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Appendix B.7

LTE Band 12



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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com

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	23.73	16.61	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.86	16.74	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.76	16.64	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.87	15.75	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.74	16.62	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.84	16.72	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.70	16.58	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.90	15.78	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.67	16.55	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.84	16.72	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.67	16.55	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.87	15.75	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.00	15.88	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.18	16.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.06	15.94	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.98	14.86	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.03	15.91	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.20	16.08	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.08	15.96	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.99	14.87	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.05	15.93	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.23	16.11	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.06	15.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.01	14.89	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.03	14.91	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.13	15.01	34.77	PASS



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 中国·西安·沣东新城科源三路137号康隆橙方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com



Band12	1.4MHz	64QAM	23017	1RB#5	21.95	14.83	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.88	13.76	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.97	14.85	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.05	14.93	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.93	14.81	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.93	13.81	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.00	14.88	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.09	14.97	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.90	14.78	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.90	13.78	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.76	16.64	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.76	16.64	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.81	16.69	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.84	15.72	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.75	16.63	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.75	16.63	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.74	16.62	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.86	15.74	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.78	16.66	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.73	16.61	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.72	16.60	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.84	15.72	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.07	15.95	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.12	16.00	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.13	16.01	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.89	14.77	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.13	16.01	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.08	15.96	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.10	15.98	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.87	14.75	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.10	15.98	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.13	16.01	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.00	15.88	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	21.87	14.75	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.06	14.94	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.02	14.90	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.08	14.96	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.88	13.76	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.04	14.92	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.00	14.88	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.02	14.90	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.89	13.77	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.02	14.90	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.07	14.95	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.92	14.80	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.84	13.72	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.71	16.59	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.00	16.88	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.65	16.53	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.85	15.73	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.67	16.55	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.90	16.78	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.61	16.49	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.86	15.74	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.64	16.52	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.91	16.79	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.60	16.48	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.85	15.73	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.93	15.81	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.26	16.14	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.99	15.87	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.91	14.79	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.01	15.89	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.15	16.03	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.99	15.87	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.89	14.77	34.77	PASS



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Band12	5MHz	16QAM	23155	1RB#0	23.02	15.90	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.15	16.03	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.96	15.84	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.89	14.77	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.92	14.80	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.13	15.01	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.02	14.90	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.89	13.77	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.93	14.81	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.24	15.12	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.92	14.80	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.91	13.79	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.93	14.81	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.21	15.09	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.87	14.75	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.91	13.79	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.74	16.62	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.88	16.76	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.71	16.59	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.94	15.82	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.75	16.63	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.84	16.72	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.72	16.60	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.90	15.78	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.76	16.64	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.84	16.72	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.74	16.62	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.86	15.74	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.06	15.94	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.17	16.05	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.04	15.92	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.99	14.87	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.07	15.95	34.77	PASS



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Band12	10MHz	16QAM	23095	1RB#24	23.19	16.07	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.06	15.94	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.90	14.78	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.11	15.99	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.15	16.03	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.98	15.86	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.87	14.75	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.04	14.92	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.13	15.01	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.01	14.89	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.99	13.87	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.99	14.87	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.09	14.97	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.97	14.85	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.91	13.79	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.05	14.93	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.08	14.96	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.96	14.84	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.88	13.76	34.77	PASS



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Wireless Laboratory

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中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn
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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	5.32	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.34	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.32	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.10	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.08	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.66	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.66	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.62	13	PASS

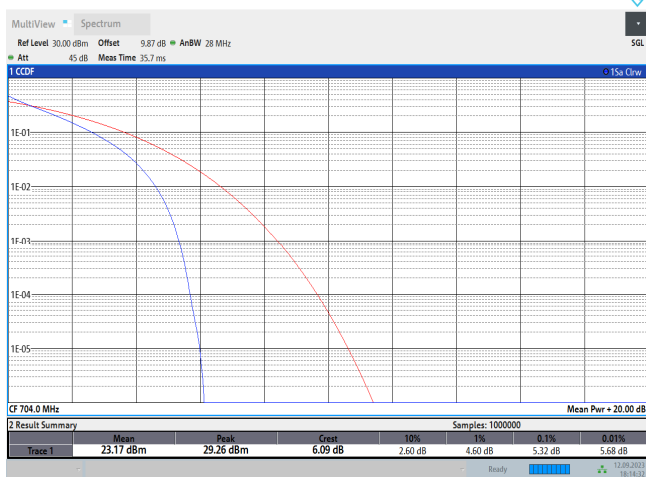


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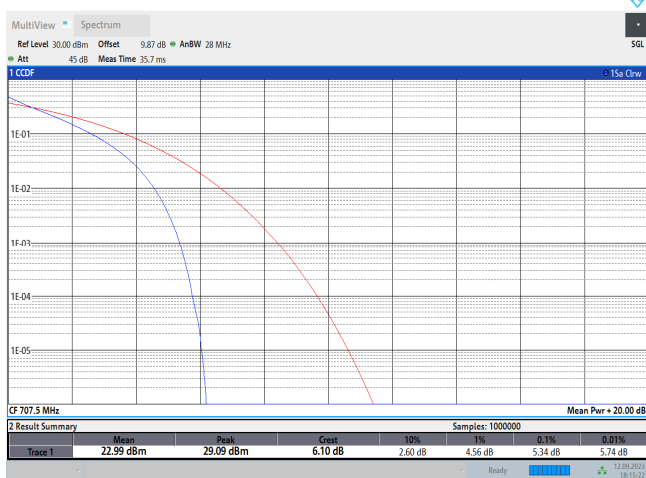
Test Graphs

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



18:14:32 12.09.2023

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

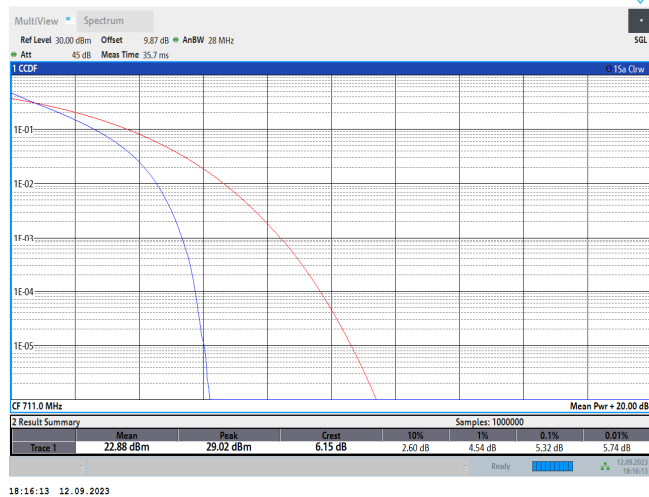


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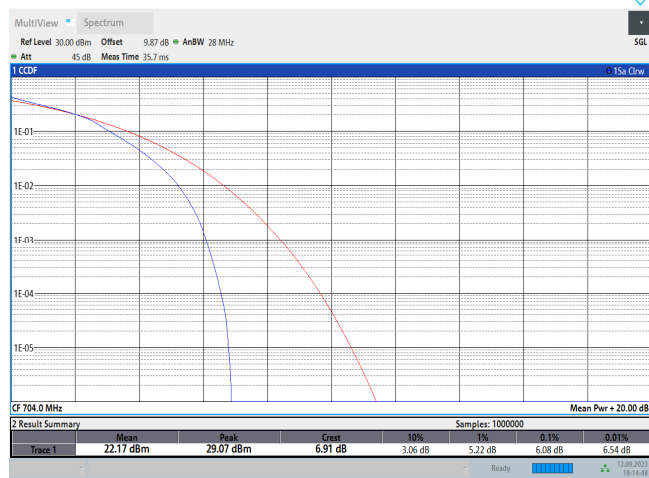
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Band12-10MHz-QPSK-23130-50RB#0



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



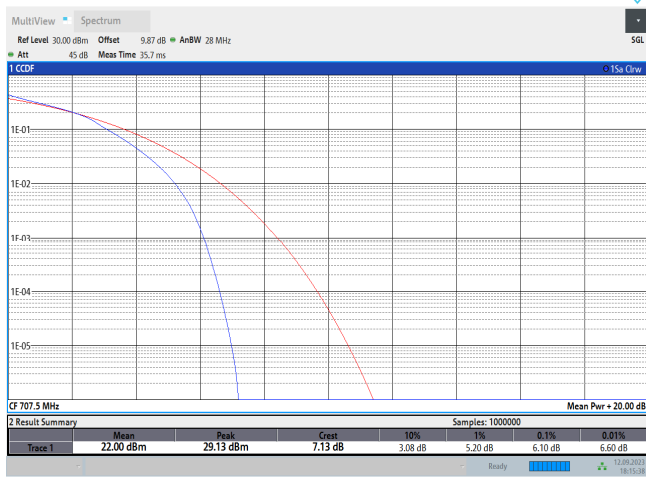
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Band12-10MHz-16QAM-23095-50RB#0



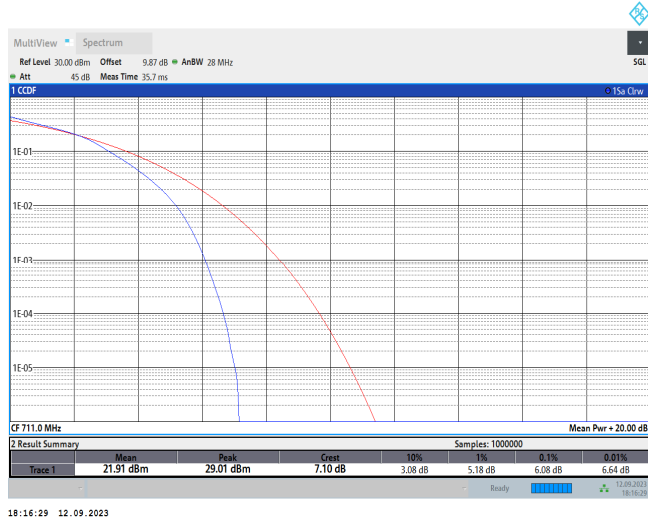
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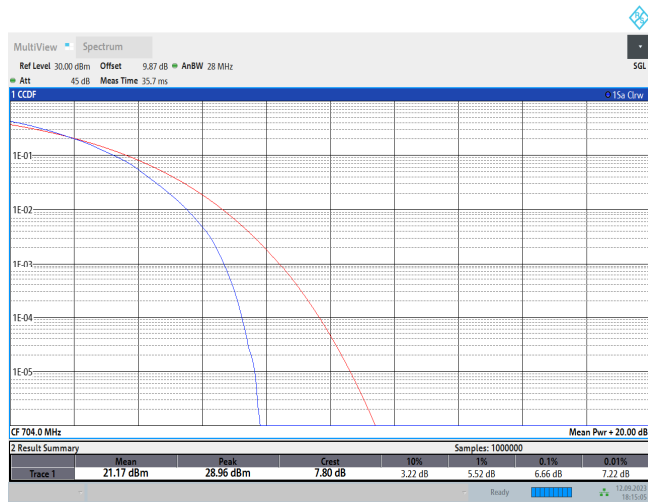
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Band12-10MHz-16QAM-23130-50RB#0



