Appendix B.5

LTE Band 5

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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.9	20.95	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.01	21.06	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.9	20.95	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.98	20.03	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.98	21.03	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.09	21.14	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.96	21.01	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.06	20.11	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.03	21.08	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.2	21.25	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.02	21.07	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.16	20.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.08	20.13	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.18	20.23	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.11	20.16	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.05	19.1	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.27	20.32	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.26	20.31	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.09	20.14	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.14	19.19	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.28	20.33	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.44	20.49	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.17	20.22	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.2	19.25	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.05	19.1	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.17	19.22	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.08	19.13	38.45	PASS

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Band5	1.4MHz	64QAM	20407	6RB#0	20.94	17.99	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.1	19.15	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	22.21	19.26	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.12	19.17	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	21.01	18.06	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.13	19.18	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	22.32	19.37	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.11	19.16	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	21.13	18.18	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.92	20.97	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.95	21	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.94	20.99	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.94	19.99	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.07	21.12	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.02	21.07	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.03	21.08	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.08	20.13	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.1	21.15	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.07	21.12	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.06	21.11	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.13	20.18	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.1	20.15	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.08	20.13	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.22	20.27	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.94	18.99	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.22	20.27	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.17	20.22	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.32	20.37	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.04	19.09	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.34	20.39	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.33	20.38	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.26	20.31	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.12	19.17	38.45	PASS

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Band5	3MHz	64QAM	20415	1RB#0	22.03	19.08	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.1	19.15	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.1	19.15	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.93	17.98	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.11	19.16	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	22.13	19.18	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.17	19.22	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	21.05	18.1	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.25	19.3	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.22	19.27	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.24	19.29	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	21.1	18.15	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.84	20.89	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	24.11	21.16	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.85	20.9	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.98	20.03	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.96	21.01	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.18	21.23	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.94	20.99	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.08	20.13	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.94	20.99	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.23	21.28	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.96	21.01	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.1	20.15	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.08	20.13	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.33	20.38	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.09	20.14	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.96	19.01	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.09	20.14	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.35	20.4	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.13	20.18	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.07	19.12	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.11	20.16	38.45	PASS

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Band5	5MHz	16QAM	20625	1RB#12	23.48	20.53	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.13	20.18	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.08	19.13	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22	19.05	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.29	19.34	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.05	19.1	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.96	18.01	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.04	19.09	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.42	19.47	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.05	19.1	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	21.08	18.13	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.13	19.18	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.43	19.48	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.12	19.17	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	21.08	18.13	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.95	21	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.06	21.11	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24	21.05	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	23.12	20.17	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.04	21.09	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.16	21.21	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.07	21.12	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.14	20.19	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.13	21.18	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.16	21.21	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.09	21.14	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.23	20.28	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.25	20.3	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.36	20.41	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.18	20.23	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.06	19.11	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.32	20.37	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.43	20.48	38.45	PASS

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Band5	10MHz	16QAM	20525	50RB#0	22.12	19.17	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.34	20.39	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.25	20.3	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.34	20.39	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.2	19.25	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.11	19.16	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.18	19.23	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.1	19.15	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	21.07	18.12	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.16	19.21	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.23	19.28	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.17	19.22	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	21.13	18.18	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	22.27	19.32	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.18	19.23	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.19	19.24	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	21.2	18.25	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
Band5	10MHz	QPSK	20450	50RB#0	4.66	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.88	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.88	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.36	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.76	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.62	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	5.88	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.14	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.04	13	PASS

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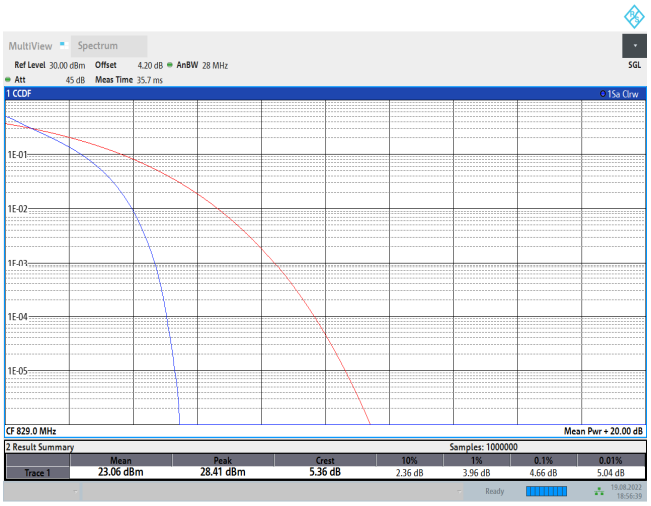
Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



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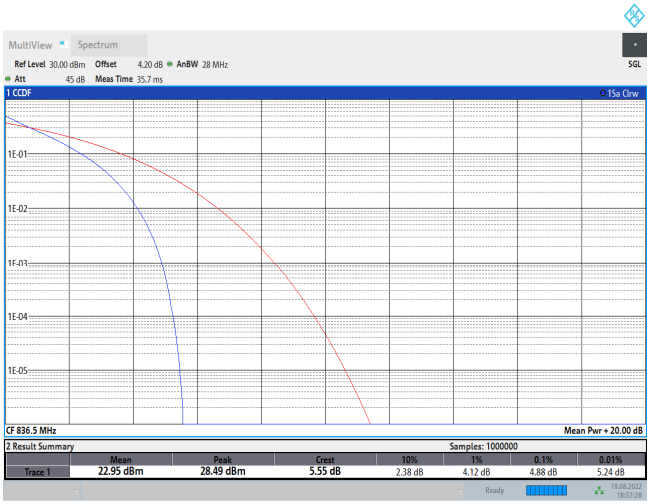

18:57:29 19.08.2022

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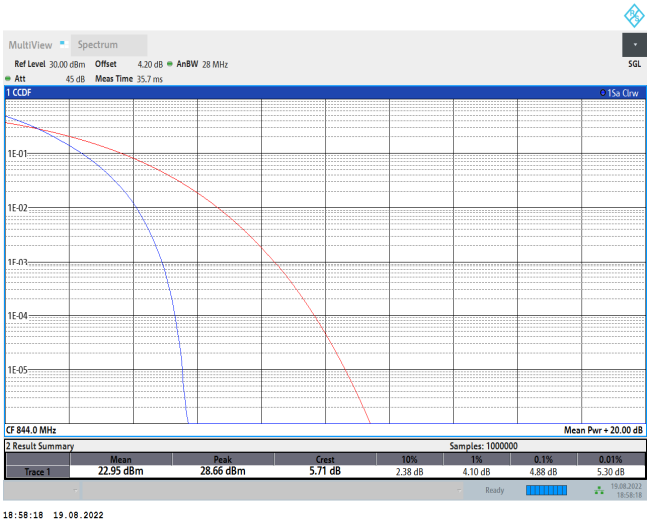
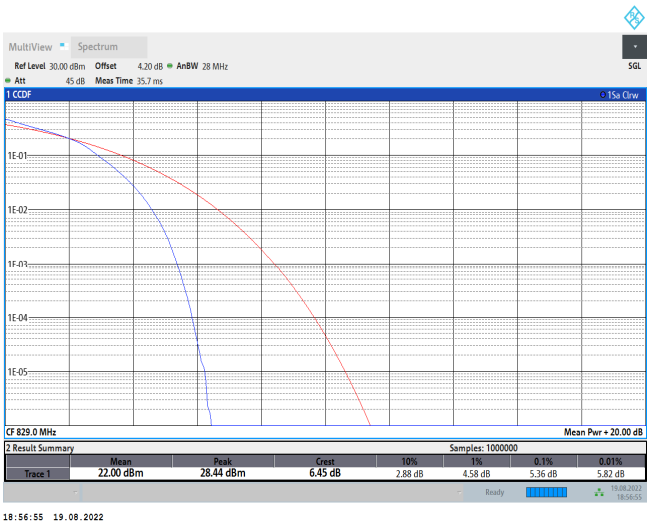
Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



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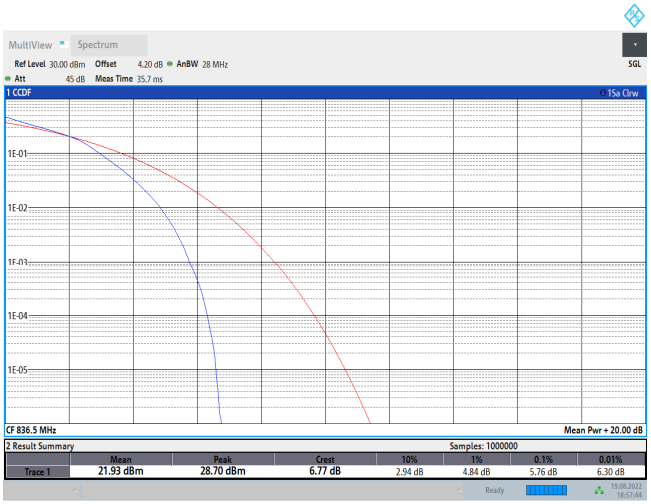
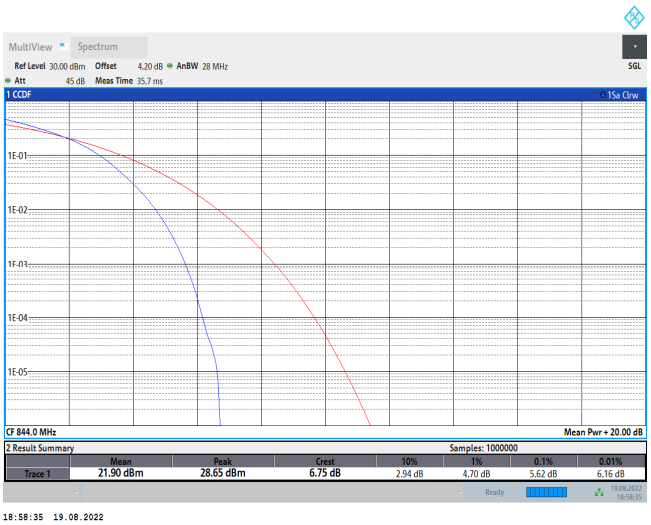
Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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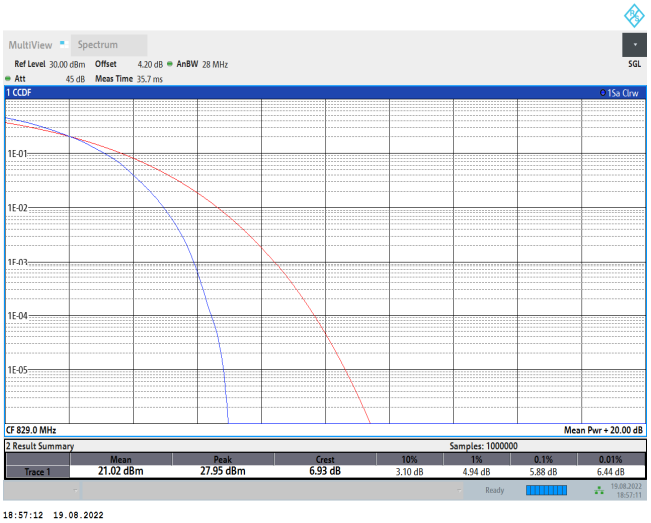
Band5-10MHz-64QAM-20450-50RB#0



