

Appendix B.4

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	23.89	23.35	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.93	23.39	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.89	23.35	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.97	22.43	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.88	23.34	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.88	23.34	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.88	23.34	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.89	22.35	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.87	23.33	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.84	23.3	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.82	23.28	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.92	22.38	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.04	22.5	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.1	22.56	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.04	22.5	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.92	21.38	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.08	22.54	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.05	22.51	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.96	22.42	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.87	21.33	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.99	22.45	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.96	22.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.96	22.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.87	21.33	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.05	21.51	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.11	21.57	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22.04	21.5	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	20.95	20.41	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.04	21.5	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.11	21.57	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.95	21.41	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.84	20.3	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.06	21.52	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.05	21.51	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.01	21.47	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.81	20.27	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	18.85	18.31	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	19.07	18.53	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	18.97	18.43	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	18.89	18.35	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	22.88	22.34	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	19	18.46	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	18.98	18.44	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	18.84	18.3	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	18.96	18.42	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	19	18.46	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	18.99	18.45	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	18.81	18.27	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.94	23.4	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.94	23.4	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.88	23.34	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.97	22.43	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.87	23.33	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.87	23.33	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.86	23.32	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.87	22.33	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.86	23.32	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.87	23.33	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.87	23.33	34.77	PASS



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Band12	3MHz	QPSK	23165	15RB#0	22.91	22.37	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.05	22.51	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.04	22.5	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.01	22.47	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.94	21.4	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.06	22.52	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.04	22.5	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.98	22.44	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.85	21.31	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.94	22.4	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23	22.46	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.96	22.42	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.9	21.36	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.05	21.51	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.1	21.56	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.07	21.53	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.96	20.42	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.04	21.5	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.05	21.51	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.95	21.41	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.86	20.32	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.97	21.43	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.05	21.51	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.01	21.47	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.9	20.36	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	19.04	18.5	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	19.05	18.51	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	19.03	18.49	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	19	18.46	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	18.63	18.09	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	18.97	18.43	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	19.04	18.5	34.77	PASS



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Band12	3MHz	256QAM	23095	15RB#0	18.91	18.37	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	18.78	18.24	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#8	18.97	18.43	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	19.02	18.48	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	18.9	18.36	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.97	23.43	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.94	23.4	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.95	23.41	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.98	22.44	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.85	23.31	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.93	23.39	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.69	23.15	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.86	22.32	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.96	23.42	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.97	23.43	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.77	23.23	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.92	22.38	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.13	22.59	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.08	22.54	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.03	22.49	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.95	21.41	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.11	22.57	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.06	22.52	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.08	22.54	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.83	21.29	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.07	22.53	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.94	22.4	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.01	22.47	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.85	21.31	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.07	21.53	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.18	21.64	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.11	21.57	34.77	PASS



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Band12	5MHz	64QAM	23035	25RB#0	20.93	20.39	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.08	21.54	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.06	21.52	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.08	21.54	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.79	20.25	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.12	21.58	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.08	21.54	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.04	21.5	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.84	20.3	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	19.08	18.54	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	19	18.46	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	19.04	18.5	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	18.97	18.43	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	18.69	18.15	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	18.99	18.45	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	19.02	18.48	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	18.85	18.31	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	18.76	18.22	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	18.94	18.4	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	19.01	18.47	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	18.89	18.35	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.96	23.42	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.9	23.36	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.85	23.31	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.93	22.39	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.92	23.38	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.97	23.43	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.87	23.33	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.83	22.29	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.93	23.39	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.92	23.38	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.85	23.31	34.77	PASS



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Band12	10MHz	QPSK	23130	50RB#0	23	22.46	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.11	22.57	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.06	22.52	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.03	22.49	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.93	21.39	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23	22.46	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.05	22.51	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.99	22.45	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.8	21.26	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.02	22.48	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.06	22.52	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.98	22.44	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.95	21.41	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.14	21.6	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.1	21.56	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.06	21.52	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.87	20.33	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.11	21.57	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.08	21.54	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.06	21.52	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.78	20.24	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.11	21.57	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.1	21.56	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.03	21.49	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.91	20.37	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	19.09	18.55	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	19	18.46	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	19	18.46	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	18.94	18.4	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	18.69	18.15	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	18.99	18.45	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	19.01	18.47	34.77	PASS



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Report No.: SEWM2210000205RG01

Rev.: 01

Page: 8 of 65

Band12	10MHz	256QAM	23095	50RB#0	18.82	18.28	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	18.74	18.2	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	19	18.46	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	19.07	18.53	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	18.97	18.43	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

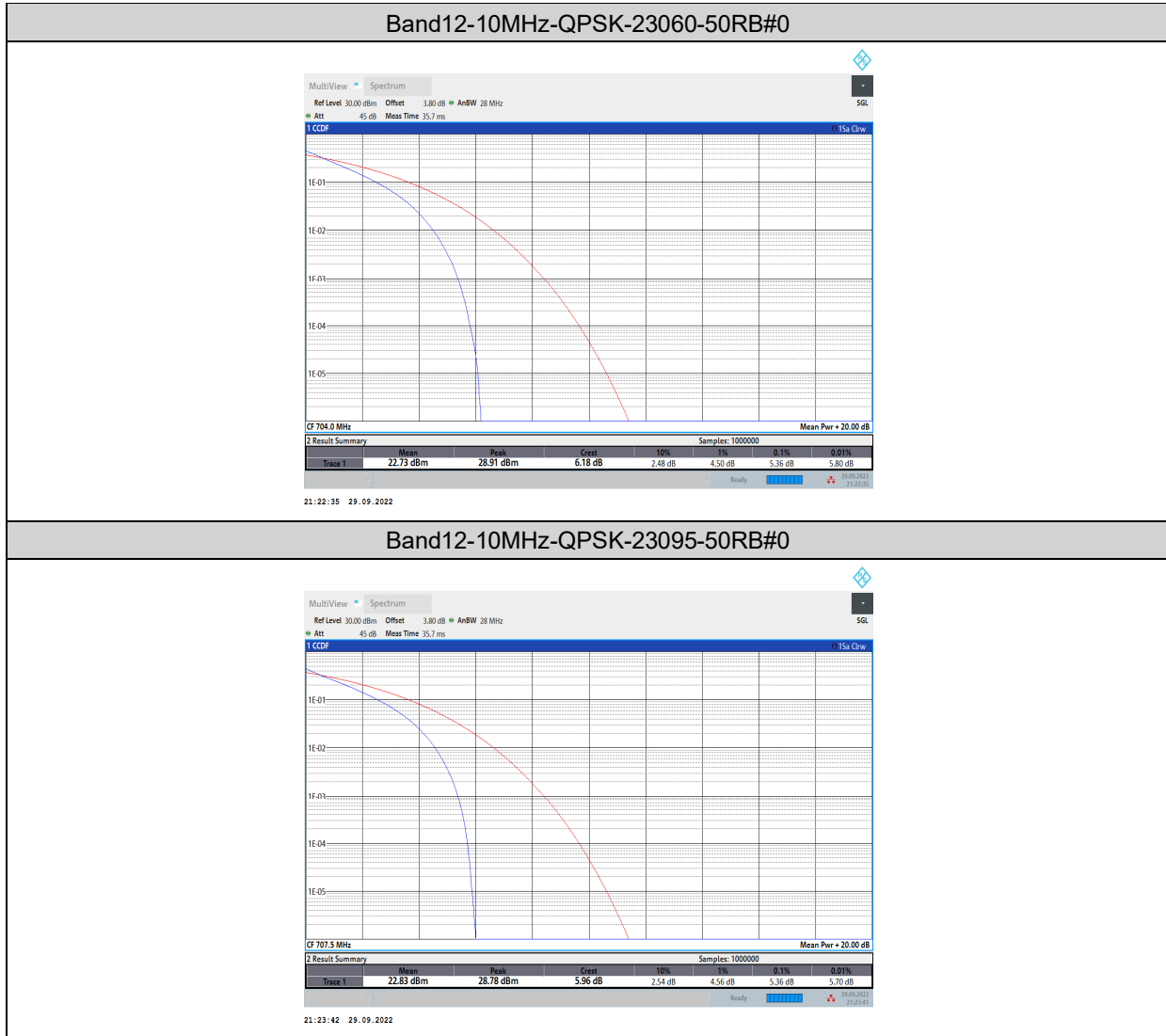
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.26	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.12	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.22	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.06	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.40	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.44	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.38	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.54	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.60	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.48	13	PASS



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Test Graphs

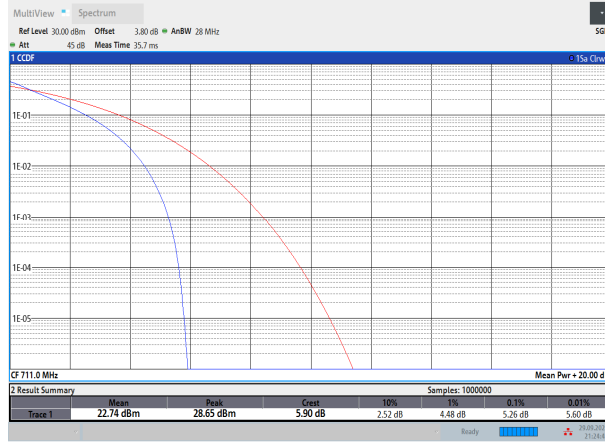


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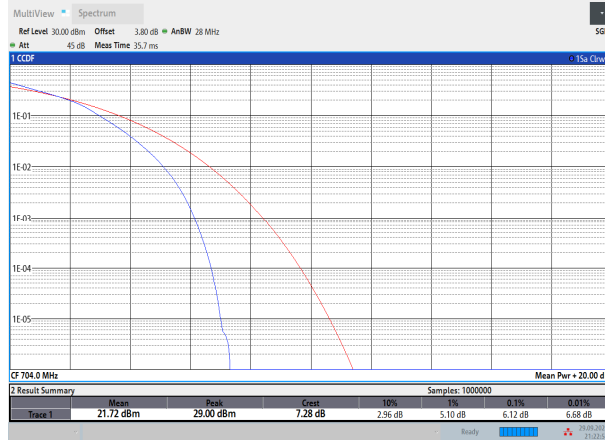
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Band12-10MHz-QPSK-23130-50RB#0



21:24:49 29.09.2022

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



21:22:52 29.09.2022

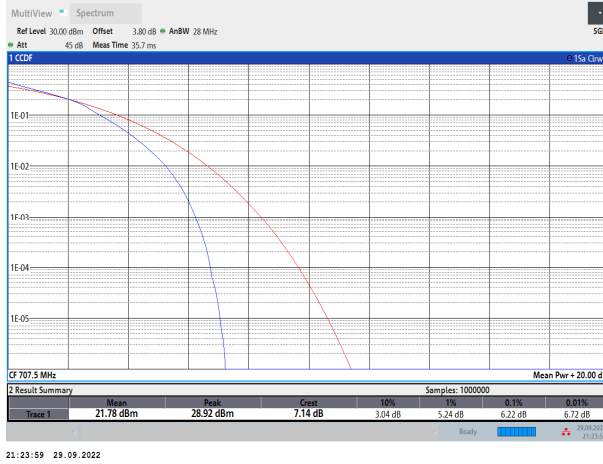


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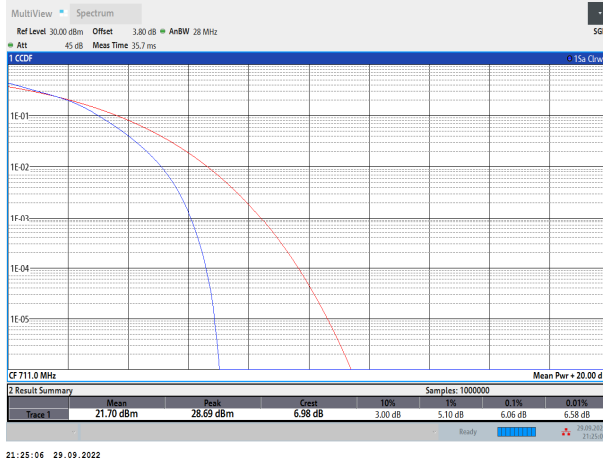
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Band12-10MHz-16QAM-23095-50RB#0



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

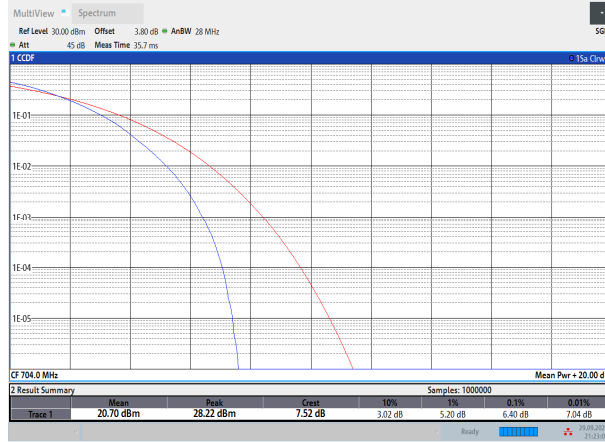


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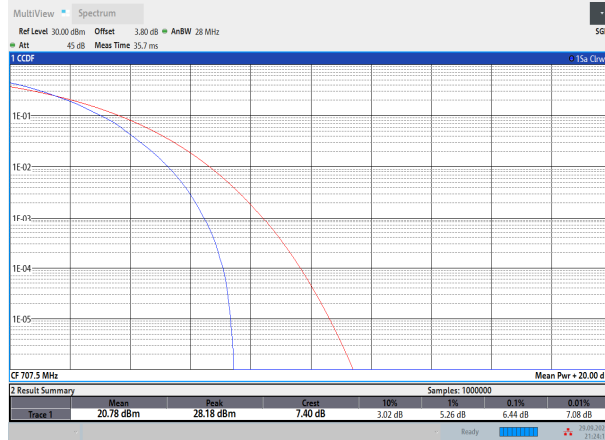
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Band12-10MHz-64QAM-23060-50RB#0