18:16:29 12.09.2023

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

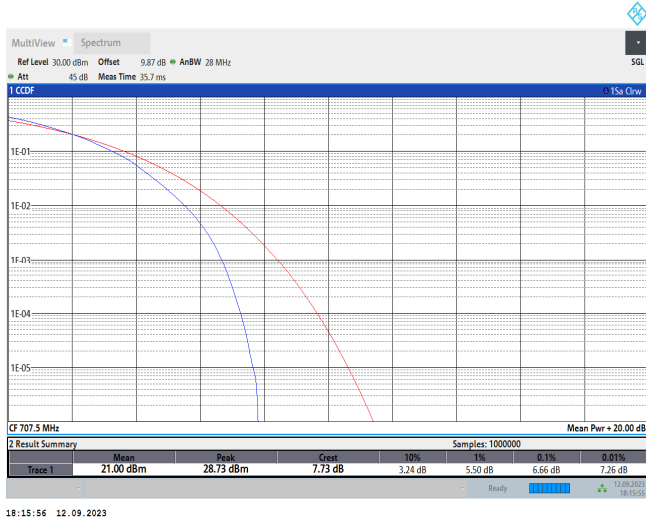


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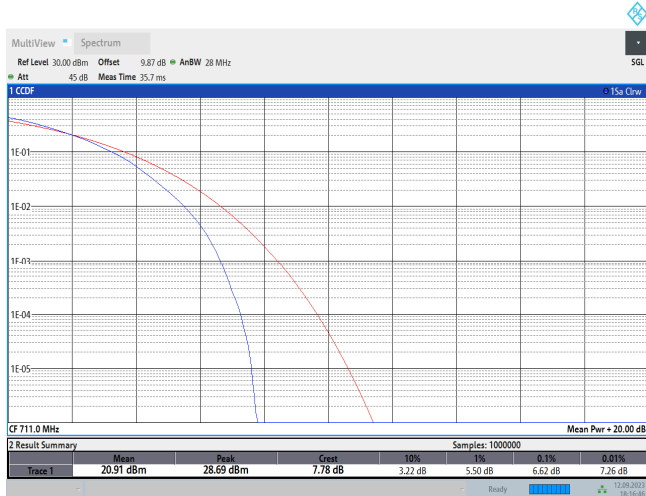
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Band12-10MHz-64QAM-23095-50RB#0



18:15:56 12.09.2023

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



18:16:46 12.09.2023



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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	1.085	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.085	1.27	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.097	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.095	1.30	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.095	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.688	2.88	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.687	2.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.692	2.90	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.678	2.91	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.679	2.92	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.68	2.91	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.683	2.89	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.679	2.90	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.682	2.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.478	5.05	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	5.03	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	5.04	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.475	5.09	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.475	5.07	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.468	5.03	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.488	5.07	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.483	5.06	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.487	5.07	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.956	9.86	PASS



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Report No.: XEWM2309000447RG01

Rev.: 01

Page: 14 of 55

Band12	10MHz	QPSK	23095	50RB#0	8.943	9.78	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.928	9.88	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.937	9.82	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.918	9.78	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.925	9.76	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.956	9.90	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.946	9.84	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.934	9.88	PASS

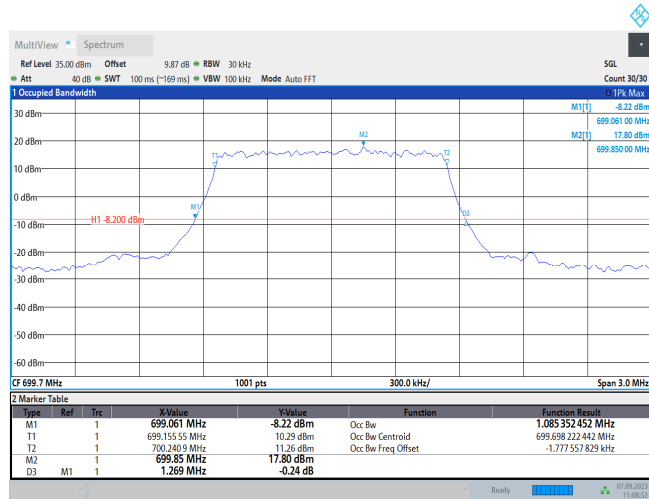


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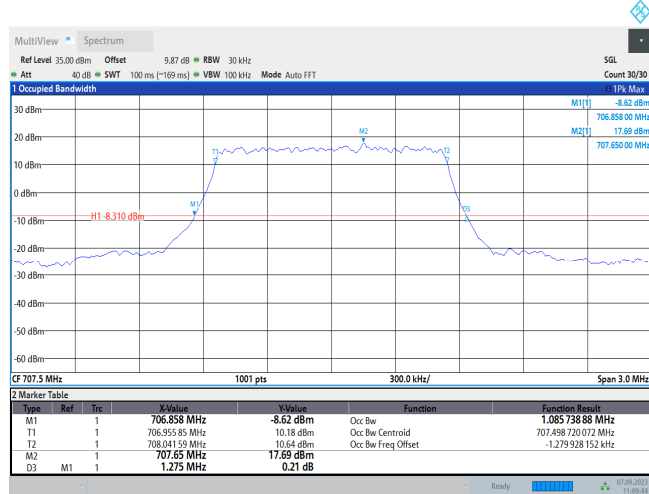
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Test Graphs

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



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

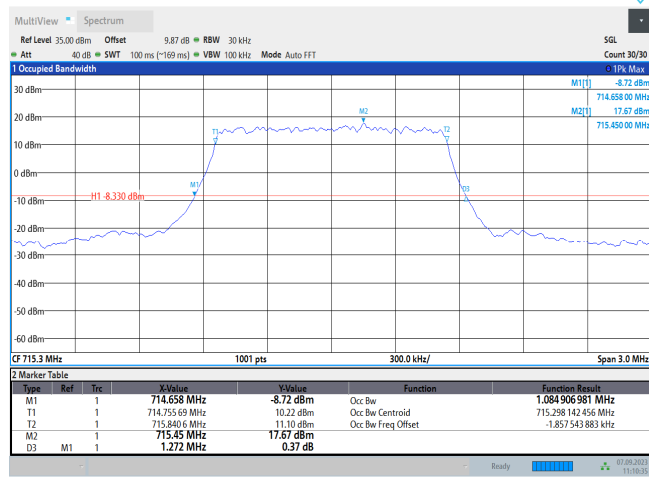


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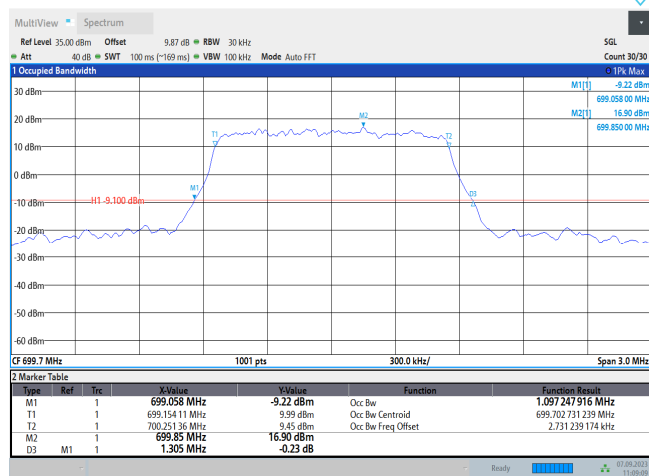
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Band12-1.4MHz-QPSK-23173-6RB#0



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



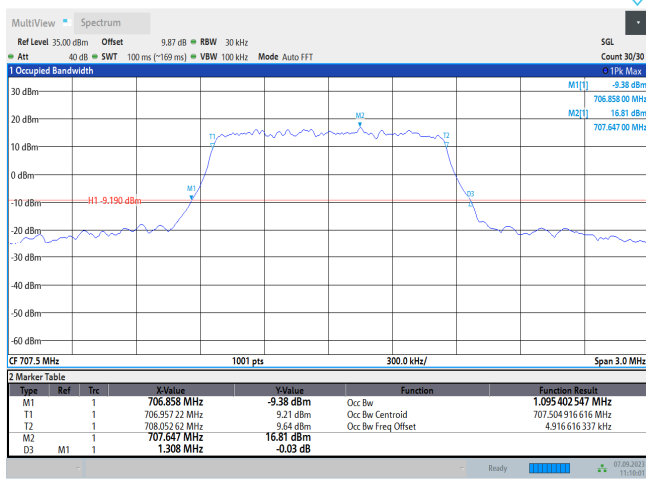
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Band12-1.4MHz-16QAM-23095-6RB#0



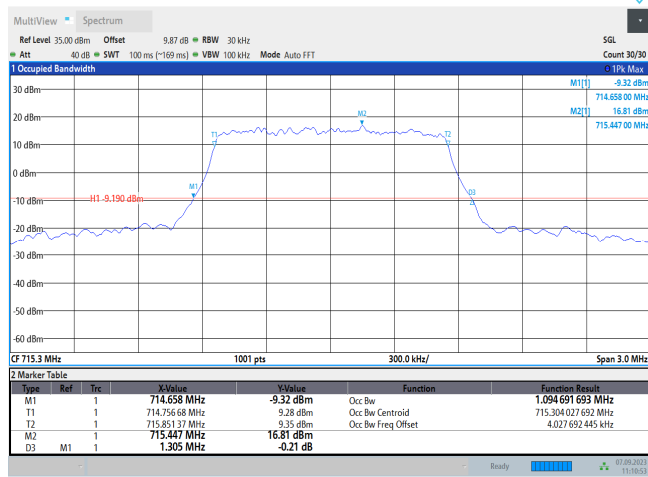
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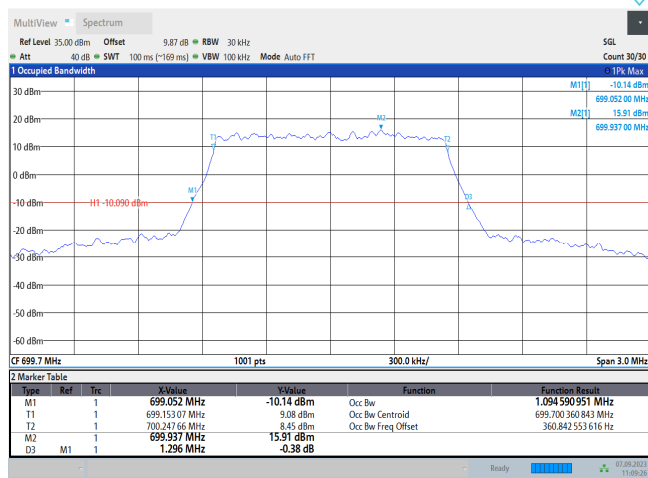
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Band12-1.4MHz-16QAM-23173-6RB#0



