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Appendix B.5

LTE Band 12



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t (86-512) 62992980 www.sgs.com.cn
t (86-512) 62992980 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	22.63	18.18	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.75	18.3	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.58	18.13	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.76	17.31	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.71	18.26	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.9	18.45	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.82	18.37	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.85	17.4	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.65	18.2	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.65	18.2	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.72	18.27	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.73	17.28	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.14	17.69	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.95	17.5	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.94	17.49	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.68	16.23	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.03	17.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.21	17.76	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.98	17.53	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.87	16.42	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.24	17.79	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.07	17.62	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.17	17.72	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.84	16.39	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.07	16.62	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	20.93	16.48	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	20.86	16.41	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	19.75	15.3	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.94	16.49	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	20.94	16.49	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.98	16.53	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.6	15.15	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.91	16.46	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	20.94	16.49	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.04	16.59	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.74	15.29	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.89	18.44	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.75	18.3	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.68	18.23	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.83	17.38	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.76	18.31	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.84	18.39	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.72	18.27	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.81	17.36	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.78	18.33	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.67	18.22	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.77	18.32	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.85	17.4	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.24	17.79	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.23	17.78	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.95	17.5	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.79	16.34	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.07	17.62	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.26	17.81	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.02	17.57	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.94	16.49	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.08	17.63	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.42	17.97	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.11	17.66	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	20.9	16.45	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	20.95	16.5	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	20.96	16.51	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	20.98	16.53	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.85	15.4	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	20.93	16.48	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.18	16.73	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.16	16.71	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.88	15.43	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.85	16.4	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.05	16.6	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.9	16.45	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.8	15.35	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.81	18.36	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.94	18.49	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.7	18.25	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.87	17.42	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.78	18.33	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.87	18.42	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.71	18.26	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.75	17.3	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.76	18.31	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.74	18.29	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.77	18.32	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.76	17.31	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.04	17.59	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.22	17.77	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.18	17.73	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.88	16.43	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.22	17.77	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.22	17.77	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.17	17.72	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	20.85	16.4	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.04	17.59	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.09	17.64	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.06	17.61	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.7	16.25	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.02	16.57	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	20.91	16.46	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.99	16.54	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.79	15.34	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.95	16.5	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	20.87	16.42	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.04	16.59	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.86	15.41	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.79	16.34	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.02	16.57	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.77	16.32	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.85	15.4	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.78	18.33	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.78	18.33	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.6	18.15	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.94	17.49	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.85	18.4	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.65	18.2	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.8	18.35	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.89	17.44	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.05	18.6	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.76	18.31	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.63	18.18	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.84	17.39	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.16	17.71	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.11	17.66	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.04	17.59	34.77	PASS



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Band12	10MHz	16QAM	23095	1RB#0	22.2	17.75	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.04	17.59	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.18	17.73	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.88	16.43	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.14	17.69	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.04	17.59	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.88	17.43	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.8	16.35	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.15	16.7	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21	16.55	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.1	16.65	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.88	15.43	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.12	16.67	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	20.95	16.5	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.1	16.65	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.91	15.46	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.1	16.65	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.01	16.56	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.07	16.62	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.8	15.35	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	5.34	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.12	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.28	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.10	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.96	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.02	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.66	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.52	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.54	13	PASS



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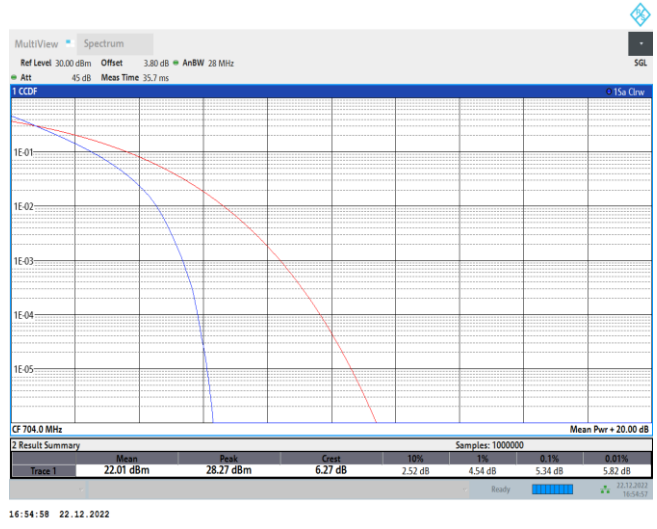
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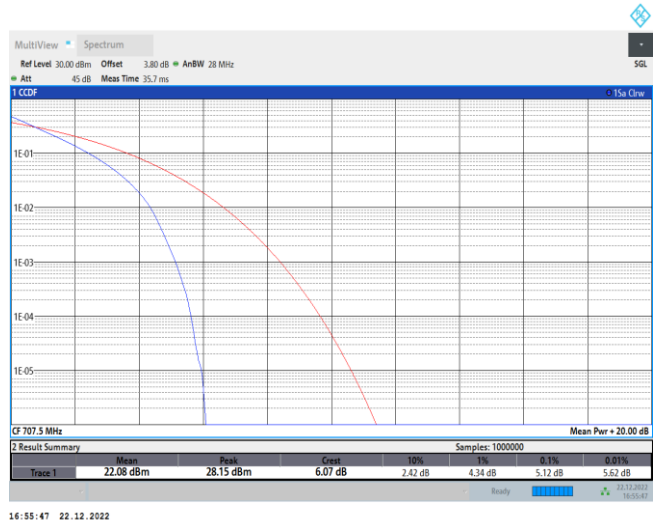
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Test Graphs

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



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

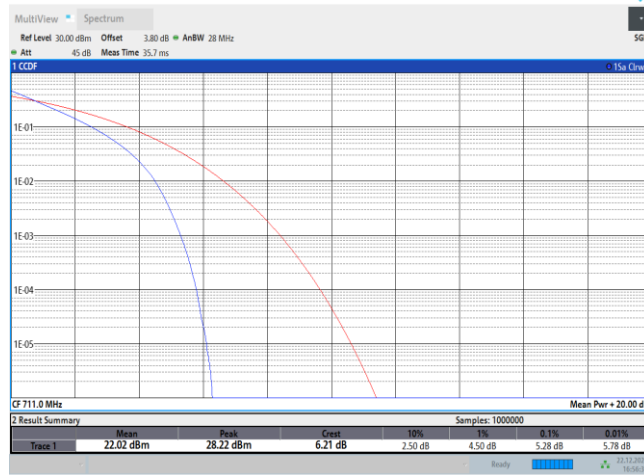


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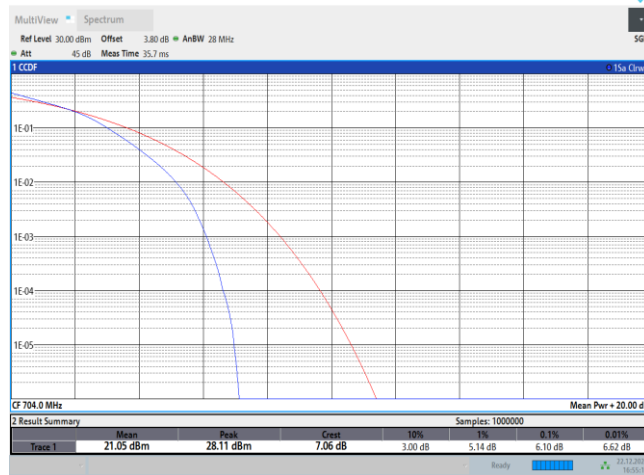
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Band12-10MHz-QPSK-23130-50RB#0



16:56:36 22.12.2022

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



16:55:14 22.12.2022

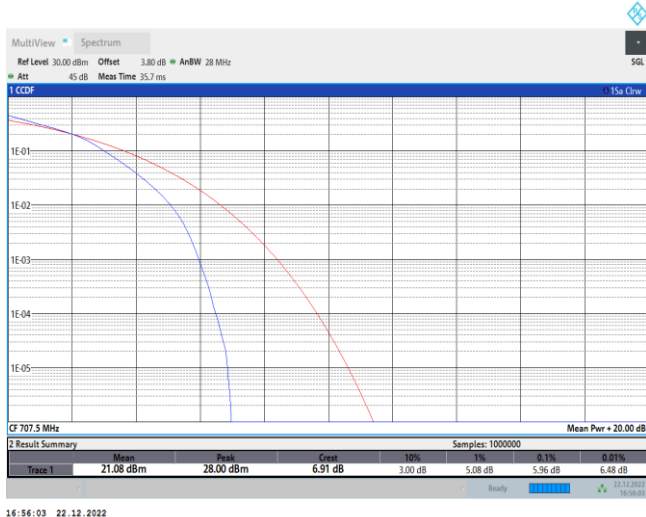


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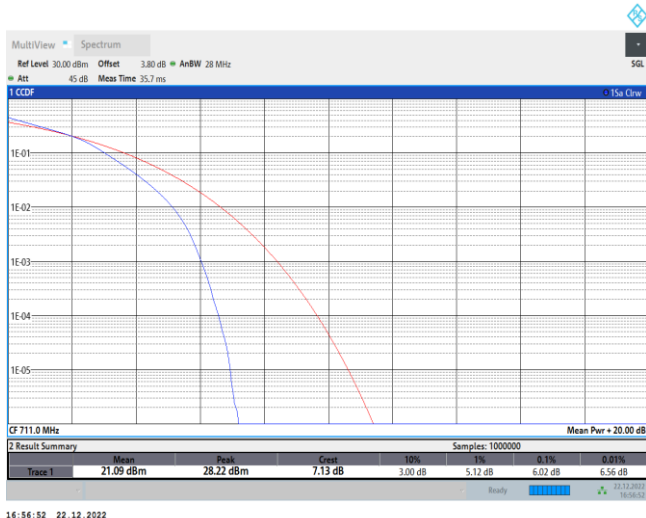
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Band12-10MHz-16QAM-23095-50RB#0



