

Report No.: SEWM2212000309RG01

Rev.: 02

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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	23.66	19.21	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.52	19.07	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.67	19.22	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.81	18.36	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.65	19.2	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.65	19.2	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.69	19.24	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.72	18.27	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.77	19.32	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.79	19.34	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.62	19.17	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.69	18.24	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.09	18.64	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.06	18.61	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.98	18.53	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.92	17.47	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.03	18.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23	18.55	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.12	18.67	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.71	17.26	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.09	18.64	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.14	18.69	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.07	18.62	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.83	17.38	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.92	17.47	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.12	17.67	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.89	17.44	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	20.83	16.38	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.7	17.25	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.19	17.74	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.24	17.79	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.65	16.2	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.01	17.56	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.04	17.59	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.9	17.45	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.77	16.32	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.54	19.09	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.85	19.4	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.66	19.21	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.89	18.44	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.45	19	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.63	19.18	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.75	19.3	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.8	18.35	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.54	19.09	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.45	19	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.66	19.21	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.75	18.3	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.18	18.73	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.25	18.8	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.96	18.51	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.96	17.51	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.19	18.74	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.13	18.68	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.22	18.77	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.75	17.3	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.03	18.58	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.44	18.99	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.04	18.59	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	21.88	17.43	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.14	17.69	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.01	17.56	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.13	17.68	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.9	16.45	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.19	17.74	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.26	17.81	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.11	17.66	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.9	16.45	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.98	17.53	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.09	17.64	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.95	17.5	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.84	16.39	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.52	19.07	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.45	19	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.52	19.07	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.89	18.44	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.73	19.28	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.75	19.3	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.45	19	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.81	18.36	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.75	19.3	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.36	18.91	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.79	19.34	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.84	18.39	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.01	18.56	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.37	18.92	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.12	18.67	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.89	17.44	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.07	18.62	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.29	18.84	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.24	18.79	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	21.85	17.4	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.3	18.85	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.25	18.8	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.27	18.82	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.86	17.41	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.04	17.59	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.04	17.59	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.11	17.66	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.83	16.38	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22	17.55	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.03	17.58	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.98	17.53	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.81	16.36	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.01	17.56	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.08	17.63	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.98	17.53	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.74	16.29	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.52	19.07	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.78	19.33	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.79	19.34	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23	18.55	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.75	19.3	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.32	18.87	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.74	19.29	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.82	18.37	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.41	18.96	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.78	19.33	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.74	19.29	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.85	18.4	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.17	18.72	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.14	18.69	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.2	18.75	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	21.99	17.54	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.24	18.79	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.12	18.67	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.05	18.6	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.91	17.46	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23	18.55	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.13	18.68	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.08	18.63	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.92	17.47	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.02	17.57	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22	17.55	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.02	17.57	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.93	16.48	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.03	17.58	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.02	17.57	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.96	17.51	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21	16.55	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.16	17.71	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.01	17.56	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.98	17.53	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21	16.55	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.46	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.28	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.34	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.16	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.06	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.06	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.70	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.62	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.58	13	PASS



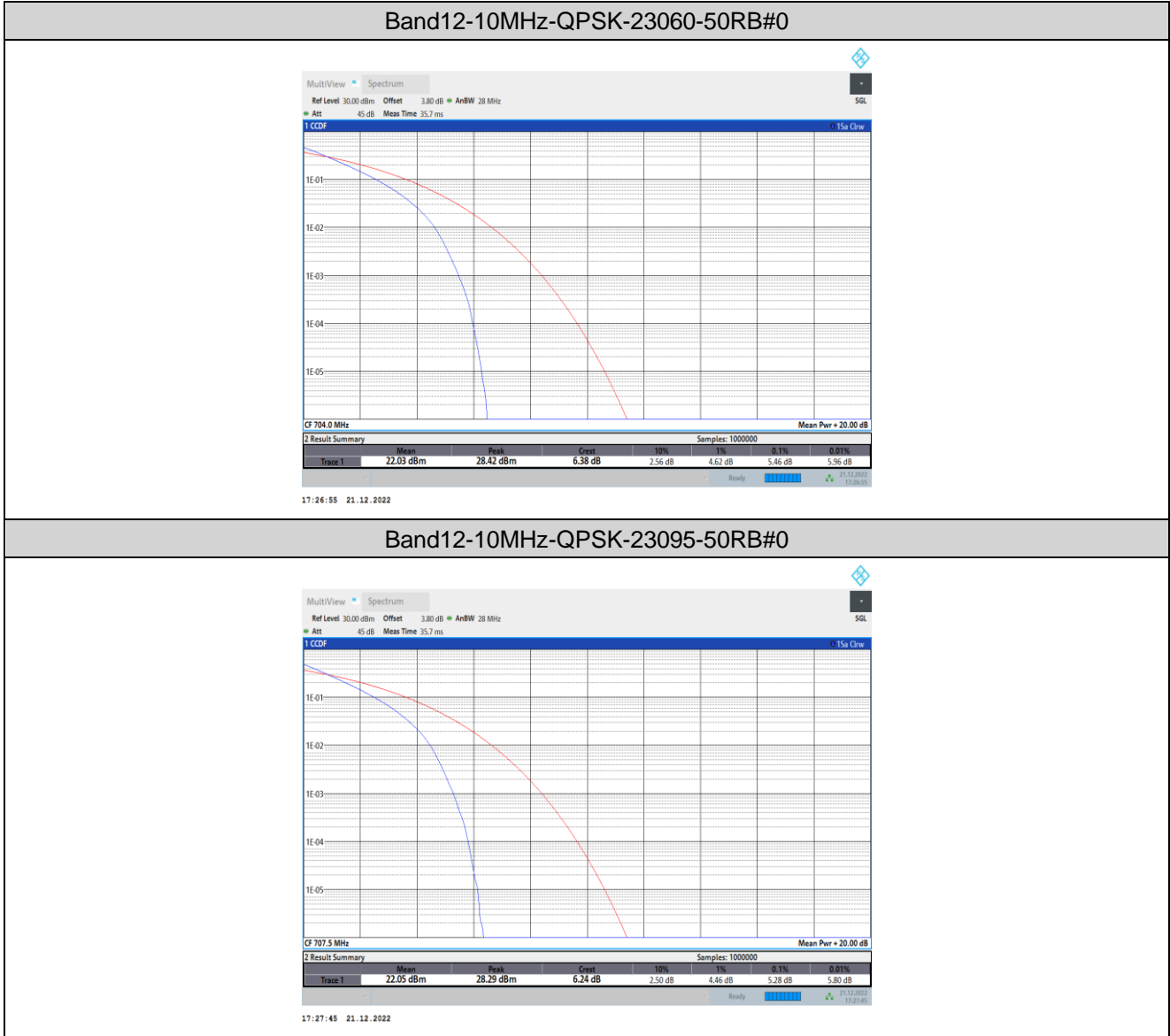
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Test Graphs

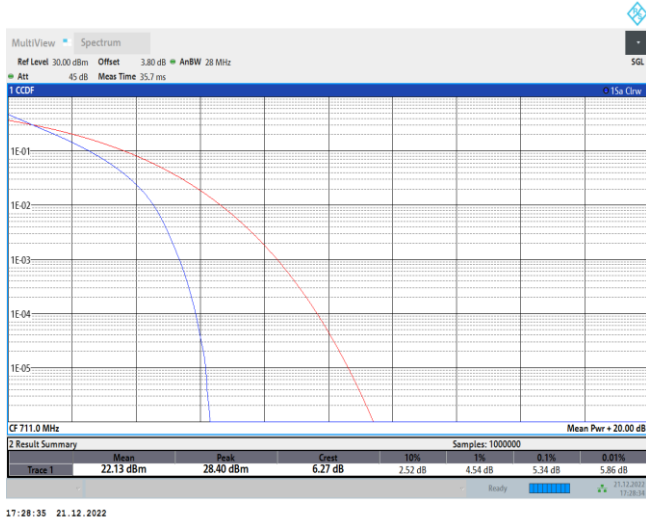


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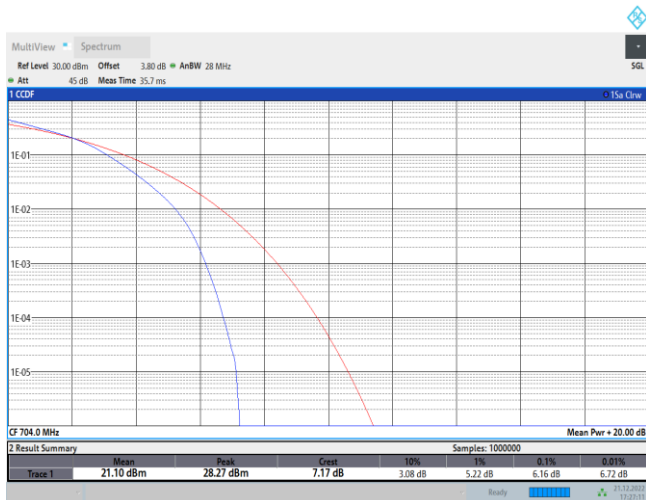
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Band12-10MHz-QPSK-23130-50RB#0



