Appendix B.6

LTE Band 12

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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
Band12	1.4MHz	QPSK	23017	1RB#0	24.47	19.82	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.55	19.9	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.43	19.78	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.55	18.9	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.4	19.75	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.43	19.78	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.16	19.51	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.5	18.85	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.17	19.52	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.95	19.3	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.75	19.1	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.22	18.57	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.7	19.05	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.81	19.16	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.64	18.99	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.64	17.99	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.56	18.91	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.54	18.89	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.35	18.7	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.59	17.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.1	18.45	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.11	18.46	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.99	18.34	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.25	17.6	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.68	18.03	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.75	18.1	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22.63	17.98	34.77	PASS

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Band12	1.4MHz	64QAM	23017	6RB#0	21.54	16.89	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.55	17.9	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.61	17.96	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.42	17.77	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.49	16.84	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.39	17.74	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.47	17.82	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.14	17.49	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.39	16.74	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.56	19.91	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.48	19.83	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.47	19.82	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.55	18.9	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.5	19.85	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.33	19.68	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.06	19.41	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.35	18.7	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.17	19.52	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.96	19.31	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.84	19.19	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.02	18.37	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.73	19.08	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.61	18.96	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.63	18.98	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.54	17.89	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.51	18.86	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.31	18.66	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.3	18.65	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.42	17.77	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.08	18.43	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.01	18.36	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23	18.35	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.21	17.56	34.77	PASS

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Band12	3MHz	64QAM	23025	1RB#0	22.74	18.09	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.7	18.05	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.69	18.04	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.53	16.88	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.61	17.96	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.58	17.93	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.5	17.85	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.46	16.81	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.39	17.74	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.43	17.78	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.19	17.54	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.44	16.79	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.45	19.8	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.65	20	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.4	19.75	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.53	18.88	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.42	19.77	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.42	19.77	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.86	19.21	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.39	18.74	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.2	19.55	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.03	19.38	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.75	19.1	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.19	18.54	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.61	18.96	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.82	19.17	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.54	18.89	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.54	17.89	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.56	18.91	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.48	18.83	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.3	18.65	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.55	17.9	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.28	18.63	34.77	PASS

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Band12	5MHz	16QAM	23155	1RB#12	23.2	18.55	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.92	18.27	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.4	17.75	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.64	17.99	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.73	18.08	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.55	17.9	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.54	16.89	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.53	17.88	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.76	18.11	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.41	17.76	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.54	16.89	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.44	17.79	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.37	17.72	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.26	17.61	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.46	16.81	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.58	19.93	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.63	19.98	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.46	19.81	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.6	18.95	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.53	19.88	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.22	19.57	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.96	19.31	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.24	18.59	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.22	19.57	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.07	19.42	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.85	19.2	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.18	18.53	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.71	19.06	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.83	19.18	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.63	18.98	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.59	17.94	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.39	18.74	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.38	18.73	34.77	PASS

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Band12	10MHz	16QAM	23095	1RB#49	23.16	18.51	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.46	17.81	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.2	18.55	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.26	18.61	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.02	18.37	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.32	17.67	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.78	18.13	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.75	18.1	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.6	17.95	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.59	16.94	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.63	17.98	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.57	17.92	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.23	17.58	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.59	16.94	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.47	17.82	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.51	17.86	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.08	17.43	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.54	16.89	34.77	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.94	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.98	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.08	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.74	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.78	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.82	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.14	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.22	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.18	13	PASS

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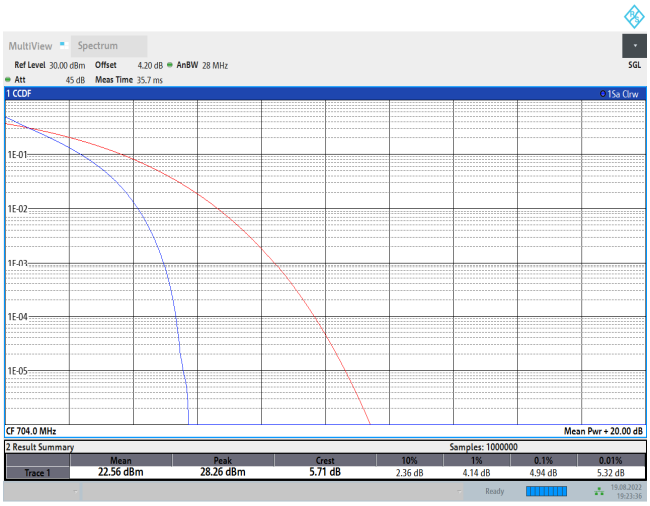
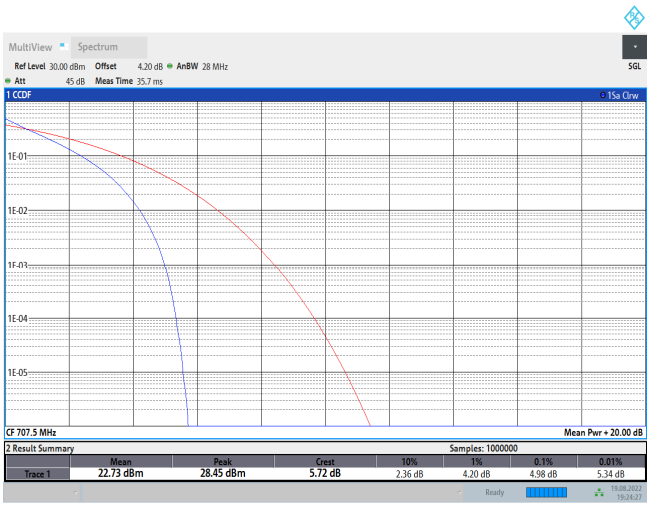
Test Graphs

Band12-10MHz-QPSK-23060-50RB#0



19:23:37 19.08.2022

Band12-10MHz-QPSK-23095-50RB#0



19:24:27 19.08.2022

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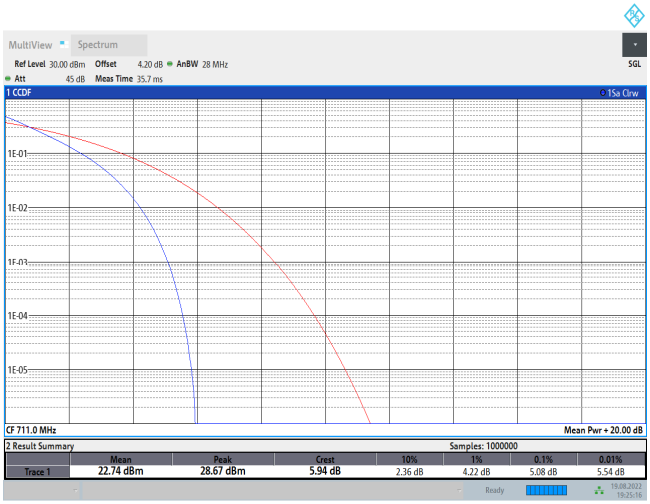
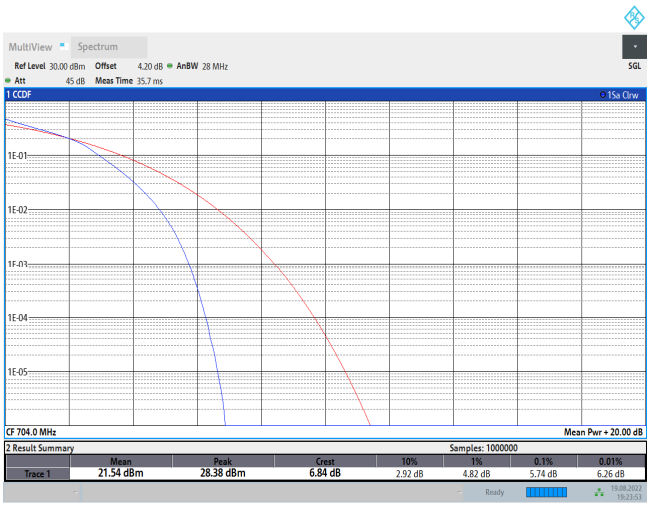
Band12-10MHz-QPSK-23130-50RB#0



19:25:17 19.08.2022

Band12-10MHz-16QAM-23060-50RB#0



19:23:53 19.08.2022

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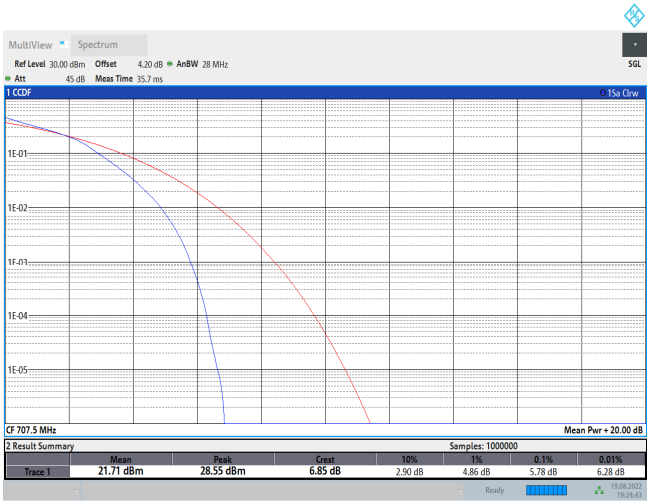
Band12-10MHz-16QAM-23095-50RB#0



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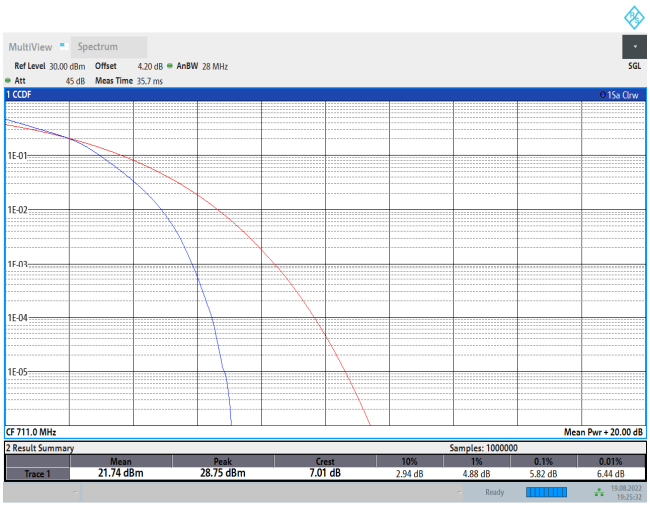
Band12-10MHz-16QAM-23130-50RB#0



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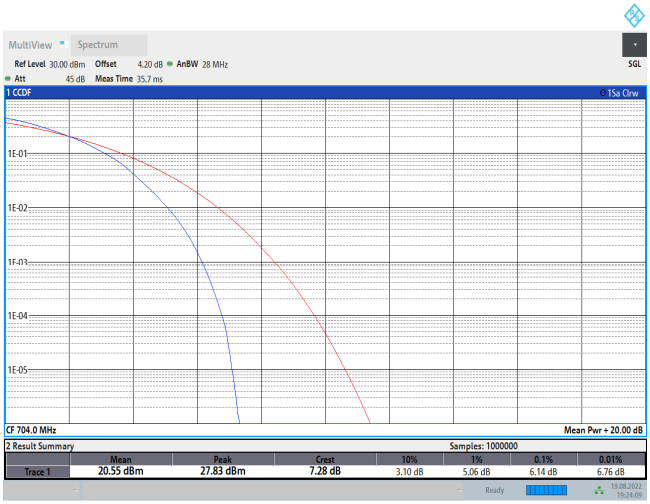
Band12-10MHz-64QAM-23060-50RB#0