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

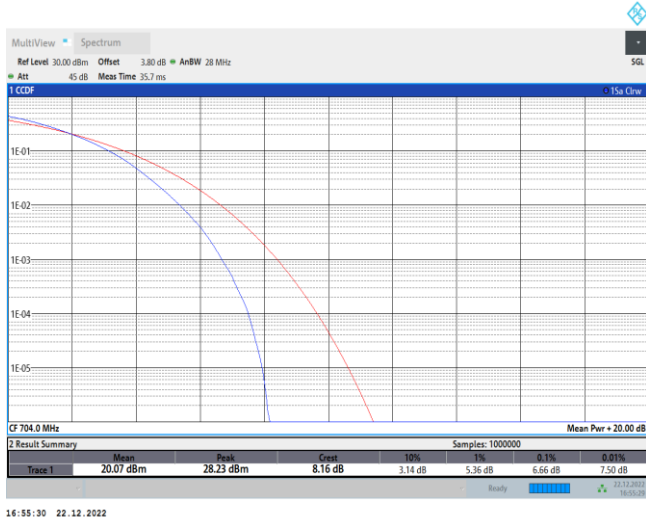


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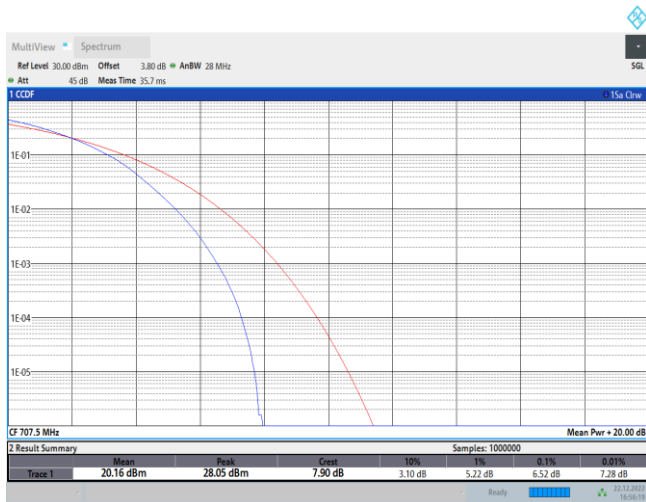
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Band12-10MHz-64QAM-23060-50RB#0



16:55:30 22.12.2022

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



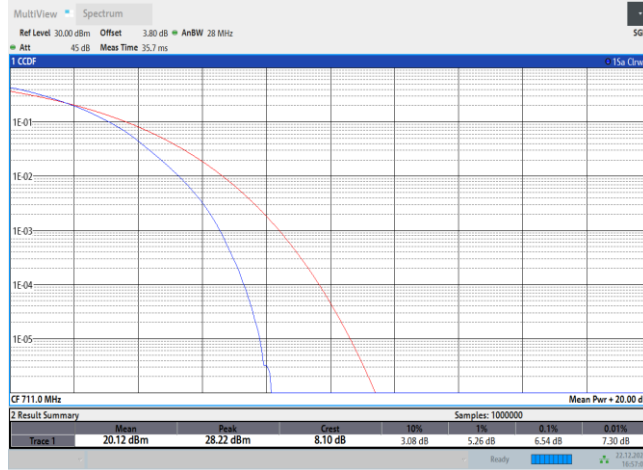
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Band12-10MHz-64QAM-23130-50RB#0



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Report No.: SEWM2212000312RG01