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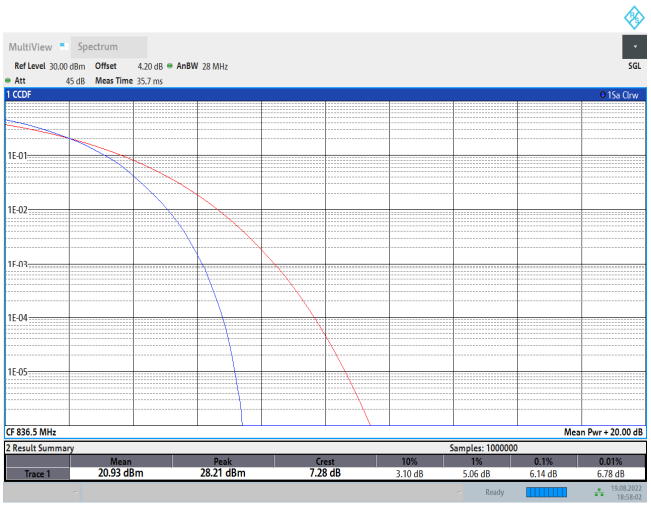
Band5-10MHz-64QAM-20525-50RB#0



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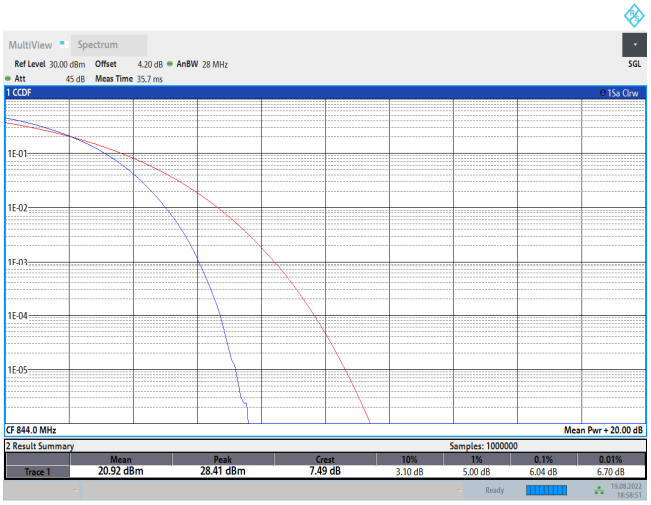
Band5-10MHz-64QAM-20600-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS

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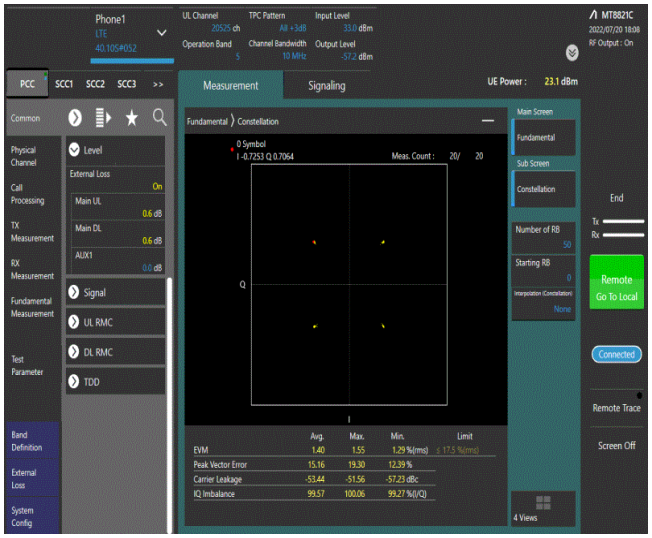
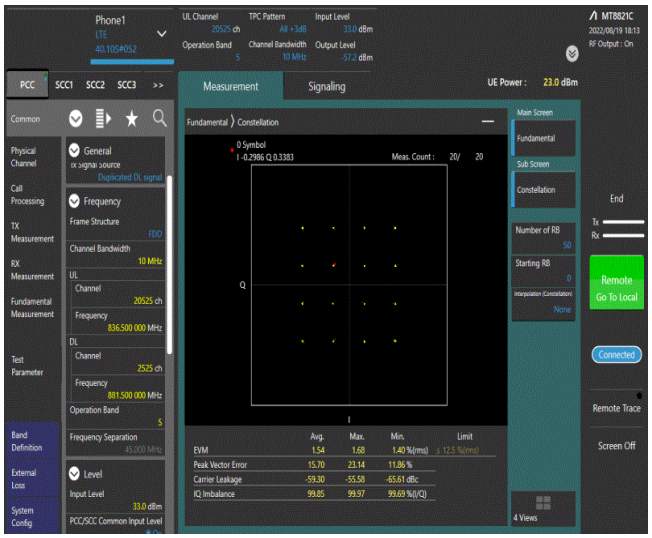
Test Graphs

Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



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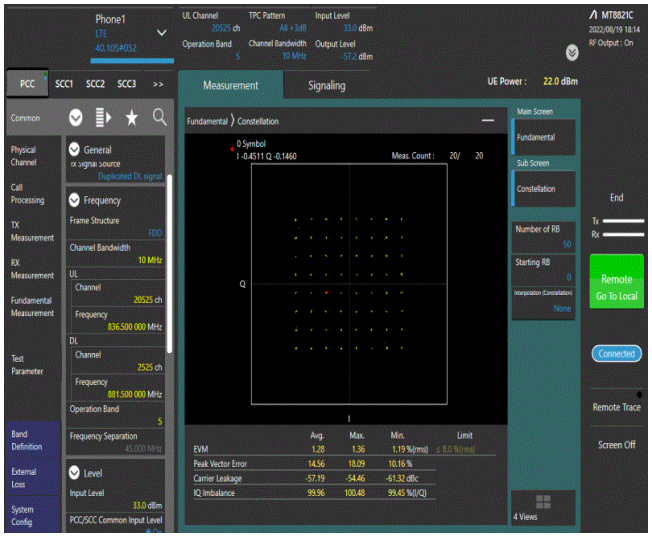

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.084	1.28	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.084	1.27	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.086	1.29	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.098	1.31	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.095	1.31	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.099	1.31	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.102	1.34	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.095	1.31	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.096	1.32	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.689	2.90	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.684	2.92	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.686	2.90	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.678	2.90	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.676	2.90	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.675	2.90	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.682	2.89	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.682	2.90	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.68	2.89	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.478	5.06	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.472	5.02	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.47	4.97	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.473	5.04	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.467	5.04	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.47	5.02	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.488	5.04	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.48	5.02	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.476	5.01	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.954	9.88	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.945	9.86	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.964	9.88	PASS

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Band5	10MHz	16QAM	20450	50RB#0	8.937	9.84	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.917	9.72	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.934	9.88	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.958	9.88	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.934	9.78	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.946	9.88	PASS

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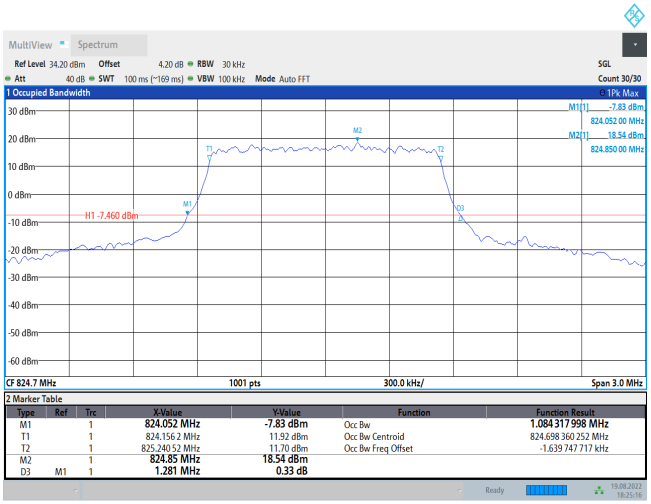
Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



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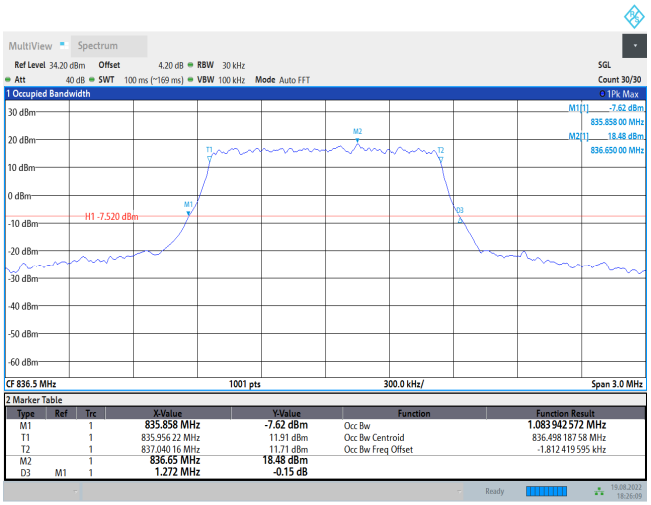
Band5-1.4MHz-QPSK-20525-6RB#0



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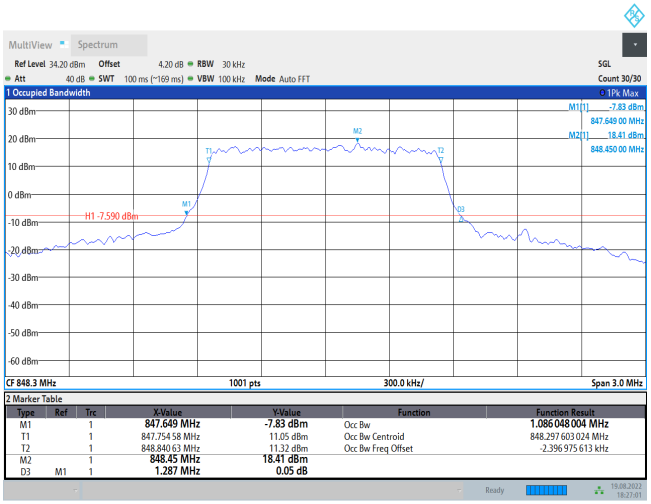
Band5-1.4MHz-QPSK-20643-6RB#0



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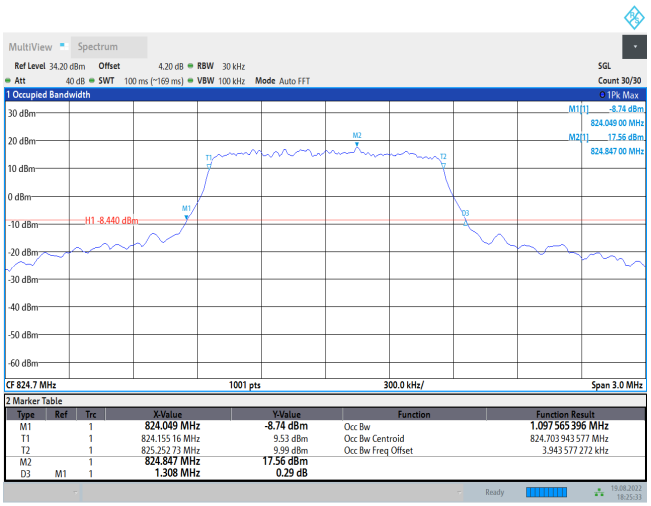

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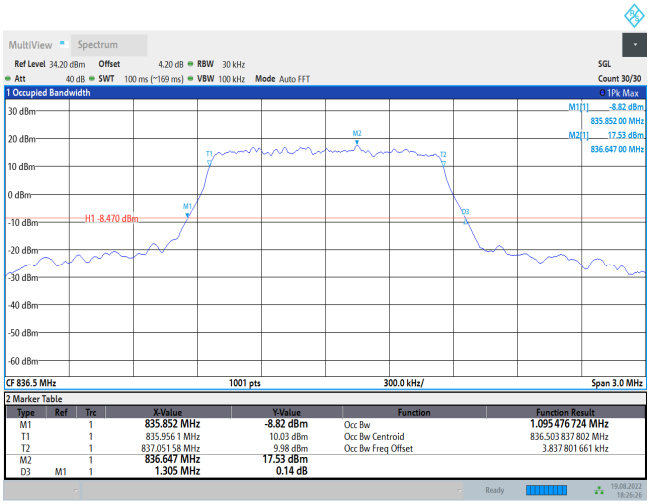
Band5-1.4MHz-16QAM-20525-6RB#0