21:23:08 29.09.2022

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



21:24:16 29.09.2022

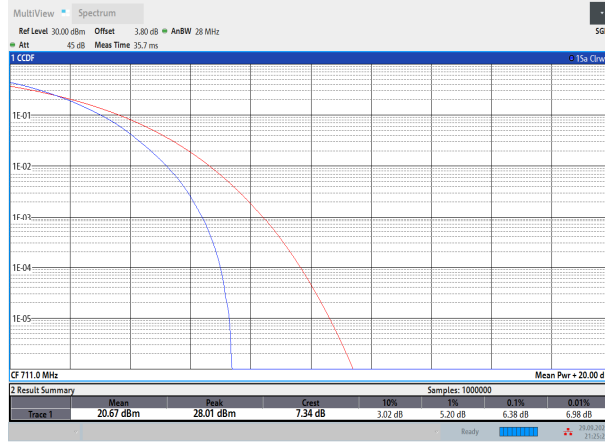


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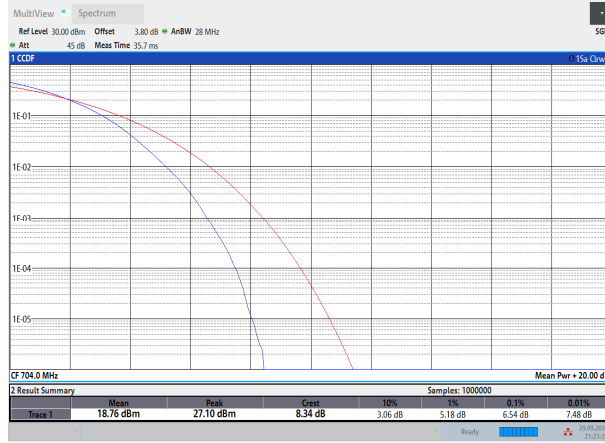
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Band12-10MHz-64QAM-23130-50RB#0



21:25:22 29.09.2022

Band12-10MHz-256QAM-23060-50RB#0



21:23:25 29.09.2022

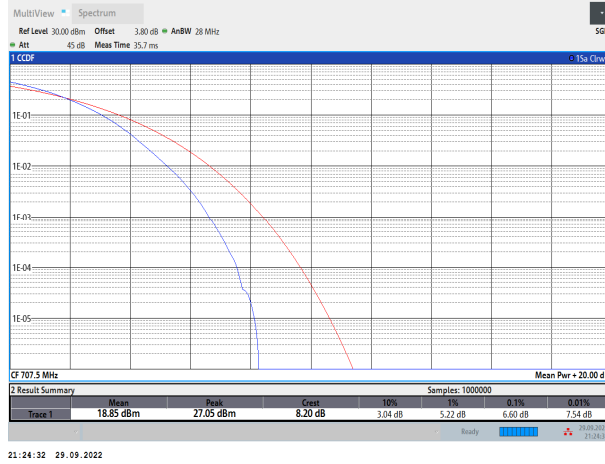


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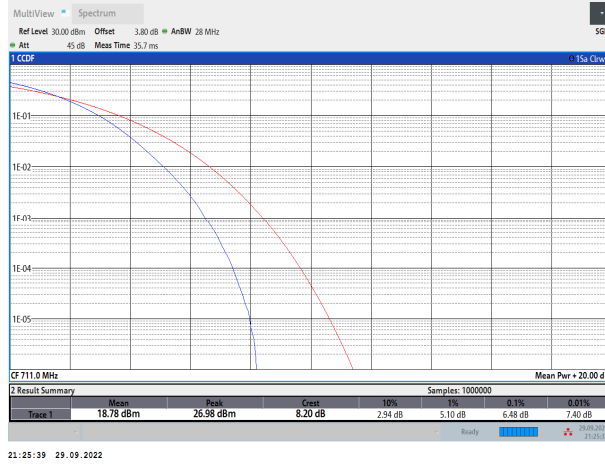
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Band12-10MHz-256QAM-23095-50RB#0



Band12-10MHz-256QAM-23130-50RB#0



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Modulation Characteristics

Test Result

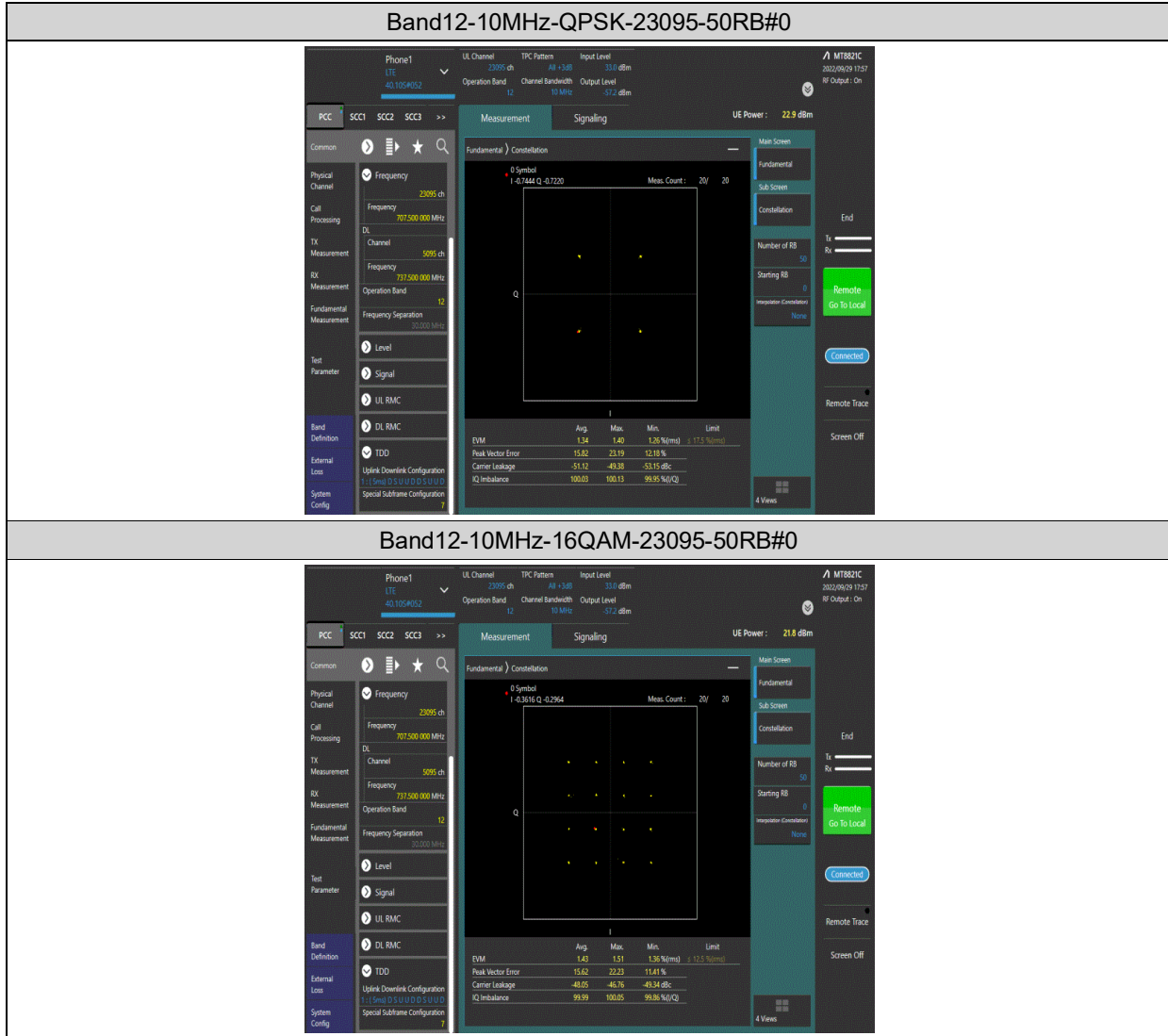
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	256QAM	23095	50RB#0	PASS	PASS



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Test Graphs

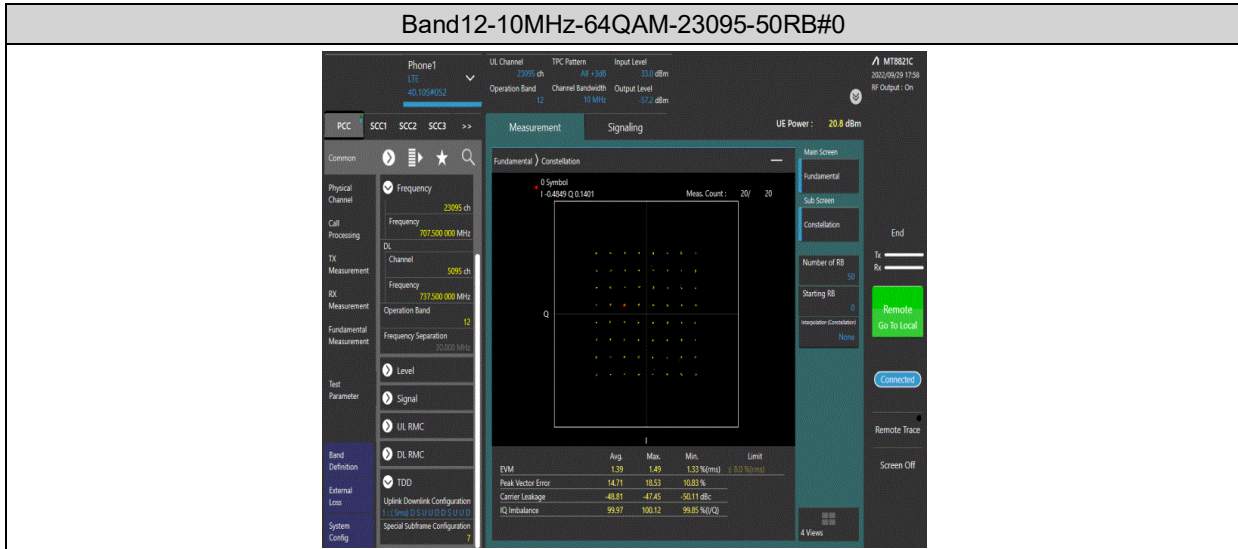


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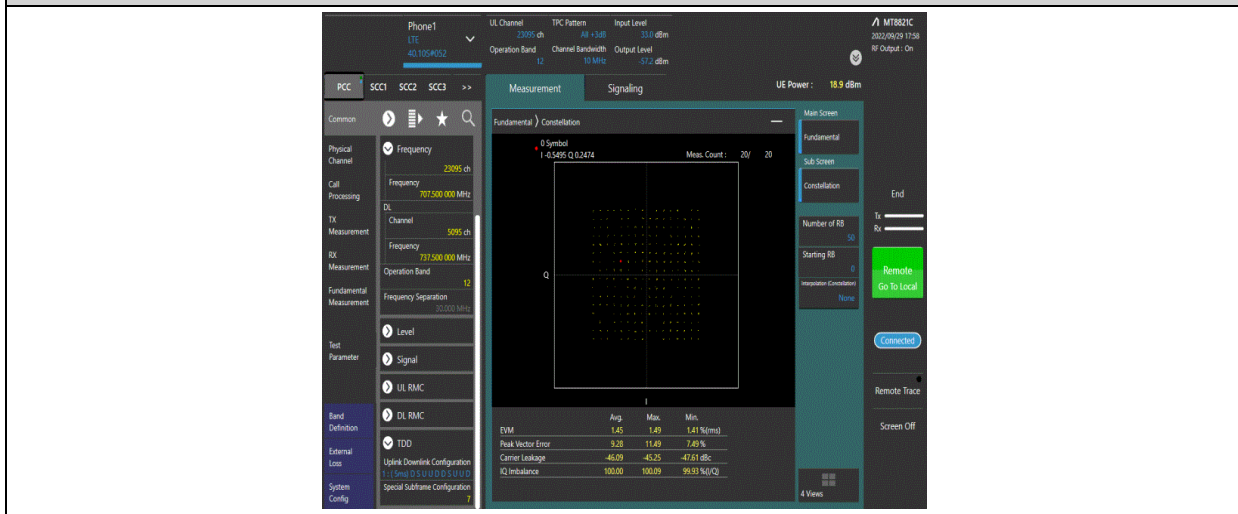
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Band12-10MHz-64QAM-23095-50RB#0



Band12-10MHz-256QAM-23095-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.092	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.097	1.29	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.099	1.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.093	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.096	1.32	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.097	1.30	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	1.087	1.28	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.694	2.96	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	2.94	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.95	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.691	2.93	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.693	2.94	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.691	2.93	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.688	2.92	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.69	2.92	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.692	2.92	PASS
Band12	3MHz	256QAM	23025	15RB#0	2.689	2.93	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.689	2.93	PASS
Band12	3MHz	256QAM	23165	15RB#0	2.69	2.94	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.462	4.85	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.464	4.78	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.452	4.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.46	4.84	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.467	4.84	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.459	4.90	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.464	4.85	PASS



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Rev.: 01

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Band12	5MHz	64QAM	23095	25RB#0	4.471	4.85	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.467	4.85	PASS
Band12	5MHz	256QAM	23035	25RB#0	4.467	4.82	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.466	4.82	PASS
Band12	5MHz	256QAM	23155	25RB#0	4.46	4.81	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.915	9.62	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.944	9.54	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.91	9.52	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.918	9.64	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.925	9.74	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.912	9.62	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.934	9.68	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.945	9.68	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.919	9.60	PASS
Band12	10MHz	256QAM	23060	50RB#0	8.929	9.60	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.937	9.58	PASS
Band12	10MHz	256QAM	23130	50RB#0	8.909	9.58	PASS



