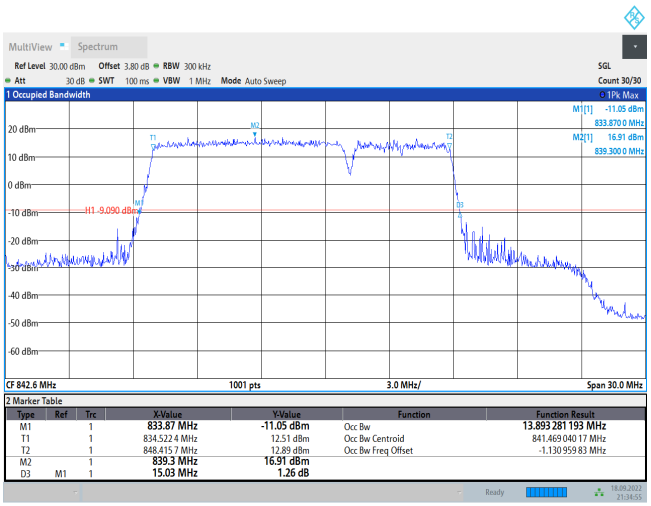

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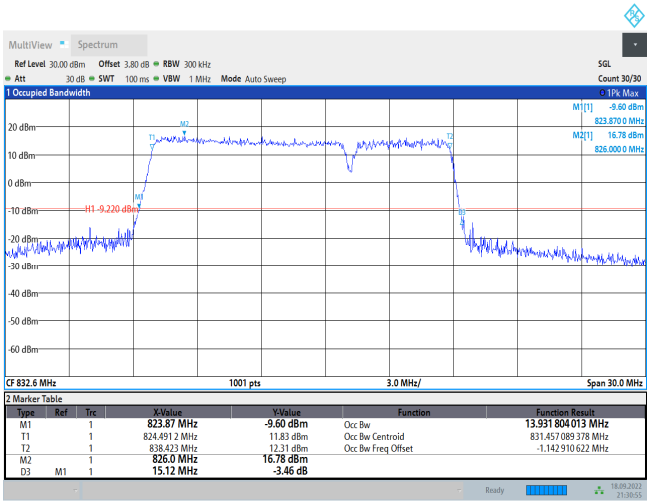
5-5-10MHz-5MHz-64QAM-64QAM-20450-20522-50RB#0-25RB#0



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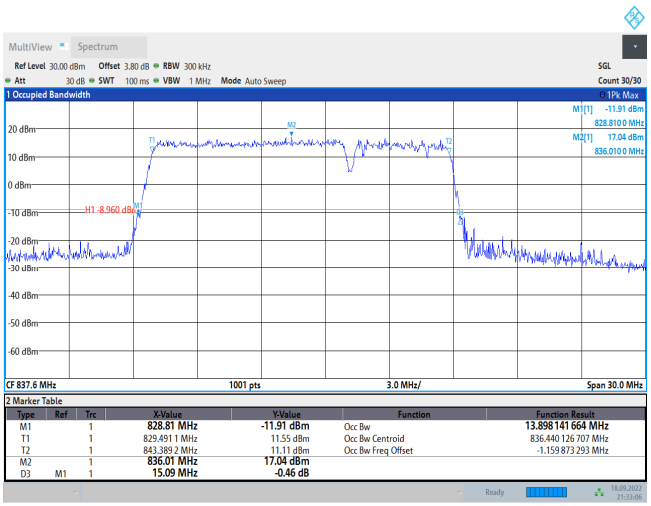

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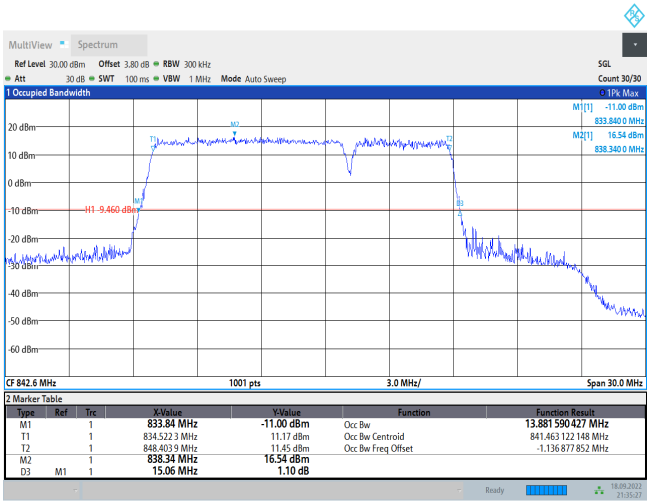
5-5-10MHz-5MHz-64QAM-64QAM-20550-20622-50RB#0-25RB#0



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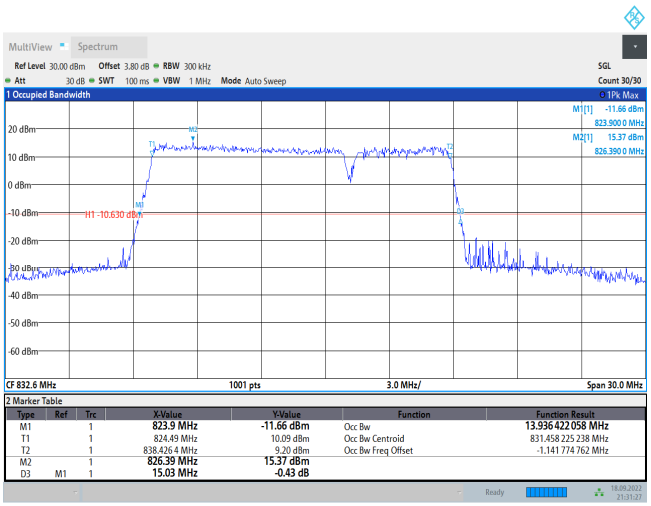

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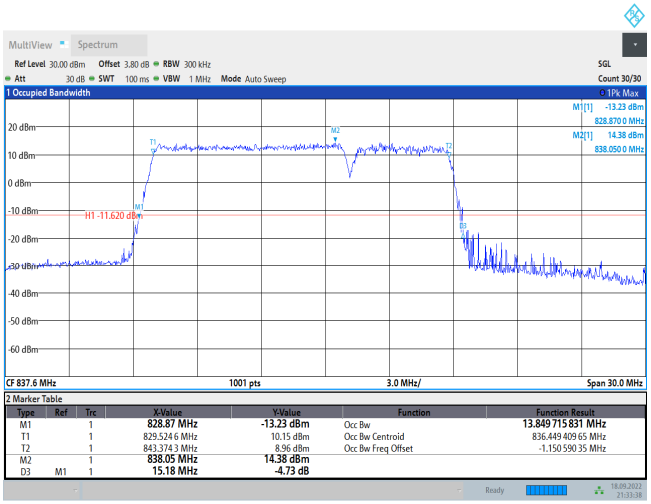

