

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	23.40	18.65	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.54	18.79	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.39	18.64	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.58	17.83	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.50	18.75	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.66	18.91	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.50	18.75	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.69	17.94	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.58	18.83	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.73	18.98	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.58	18.83	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.77	18.02	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.75	18.00	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.91	18.16	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.70	17.95	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.68	16.93	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.92	18.17	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.96	18.21	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.83	18.08	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.80	17.05	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.91	18.16	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.03	18.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.92	18.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.86	17.11	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.68	16.93	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.83	17.08	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.65	16.90	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	20.55	15.80	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.73	16.98	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.87	17.12	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.76	17.01	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.69	15.94	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.82	17.07	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.99	17.24	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.77	17.02	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.74	15.99	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.43	18.68	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.46	18.71	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.47	18.72	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.53	17.78	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.58	18.83	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.58	18.83	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.53	18.78	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.63	17.88	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.60	18.85	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.63	18.88	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.60	18.85	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.75	18.00	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.81	18.06	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.80	18.05	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.72	17.97	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.55	16.80	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.85	18.10	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.93	18.18	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.85	18.10	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.65	16.90	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.89	18.14	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.86	18.11	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.94	18.19	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	21.74	16.99	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.68	16.93	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.68	16.93	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.67	16.92	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.55	15.80	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.82	17.07	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.76	17.01	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.79	17.04	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.65	15.90	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.87	17.12	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.87	17.12	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.84	17.09	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.74	15.99	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.34	18.59	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.68	18.93	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.38	18.63	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.58	17.83	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.48	18.73	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.71	18.96	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.42	18.67	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.62	17.87	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.46	18.71	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.76	19.01	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.49	18.74	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.73	17.98	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.74	17.99	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.98	18.23	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.70	17.95	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.59	16.84	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.88	18.13	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.09	18.34	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.60	17.85	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	21.63	16.88	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.80	18.05	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.07	18.32	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.84	18.09	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.72	16.97	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.53	16.78	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.87	17.12	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.60	16.85	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.58	15.83	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.71	16.96	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.97	17.22	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.68	16.93	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.63	15.88	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.72	16.97	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.97	17.22	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.77	17.02	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.72	15.97	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.43	18.68	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.60	18.85	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.50	18.75	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.70	17.95	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.49	18.74	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.66	18.91	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.48	18.73	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.64	17.89	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.59	18.84	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.60	18.85	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.57	18.82	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.71	17.96	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.72	17.97	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.95	18.20	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.86	18.11	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	21.73	16.98	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.83	18.08	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.00	18.25	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.83	18.08	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.68	16.93	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.93	18.18	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.82	18.07	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.93	18.18	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.69	16.94	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.66	16.91	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.81	17.06	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.74	16.99	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.72	15.97	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.76	17.01	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.88	17.13	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.72	16.97	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.65	15.90	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.77	17.02	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.89	17.14	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.85	17.10	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.67	15.92	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	5.46	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.38	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.34	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.30	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.14	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.14	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.66	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.64	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.60	13	PASS



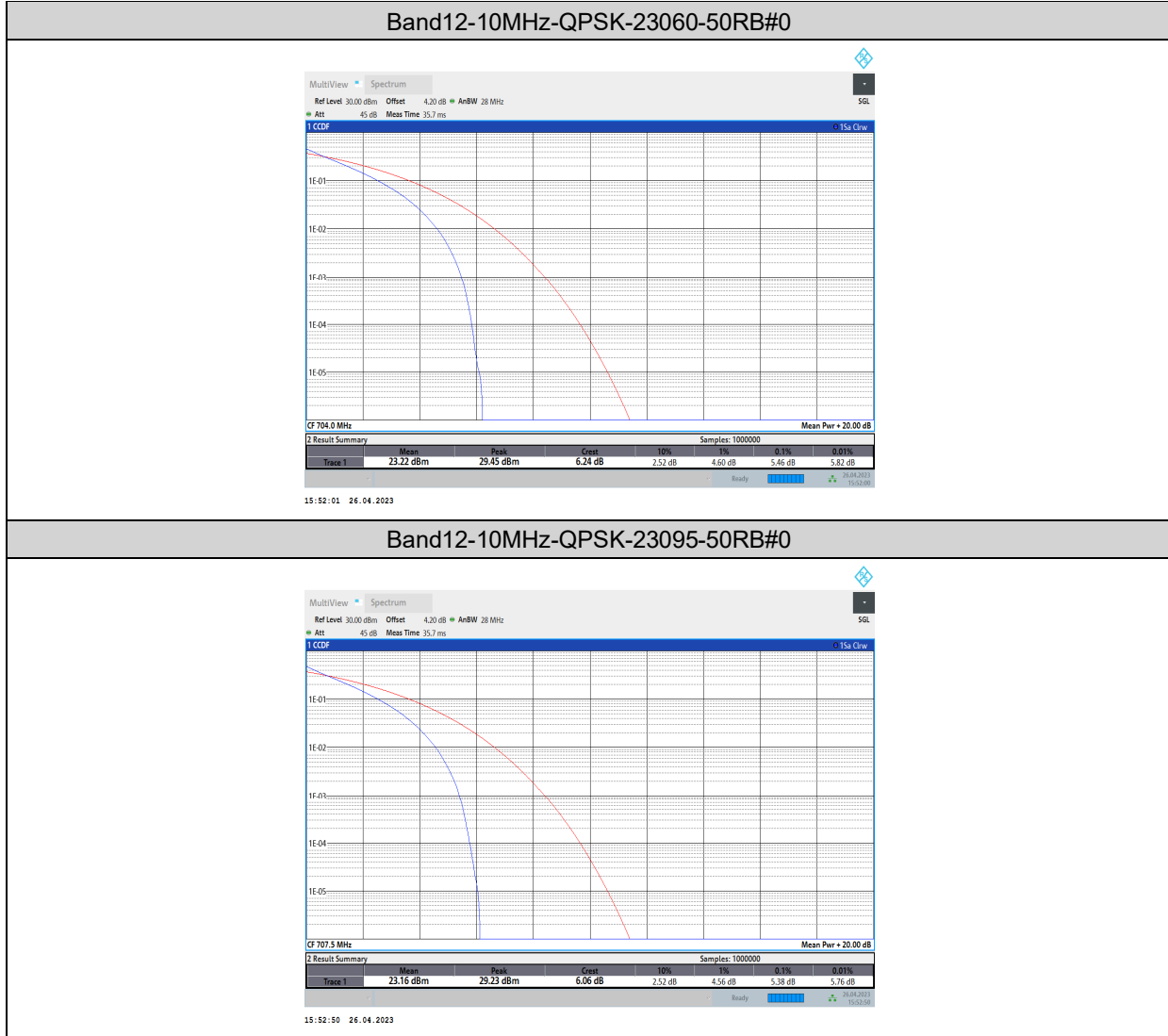
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Test Graphs

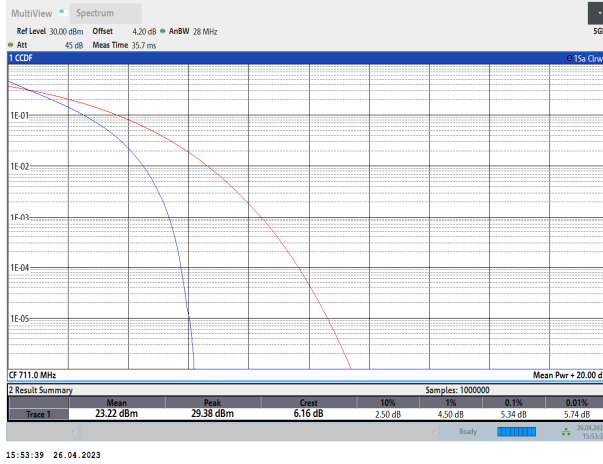


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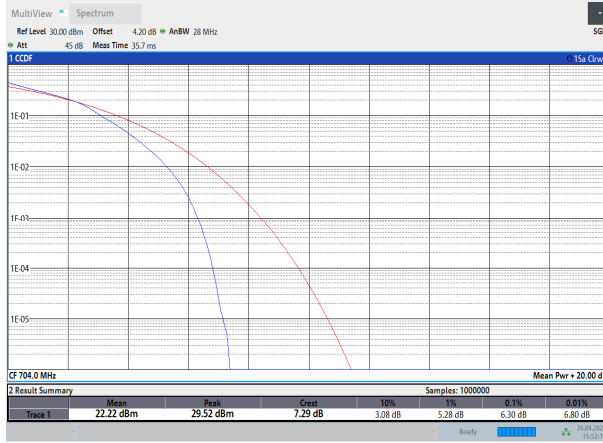
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Band12-10MHz-QPSK-23130-50RB#0



15:53:39 26.04.2023

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



15:52:17 26.04.2023

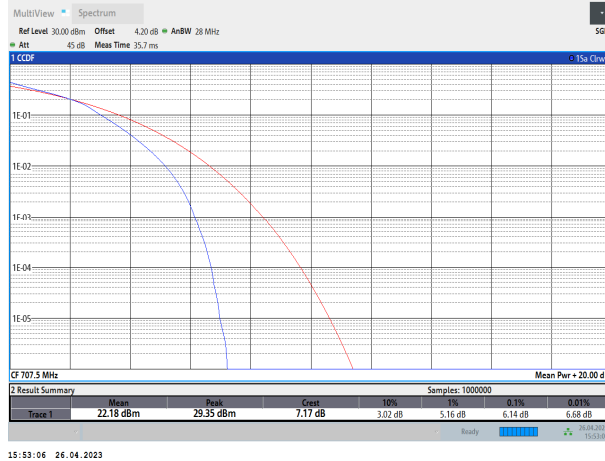


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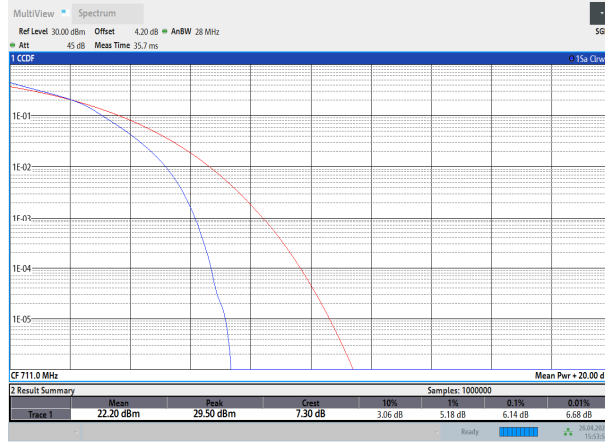
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Band12-10MHz-16QAM-23095-50RB#0



