

Report No.: SEWM2209000170RG01

Rev.: 01

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# Appendix B.7

## LTE Band 12



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### ANT0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.23	16.08	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.37	16.22	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.34	16.19	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.33	15.18	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.28	16.13	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.32	16.17	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.29	16.14	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.28	15.13	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.21	16.06	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.26	16.11	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.29	16.14	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.21	15.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.51	15.36	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.76	15.61	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.61	15.46	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.41	14.26	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.51	15.36	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.54	15.39	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.52	15.37	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.38	14.23	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.53	15.38	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.5	15.35	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.53	15.38	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.32	14.17	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	22.47	14.32	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	22.55	14.4	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#5	22.42	14.27	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	21.27	13.12	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.38	14.23	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.46	14.31	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.44	14.29	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	21.21	13.06	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.37	14.22	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	22.39	14.24	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.36	14.21	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	21.12	12.97	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.3	16.15	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	24.34	16.19	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.3	16.15	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.33	15.18	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.33	16.18	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.3	16.15	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.26	16.11	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.26	15.11	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.32	16.17	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.26	16.11	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.31	16.16	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.25	15.1	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.55	15.4	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.57	15.42	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.53	15.38	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.34	14.19	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.47	15.32	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.6	15.45	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.57	15.42	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.29	14.14	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.47	15.32	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.54	15.39	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.41	15.26	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	22.26	14.11	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.44	14.29	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	22.41	14.26	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.43	14.28	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.27	13.12	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	22.44	14.29	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	22.49	14.34	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.41	14.26	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	21.26	13.11	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.37	14.22	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.39	14.24	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.41	14.26	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.19	13.04	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.34	16.19	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.4	16.25	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.38	16.23	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.31	15.16	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.38	16.23	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.44	16.29	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.34	16.19	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.34	15.19	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.34	16.19	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.34	16.19	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	24.33	16.18	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.22	15.07	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.63	15.48	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.66	15.51	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.63	15.48	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.31	14.16	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.5	15.35	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.6	15.45	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.62	15.47	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.32	14.17	34.77	PASS



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Band12	5MHz	16QAM	23155	1RB#0	23.51	15.36	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.55	15.4	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.6	15.45	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.27	14.12	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.49	14.34	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	22.5	14.35	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	22.47	14.32	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	21.28	13.13	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.46	14.31	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	22.47	14.32	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.37	14.22	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	21.31	13.16	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.48	14.33	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.45	14.3	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	22.49	14.34	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.19	13.04	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.34	16.19	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.37	16.22	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.27	16.12	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.29	15.14	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.36	16.21	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.88	15.73	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.82	15.67	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.49	15.34	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.99	15.84	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.98	15.83	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.82	15.67	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.35	15.2	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.71	15.56	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.55	15.4	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.55	15.4	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.25	14.1	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.63	15.48	34.77	PASS



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Band12	10MHz	16QAM	23095	1RB#24	23.23	15.08	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.11	14.96	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	22.54	14.39	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.21	15.06	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.16	15.01	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.96	14.81	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.32	14.17	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.48	14.33	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	22.39	14.24	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	22.41	14.26	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.22	13.07	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.41	14.26	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.01	13.86	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.88	13.73	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.48	13.33	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.02	13.87	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.15	14	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.96	13.81	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.33	13.18	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	5.56	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.66	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.66	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.24	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.40	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.44	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.68	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.64	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.58	13	PASS