17:28:35 21.12.2022

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



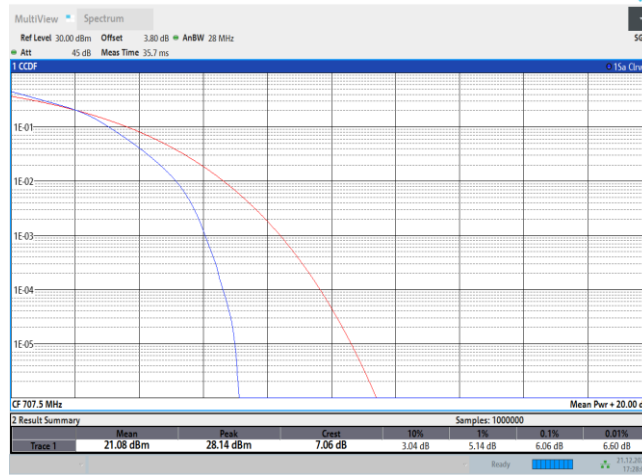
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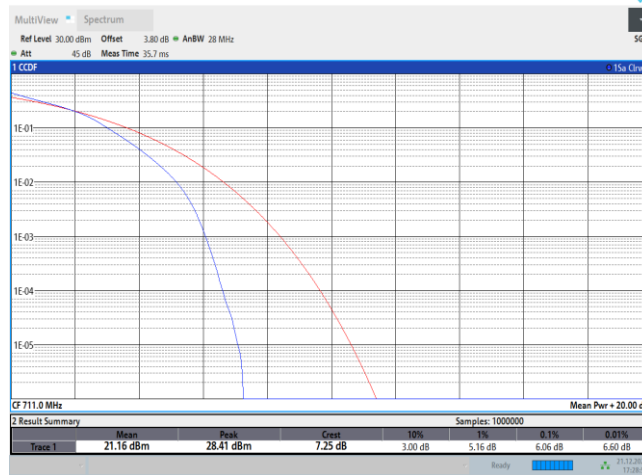
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Band12-10MHz-16QAM-23095-50RB#0



17:28:01 21.12.2022

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



17:28:51 21.12.2022

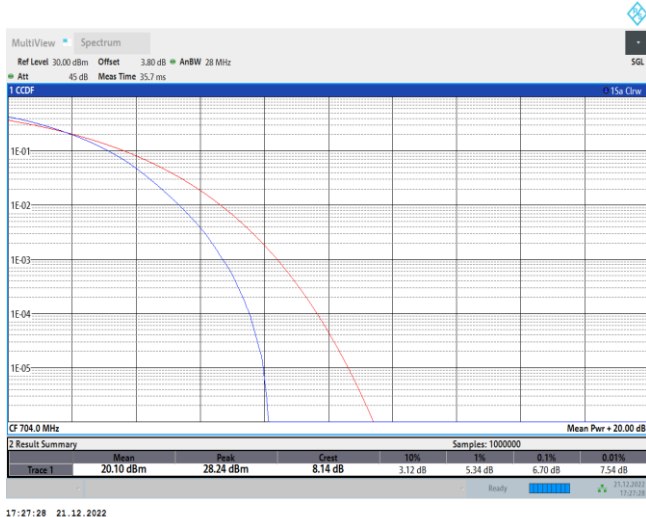


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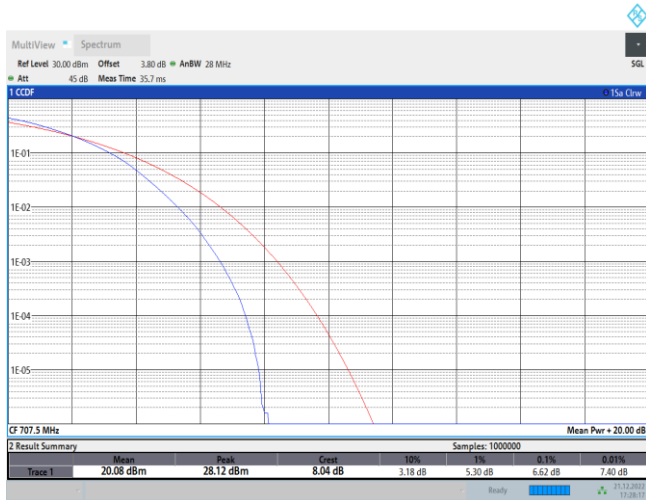
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Band12-10MHz-64QAM-23060-50RB#0



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



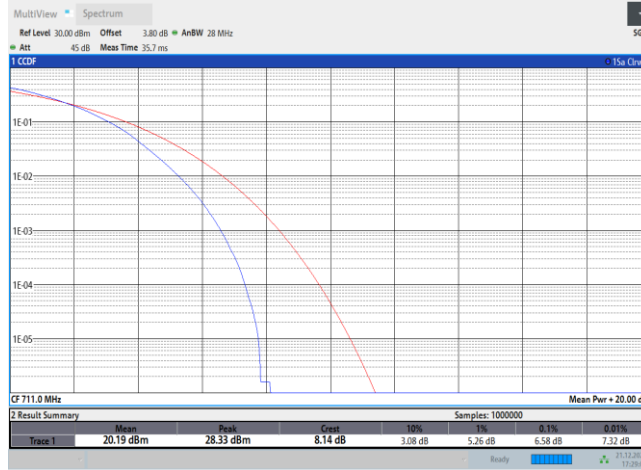
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Band12-10MHz-64QAM-23130-50RB#0



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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



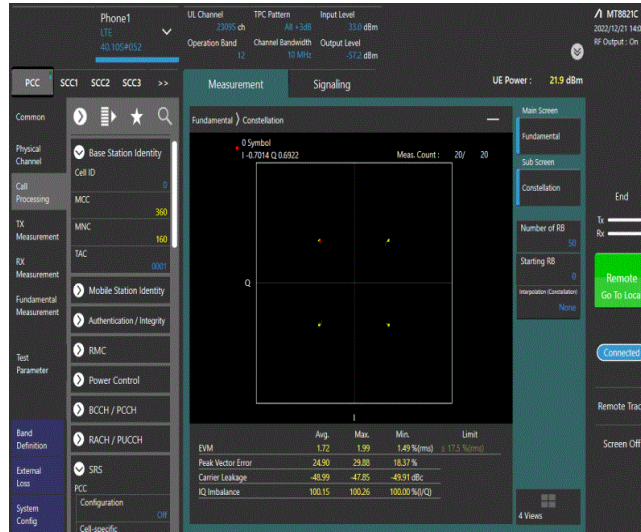
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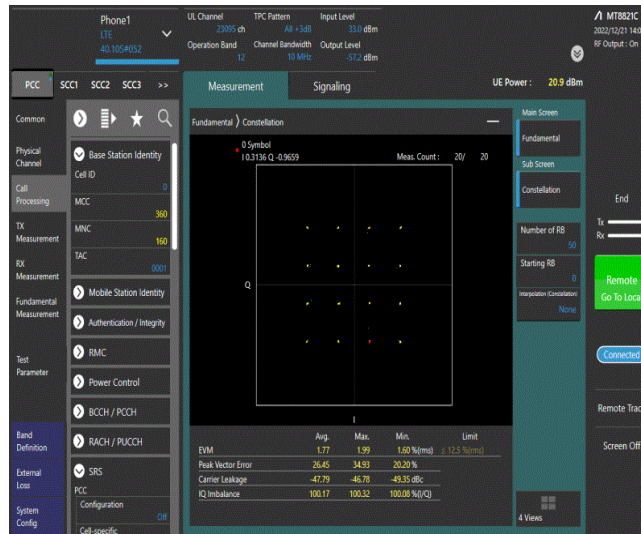
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Test Graphs