15:53:06 26.04.2023

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



15:53:56 26.04.2023

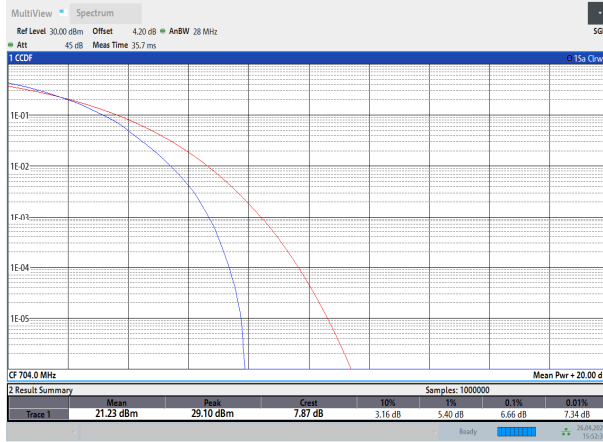


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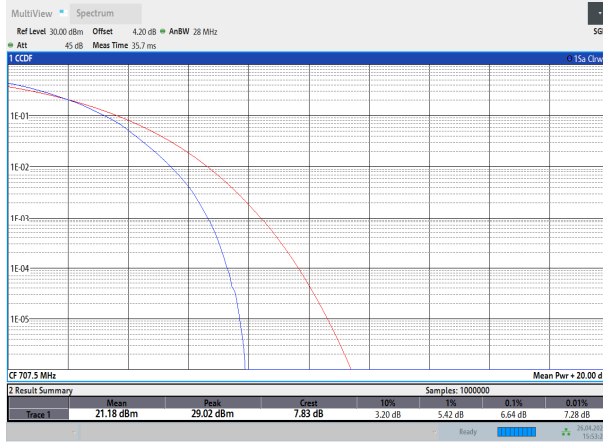
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Band12-10MHz-64QAM-23060-50RB#0



15:52:33 26.04.2023

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



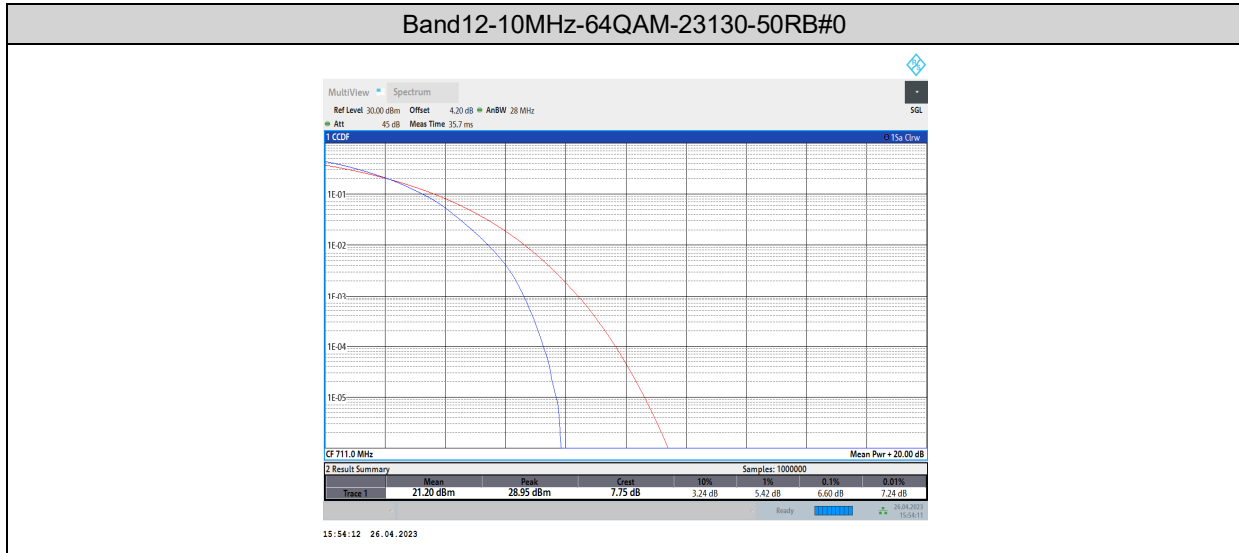
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Modulation Characteristics

Test Result

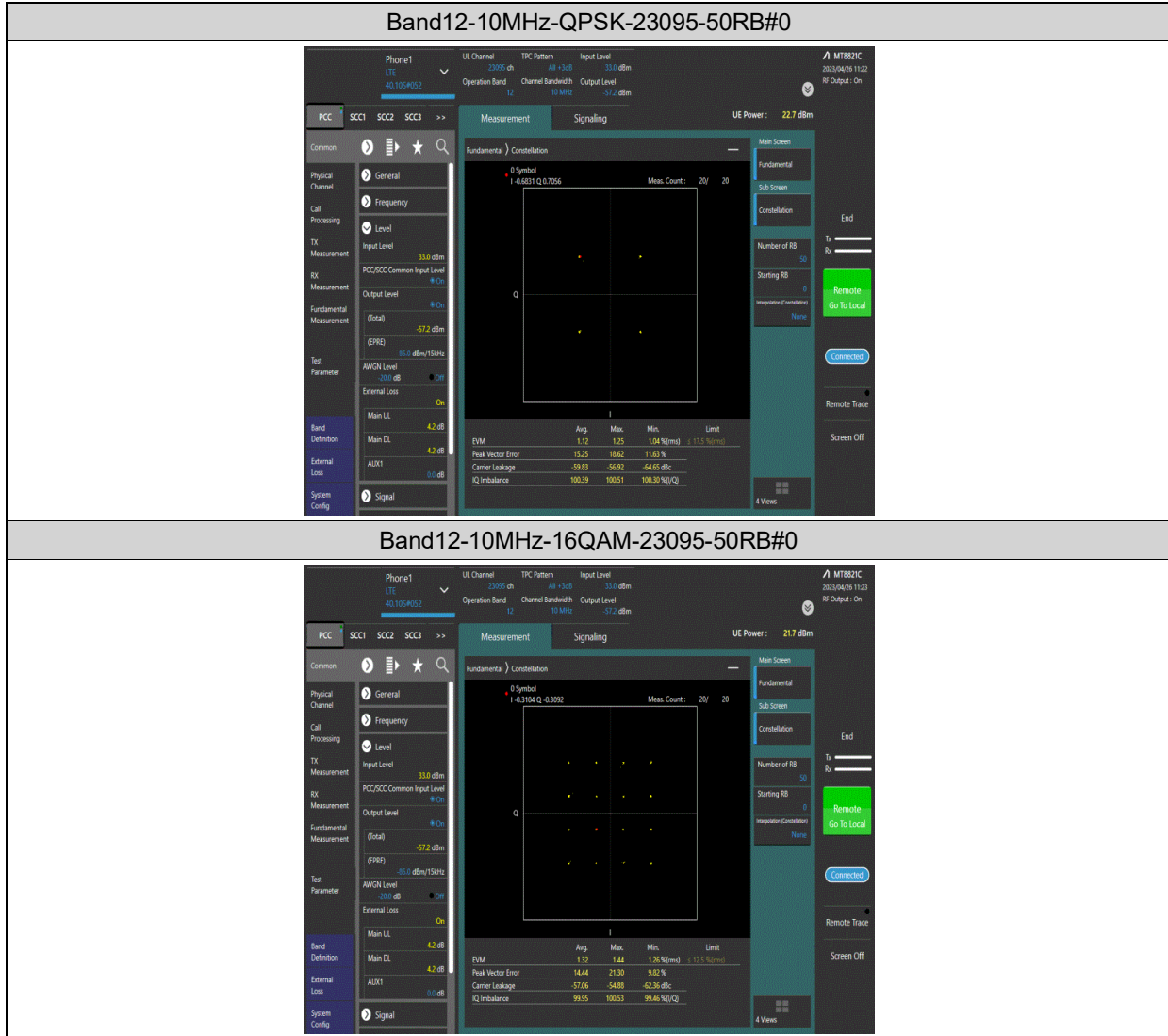
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS



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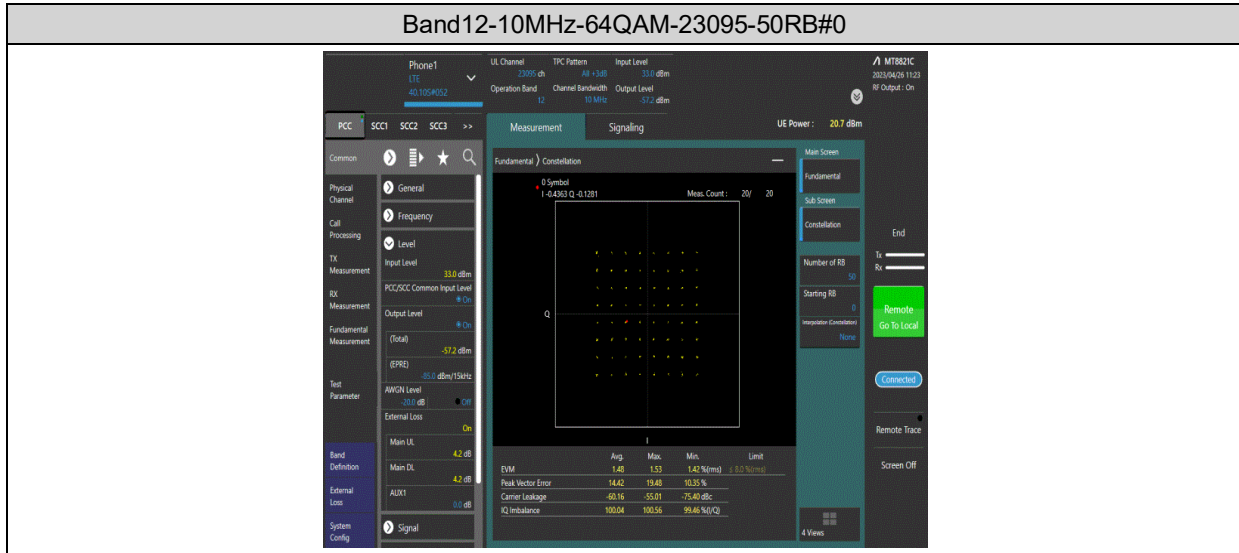
Test Graphs



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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	1.084	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.089	1.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.083	1.25	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.095	1.28	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.092	1.29	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.089	1.29	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.091	1.27	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.082	1.27	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.682	2.87	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.686	2.92	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.685	2.88	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.694	2.88	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.664	2.89	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.693	2.91	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.680	2.87	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.694	2.88	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.682	2.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.478	4.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.472	4.88	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.485	4.91	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.473	4.86	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.470	4.87	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.471	4.96	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.481	5.05	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.476	4.98	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.478	4.99	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.947	9.74	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.949	9.72	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.958	9.76	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.943	9.68	PASS



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Report No.: SEWM2304000111RG01