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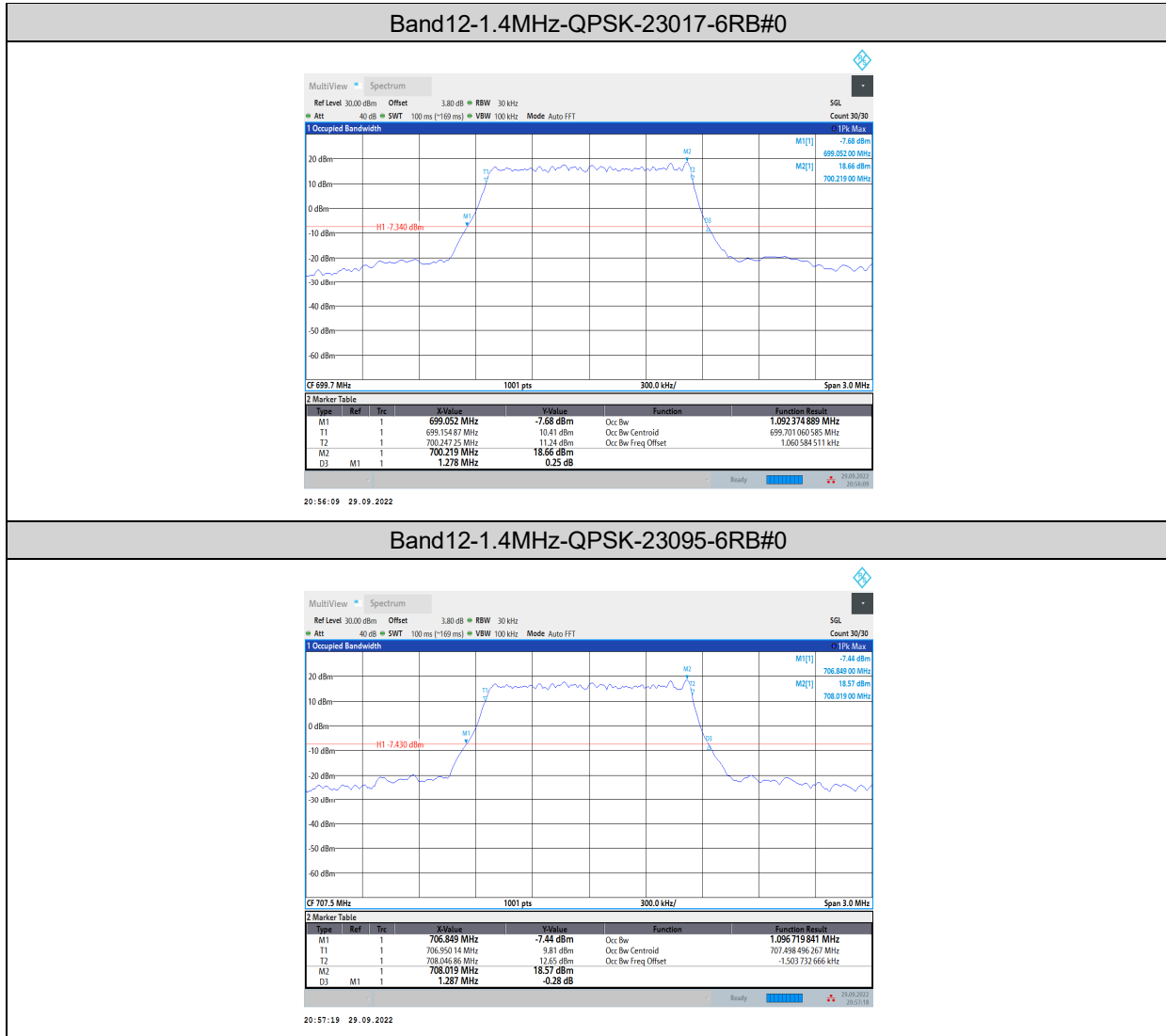
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Test Graphs



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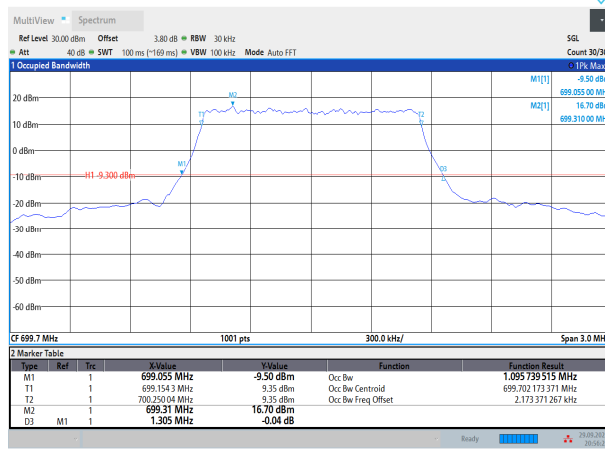
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Band12-1.4MHz-QPSK-23173-6RB#0



20:58:29 29.09.2022

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



20:56:26 29.09.2022

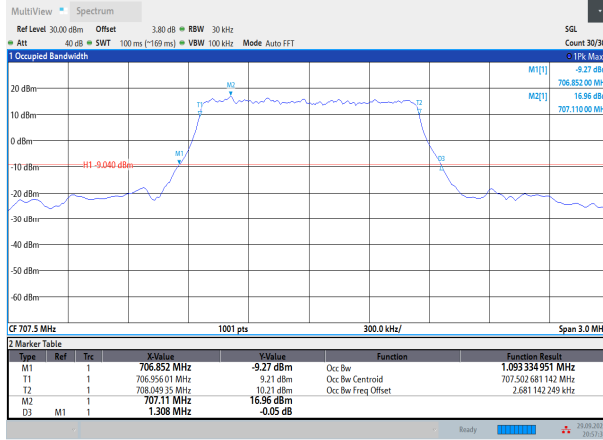


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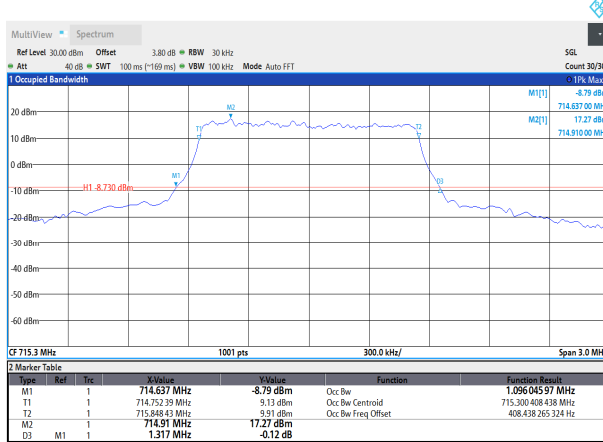
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Band12-1.4MHz-16QAM-23095-6RB#0



20:57:36 29. 09. 2022

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



20:58:47 29. 09. 2022

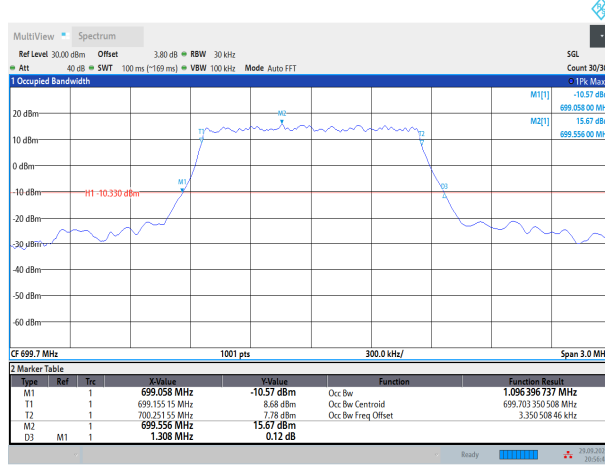


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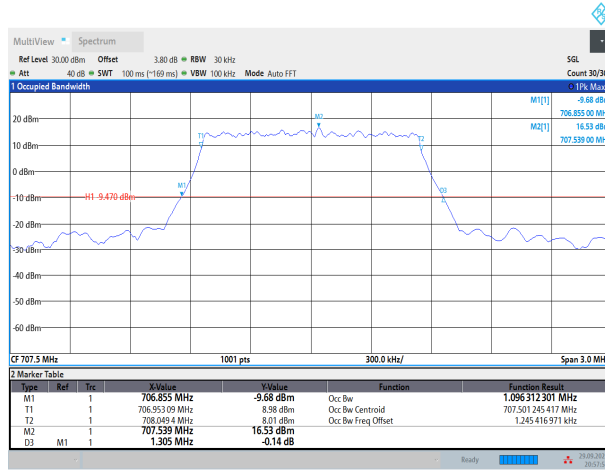
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Band12-1.4MHz-64QAM-23017-6RB#0



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

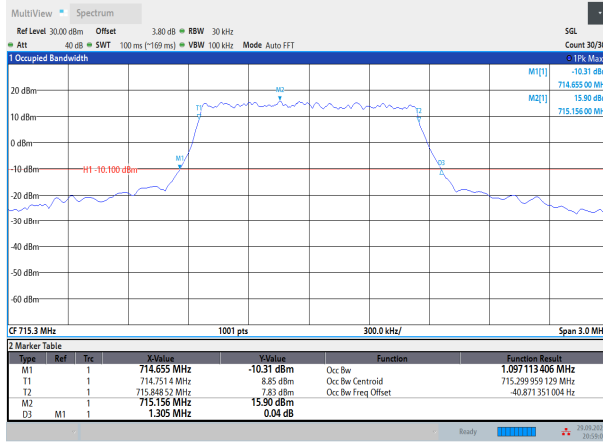


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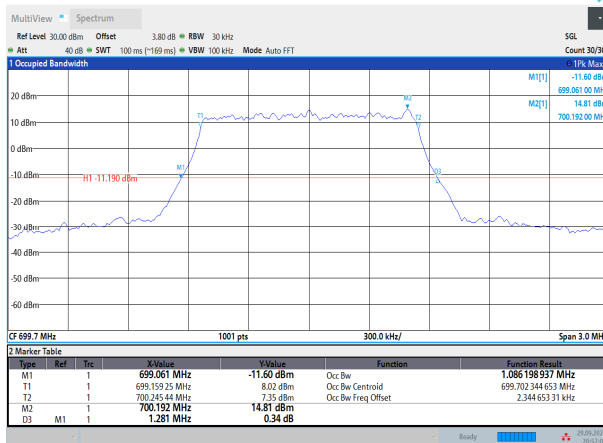
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Band12-1.4MHz-64QAM-23173-6RB#0



20:59:04 29.09.2022

Band12-1.4MHz-256QAM-23017-6RB#0



20:57:01 29.09.2022

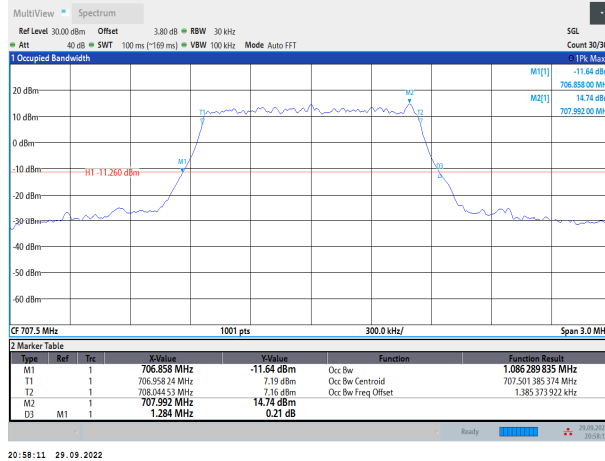


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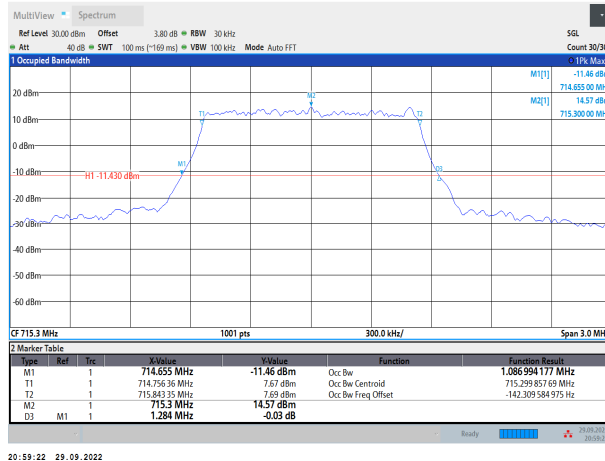
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Band12-1.4MHz-256QAM-23095-6RB#0



Band12-1.4MHz-256QAM-23173-6RB#0

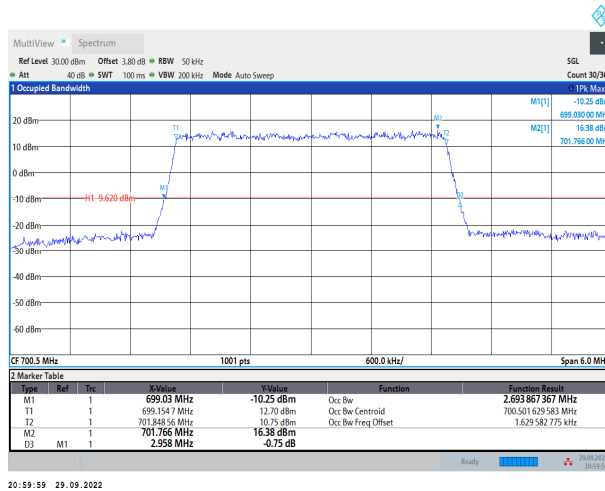


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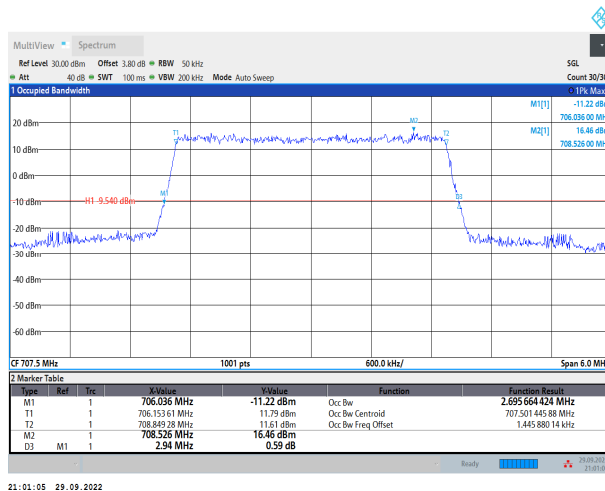
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Band12-3MHz-QPSK-23025-15RB#0