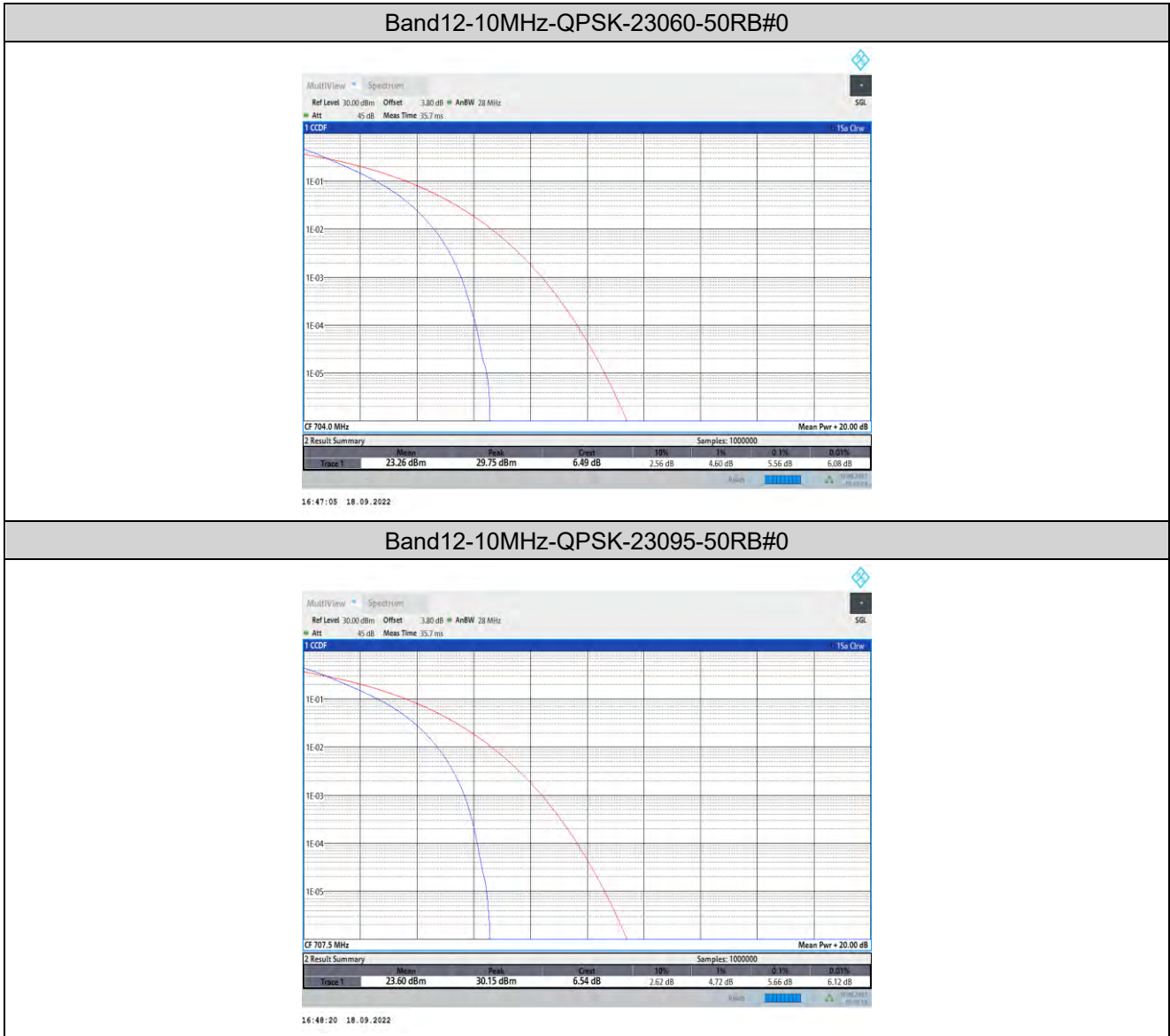
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Test Graphs



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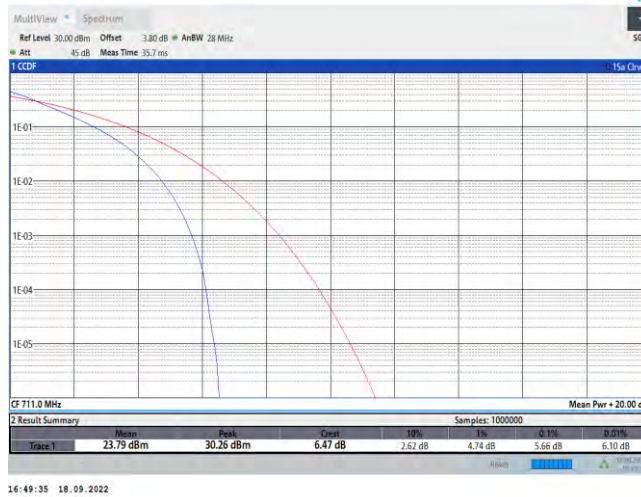
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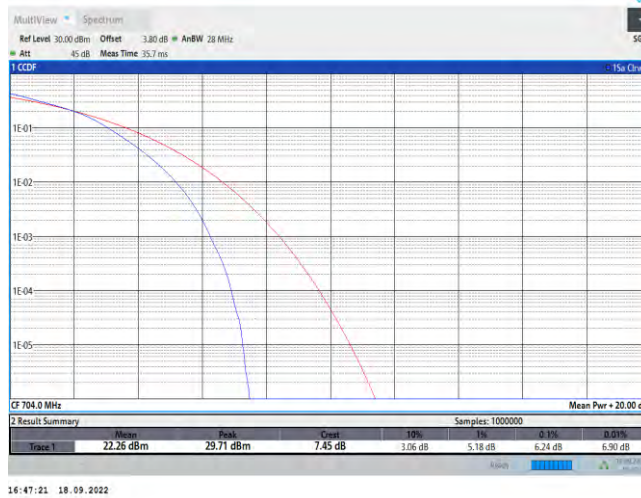
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Band12-10MHz-QPSK-23130-50RB#0