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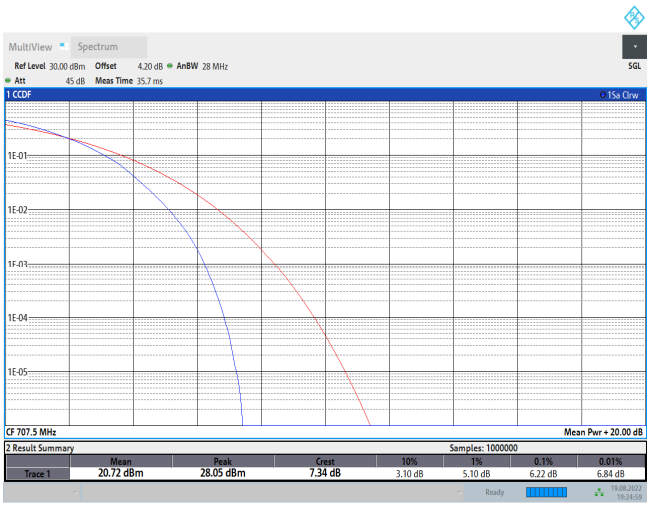
Band12-10MHz-64QAM-23095-50RB#0



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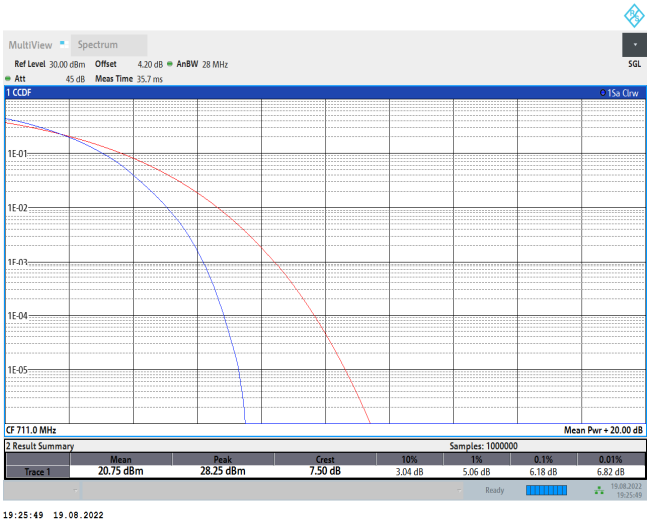
Band12-10MHz-64QAM-23130-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS

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Test Graphs

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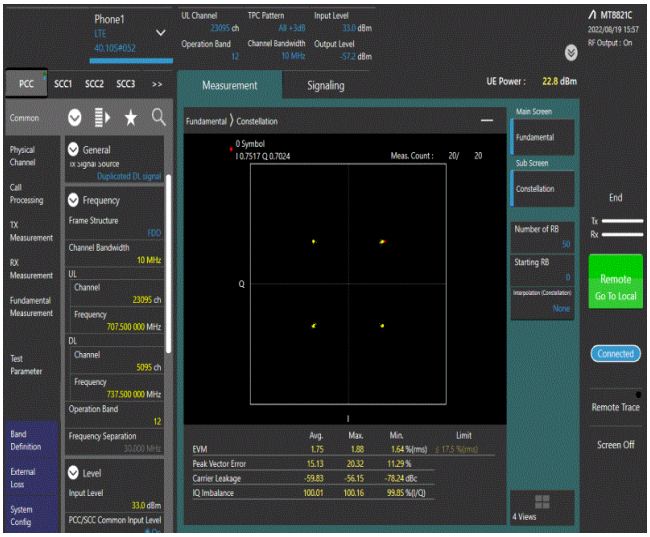

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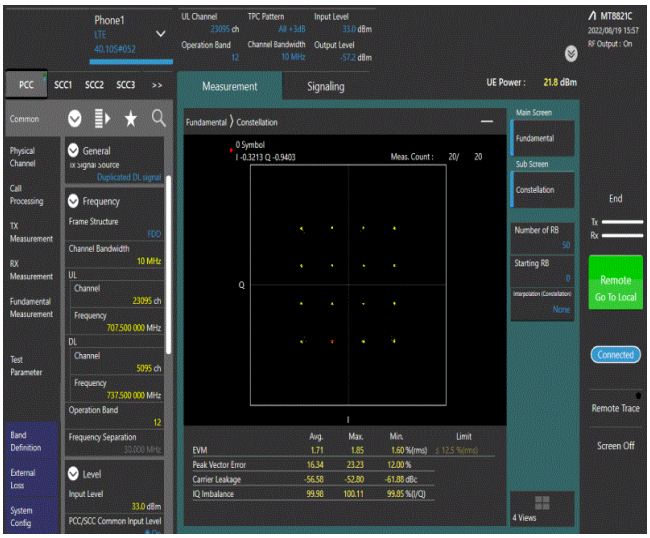

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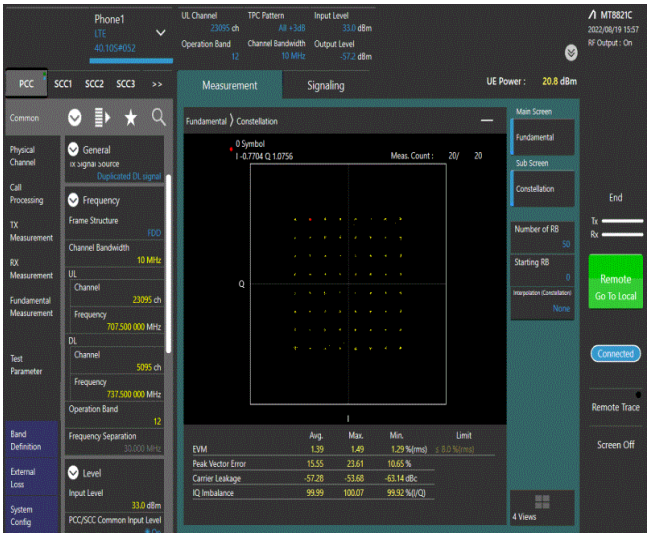

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Field Strength of Spurious Radiation

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.086	1.29	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.085	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.099	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.097	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.099	1.31	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.096	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.687	2.89	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.685	2.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.682	2.90	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.681	2.90	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.676	2.90	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.676	2.90	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.68	2.89	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.678	2.89	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.68	2.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.478	5.01	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	5.04	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.474	5.02	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.475	5.06	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.475	5.02	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.469	5.02	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.485	5.02	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.488	5.05	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.484	5.01	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.943	9.82	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.952	9.86	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.944	9.96	PASS

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Band12	10MHz	16QAM	23060	50RB#0	8.918	9.80	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.931	9.78	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.925	9.86	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.929	9.86	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.95	9.84	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.944	9.90	PASS

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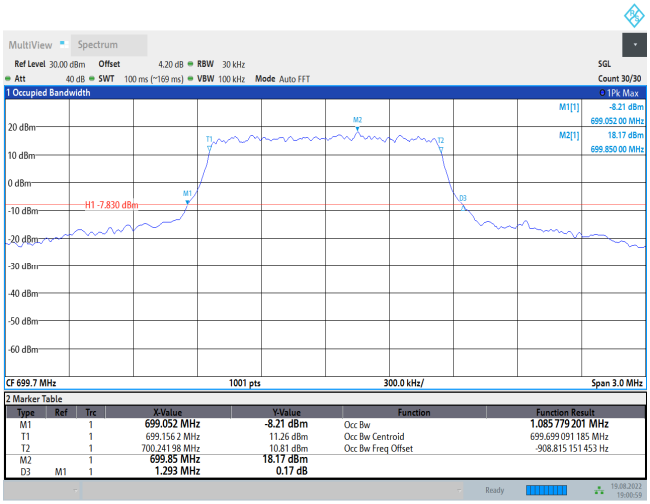
Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0



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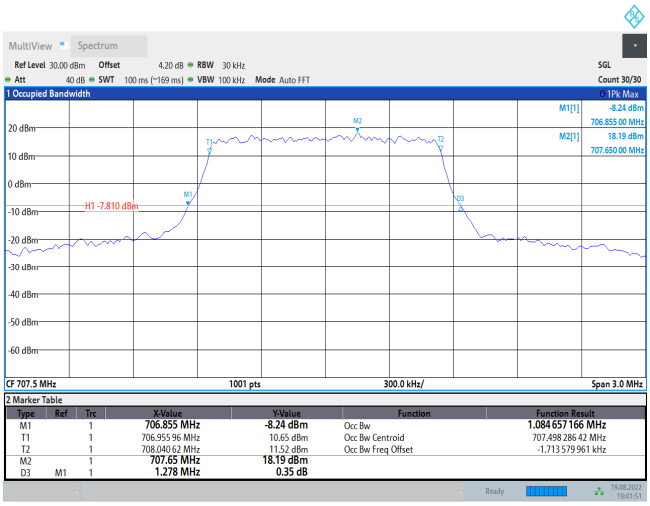
Band12-1.4MHz-QPSK-23095-6RB#0



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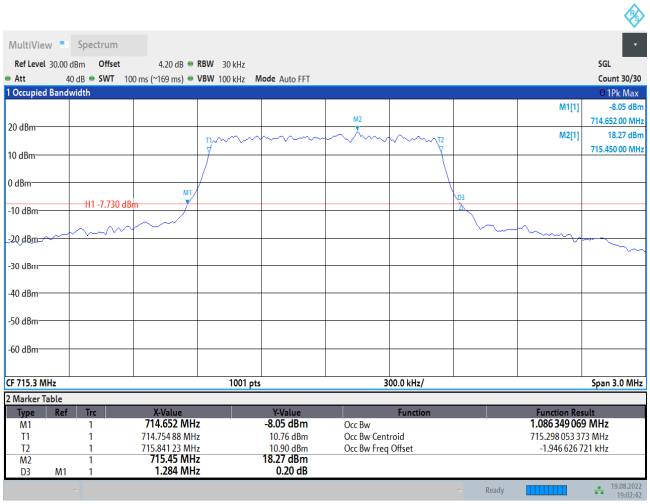
Band12-1.4MHz-QPSK-23173-6RB#0



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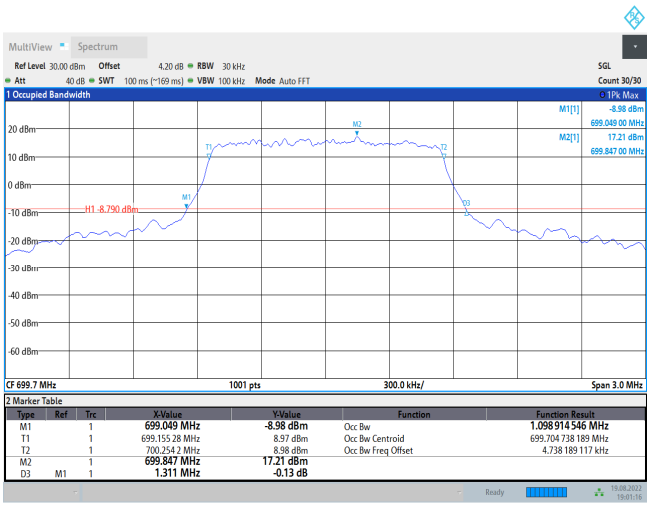

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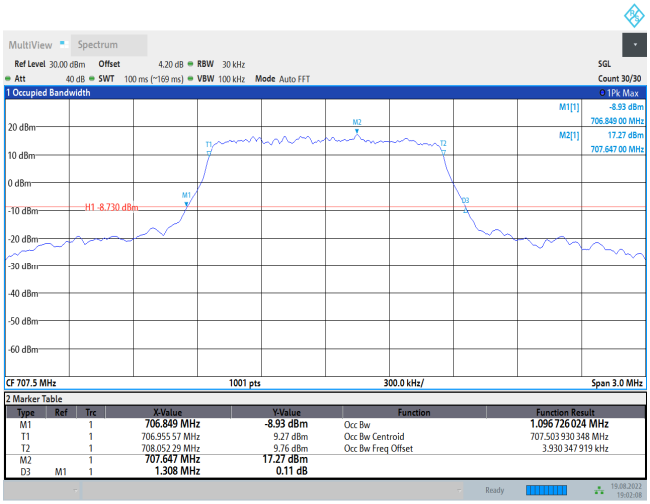
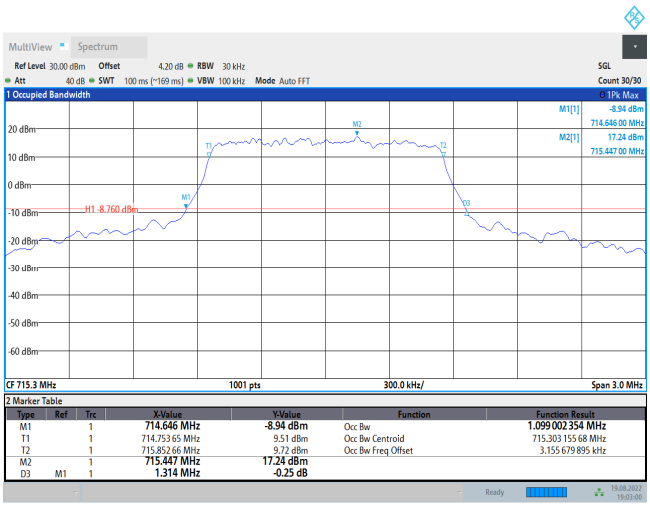
Band12-1.4MHz-16QAM-23095-6RB#0