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



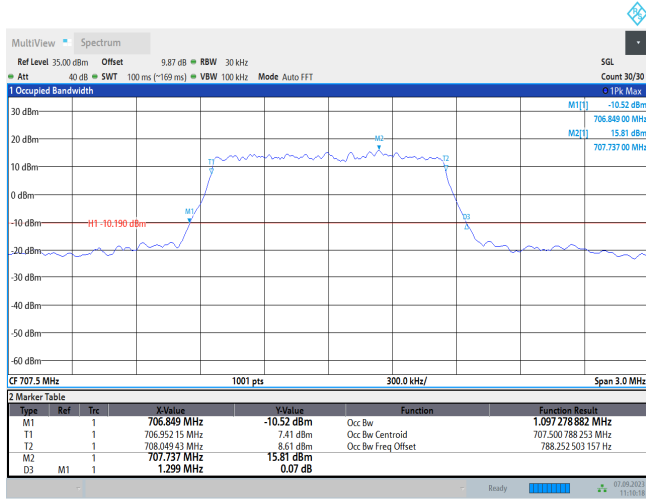
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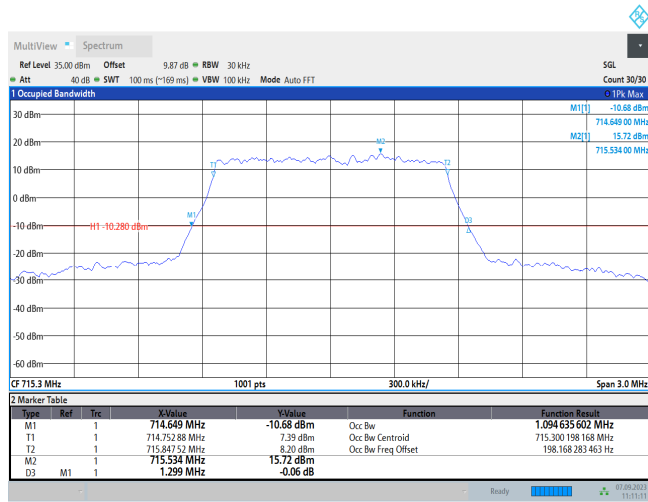
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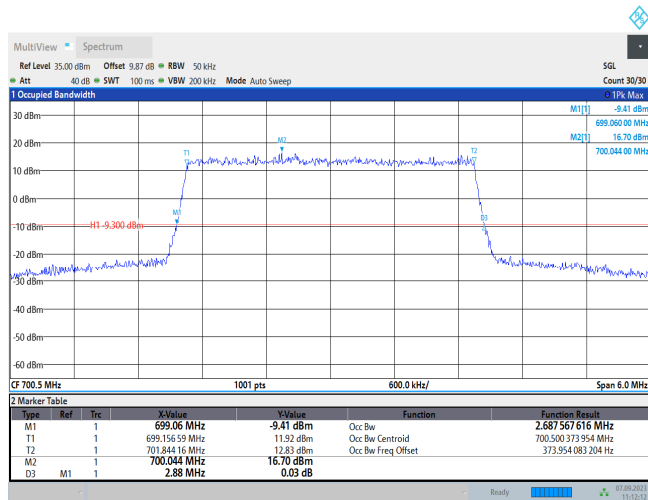
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Band12-1.4MHz-64QAM-23173-6RB#0



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



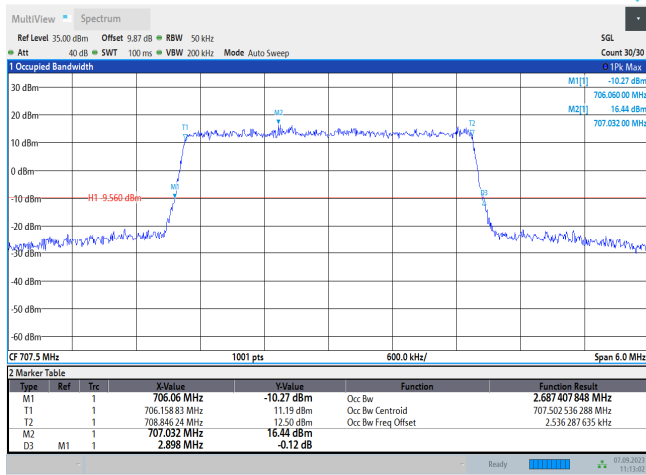
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Band12-3MHz-QPSK-23095-15RB#0



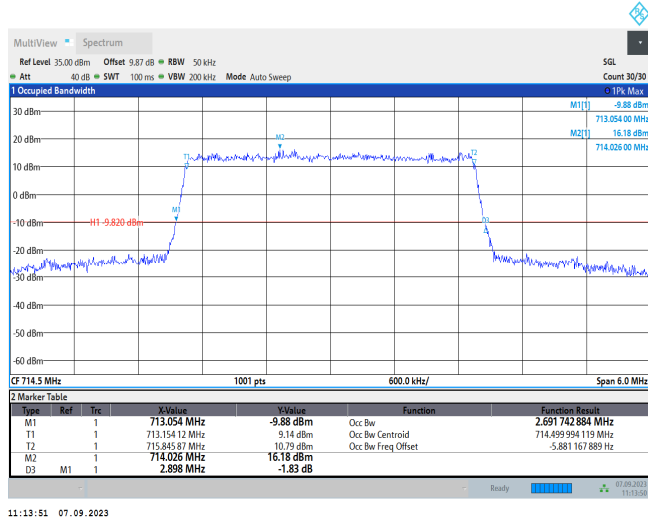
11:13:02 07.09.2023



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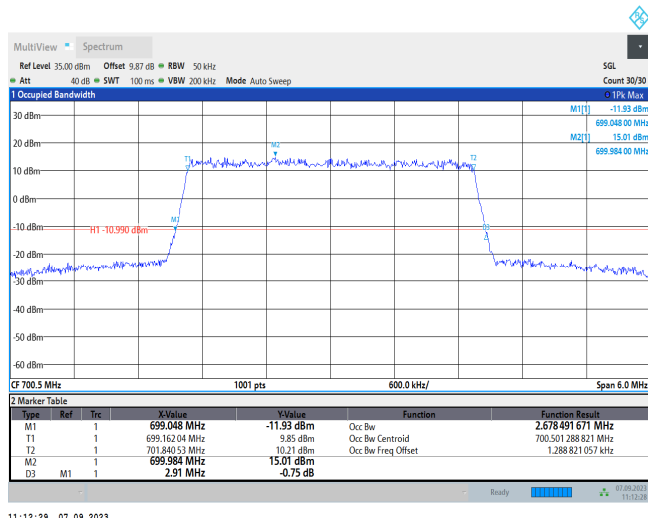
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Band12-3MHz-16QAM-23025-15RB#0



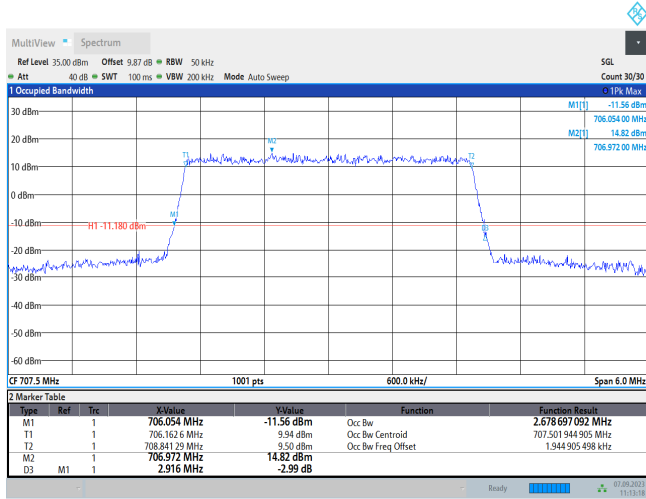
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Band12-3MHz-16QAM-23095-15RB#0



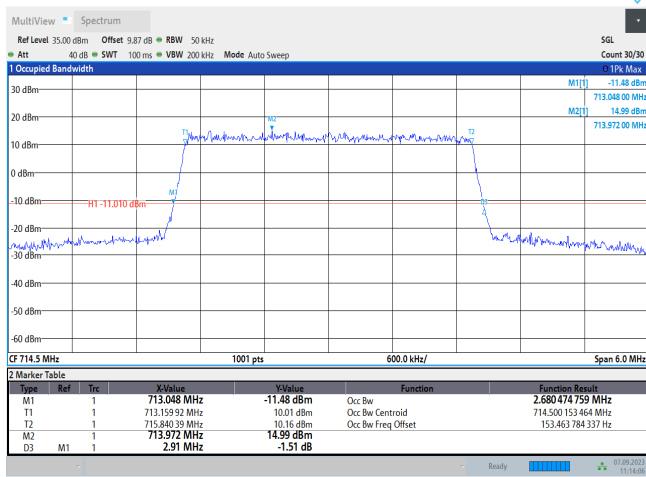
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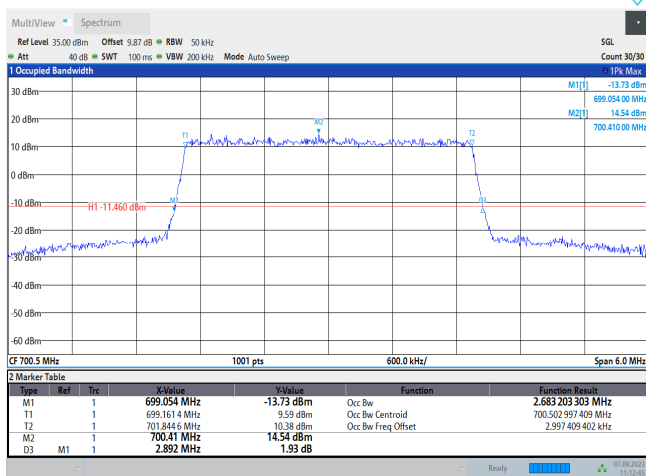
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Band12-3MHz-64QAM-23025-15RB#0