Rev.: 01

Page: 17 of 53

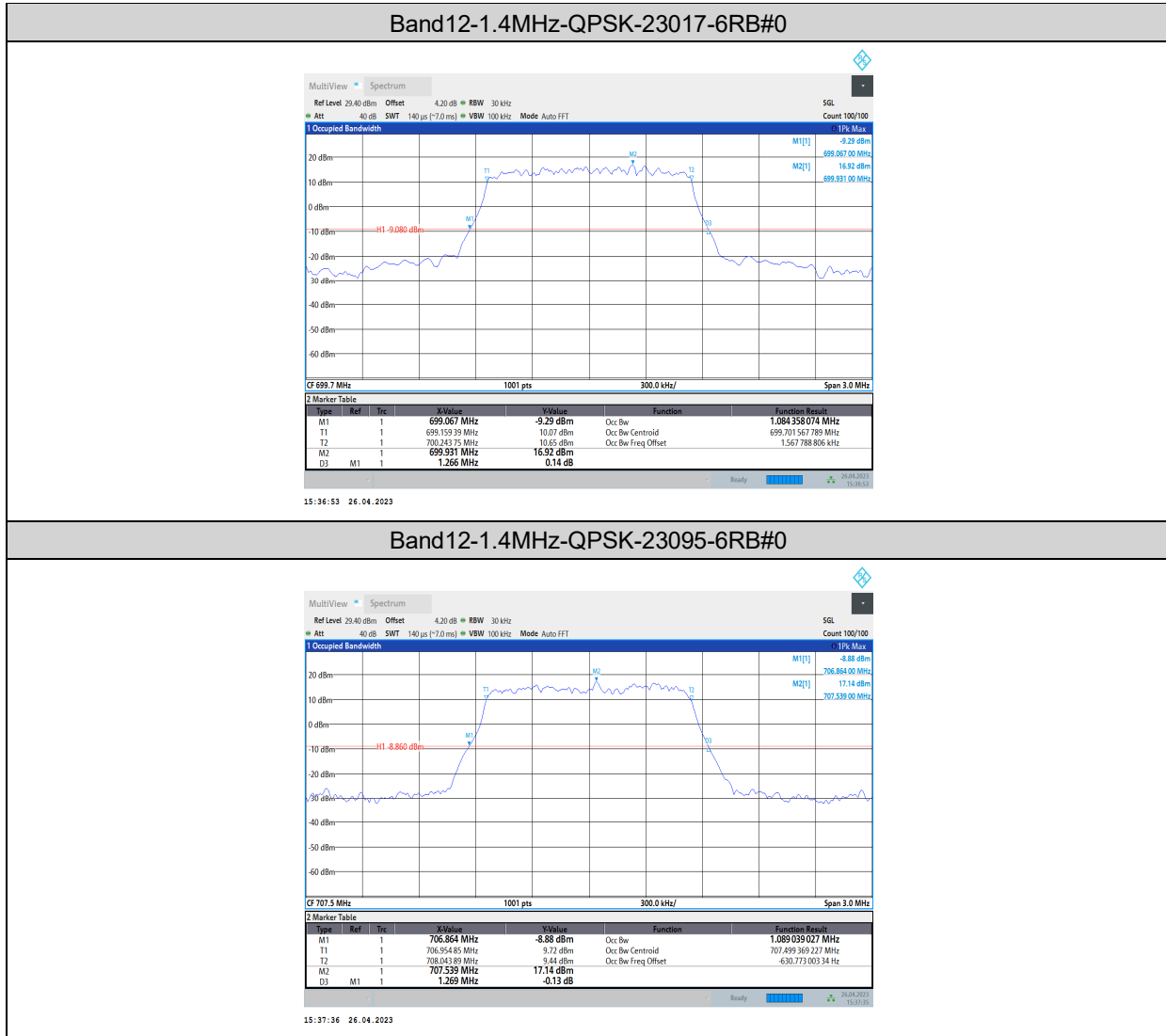
Band12	10MHz	16QAM	23095	50RB#0	8.925	9.78	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.911	9.60	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.968	9.88	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.935	9.70	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.941	9.62	PASS



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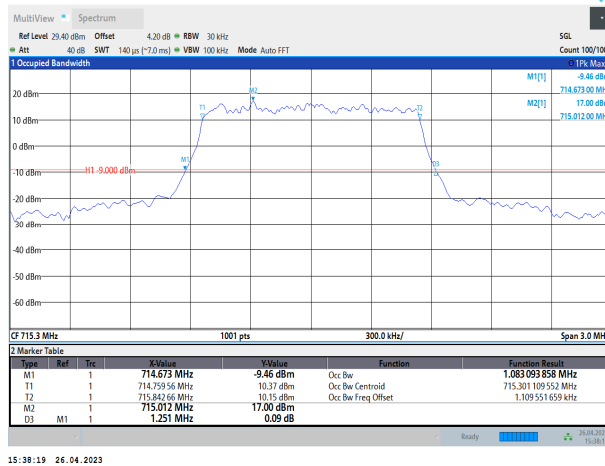


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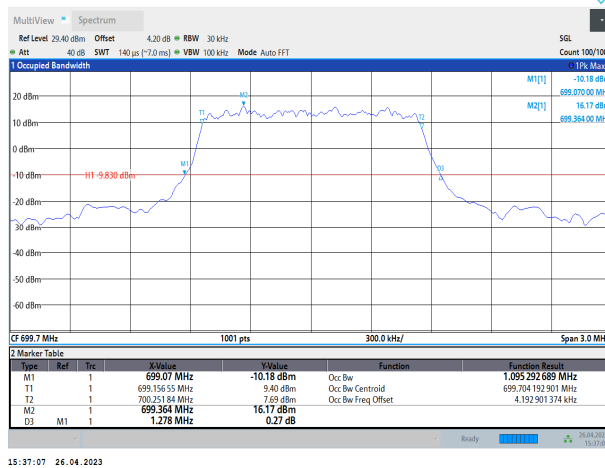
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Band12-1.4MHz-QPSK-23173-6RB#0



Band12-1.4MHz-16QAM-23017-6RB#0

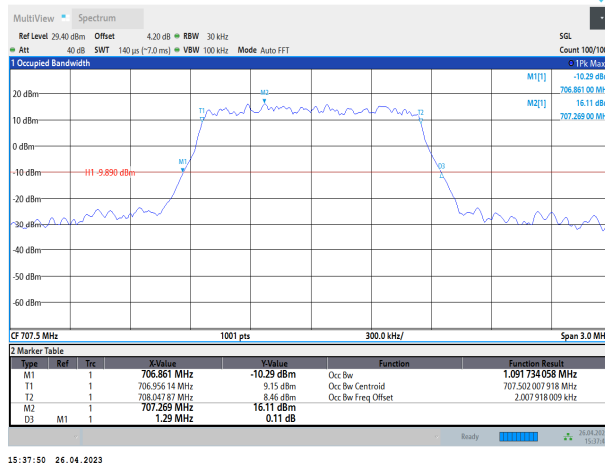


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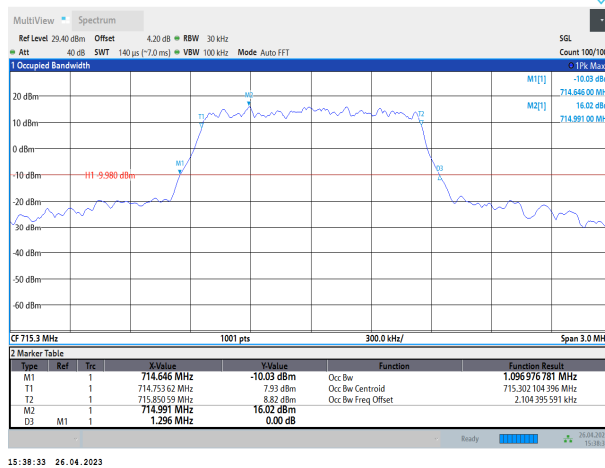
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Band12-1.4MHz-16QAM-23095-6RB#0



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

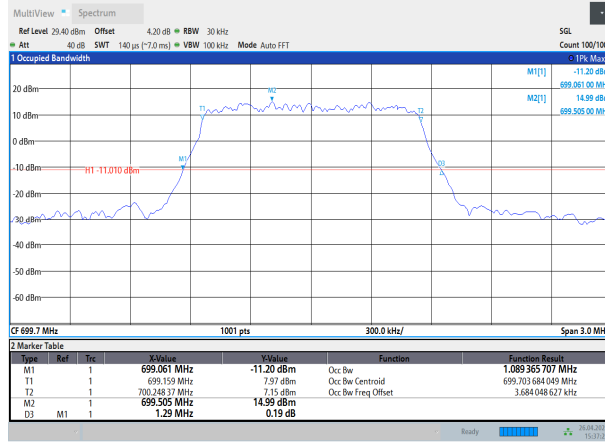


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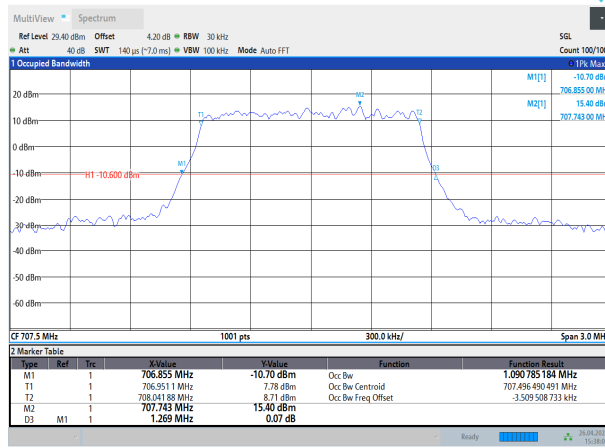
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Band12-1.4MHz-64QAM-23017-6RB#0



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

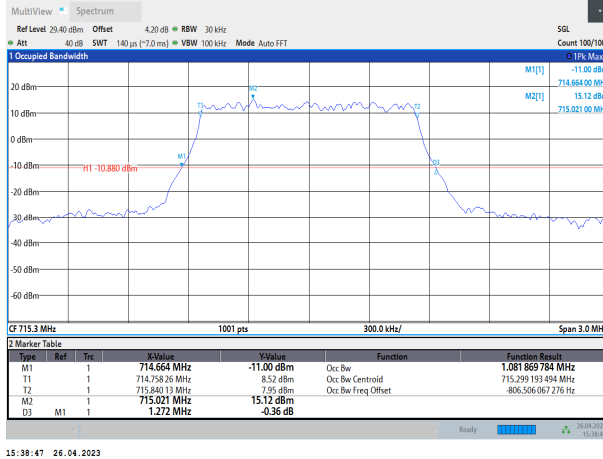


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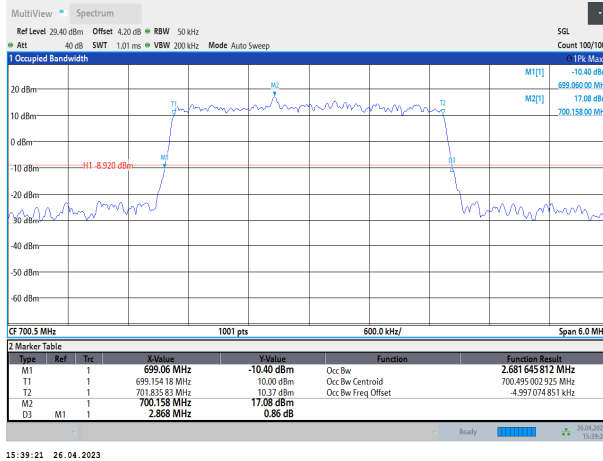
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Band12-1.4MHz-64QAM-23173-6RB#0