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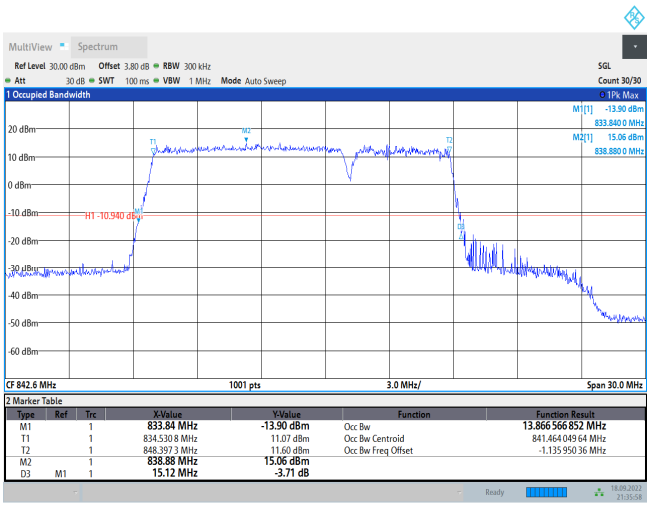

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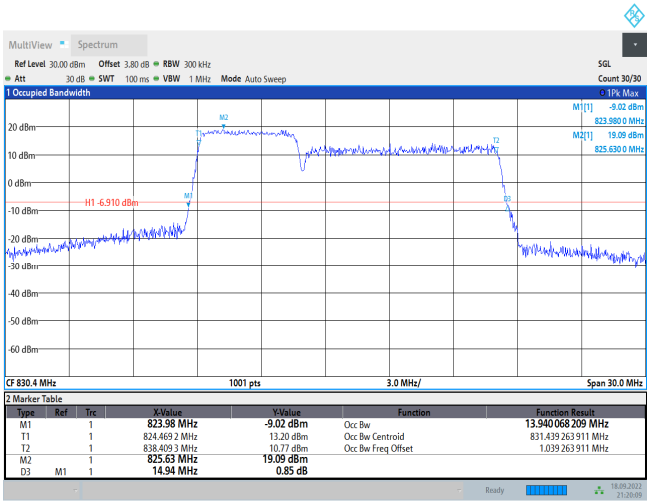
5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-25RB#0-50RB#0



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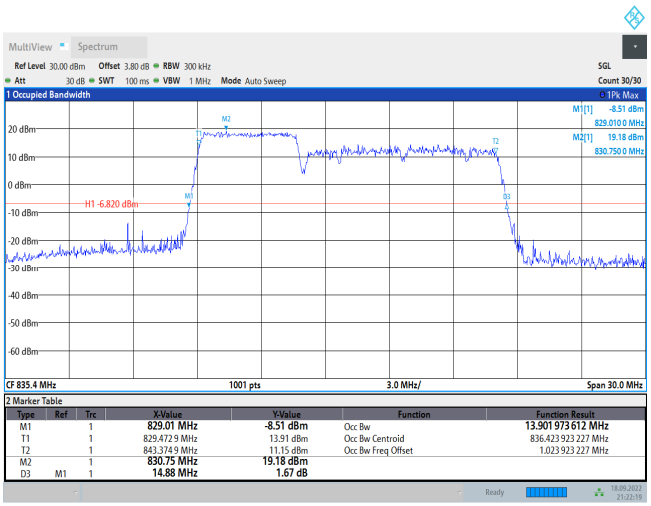

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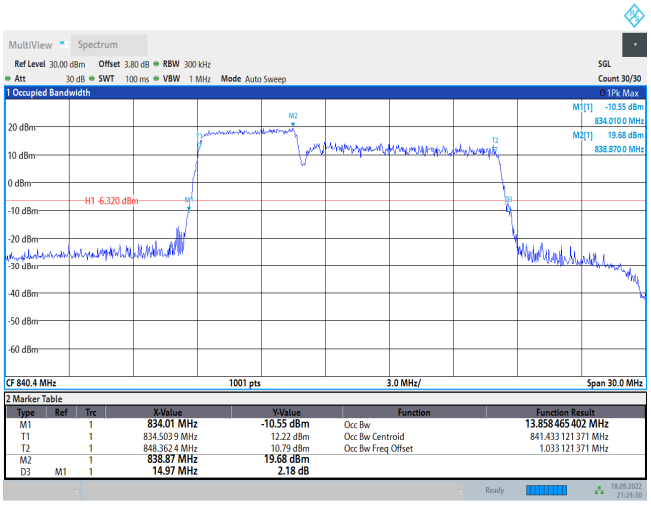
5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-25RB#0-50RB#0



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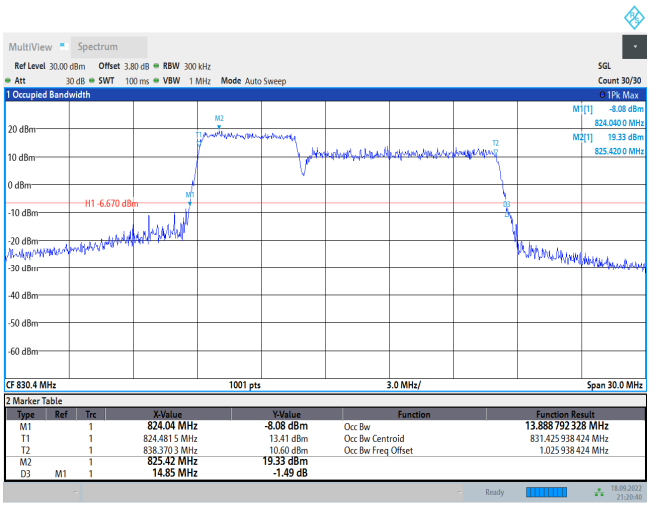

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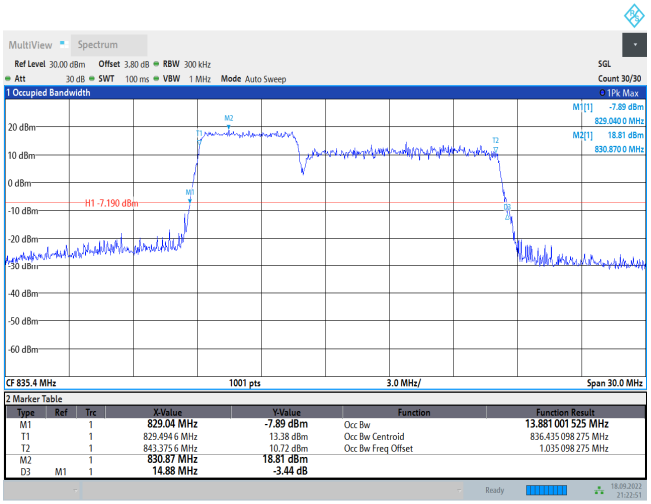
5-5-5MHz-10MHz-16QAM-16QAM-20478-20550-25RB#0-50RB#0