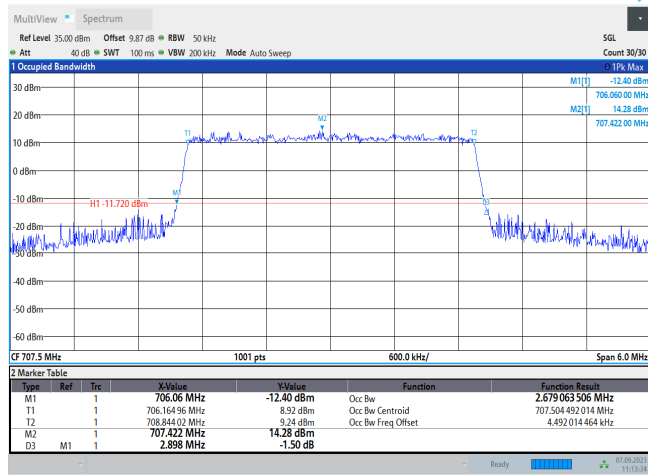
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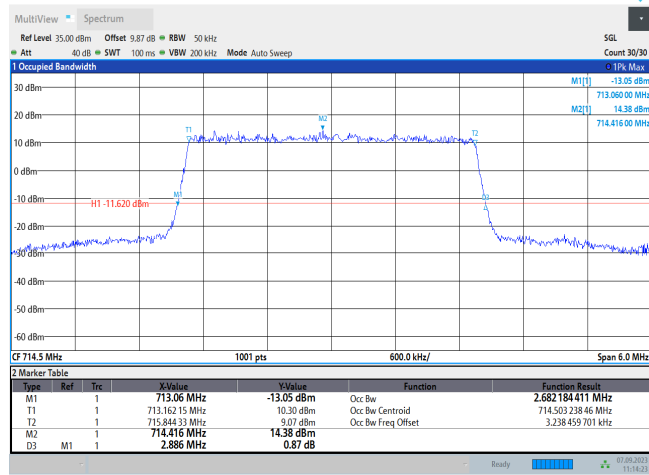
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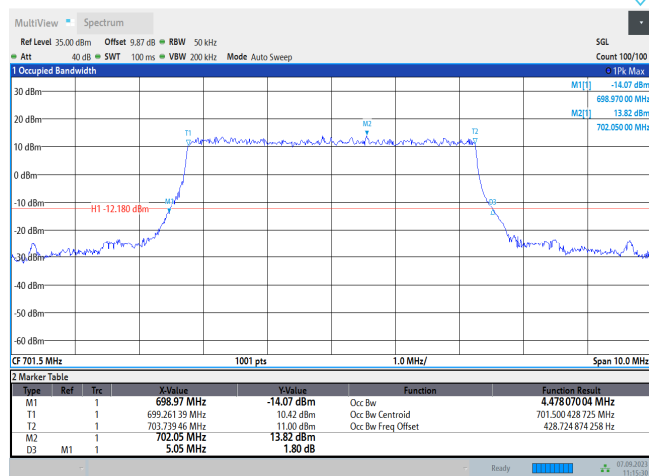
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Band12-3MHz-64QAM-23165-15RB#0



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



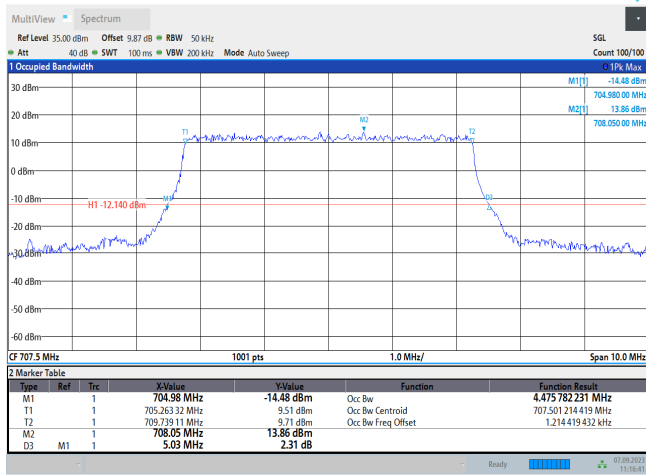
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Band12-5MHz-QPSK-23095-25RB#0

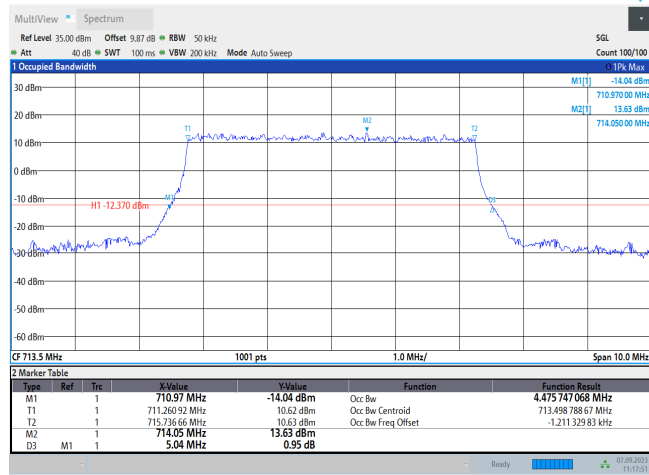


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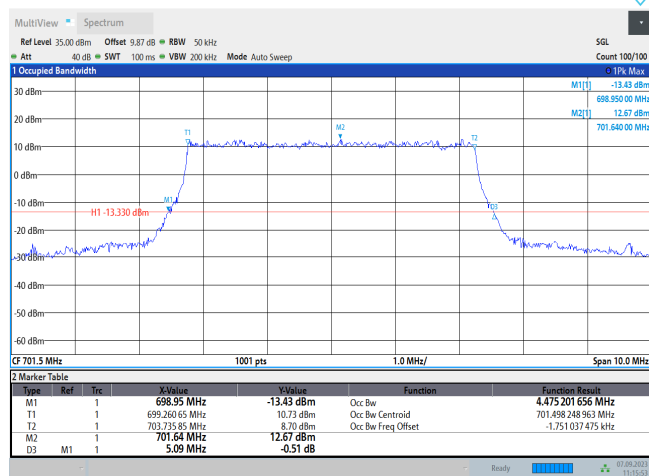
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Band12-5MHz-QPSK-23155-25RB#0



11:17:52 07.09.2023

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



11:15:54 07.09.2023



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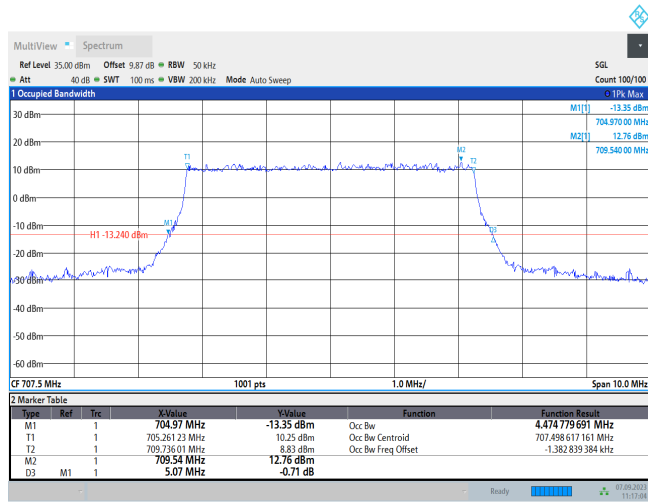
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Band12-5MHz-16QAM-23095-25RB#0



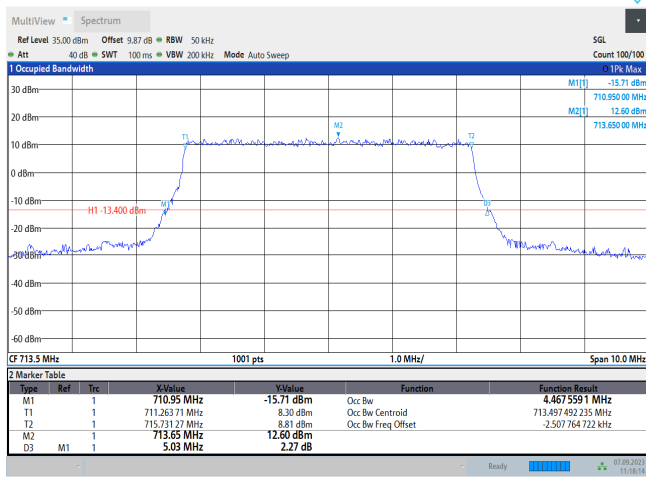
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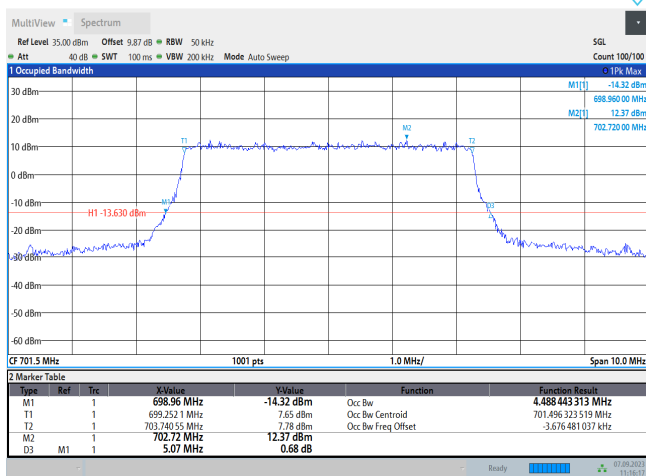
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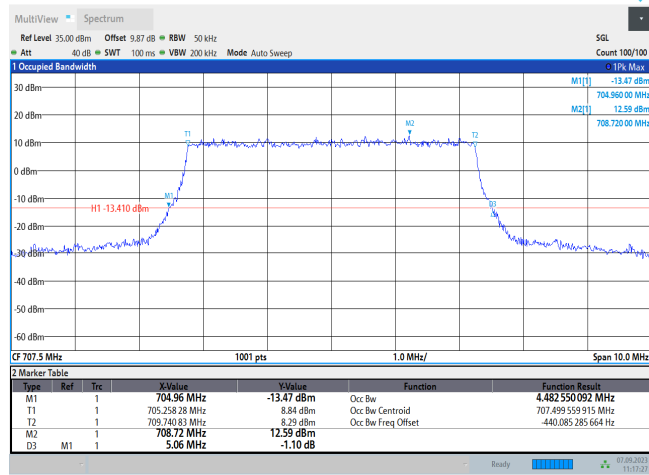