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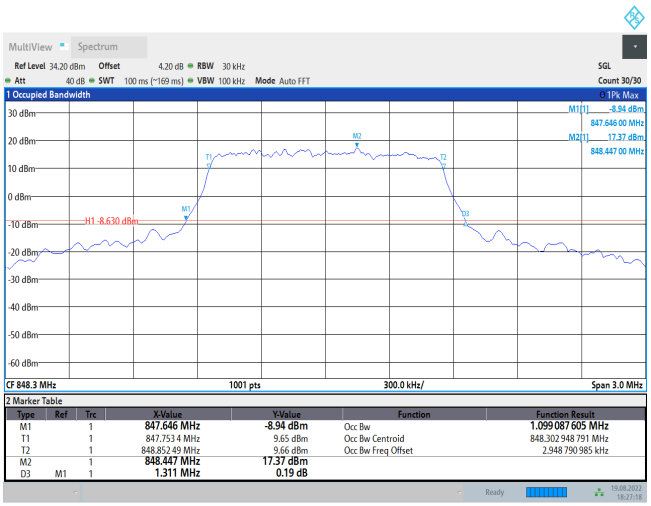
Band5-1.4MHz-16QAM-20643-6RB#0



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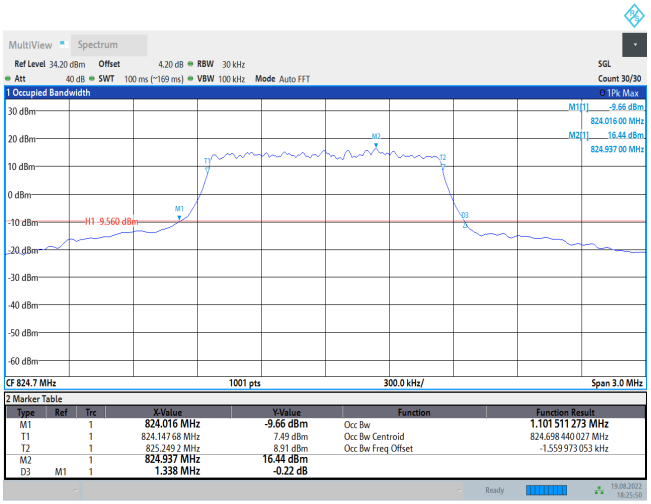
Band5-1.4MHz-64QAM-20407-6RB#0



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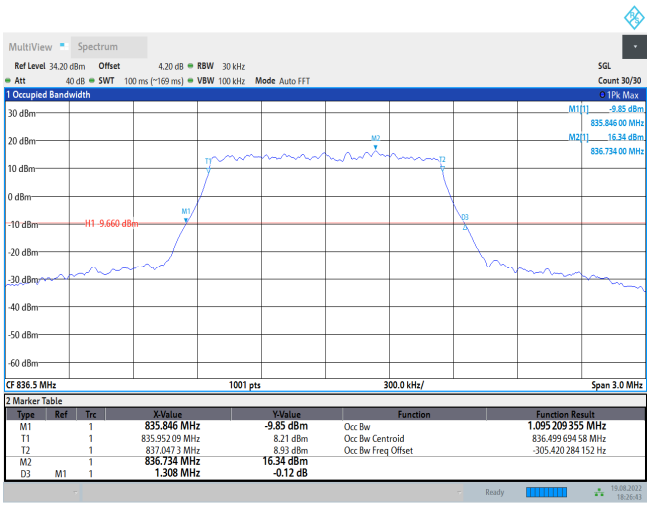

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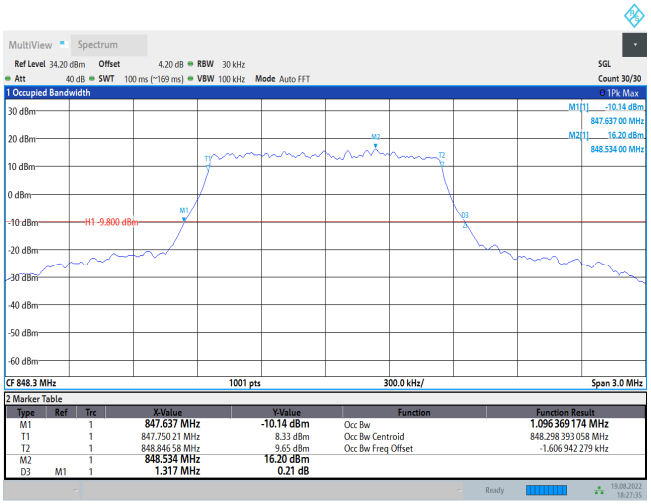

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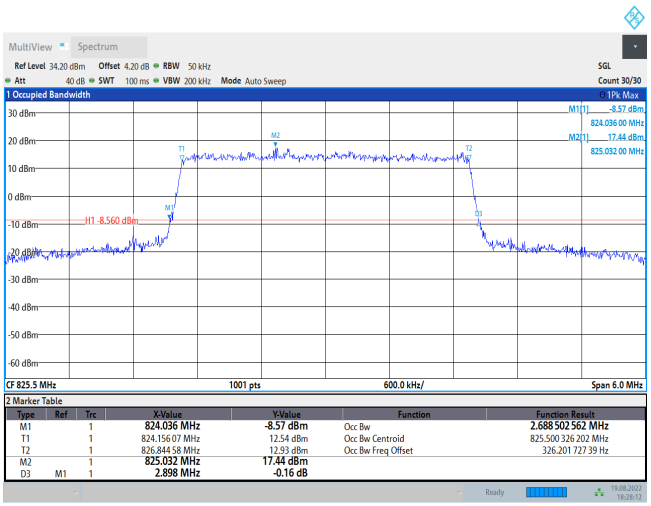
Band5-3MHz-QPSK-20415-15RB#0



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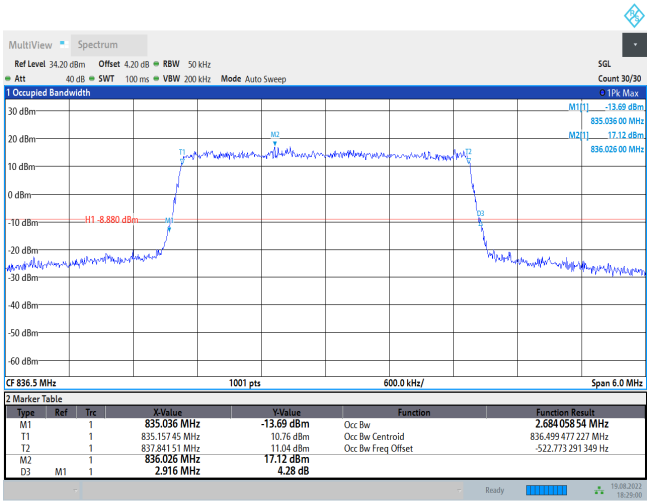
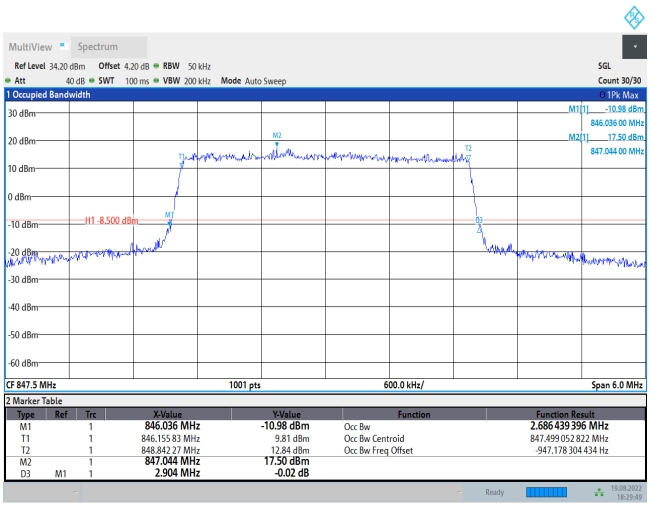
Band5-3MHz-QPSK-20525-15RB#0



Band5-3MHz-QPSK-20635-15RB#0



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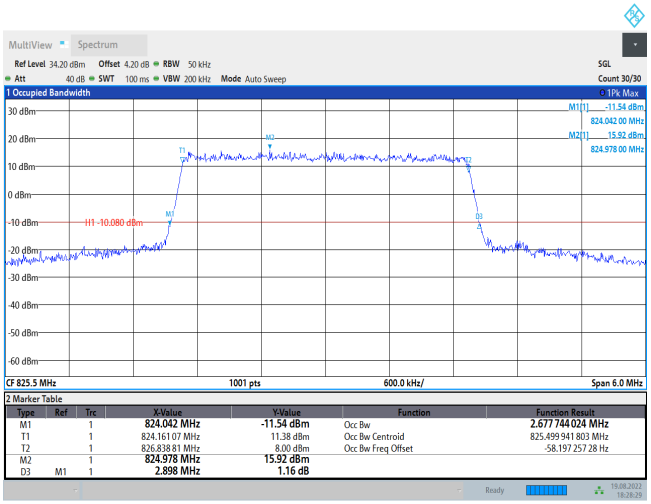
Band5-3MHz-16QAM-20415-15RB#0



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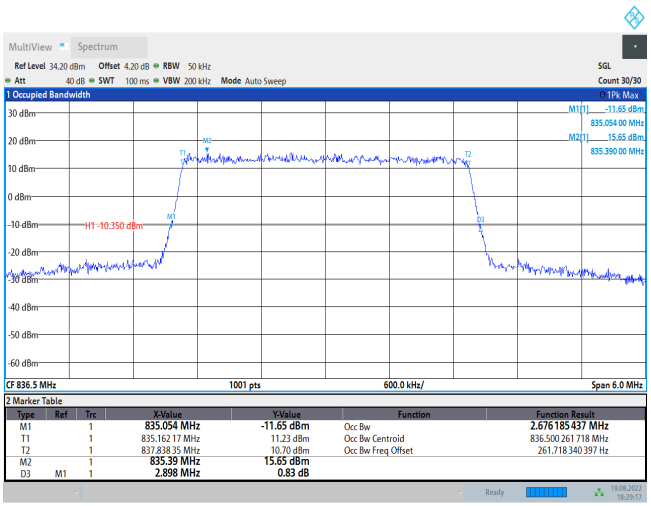
Band5-3MHz-16QAM-20525-15RB#0



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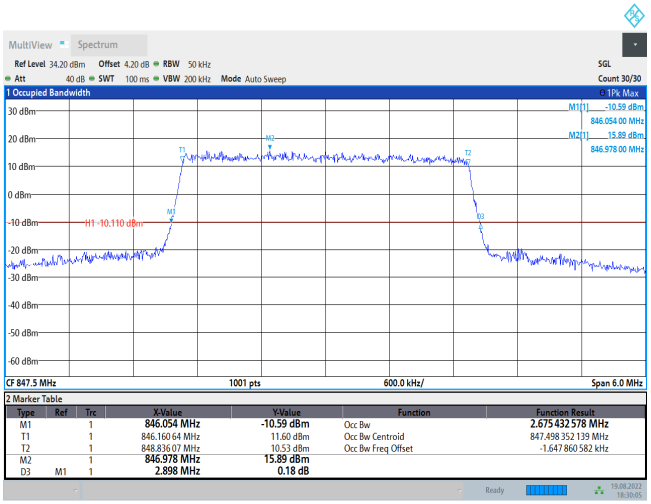
Band5-3MHz-16QAM-20635-15RB#0



