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Appendix B.7

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	23.72	17.47	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.81	17.56	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.79	17.54	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.3	17.05	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.98	17.73	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.75	17.5	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.68	17.43	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.22	16.97	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.97	17.72	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.7	17.45	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.91	17.66	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.18	16.93	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.07	16.82	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.22	16.97	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.21	16.96	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.29	16.04	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.25	17	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.37	17.12	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.3	17.05	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.3	16.05	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.1	16.85	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.09	16.84	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.18	16.93	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.2	15.95	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.19	15.94	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.26	16.01	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	22.18	15.93	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	21.25	15	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.33	16.08	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.3	16.05	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.22	15.97	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.22	14.97	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.18	15.93	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.22	15.97	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.13	15.88	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.15	14.9	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.94	17.69	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.74	17.49	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.88	17.63	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.15	16.9	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.9	17.65	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.98	17.73	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.82	17.57	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.09	16.84	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.84	17.59	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.95	17.7	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.78	17.53	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.09	16.84	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.01	16.76	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.18	16.93	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.06	16.81	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.1	15.85	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.2	16.95	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.27	17.02	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.03	16.78	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.09	15.84	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.86	16.61	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.14	16.89	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23	16.75	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.05	15.8	34.77	PASS



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Band12	3MHz	64QAM	23025	1RB#0	22.01	15.76	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.22	15.97	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.08	15.83	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.14	14.89	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.25	16	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.24	15.99	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.07	15.82	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.11	14.86	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.99	15.74	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.14	15.89	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22	15.75	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.04	14.79	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.8	17.55	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.93	17.68	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.82	17.57	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.23	16.98	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.88	17.63	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.97	17.72	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.78	17.53	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.25	17	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.78	17.53	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.94	17.69	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.75	17.5	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.25	17	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.19	16.94	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.27	17.02	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.31	17.06	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.2	15.95	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.44	17.19	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.52	17.27	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.22	16.97	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.26	16.01	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.21	16.96	34.77	PASS



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Band12	5MHz	16QAM	23155	1RB#12	23.21	16.96	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.24	16.99	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.2	15.95	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.29	16.04	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.37	16.12	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.35	16.1	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.23	14.98	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.45	16.2	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.46	16.21	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.24	15.99	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.29	15.04	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.21	15.96	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.22	15.97	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.27	16.02	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.21	14.96	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.95	17.7	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.97	17.72	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.9	17.65	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.33	17.08	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.97	17.72	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.99	17.74	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.87	17.62	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.3	17.05	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.98	17.73	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.93	17.68	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.85	17.6	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.21	16.96	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.31	17.06	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.51	17.26	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.44	17.19	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.29	16.04	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.51	17.26	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.48	17.23	34.77	PASS



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Band12	10MHz	16QAM	23095	50RB#0	22.26	16.01	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.55	17.3	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.27	17.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.38	17.13	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.14	15.89	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.38	16.13	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.54	16.29	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.36	16.11	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.32	15.07	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.45	16.2	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.52	16.27	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.22	15.97	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.28	15.03	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.53	16.28	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.25	16	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	22.29	16.04	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.16	14.91	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	5.20	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.16	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.00	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.90	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.96	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.74	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.26	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.40	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.14	13	PASS



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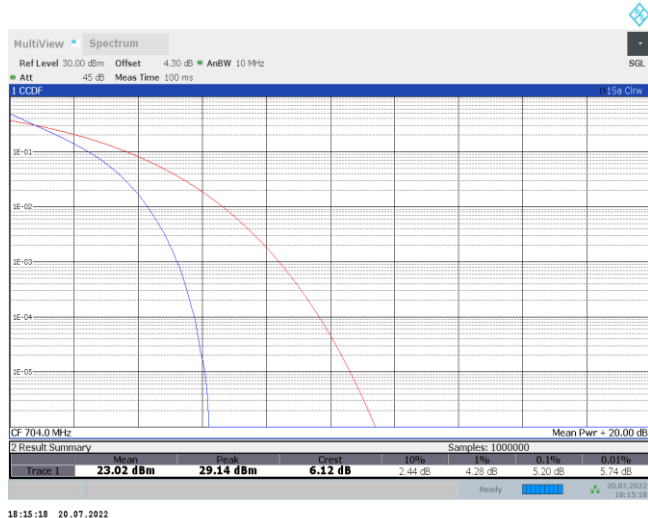
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Wireless Laboratory

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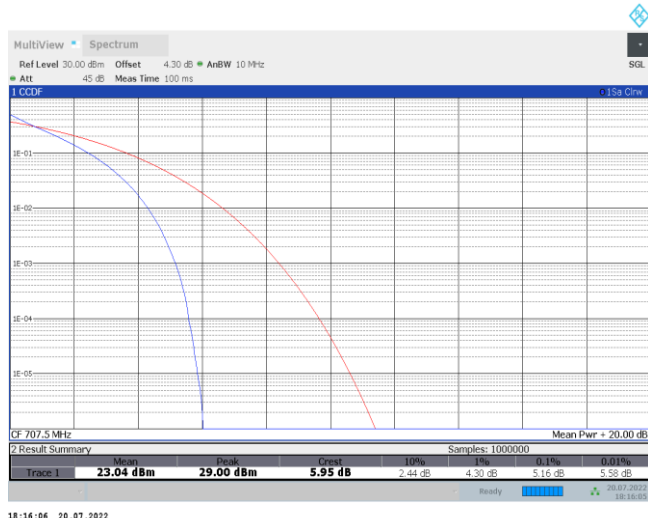
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Test Graphs

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



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

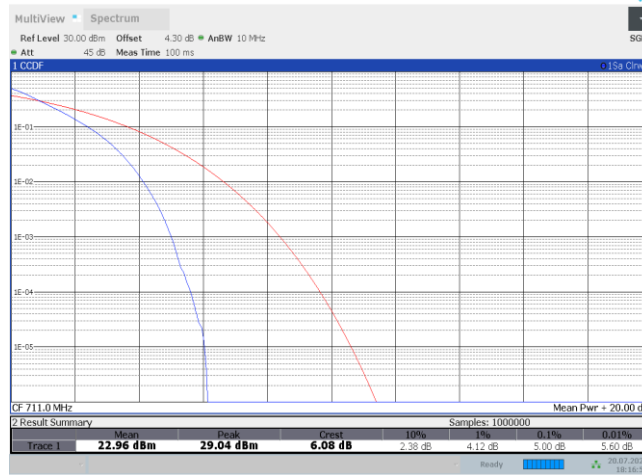


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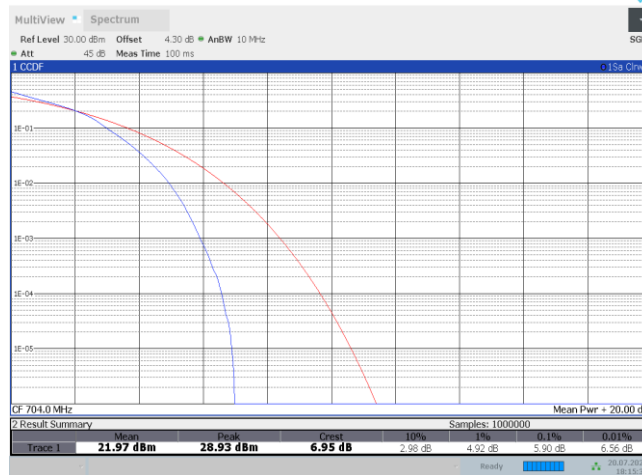
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Band12-10MHz-QPSK-23130-50RB#0



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

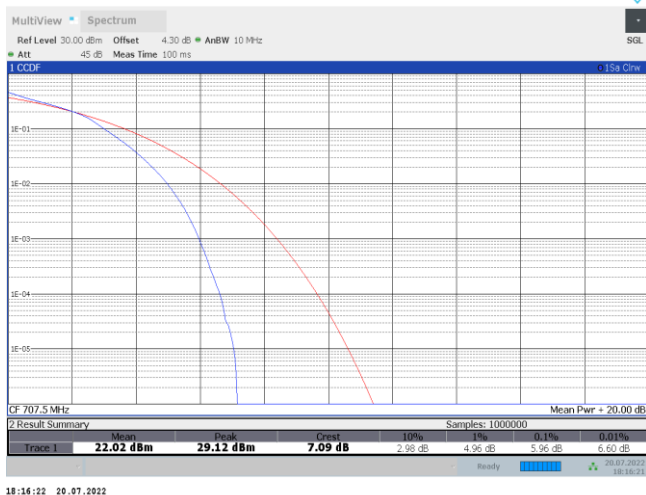


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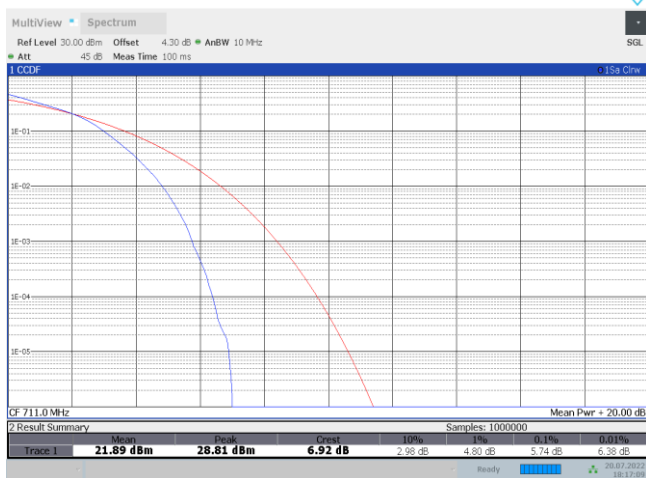
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Band12-10MHz-16QAM-23095-50RB#0



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

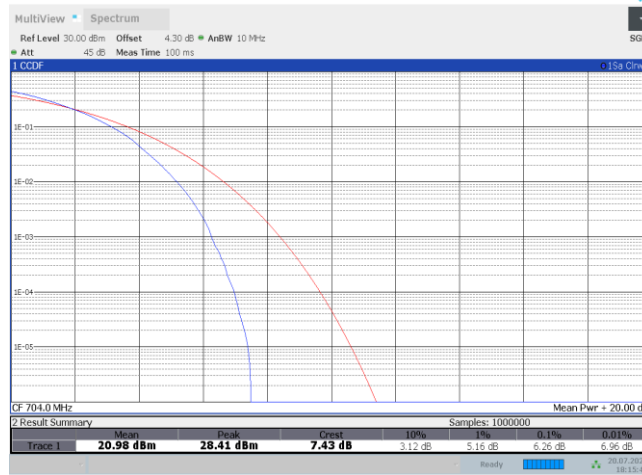


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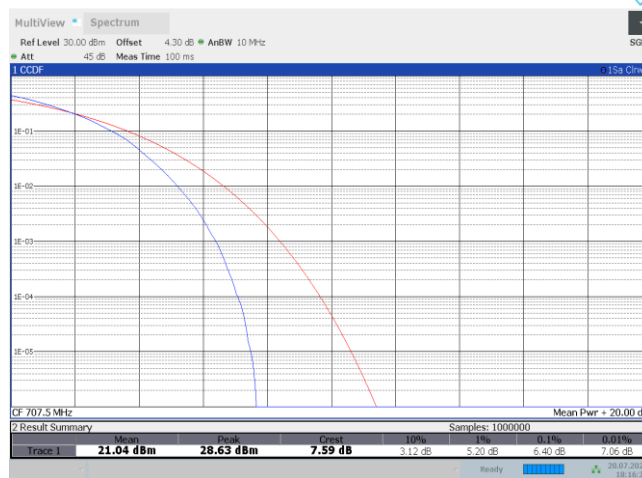
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Band12-10MHz-64QAM-23060-50RB#0