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



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

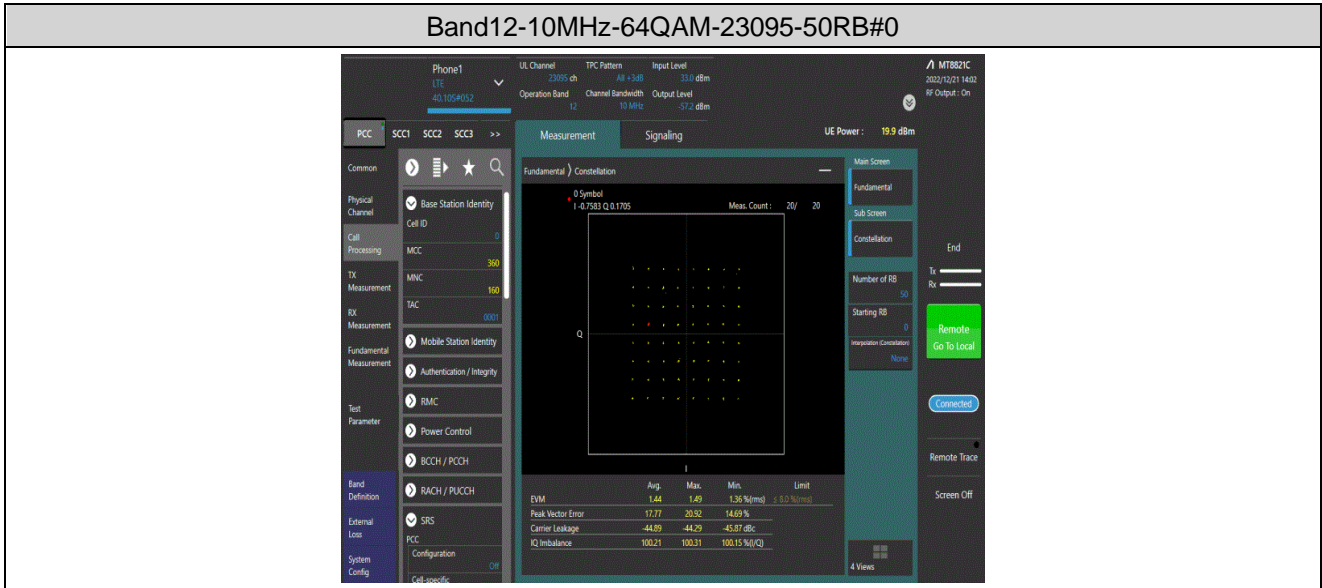


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.096	1.22	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.084	1.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.091	1.24	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.091	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.693	2.98	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.689	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.693	2.97	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.689	2.99	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.687	2.99	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.689	2.99	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.688	2.96	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.689	2.97	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.69	2.99	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.472	4.89	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.466	4.87	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.471	4.89	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.469	4.90	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.465	4.88	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.473	4.93	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.483	4.90	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.477	4.91	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.484	4.91	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.927	9.58	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.907	9.58	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.924	9.64	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.91	9.58	PASS



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Rev.: 02

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Band12	10MHz	16QAM	23095	50RB#0	8.892	9.60	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.906	9.58	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.923	9.64	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.899	9.60	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.934	9.66	PASS

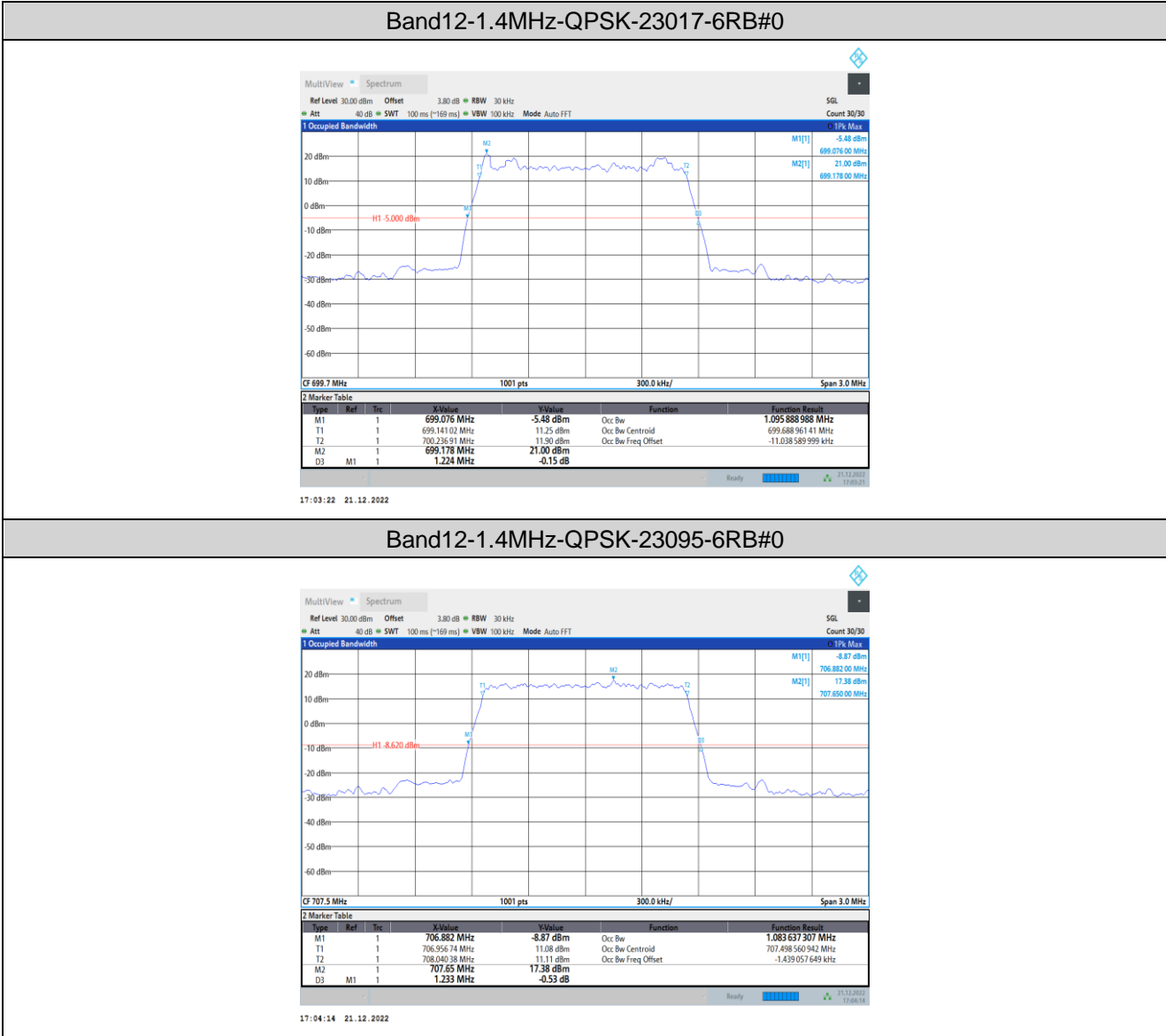


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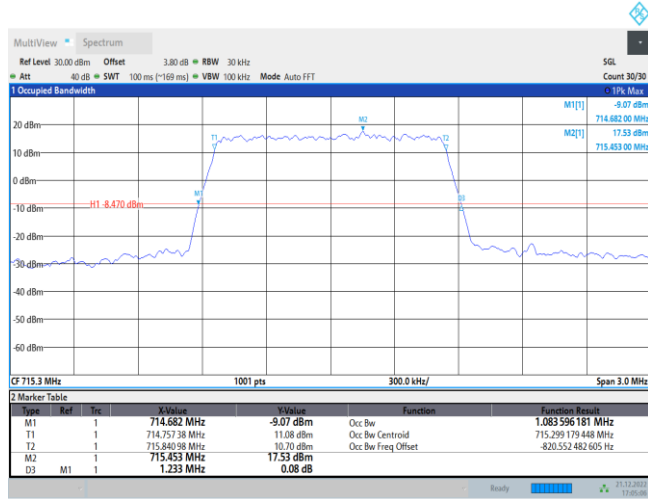


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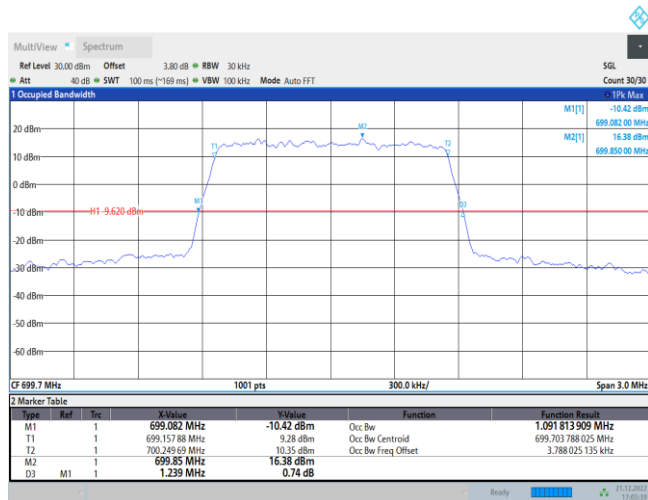
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Band12-1.4MHz-QPSK-23173-6RB#0



17:05:06 21.12.2022

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



17:03:40 21.12.2022

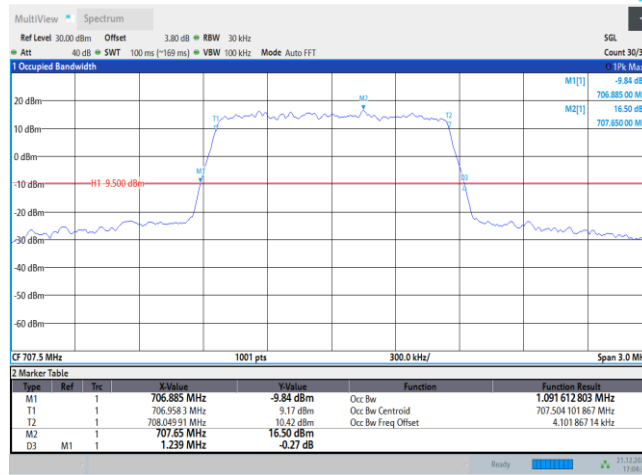


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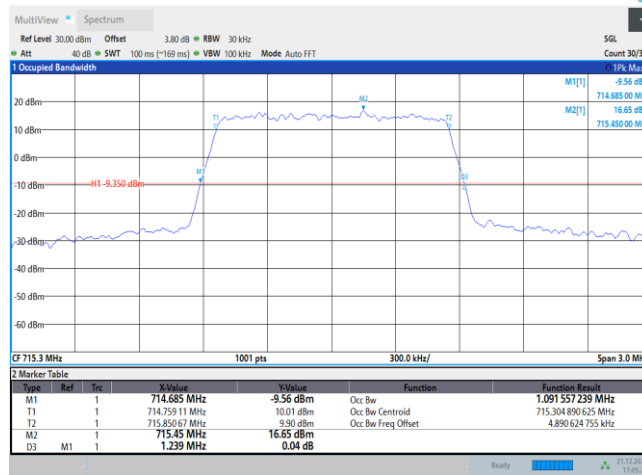
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Band12-1.4MHz-16QAM-23095-6RB#0