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

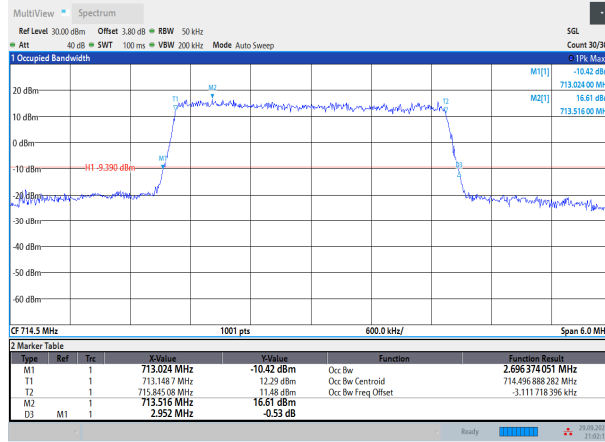


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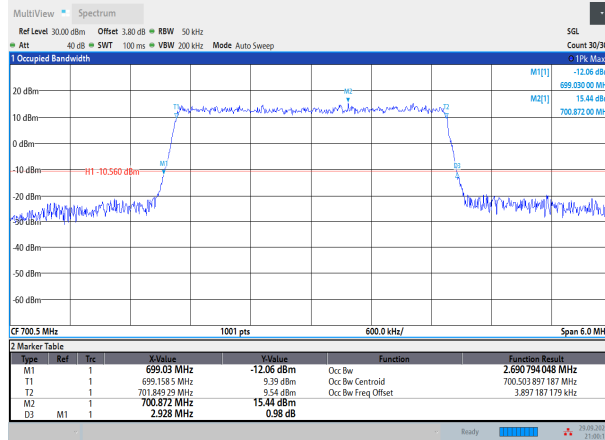
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Band12-3MHz-QPSK-23165-15RB#0



21:02:11 29.09.2022

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



21:00:15 29.09.2022

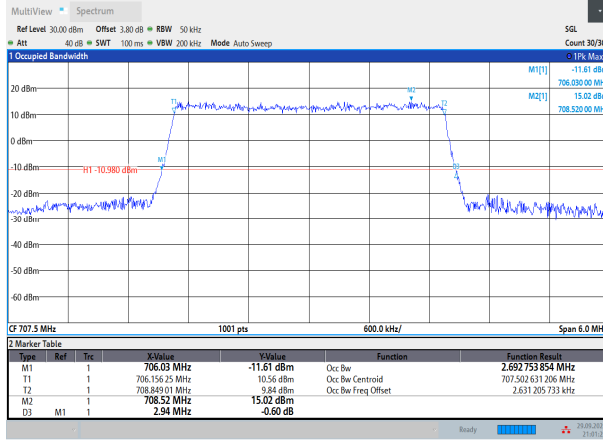


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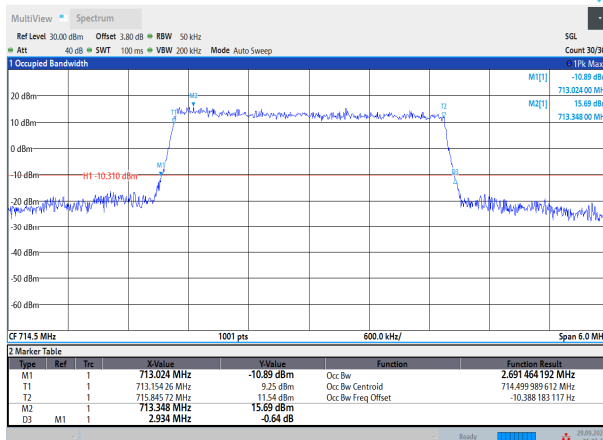
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Band12-3MHz-16QAM-23095-15RB#0



21:01:21 29.09.2022

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



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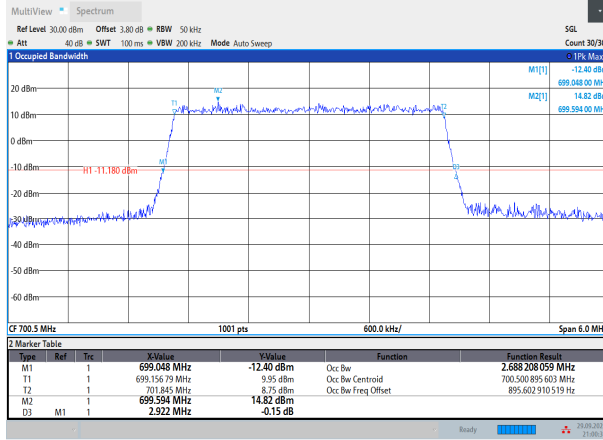


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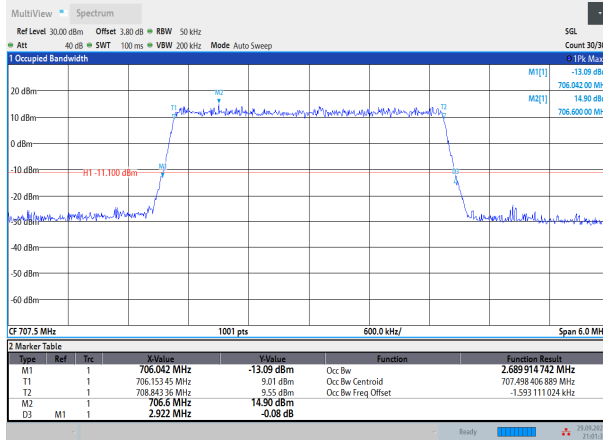
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Band12-3MHz-64QAM-23025-15RB#0



21:00:32 29.09.2022

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



21:01:38 29.09.2022

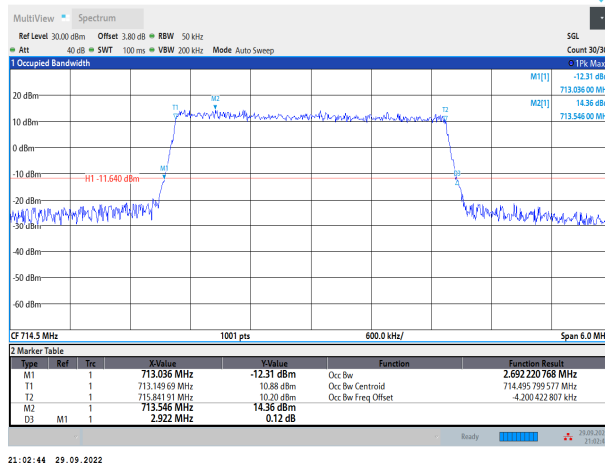


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Band12-3MHz-64QAM-23165-15RB#0



Band12-3MHz-256QAM-23025-15RB#0

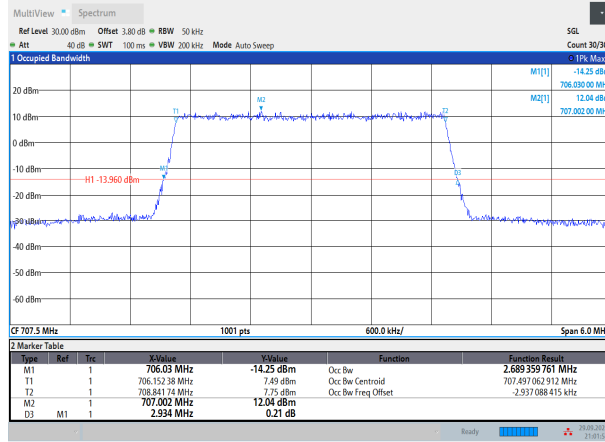


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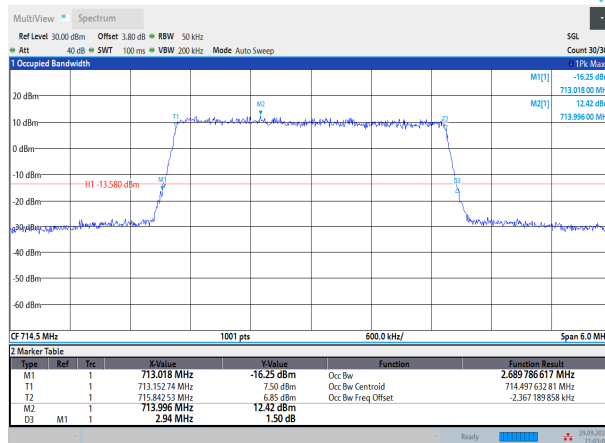
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Band12-3MHz-256QAM-23095-15RB#0



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Band12-3MHz-256QAM-23165-15RB#0



21:03:00 29.09.2022

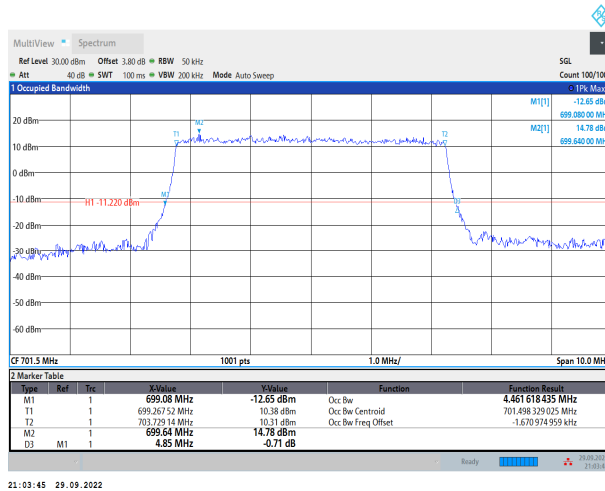


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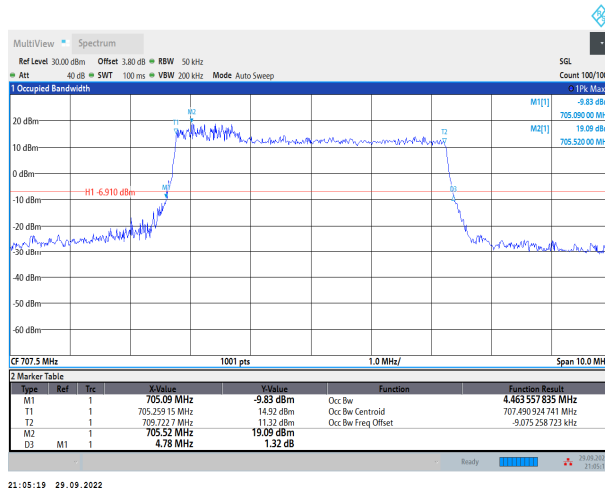
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Band12-5MHz-QPSK-23035-25RB#0



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

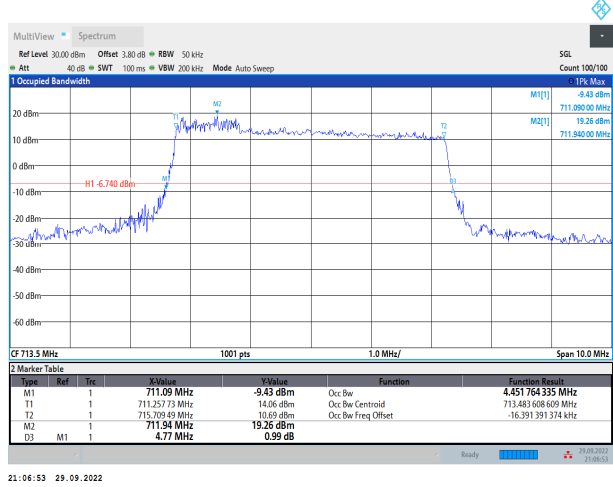


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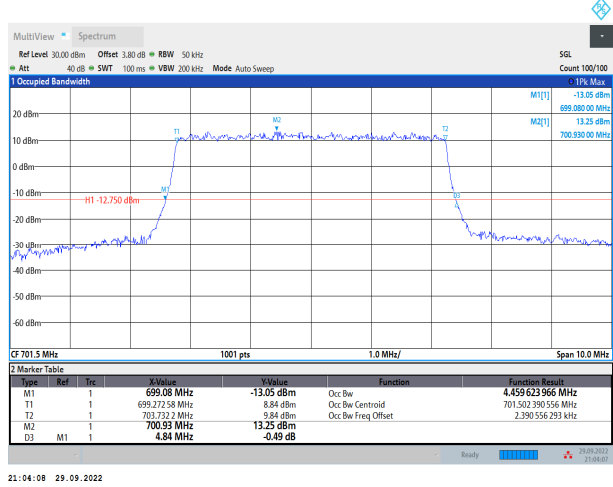
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Band12-5MHz-QPSK-23155-25RB#0