Rev.: 01

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Modulation Characteristics

Test Result

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

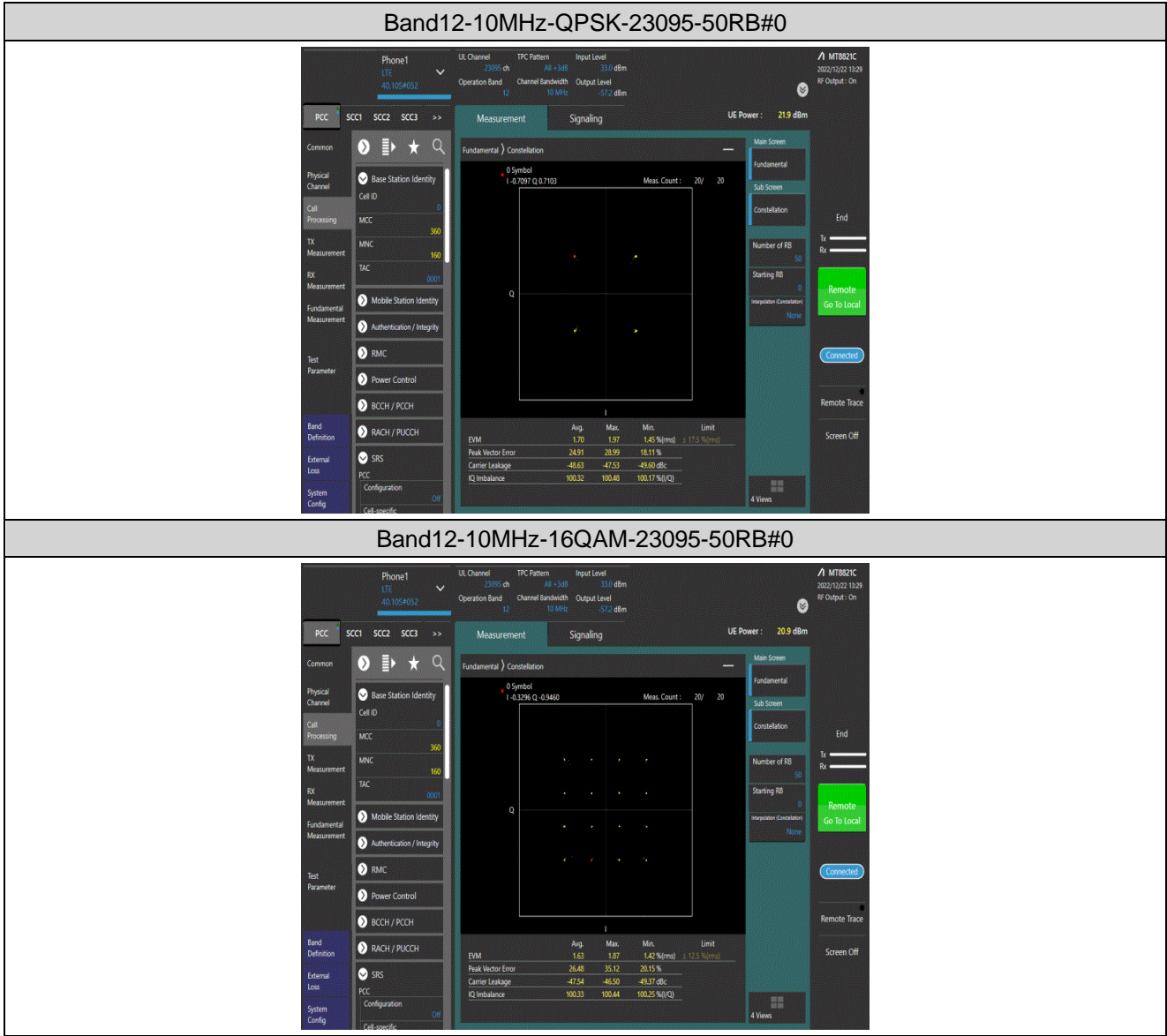


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Test Graphs

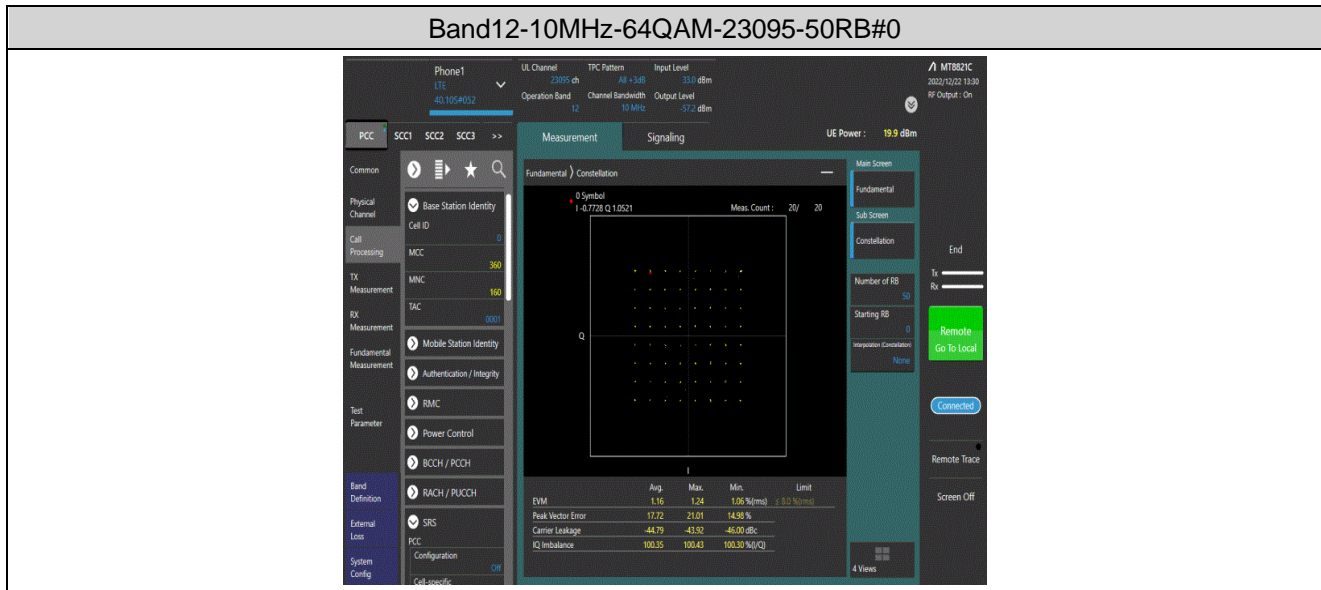


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.08	1.21	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.083	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.092	1.25	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.09	1.24	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.09	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.693	2.97	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.694	2.99	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.689	2.99	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.692	2.99	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.687	2.98	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.687	3.00	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.687	2.96	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.688	2.97	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.687	2.96	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.475	4.91	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.469	4.88	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.471	4.89	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.467	4.92	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.467	4.90	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.47	4.91	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.481	4.90	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.47	4.89	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.485	4.92	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.932	9.68	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.909	9.62	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.923	9.70	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.908	9.60	PASS



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Band12	10MHz	16QAM	23095	50RB#0	8.895	9.56	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.923	9.64	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.923	9.64	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.909	9.60	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.931	9.64	PASS



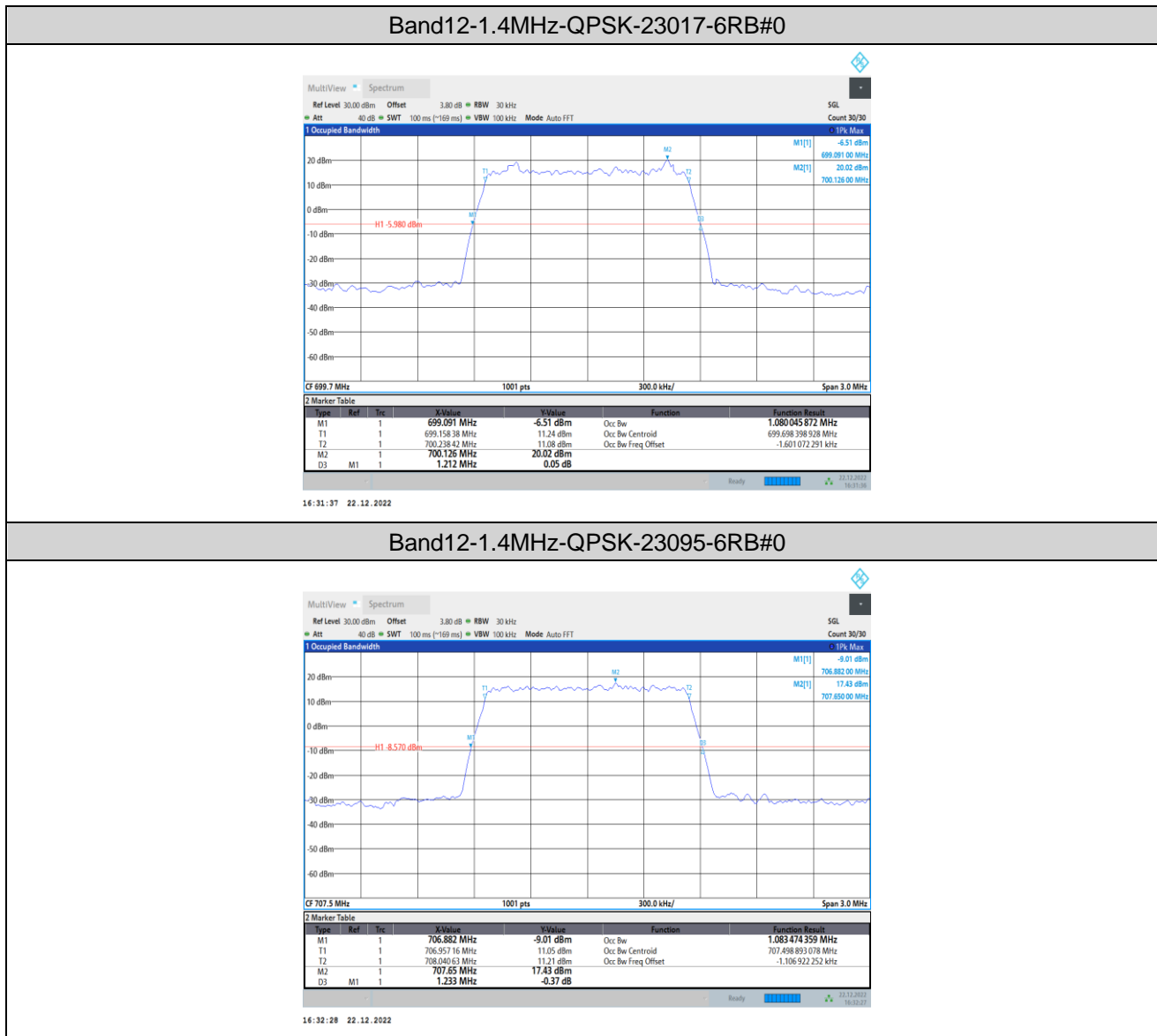
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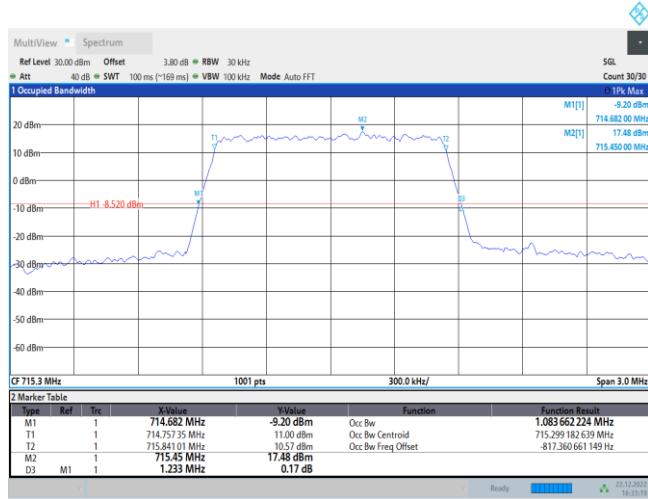


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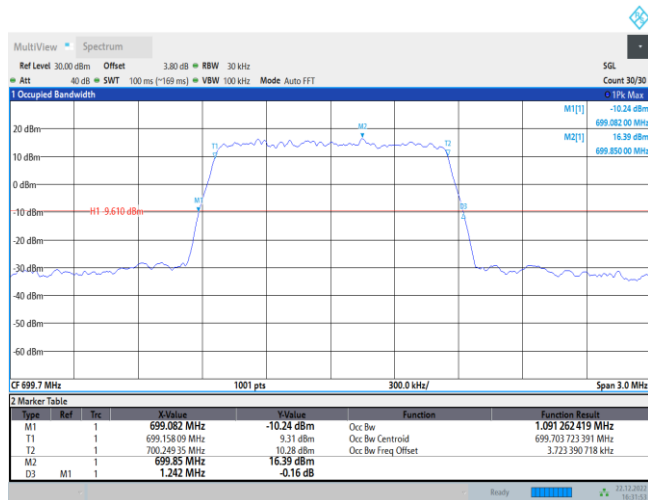
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Band12-1.4MHz-QPSK-23173-6RB#0