17:04:32 21.12.2022

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



17:05:24 21.12.2022

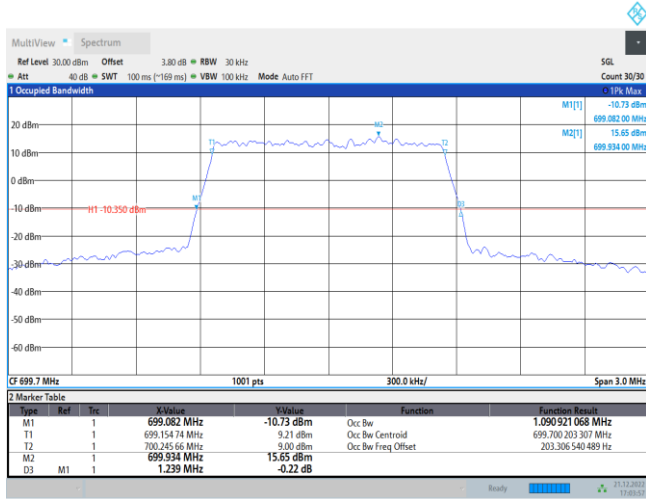


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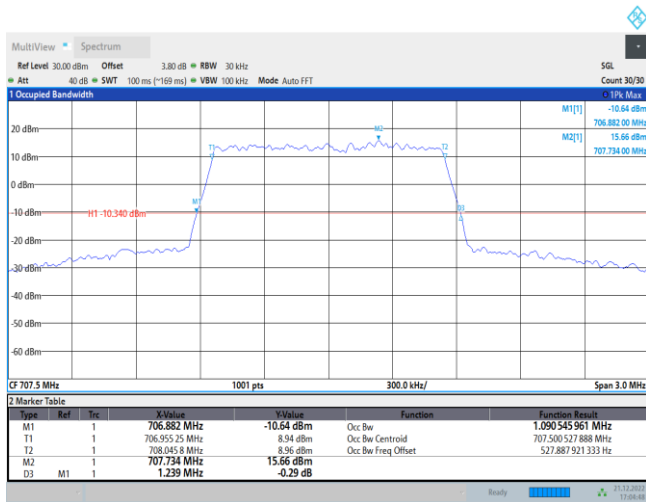
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Band12-1.4MHz-64QAM-23017-6RB#0



17:03:57 21.12.2022

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



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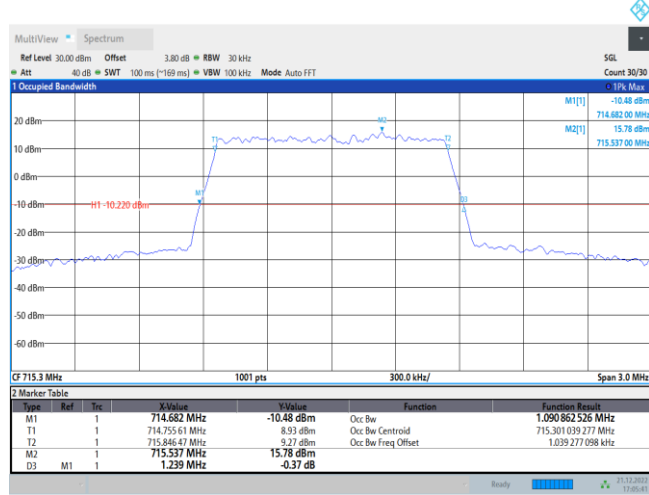


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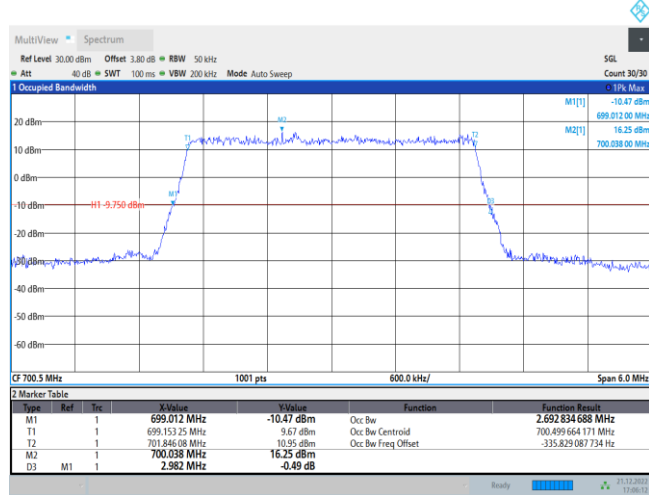
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Band12-1.4MHz-64QAM-23173-6RB#0



17:05:41 21.12.2022

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



17:06:12 21.12.2022

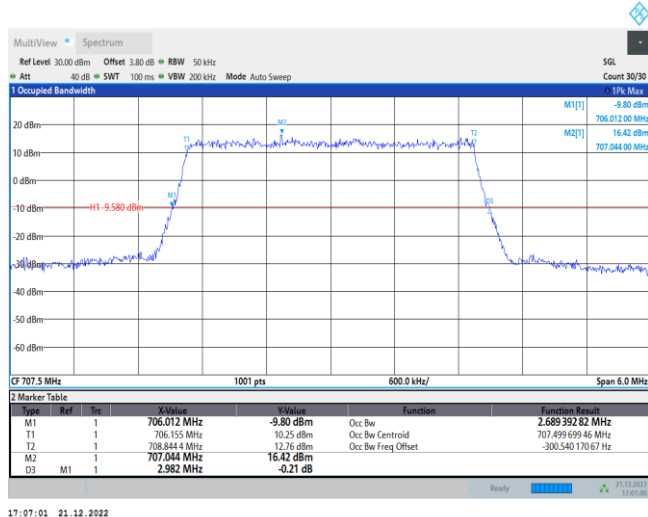


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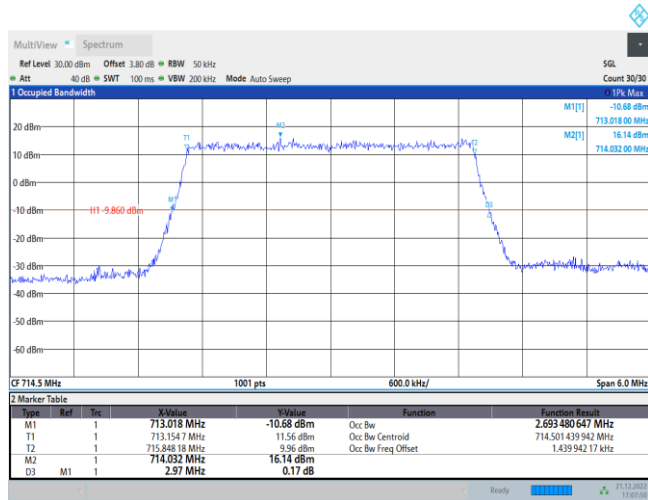
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Band12-3MHz-QPSK-23095-15RB#0



17:07:01 21.12.2022

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



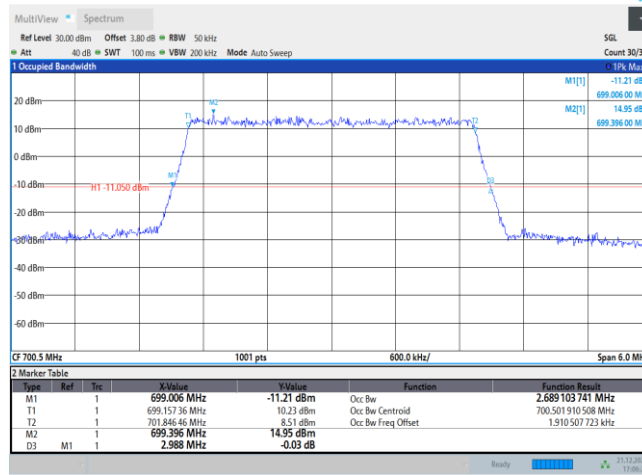
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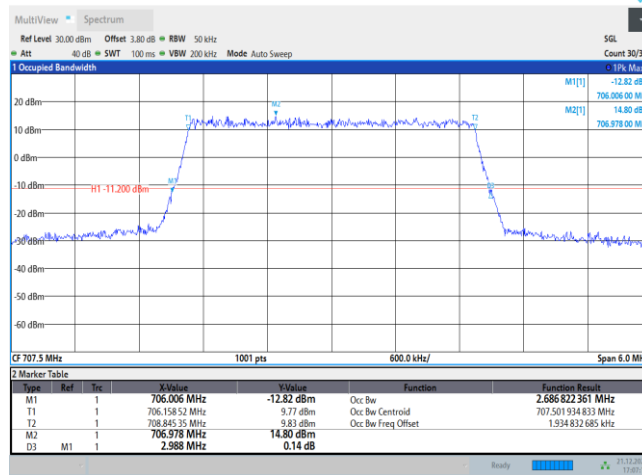
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Band12-3MHz-16QAM-23025-15RB#0