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



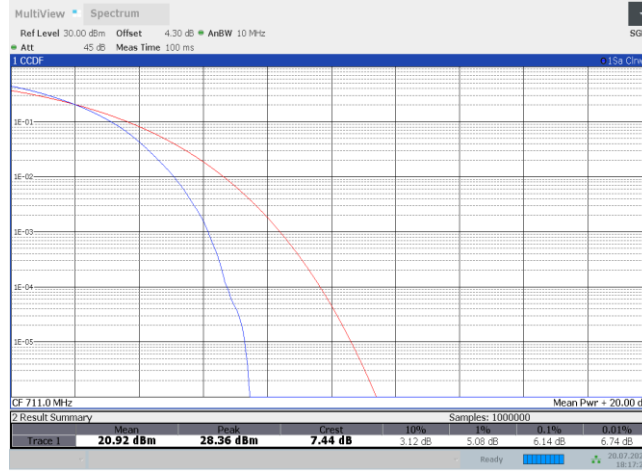
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Band12-10MHz-64QAM-23130-50RB#0



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Modulation Characteristics

Test Result

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



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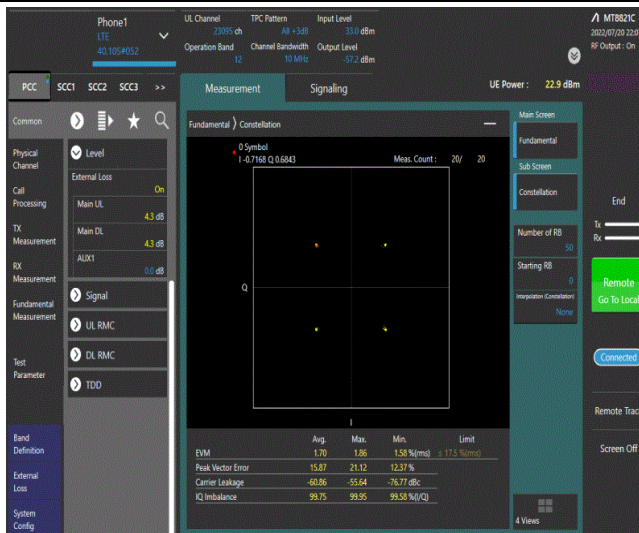
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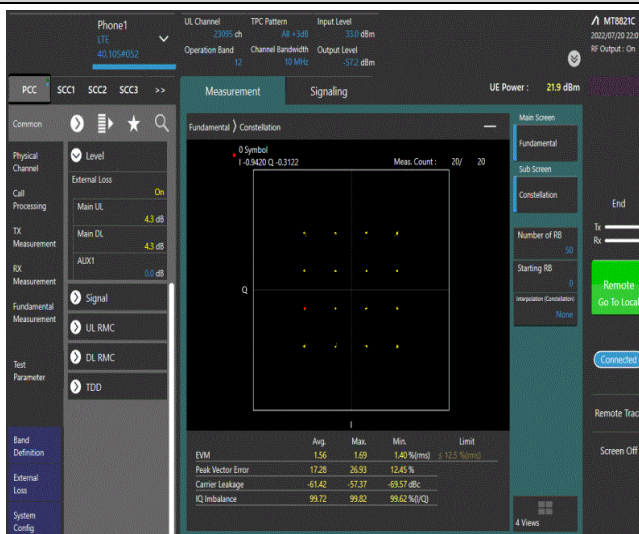
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Test Graphs

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



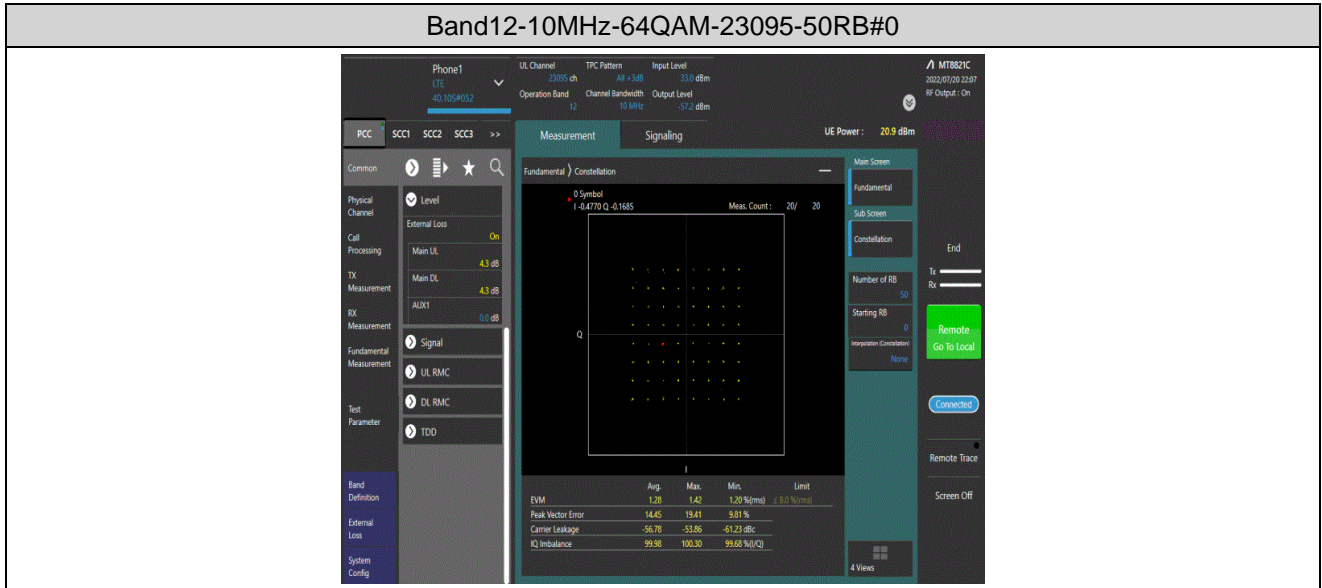
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.090	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.089	1.26	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.091	1.27	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.103	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.28	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.098	1.30	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.098	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.097	1.28	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.100	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.686	2.98	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.685	2.95	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.698	3.01	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.678	2.96	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.675	2.97	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.683	2.97	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.675	2.94	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.681	2.93	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.684	2.94	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.469	4.86	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.469	4.82	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.479	5.16	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.470	4.87	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.463	4.83	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.469	4.91	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.473	4.84	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.477	4.85	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.482	4.84	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.921	9.58	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.940	9.60	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.930	9.58	PASS



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Report No.: SEWM2207000122RG01

Rev.: 01

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Band12	10MHz	16QAM	23060	50RB#0	8.911	9.64	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.911	9.56	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.905	9.52	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.916	9.58	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.935	9.64	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.913	9.54	PASS

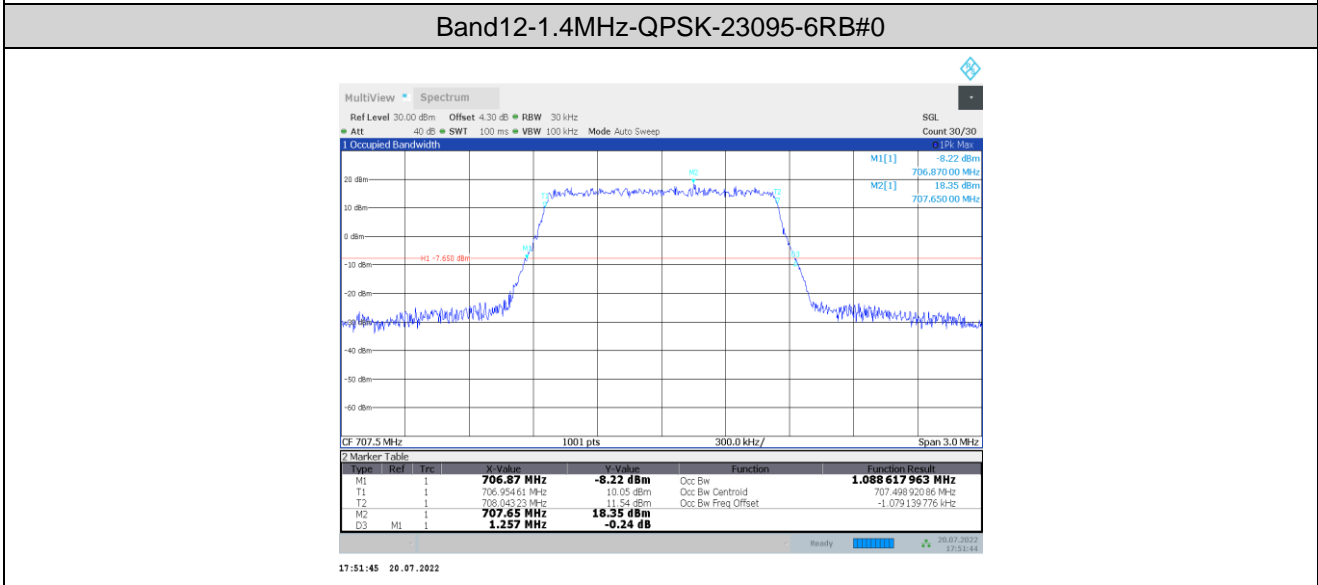
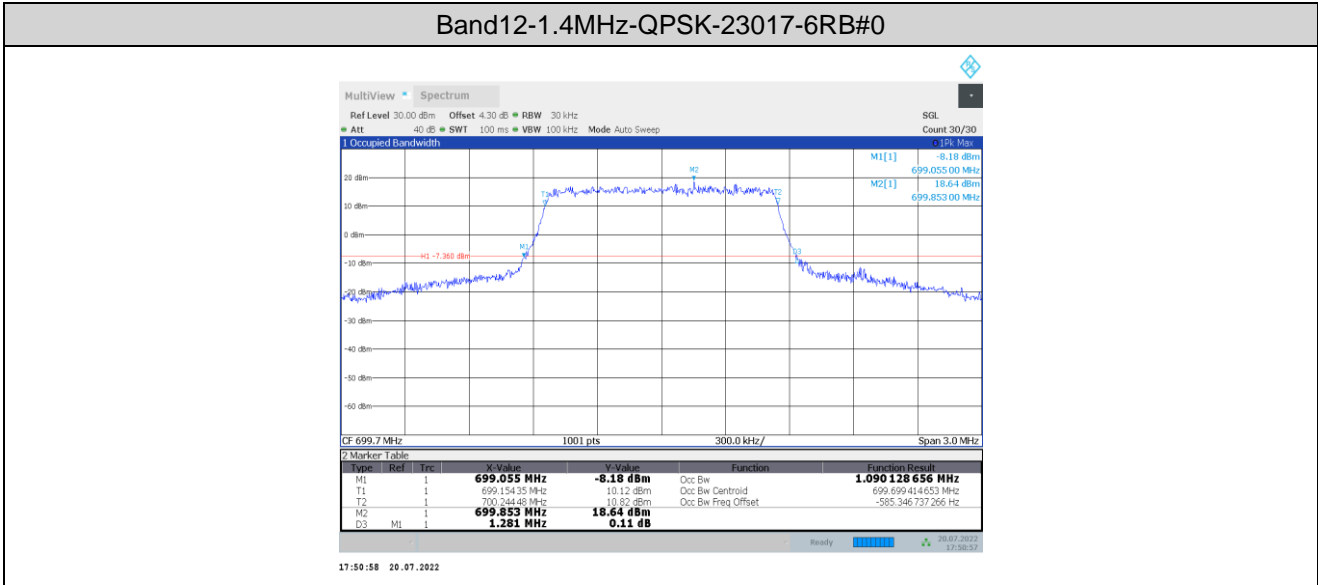