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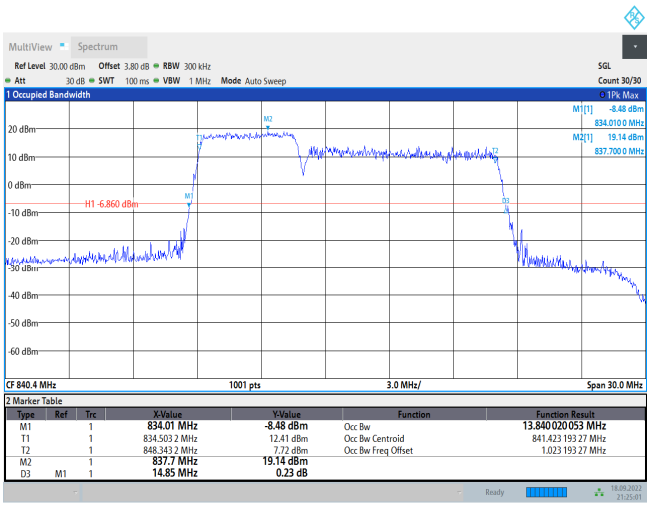

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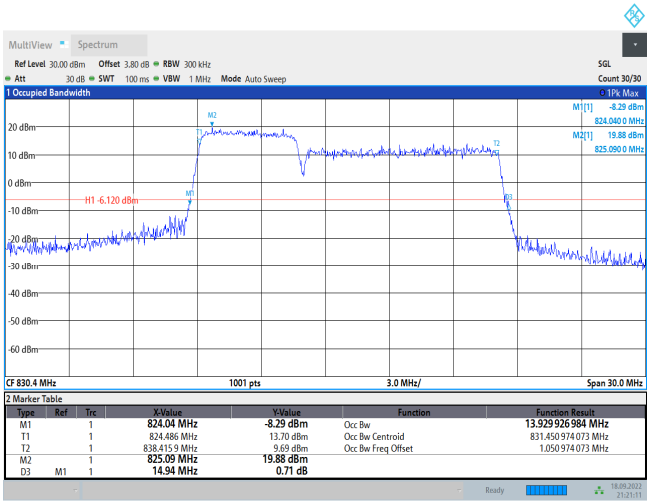

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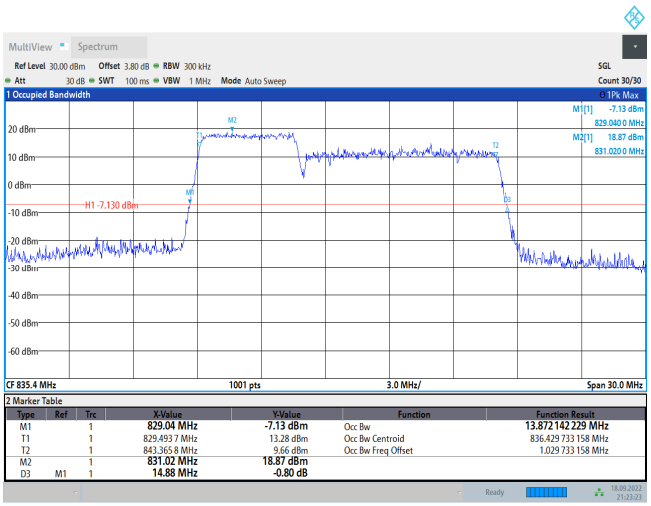

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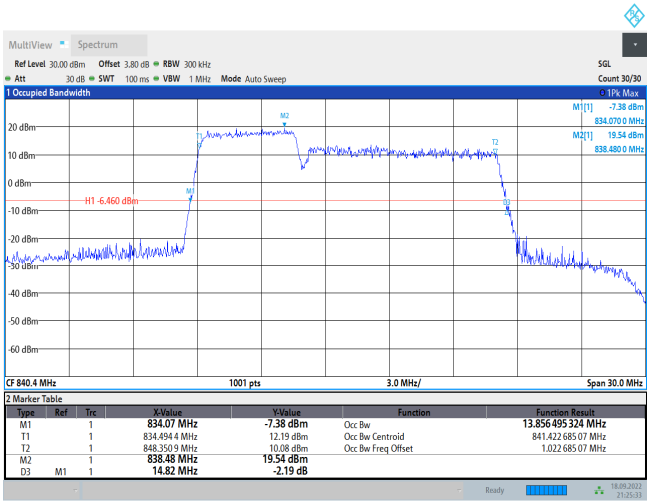
5-5-5MHz-10MHz-64QAM-64QAM-20528-20600-25RB#0-50RB#0



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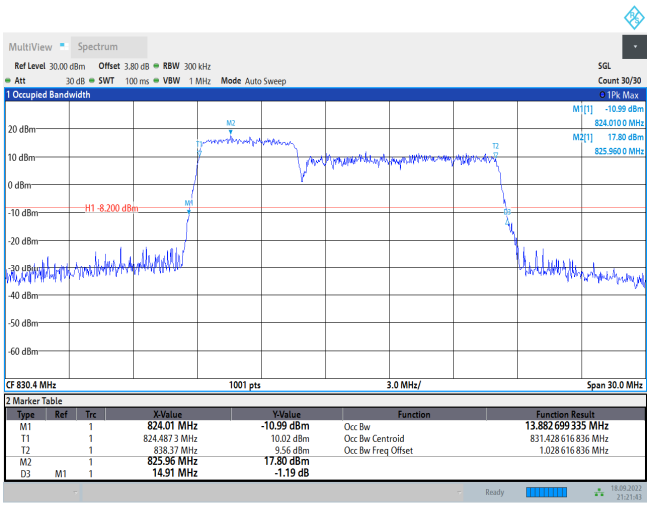

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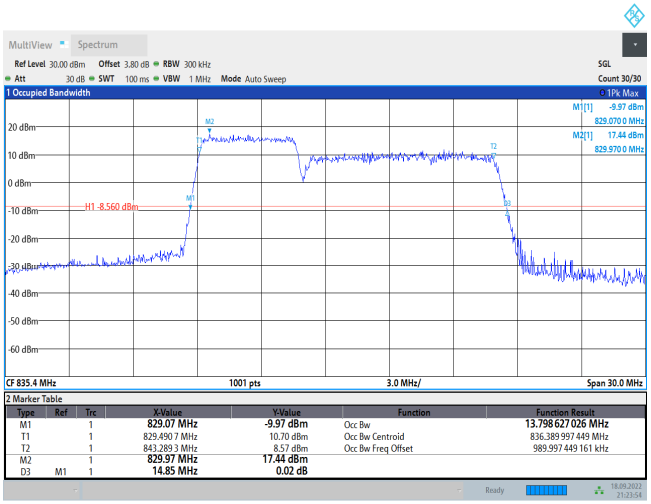