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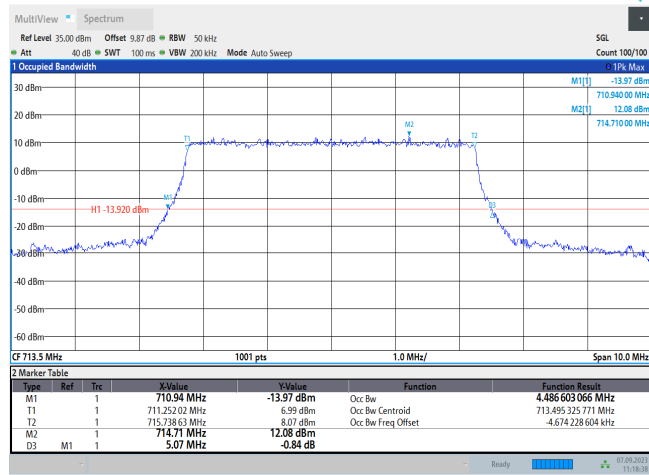
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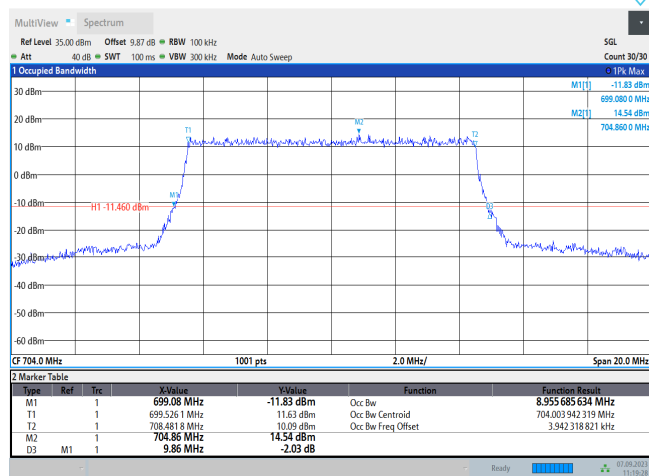
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Band12-10MHz-QPSK-23060-50RB#0



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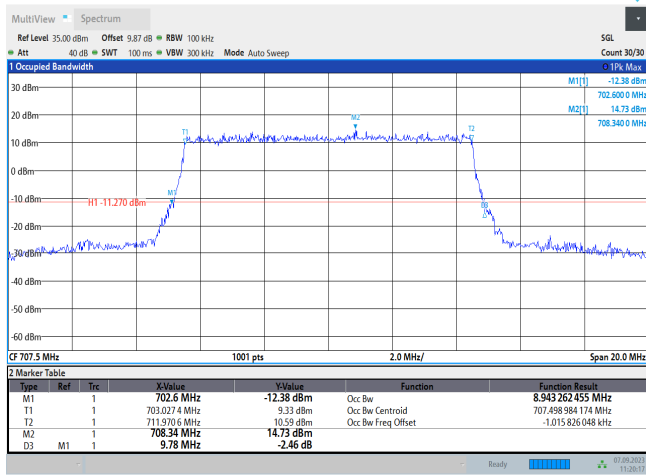


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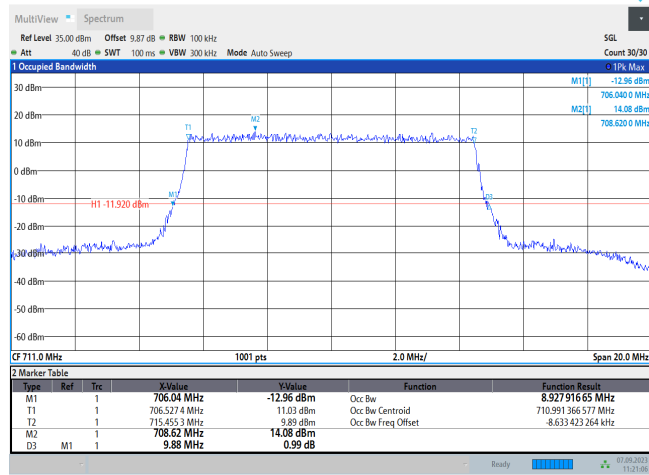
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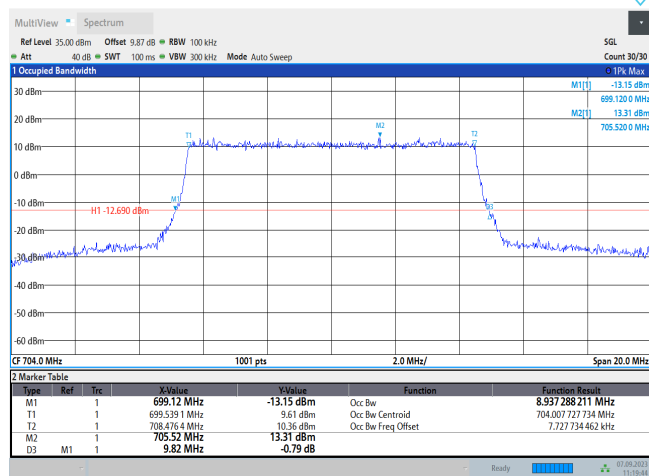
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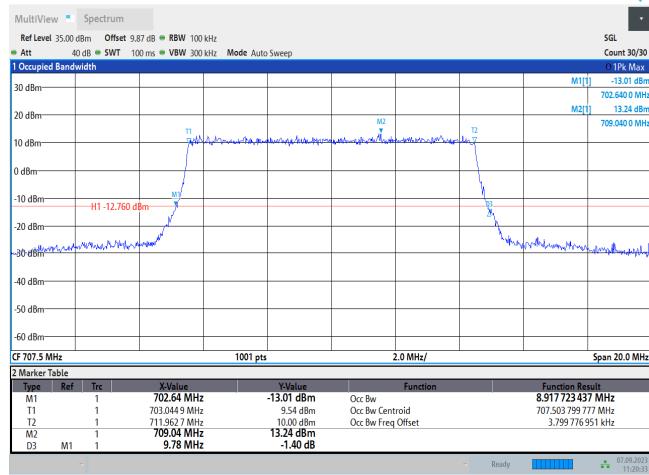
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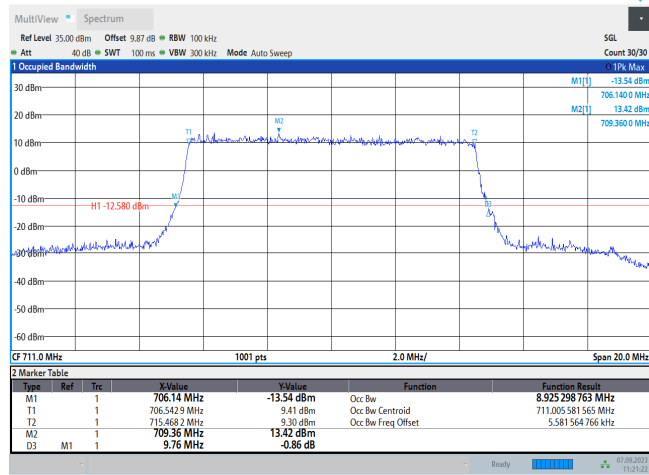
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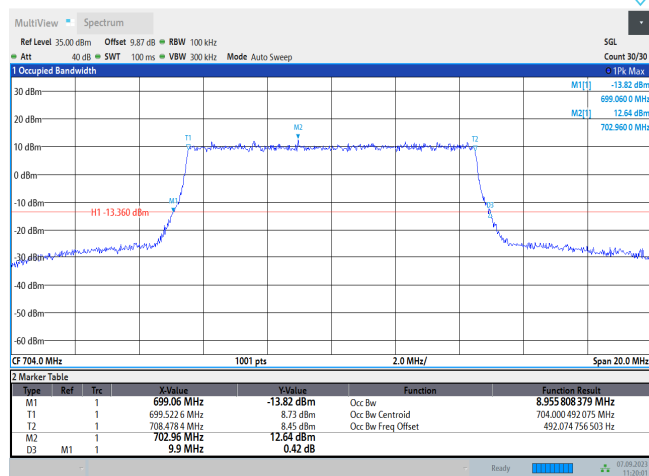
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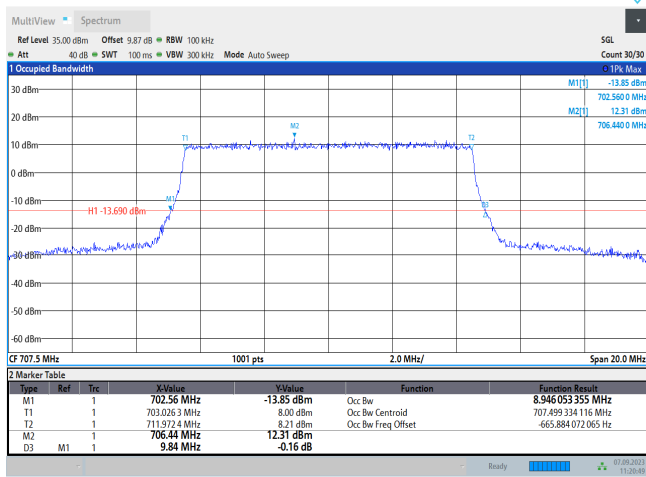
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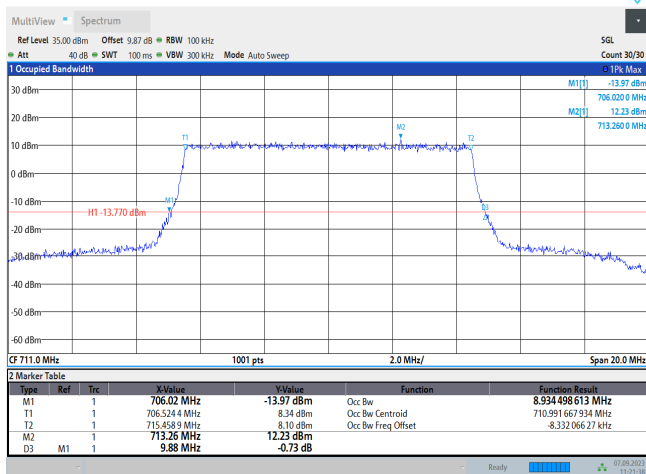
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Band12-10MHz-64QAM-23095-50RB#0



11:20:50 07.09.2023

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



11:21:39 07.09.2023



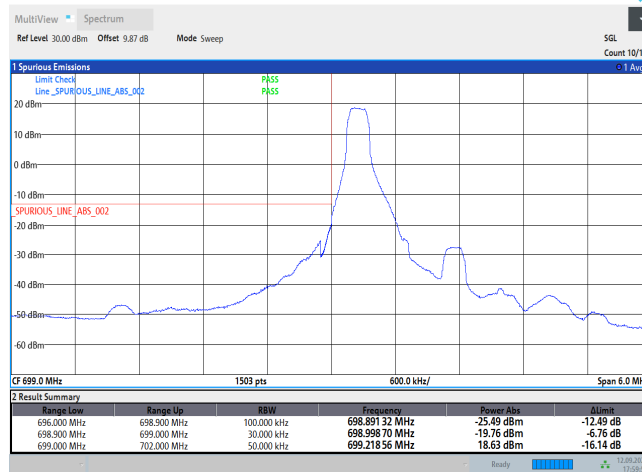
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Band Edge