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Test Graphs



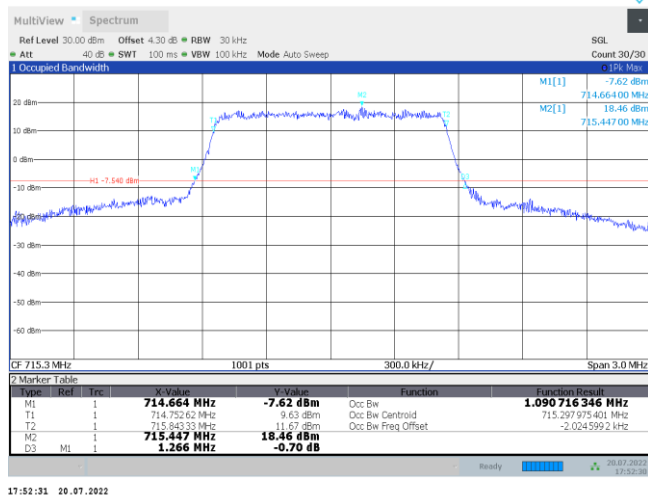
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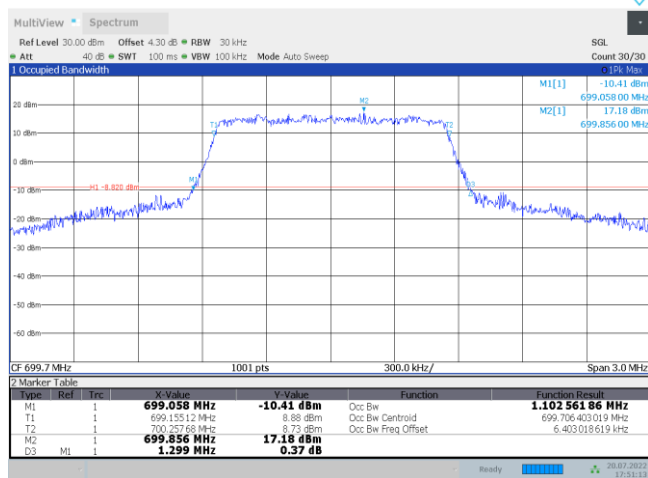
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Band12-1.4MHz-QPSK-23173-6RB#0



17:52:31 20.07.2022

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

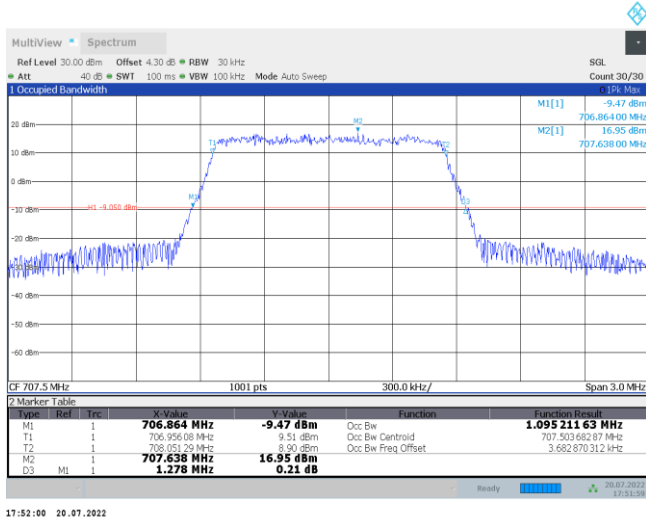


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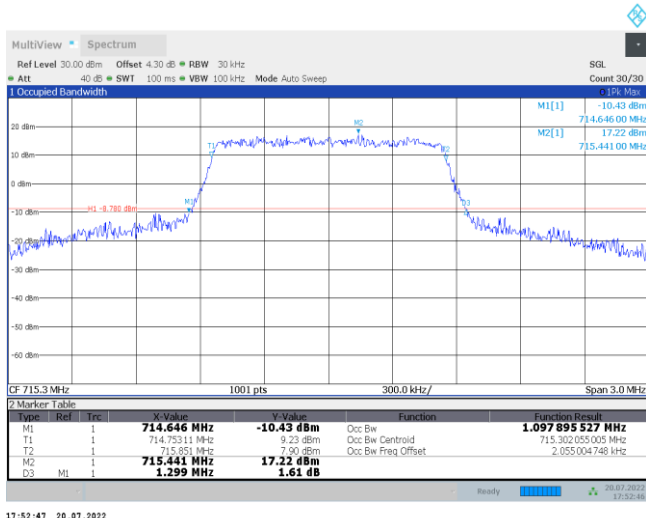


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Band12-1.4MHz-16QAM-23095-6RB#0



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

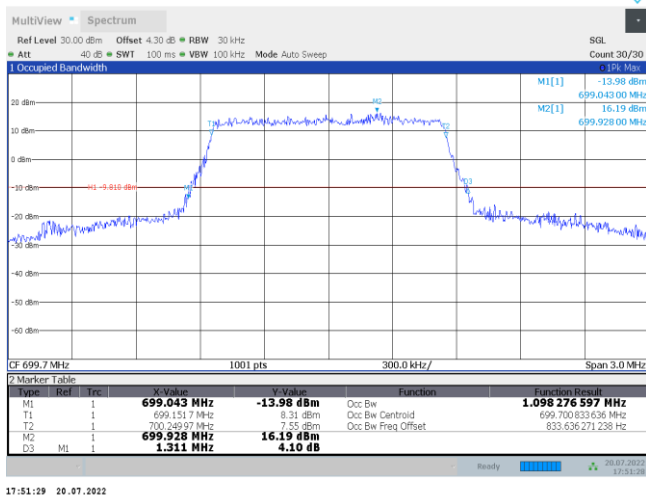


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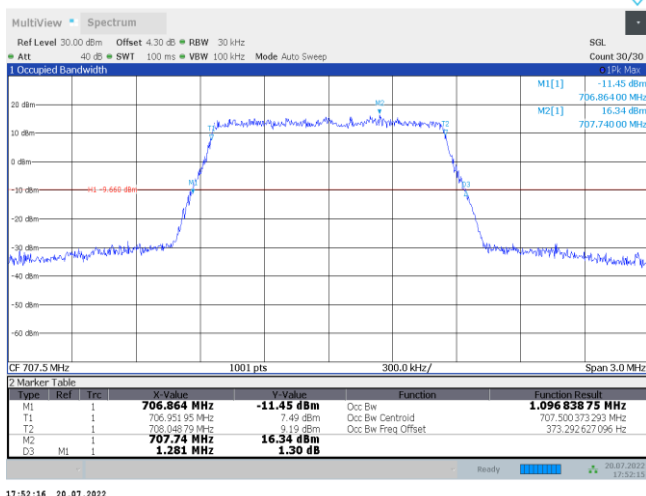
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Band12-1.4MHz-64QAM-23017-6RB#0



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

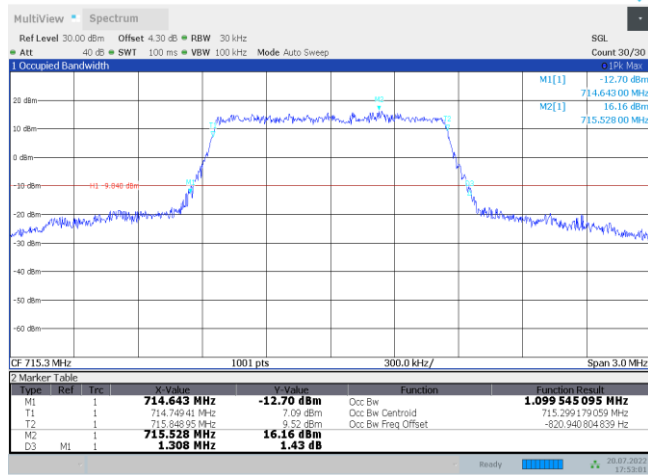


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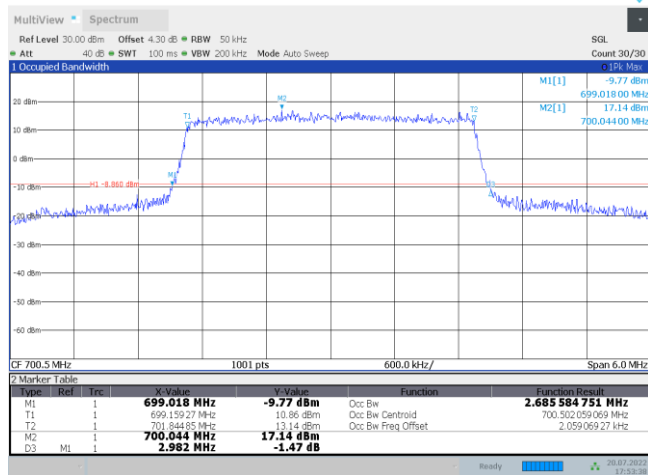
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Band12-1.4MHz-64QAM-23173-6RB#0



17:53:02 20.07.2022

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



17:53:39 20.07.2022

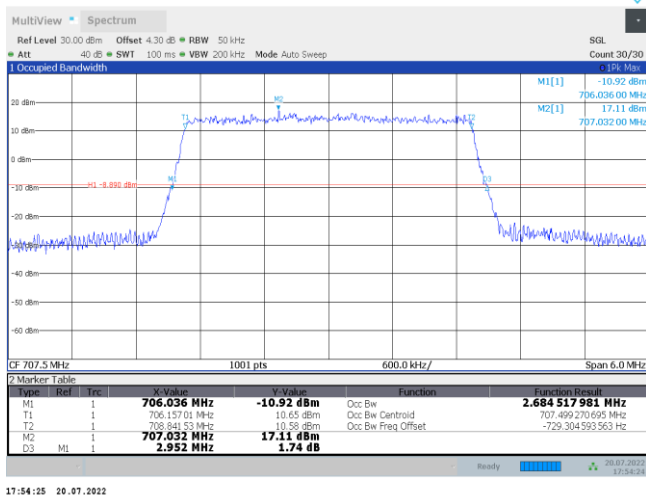


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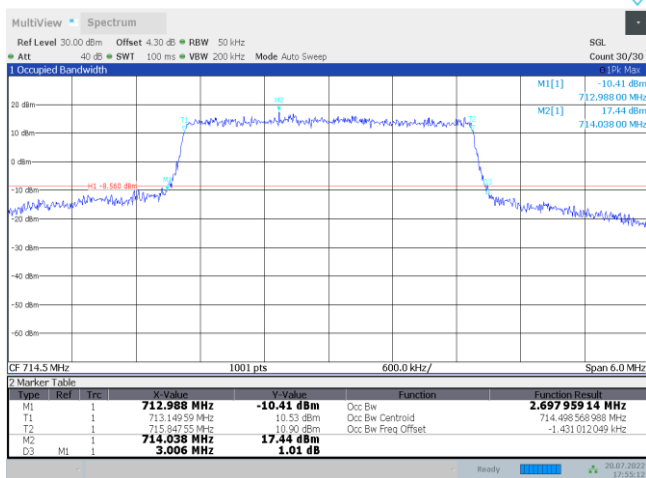
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Band12-3MHz-QPSK-23095-15RB#0