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

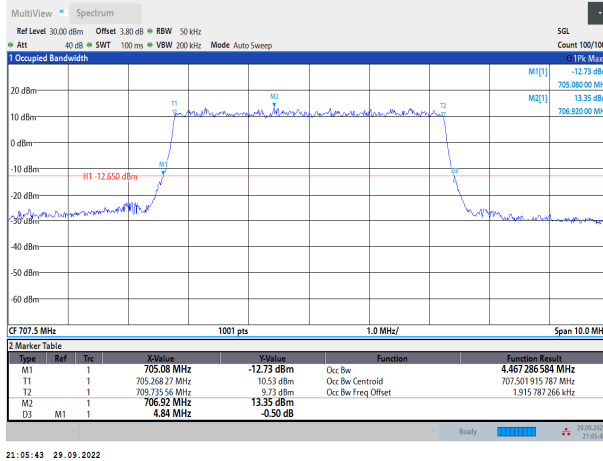


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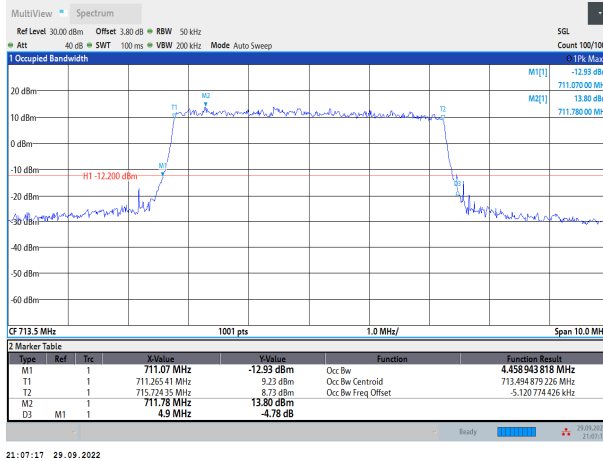
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Band12-5MHz-16QAM-23095-25RB#0



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

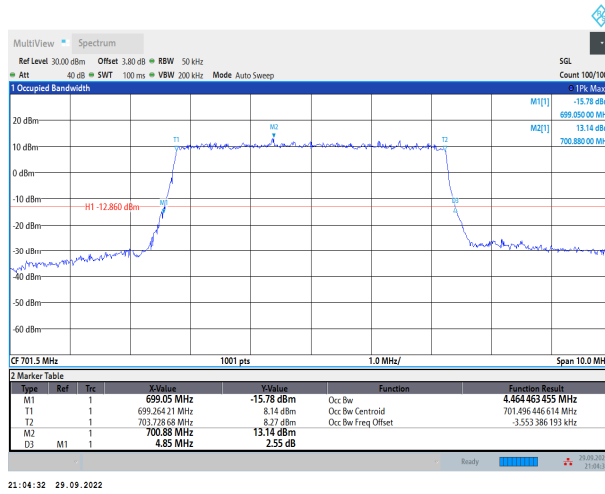


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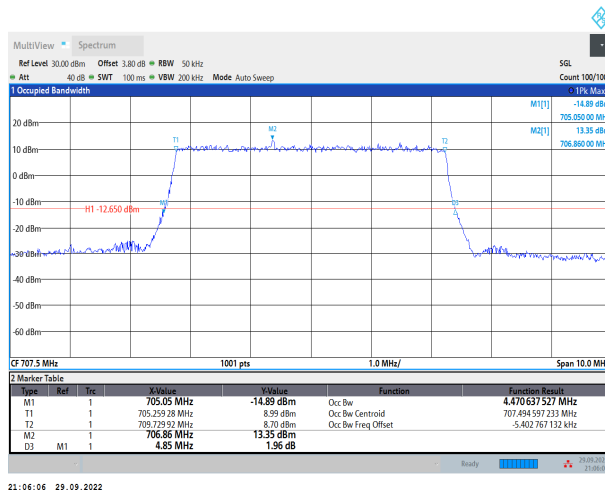
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Band12-5MHz-64QAM-23035-25RB#0



Band12-5MHz-64QAM-23095-25RB#0

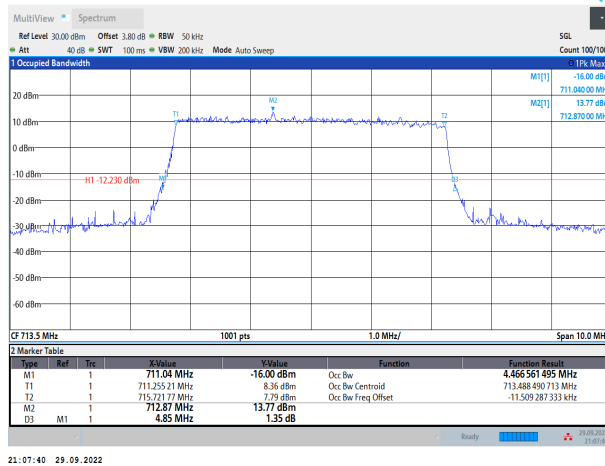


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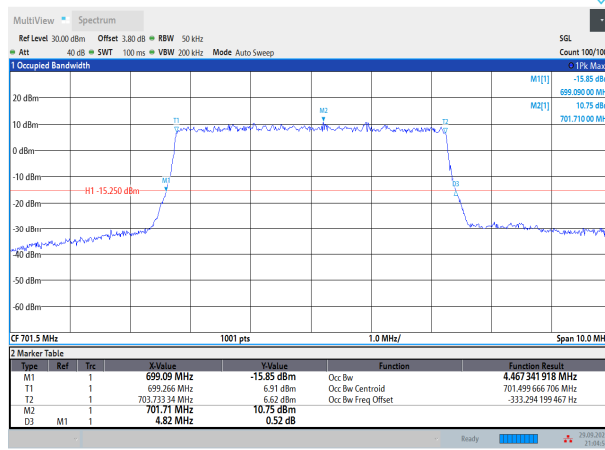
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Band12-5MHz-64QAM-23155-25RB#0



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Band12-5MHz-256QAM-23035-25RB#0



21:04:55 29.09.2022

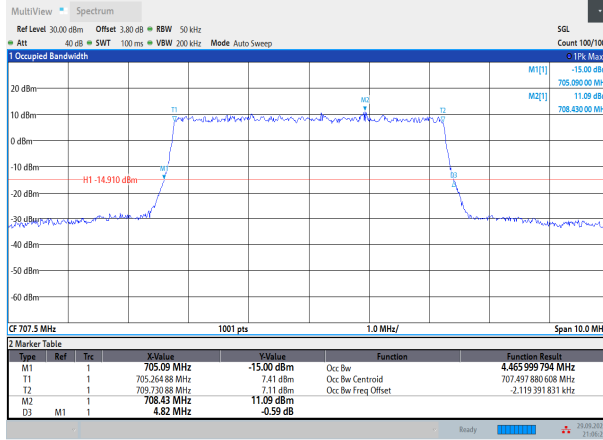


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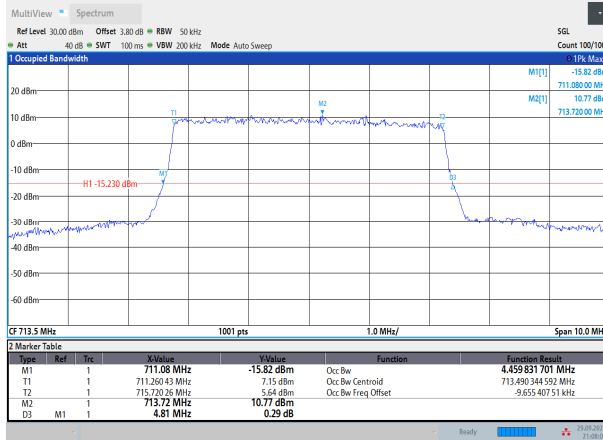
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Band12-5MHz-256QAM-23095-25RB#0



21:06:30 29.09.2022

Band12-5MHz-256QAM-23155-25RB#0



21:08:04 29.09.2022

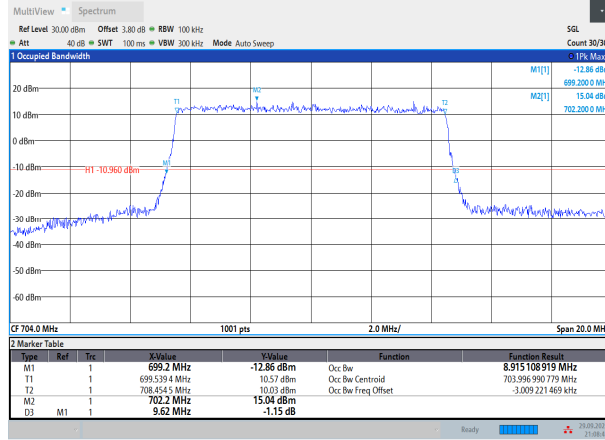


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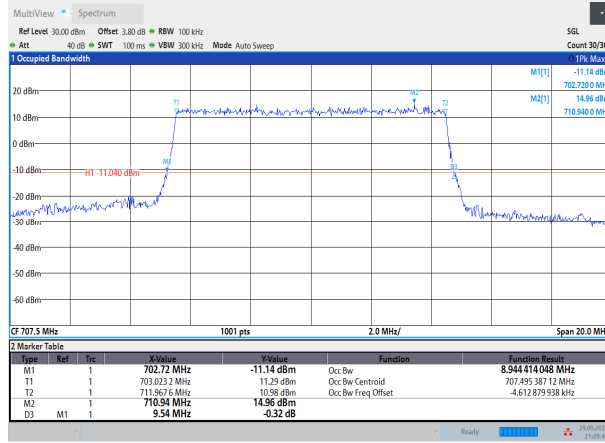
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Band12-10MHz-QPSK-23060-50RB#0



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

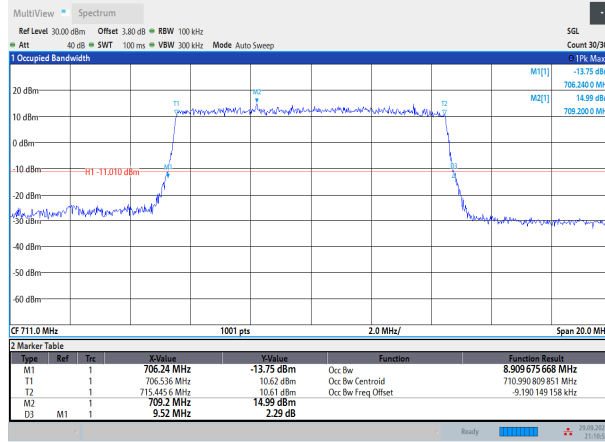


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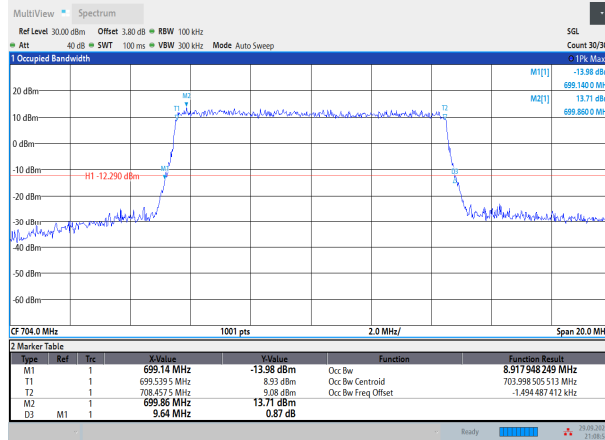
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Band12-10MHz-QPSK-23130-50RB#0



21:10:54 29.09.2022

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



21:08:58 29.09.2022

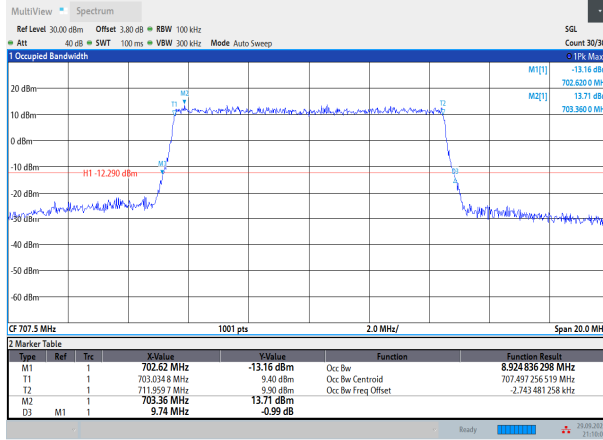


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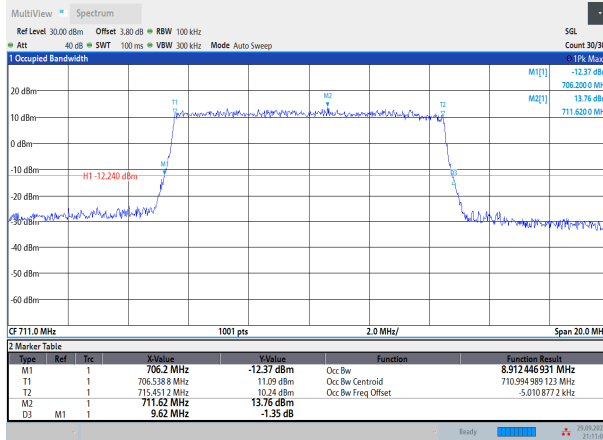
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21:10:04 29.09.2022