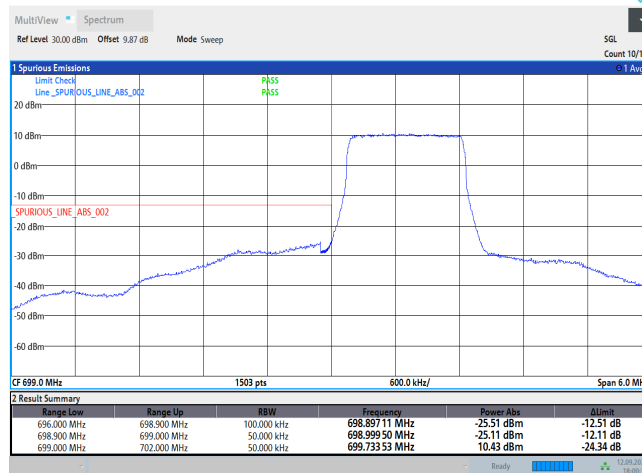
Test Graphs

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



17:59:56 12.09.2023

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

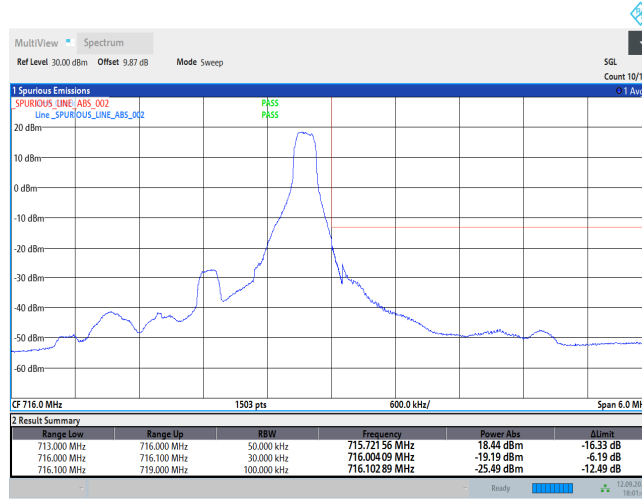


18:00:30 12.09.2023



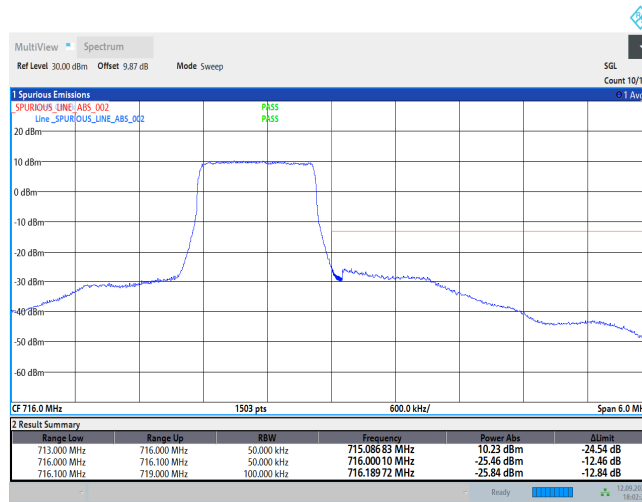
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Band12-1.4MHz-QPSK-23173-1RB#5



18:01:48 12.09.2023

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



18:02:23 12.09.2023



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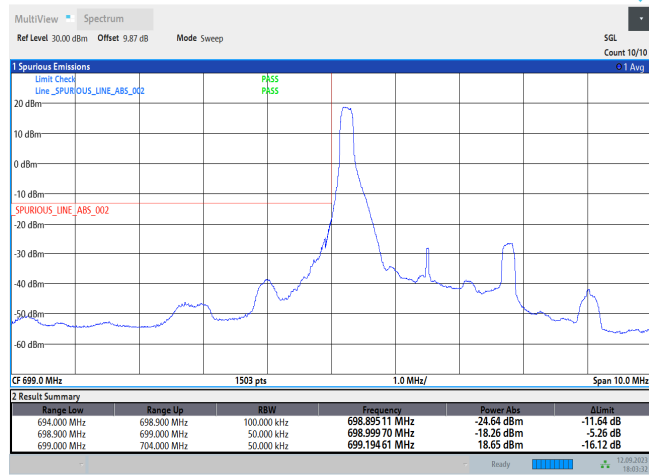
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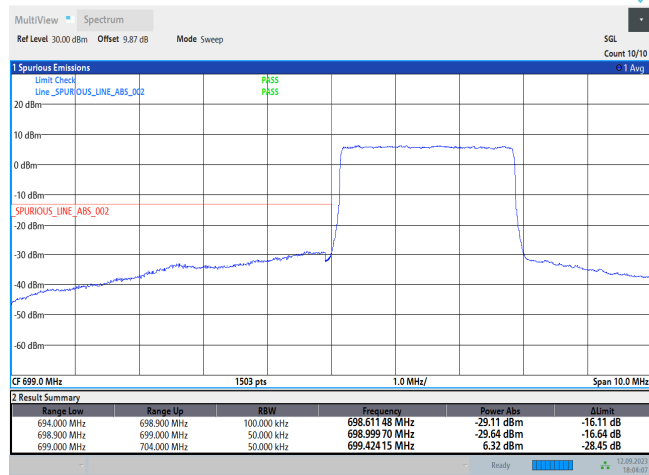
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Band12-3MHz-QPSK-23025-1RB#0



18:03:33 12.09.2023

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



18:04:08 12.09.2023



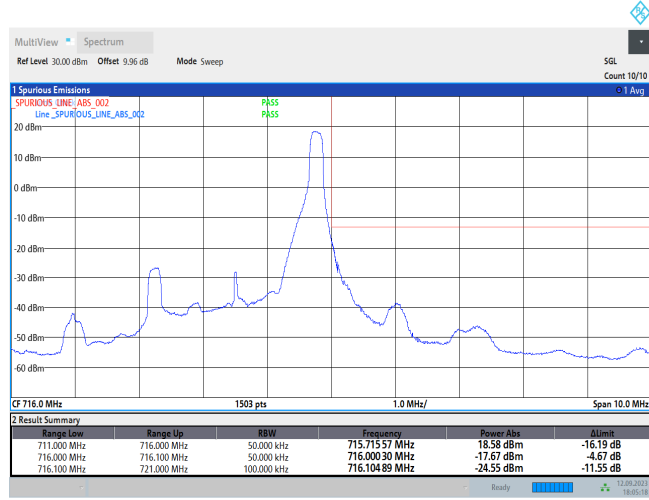
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Band12-3MHz-QPSK-23165-1RB#14



18:05:18 12.09.2023

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



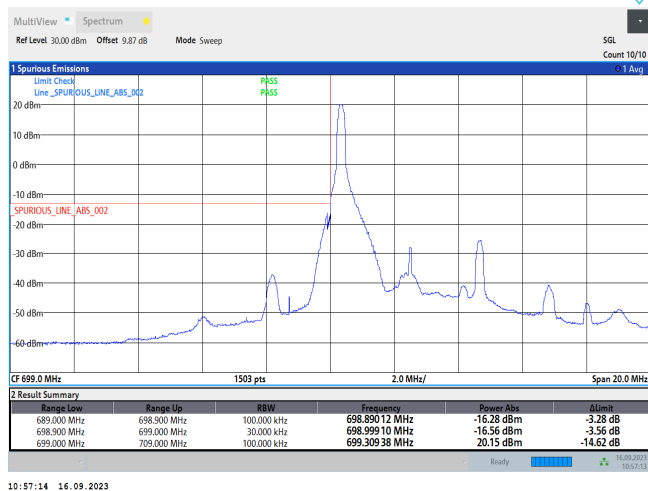
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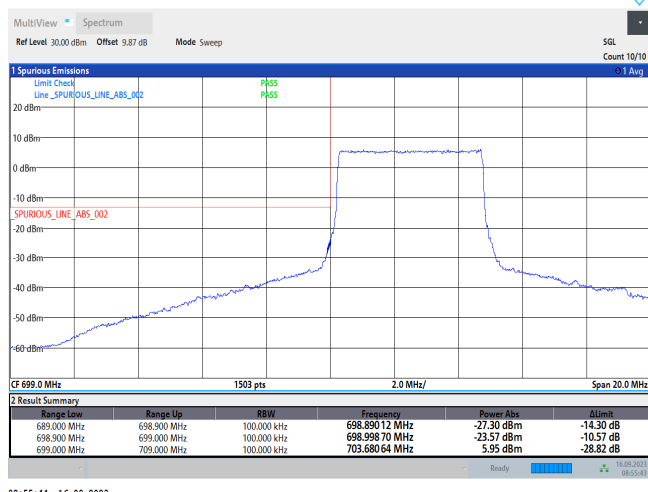
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Band12-5MHz-QPSK-23035-1RB#0



10:57:14 16.09.2023

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



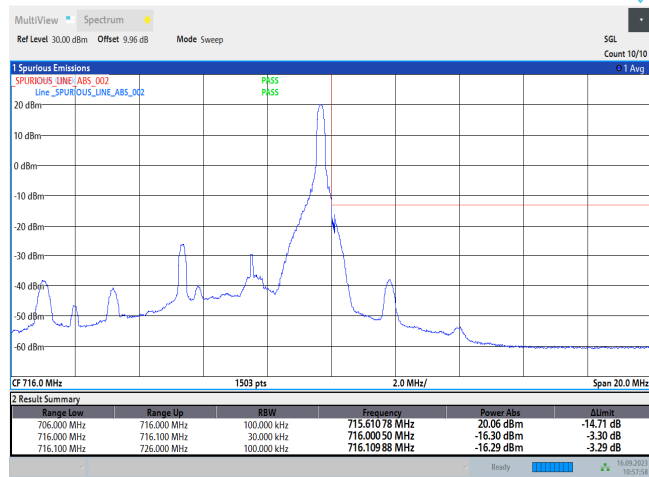
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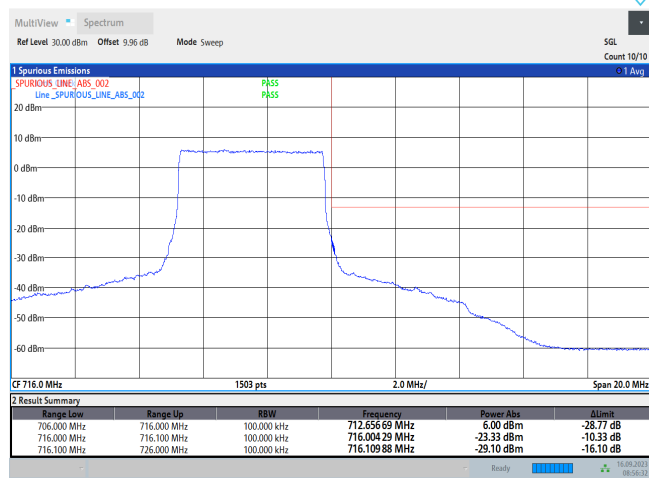
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Band12-5MHz-QPSK-23155-1RB#24