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

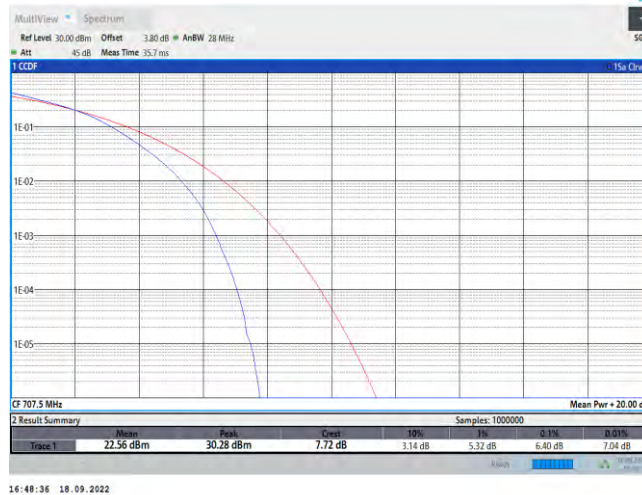


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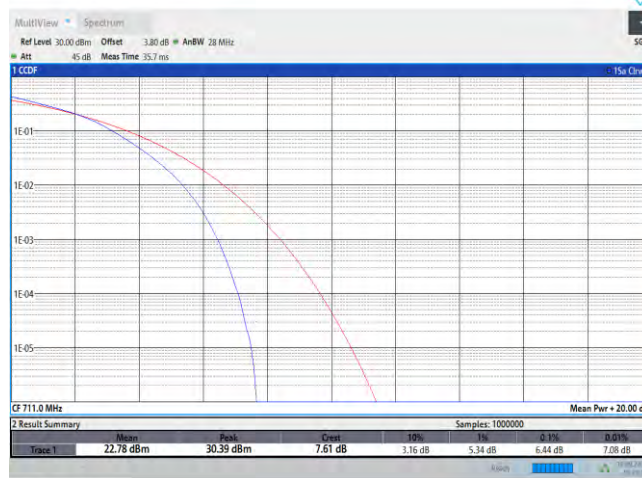
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Band12-10MHz-16QAM-23095-50RB#0



16:48:36 18.09.2022

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



16:49:52 18.09.2022

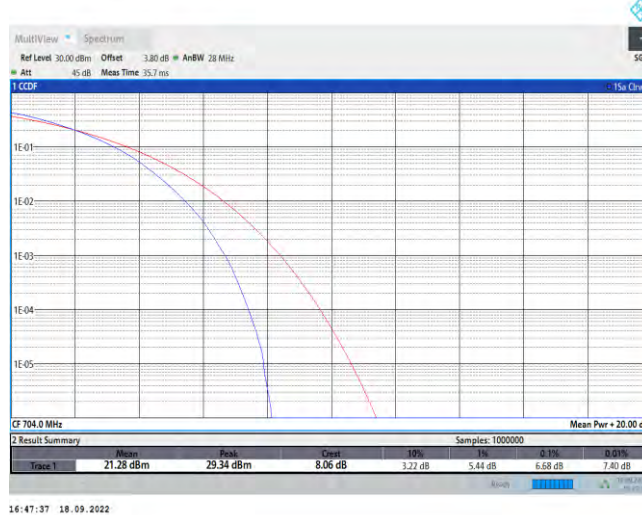


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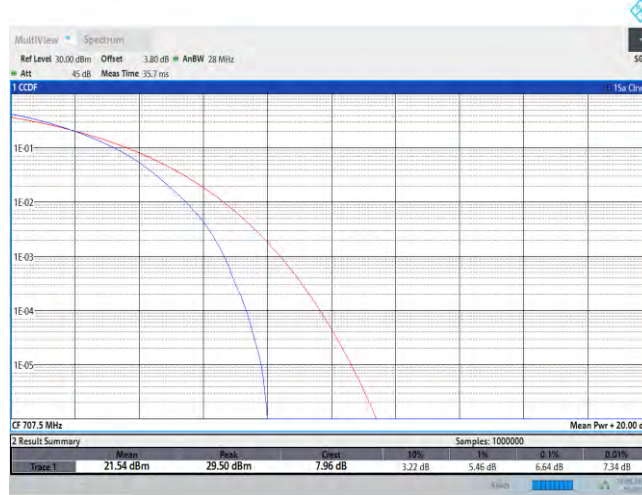
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Band12-10MHz-64QAM-23060-50RB#0