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



21:11:10 29.09.2022

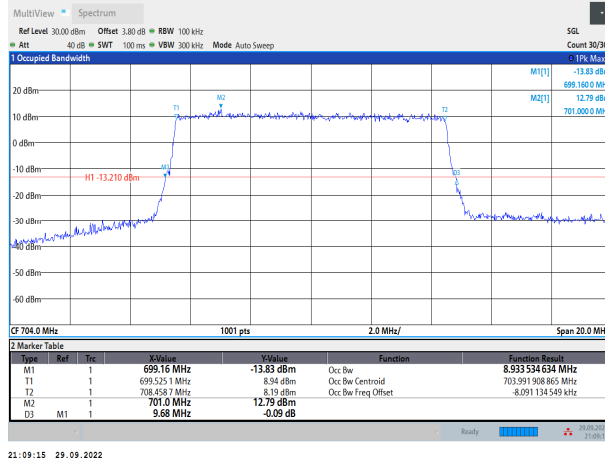


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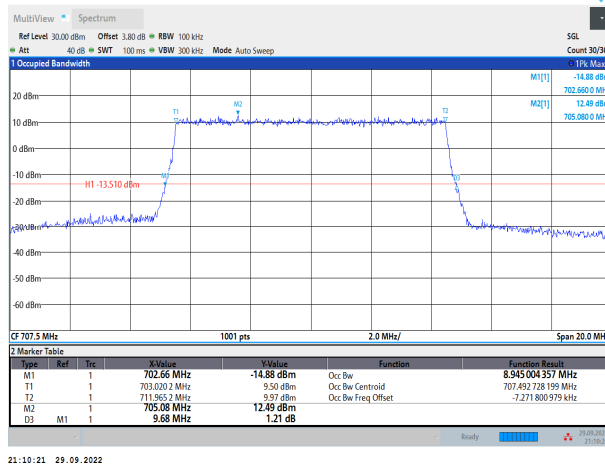
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Band12-10MHz-64QAM-23060-50RB#0



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

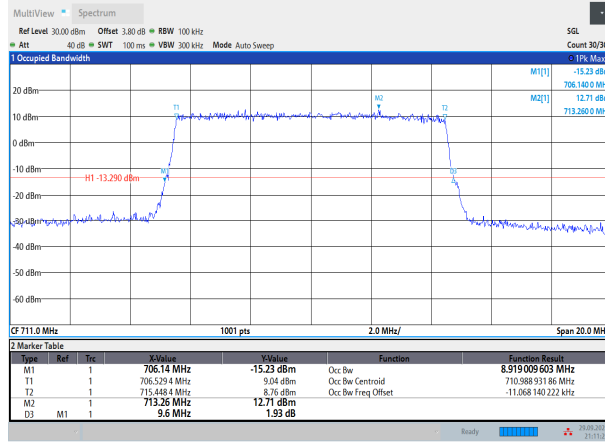


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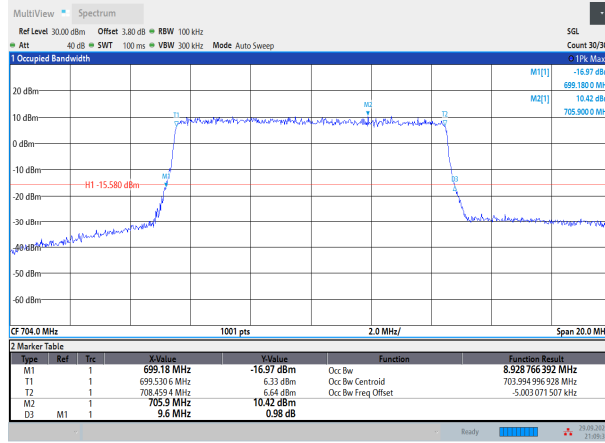
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Band12-10MHz-64QAM-23130-50RB#0



21:11:27 29.09.2022

Band12-10MHz-256QAM-23060-50RB#0



21:09:31 29.09.2022

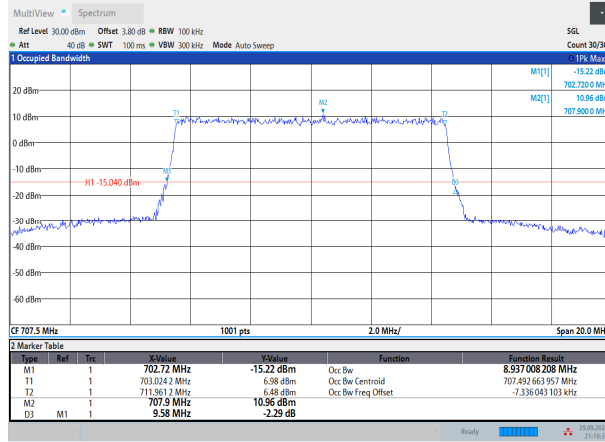


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Band12-10MHz-256QAM-23095-50RB#0



21:10:37 29.09.2022

Band12-10MHz-256QAM-23130-50RB#0



21:11:43 29.09.2022



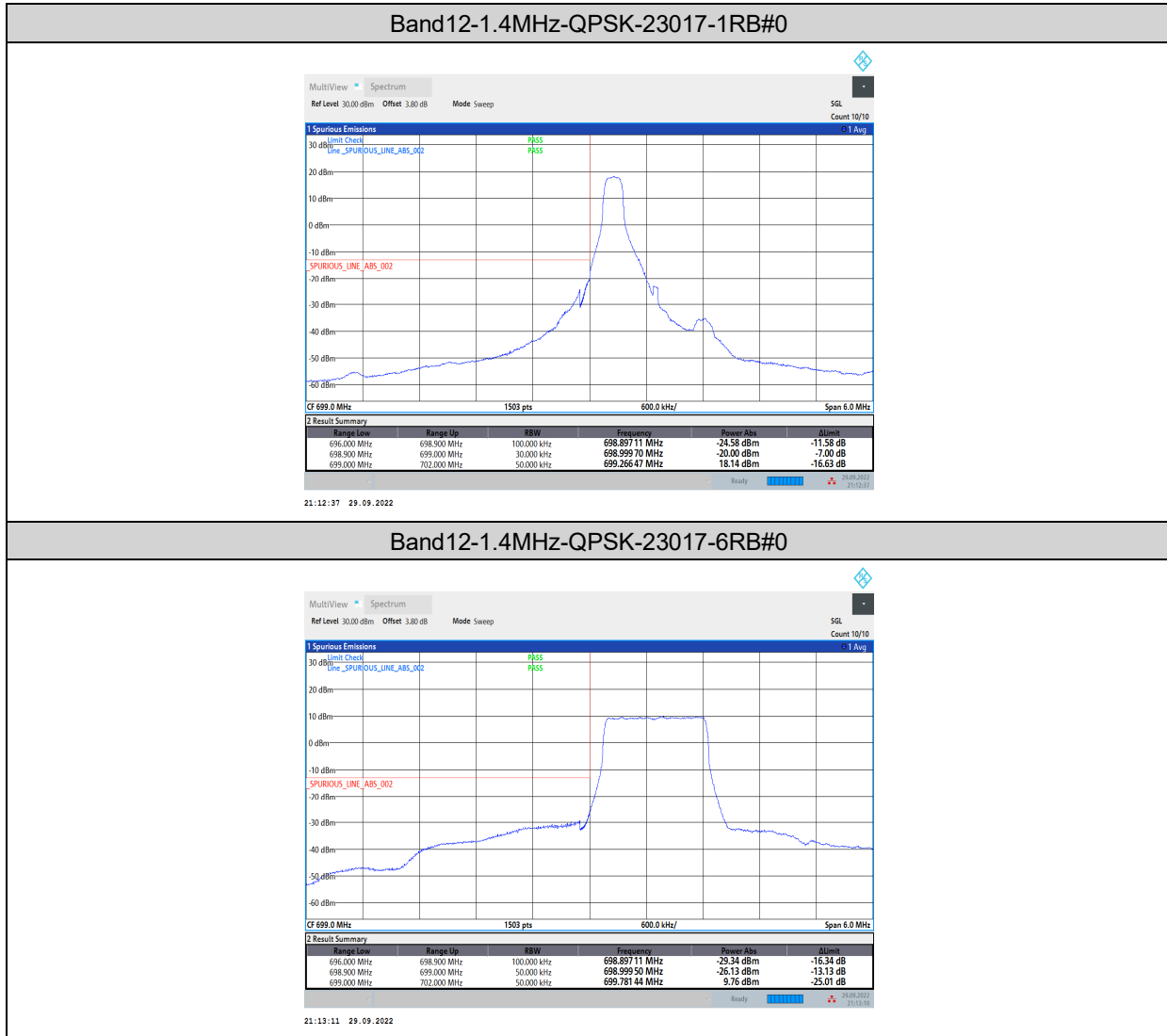
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Band Edge

Test Graphs

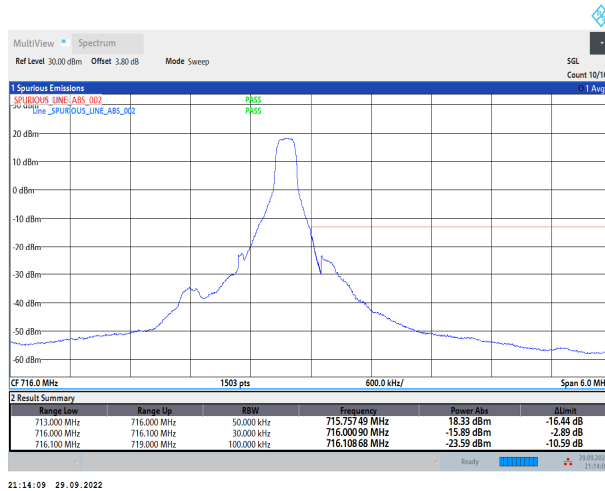


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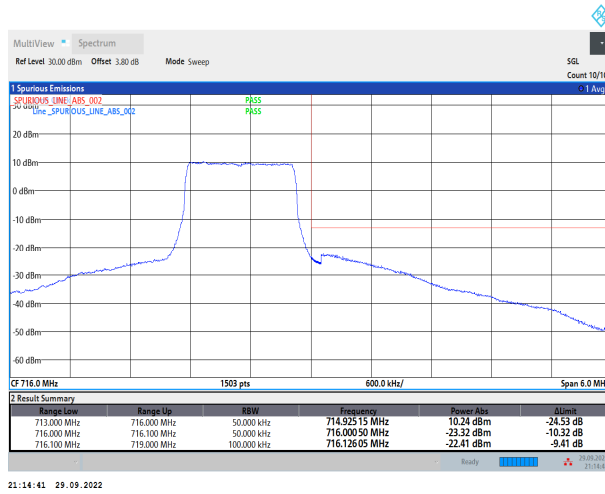
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Band12-1.4MHz-QPSK-23173-1RB#5



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

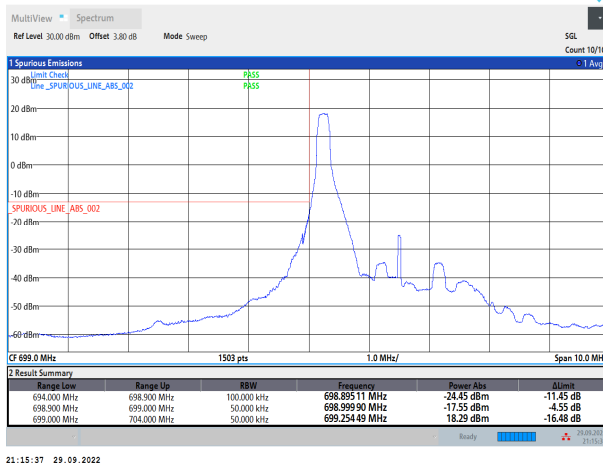


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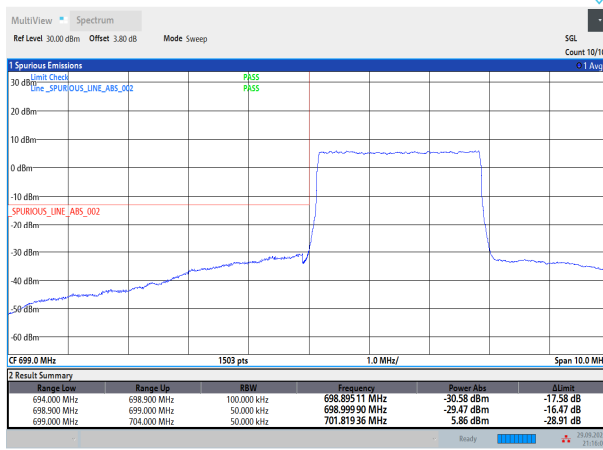
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Band12-3MHz-QPSK-23025-1RB#0



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



21:16:09 29.09.2022

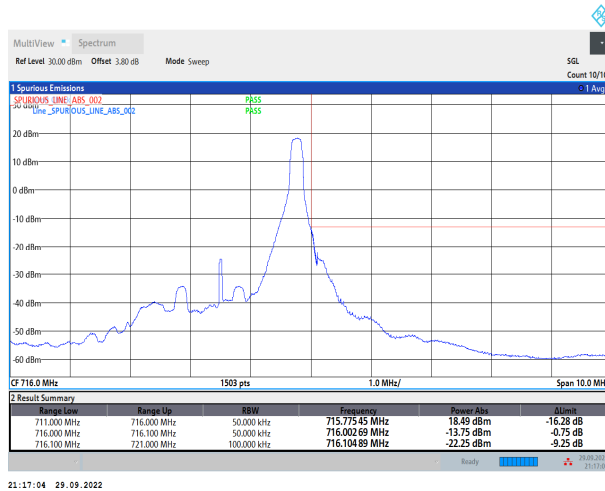


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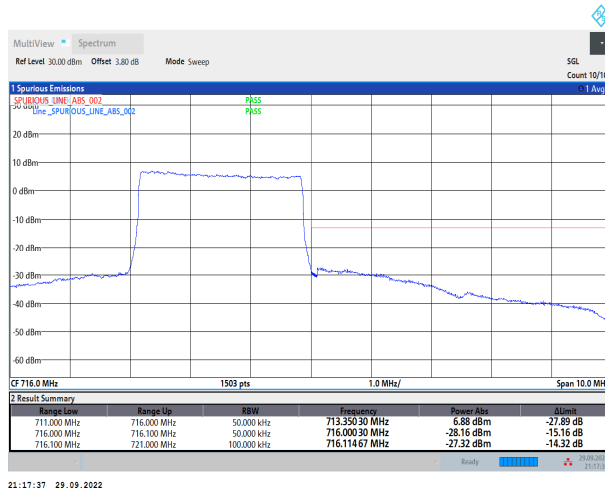
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Band12-3MHz-QPSK-23165-1RB#14