17:54:25 20.07.2022

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

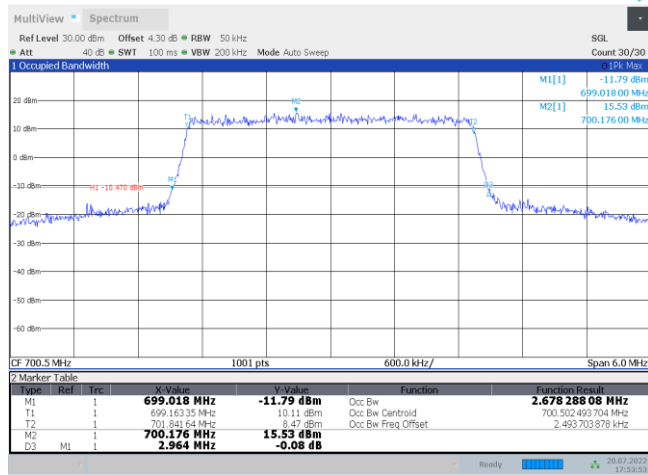


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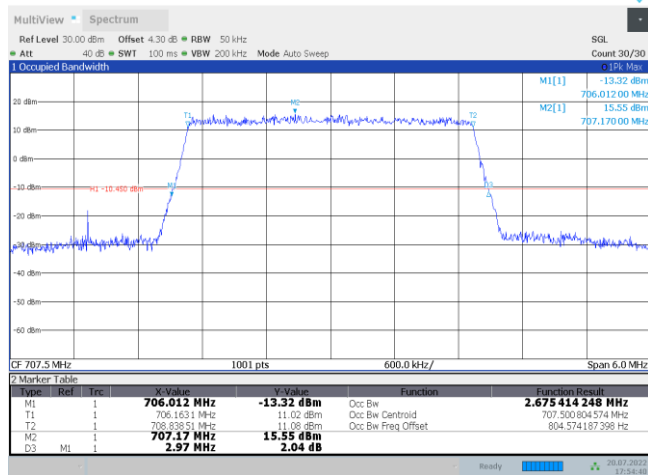


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Band12-3MHz-16QAM-23025-15RB#0

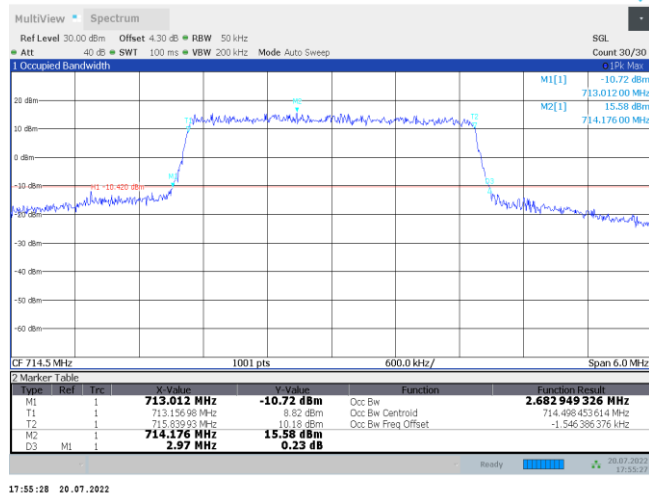


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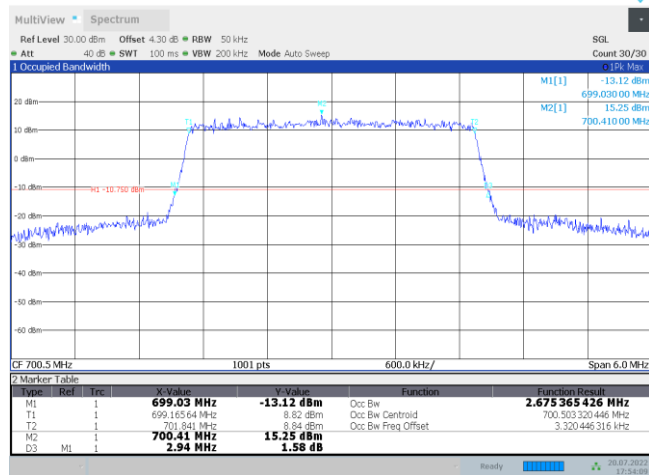
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Band12-3MHz-16QAM-23165-15RB#0



17:55:28 20.07.2022

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



17:54:10 20.07.2022



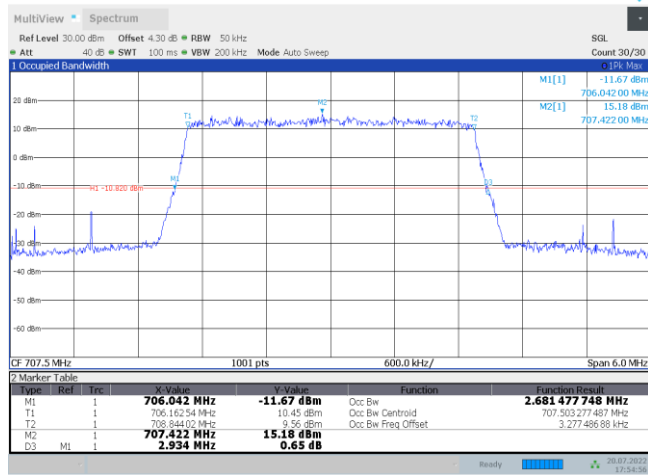
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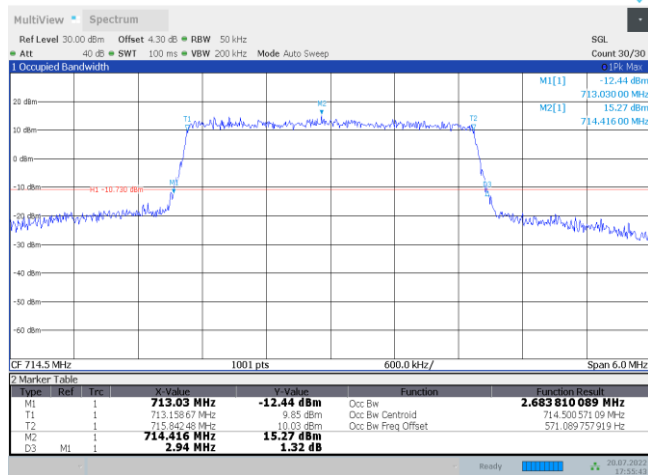
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Band12-3MHz-64QAM-23095-15RB#0



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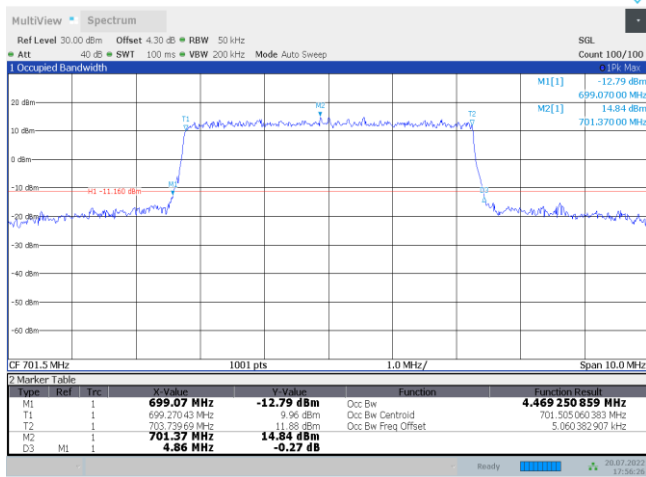
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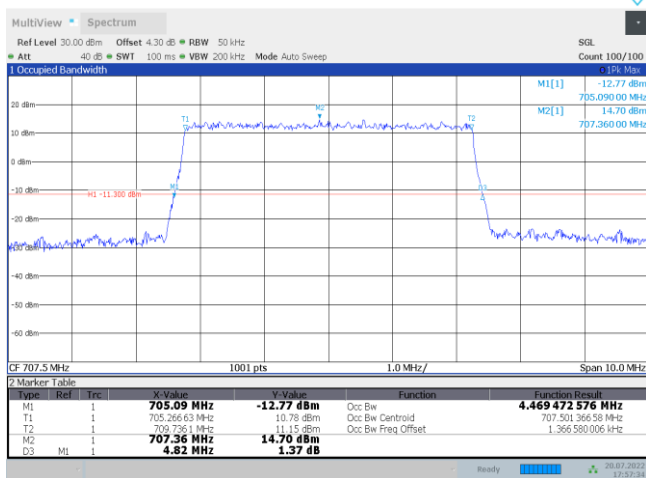
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Band12-5MHz-QPSK-23035-25RB#0



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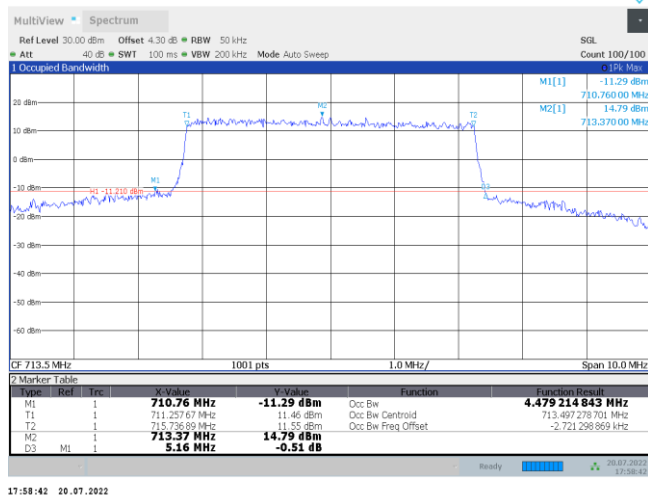


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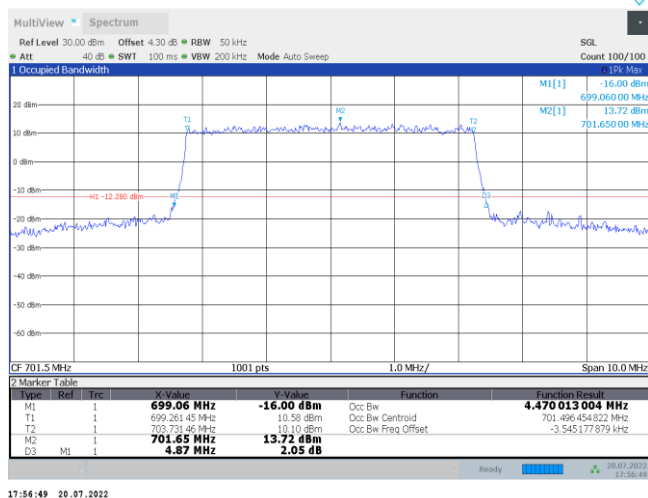


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Band12-5MHz-QPSK-23155-25RB#0

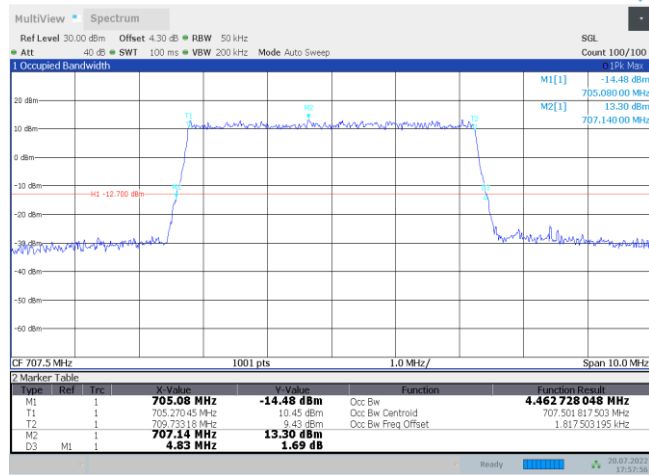


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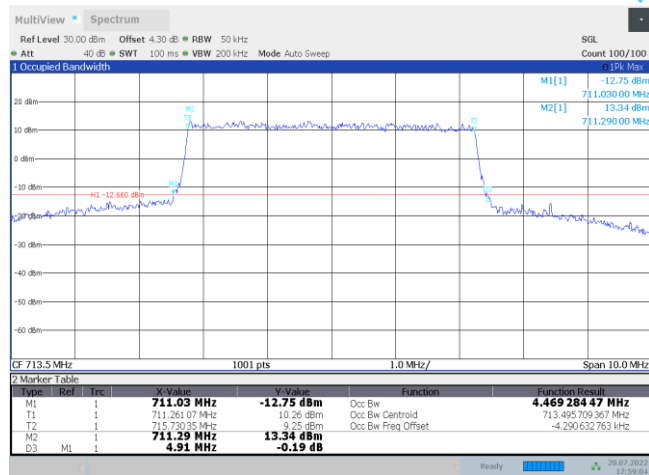
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Band12-5MHz-16QAM-23095-25RB#0