16:47:37 18.09.2022

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



16:48:53 18.09.2022



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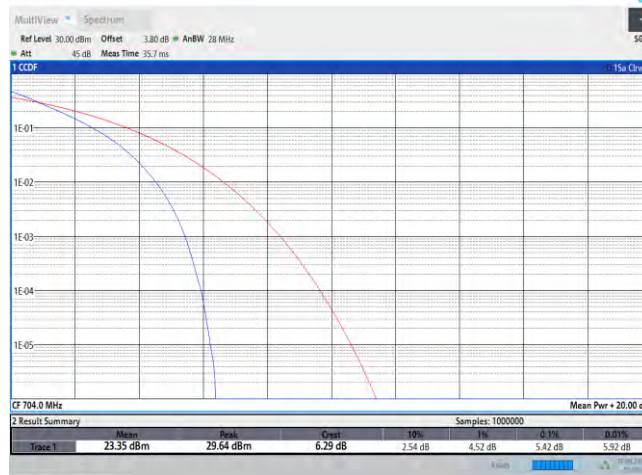
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Band12-10MHz-64QAM-23130-50RB#0



16:50:08 18.09.2022

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



16:48:04 18.09.2022

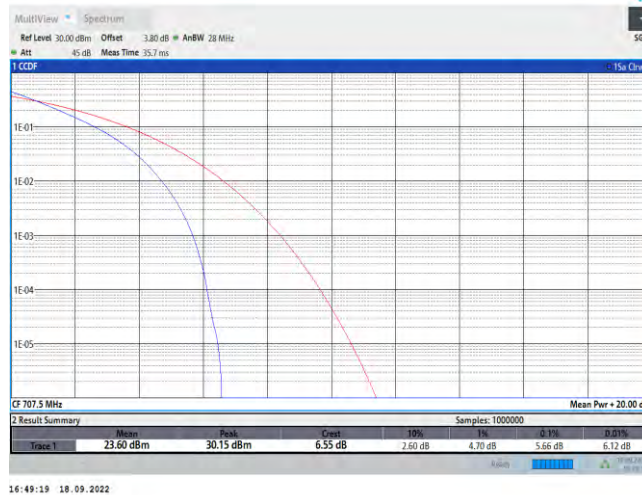


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Band12-10MHz--23095-50RB#0



16:49:19 18.09.2022

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



16:50:34 18.09.2022



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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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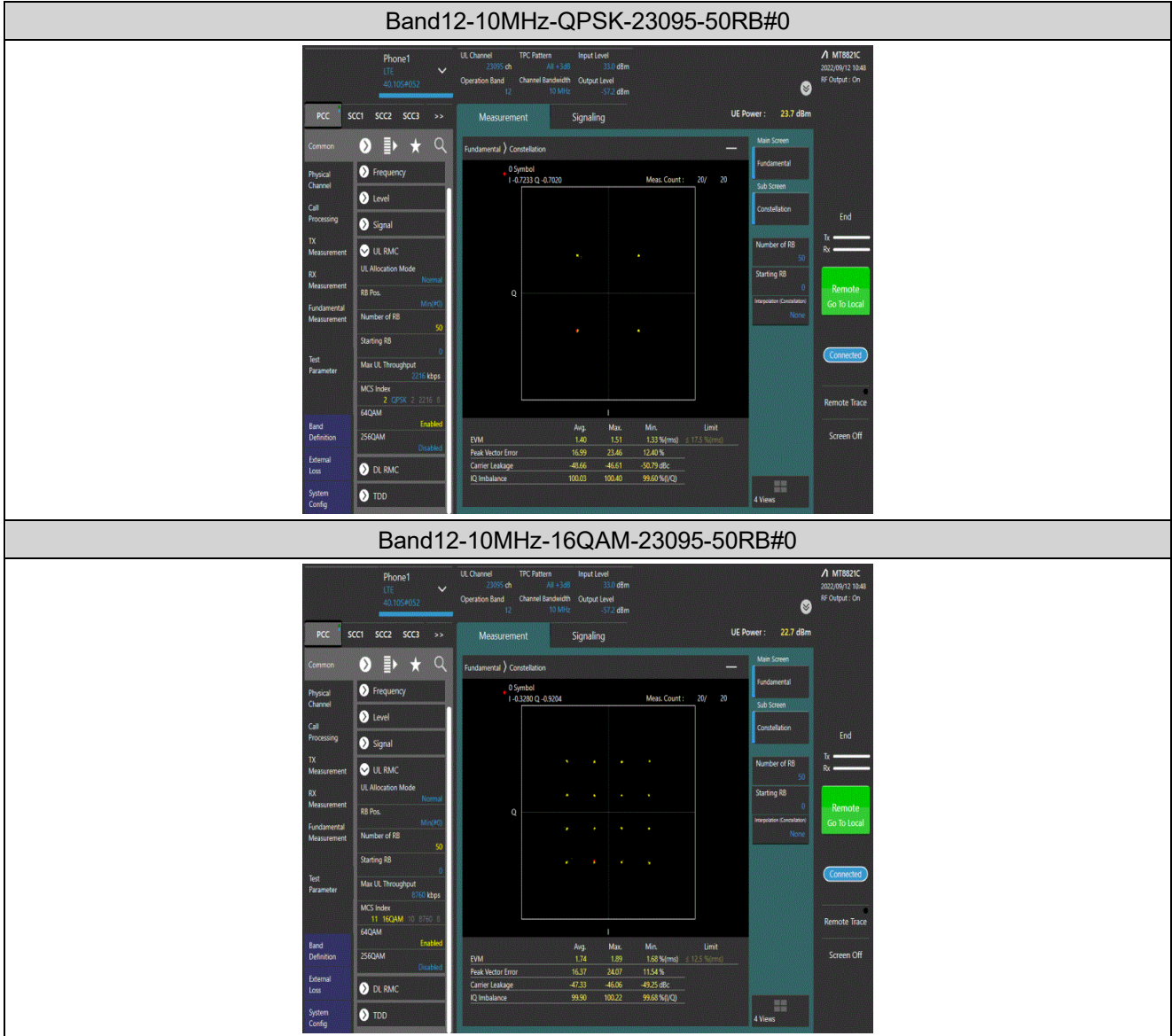
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Test Graphs