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



17:07:17 21.12.2022



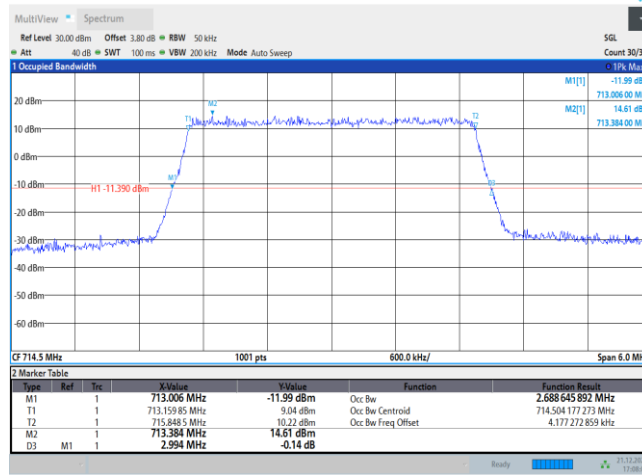
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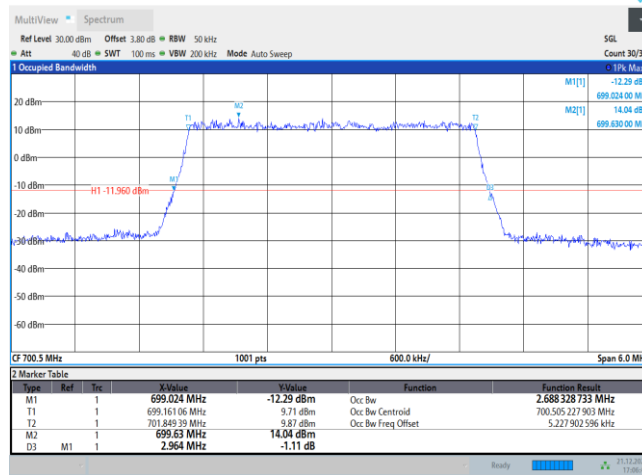
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Band12-3MHz-16QAM-23165-15RB#0



17:08:06 21.12.2022

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



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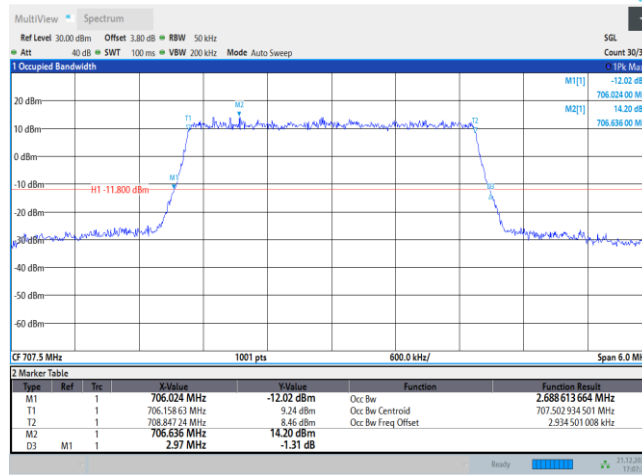


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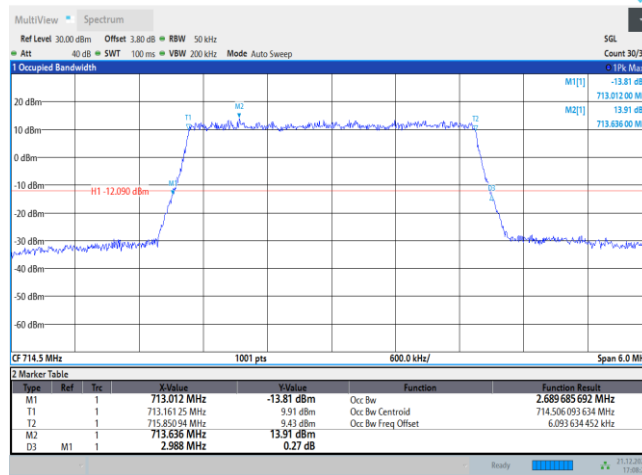
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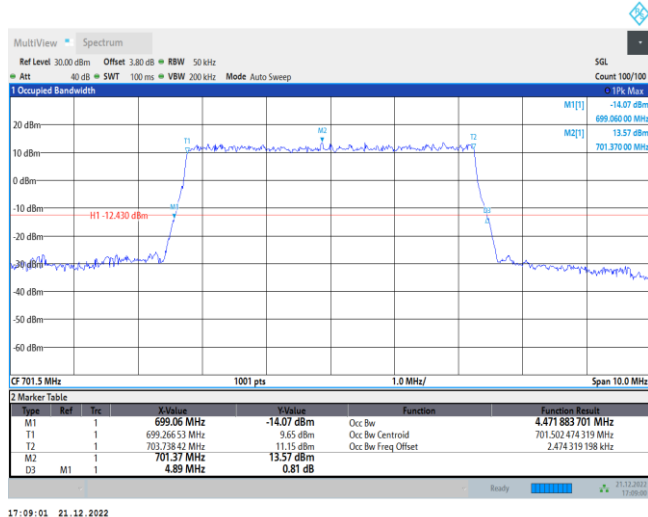


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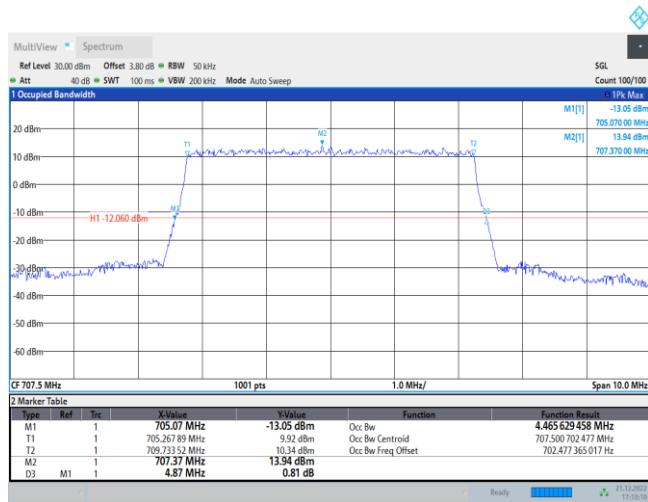
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Band12-5MHz-QPSK-23035-25RB#0



17:09:01 21.12.2022

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



17:10:11 21.12.2022

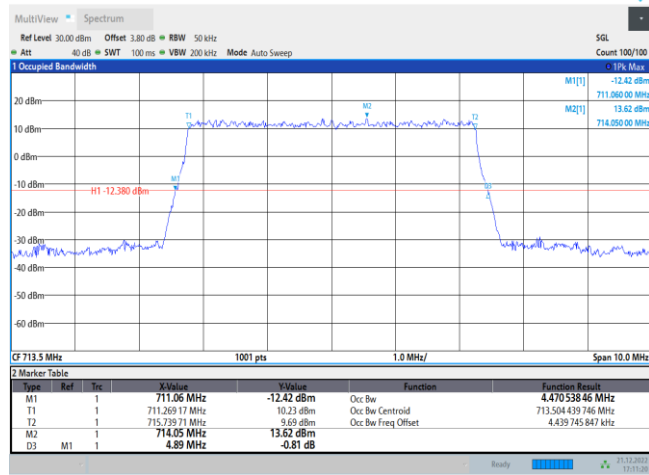


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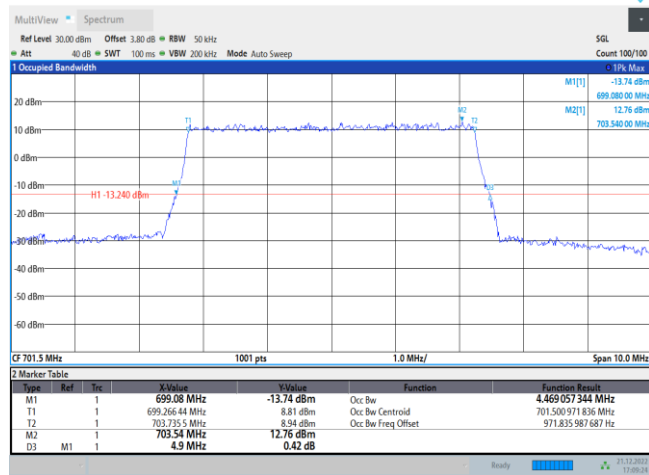
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Band12-5MHz-QPSK-23155-25RB#0