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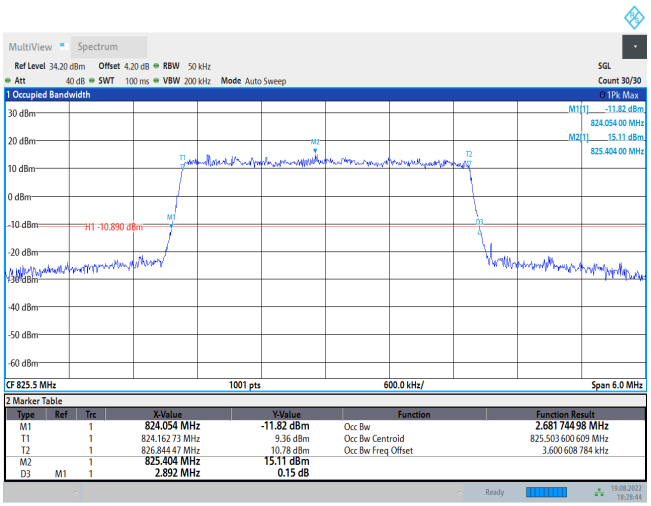

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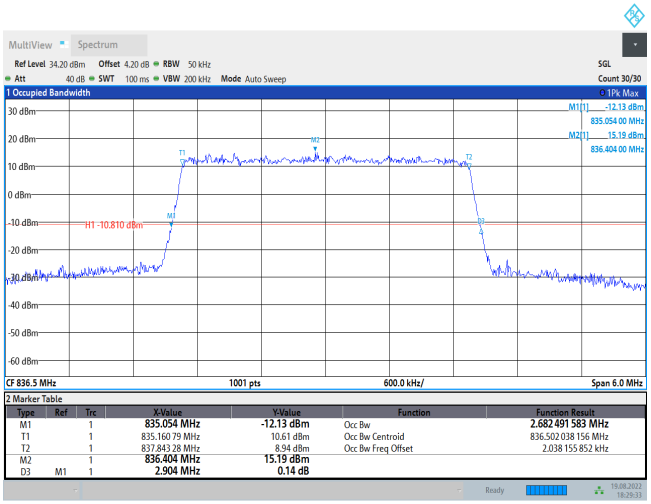
Band5-3MHz-64QAM-20525-15RB#0



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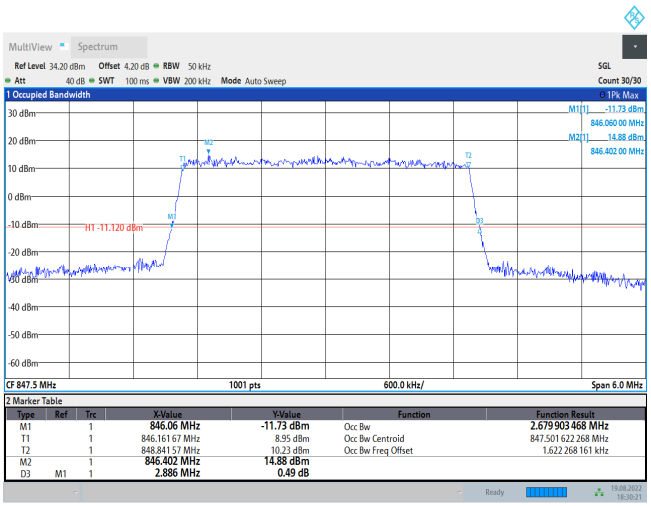

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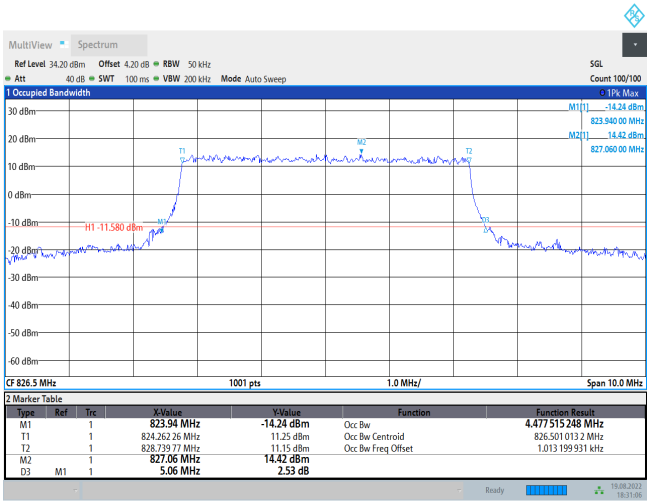
Band5-5MHz-QPSK-20425-25RB#0



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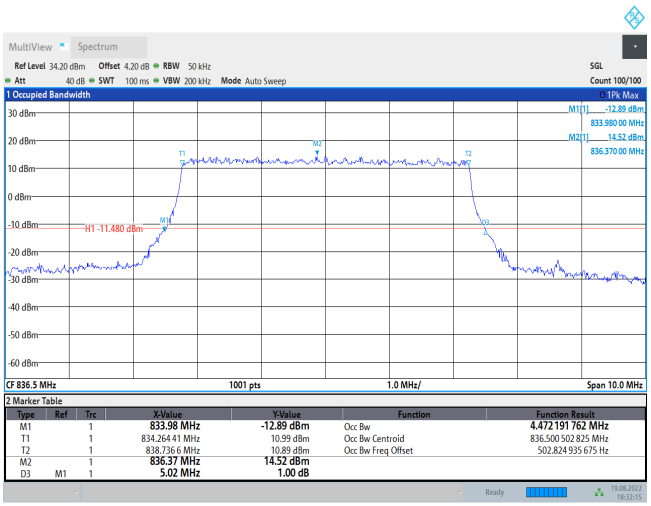

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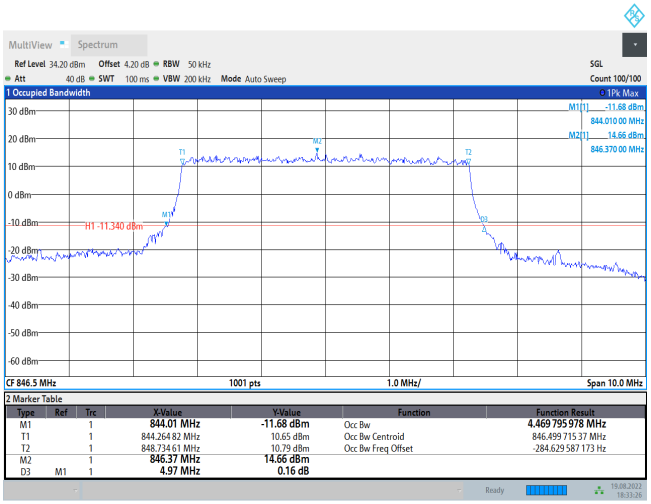
Band5-5MHz-QPSK-20625-25RB#0



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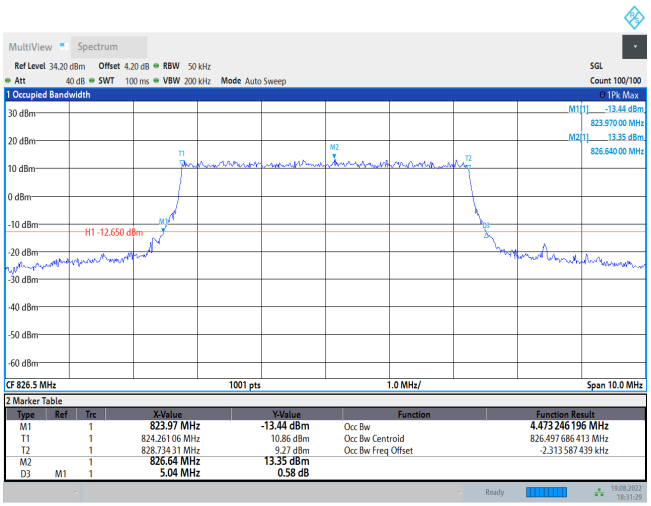

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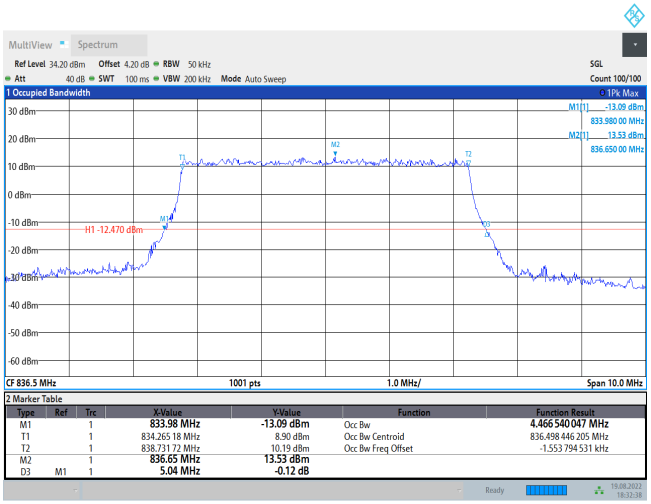

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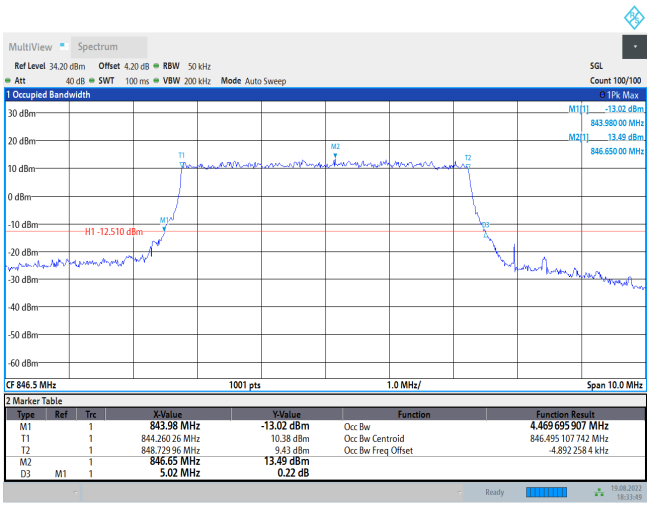

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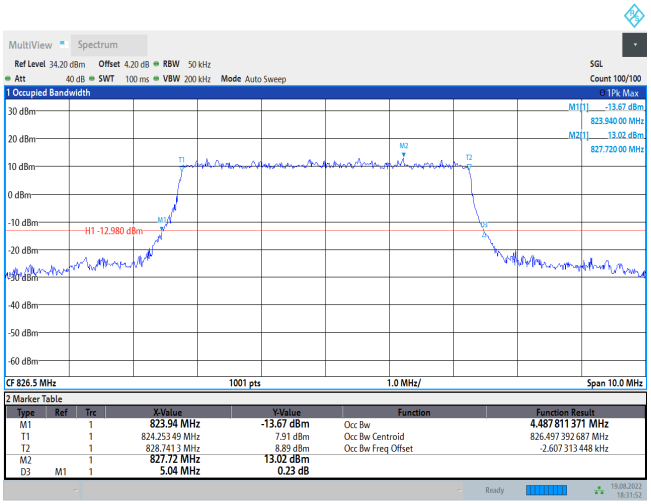
Band5-5MHz-64QAM-20425-25RB#0



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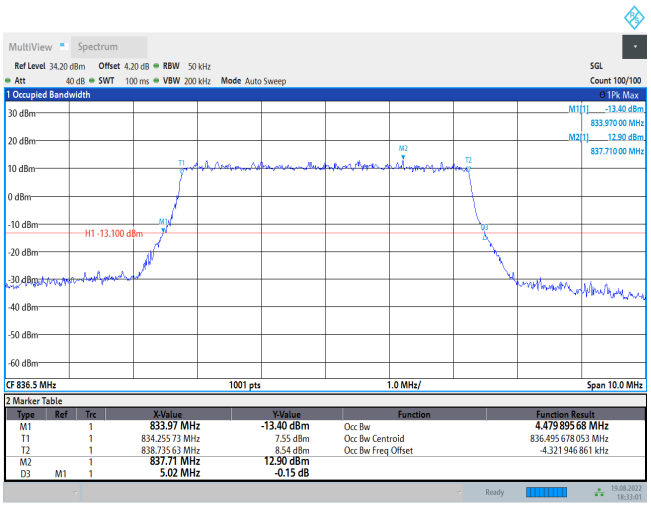
Band5-5MHz-64QAM-20525-25RB#0