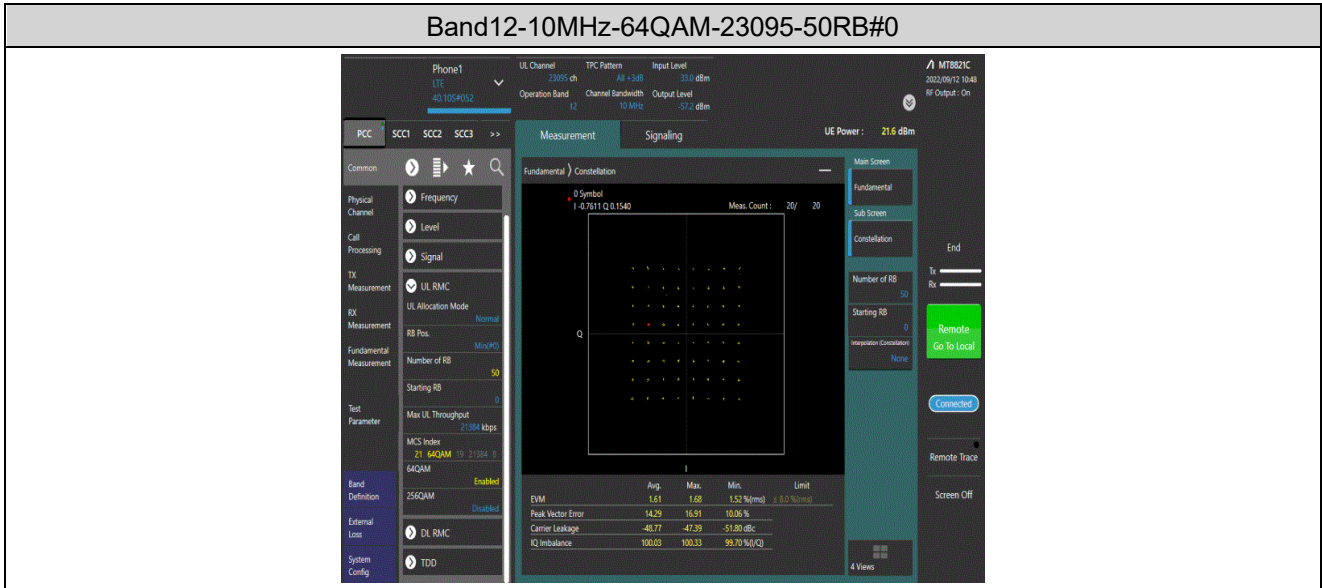


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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.089	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.09	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.29	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.098	1.29	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.096	1.29	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.094	1.29	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.096	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.69	2.92	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.687	2.92	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.685	2.91	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.682	2.95	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.683	2.92	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.678	2.92	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.686	2.91	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.683	2.92	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.68	2.92	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.465	4.86	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.469	4.83	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.466	4.83	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.468	4.87	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.462	4.87	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.468	4.88	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.474	4.86	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.475	4.87	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.474	4.86	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.894	9.52	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.926	9.56	PASS