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



17:09:24 21.12.2022



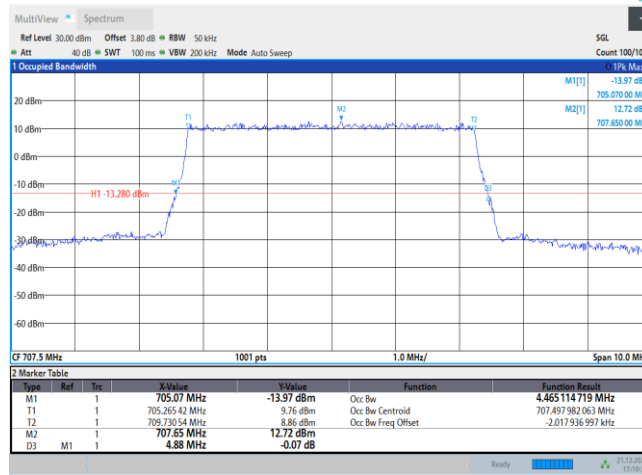
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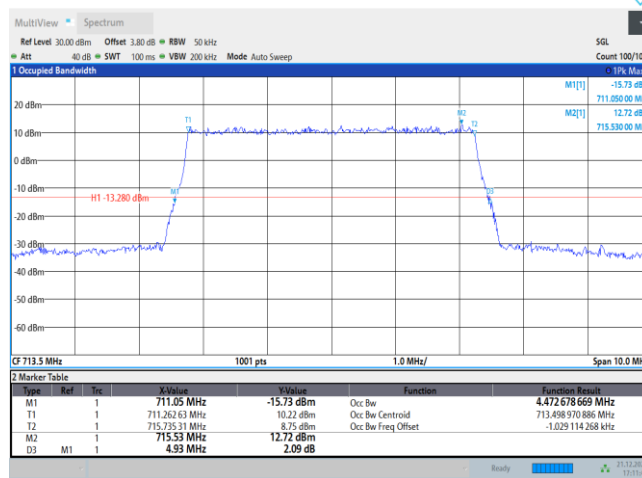
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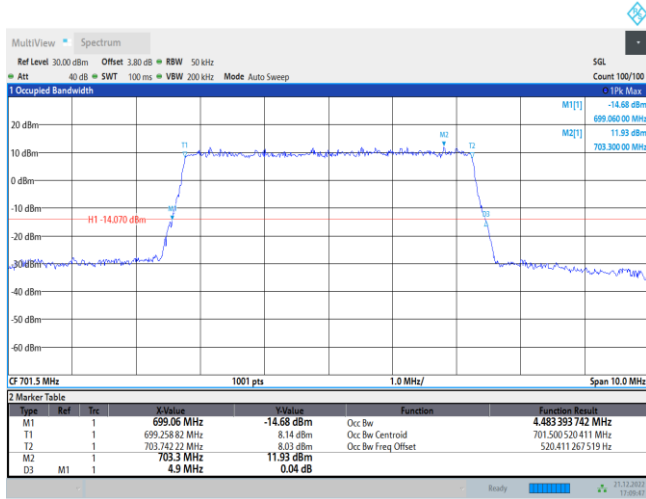


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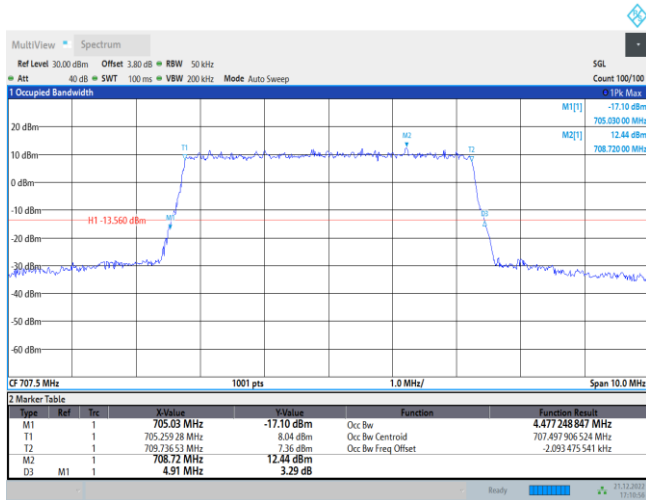
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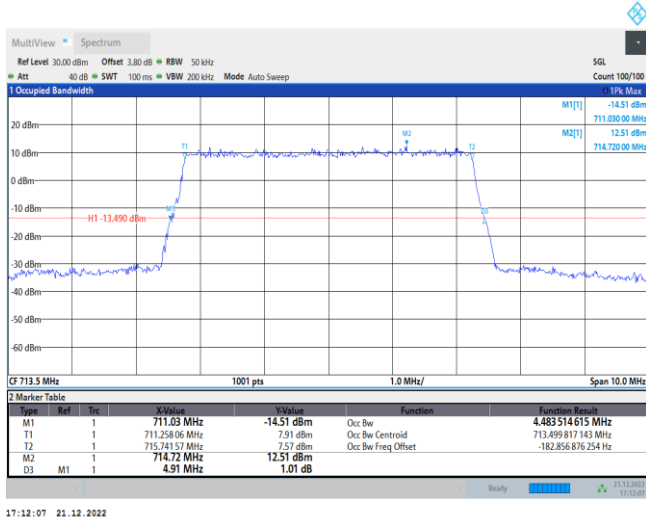


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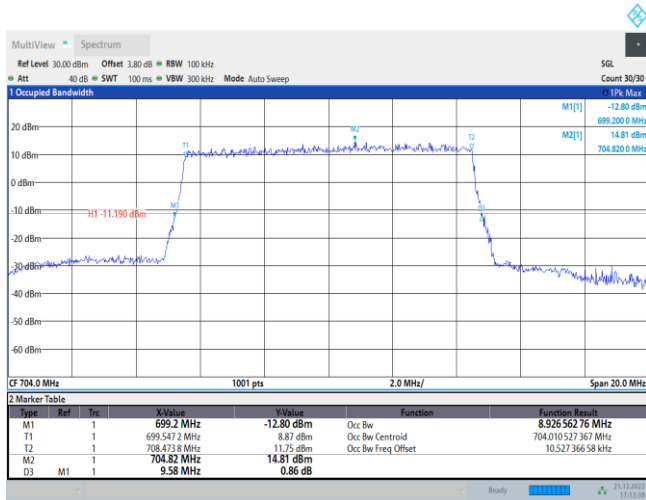
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Band12-5MHz-64QAM-23155-25RB#0



17:12:07 21.12.2022

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



17:12:38 21.12.2022

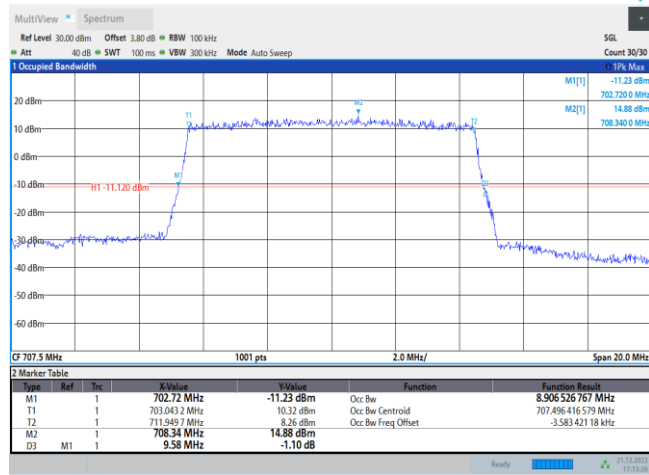


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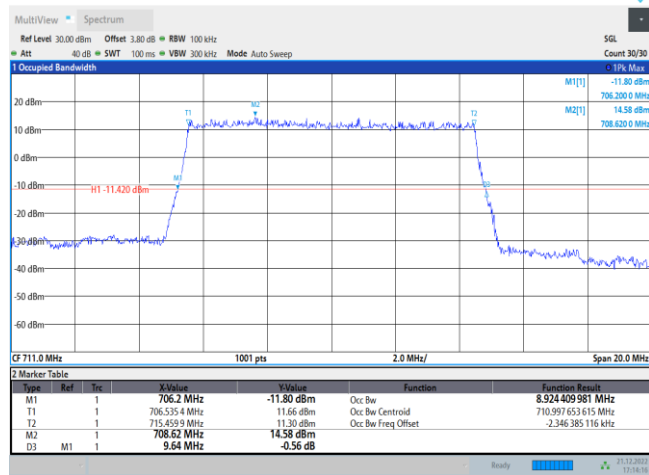
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Band12-10MHz-QPSK-23095-50RB#0