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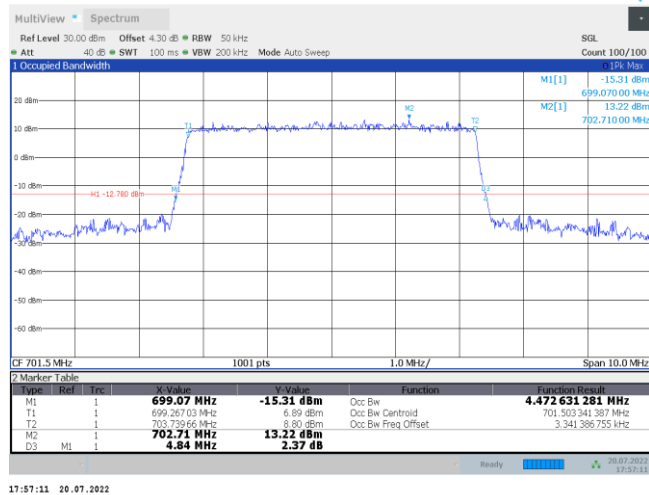
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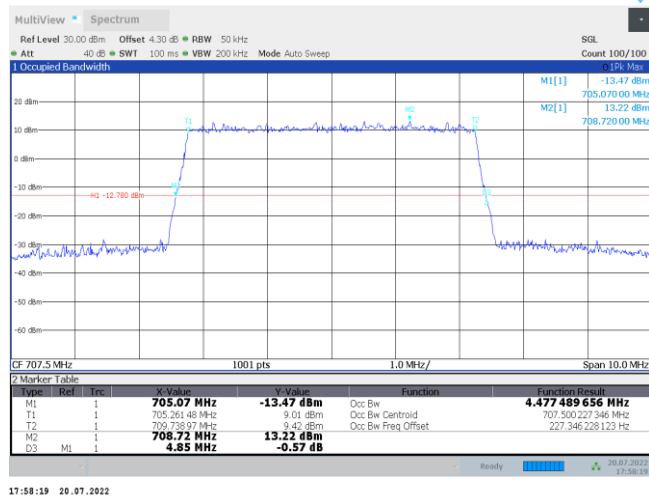
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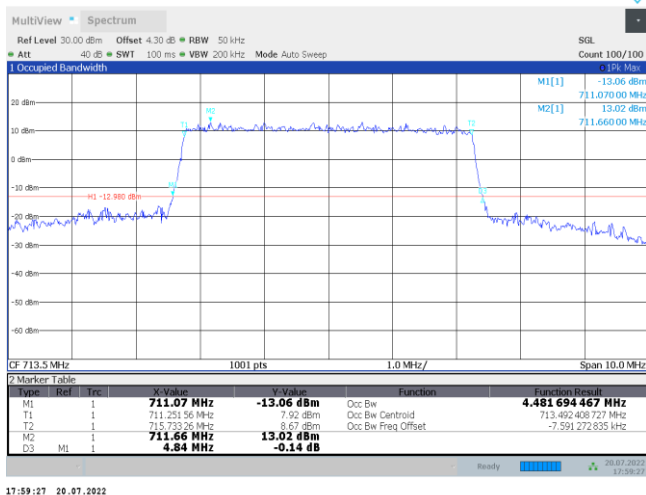


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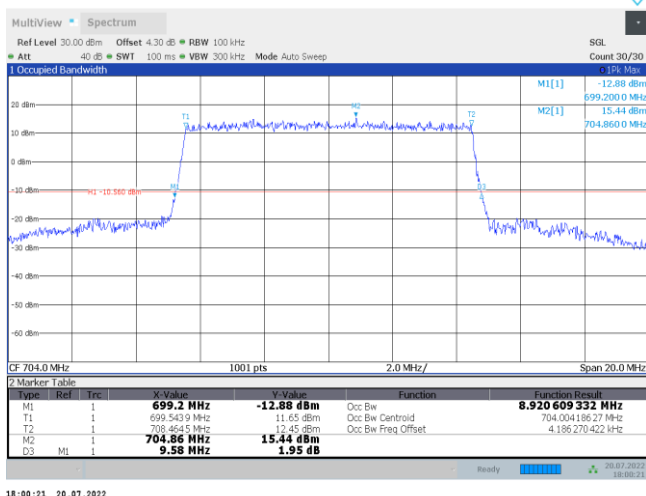
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Band12-5MHz-64QAM-23155-25RB#0



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

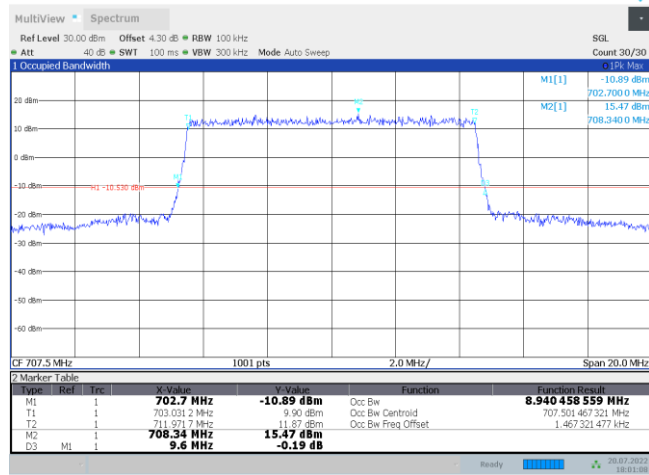


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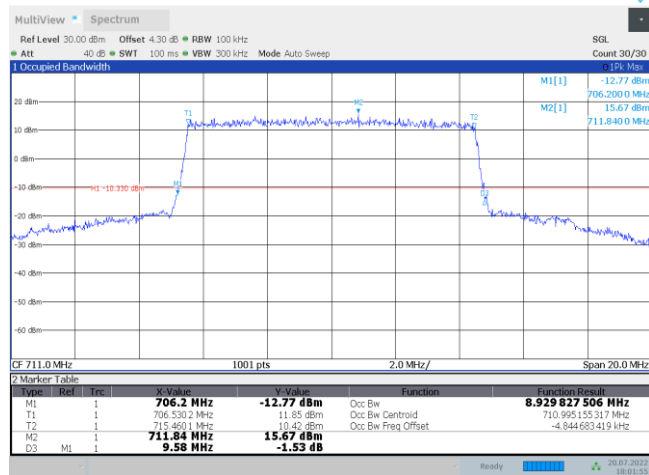
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Band12-10MHz-QPSK-23095-50RB#0



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



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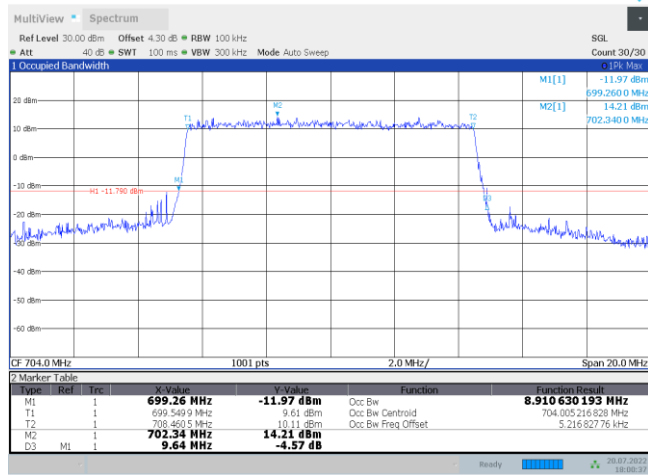


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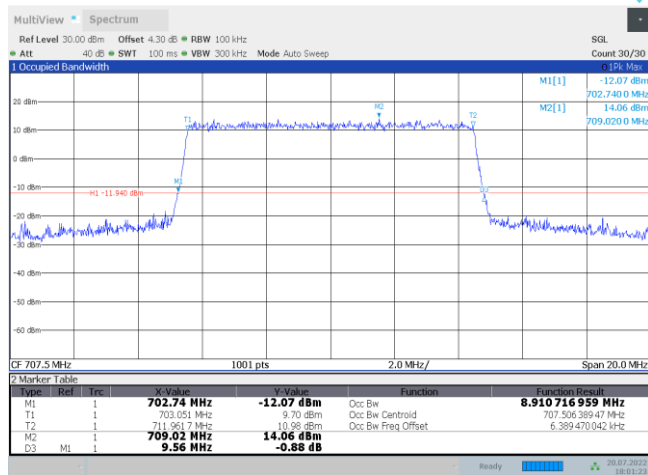
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Band12-10MHz-16QAM-23060-50RB#0



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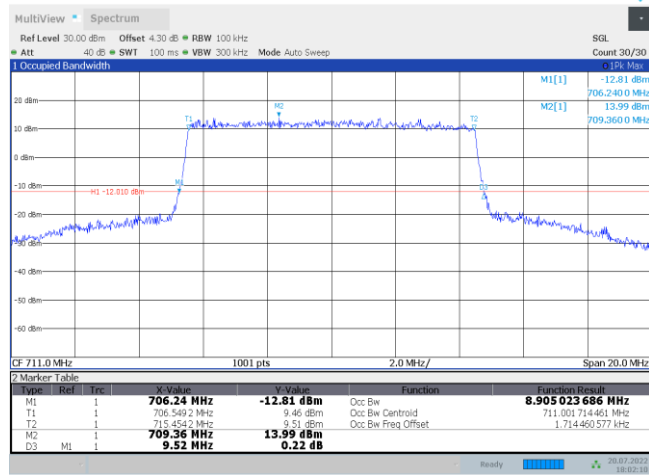


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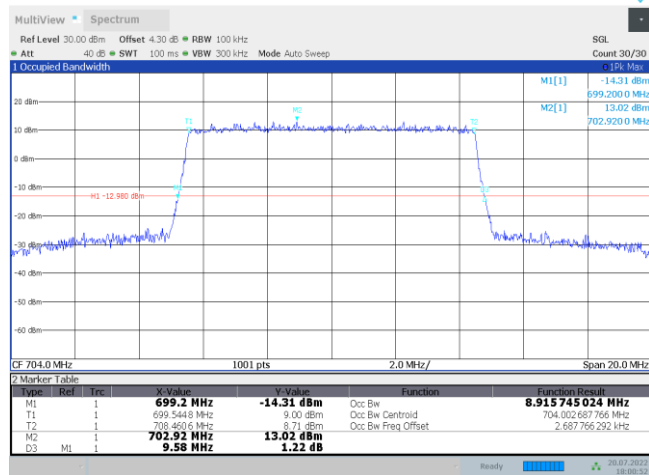