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Band12	10MHz	QPSK	23130	50RB#0	8.965	9.62	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.884	9.76	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.921	9.58	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.935	9.60	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.895	9.72	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.922	9.58	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.953	9.68	PASS



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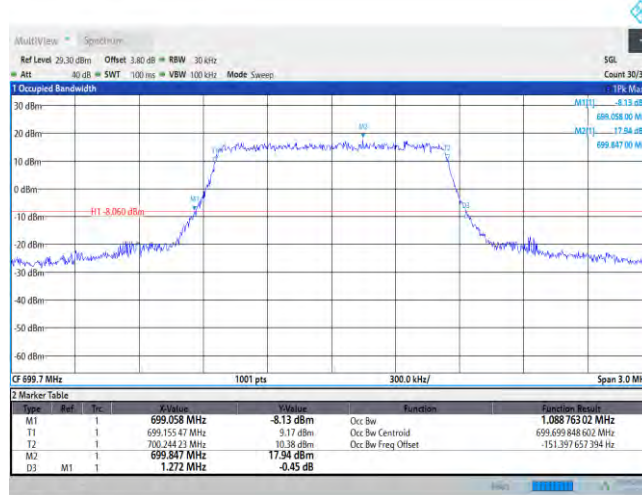
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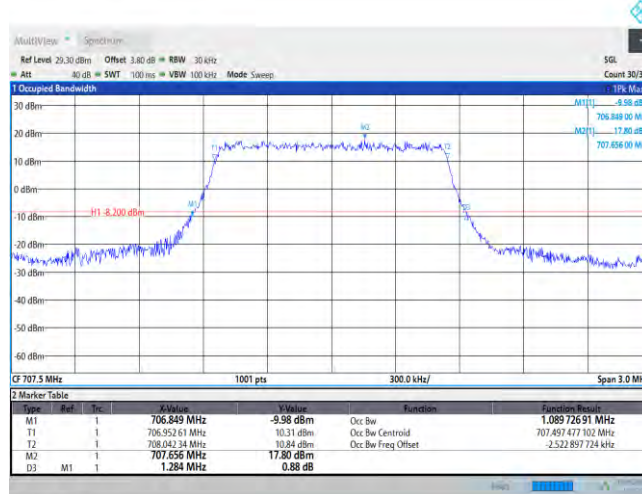
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Test Graphs

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



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

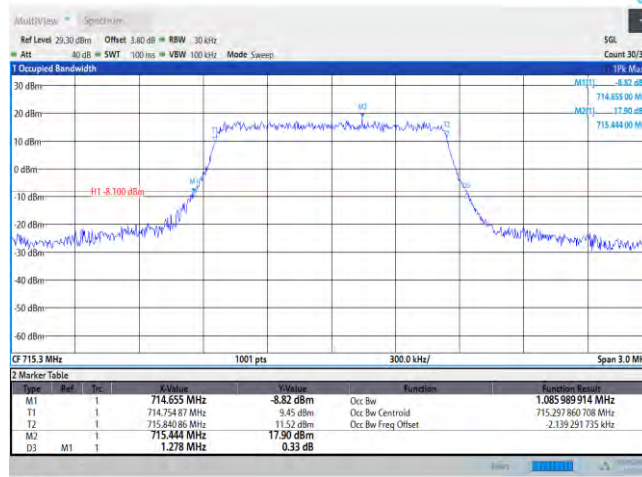


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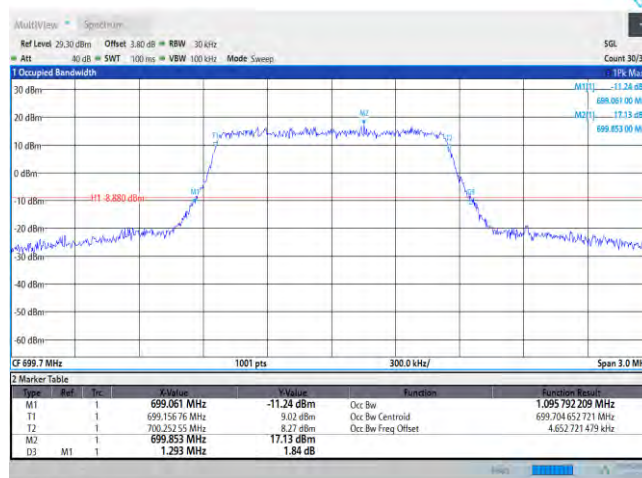
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Band12-1.4MHz-QPSK-23173-6RB#0