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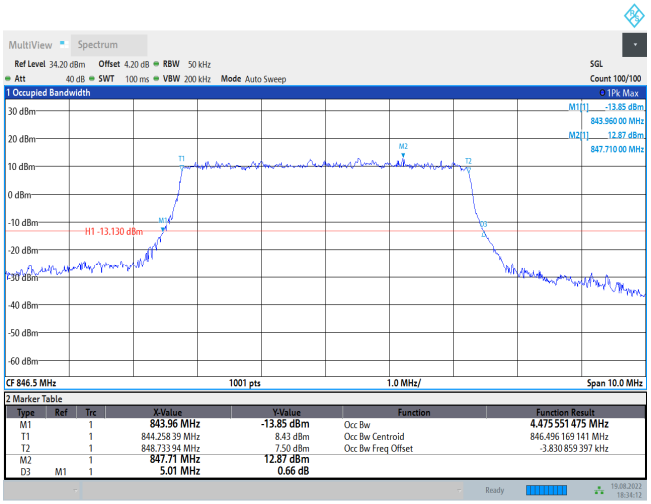
Band5-5MHz-64QAM-20625-25RB#0



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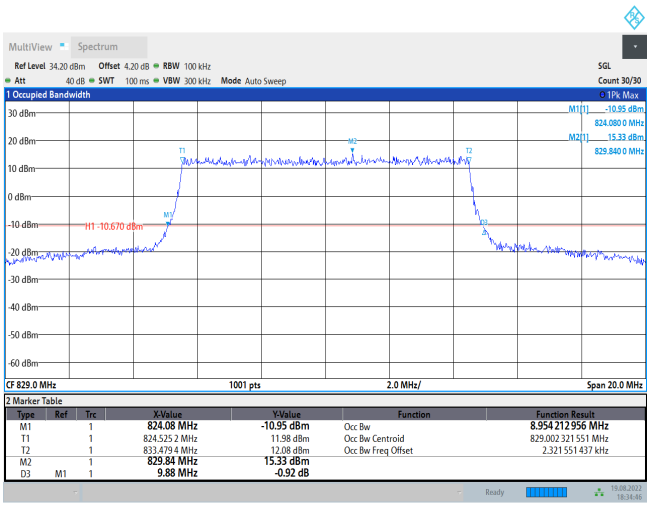

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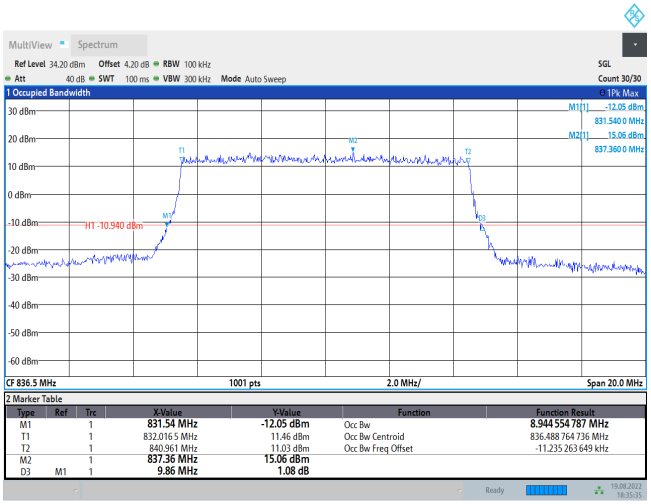
Band5-10MHz-QPSK-20525-50RB#0



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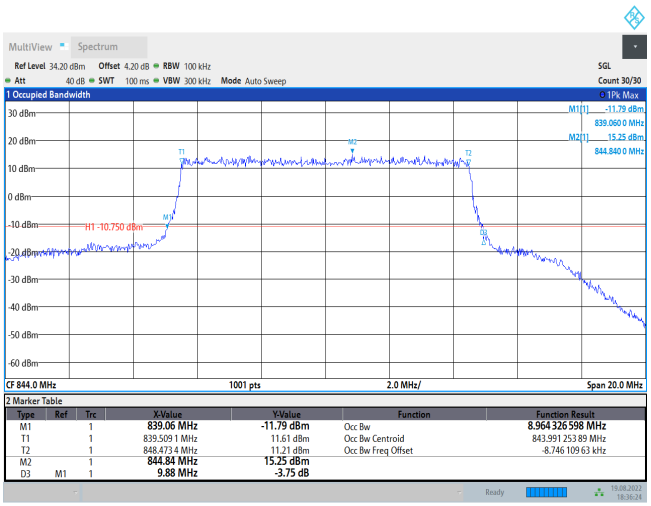

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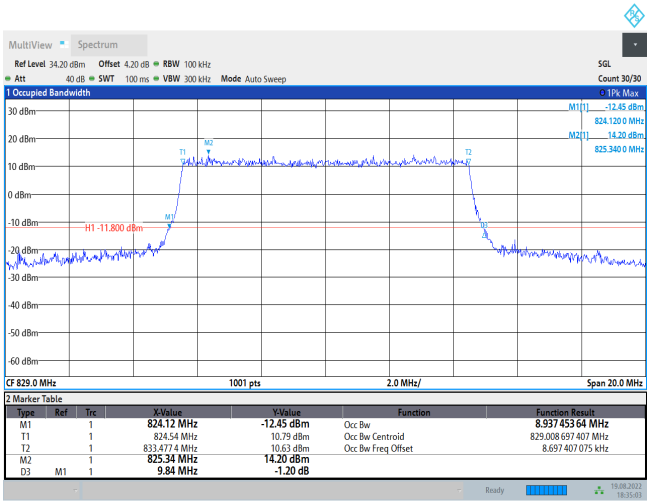
Band5-10MHz-16QAM-20450-50RB#0



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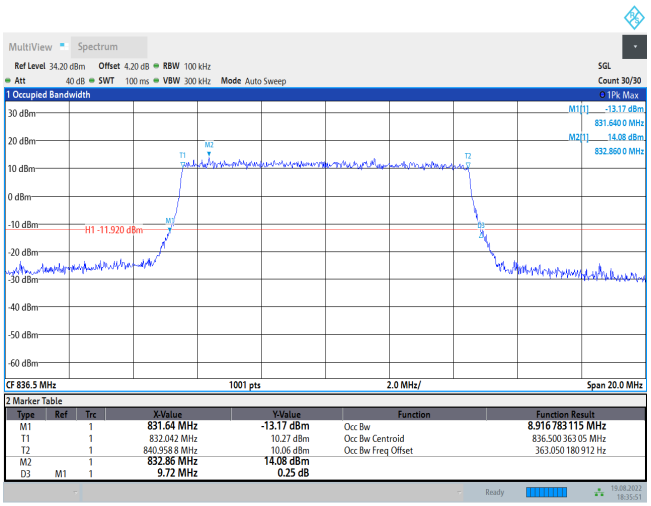

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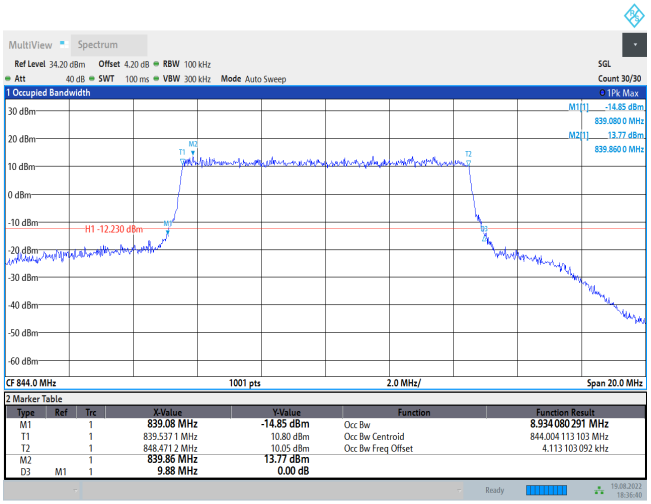

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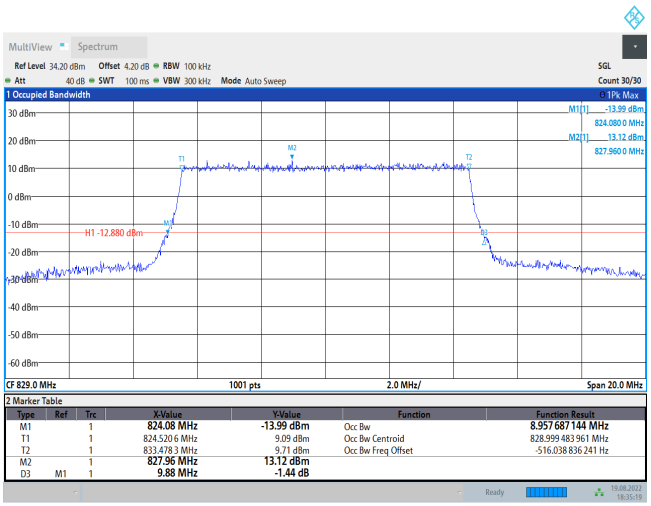

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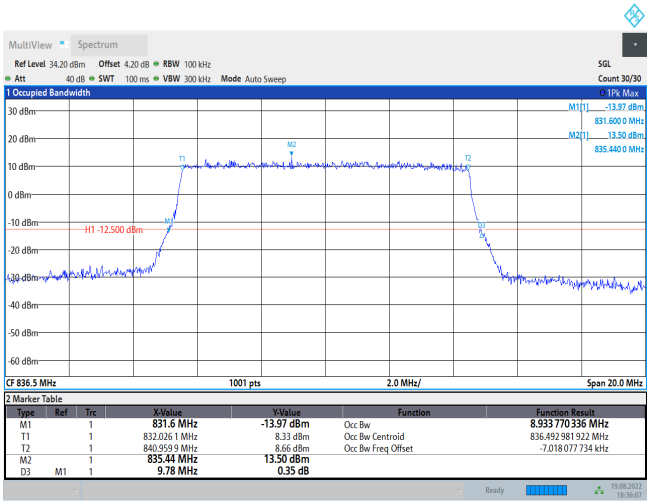
Band5-10MHz-64QAM-20525-50RB#0



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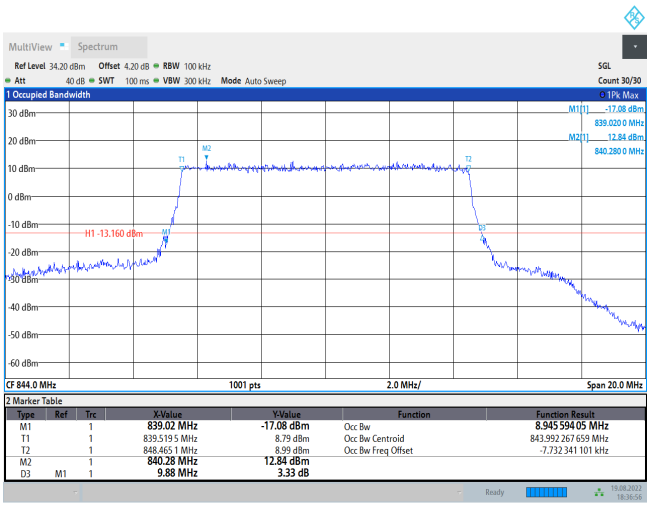