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

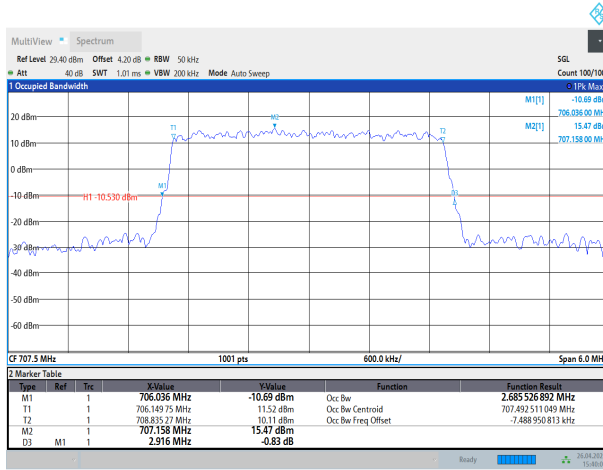


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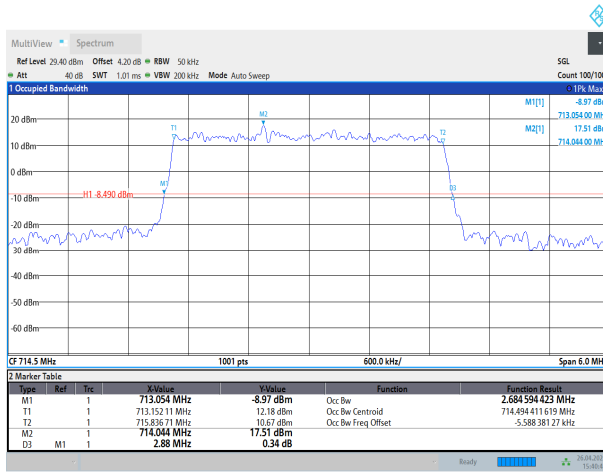
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Band12-3MHz-QPSK-23095-15RB#0



15:40:01 26.04.2023

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



15:40:40 26.04.2023

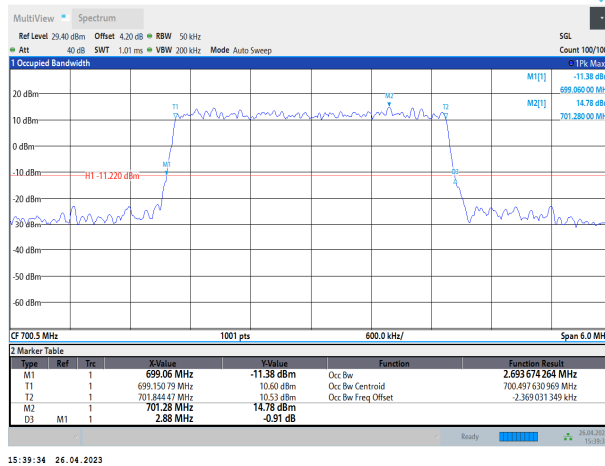


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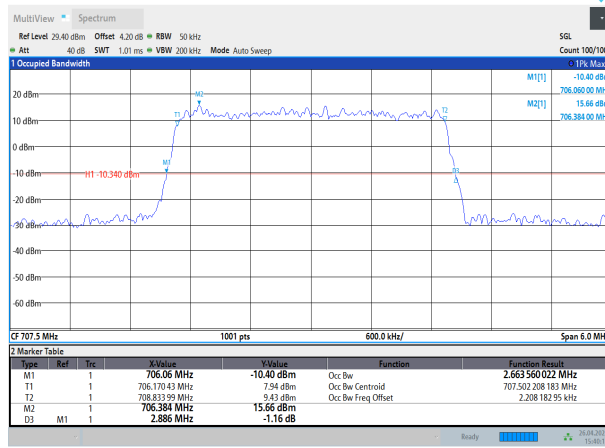
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Band12-3MHz-16QAM-23025-15RB#0



15:39:34 26.04.2023

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



15:40:14 26.04.2023

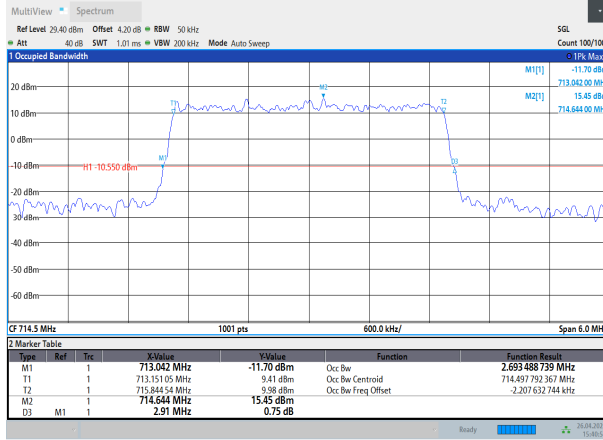


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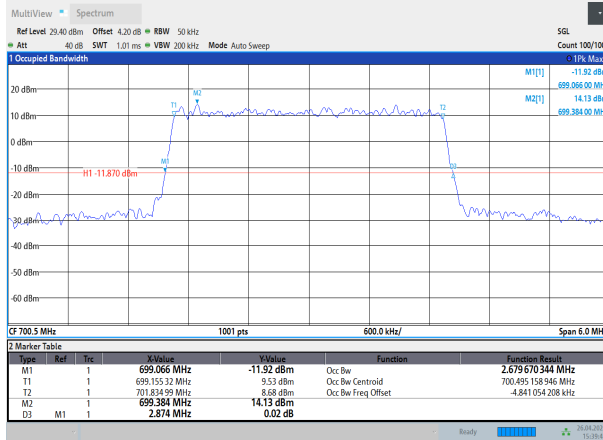
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Band12-3MHz-16QAM-23165-15RB#0



15:40:53 26.04.2023

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



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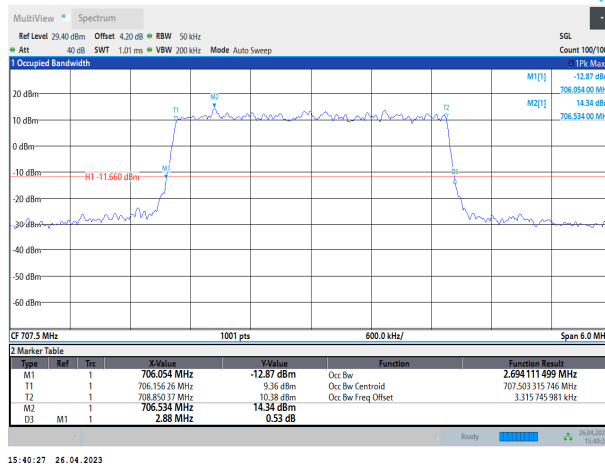


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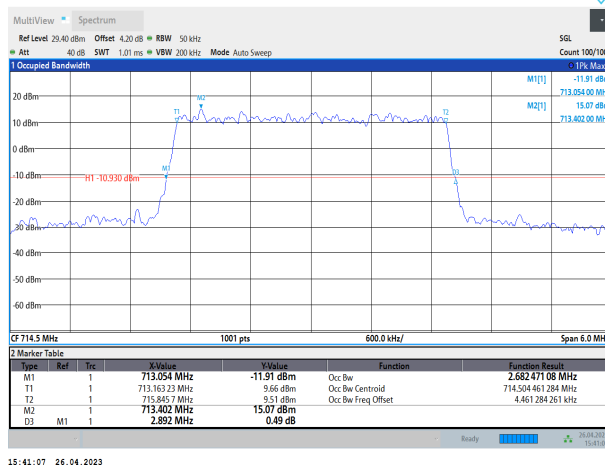
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Band12-3MHz-64QAM-23095-15RB#0



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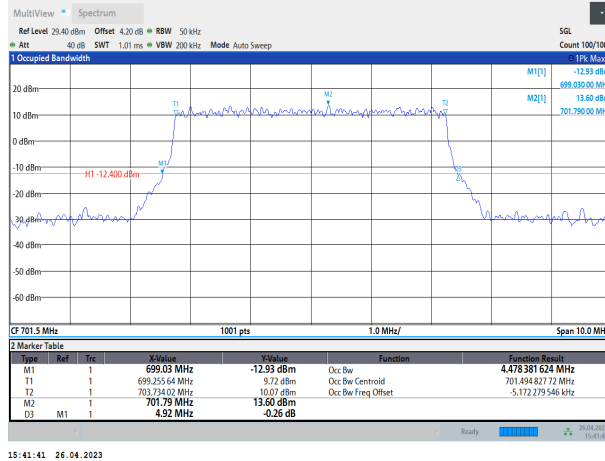


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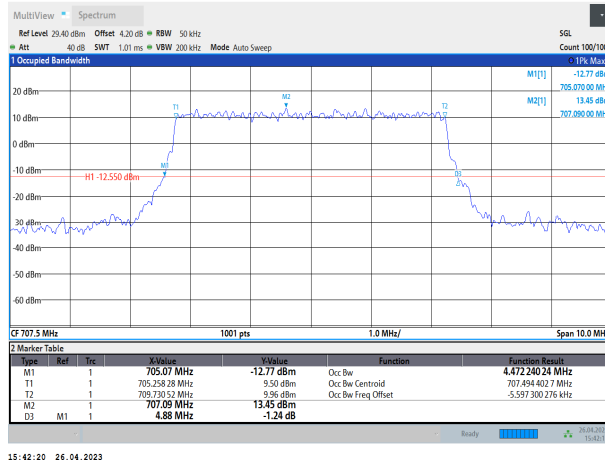
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Band12-5MHz-QPSK-23035-25RB#0



Band12-5MHz-QPSK-23095-25RB#0

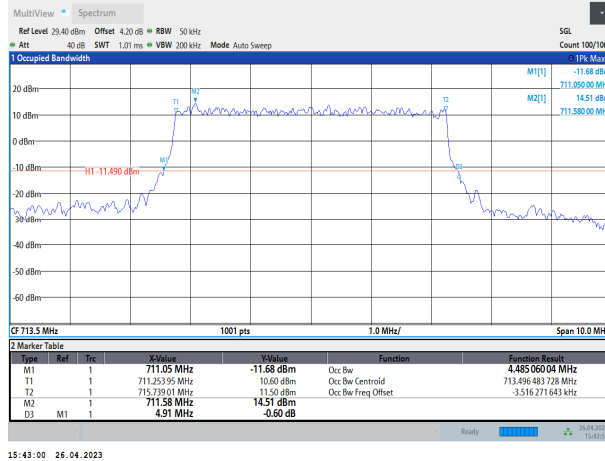


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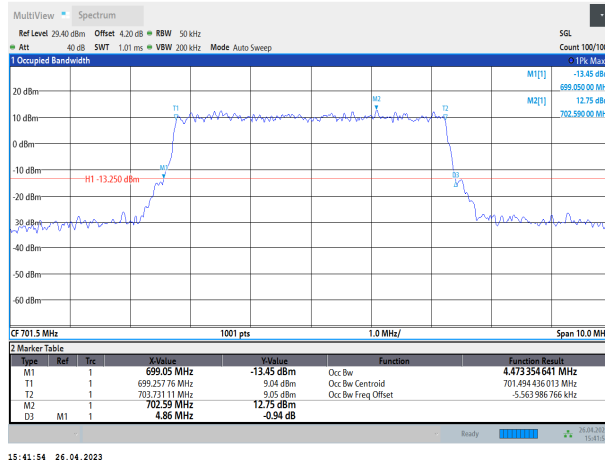
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Band12-5MHz-QPSK-23155-25RB#0