14:16:47 10.09.2022

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

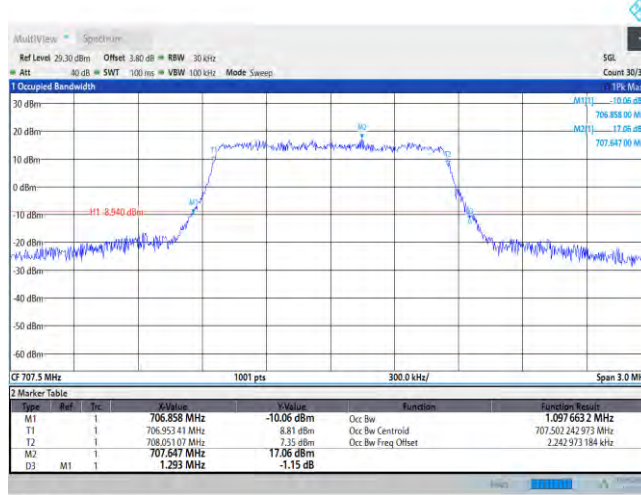


14:15:26 10.09.2022



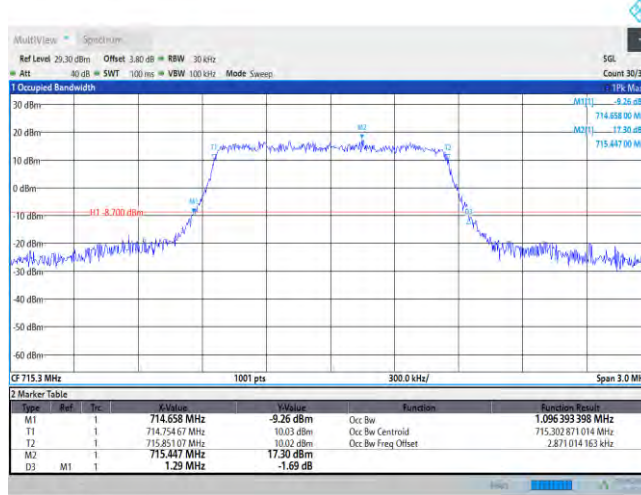
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Band12-1.4MHz-16QAM-23095-6RB#0



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



14:17:03 10.09.2022



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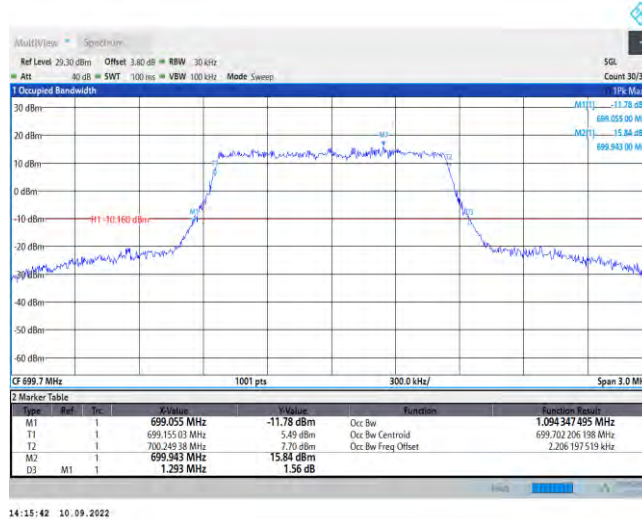
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Band12-1.4MHz-64QAM-23017-6RB#0



14:15:42 10.09.2022

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



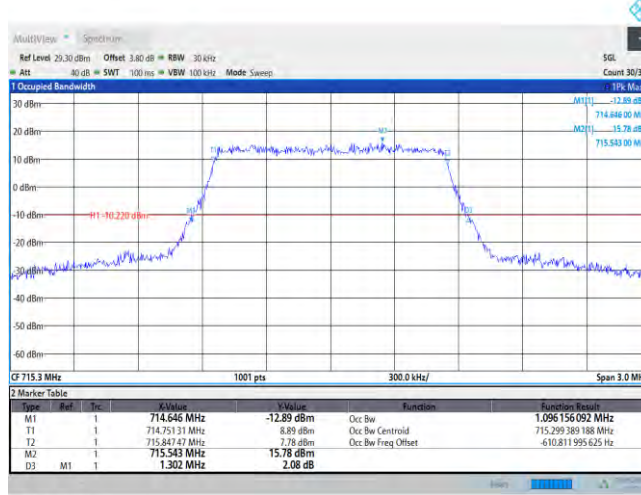
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14:17:19 10.09.2022