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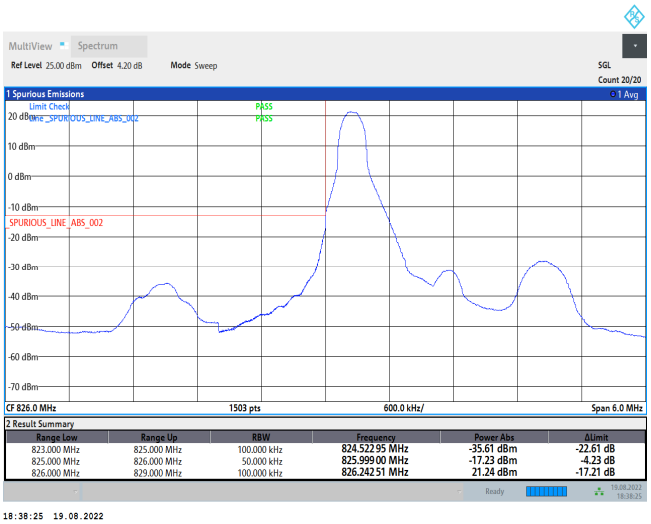
Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



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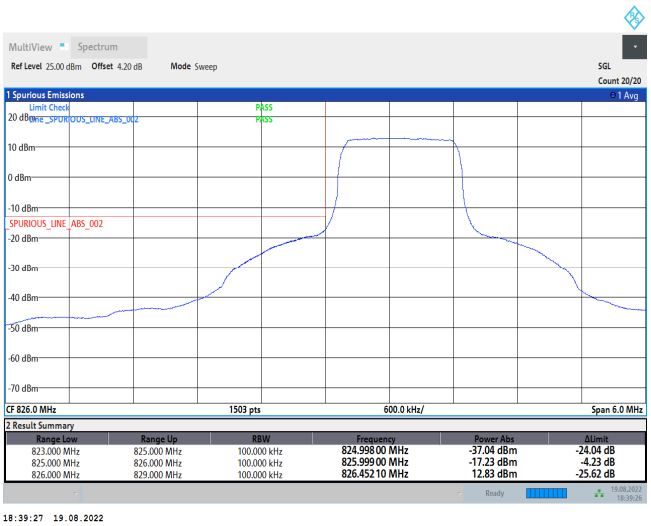

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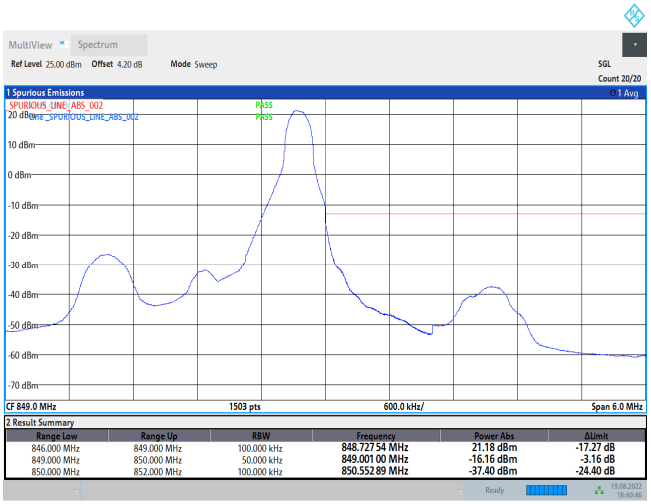

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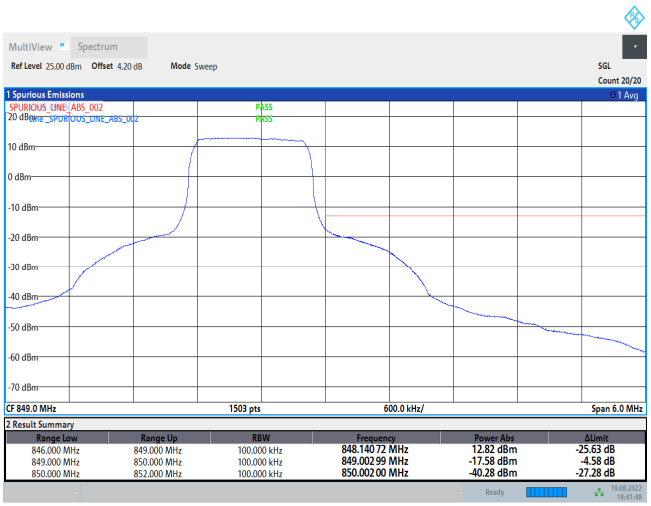

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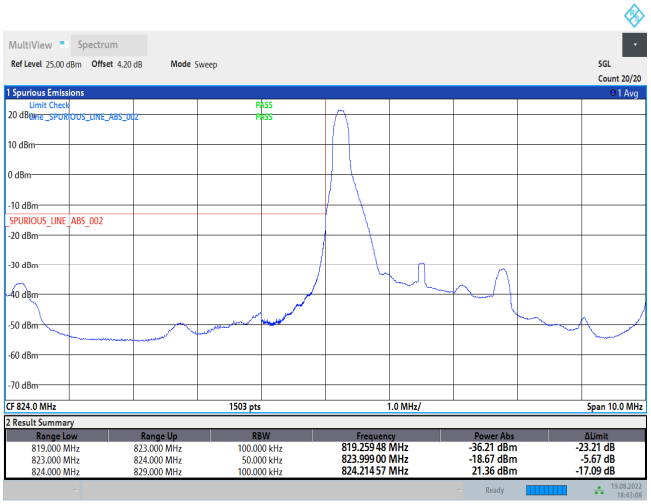
Band5-3MHz-QPSK-20415-1RB#0



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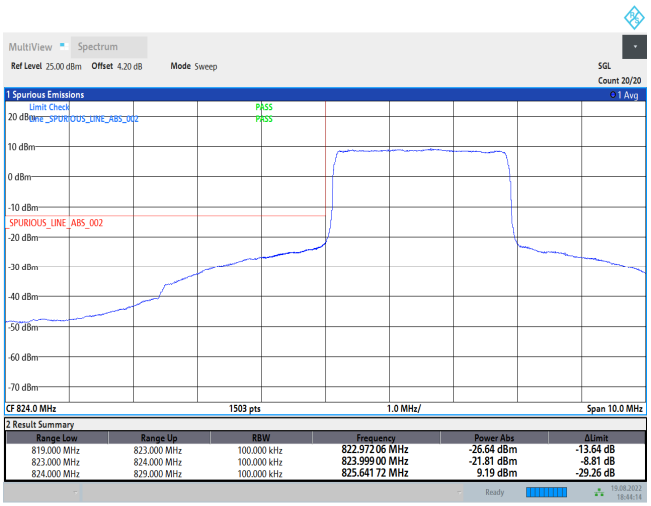

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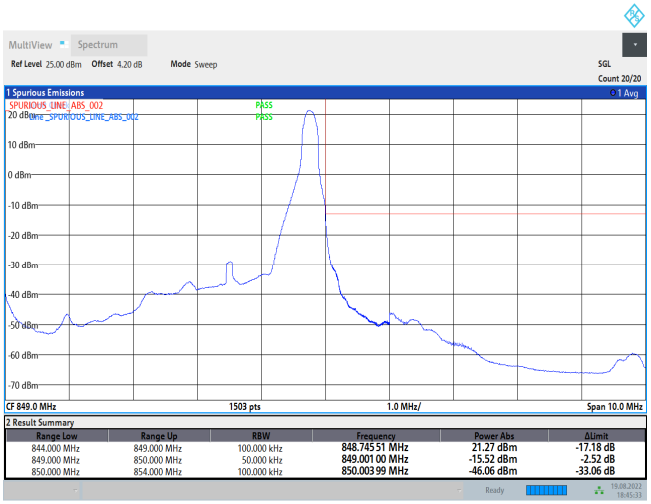
Band5-3MHz-QPSK-20635-1RB#14



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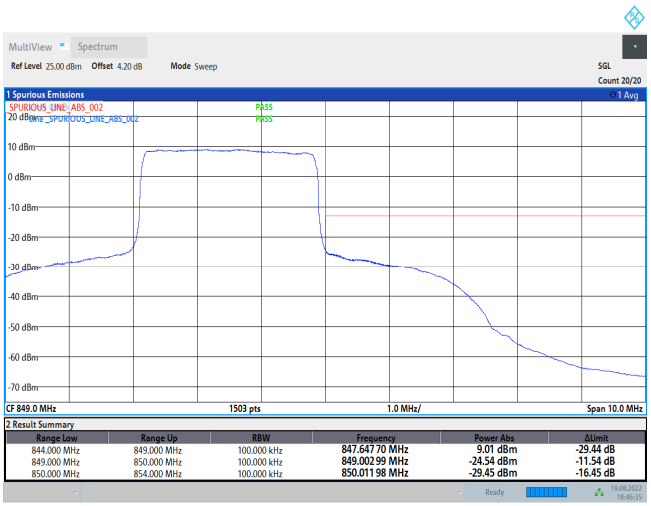
Band5-3MHz-QPSK-20635-15RB#0



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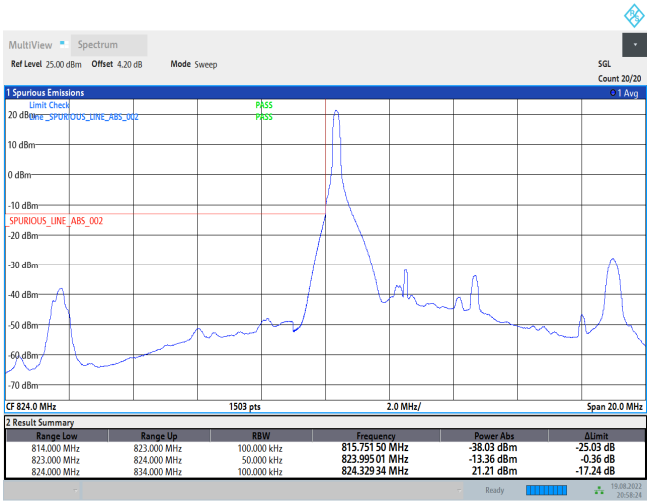
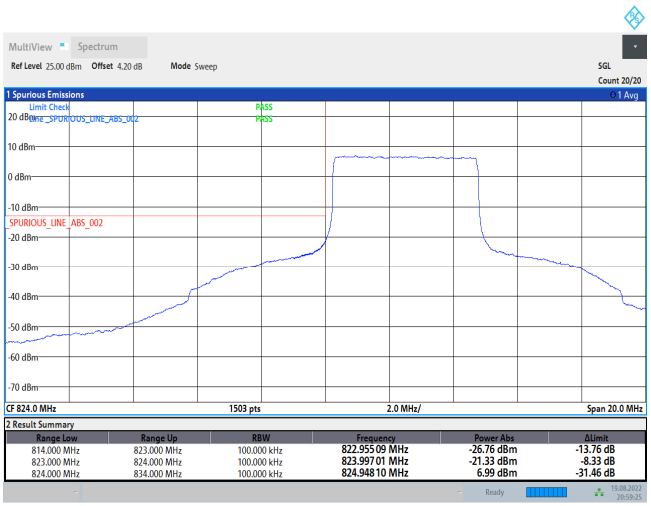
Band5-5MHz-QPSK-20425-1RB#0