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

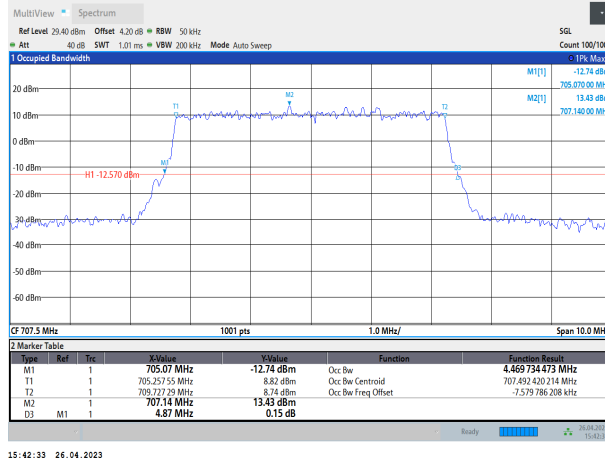


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Band12-5MHz-16QAM-23095-25RB#0



15:42:33 26.04.2023

Band12-5MHz-16QAM-23155-25RB#0



15:43:13 26.04.2023

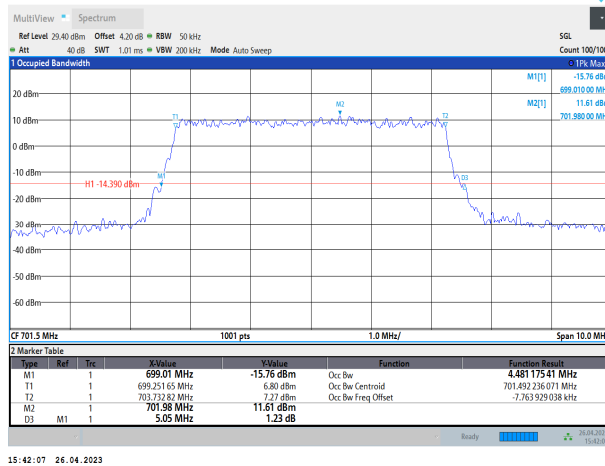


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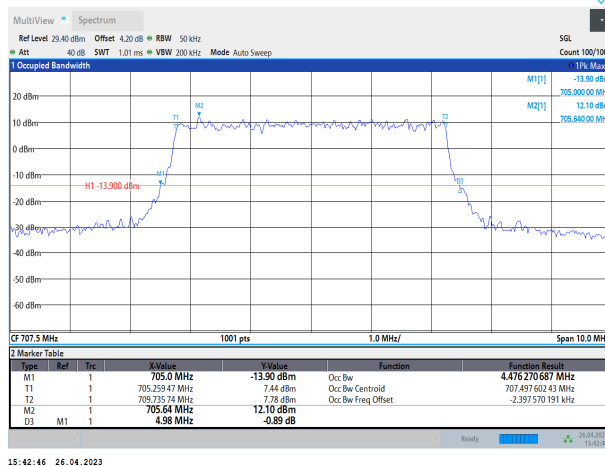
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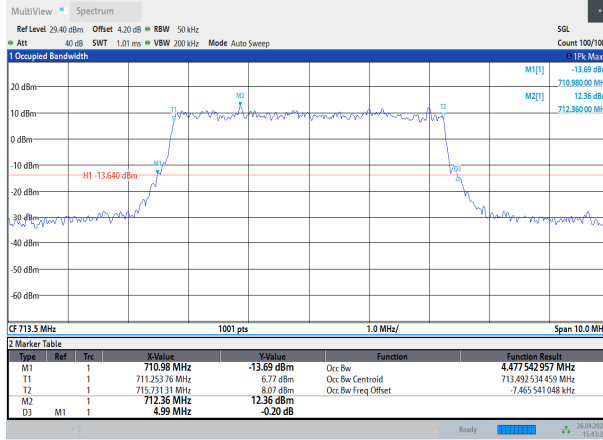


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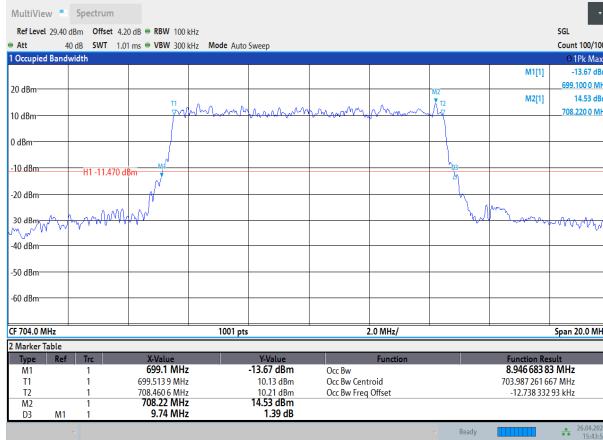
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Band12-5MHz-64QAM-23155-25RB#0



15:43:26 26.04.2023

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



15:44:00 26.04.2023

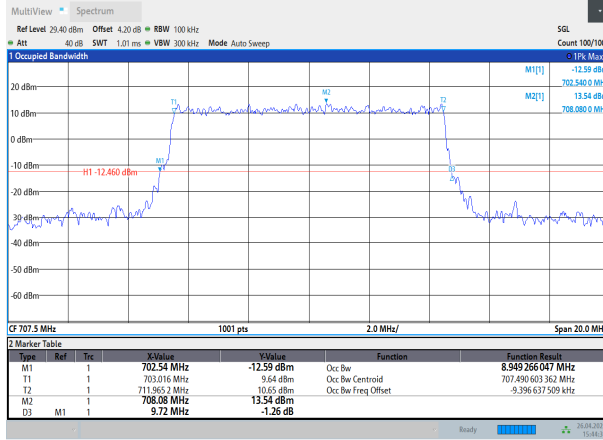


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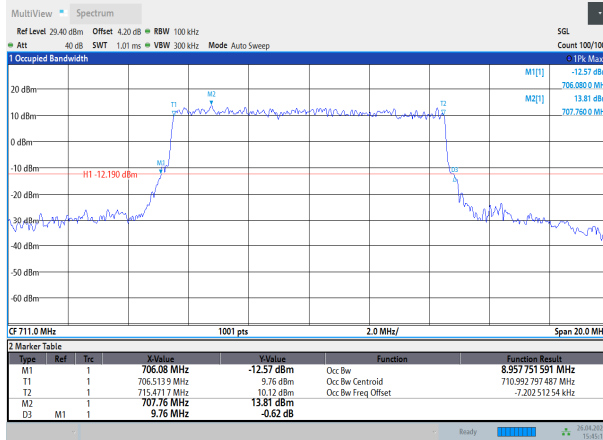
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Band12-10MHz-QPSK-23095-50RB#0



15:44:39 26.04.2023

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



15:45:19 26.04.2023

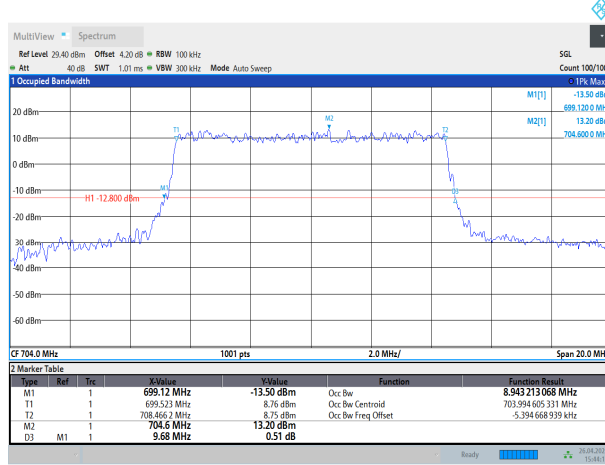


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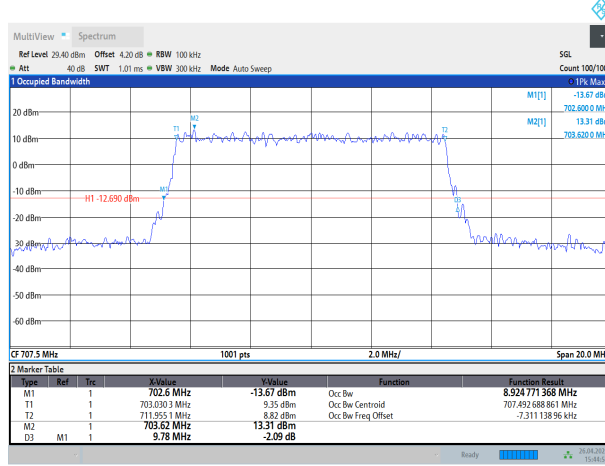
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Band12-10MHz-16QAM-23060-50RB#0



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

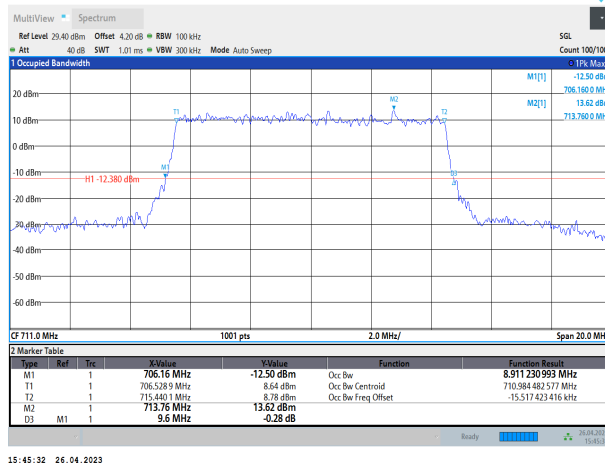


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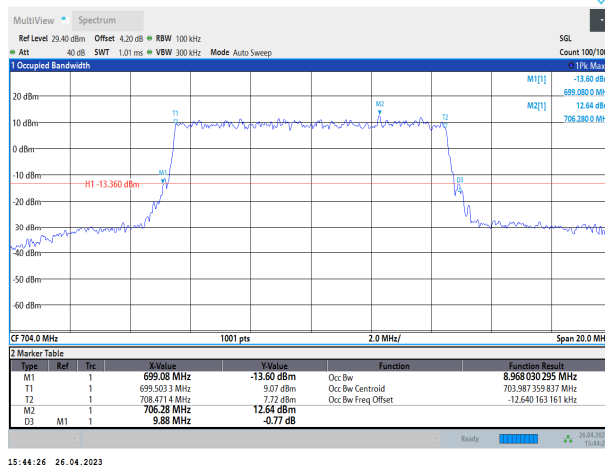
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Band12-10MHz-16QAM-23130-50RB#0