10:57:59 16.09.2023

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



08:56:33 16.09.2023



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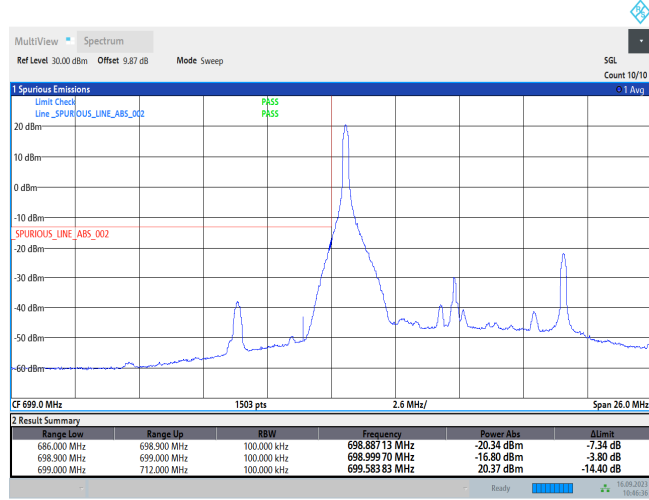
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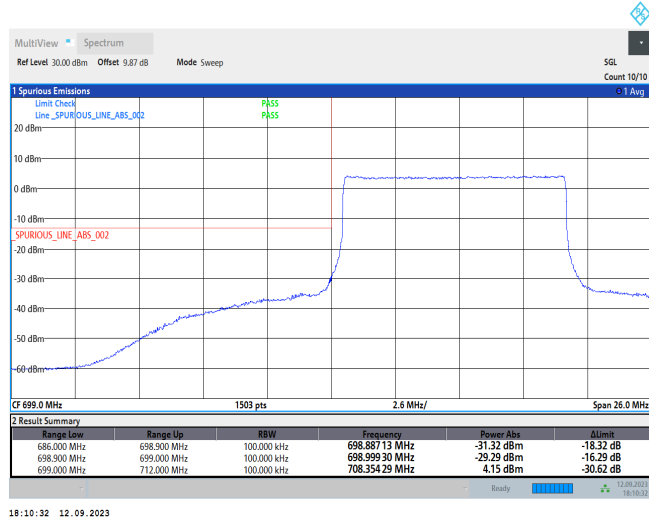
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Band12-10MHz-QPSK-23060-1RB#0

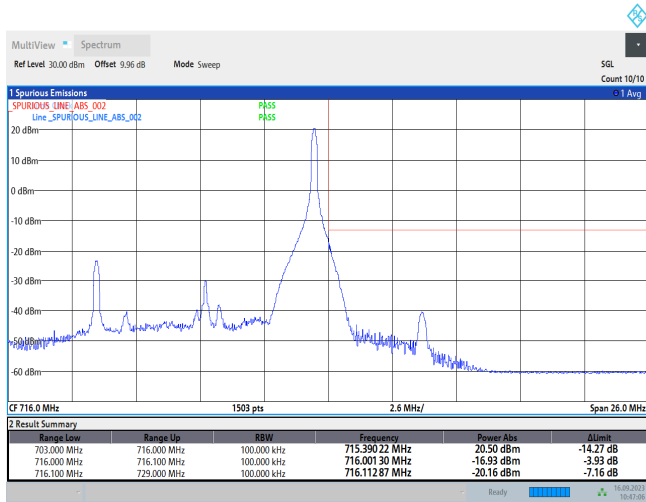


Band12-10MHz-QPSK-23060-50RB#0



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



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



18:13:46 12.09.2023



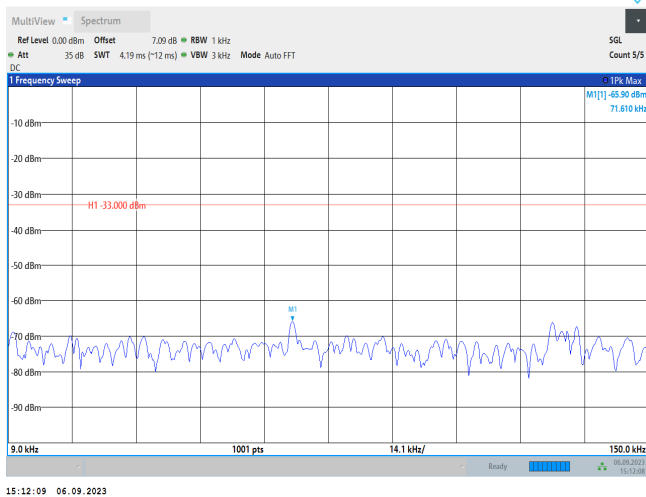
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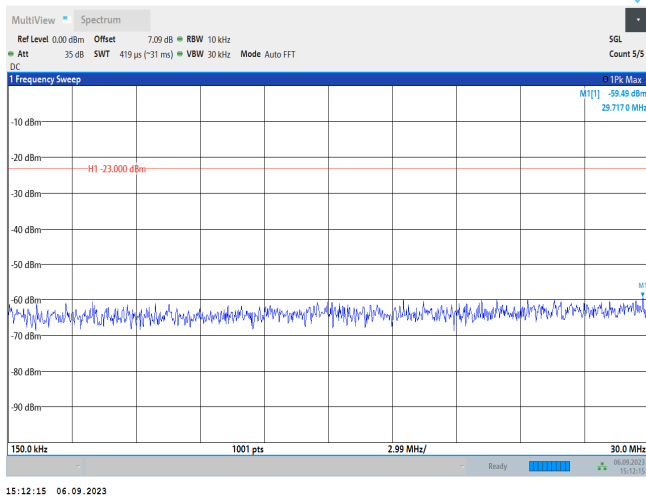
Conducted Spurious Emission

Test Graphs

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



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

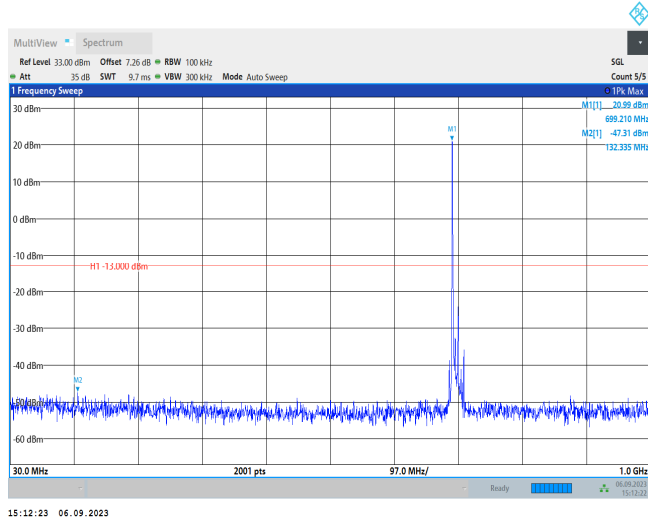


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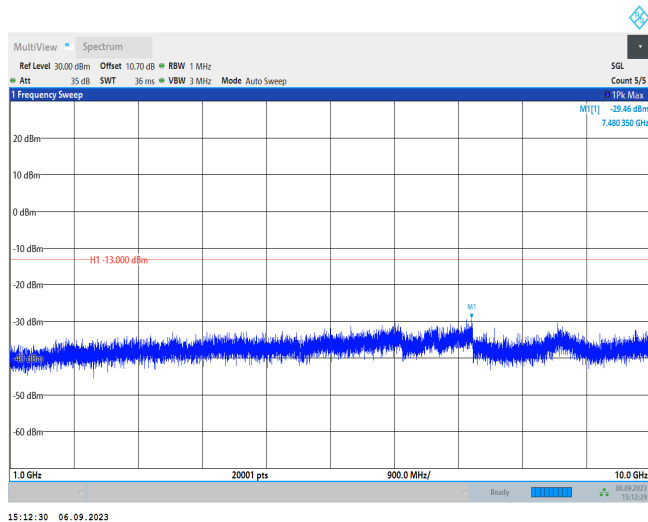
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



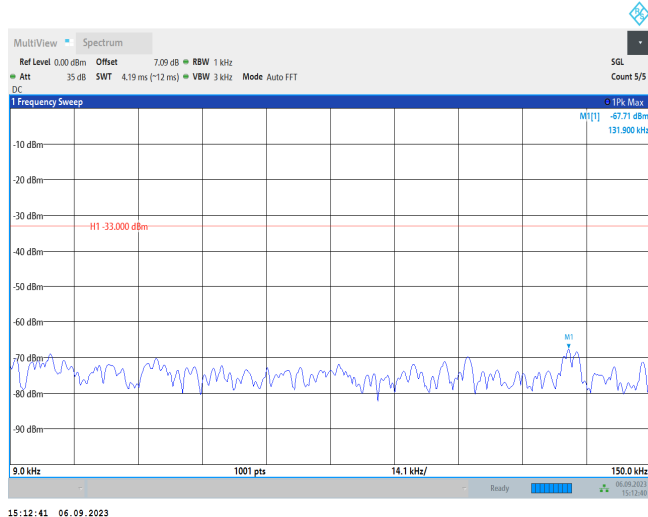
Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



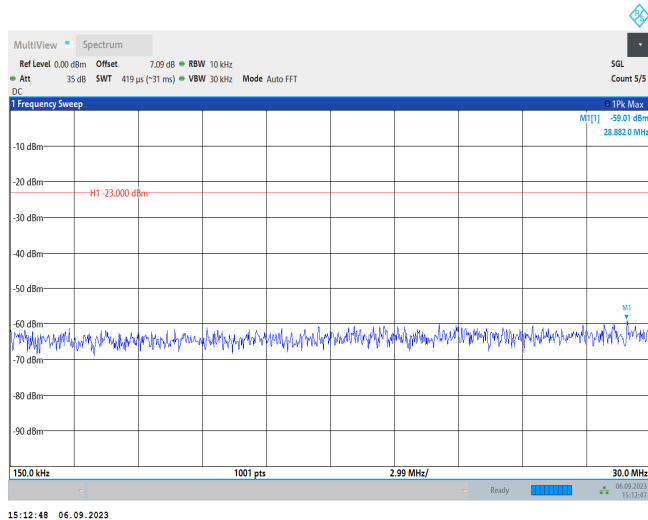
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