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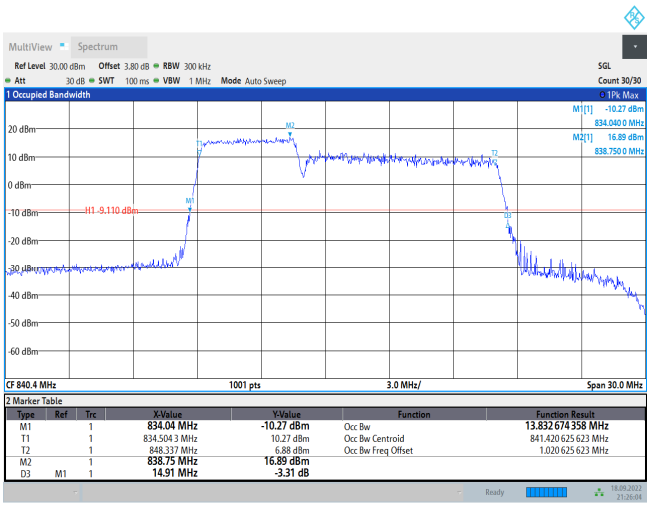

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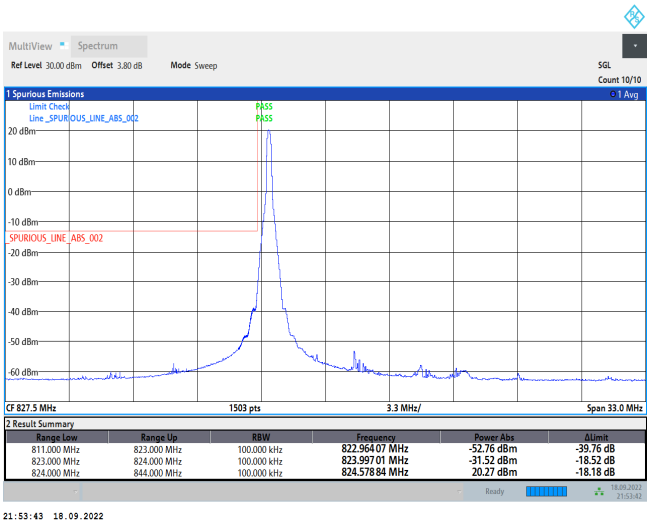
Band Edge

Test Graphs

5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0



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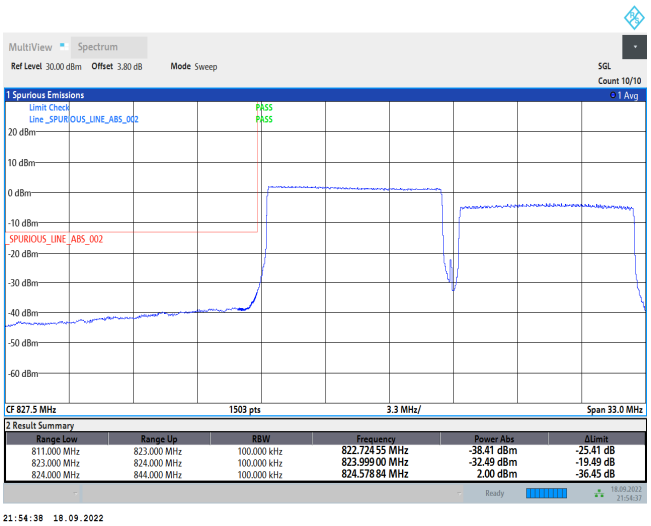

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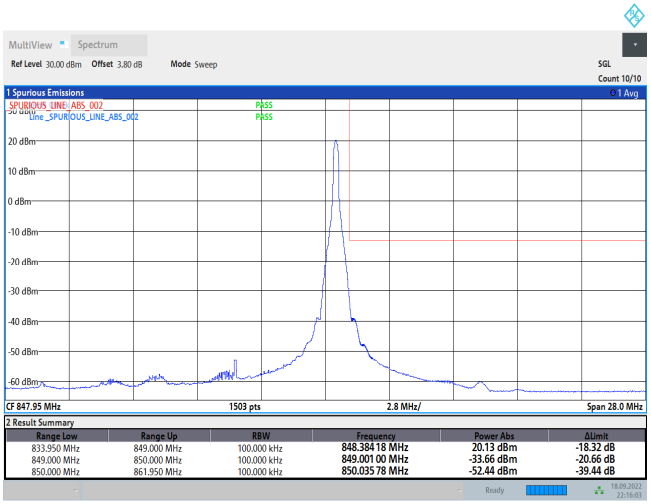
5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-0RB#0-1RB#49



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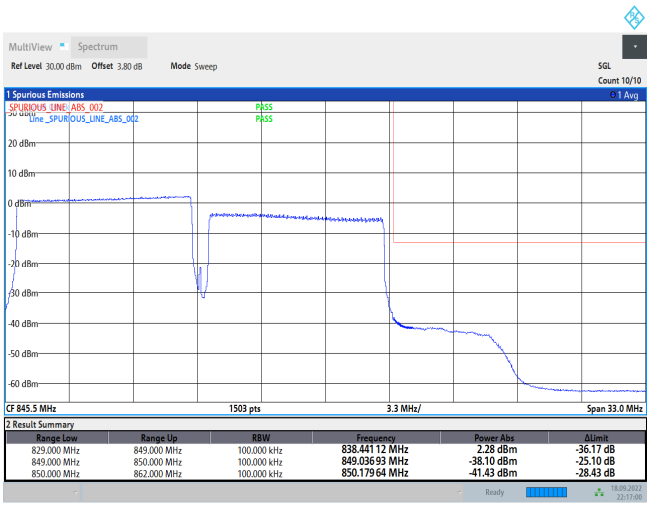

22:17:00 18.09.2022

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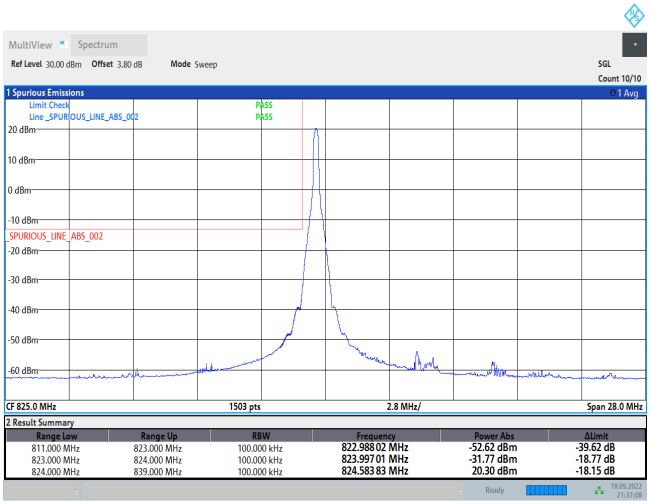
5-5-10MHz-5MHz-QPSK-QPSK-20450-20522-1RB#0-0RB#0