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

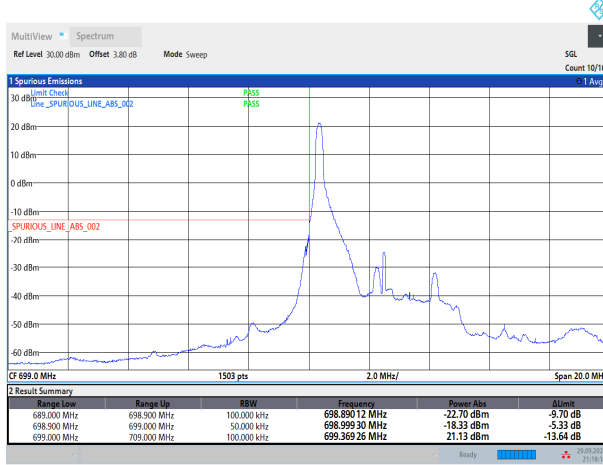


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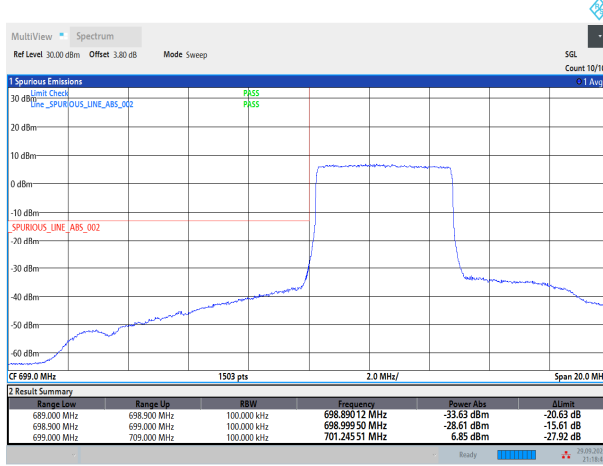
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Band12-5MHz-QPSK-23035-1RB#0



21:18:19 29.09.2022

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



21:18:42 29.09.2022

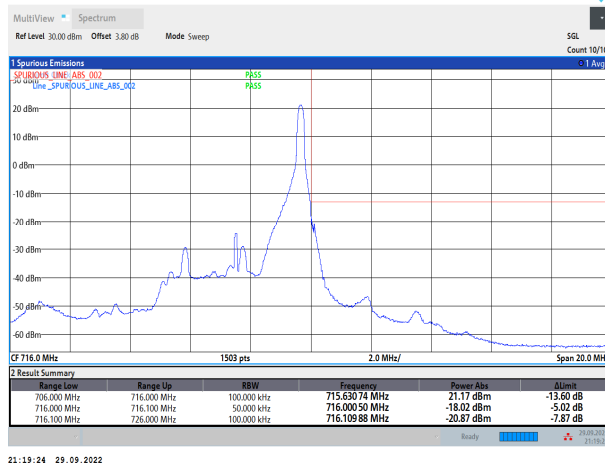


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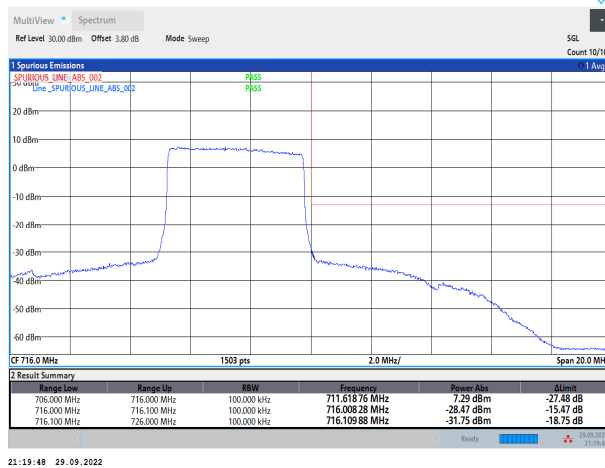
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Band12-5MHz-QPSK-23155-1RB#24



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

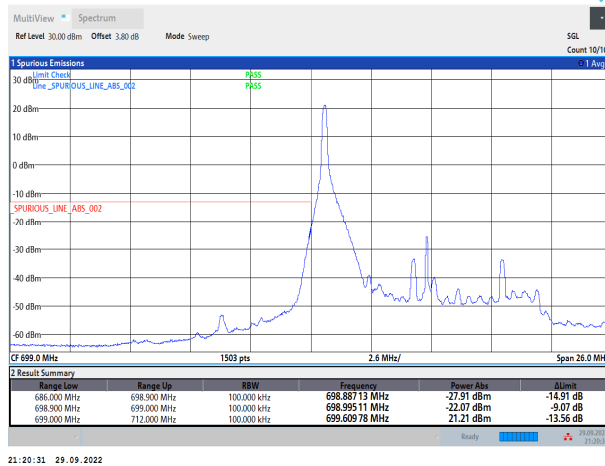


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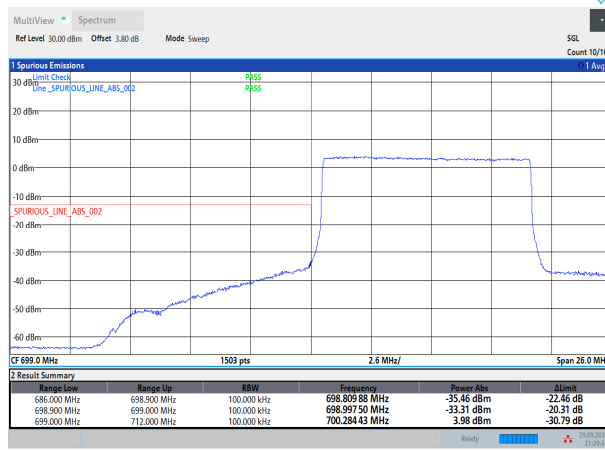
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Band12-10MHz-QPSK-23060-1RB#0



21:20:31 29.09.2022

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



21:20:55 29.09.2022

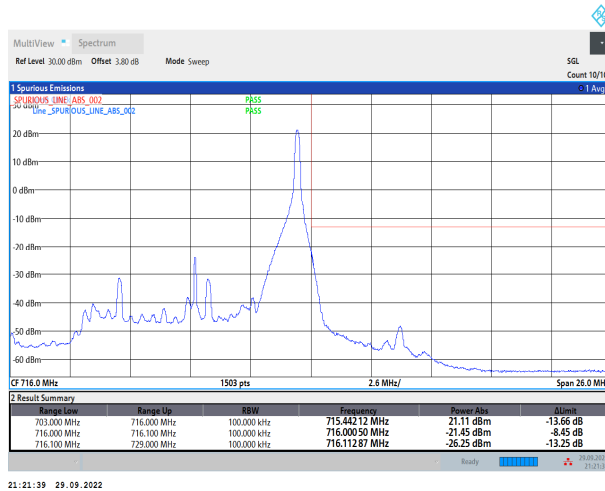


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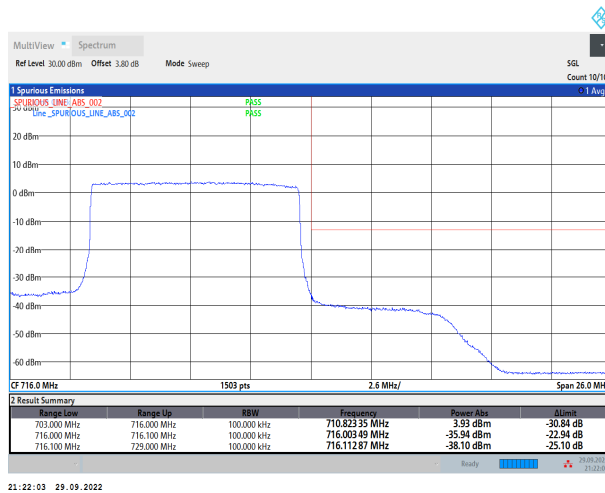
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Band12-10MHz-QPSK-23130-1RB#49



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



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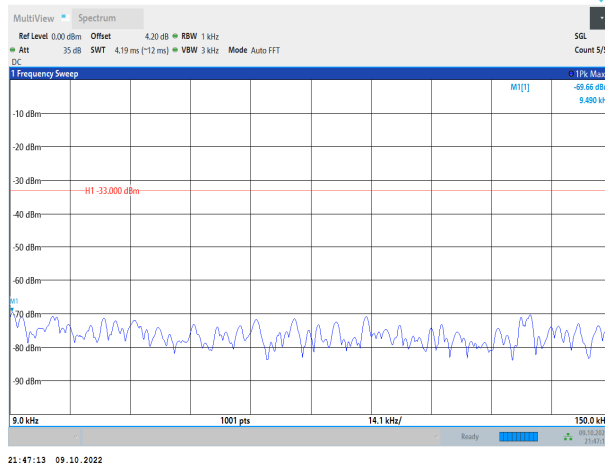
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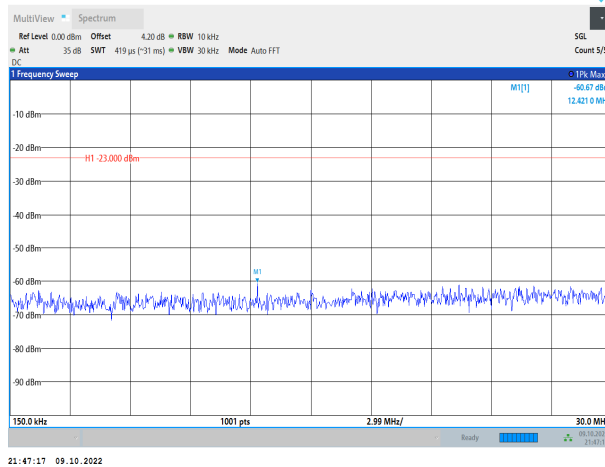
Conducted Spurious Emission

Test Graphs

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



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

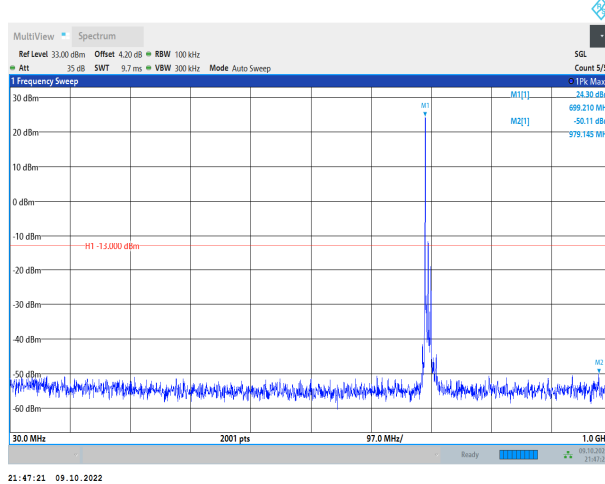


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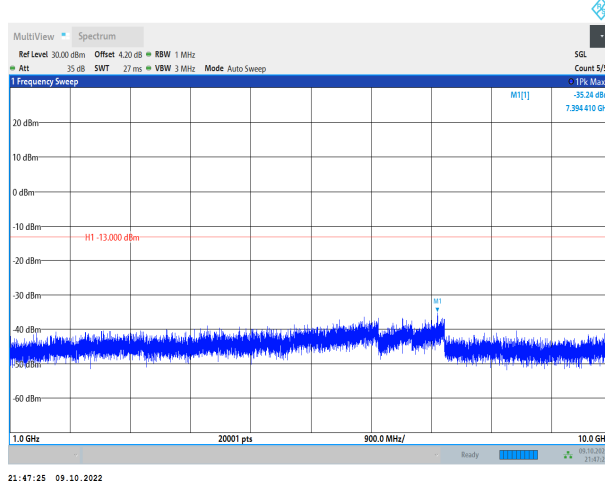
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

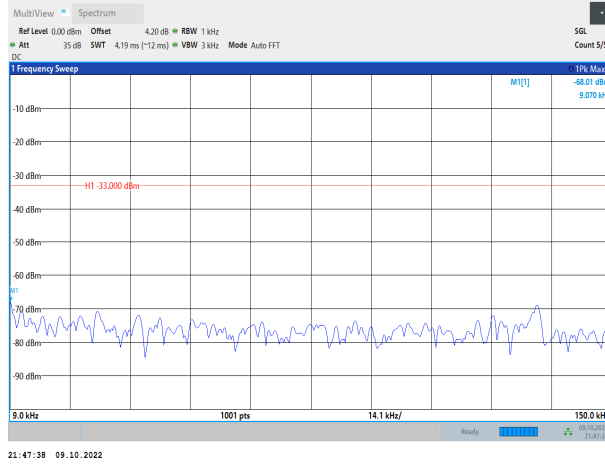


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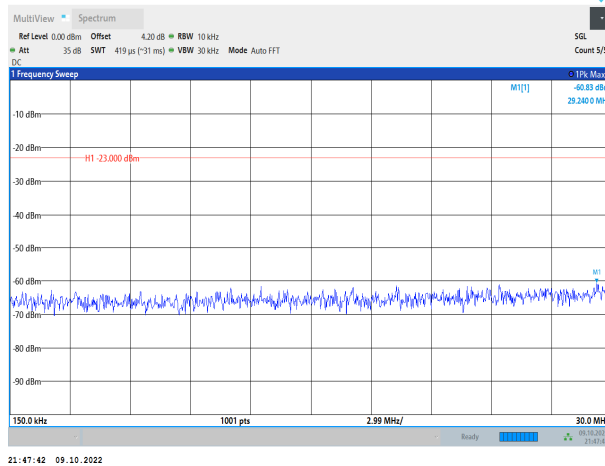
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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