Band12-1.4MHz-16QAM-23173-6RB#0



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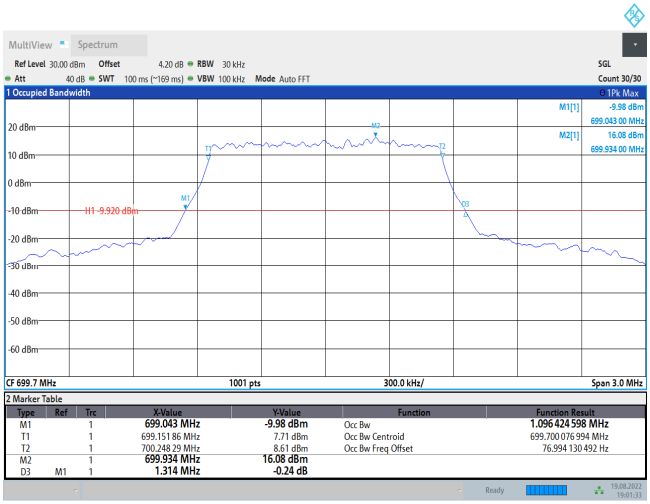
Band12-1.4MHz-64QAM-23017-6RB#0



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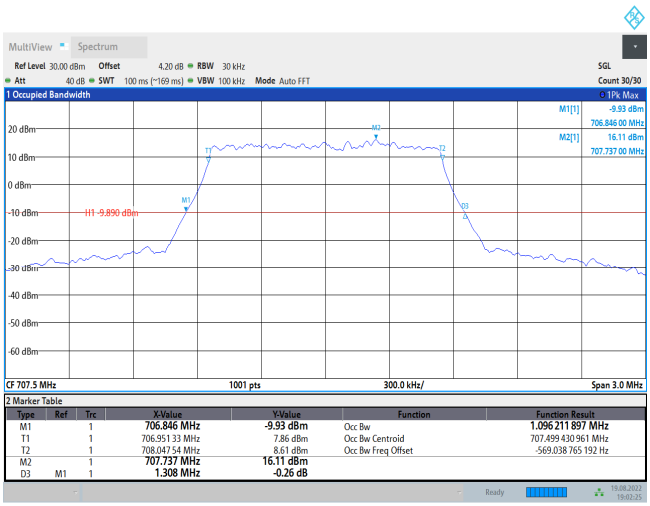
Band12-1.4MHz-64QAM-23095-6RB#0



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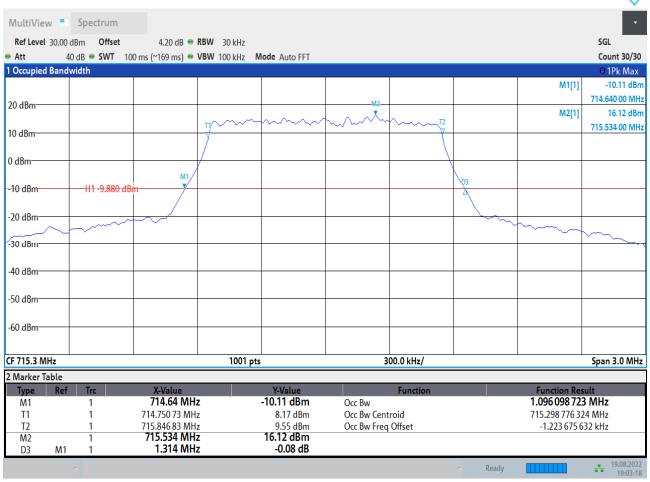
Band12-1.4MHz-64QAM-23173-6RB#0



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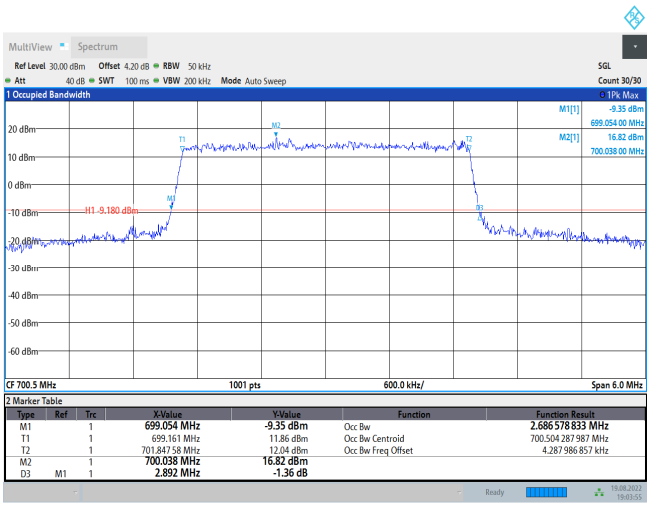
Band12-3MHz-QPSK-23025-15RB#0



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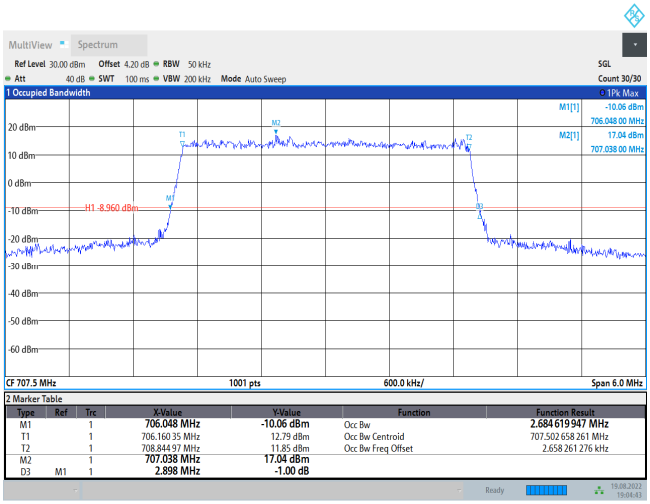
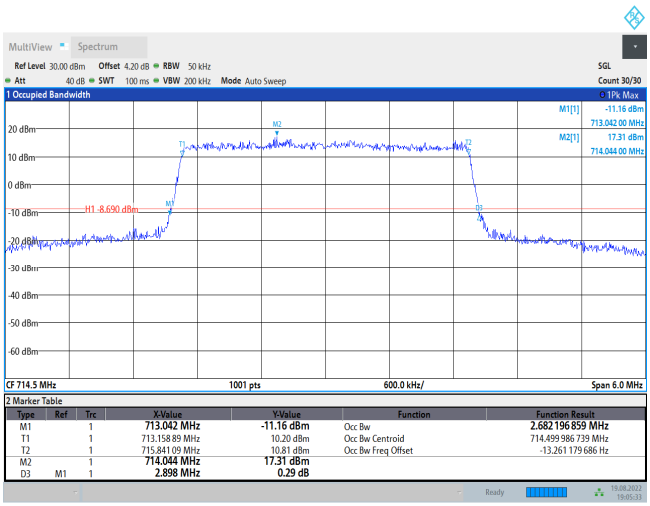
Band12-3MHz-QPSK-23095-15RB#0



Band12-3MHz-QPSK-23165-15RB#0



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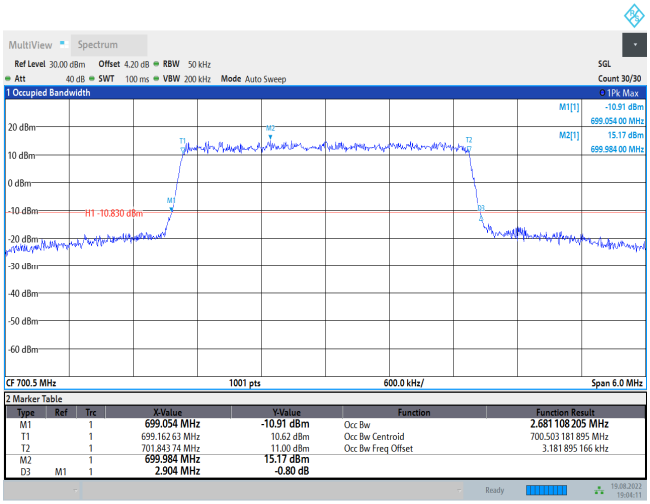
Band12-3MHz-16QAM-23025-15RB#0



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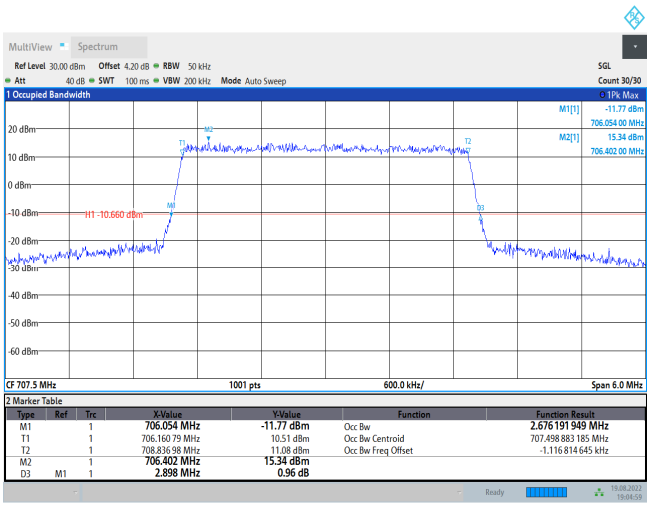
Band12-3MHz-16QAM-23095-15RB#0



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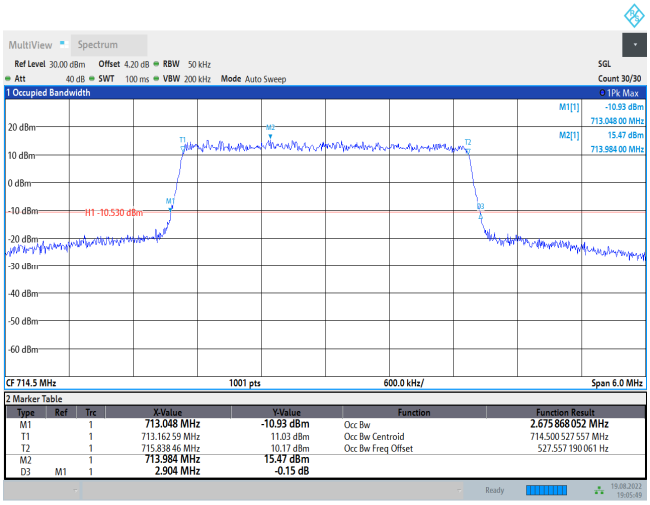
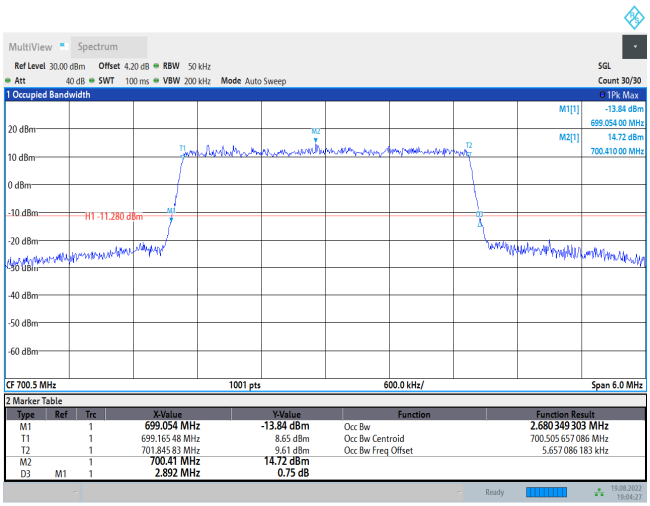
Band12-3MHz-16QAM-23165-15RB#0