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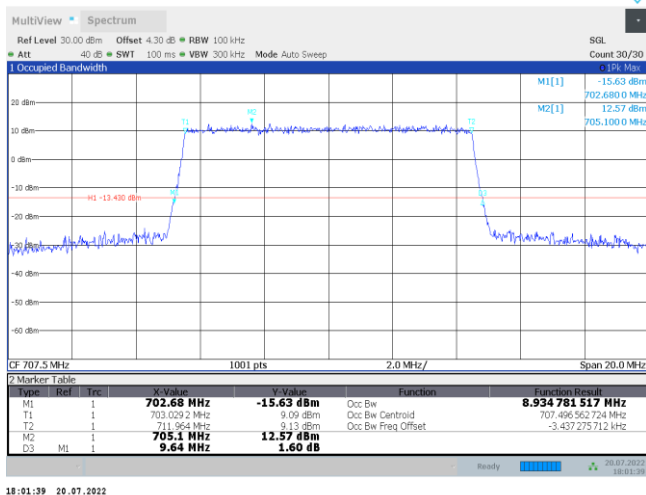


Band12-10MHz-64QAM-23060-50RB#0

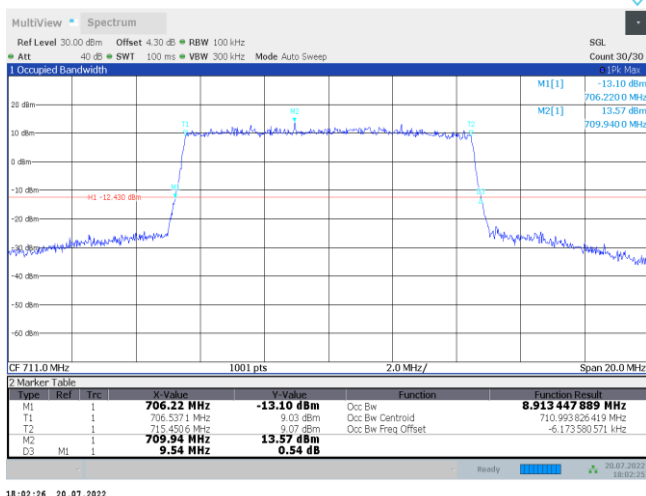


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Band12-10MHz-64QAM-23095-50RB#0



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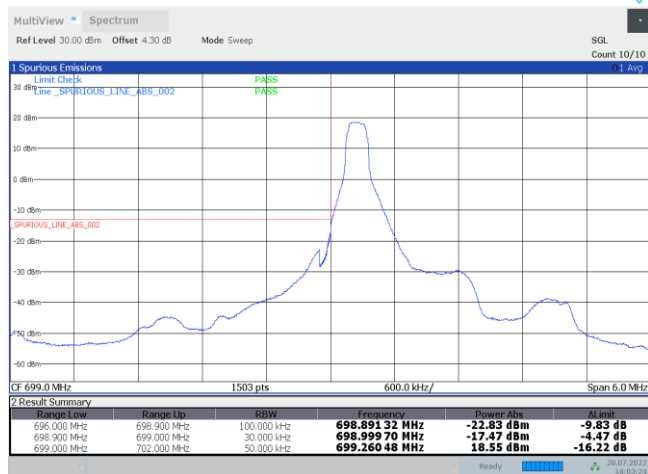


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Band Edge

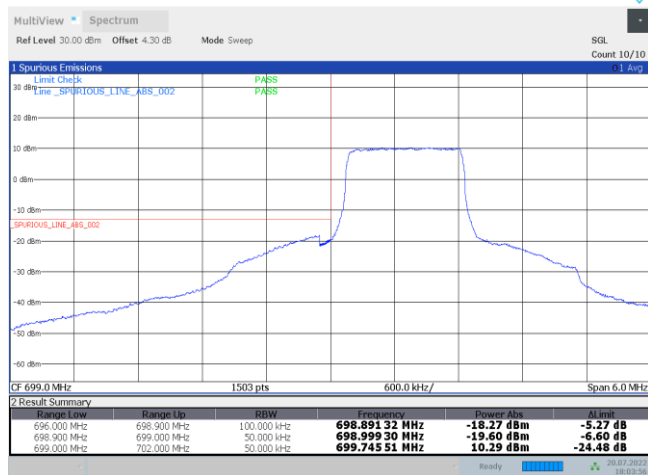
Test Graphs

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



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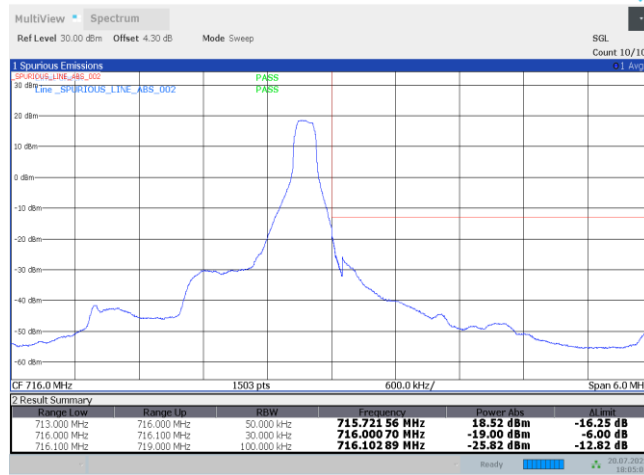


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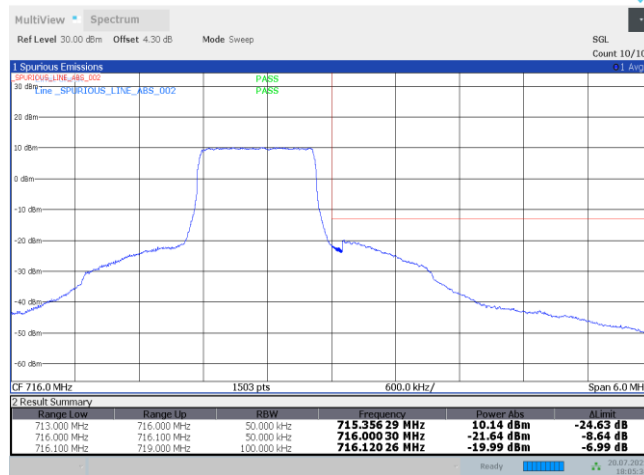
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Band12-1.4MHz-QPSK-23173-1RB#5



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



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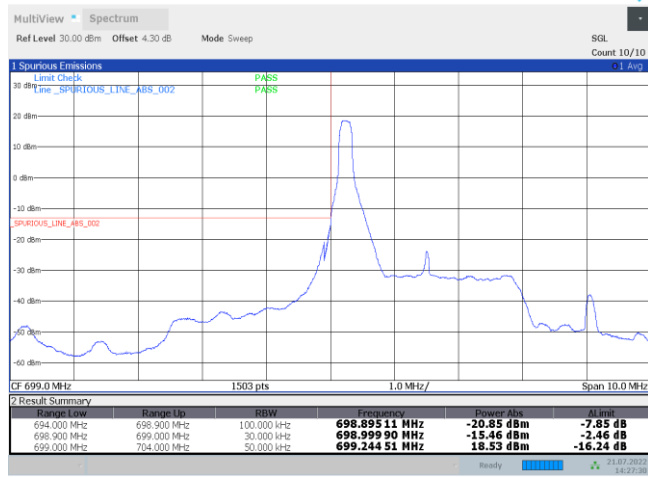
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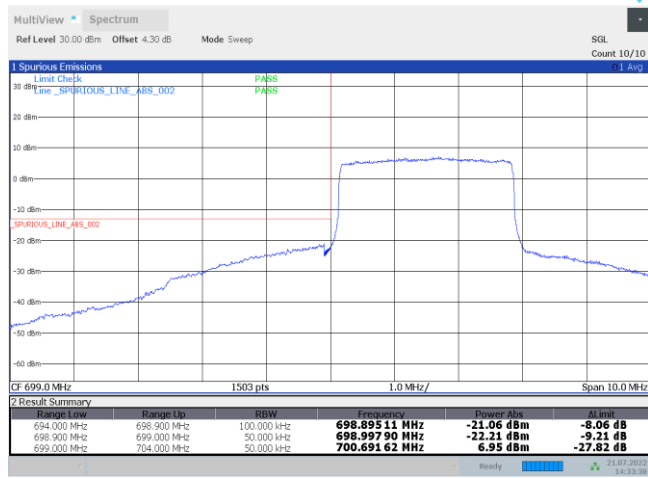
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Band12-3MHz-QPSK-23025-1RB#0



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

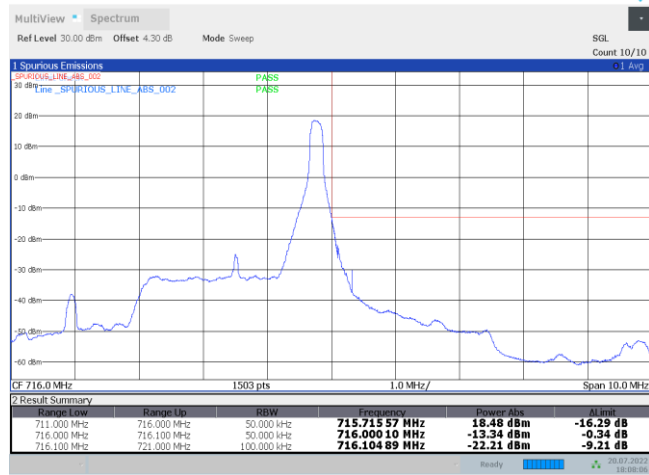


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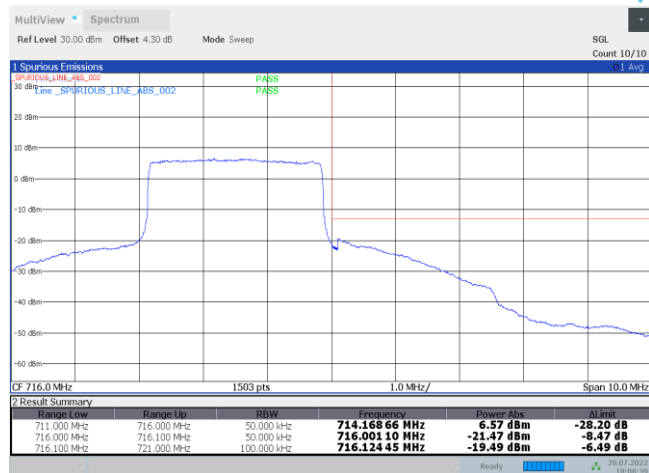
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Band12-3MHz-QPSK-23165-1RB#14