16:33:20 22.12.2022

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



16:31:54 22.12.2022

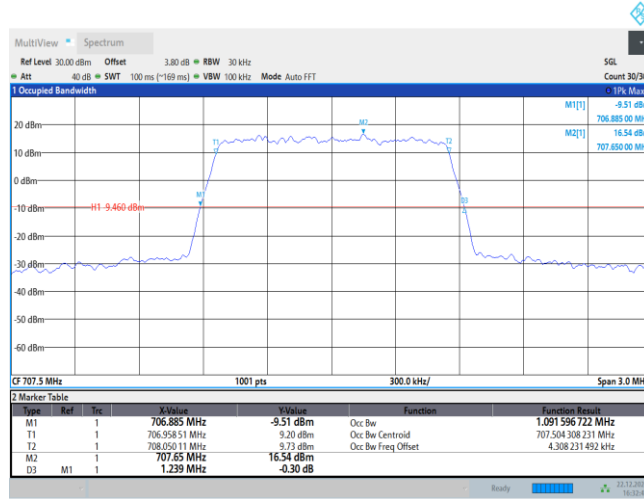


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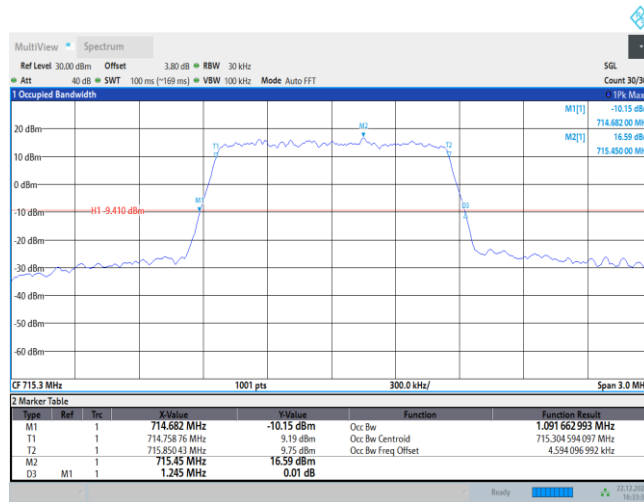
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Band12-1.4MHz-16QAM-23095-6RB#0



16:32:45 22.12.2022

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



16:33:37 22.12.2022

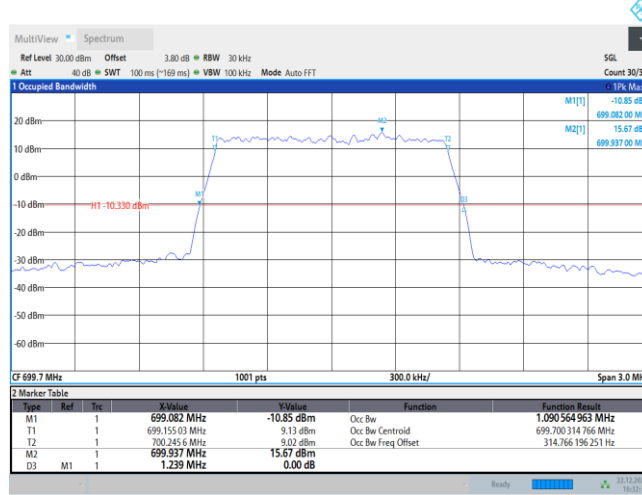


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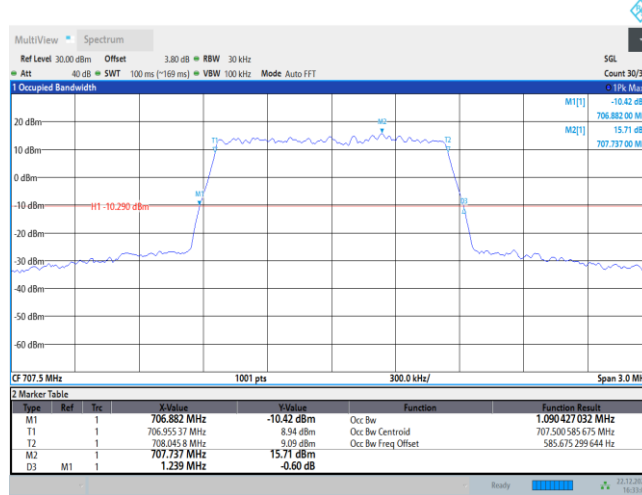
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Band12-1.4MHz-64QAM-23017-6RB#0



16:32:11 22.12.2022

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



16:33:02 22.12.2022

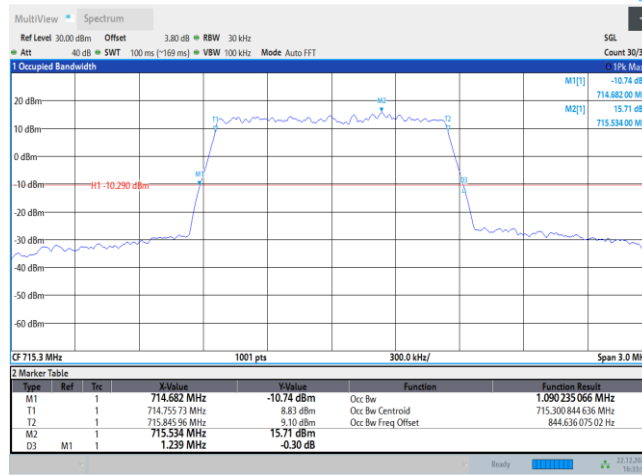


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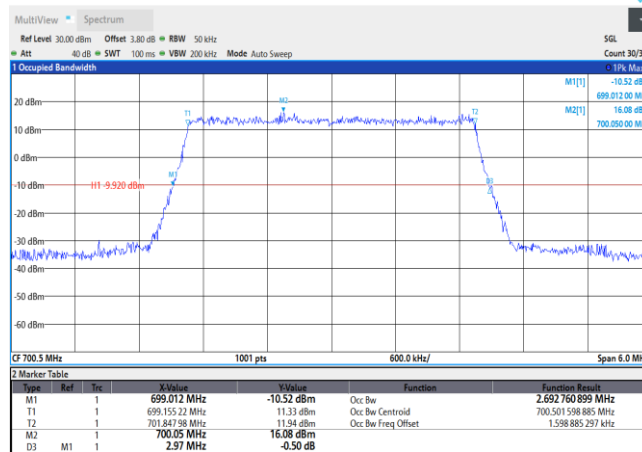
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Band12-1.4MHz-64QAM-23173-6RB#0



16:33:54 22.12.2022

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



16:34:23 22.12.2022



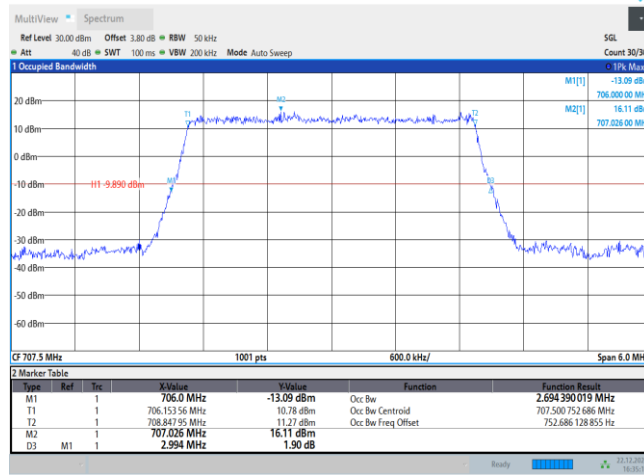
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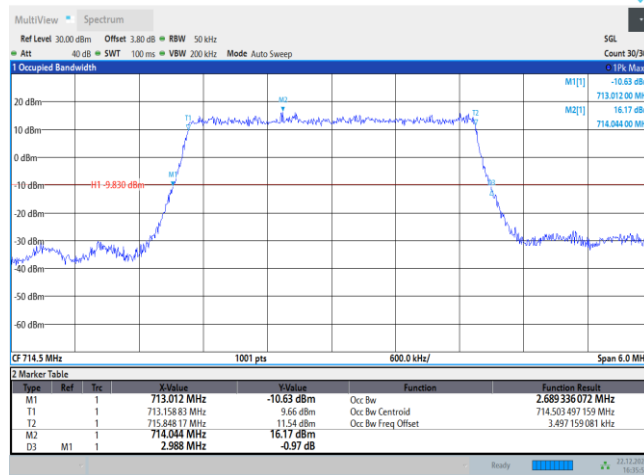
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Band12-3MHz-QPSK-23095-15RB#0