Band12-3MHz-64QAM-23025-15RB#0



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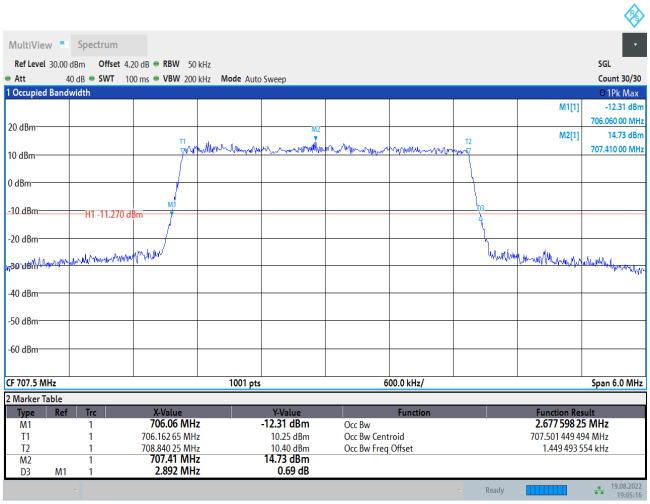
Band12-3MHz-64QAM-23095-15RB#0



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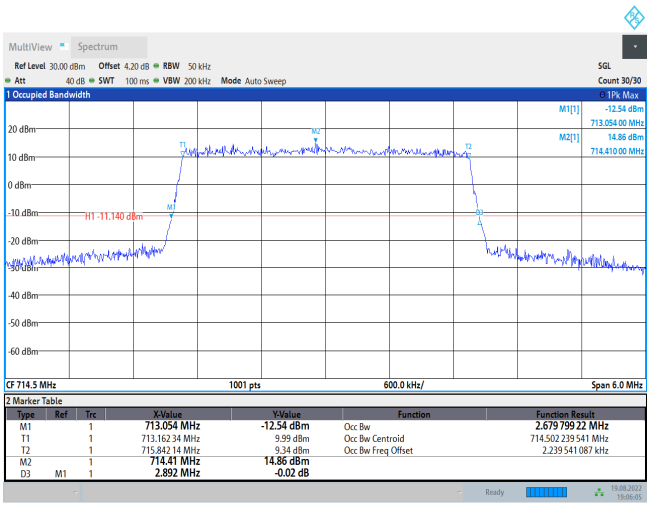

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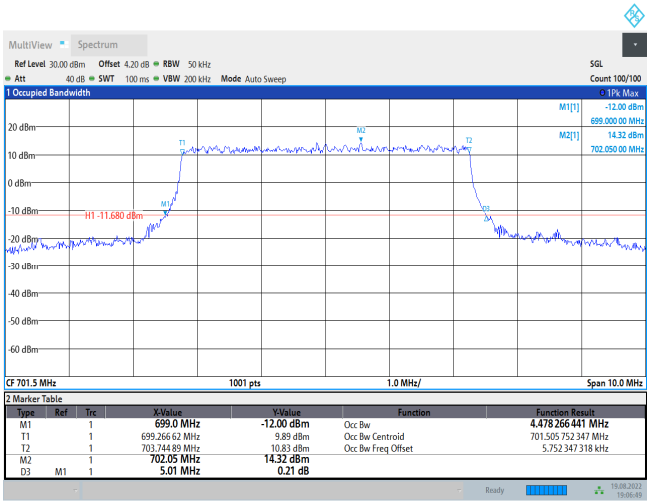
Band12-5MHz-QPSK-23035-25RB#0



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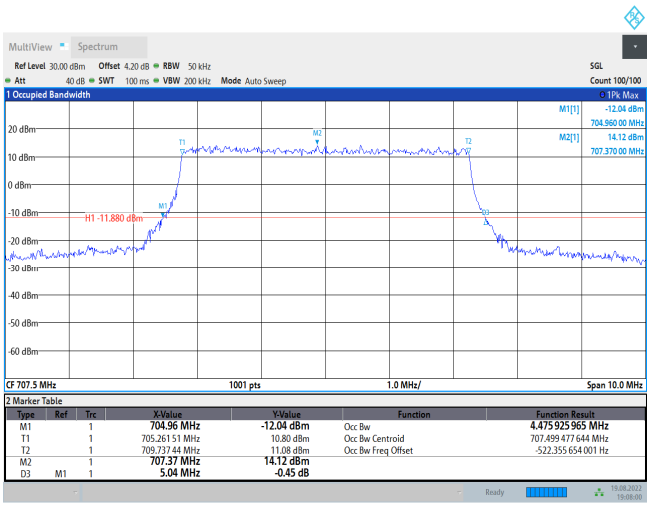

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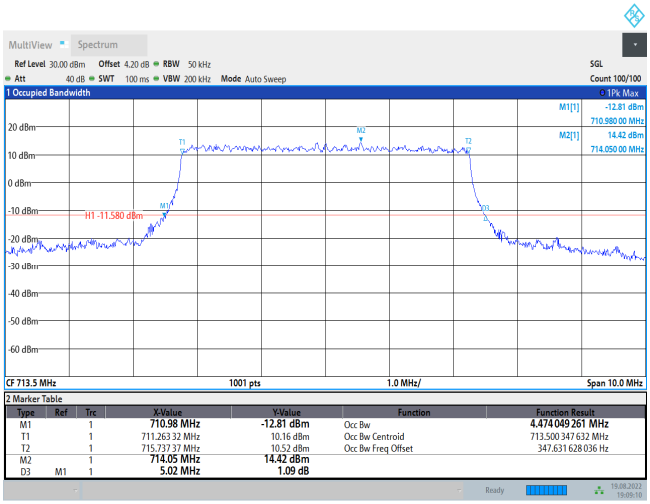
Band12-5MHz-QPSK-23155-25RB#0



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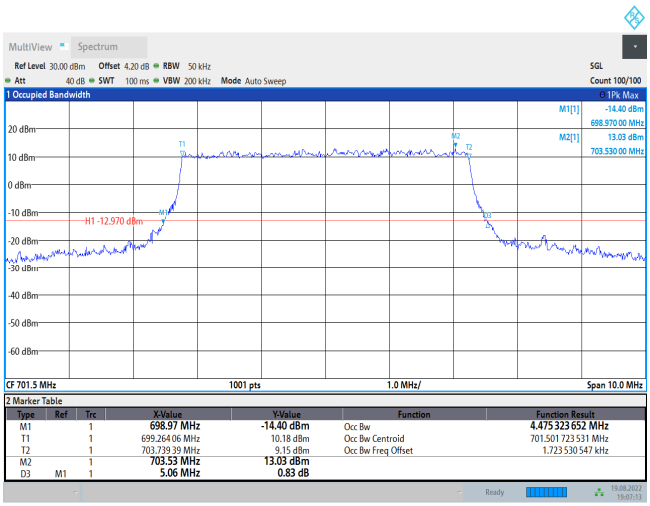
Band12-5MHz-16QAM-23035-25RB#0



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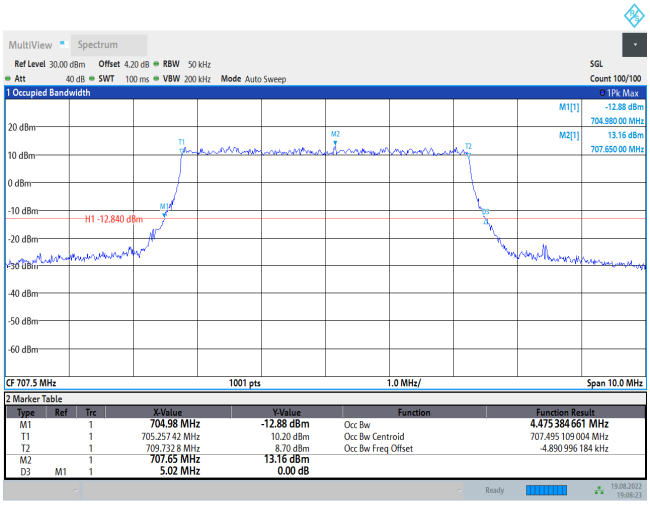
Band12-5MHz-16QAM-23095-25RB#0



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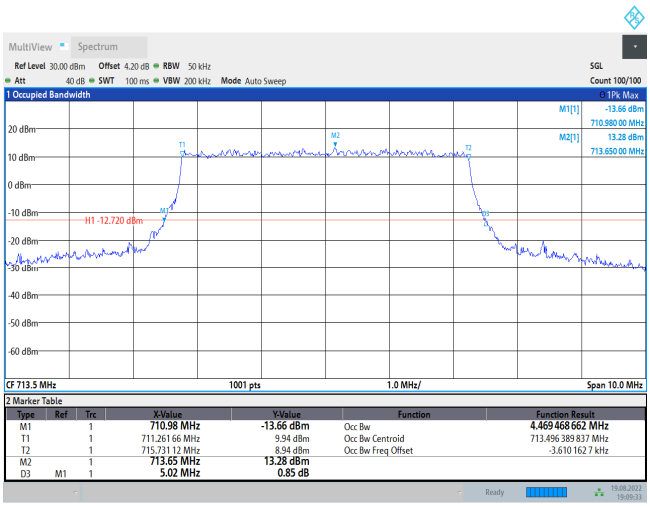

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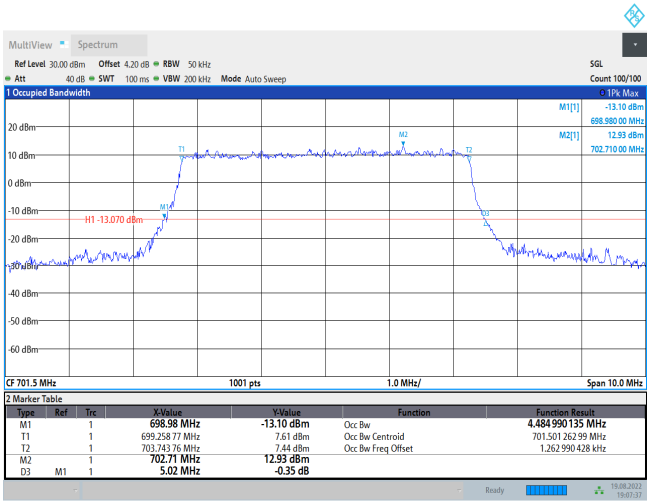
Band12-5MHz-64QAM-23035-25RB#0



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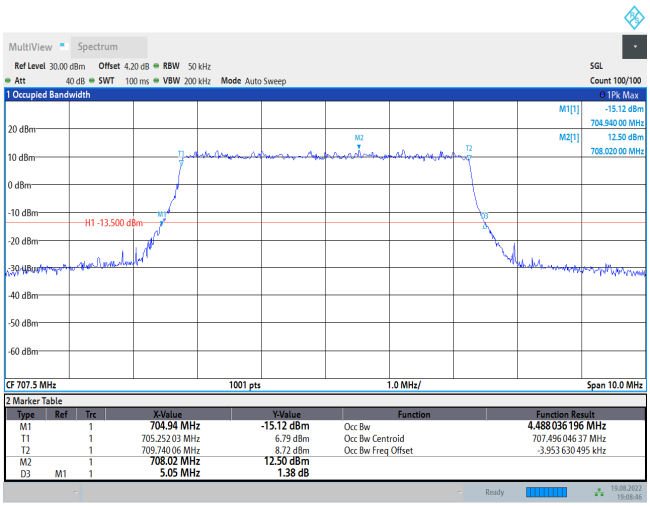