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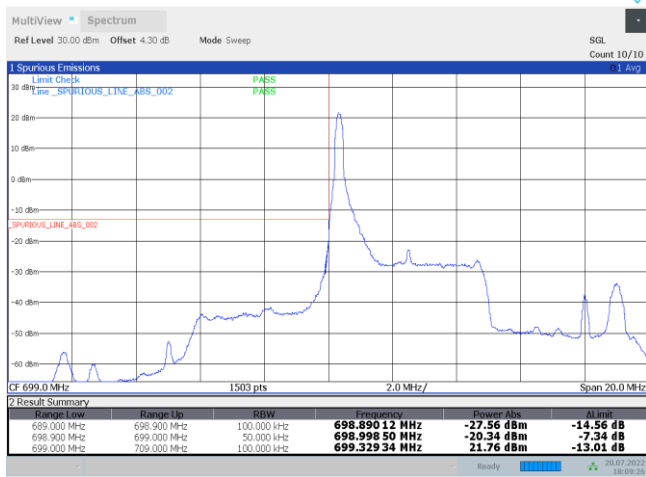
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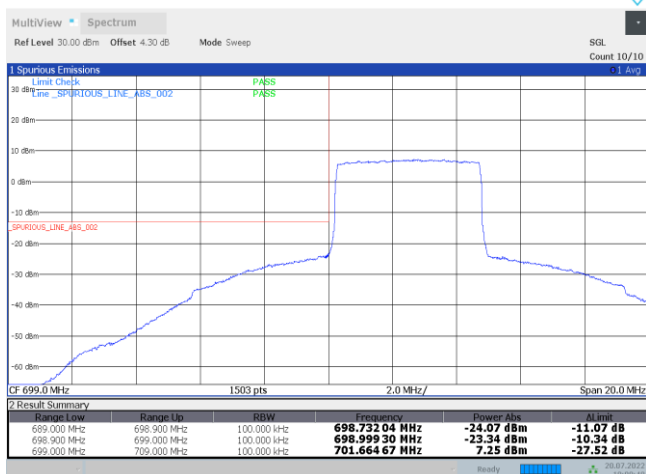
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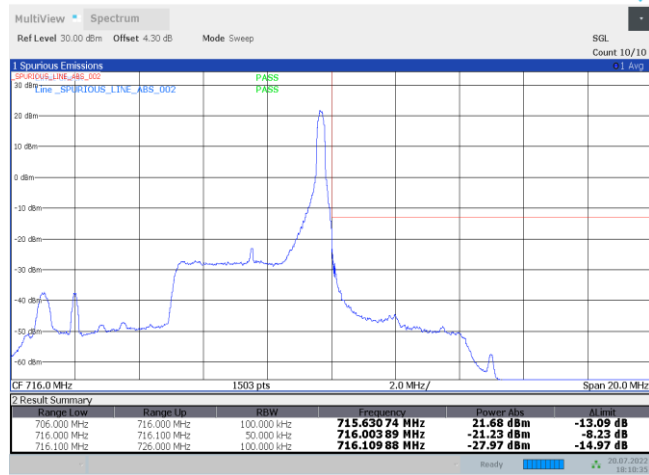


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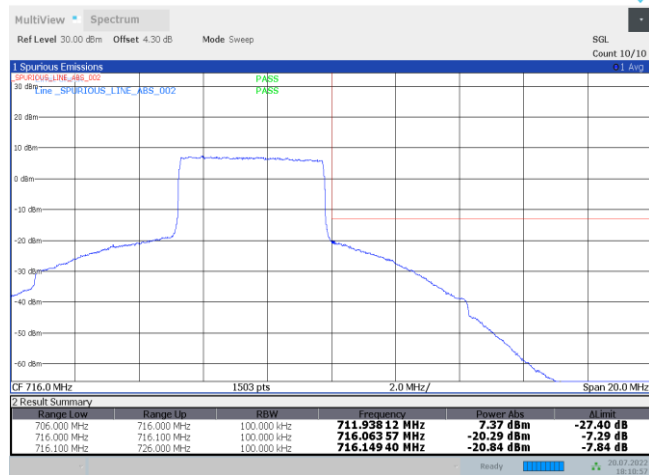
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Band12-5MHz-QPSK-23155-1RB#24



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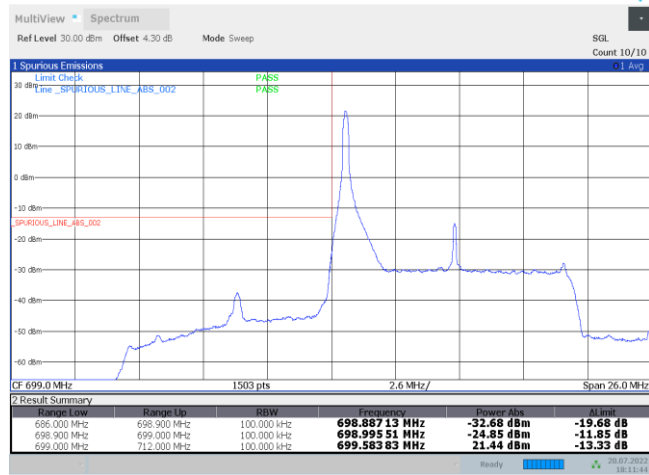
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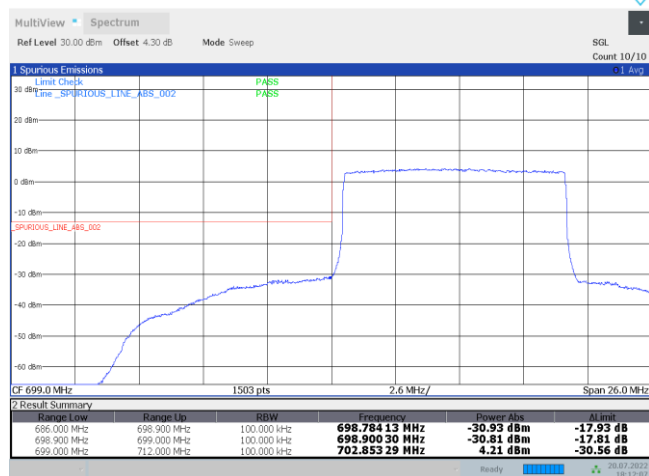
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Band12-10MHz-QPSK-23060-1RB#0



18:11:45 20.07.2022

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

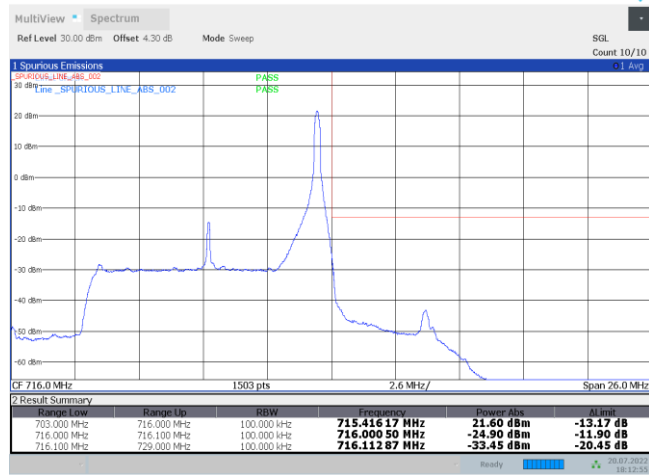


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Band12-10MHz-QPSK-23130-1RB#49



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



18:13:19 20.07.2022



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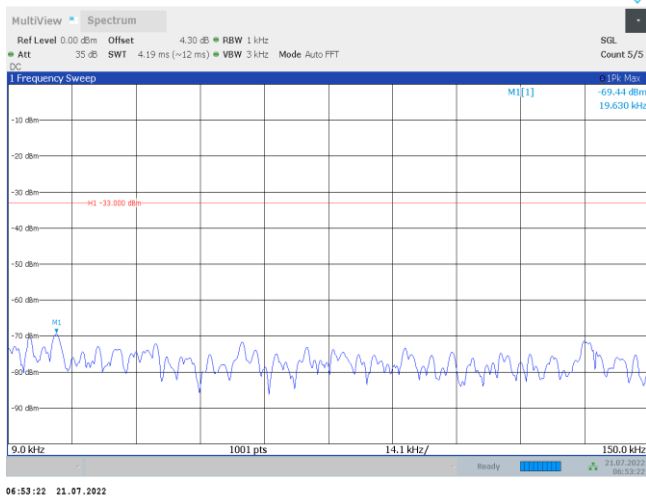
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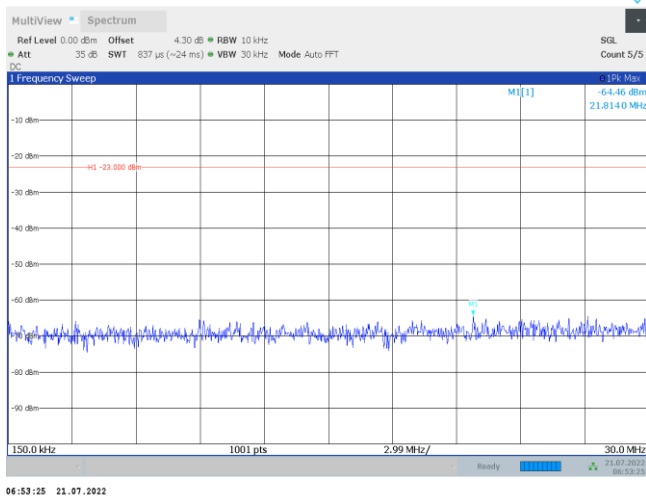
Conducted Spurious Emission

Test Graphs

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

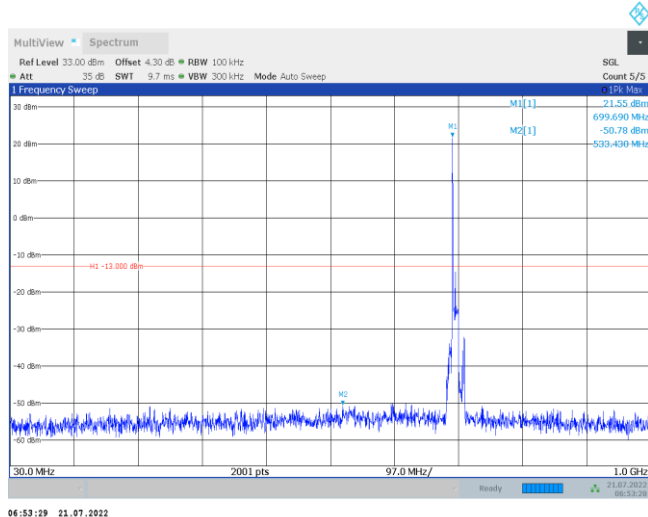


Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



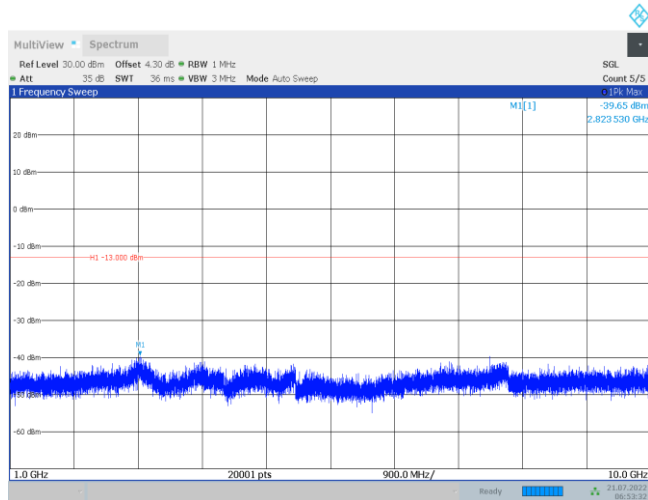
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



06:53:29 21.07.2022

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

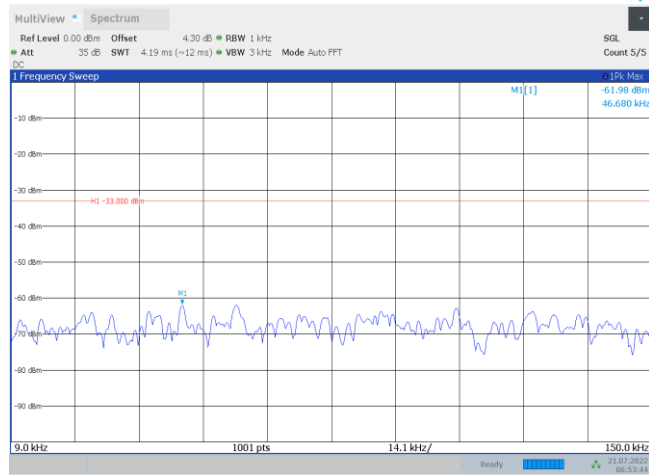


06:53:32 21.07.2022



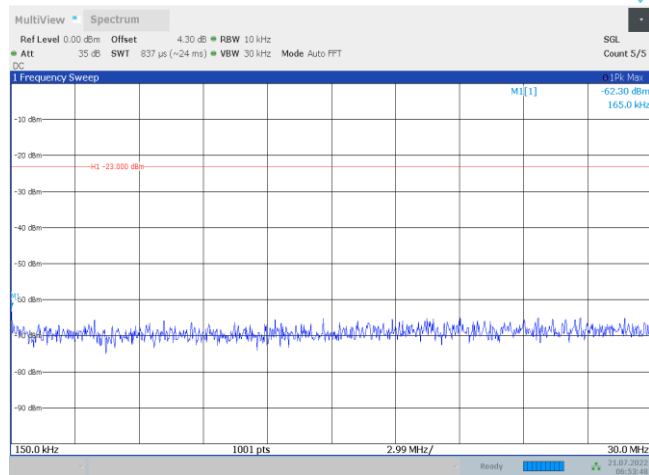
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