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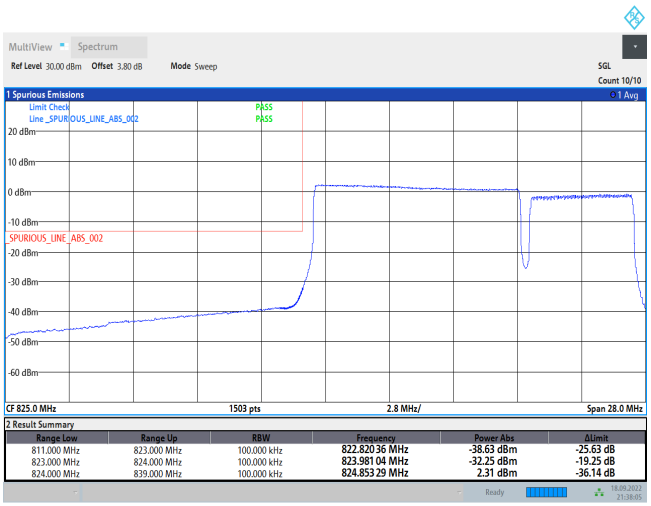

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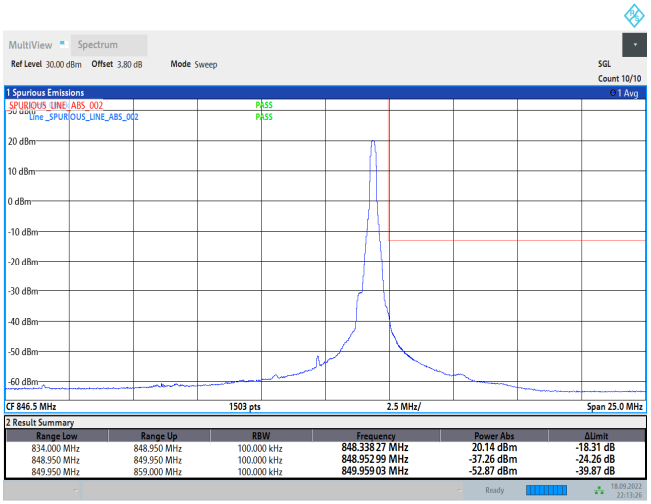
5-5-10MHz-5MHz-QPSK-QPSK-20550-20622-0RB#0-1RB#24



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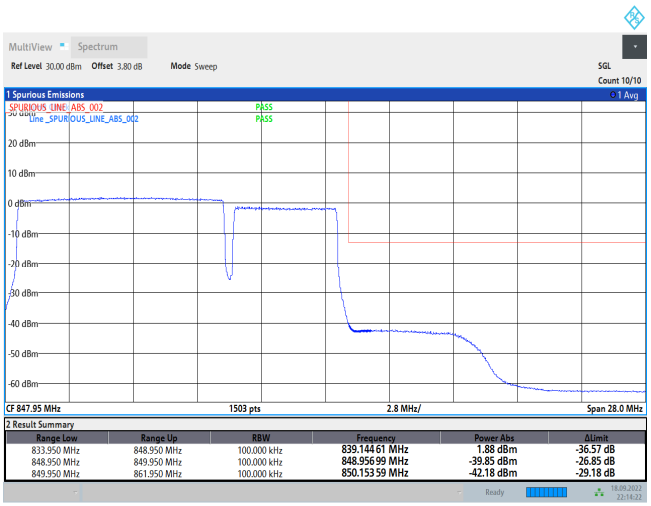

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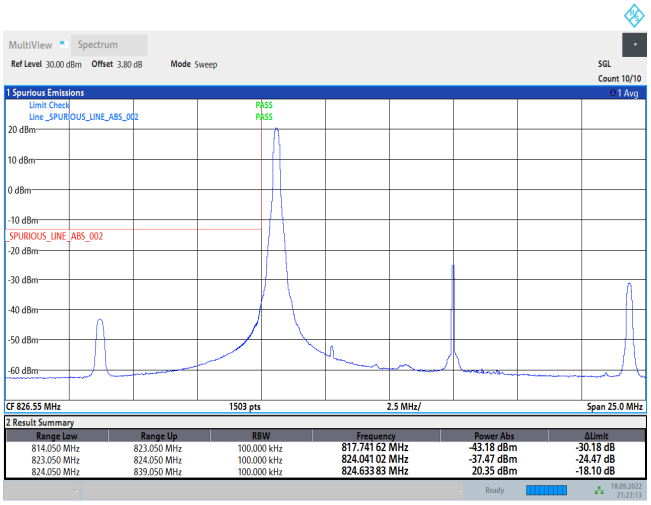
5-5-5MHz-10MHz-QPSK-QPSK-20428-20500-1RB#0-0RB#0



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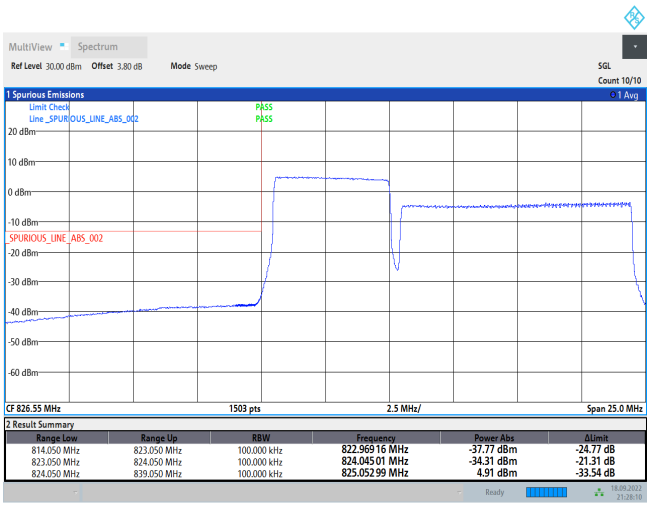

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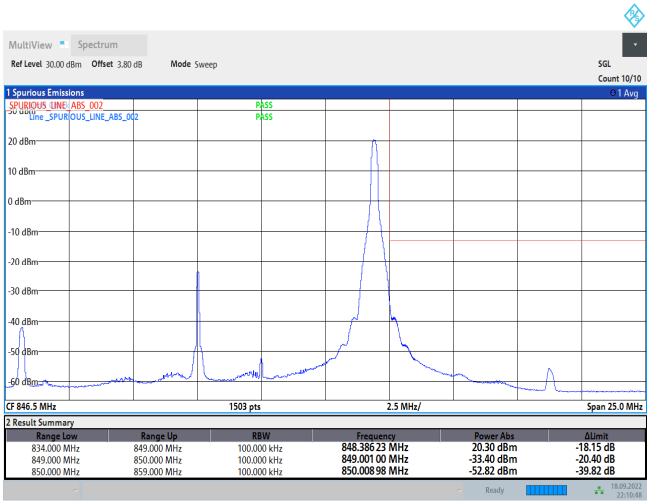
5-5-5MHz-10MHz-QPSK-QPSK-20528-20600-0RB#0-1RB#49