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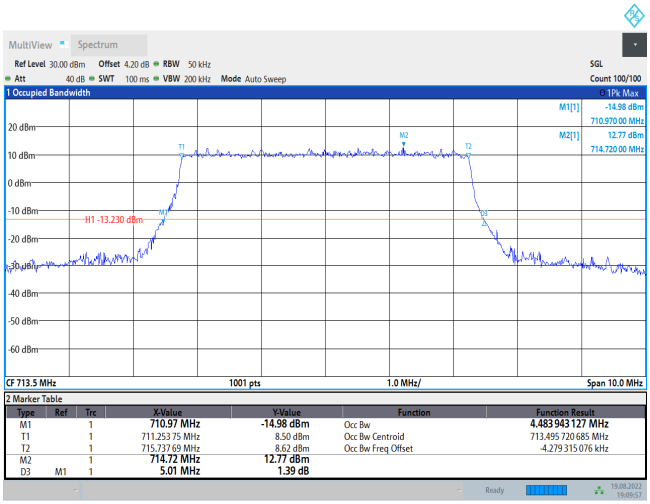
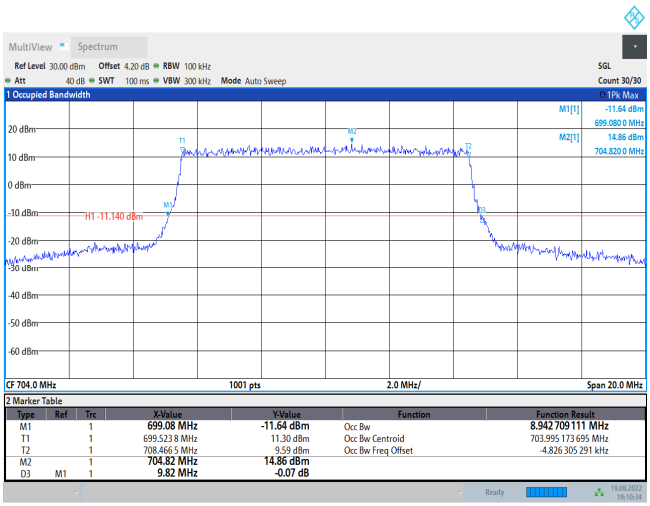
Band12-5MHz-64QAM-23155-25RB#0



Band12-10MHz-QPSK-23060-50RB#0



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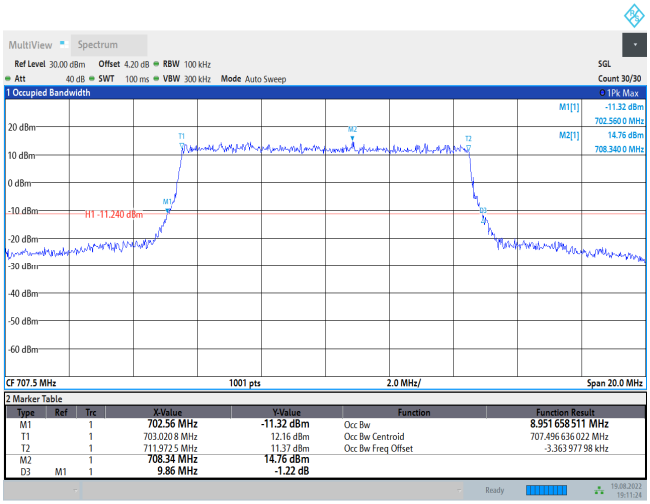
Band12-10MHz-QPSK-23095-50RB#0



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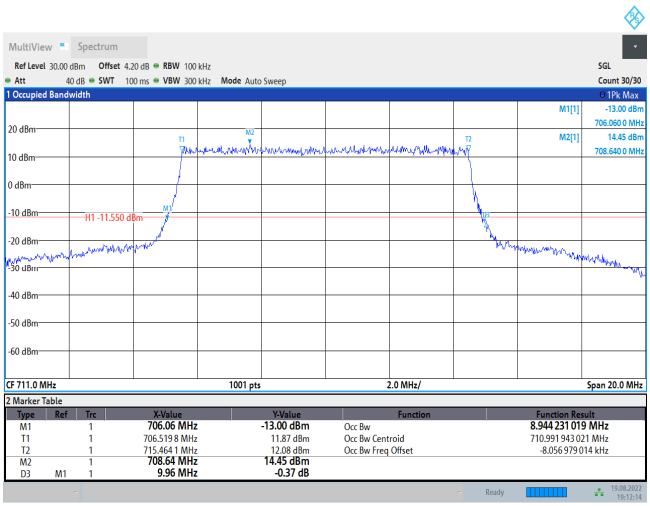

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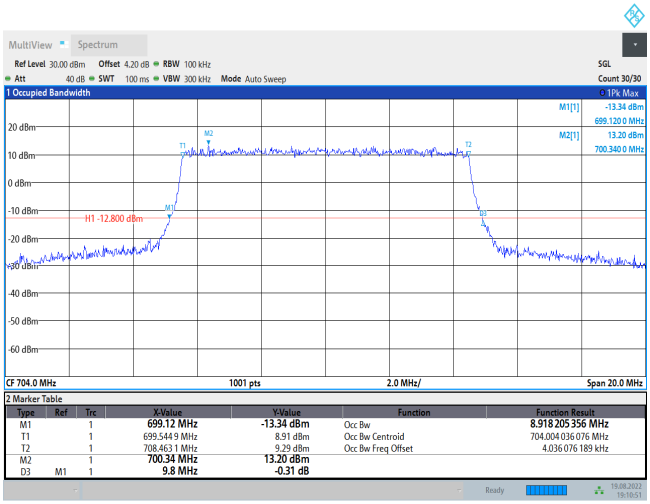

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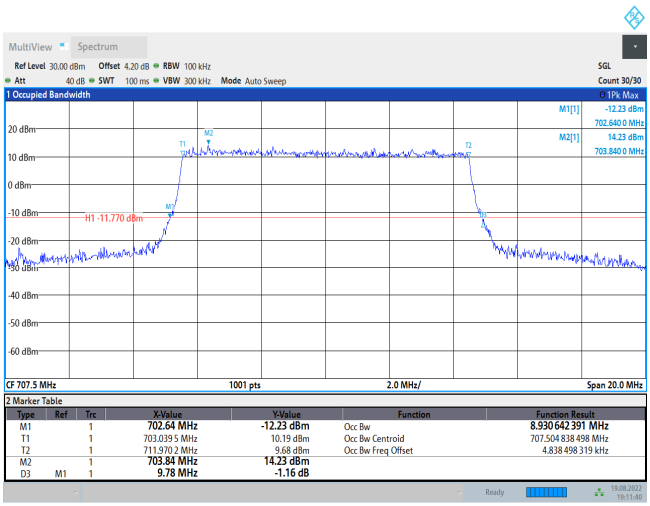
Band12-10MHz-16QAM-23095-50RB#0



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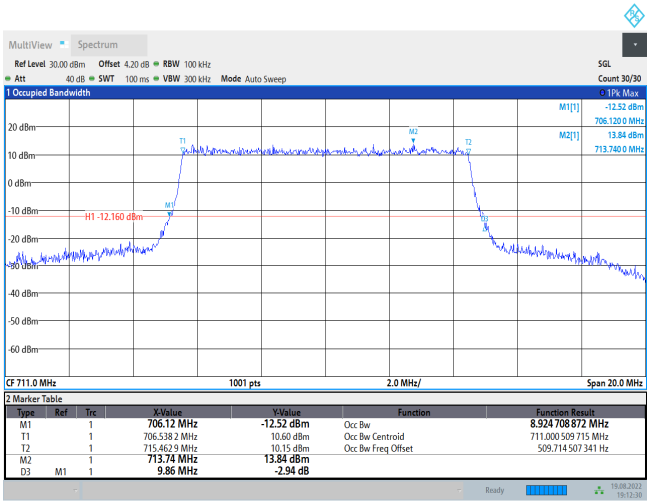
Band12-10MHz-16QAM-23130-50RB#0



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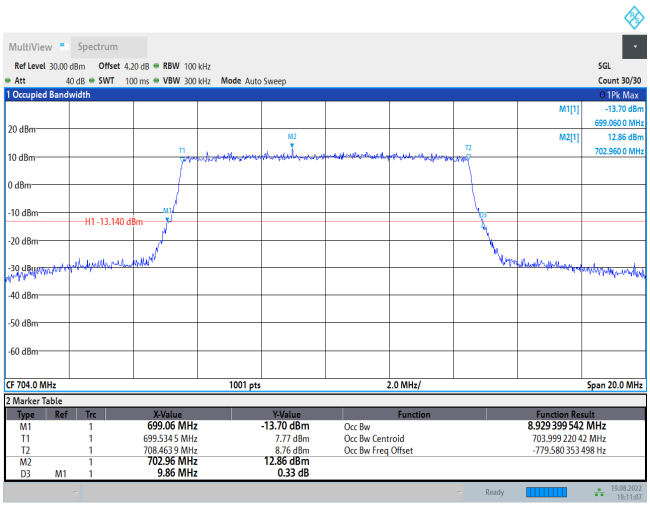

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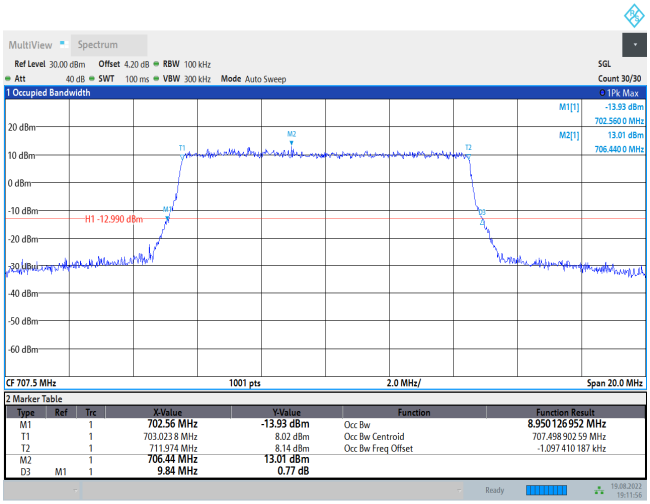
Band12-10MHz-64QAM-23095-50RB#0



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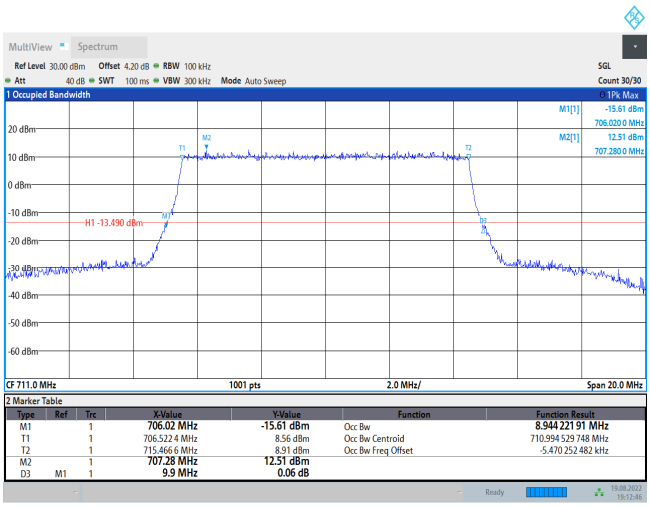
Band12-10MHz-64QAM-23130-50RB#0