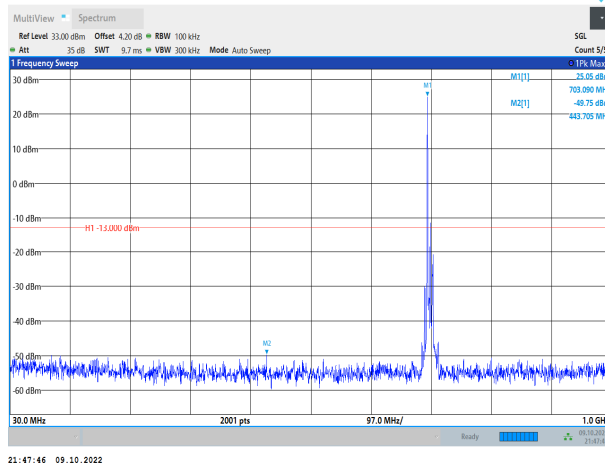


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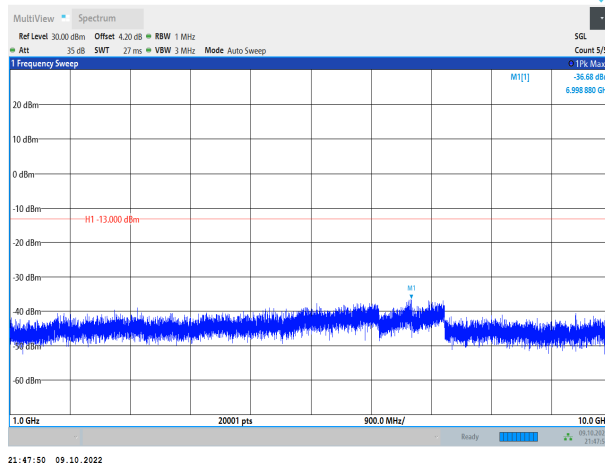
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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

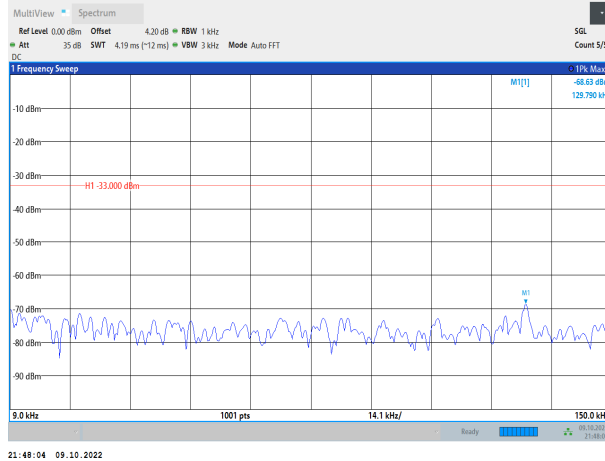


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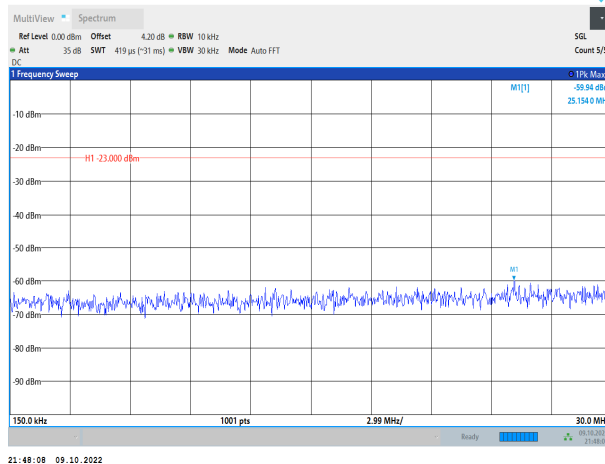
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

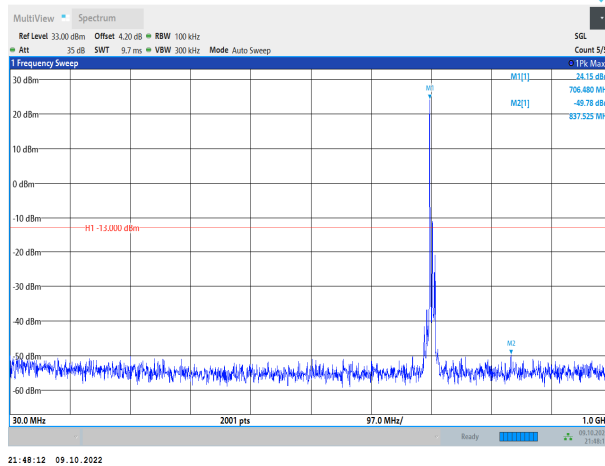


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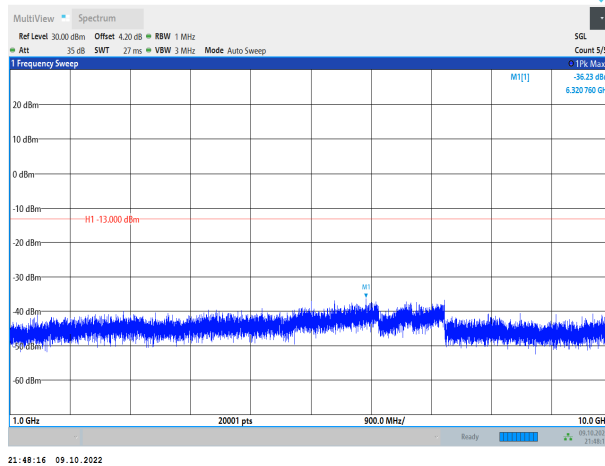
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE 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	51.78	-48.00	25.62	-65.86	-13.00	52.86	215	202	Horizontal
2	2098.7700	50.13	-47.71	26.99	-65.86	-13.00	52.86	155	309	Horizontal
3	2798.3600	50.62	-46.92	28.48	-63.08	-13.00	50.08	145	282	Horizontal
4	3497.9500	49.98	-46.54	29.52	-62.30	-13.00	49.30	126	135	Horizontal
5	4197.5400	46.89	-45.96	31.10	-63.23	-13.00	50.23	291	269	Horizontal
6	4897.1300	49.05	-45.58	32.59	-59.20	-13.00	46.20	148	83	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	52.03	-48.00	25.62	-65.61	-13.00	52.61	215	230	Vertical
2	2098.7700	52.29	-47.71	26.99	-63.70	-13.00	50.70	145	201	Vertical
3	2798.3600	50.20	-46.92	28.48	-63.50	-13.00	50.50	266	242	Vertical
4	3497.9500	49.79	-46.54	29.52	-62.49	-13.00	49.49	258	242	Vertical
5	4197.5400	47.75	-45.96	31.10	-62.37	-13.00	49.37	147	54	Vertical
6	4897.1300	50.24	-45.58	32.59	-58.01	-13.00	45.01	193	92	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	51.35	-48.02	25.61	-66.32	-13.00	53.32	111	40	Horizontal
2	2109.2700	50.51	-47.71	27.02	-65.43	-13.00	52.43	132	0	Horizontal
3	2812.3600	50.47	-46.88	28.53	-63.13	-13.00	50.13	165	7	Horizontal
4	3515.4500	49.69	-46.51	29.53	-62.54	-13.00	49.54	148	3	Horizontal
5	4218.5400	49.12	-45.93	31.14	-60.93	-13.00	47.93	125	3	Horizontal
6	4921.6300	49.56	-45.63	32.66	-58.67	-13.00	45.67	193	242	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	50.52	-48.02	25.61	-67.15	-13.00	54.15	255	65	Vertical
2	2109.2700	50.34	-47.71	27.02	-65.60	-13.00	52.60	145	105	Vertical
3	2812.3600	50.52	-46.88	28.53	-63.08	-13.00	50.08	265	252	Vertical
4	3515.4500	50.40	-46.51	29.53	-61.83	-13.00	48.83	236	91	Vertical
5	4218.5400	48.77	-45.93	31.14	-61.28	-13.00	48.28	215	356	Vertical
6	4921.6300	48.31	-45.63	32.66	-59.92	-13.00	46.92	199	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	50.79	-48.04	25.60	-66.91	-13.00	53.91	245	356	Horizontal
2	2119.7700	49.77	-47.70	27.06	-66.13	-13.00	53.13	168	252	Horizontal
3	2826.3600	50.33	-46.83	28.60	-63.16	-13.00	50.16	199	306	Horizontal
4	3532.9500	49.17	-46.47	29.55	-63.01	-13.00	50.01	148	38	Horizontal
5	4239.5400	49.02	-45.89	31.18	-60.95	-13.00	47.95	175	92	Horizontal
6	4946.1300	48.13	-45.69	32.73	-60.09	-13.00	47.09	143	226	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	51.53	-48.04	25.60	-66.17	-13.00	53.17	255	292	Vertical
2	2119.7700	50.25	-47.70	27.06	-65.65	-13.00	52.65	148	80	Vertical
3	2826.3600	49.85	-46.83	28.60	-63.64	-13.00	50.64	129	40	Vertical
4	3532.9500	48.81	-46.47	29.55	-63.37	-13.00	50.37	195	360	Vertical
5	4239.5400	48.26	-45.89	31.18	-61.71	-13.00	48.71	147	292	Vertical
6	4946.1300	48.85	-45.69	32.73	-59.37	-13.00	46.37	180	357	Vertical



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Test Band = LTE 12A_66A_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	37.62	-25.24	25.62	-57.26	-13.00	44.26	254	114	Horizontal
2	2098.7700	38.33	-24.20	26.99	-54.14	-13.00	41.14	186	93	Horizontal
3	2798.3600	39.30	-22.56	28.48	-50.05	-13.00	37.05	196	11	Horizontal
4	3404.1800	49.98	-46.28	29.43	-62.13	-13.00	49.13	233	103	Horizontal
5	5106.2700	47.59	-45.36	32.94	-60.10	-13.00	47.10	215	286	Horizontal
6	6808.3600	46.49	-44.16	35.85	-57.08	-13.00	44.08	146	194	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	37.37	-25.24	25.62	-57.51	-13.00	44.51	284	4	Vertical
2	2098.7700	38.49	-24.20	26.99	-53.98	-13.00	40.98	196	360	Vertical
3	2798.3600	38.34	-22.56	28.48	-51.01	-13.00	38.01	155	325	Vertical
4	3404.1800	50.44	-46.28	29.43	-61.67	-13.00	48.67	147	195	Vertical
5	5106.2700	46.13	-45.36	32.94	-61.56	-13.00	48.56	128	357	Vertical
6	6808.3600	46.51	-44.16	35.85	-57.06	-13.00	44.06	140	300	Vertical



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Test Band = LTE 12A_66A_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	37.06	-25.24	25.61	-57.82	-13.00	44.82	269	173	Horizontal
2	2109.2700	38.68	-24.19	27.02	-53.75	-13.00	40.75	145	153	Horizontal
3	2812.3600	40.08	-22.61	28.54	-49.26	-13.00	36.26	211	316	Horizontal
4	3454.1800	49.61	-46.27	29.48	-62.44	-13.00	49.44	230	147	Horizontal
5	5181.2700	46.31	-45.30	32.98	-61.27	-13.00	48.27	158	209	Horizontal
6	6908.3600	45.49	-44.05	35.97	-57.85	-13.00	44.85	195	116	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	37.24	-25.24	25.61	-57.64	-13.00	44.64	284	10	Vertical
2	2109.2700	38.81	-24.19	27.02	-53.62	-13.00	40.62	169	359	Vertical
3	2812.3600	37.79	-22.61	28.54	-51.55	-13.00	38.55	185	60	Vertical
4	3454.1800	49.17	-46.27	29.48	-62.88	-13.00	49.88	172	117	Vertical
5	5181.2700	47.82	-45.30	32.98	-59.76	-13.00	46.76	133	72	Vertical
6	6908.3600	45.63	-44.05	35.97	-57.71	-13.00	44.71	210	86	Vertical



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Test Band = LTE 12A_66A_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	38.59	-25.23	25.60	-56.30	-13.00	43.30	286	344	Horizontal
2	2119.7700	38.91	-24.18	27.06	-53.47	-13.00	40.47	251	153	Horizontal
3	2826.3600	37.34	-22.67	28.60	-51.99	-13.00	38.99	142	344	Horizontal
4	3504.1800	49.85	-46.25	29.52	-62.14	-13.00	49.14	133	135	Horizontal
5	5256.2700	46.63	-45.17	32.94	-60.87	-13.00	47.87	269	104	Horizontal
6	7008.3600	45.94	-43.61	36.10	-56.83	-13.00	43.83	142	357	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	37.92	-25.23	25.60	-56.97	-13.00	43.97	198	112	Vertical
2	2119.7700	39.42	-24.18	27.06	-52.96	-13.00	39.96	145	122	Vertical
3	2826.3600	38.19	-22.67	28.60	-51.14	-13.00	38.14	176	204	Vertical
4	3504.1800	49.42	-46.25	29.52	-62.57	-13.00	49.57	142	163	Vertical
5	5256.2700	47.02	-45.17	32.94	-60.48	-13.00	47.48	133	132	Vertical
6	7008.3600	45.91	-43.61	36.10	-56.86	-13.00	43.86	269	2	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	-1.00	-0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.50	0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-2.60	-0.003675	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	1.10	0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-3.50	-0.004947	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	2.70	0.003816	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-1.20	-0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	2.40	0.003392	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.80	-0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.20	-0.003110	PASS

---End of Attachment---



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