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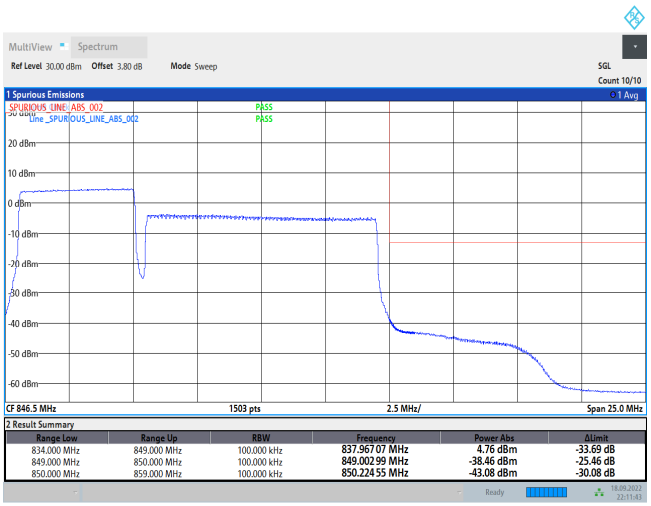

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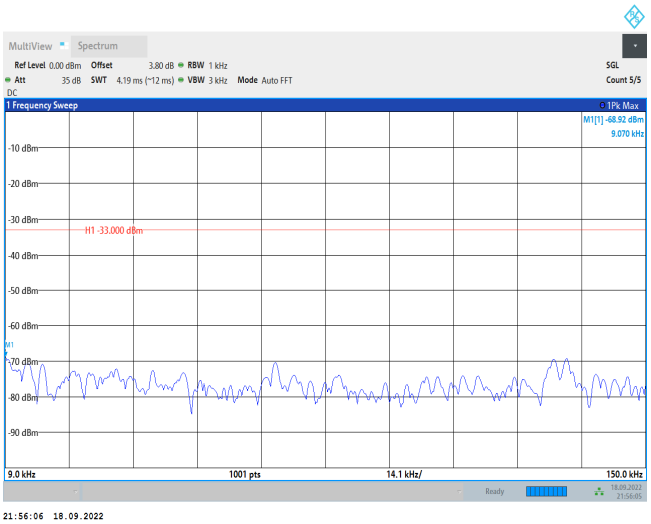
Conducted Spurious Emission

Test Graphs

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



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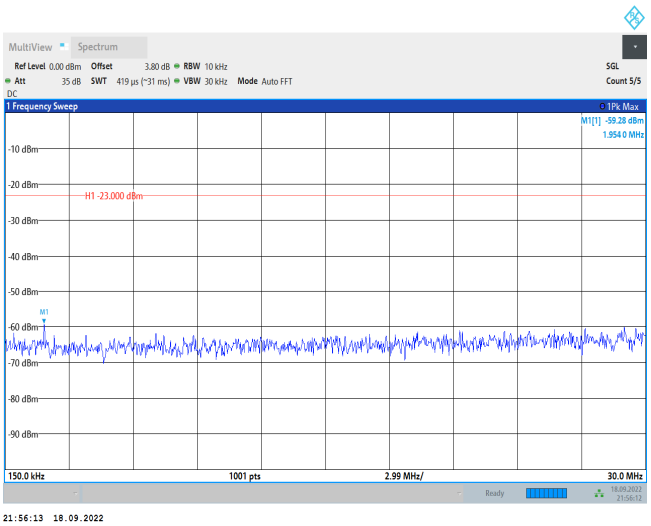

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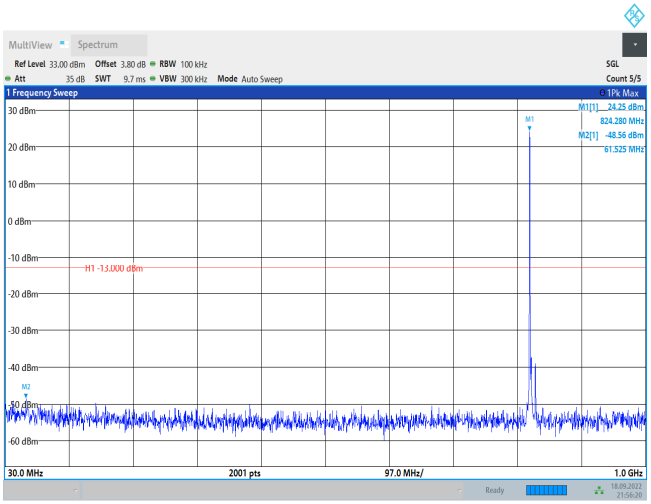
5-5-10MHz-10MHz-QPSK-QPSK-20450-20549-1RB#0-0RB#0-30~1000MHz



21:56:21 18.09.2022

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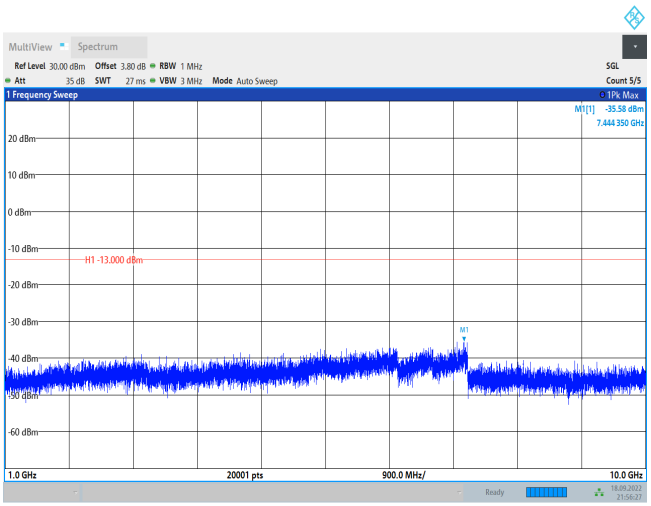