17:13:27 21.12.2022

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



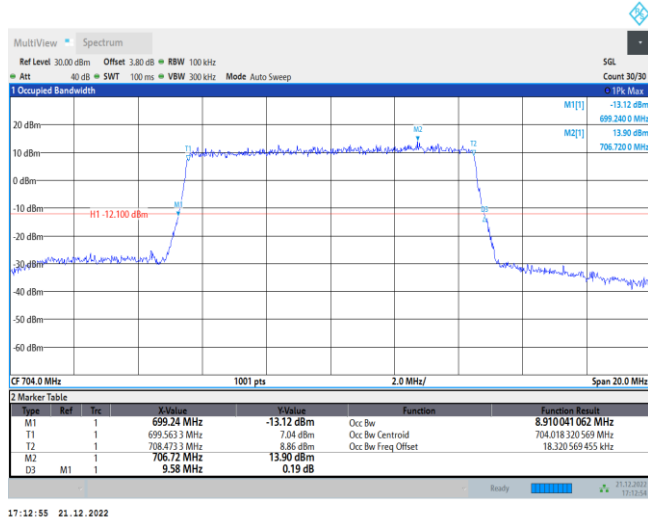
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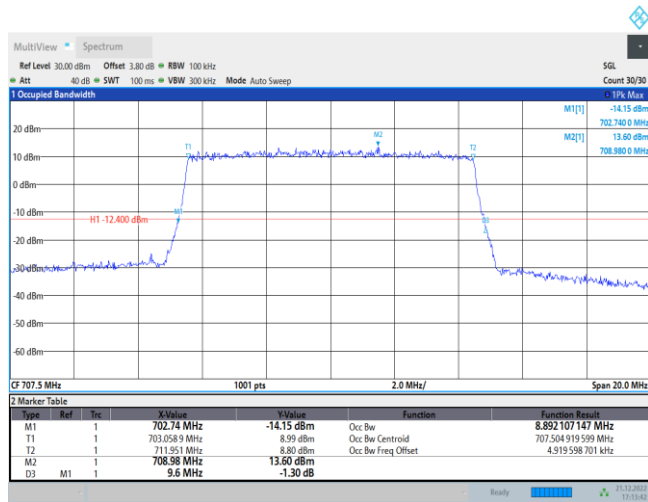
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Band12-10MHz-16QAM-23060-50RB#0



17:12:55 21.12.2022

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



17:13:44 21.12.2022

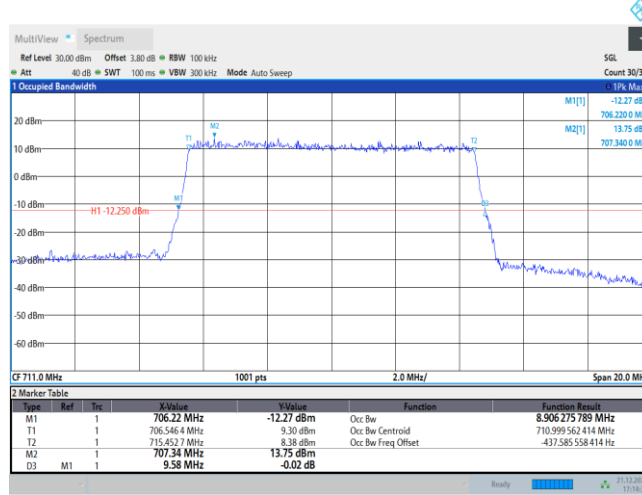


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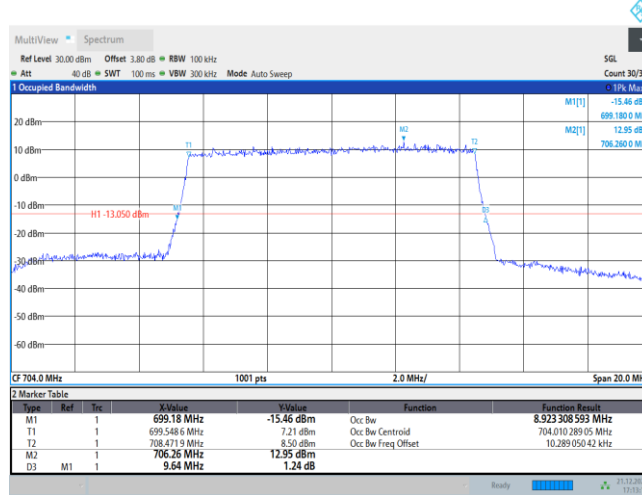
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Band12-10MHz-16QAM-23130-50RB#0



17:14:32 21.12.2022

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



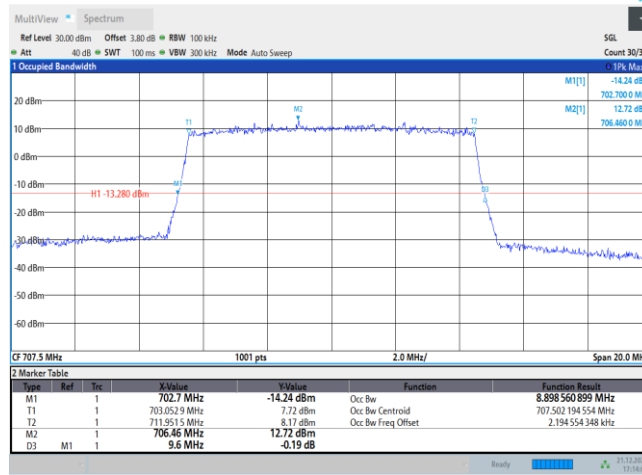
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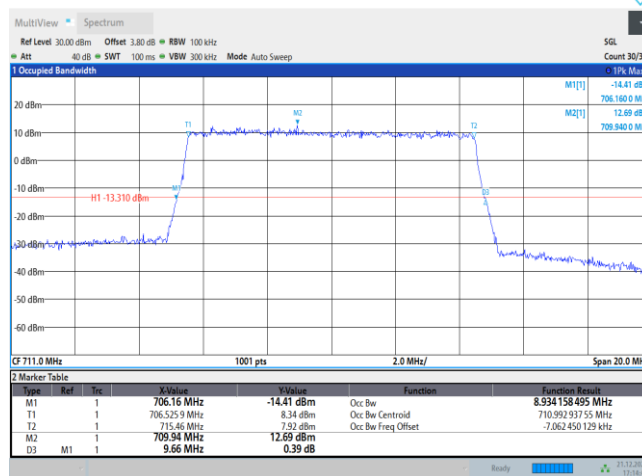
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Band12-10MHz-64QAM-23095-50RB#0



17:14:00 21.12.2022

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



17:14:49 21.12.2022



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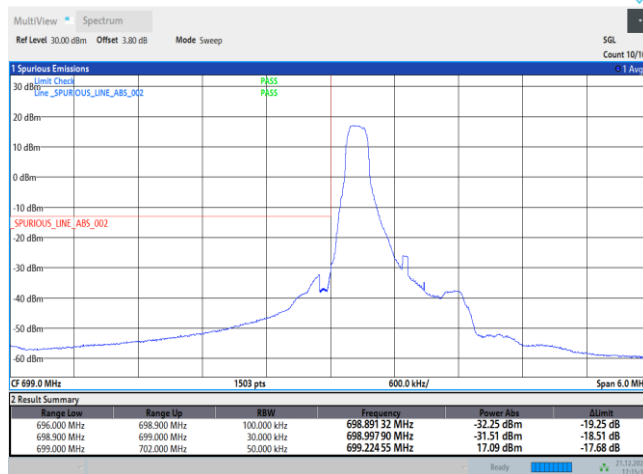
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Band Edge

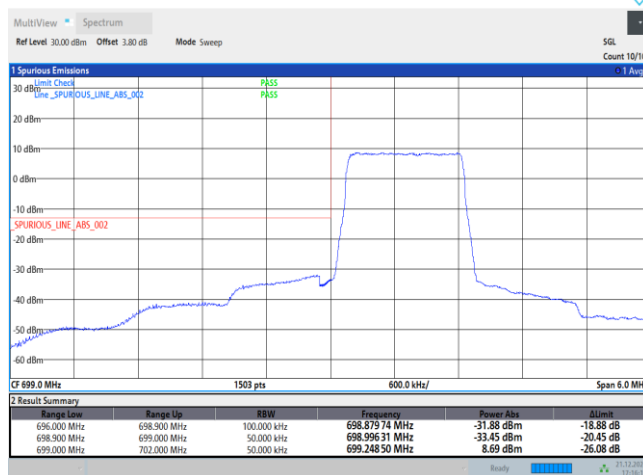
Test Graphs

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



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



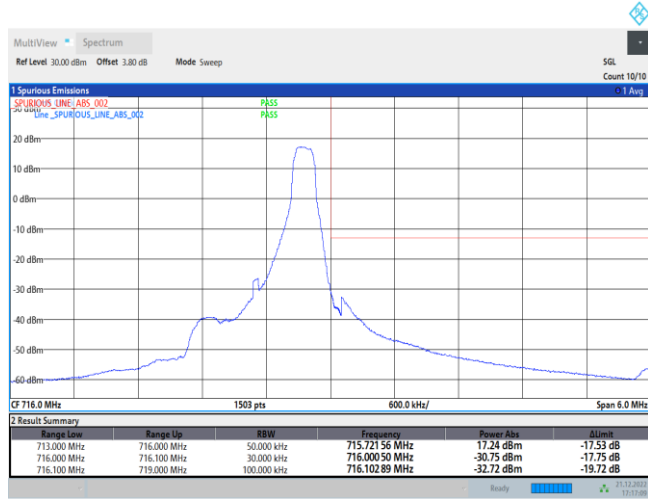
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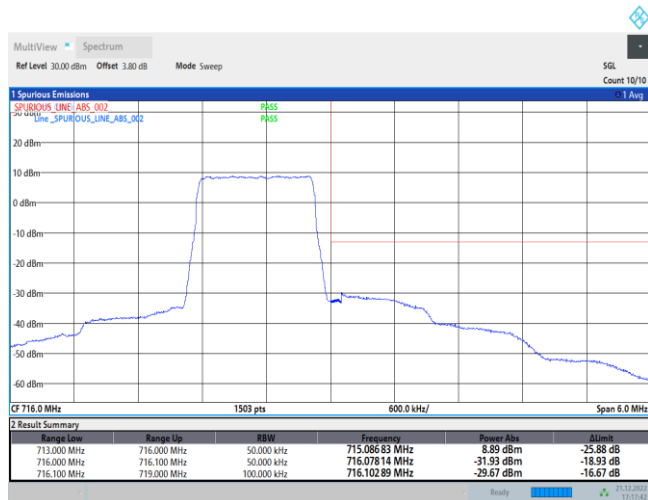
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Band12-1.4MHz-QPSK-23173-1RB#5