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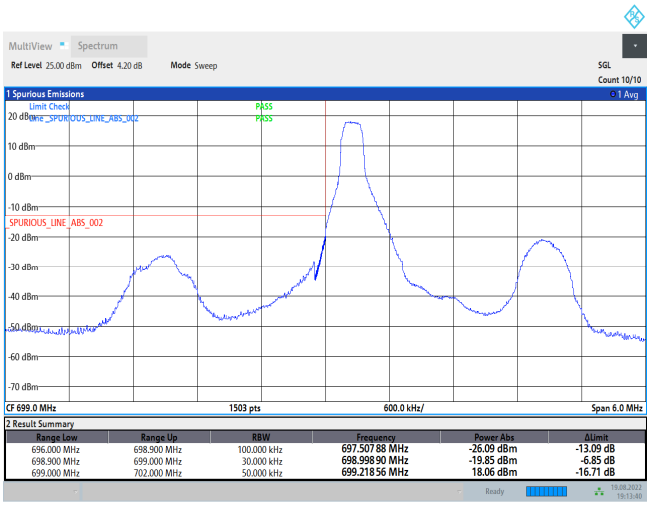
Band Edge

Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



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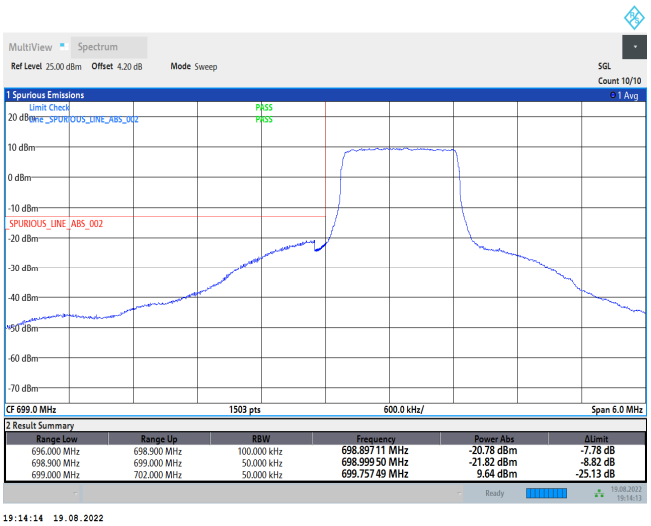

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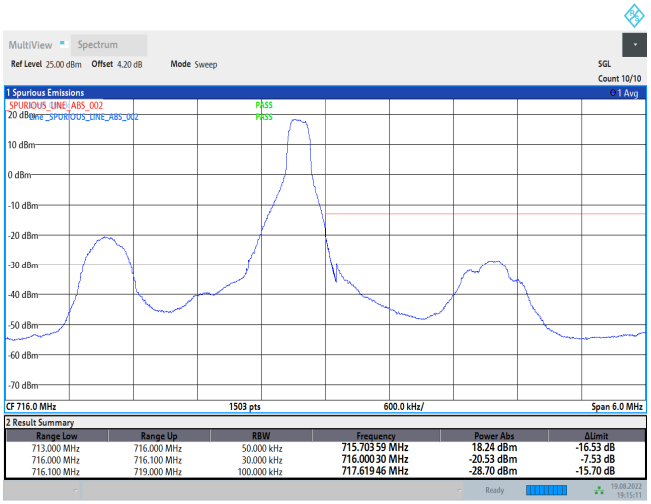
Band12-1.4MHz-QPSK-23173-1RB#5



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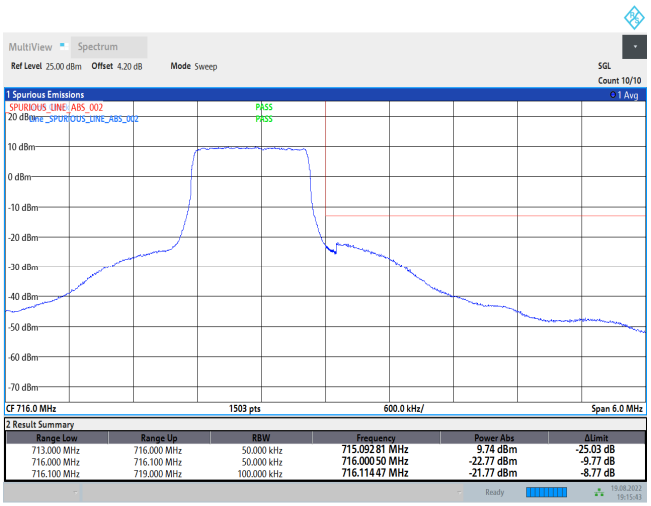
Band12-1.4MHz-QPSK-23173-6RB#0



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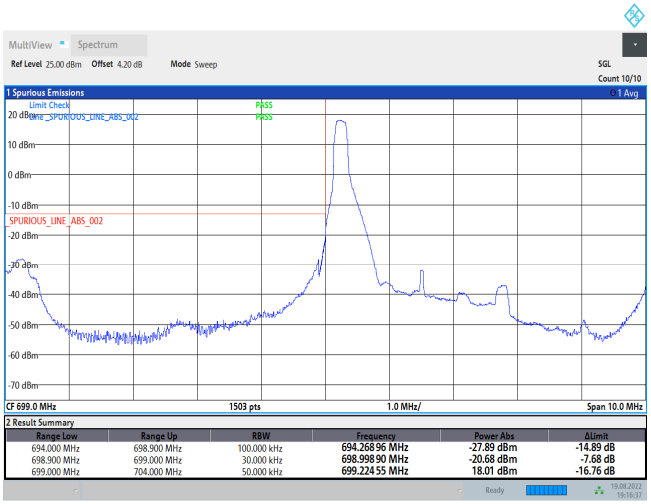
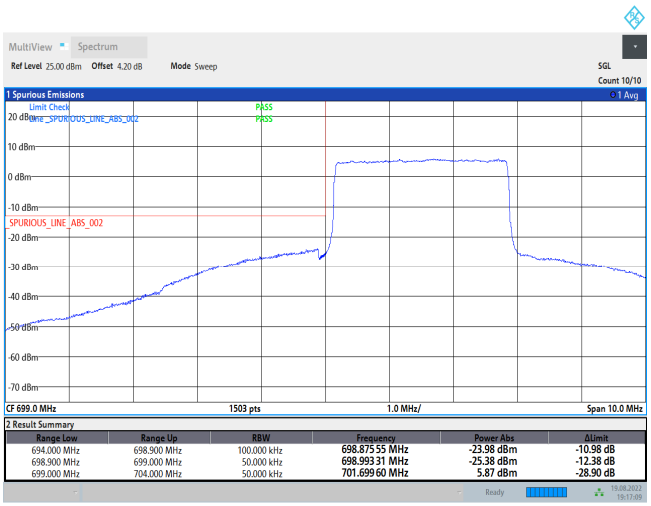
Band12-3MHz-QPSK-23025-1RB#0



Band12-3MHz-QPSK-23025-15RB#0



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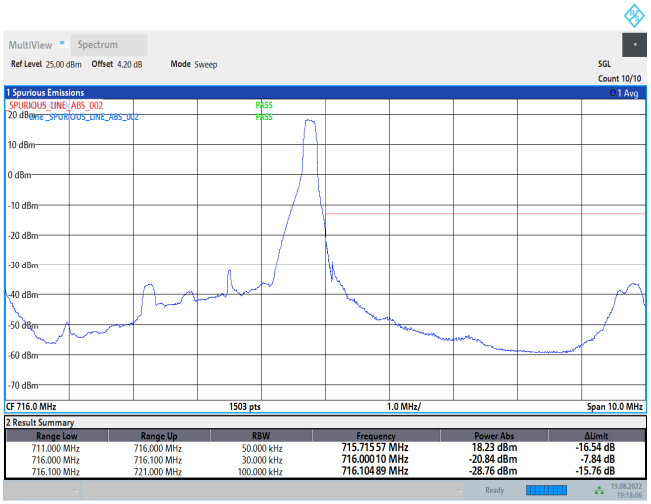
Band12-3MHz-QPSK-23165-1RB#14



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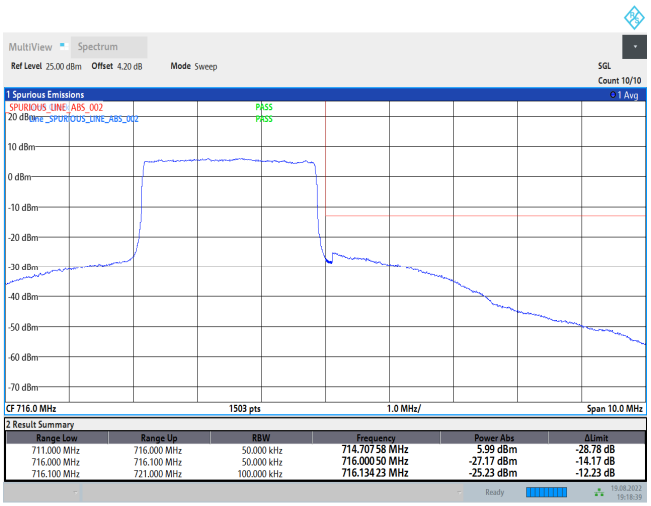
Band12-3MHz-QPSK-23165-15RB#0



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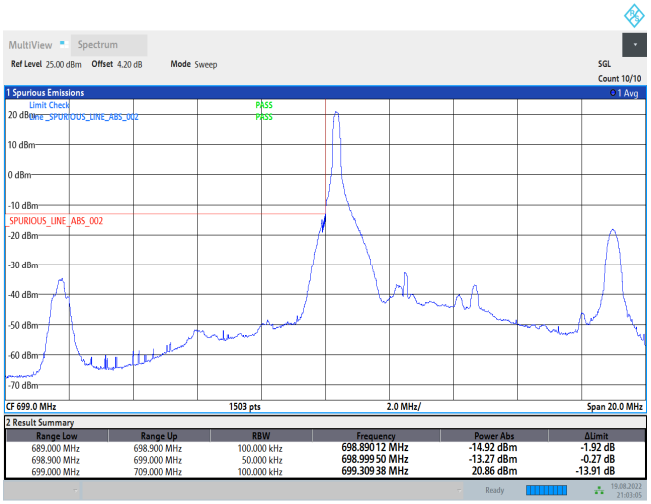
Band12-5MHz-QPSK-23035-1RB#0



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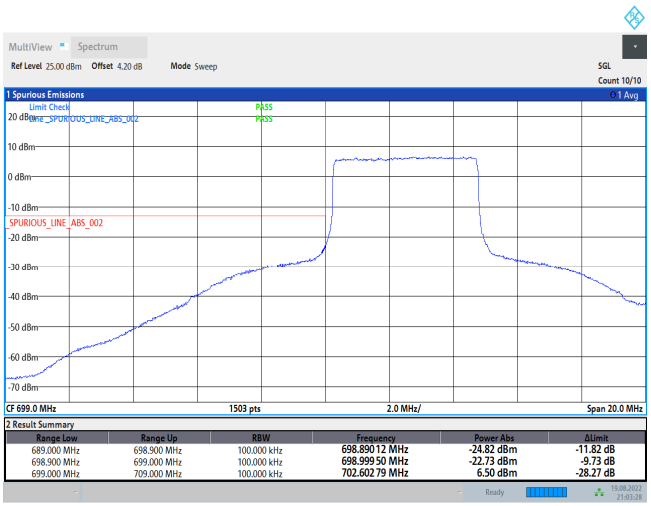

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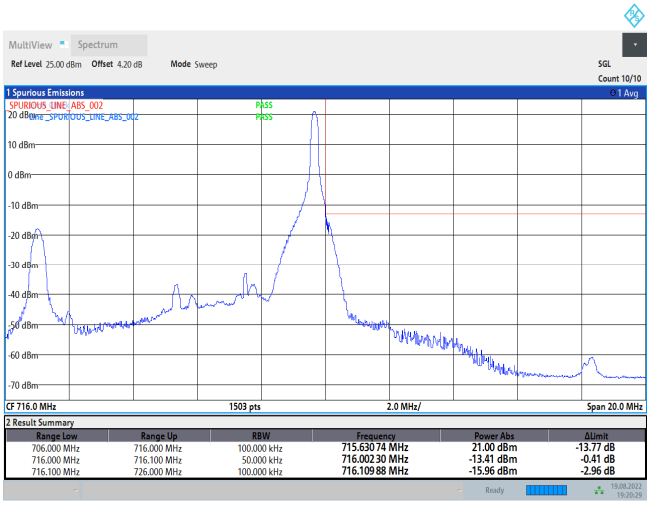
Band12-5MHz-QPSK-23155-1RB#24