06:53:45 21.07.2022

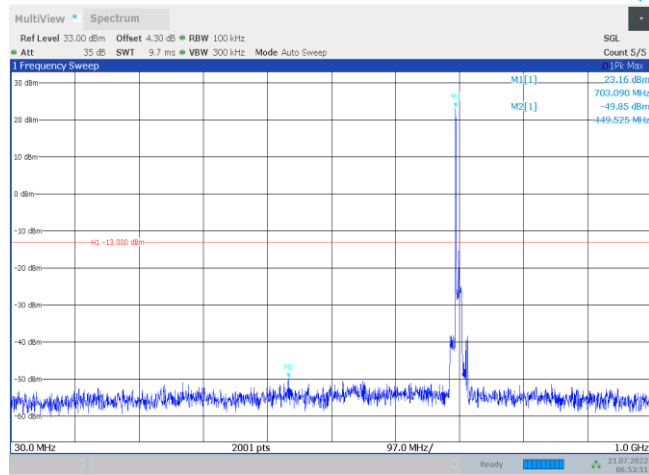
Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



06:53:48 21.07.2022

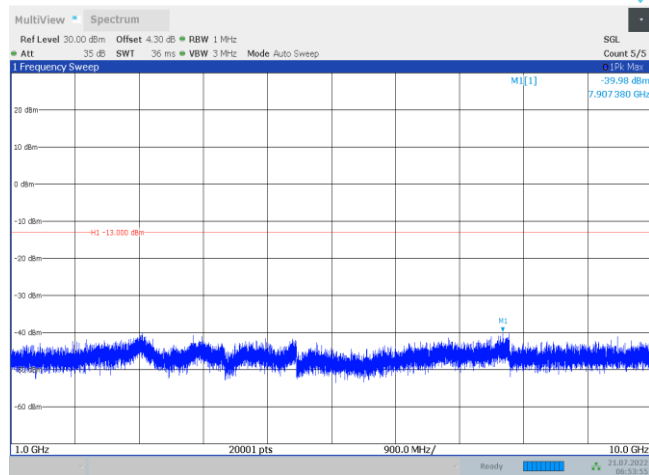


Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



06:53:52 21.07.2022

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



06:53:55 21.07.2022



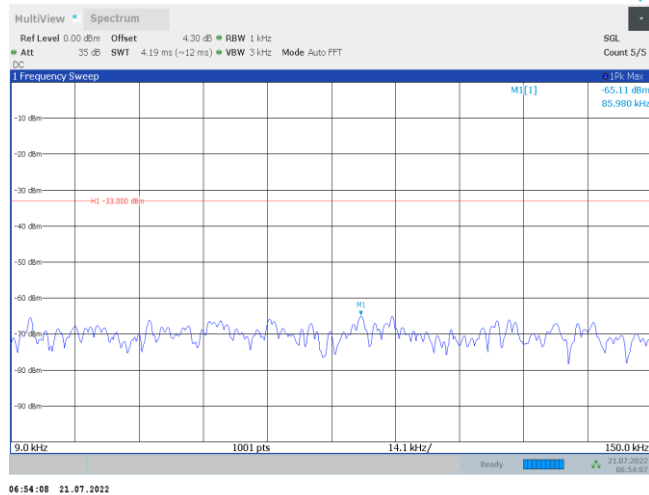
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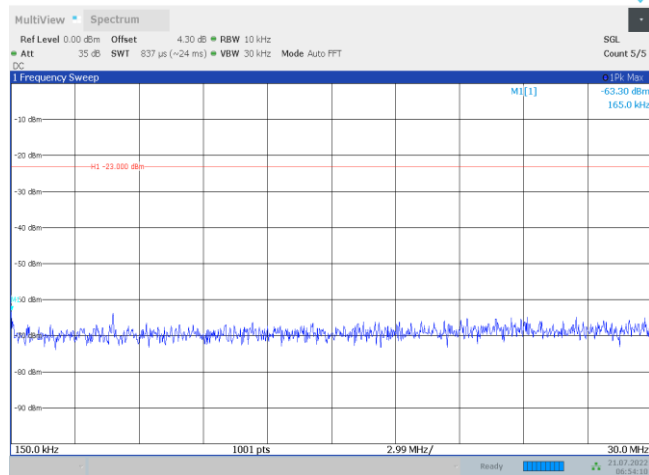
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



06:54:08 21.07.2022

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



06:54:11 21.07.2022

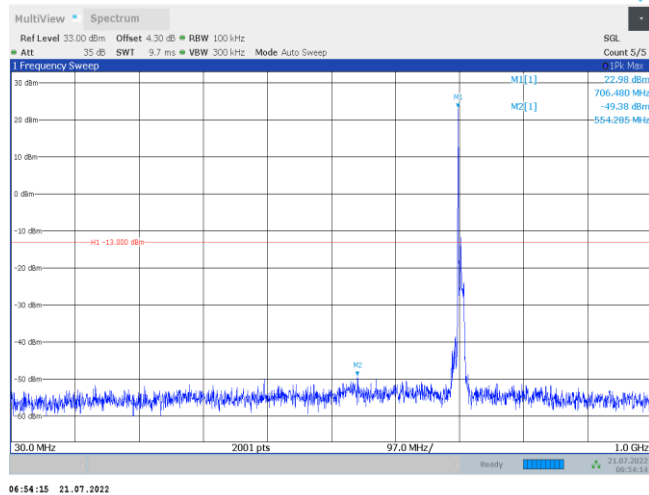


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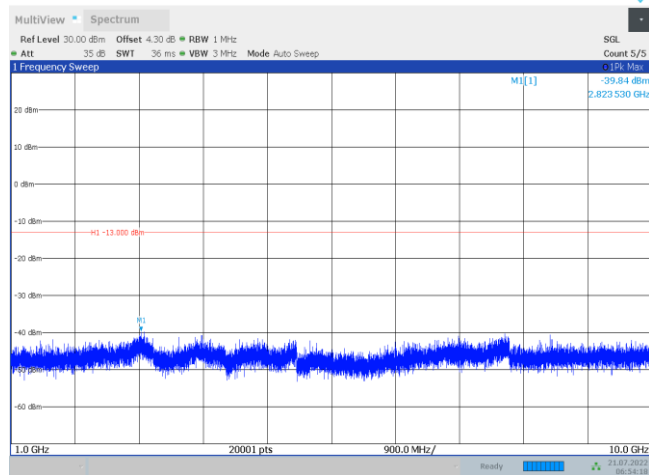
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



06:54:15 21.07.2022

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



06:54:18 21.07.2022



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Field Strength of Spurious Radiation

For Sample #1:

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	60.37	-48.00	25.62	-57.27	-13.00	44.27	165	334	Horizontal
2	2098.7700	55.98	-47.71	26.99	-60.01	-13.00	47.01	148	283	Horizontal
3	2798.3600	58.02	-46.92	28.48	-55.68	-13.00	42.68	195	3	Horizontal
4	3497.9500	62.73	-46.54	29.52	-49.55	-13.00	36.55	122	0	Horizontal
5	4197.5400	50.78	-45.96	31.10	-59.34	-13.00	46.34	177	3	Horizontal
6	4897.1300	50.75	-45.58	32.59	-57.50	-13.00	44.50	196	322	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	56.19	-48.00	25.62	-61.45	-13.00	48.45	145	50	Vertical
2	2098.7700	58.32	-47.71	26.99	-57.67	-13.00	44.67	168	359	Vertical
3	2798.3600	52.93	-46.92	28.48	-60.77	-13.00	47.77	194	3	Vertical
4	3497.9500	54.86	-46.54	29.52	-57.42	-13.00	44.42	175	38	Vertical
5	4197.5400	48.49	-45.96	31.10	-61.63	-13.00	48.63	133	238	Vertical
6	4897.1300	50.32	-45.58	32.59	-57.93	-13.00	44.93	211	290	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	58.54	-48.02	25.61	-59.13	-13.00	46.13	126	83	Horizontal
2	2109.2700	54.81	-47.71	27.02	-61.13	-13.00	48.13	214	239	Horizontal
3	2812.3600	60.13	-46.88	28.53	-53.47	-13.00	40.47	185	4	Horizontal
4	3515.4286	63.29	-46.51	29.53	-48.95	-13.00	35.95	143	9	Horizontal
5	4218.5400	53.67	-45.93	31.14	-56.38	-13.00	43.38	299	16	Horizontal
6	4921.6300	50.16	-45.63	32.66	-58.07	-13.00	45.07	111	121	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	55.78	-48.02	25.61	-61.89	-13.00	48.89	216	304	Vertical
2	2109.2700	52.55	-47.71	27.02	-63.39	-13.00	50.39	233	198	Vertical
3	2812.3600	55.65	-46.88	28.53	-57.95	-13.00	44.95	162	360	Vertical
4	3515.4500	51.60	-46.51	29.53	-60.63	-13.00	47.63	175	277	Vertical
5	4218.5400	50.06	-45.93	31.14	-59.99	-13.00	46.99	199	330	Vertical
6	4921.6300	50.19	-45.63	32.66	-58.04	-13.00	45.04	201	51	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	63.05	-48.04	25.60	-54.65	-13.00	41.65	122	42	Horizontal
2	2119.7700	58.32	-47.70	27.06	-57.58	-13.00	44.58	251	9	Horizontal
3	2826.3600	55.10	-46.83	28.60	-58.39	-13.00	45.39	145	59	Horizontal
4	3532.9500	59.78	-46.47	29.55	-52.40	-13.00	39.40	196	46	Horizontal
5	4239.5400	50.40	-45.89	31.18	-59.57	-13.00	46.57	175	122	Horizontal
6	4946.1300	48.72	-45.69	32.73	-59.50	-13.00	46.50	142	133	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	57.03	-48.04	25.60	-60.67	-13.00	47.67	169	359	Vertical
2	2119.7700	60.49	-47.70	27.06	-55.41	-13.00	42.41	214	360	Vertical
3	2826.3600	52.75	-46.83	28.60	-60.74	-13.00	47.74	136	172	Vertical
4	3532.9500	52.31	-46.47	29.55	-59.87	-13.00	46.87	211	198	Vertical
5	4239.5400	50.39	-45.89	31.18	-59.58	-13.00	46.58	152	133	Vertical
6	4946.1300	49.66	-45.69	32.73	-58.56	-13.00	45.56	197	356	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + AF(dB/m) + Factor(dB):

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

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV - 95.26



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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	-3.30	-0.004664	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-3.90	-0.005512	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-3.00	-0.004240	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-2.50	-0.003534	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-1.10	-0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-2.20	-0.003110	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-4.40	-0.006219	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-1.30	-0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-4.60	-0.006502	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-5.50	-0.007774	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-3.40	-0.004806	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.20	-0.001696	PASS

---End of Attachment---



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