16:35:11 22.12.2022

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



16:36:00 22.12.2022

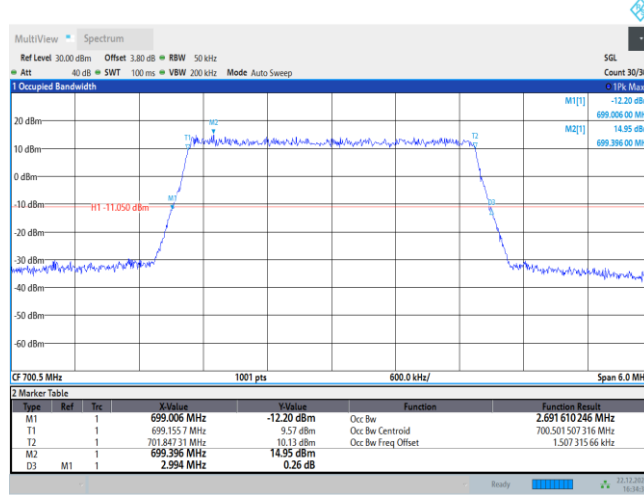


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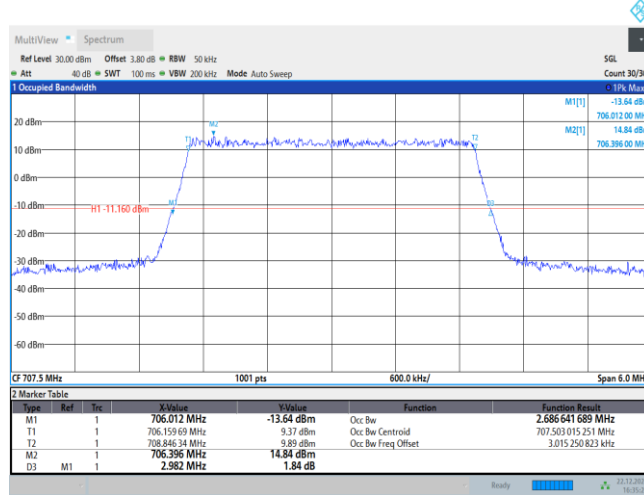
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Band12-3MHz-16QAM-23025-15RB#0



16:34:39 22.12.2022

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



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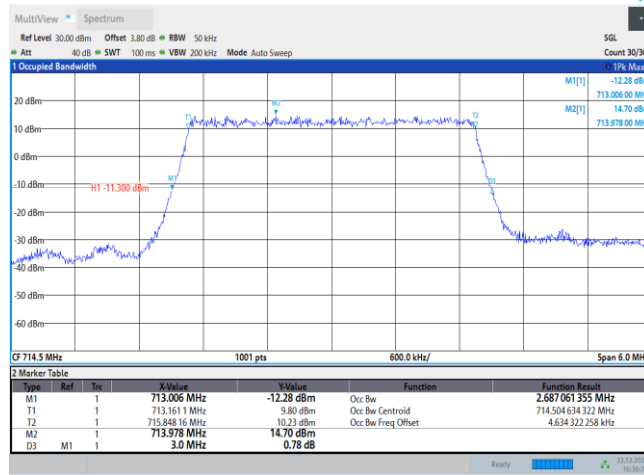


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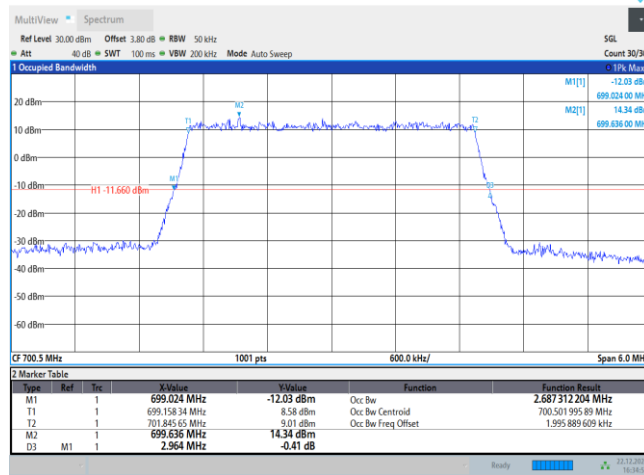
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Band12-3MHz-16QAM-23165-15RB#0



16:36:16 22.12.2022

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



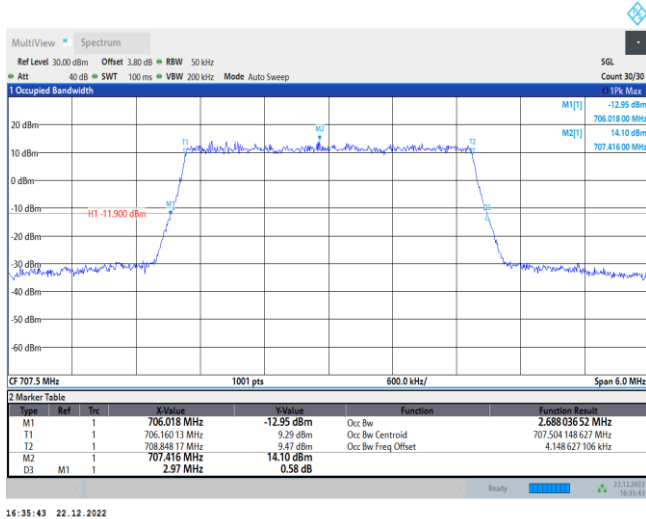
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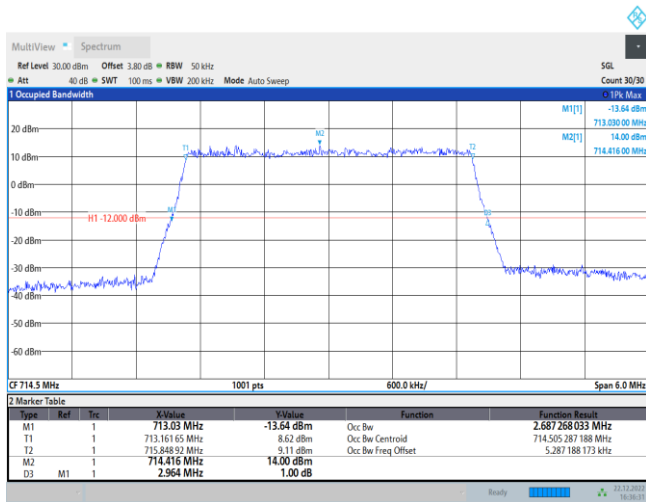
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Band12-3MHz-64QAM-23095-15RB#0



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



16:36:32 22.12.2022

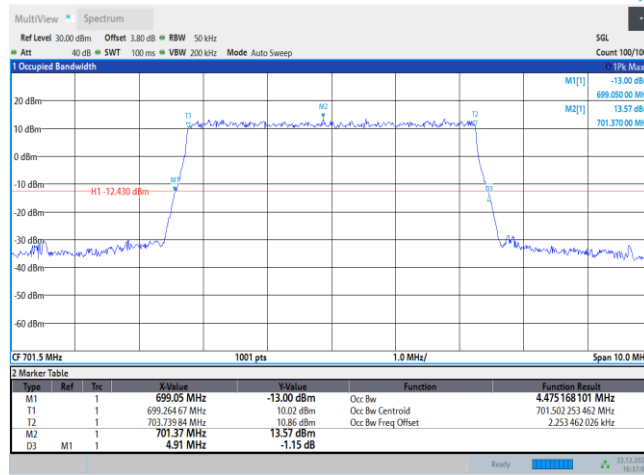


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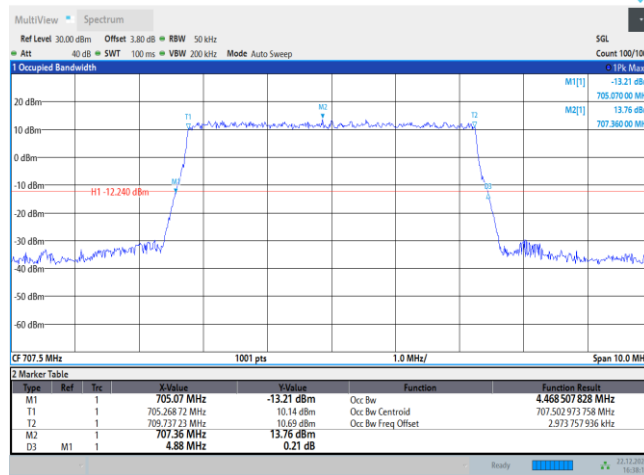
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Band12-5MHz-QPSK-23035-25RB#0



16:37:10 22.12.2022

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



16:38:19 22.12.2022



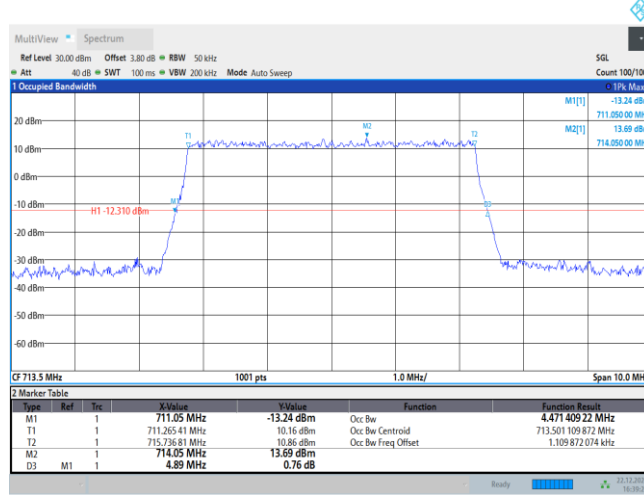
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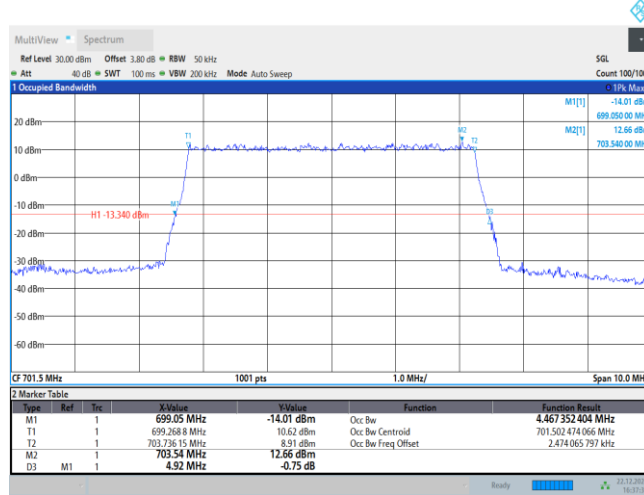
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Band12-5MHz-QPSK-23155-25RB#0