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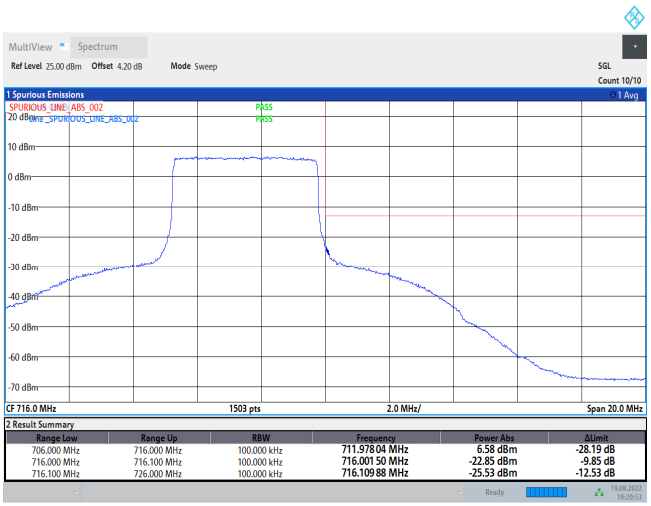

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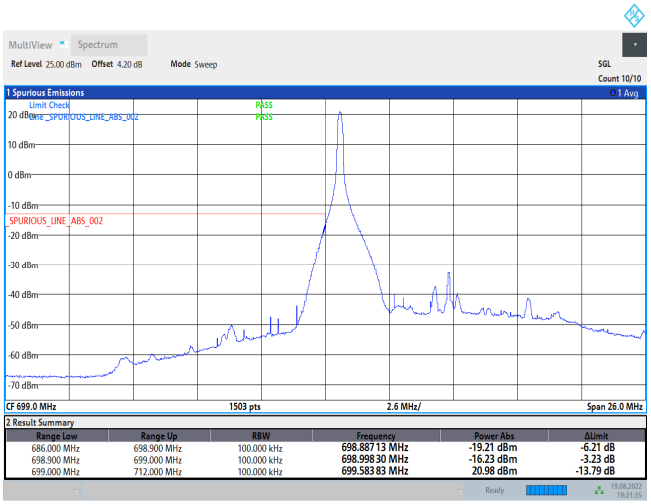
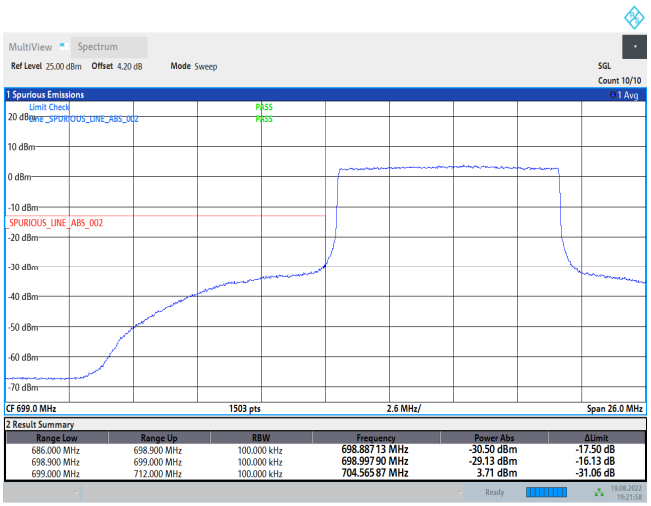
Band12-10MHz-QPSK-23060-1RB#0



Band12-10MHz-QPSK-23060-50RB#0



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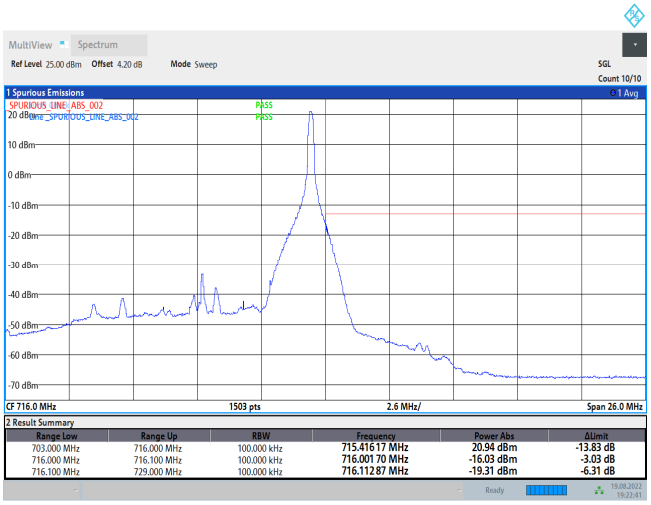
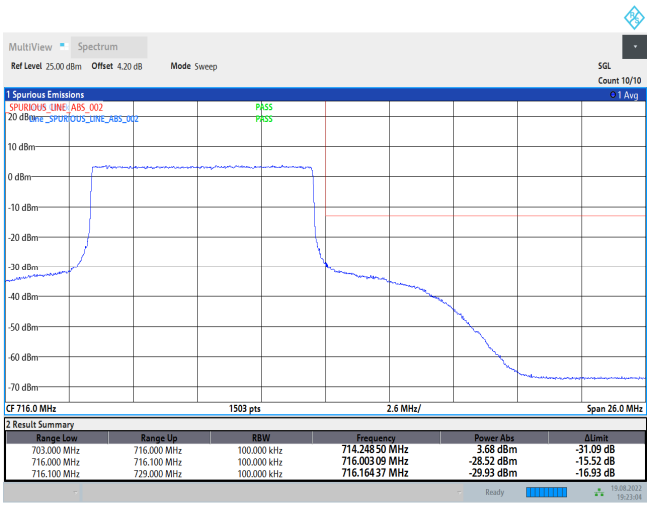
Band12-10MHz-QPSK-23130-1RB#49



19:22:41 19.08.2022

Band12-10MHz-QPSK-23130-50RB#0



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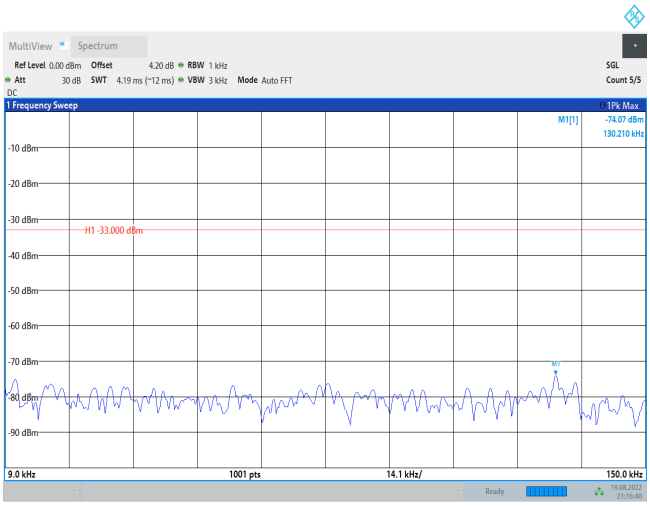
Conducted Spurious Emission

Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



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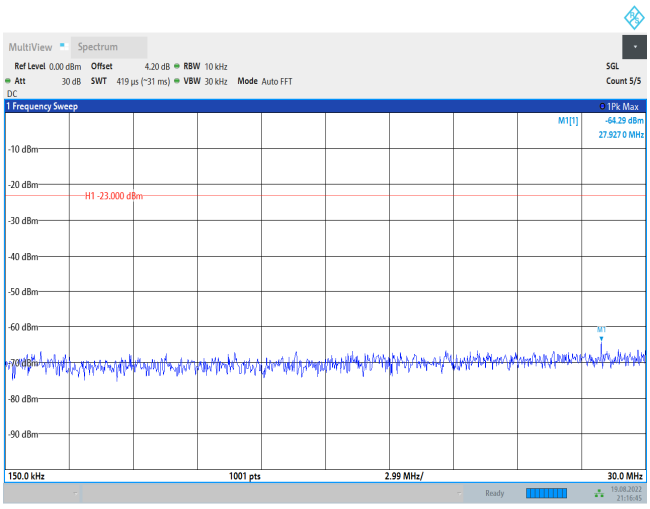
Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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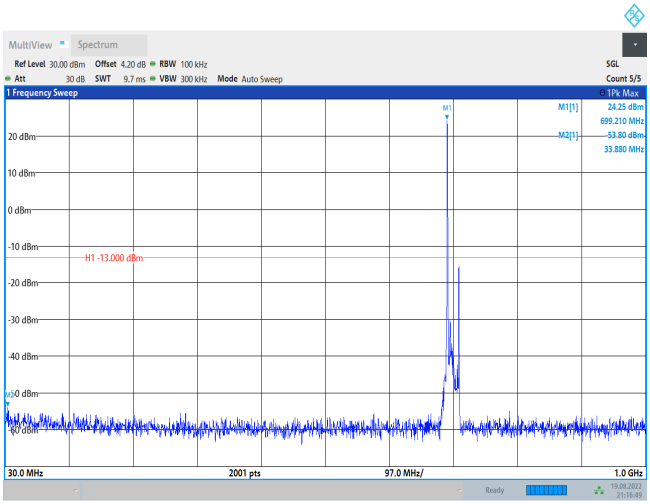
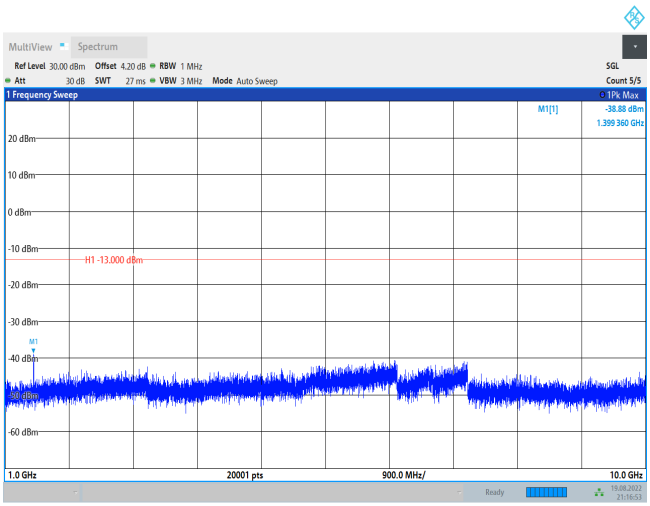
Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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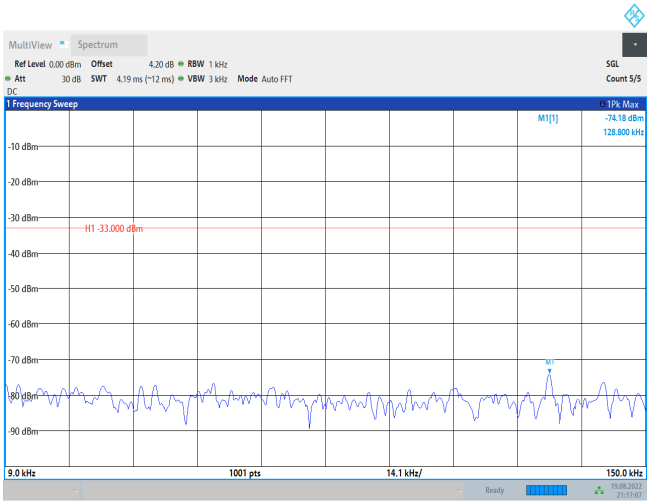
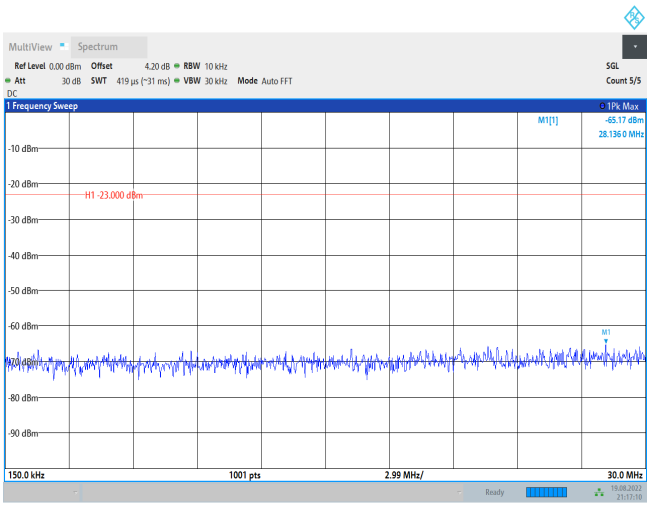
Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