17:17:09 21.12.2022

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



17:17:42 21.12.2022

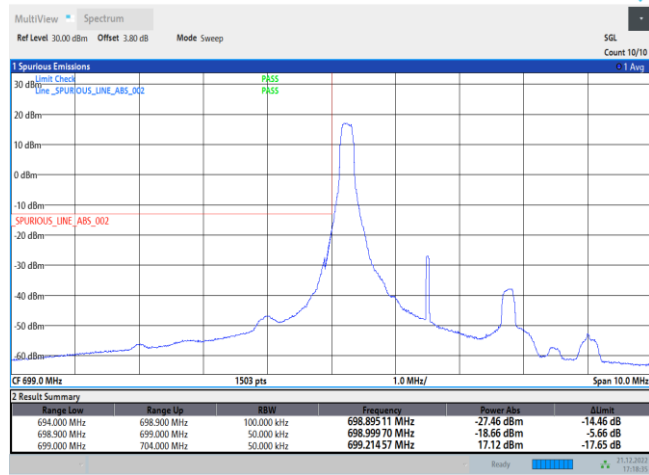


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Band12-3MHz-QPSK-23025-1RB#0



17:18:36 21.12.2022

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



17:19:09 21.12.2022

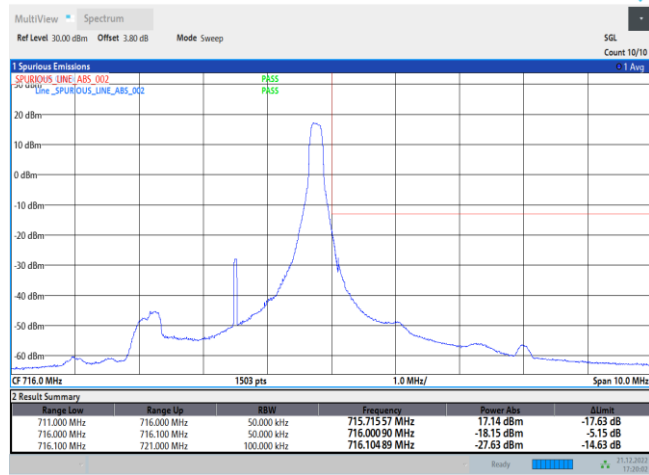


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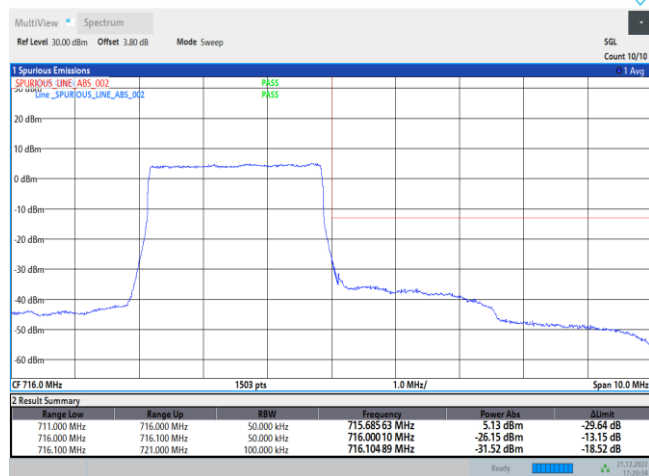
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Band12-3MHz-QPSK-23165-1RB#14



17:20:02 21.12.2022

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



17:20:35 21.12.2022

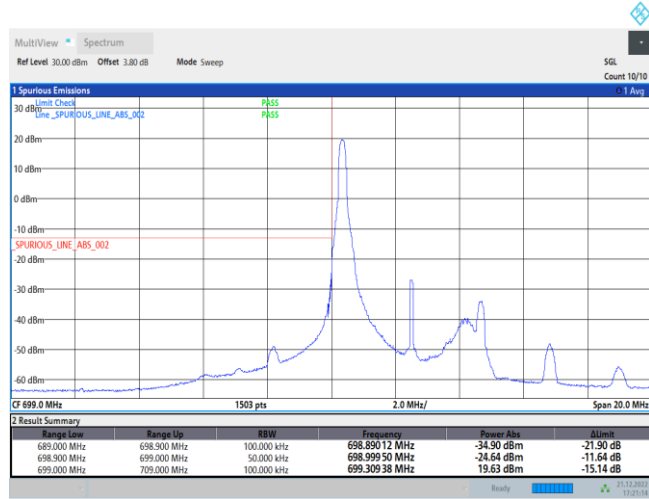


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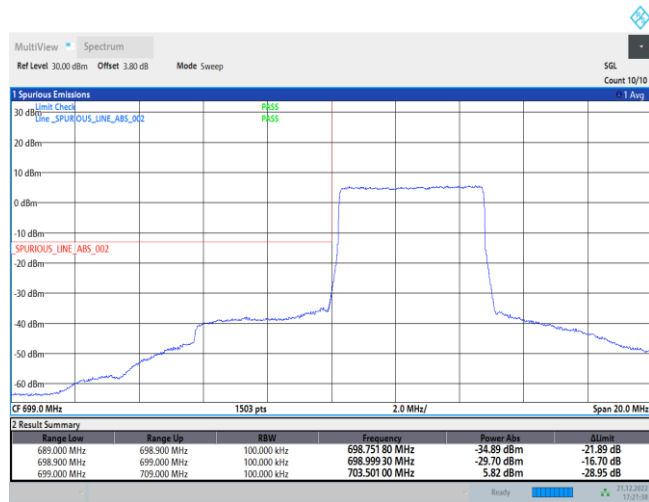
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Band12-5MHz-QPSK-23035-1RB#0



17:21:15 21.12.2022

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



17:21:38 21.12.2022

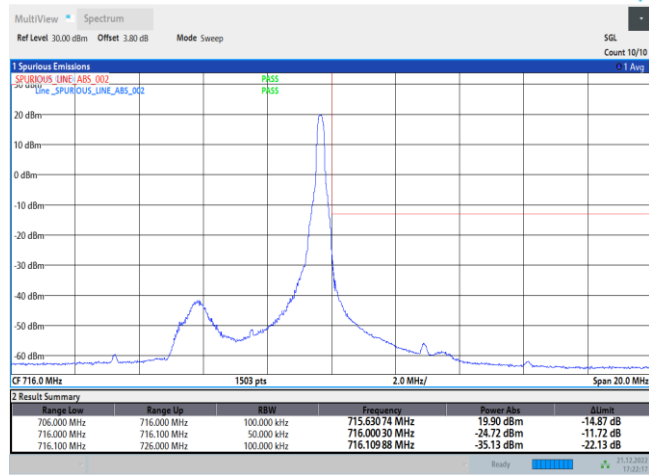


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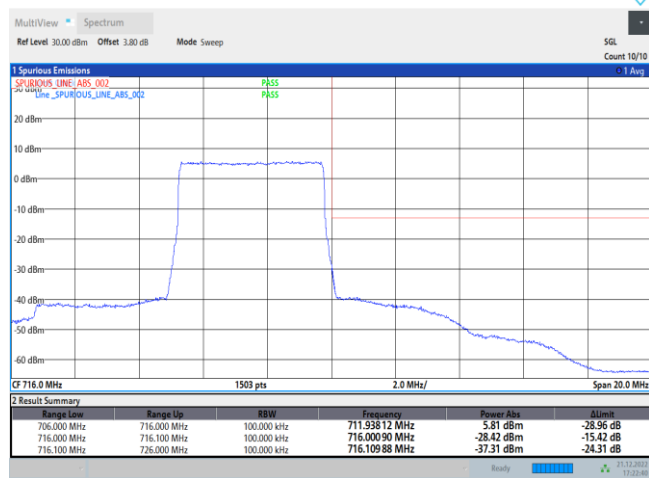
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Band12-5MHz-QPSK-23155-1RB#24



17:22:18 21.12.2022

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



17:22:41 21.12.2022



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