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

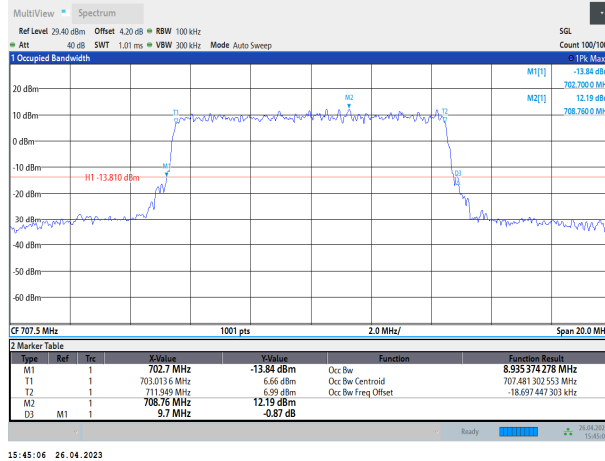


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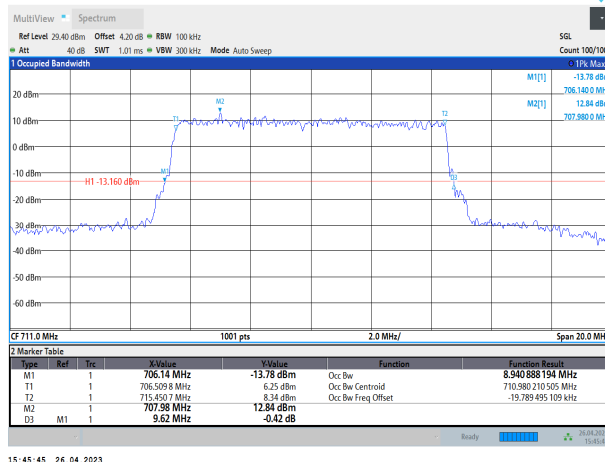
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Band12-10MHz-64QAM-23095-50RB#0



15:45:06 26.04.2023

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



15:45:45 26.04.2023



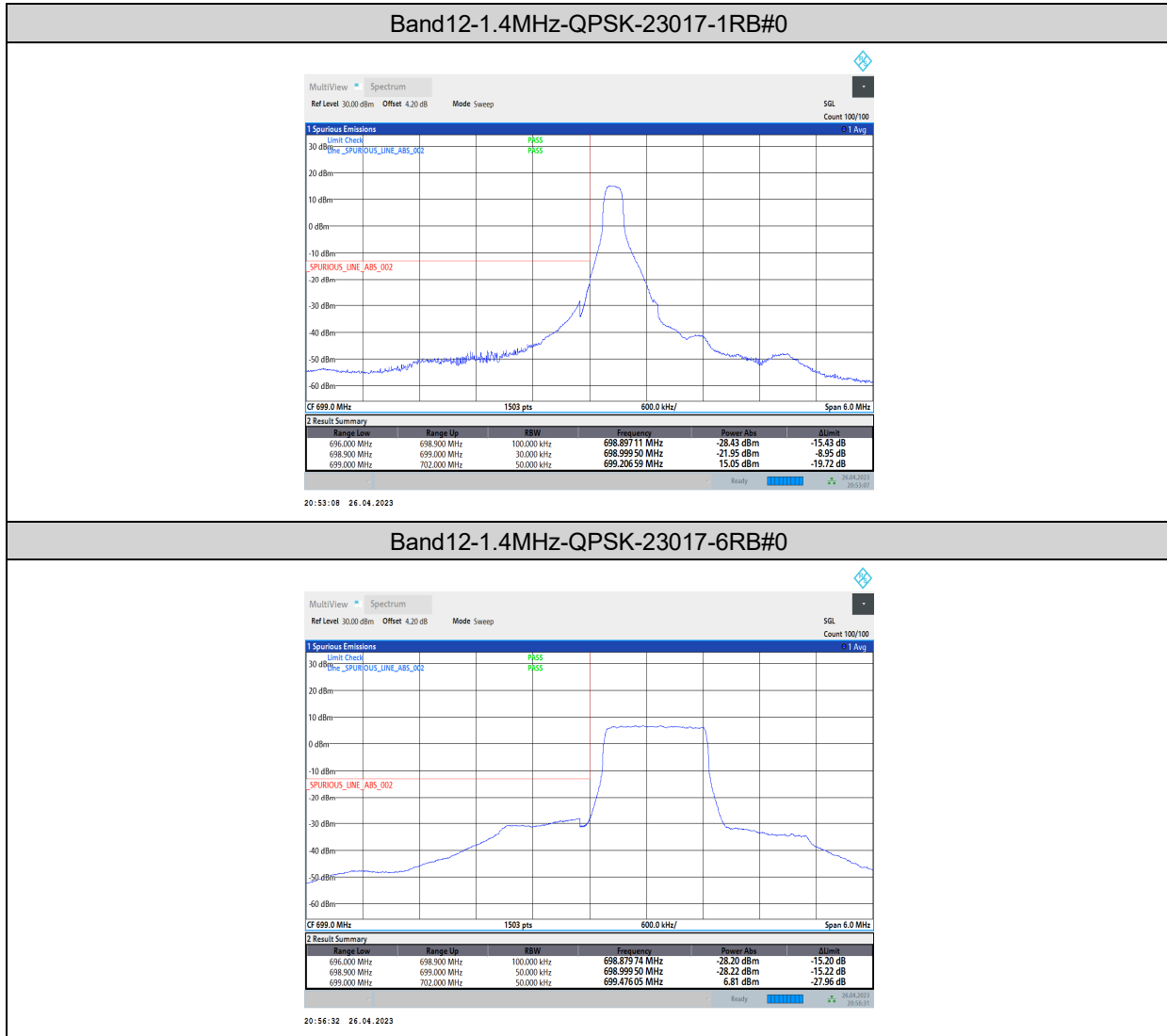
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Band Edge

Test Graphs

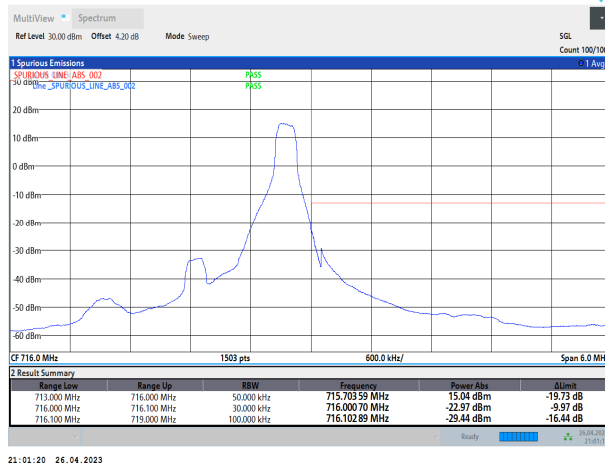


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Band12-1.4MHz-QPSK-23173-1RB#5



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

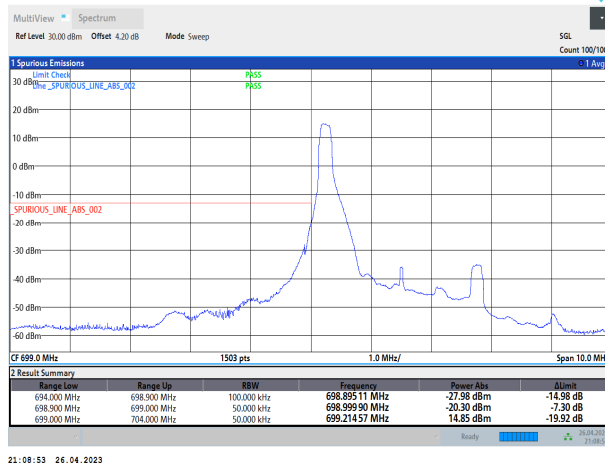


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Band12-3MHz-QPSK-23025-1RB#0



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



21:12:17 26.04.2023

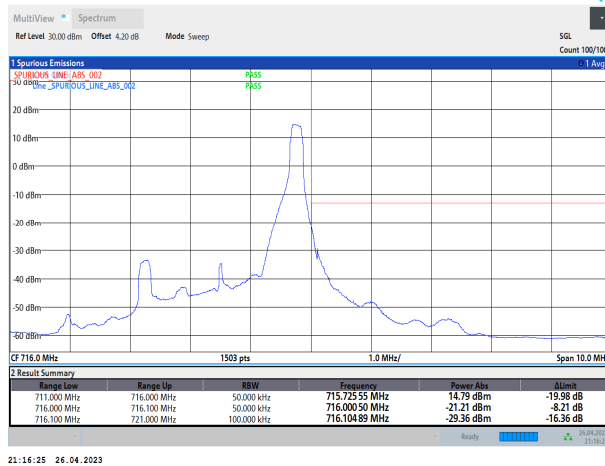


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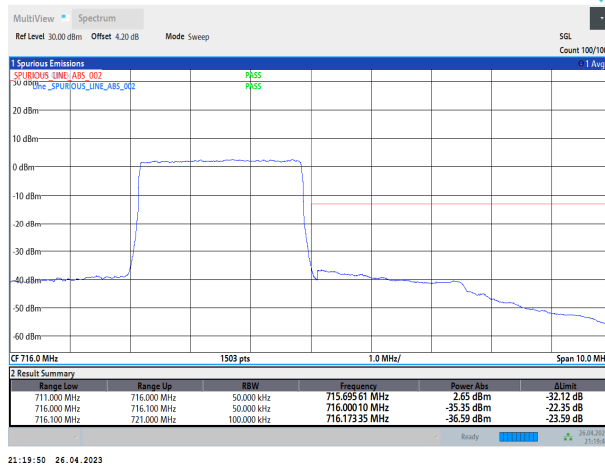
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Band12-3MHz-QPSK-23165-1RB#14



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

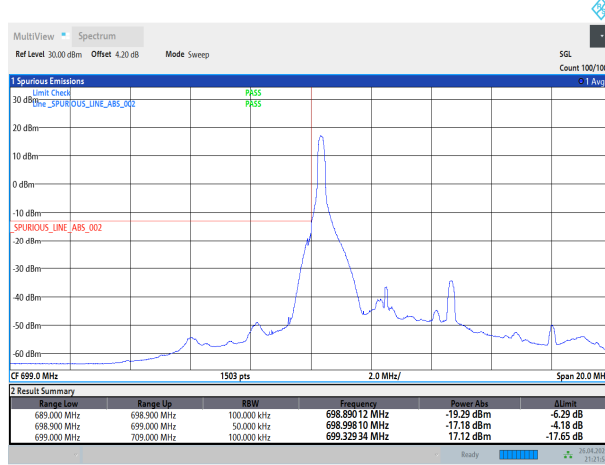


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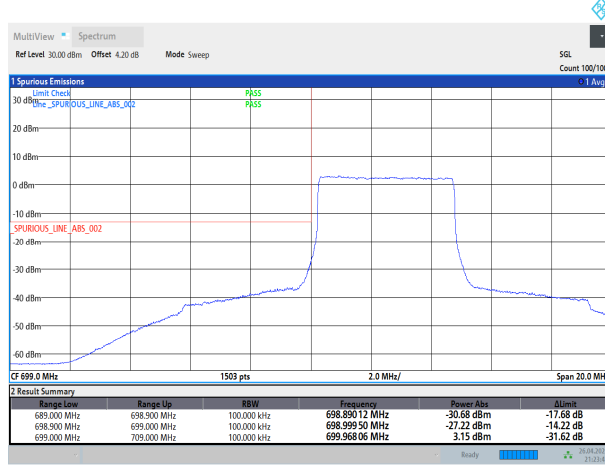
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Band12-5MHz-QPSK-23035-1RB#0