20:58:24 19.08.2022

Band5-5MHz-QPSK-20425-25RB#0



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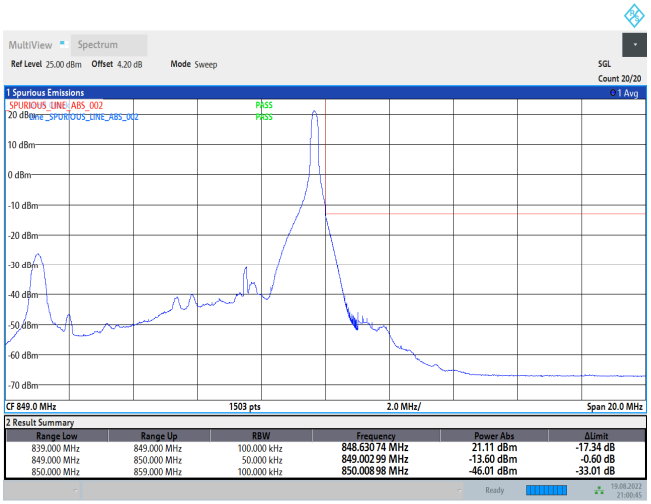
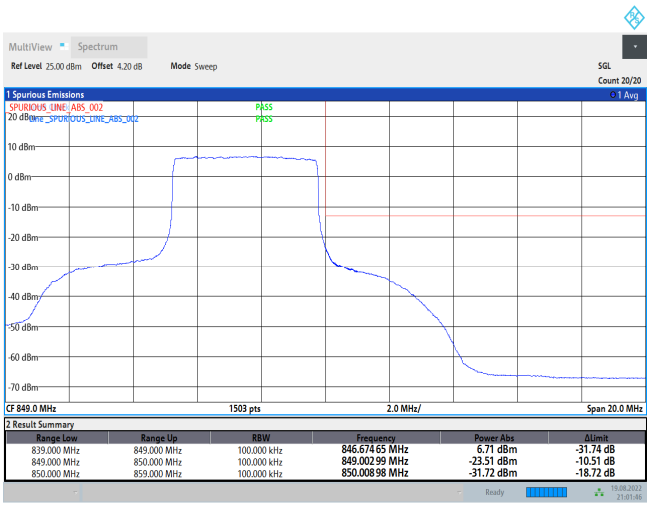
Band5-5MHz-QPSK-20625-1RB#24



Band5-5MHz-QPSK-20625-25RB#0



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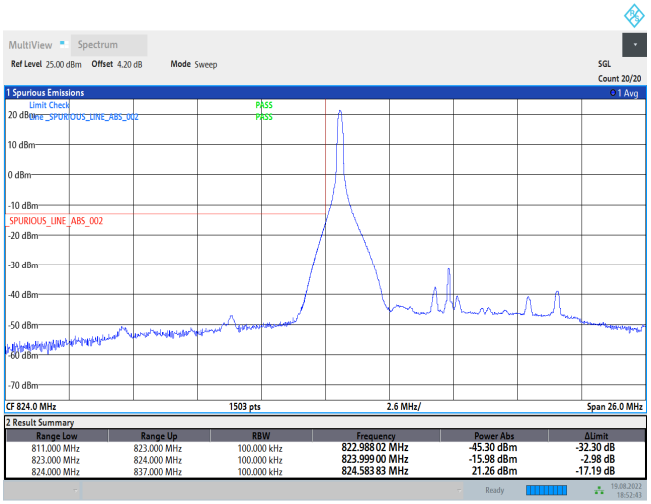
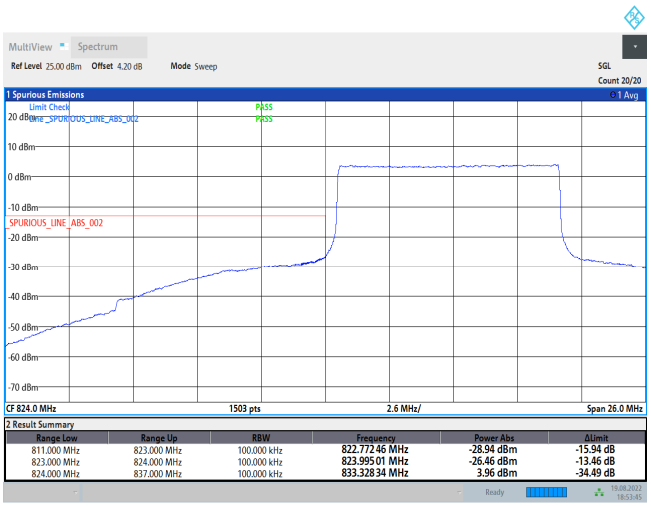
Band5-10MHz-QPSK-20450-1RB#0



Band5-10MHz-QPSK-20450-50RB#0



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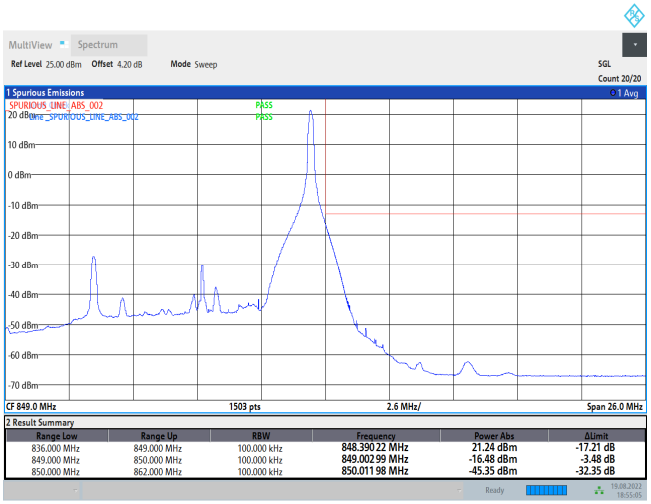
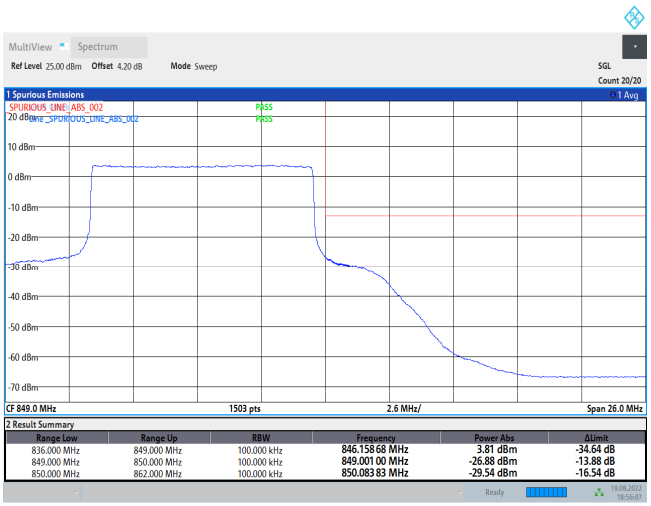
Band5-10MHz-QPSK-20600-1RB#49



Band5-10MHz-QPSK-20600-50RB#0



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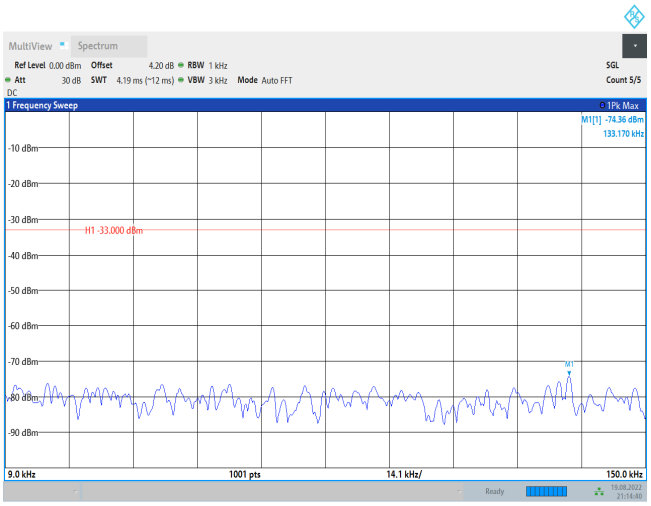
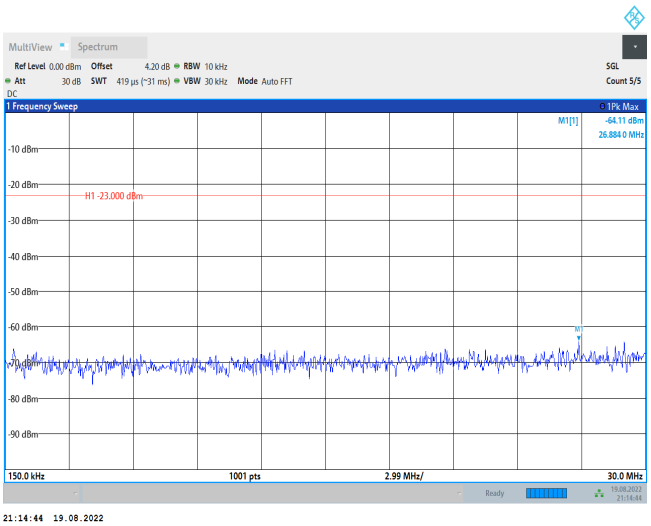
Conducted Spurious Emission

Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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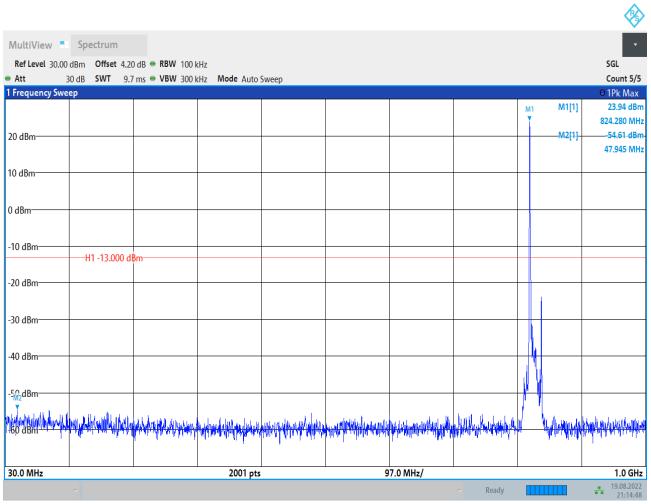
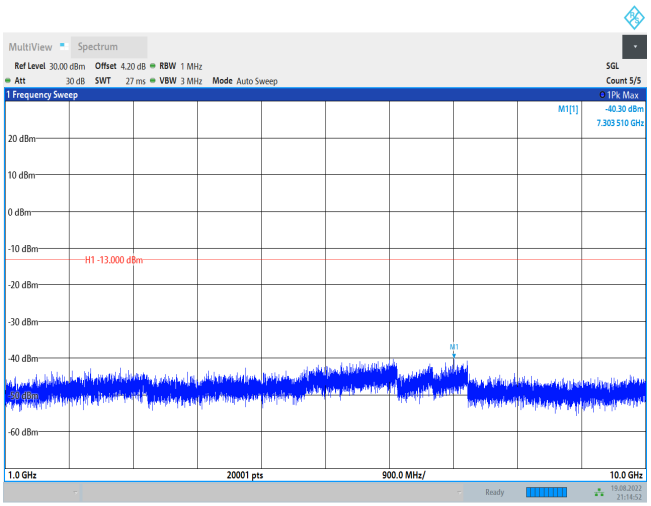
Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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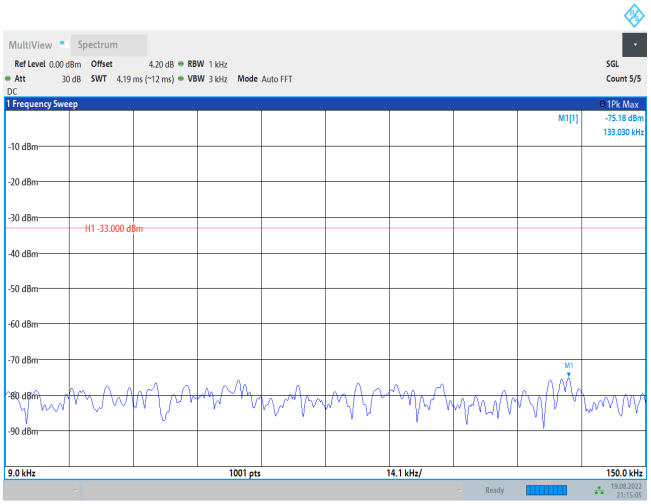
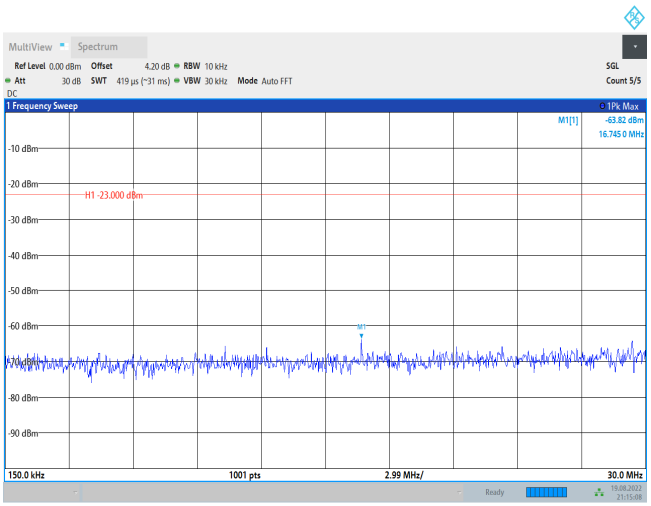
Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