21:56:28 18.09.2022

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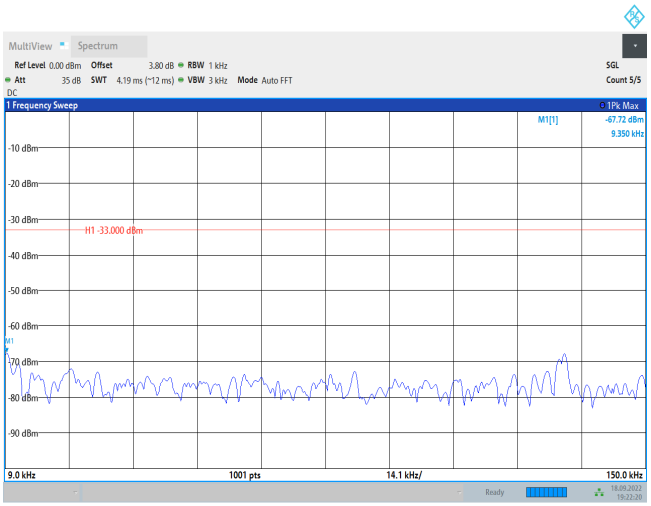
5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-0.009~0.15MHz



19:22:20 18.09.2022

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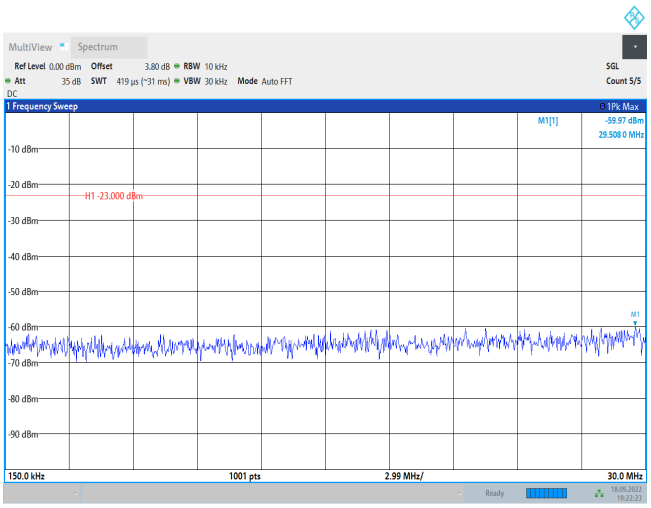

19:22:24 18.09.2022

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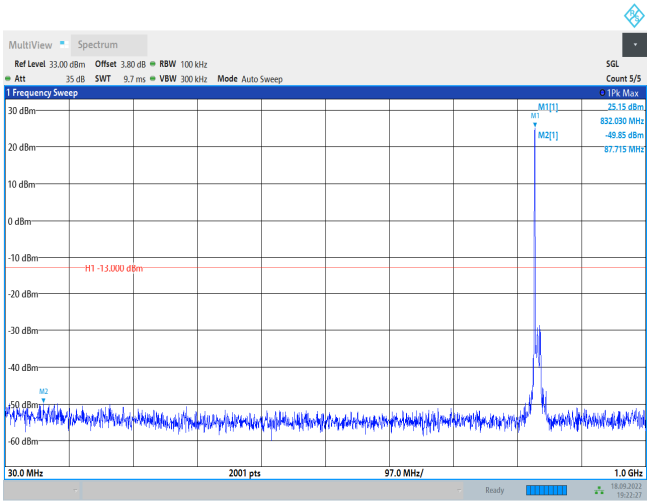
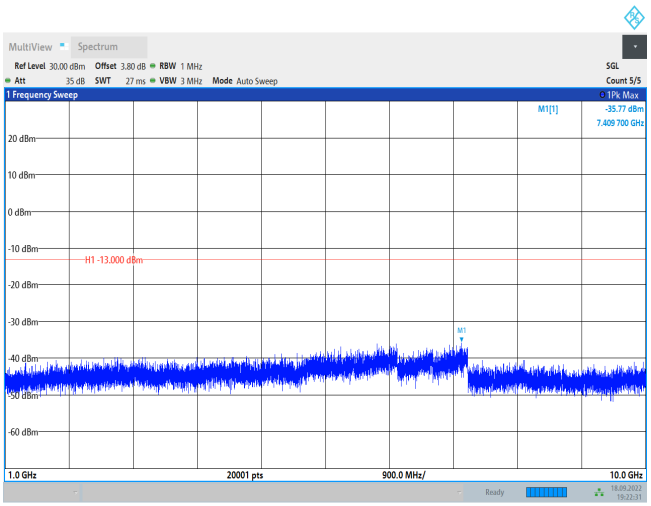
5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-30~1000MHz



5-5-10MHz-10MHz-QPSK-QPSK-20476-20575-1RB#0-0RB#0-1000~10000MHz



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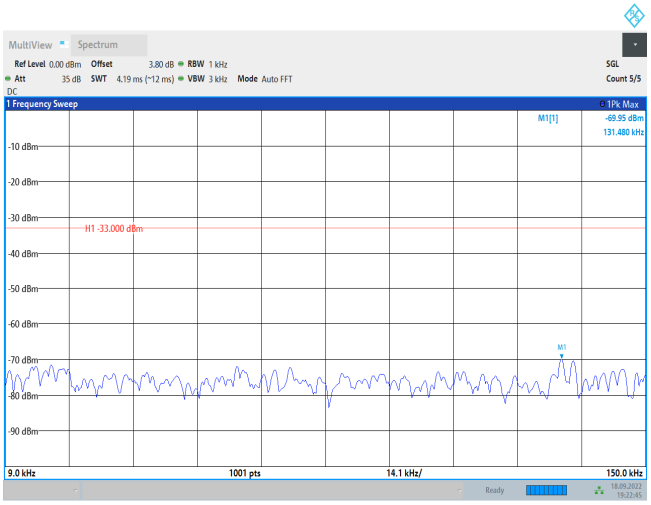
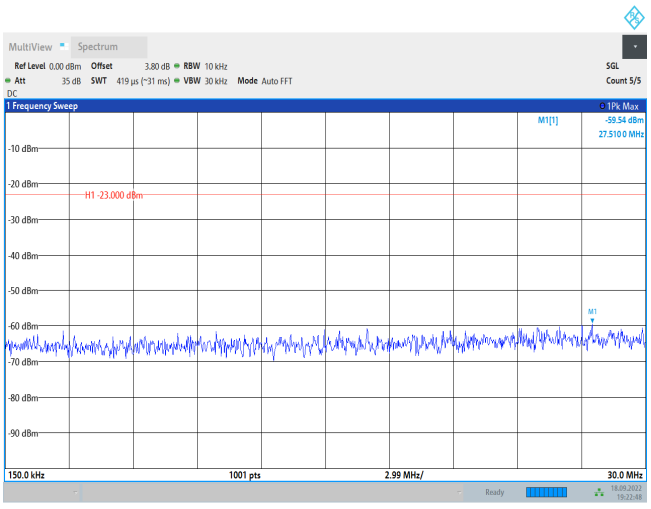
5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.009~0.15MHz