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



21:23:44 26.04.2023

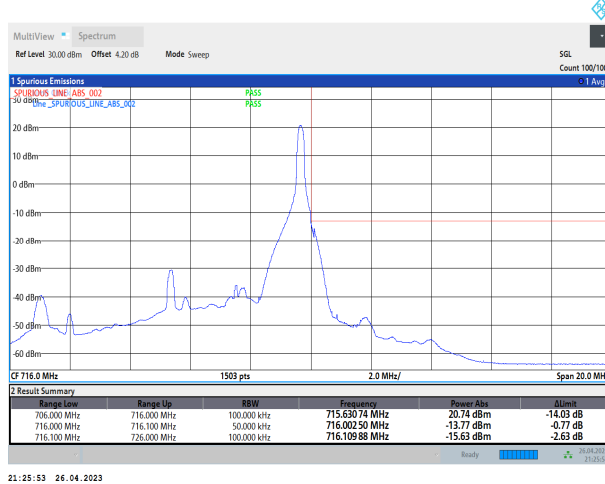


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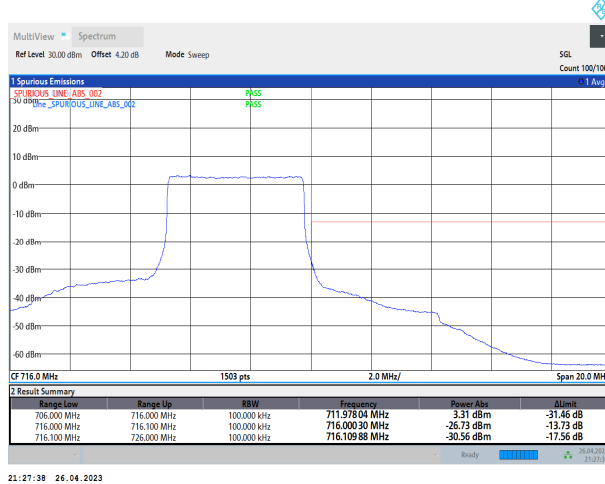
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Band12-5MHz-QPSK-23155-1RB#24



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

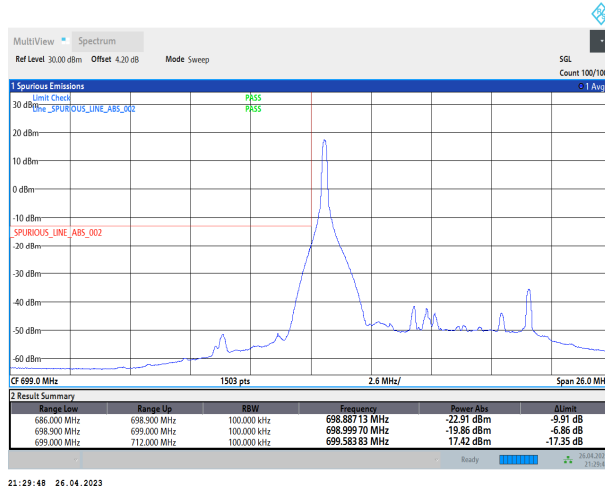


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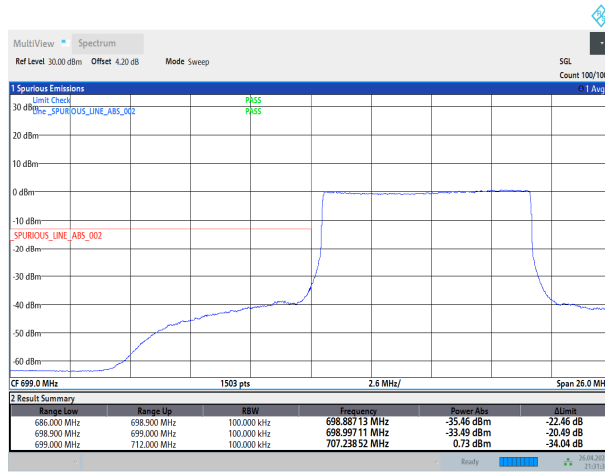
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Band12-10MHz-QPSK-23060-1RB#0



21:29:48 26.04.2023

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



21:31:32 26.04.2023

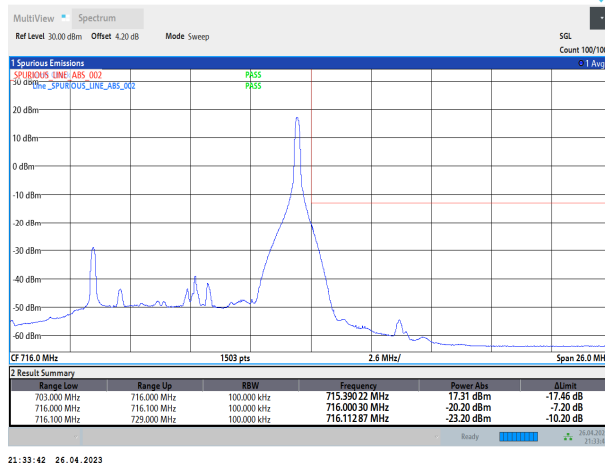


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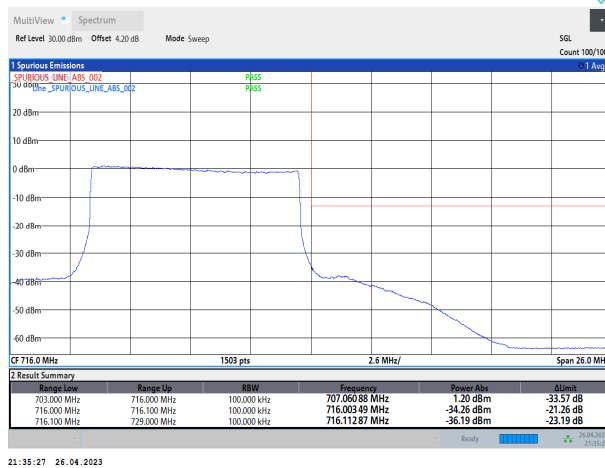
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Band12-10MHz-QPSK-23130-1RB#49



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



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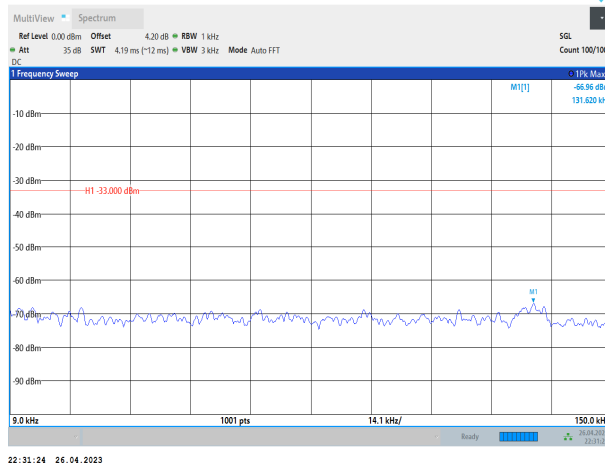
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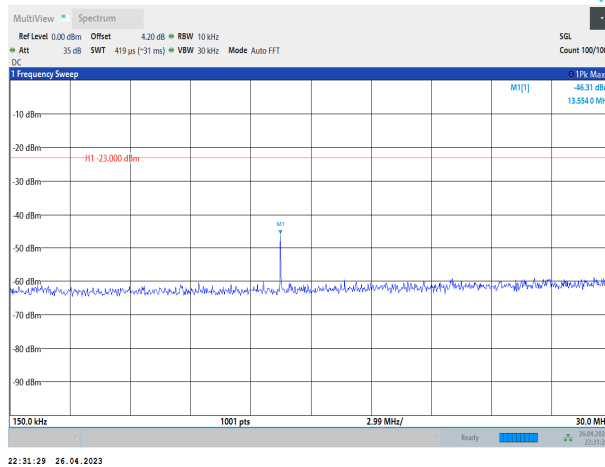
Conducted Spurious Emission

Test Graphs

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



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

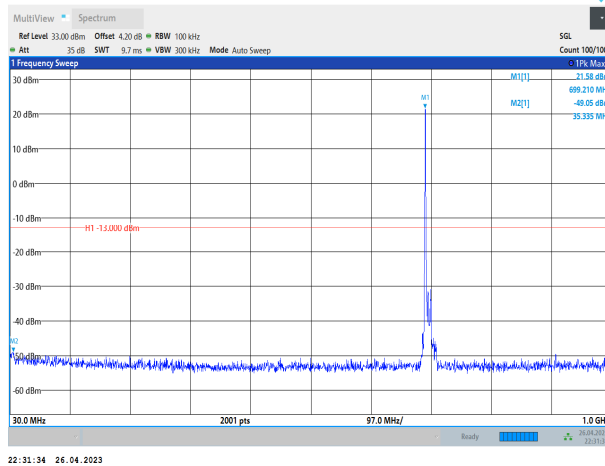


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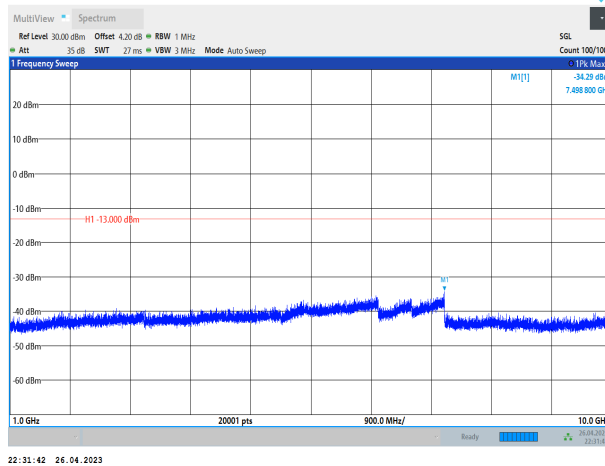
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