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



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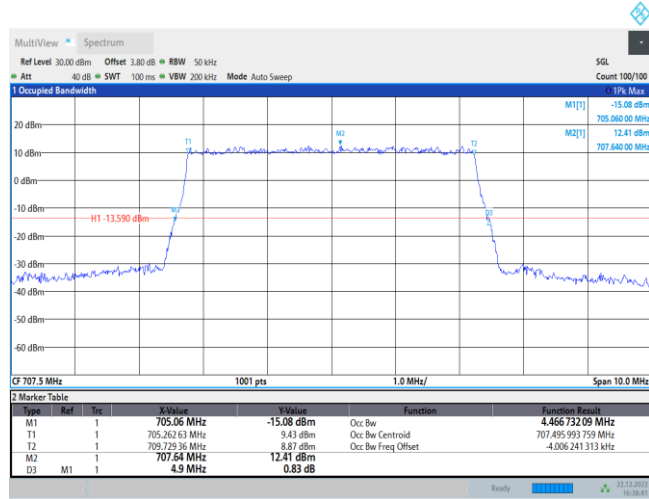


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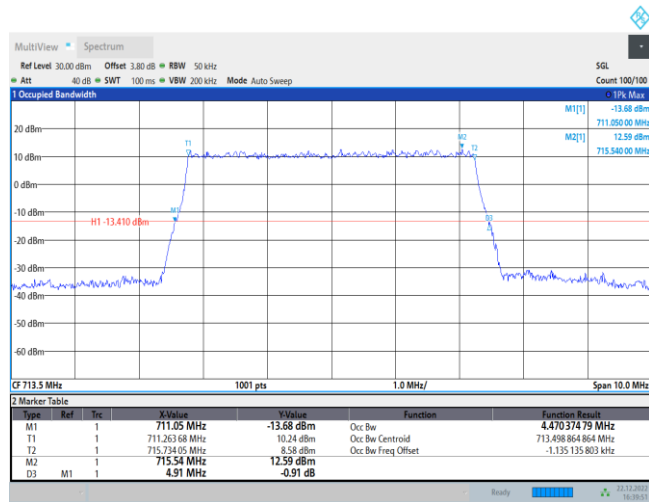
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Band12-5MHz-16QAM-23155-25RB#0

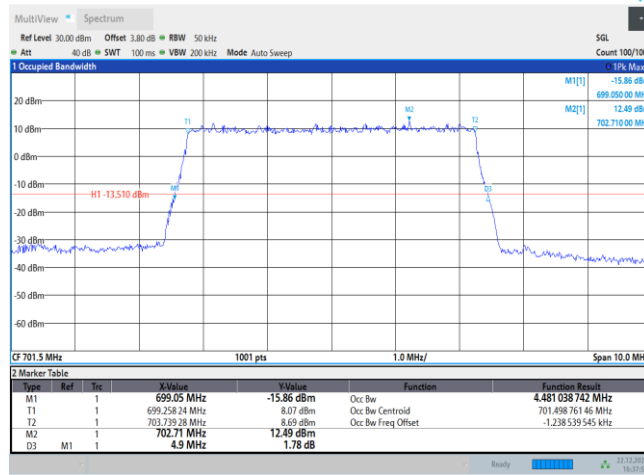


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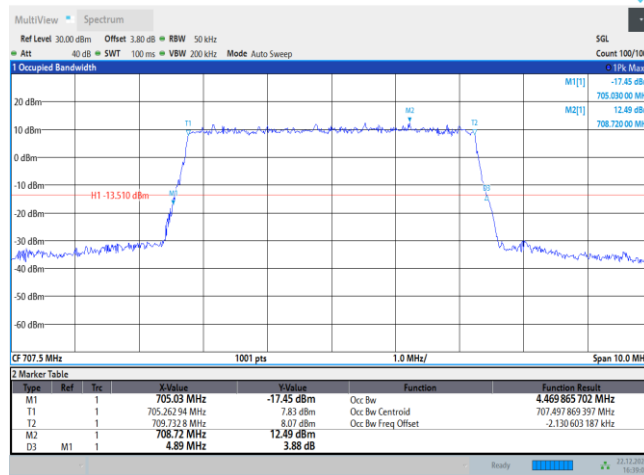
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Band12-5MHz-64QAM-23095-25RB#0



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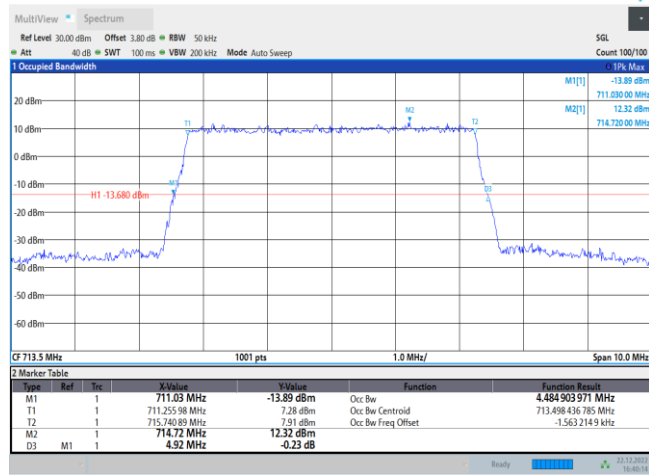


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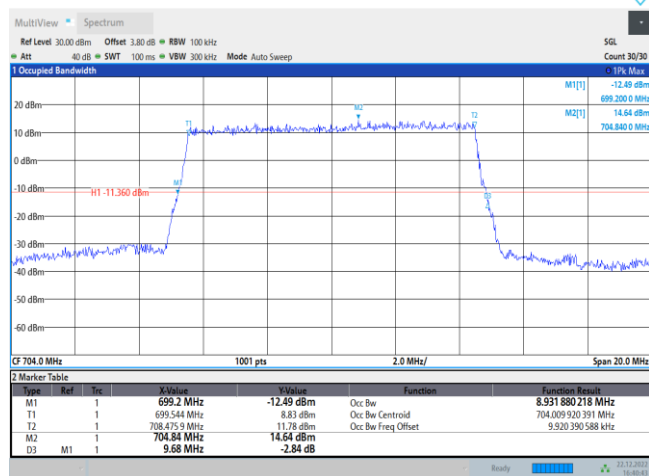
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Band12-5MHz-64QAM-23155-25RB#0



16:40:15 22.12.2022

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



16:40:44 22.12.2022



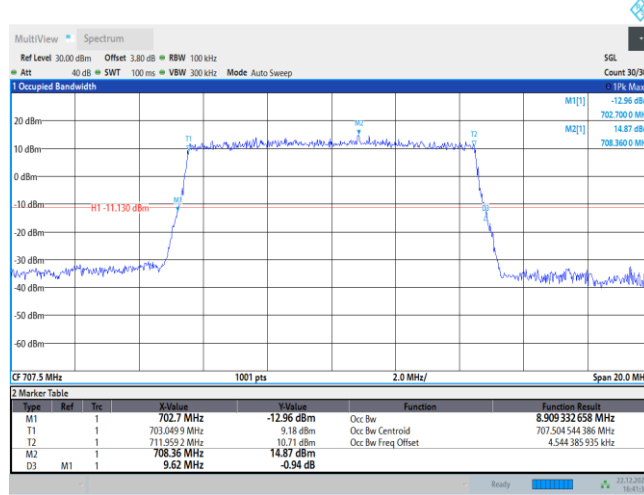
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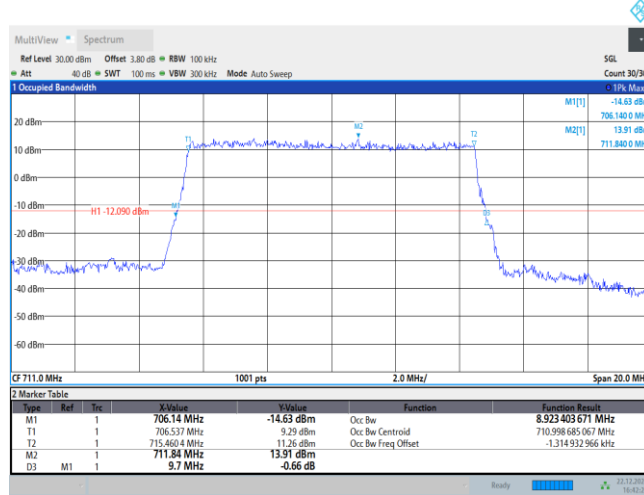
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Band12-10MHz-QPSK-23095-50RB#0