21:17:07 19.08.2022

Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



21:17:11 19.08.2022

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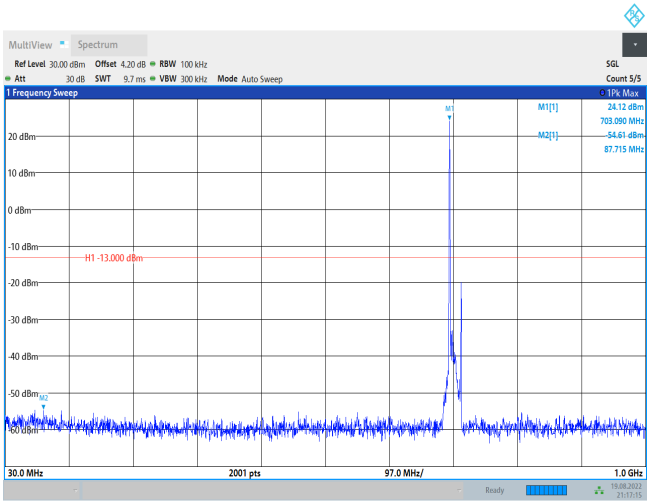
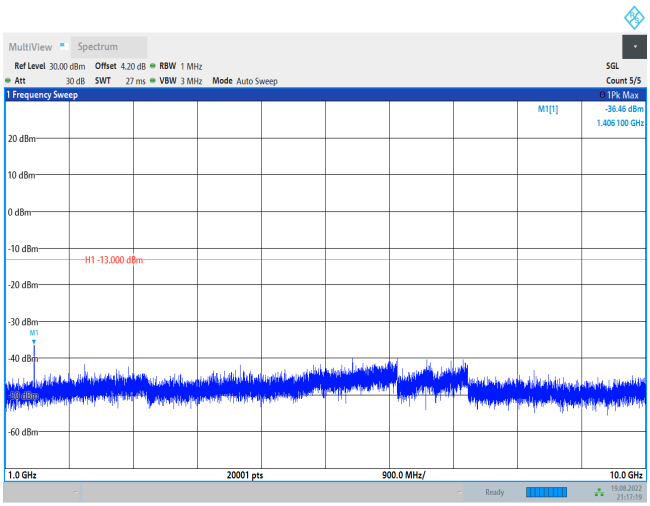
Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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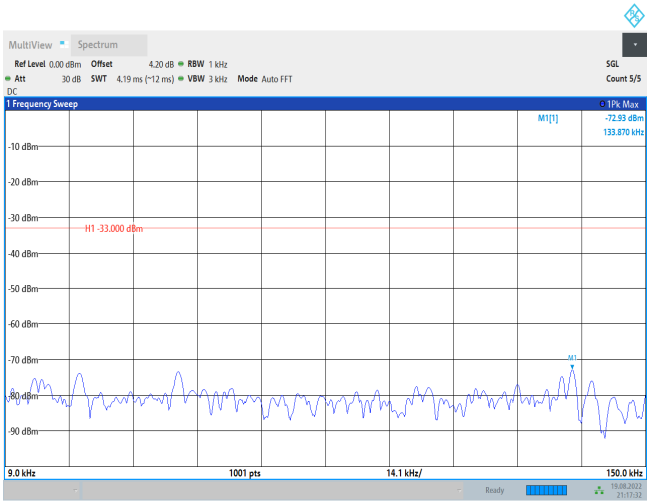
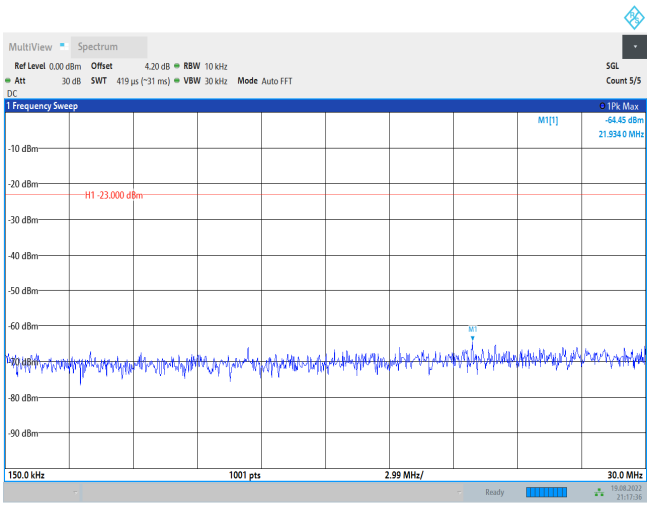
Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



21:17:32 19.08.2022

Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



21:17:36 19.08.2022

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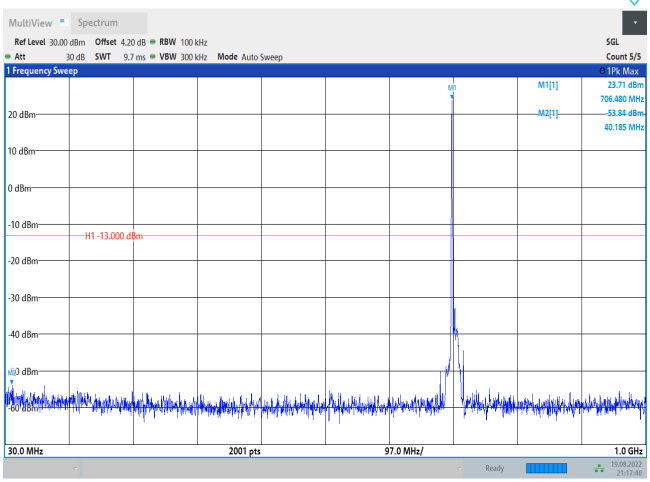
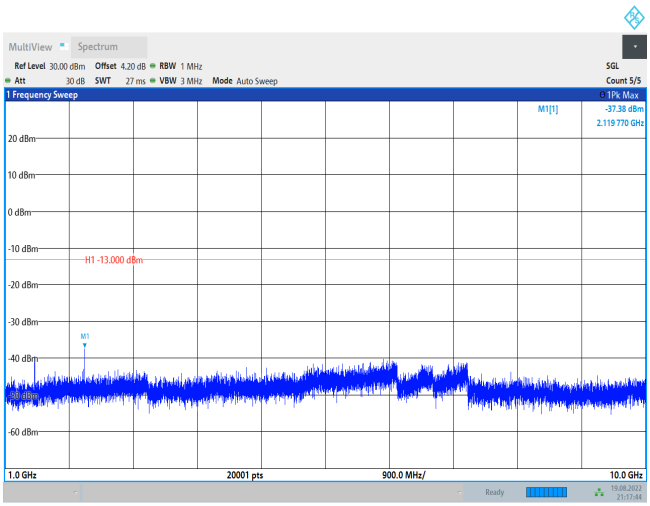
Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band12_ 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	1399.1800	63.18	-48.00	25.62	-54.46	-13.00	41.46	235	108	Horizontal
2	2098.7700	59.19	-47.71	26.99	-56.80	-13.00	43.80	142	216	Horizontal
3	2798.3600	53.53	-46.92	28.48	-60.17	-13.00	47.17	166	324	Horizontal
4	3497.9500	49.56	-46.54	29.52	-62.72	-13.00	49.72	191	148	Horizontal
5	4197.5400	48.15	-45.96	31.10	-61.97	-13.00	48.97	154	14	Horizontal
6	4897.1300	49.52	-45.58	32.59	-58.73	-13.00	45.73	170	230	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	1399.1800	64.37	-48.00	25.62	-53.27	-13.00	40.27	251	293	Vertical
2	2098.7700	55.02	-47.71	26.99	-60.97	-13.00	47.97	133	65	Vertical
3	2798.3600	50.78	-46.92	28.48	-62.92	-13.00	49.92	261	200	Vertical
4	3497.9500	50.77	-46.54	29.52	-61.51	-13.00	48.51	145	77	Vertical
5	4197.5400	47.79	-45.96	31.10	-62.33	-13.00	49.33	188	6	Vertical
6	4897.1300	48.83	-45.58	32.59	-59.42	-13.00	46.42	194	267	Vertical

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Test Band = LTE Band12_ 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	1406.1800	63.98	-48.02	25.61	-53.69	-13.00	40.69	222	268	Horizontal
2	2109.2700	60.89	-47.71	27.02	-55.05	-13.00	42.05	142	310	Horizontal
3	2812.3600	51.33	-46.88	28.53	-62.27	-13.00	49.27	103	360	Horizontal
4	3515.4500	51.09	-46.51	29.53	-61.14	-13.00	48.14	261	187	Horizontal
5	4218.5400	50.19	-45.93	31.14	-59.86	-13.00	46.86	174	310	Horizontal
6	4921.6300	49.99	-45.63	32.66	-58.24	-13.00	45.24	185	13	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	1406.1800	66.26	-48.02	25.61	-51.41	-13.00	38.41	231	281	Vertical
2	2109.2700	56.42	-47.71	27.02	-59.52	-13.00	46.52	162	49	Vertical
3	2812.3600	50.98	-46.88	28.53	-62.62	-13.00	49.62	188	319	Vertical
4	3515.4500	49.36	-46.51	29.53	-62.87	-13.00	49.87	211	307	Vertical
5	4218.5400	49.09	-45.93	31.14	-60.96	-13.00	47.96	201	49	Vertical
6	4921.6300	48.68	-45.63	32.66	-59.55	-13.00	46.55	191	356	Vertical

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Test Band = LTE Band12_ 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	1413.1800	58.18	-48.04	25.60	-59.52	-13.00	46.52	291	108	Horizontal
2	2119.7700	58.77	-47.70	27.06	-57.13	-13.00	44.13	125	215	Horizontal
3	2826.3600	50.44	-46.83	28.60	-63.05	-13.00	50.05	274	108	Horizontal
4	3532.9500	50.23	-46.47	29.55	-61.95	-13.00	48.95	256	360	Horizontal
5	4239.5400	48.52	-45.89	31.18	-61.45	-13.00	48.45	132	360	Horizontal
6	4946.1300	48.45	-45.69	32.73	-59.77	-13.00	46.77	266	41	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	1413.1800	59.97	-48.04	25.60	-57.73	-13.00	44.73	215	117	Vertical
2	2119.7700	56.90	-47.70	27.06	-59.00	-13.00	46.00	145	200	Vertical
3	2826.3600	50.20	-46.83	28.60	-63.29	-13.00	50.29	129	36	Vertical
4	3532.9500	49.86	-46.47	29.55	-62.32	-13.00	49.32	261	0	Vertical
5	4239.5400	48.36	-45.89	31.18	-61.61	-13.00	48.61	175	171	Vertical
6	4946.1300	48.76	-45.69	32.73	-59.46	-13.00	46.46	136	0	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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Member of the SGS Group (SGS SA)

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-4.70	-0.006643	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-9.90	-0.013993	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-6.60	-0.009329	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-7.80	-0.011025	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-3.60	-0.005088	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-6.90	-0.009753	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-7.20	-0.010177	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-5.20	-0.007350	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-3.60	-0.005088	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-3.30	-0.004664	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-7.10	-0.010035	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-10.60	-0.014982	PASS

---End of Attachment---

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