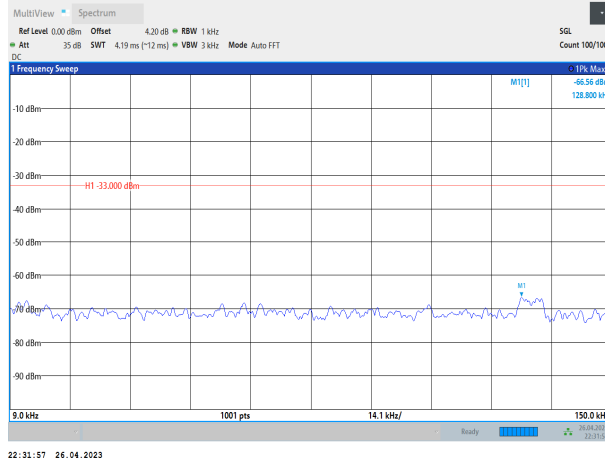


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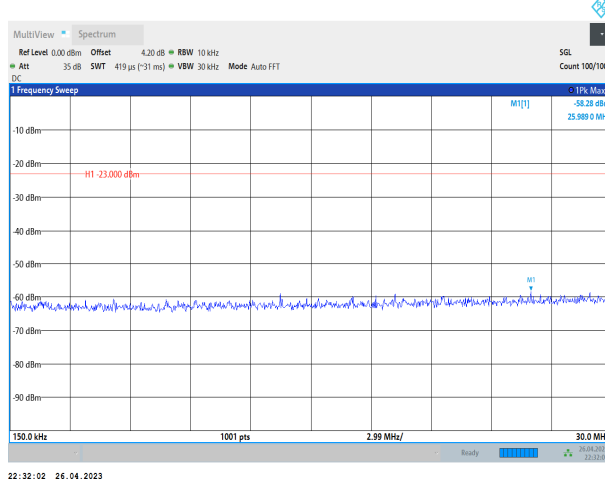
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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

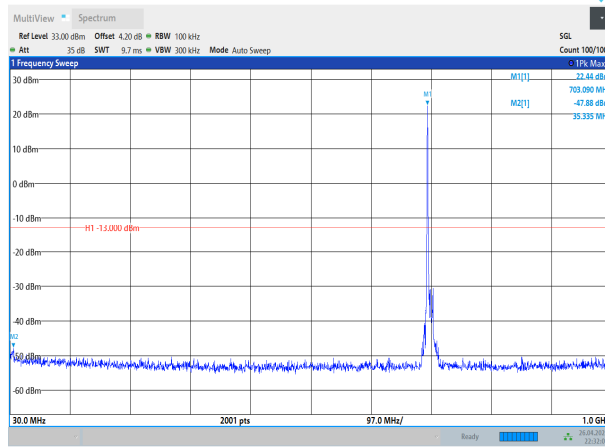


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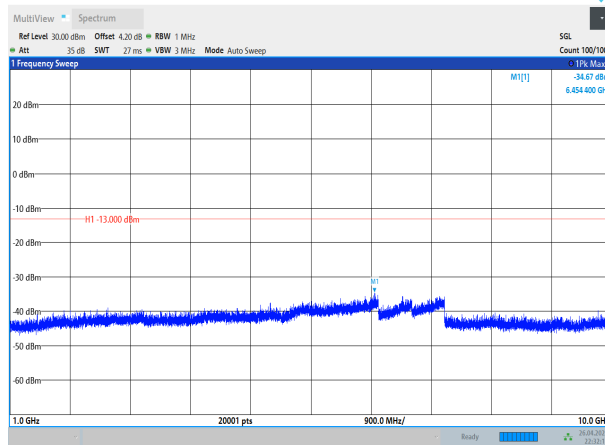
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



22:32:07 26.04.2023

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



22:32:15 26.04.2023

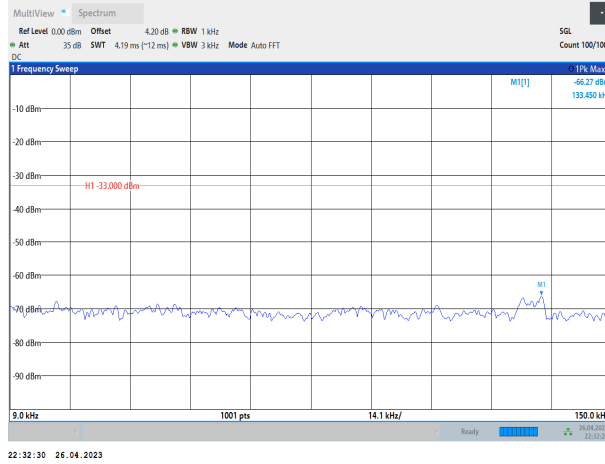


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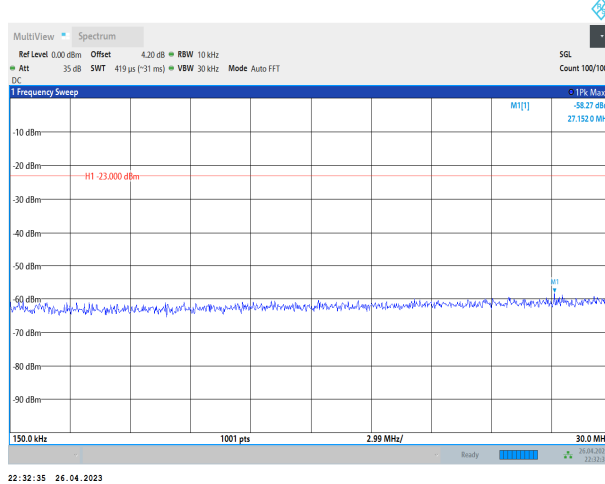
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

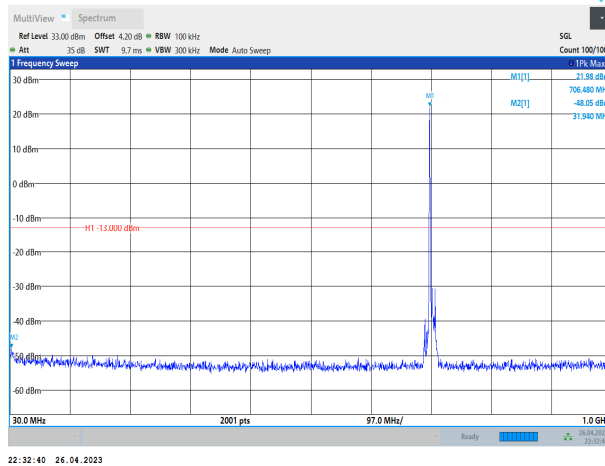


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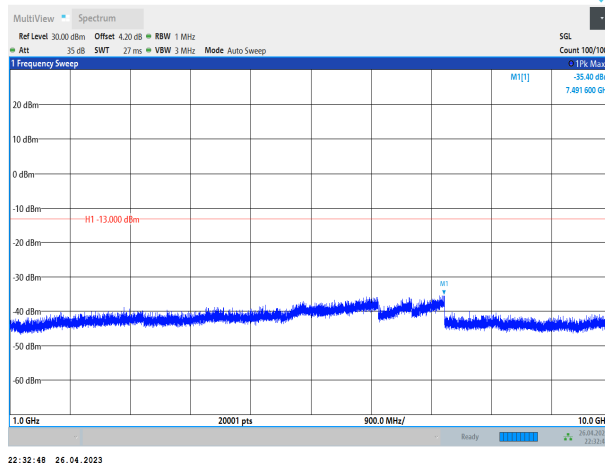
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE B12_ 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	1406.2857	74.43	-48.02	25.61	-43.24	-13.00	30.24	110	145	Horizontal
2	2109.1429	46.93	-47.71	27.02	-69.02	-13.00	56.02	124	185	Horizontal
3	2798.3600	43.42	-46.92	28.48	-70.28	-13.00	57.28	163	277	Horizontal
4	3497.9500	42.87	-46.54	29.52	-69.41	-13.00	56.41	258	349	Horizontal
5	4197.5400	41.58	-45.96	31.10	-68.54	-13.00	55.54	191	13	Horizontal
6	4897.1300	42.48	-45.58	32.59	-65.77	-13.00	52.77	214	172	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	1406.2857	65.62	-48.02	25.61	-52.05	-13.00	39.05	152	307	Vertical
2	2109.1429	47.62	-47.71	27.02	-68.33	-13.00	55.33	147	4	Vertical
3	2798.3600	43.29	-46.92	28.48	-70.41	-13.00	57.41	221	356	Vertical
4	3497.9500	43.29	-46.54	29.52	-68.99	-13.00	55.99	236	148	Vertical
5	4197.5400	41.73	-45.96	31.10	-68.39	-13.00	55.39	145	163	Vertical
6	4897.1300	43.27	-45.58	32.59	-64.98	-13.00	51.98	158	307	Vertical



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Test Band = LTE B12_ 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	73.34	-48.02	25.61	-44.33	-13.00	31.33	155	171	Horizontal
2	2109.1429	49.57	-47.71	27.02	-66.38	-13.00	53.38	126	264	Horizontal
3	2812.3600	44.14	-46.88	28.53	-69.46	-13.00	56.46	168	224	Horizontal
4	3515.4500	43.07	-46.51	29.53	-69.16	-13.00	56.16	147	11	Horizontal
5	4218.5400	41.73	-45.93	31.14	-68.32	-13.00	55.32	123	342	Horizontal
6	4921.6300	42.74	-45.63	32.66	-65.49	-13.00	52.49	251	304	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	66.21	-48.02	25.61	-51.46	-13.00	38.46	158	307	Vertical
2	2109.1429	47.12	-47.71	27.02	-68.83	-13.00	55.83	255	4	Vertical
3	2812.3600	44.04	-46.88	28.53	-69.56	-13.00	56.56	147	28	Vertical
4	3515.4500	43.33	-46.51	29.53	-68.90	-13.00	55.90	162	280	Vertical
5	4218.5400	41.82	-45.93	31.14	-68.23	-13.00	55.23	159	280	Vertical
6	4921.6300	42.25	-45.63	32.66	-65.98	-13.00	52.98	132	41	Vertical



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Test Band = LTE B12_ 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	1413.1429	70.62	-48.04	25.60	-47.08	-13.00	34.08	157	239	Horizontal
2	2119.7700	47.56	-47.70	27.06	-68.34	-13.00	55.34	169	185	Horizontal
3	2826.3600	43.40	-46.83	28.60	-70.09	-13.00	57.09	185	198	Horizontal
4	3532.9500	42.69	-46.47	29.55	-69.49	-13.00	56.49	132	350	Horizontal
5	4239.5400	42.15	-45.89	31.18	-67.82	-13.00	54.82	225	318	Horizontal
6	4946.1300	42.44	-45.69	32.73	-65.78	-13.00	52.78	187	239	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	1413.1429	65.43	-48.04	25.60	-52.27	-13.00	39.27	105	123	Vertical
2	2119.7700	46.26	-47.70	27.06	-69.64	-13.00	56.64	158	4	Vertical
3	2826.3600	43.69	-46.83	28.60	-69.80	-13.00	56.80	169	97	Vertical
4	3532.9500	42.93	-46.47	29.55	-69.25	-13.00	56.25	132	215	Vertical
5	4239.5400	41.61	-45.89	31.18	-68.36	-13.00	55.36	154	294	Vertical
6	4946.1300	42.44	-45.69	32.73	-65.78	-13.00	52.78	251	215	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-2.40	-0.003392	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-9.40	-0.013286	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-6.60	-0.009329	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-7.00	-0.009894	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-8.60	-0.012155	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.70	-0.005230	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-7.40	-0.010459	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-3.80	-0.005371	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-8.00	-0.011307	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-6.60	-0.009329	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-10.90	-0.015406	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.90	-0.001272	PASS

---End of Attachment---



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