16:41:33 22.12.2022

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



16:42:21 22.12.2022



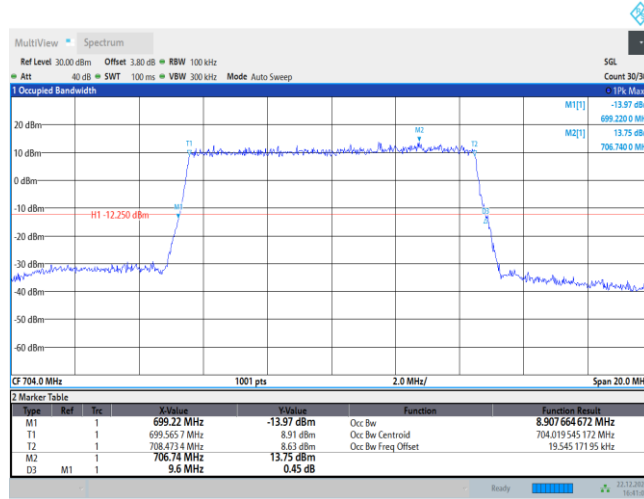
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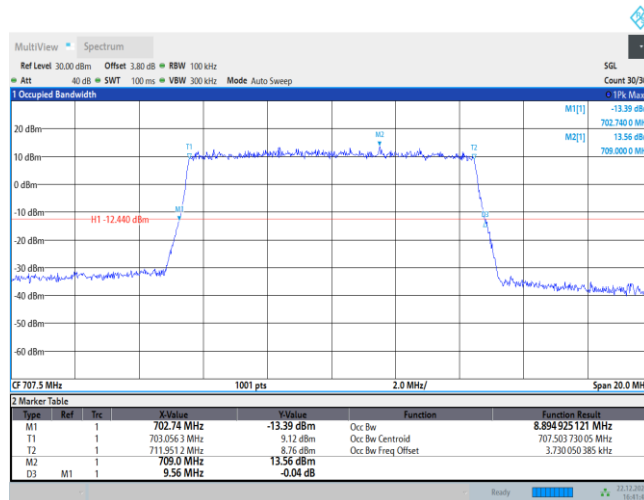
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Band12-10MHz-16QAM-23060-50RB#0



16:41:00 22.12.2022

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



16:41:49 22.12.2022



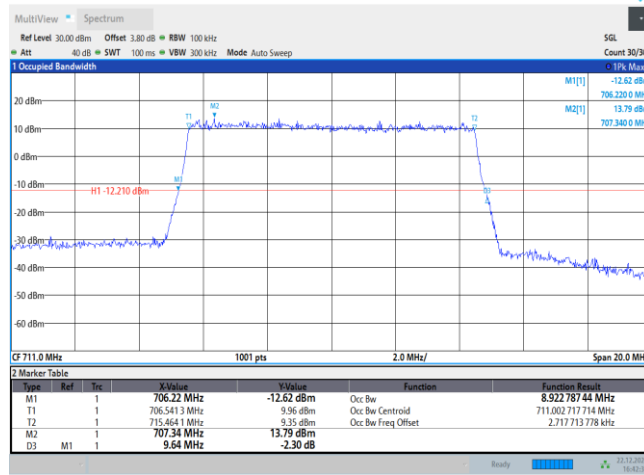
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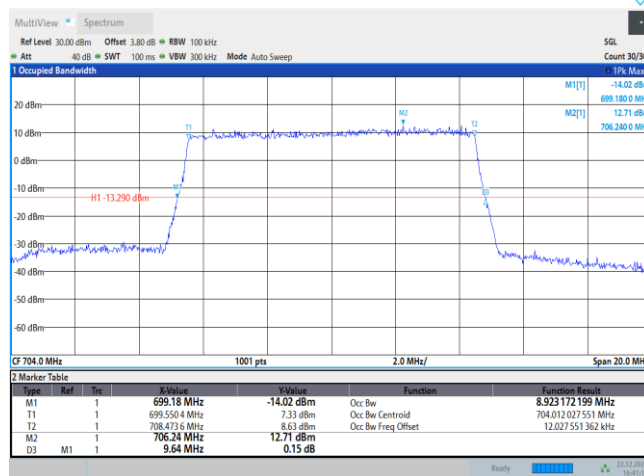
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Band12-10MHz-16QAM-23130-50RB#0



16:42:37 22.12.2022

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



16:41:16 22.12.2022



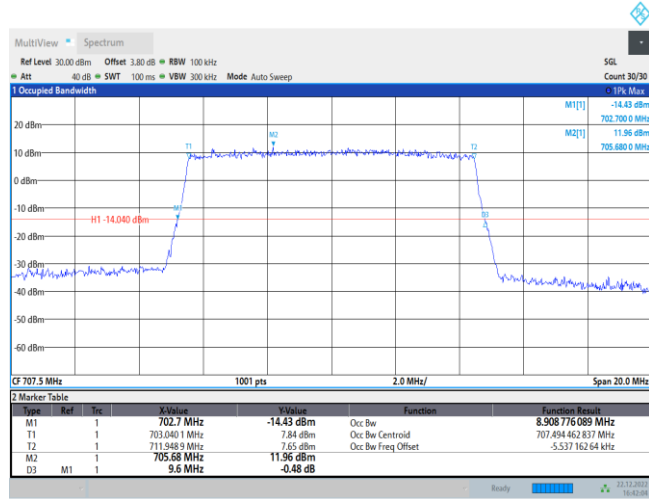
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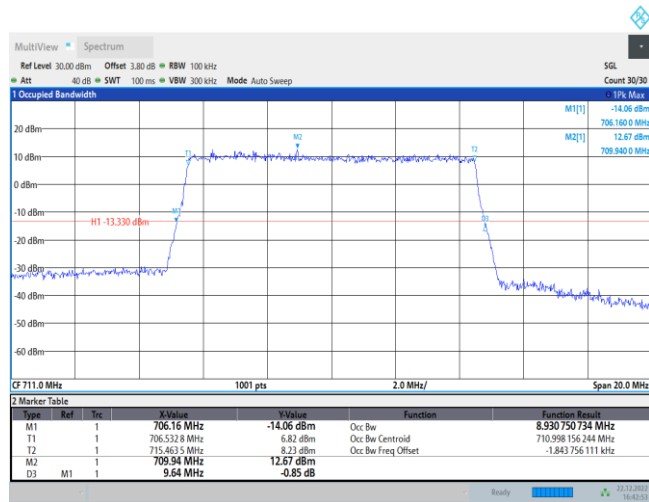
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Band12-10MHz-64QAM-23095-50RB#0



16:42:05 22.12.2022

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



16:42:53 22.12.2022



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Band Edge

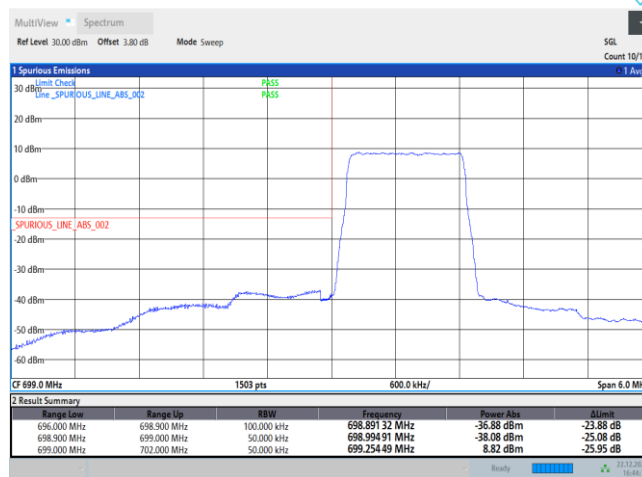
Test Graphs

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



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



16:44:18 22.12.2022

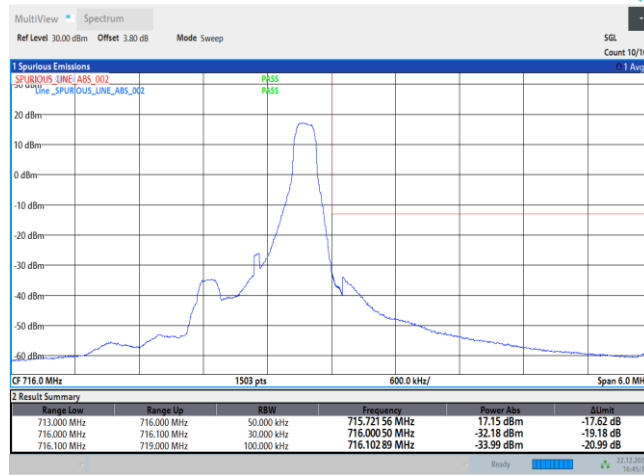


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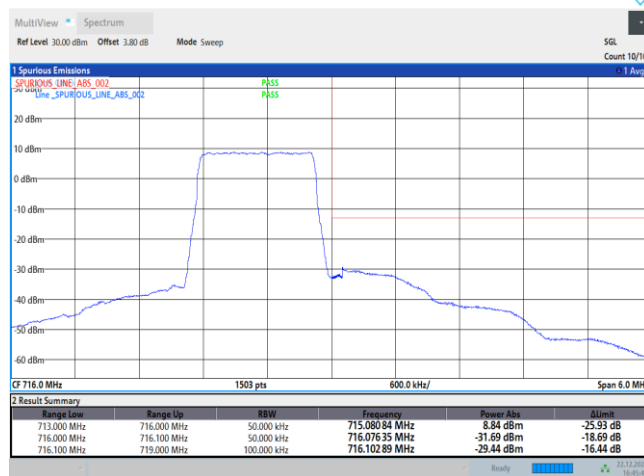
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Band12-1.4MHz-QPSK-23173-1RB#5