5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-0.15~30MHz



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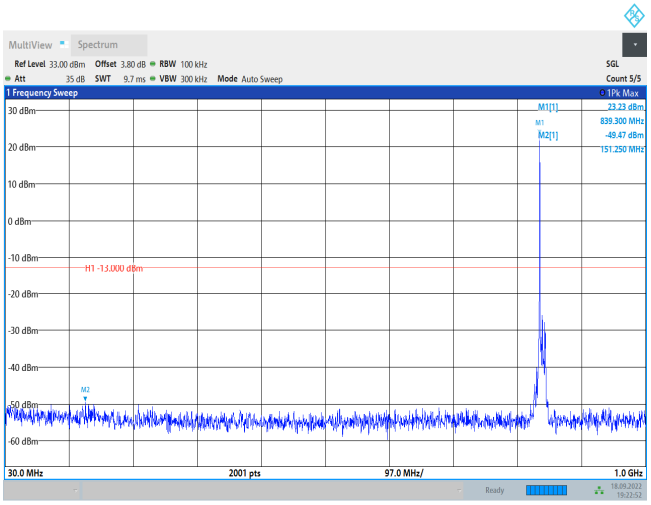
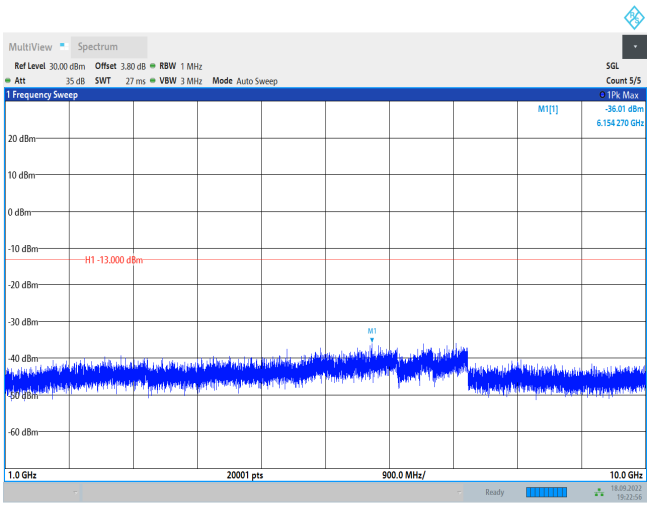
5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-30~1000MHz



5-5-10MHz-10MHz-QPSK-QPSK-20501-20600-1RB#0-0RB#0-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band5B_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.1800	50.51	-48.22	25.37	-67.60	-13.00	54.60	215	239	Horizontal
2	2473.7700	50.06	-47.32	27.69	-64.83	-13.00	51.83	236	225	Horizontal
3	3298.3600	50.04	-46.68	29.56	-62.34	-13.00	49.34	251	0	Horizontal
4	4122.9500	48.30	-45.91	30.99	-61.89	-13.00	48.89	145	171	Horizontal
5	4947.5400	47.96	-45.69	32.73	-60.26	-13.00	47.26	185	0	Horizontal
6	5772.1000	46.73	-44.64	33.65	-59.52	-13.00	46.52	169	2	Horizontal

Test Band = LTE Band5B_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.1800	50.34	-48.22	25.37	-67.77	-13.00	54.77	148	4	Vertical
2	2473.7700	49.69	-47.32	27.69	-65.20	-13.00	52.20	175	360	Vertical
3	3298.3600	49.57	-46.68	29.56	-62.81	-13.00	49.81	142	282	Vertical
4	4122.9500	48.17	-45.91	30.99	-62.02	-13.00	49.02	126	148	Vertical
5	4947.5400	47.42	-45.69	32.73	-60.80	-13.00	47.80	236	134	Vertical
6	5772.1000	47.18	-44.64	33.65	-59.07	-13.00	46.07	261	41	Vertical

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Test Band = LTE Band5B_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.3600	51.08	-48.21	25.37	-67.02	-13.00	54.02	258	357	Horizontal
2	2481.5700	49.45	-47.30	27.71	-65.40	-13.00	52.40	146	1	Horizontal
3	3308.7600	49.38	-46.67	29.54	-63.00	-13.00	50.00	291	0	Horizontal
4	4135.9500	48.46	-45.92	31.00	-61.72	-13.00	48.72	174	240	Horizontal
5	4963.1400	48.17	-45.73	32.78	-60.04	-13.00	47.04	185	334	Horizontal
6	5790.3300	46.74	-44.65	33.72	-59.46	-13.00	46.46	142	0	Horizontal

Test Band = LTE Band5B_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.3600	50.57	-48.21	25.37	-67.53	-13.00	54.53	254	269	Vertical
2	2481.5700	49.42	-47.30	27.71	-65.43	-13.00	52.43	126	14	Vertical
3	3308.7600	50.46	-46.67	29.54	-61.92	-13.00	48.92	236	188	Vertical
4	4135.9500	50.19	-45.92	31.00	-59.99	-13.00	46.99	261	228	Vertical
5	4963.1400	48.32	-45.73	32.78	-59.89	-13.00	46.89	142	335	Vertical
6	5790.3300	46.66	-44.65	33.72	-59.54	-13.00	46.54	195	360	Vertical

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Test Band = LTE Band5B_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1749.3800	50.09	-48.06	25.41	-67.82	-13.00	54.82	211	0	Horizontal
2	2624.0700	49.93	-46.96	28.15	-64.14	-13.00	51.14	147	356	Horizontal
3	3498.7600	49.60	-46.54	29.52	-62.68	-13.00	49.68	185	6	Horizontal
4	4373.4500	48.21	-45.86	31.46	-61.45	-13.00	48.45	169	293	Horizontal
5	5248.1400	45.46	-45.14	32.94	-61.99	-13.00	48.99	142	266	Horizontal
6	6122.8300	45.70	-44.74	34.17	-60.12	-13.00	47.12	120	90	Horizontal

Test Band = LTE Band5B_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1749.3800	50.93	-48.06	25.41	-66.98	-13.00	53.98	155	148	Vertical
2	2624.0700	49.43	-46.96	28.15	-64.64	-13.00	51.64	203	108	Vertical
3	3498.7600	49.43	-46.54	29.52	-62.85	-13.00	49.85	214	215	Vertical
4	4373.4500	48.08	-45.86	31.46	-61.58	-13.00	48.58	236	242	Vertical
5	5248.1400	46.77	-45.14	32.94	-60.68	-13.00	47.68	299	347	Vertical
6	6122.8300	47.08	-44.74	34.17	-58.74	-13.00	45.74	214	174	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 (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VH	NT	0.72	0.000866	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VL	NT	0.73	0.000878	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VN	NT	0.01	0.000012	±2.5	PASS

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Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-30	0.40	0.000481	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-20	0.63	0.000758	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-10	0.47	0.000565	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	0	0.66	0.000794	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	10	0.97	0.001166	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	20	0.65	0.000782	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	30	0.49	0.000589	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	40	0.04	0.000048	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	50	0.53	0.000637	±2.5	PASS

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