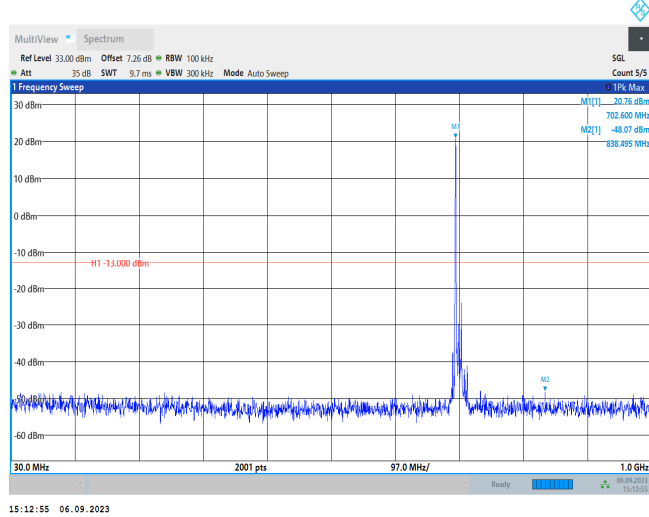
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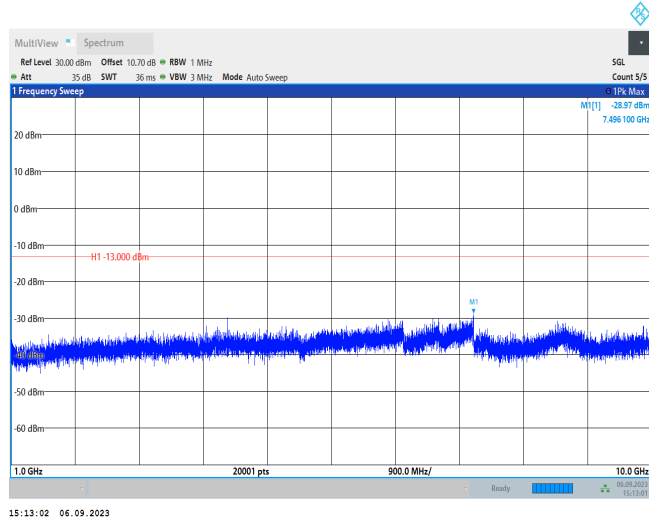
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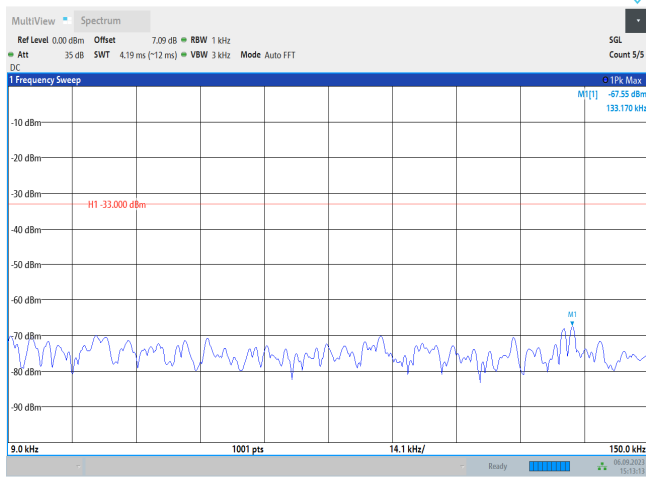


Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz

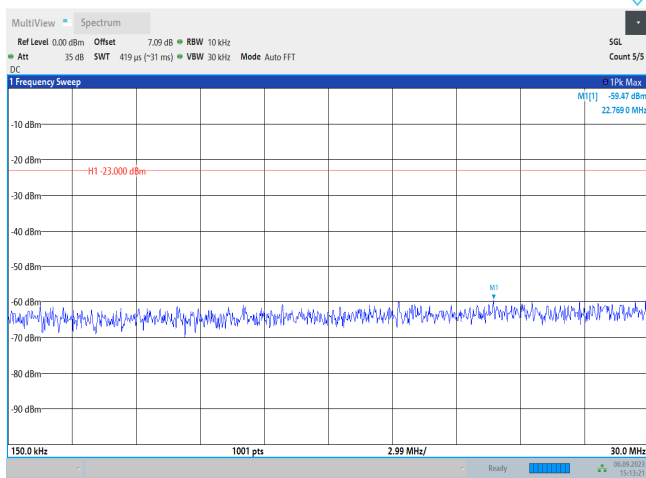


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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



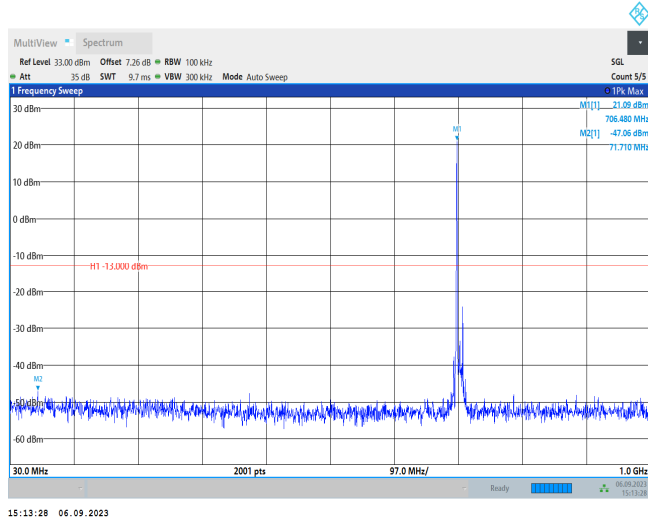
Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



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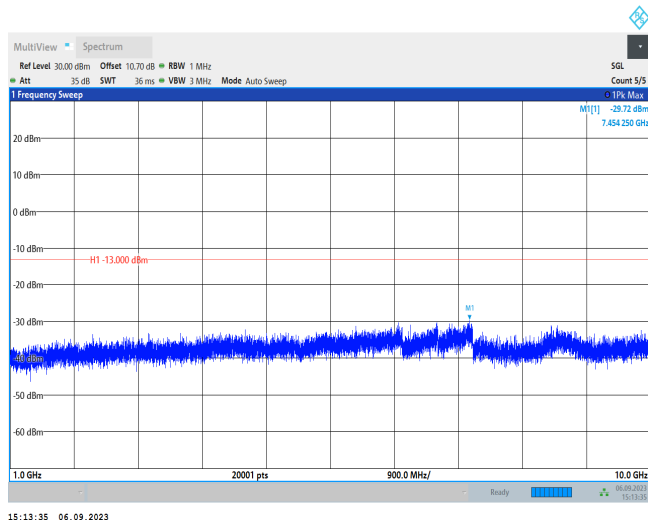
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



15:13:28 06.09.2023

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



15:13:35 06.09.2023



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 I/FE Unit D, Building 1, Kanglong Orange Science Park, No.137, Keyuan 3rd Road, Fengong New Town, Xi'an, Shaanxi, China 710086
 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgs.com
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Field Strength of Spurious Radiation

Test Band = LTE_12_10MHz

Test Channel = LCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399	60.75	-47.39	24.90	-57.00	-13.00	44.00	Horizontal
2	2098.5	52.33	-46.87	26.79	-63.01	-13.00	50.01	Horizontal
3	3003.5	47.29	-45.68	28.61	-65.04	-13.00	52.04	Horizontal
4	4384.5	46.34	-43.21	30.04	-62.09	-13.00	49.09	Horizontal
5	7514	43.37	-38.44	36.76	-53.57	-13.00	40.57	Horizontal
6	9897	41.12	-35.30	38.58	-50.86	-13.00	37.86	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399	57.32	-47.39	24.90	-60.43	-13.00	47.43	Vertical
2	2099	54.32	-46.87	26.79	-61.02	-13.00	48.02	Vertical
3	3087.5	47.35	-45.87	28.88	-64.90	-13.00	51.90	Vertical
4	4012	46.46	-43.97	29.75	-63.02	-13.00	50.02	Vertical
5	7422.5	43.41	-38.36	36.75	-53.46	-13.00	40.46	Vertical
6	9884.5	41.33	-35.33	38.48	-50.78	-13.00	37.78	Vertical



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Test Band = LTE_12_10MHz

Test Channel = MCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406	59.95	-47.40	24.95	-57.76	-13.00	44.76	Horizontal
2	2109.5	53.90	-46.88	26.74	-61.50	-13.00	48.50	Horizontal
3	3136.5	47.06	-45.68	28.75	-65.13	-13.00	52.13	Horizontal
4	5158	45.34	-42.57	31.82	-60.67	-13.00	47.67	Horizontal
5	7400.5	43.26	-38.35	36.70	-53.65	-13.00	40.65	Horizontal
6	9889	41.64	-35.32	38.51	-50.43	-13.00	37.43	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406	57.78	-47.40	24.95	-59.93	-13.00	46.93	Vertical
2	2109.5	52.66	-46.88	26.74	-62.74	-13.00	49.74	Vertical
3	3098	47.18	-45.90	28.90	-65.08	-13.00	52.08	Vertical
4	4390	46.11	-43.23	30.06	-62.32	-13.00	49.32	Vertical
5	7481.5	43.28	-38.37	36.86	-53.49	-13.00	40.49	Vertical
6	9911.5	41.32	-35.33	38.61	-50.66	-13.00	37.66	Vertical



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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgs.com.cn
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Test Band = LTE_12_10MHz

Test Channel = HCH

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	62.65	-47.42	25.00	-55.03	-13.00	42.03	Horizontal
2	2120	53.28	-46.90	26.68	-62.20	-13.00	49.20	Horizontal
3	3125	46.97	-45.75	28.80	-65.24	-13.00	52.24	Horizontal
4	4813.5	45.71	-42.89	30.75	-61.69	-13.00	48.69	Horizontal
5	7420.5	43.35	-38.36	36.74	-53.53	-13.00	40.53	Horizontal
6	9944	41.28	-35.46	38.64	-50.80	-13.00	37.80	Horizontal

Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	59.61	-47.42	25.00	-58.07	-13.00	45.07	Vertical
2	2120	54.48	-46.90	26.68	-61.00	-13.00	48.00	Vertical
3	3069	47.46	-45.83	28.84	-64.79	-13.00	51.79	Vertical
4	4389.5	46.29	-43.23	30.06	-62.14	-13.00	49.14	Vertical
5	6034	44.79	-40.64	33.34	-57.77	-13.00	44.77	Vertical
6	9916.5	41.31	-35.35	38.62	-50.68	-13.00	37.68	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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Wireless Laboratory

t (86-29) 6282 7885 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-10.39	-0.014686	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-9.01	-0.012735	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-8.90	-0.012580	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-8.28	-0.011703	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-7.57	-0.010700	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-11.93	-0.016862	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-9.73	-0.013753	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-7.60	-0.010742	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.36	-0.003336	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-6.52	-0.009216	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-7.90	-0.011166	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-11.10	-0.015689	PASS

---End of Attachment---



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