21:15:05 19.08.2022

Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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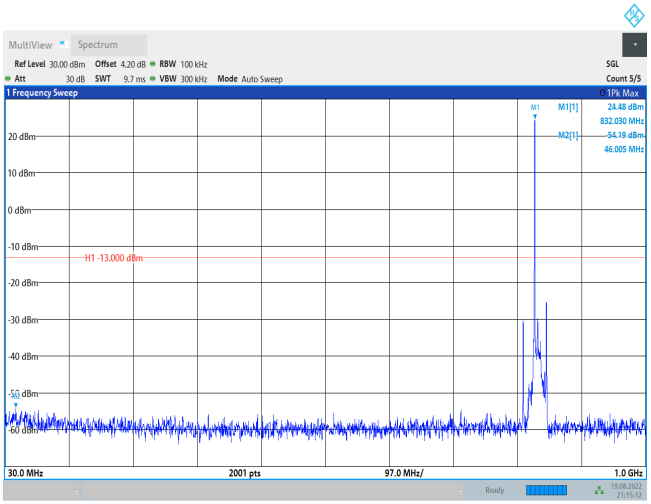
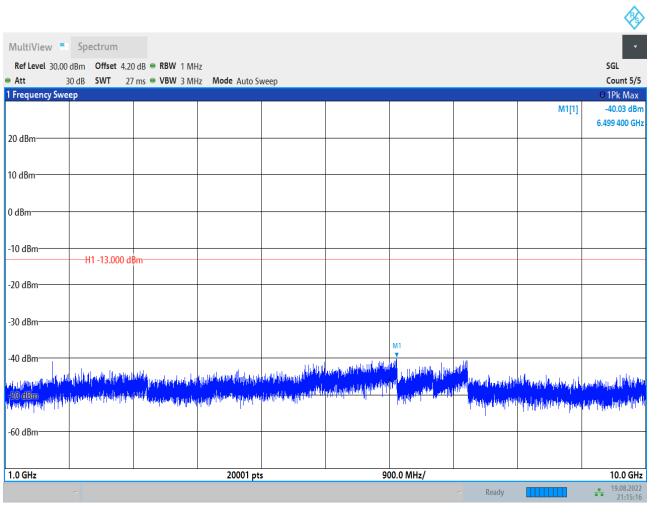
Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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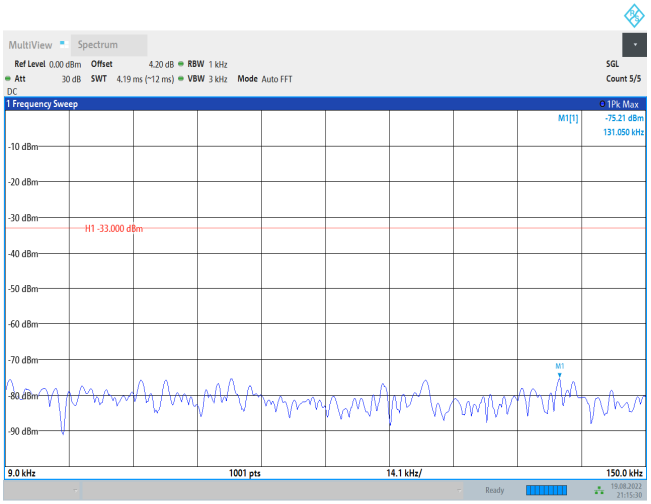
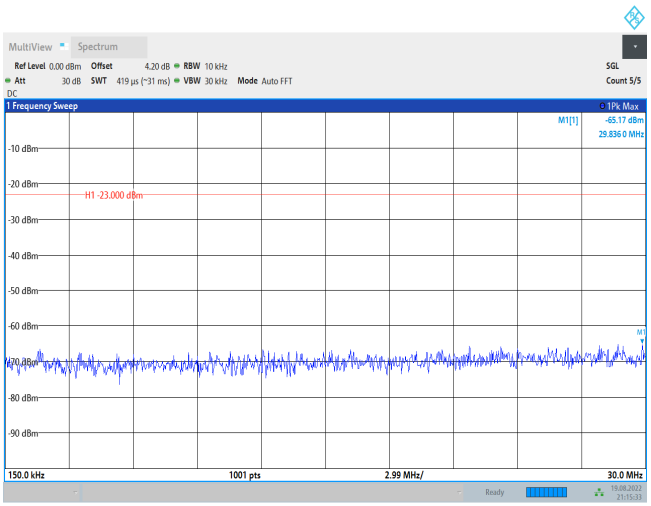
Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



21:15:30 19.08.2022

Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



21:15:34 19.08.2022

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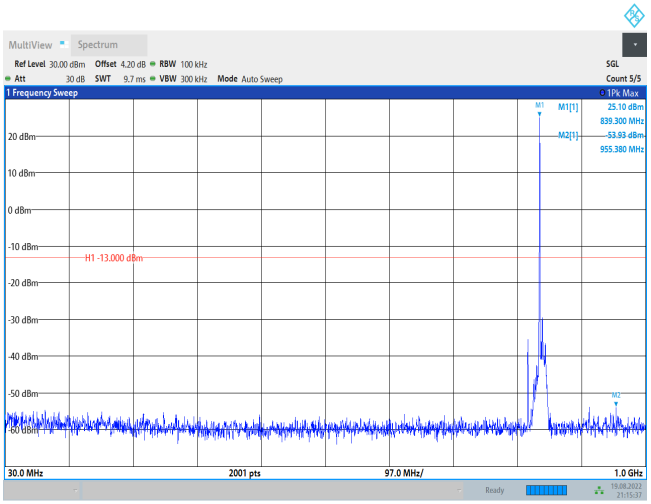
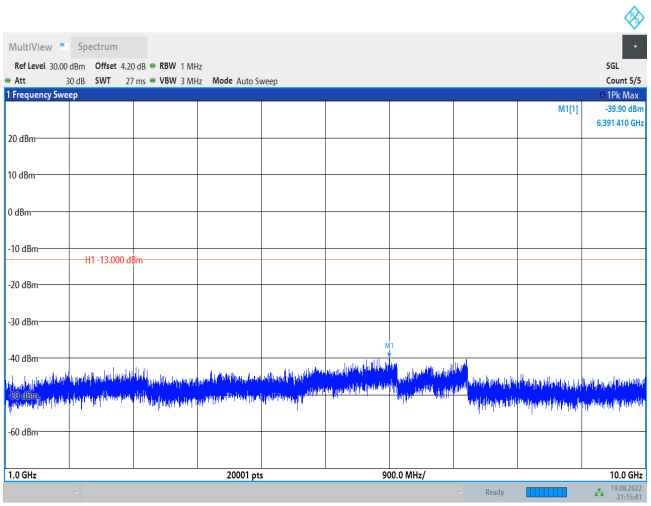
Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ 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	1649.1800	56.34	-48.22	25.37	-61.77	-13.00	48.77	215	94	Horizontal
2	2473.7700	51.00	-47.32	27.69	-63.89	-13.00	50.89	236	270	Horizontal
3	3298.3600	50.14	-46.68	29.56	-62.24	-13.00	49.24	261	360	Horizontal
4	4122.9500	49.72	-45.91	30.99	-60.47	-13.00	47.47	145	55	Horizontal
5	4947.5400	48.59	-45.69	32.73	-59.63	-13.00	46.63	199	347	Horizontal
6	5772.1300	47.87	-44.64	33.65	-58.38	-13.00	45.38	142	257	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1800	56.73	-48.22	25.37	-61.38	-13.00	48.38	216	6	Vertical
2	2473.7700	50.83	-47.32	27.69	-64.06	-13.00	51.06	123	213	Vertical
3	3298.3600	50.47	-46.68	29.56	-61.91	-13.00	48.91	261	225	Vertical
4	4122.9500	49.85	-45.91	30.99	-60.34	-13.00	47.34	145	90	Vertical
5	4947.5400	49.48	-45.69	32.73	-58.74	-13.00	45.74	185	130	Vertical
6	5772.1300	46.86	-44.64	33.65	-59.39	-13.00	46.39	142	213	Vertical

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Test Band = LTE Band5_ 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	1664.1800	59.81	-48.20	25.38	-58.28	-13.00	45.28	154	94	Horizontal
2	2496.2700	59.43	-47.28	27.76	-55.35	-13.00	42.35	126	241	Horizontal
3	3328.3600	50.72	-46.64	29.52	-61.66	-13.00	48.66	196	308	Horizontal
4	4160.4500	49.08	-45.94	31.04	-61.08	-13.00	48.08	145	4	Horizontal
5	4992.5400	49.64	-45.79	32.86	-58.55	-13.00	45.55	172	189	Horizontal
6	5824.6300	48.13	-44.74	33.80	-58.07	-13.00	45.07	212	282	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	58.81	-48.20	25.38	-59.28	-13.00	46.28	149	6	Vertical
2	2496.2700	51.33	-47.28	27.76	-63.45	-13.00	50.45	175	2	Vertical
3	3328.3600	49.99	-46.64	29.52	-62.39	-13.00	49.39	126	6	Vertical
4	4160.4500	49.00	-45.94	31.04	-61.16	-13.00	48.16	161	0	Vertical
5	4992.5400	48.45	-45.79	32.86	-59.74	-13.00	46.74	132	213	Vertical
6	5824.6300	47.75	-44.74	33.80	-58.45	-13.00	45.45	105	171	Vertical

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Test Band = LTE Band5_ 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	1679.1800	58.39	-48.18	25.38	-59.67	-13.00	46.67	142	96	Horizontal
2	2518.7700	56.34	-47.21	27.83	-58.29	-13.00	45.29	231	232	Horizontal
3	3358.3600	50.42	-46.60	29.48	-61.96	-13.00	48.96	161	136	Horizontal
4	4197.9500	48.78	-45.96	31.10	-61.34	-13.00	48.34	125	4	Horizontal
5	5037.5400	48.24	-45.65	32.90	-59.77	-13.00	46.77	194	270	Horizontal
6	5887.1300	48.94	-44.93	33.92	-57.33	-13.00	44.33	172	299	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	59.26	-48.18	25.38	-58.80	-13.00	45.80	125	282	Vertical
2	2518.7700	54.31	-47.21	27.83	-60.32	-13.00	47.32	222	214	Vertical
3	3358.3600	50.00	-46.60	29.48	-62.38	-13.00	49.38	261	147	Vertical
4	4197.9500	48.50	-45.96	31.10	-61.62	-13.00	48.62	196	2	Vertical
5	5037.5400	48.54	-45.65	32.90	-59.47	-13.00	46.47	145	0	Vertical
6	5887.1300	48.82	-44.93	33.92	-57.45	-13.00	44.45	172	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
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-4.10	-0.004901	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-6.30	-0.007531	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.40	-0.001674	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-7.00	-0.008368	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-5.80	-0.006934	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-8.20	-0.009803	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-4.20	-0.005021	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-3.30	-0.003945	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-5.10	-0.006097	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-5.00	-0.005977	±2.5	PASS

---End of Attachment---

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