16:45:15 22.12.2022

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



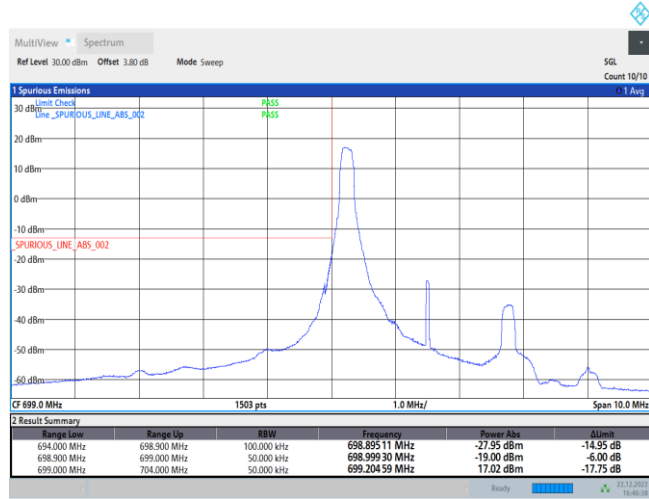
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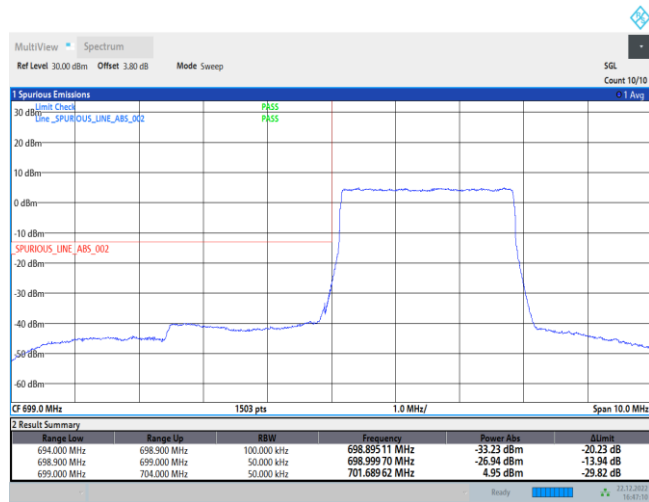
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Band12-3MHz-QPSK-23025-1RB#0



16:46:38 22.12.2022

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



16:47:11 22.12.2022

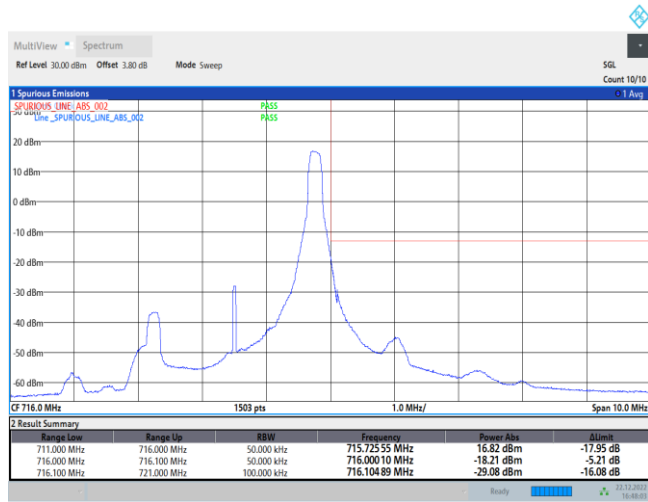


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Band12-3MHz-QPSK-23165-1RB#14



16:48:05 22.12.2022

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



16:48:38 22.12.2022

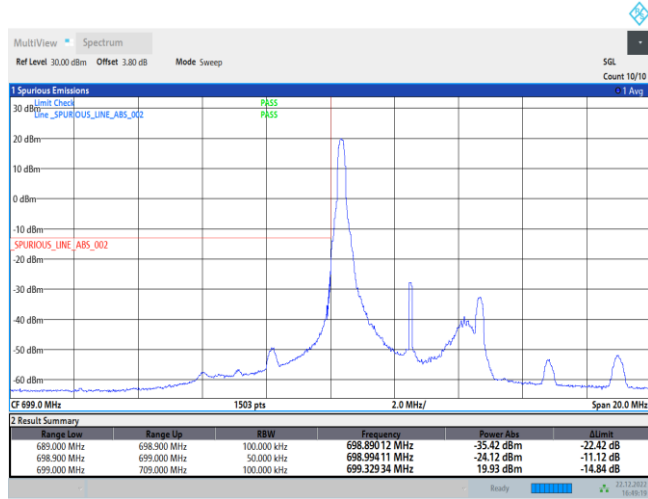


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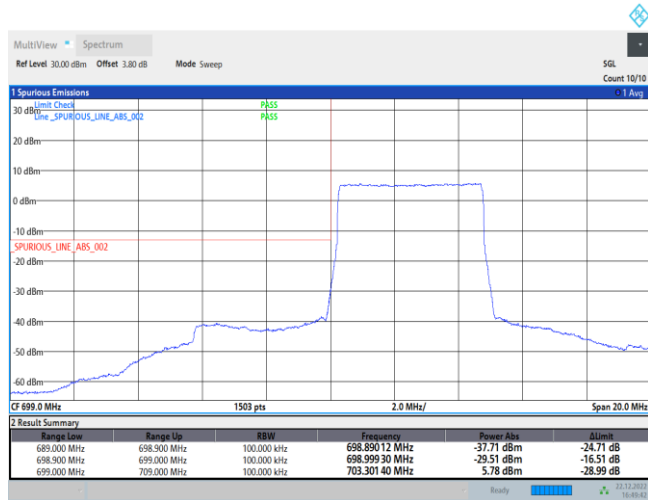
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Band12-5MHz-QPSK-23035-1RB#0



16:49:19 22.12.2022

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



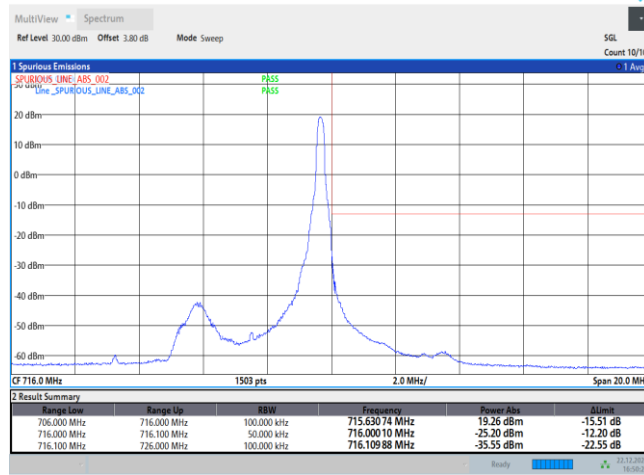
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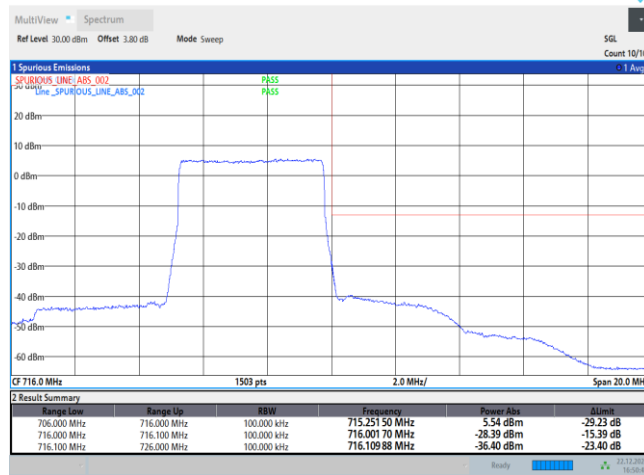
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Band12-5MHz-QPSK-23155-1RB#24



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