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



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



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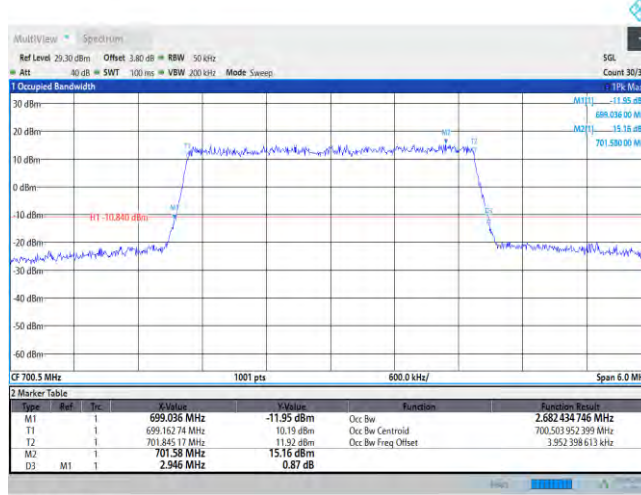
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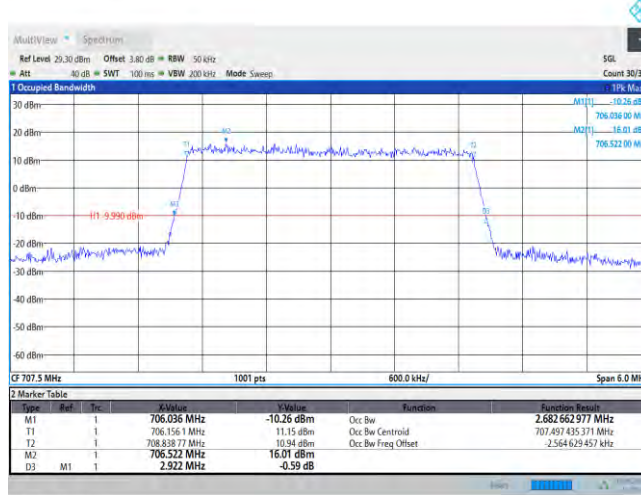


Band12-3MHz-16QAM-23025-15RB#0



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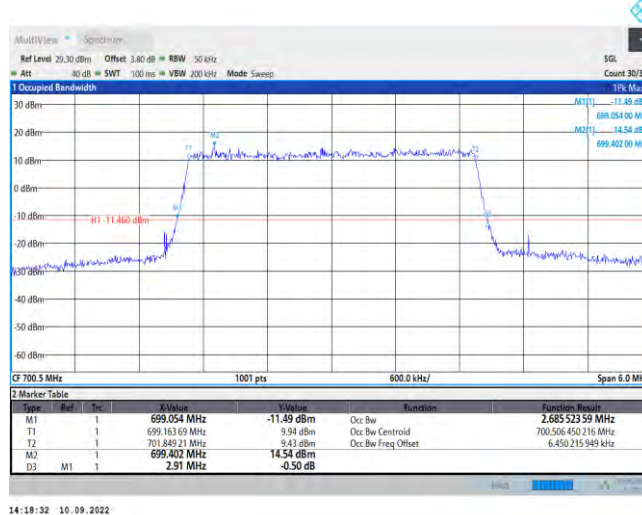
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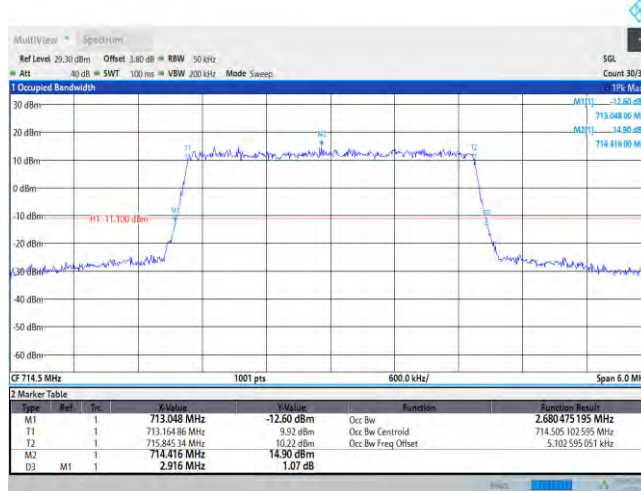
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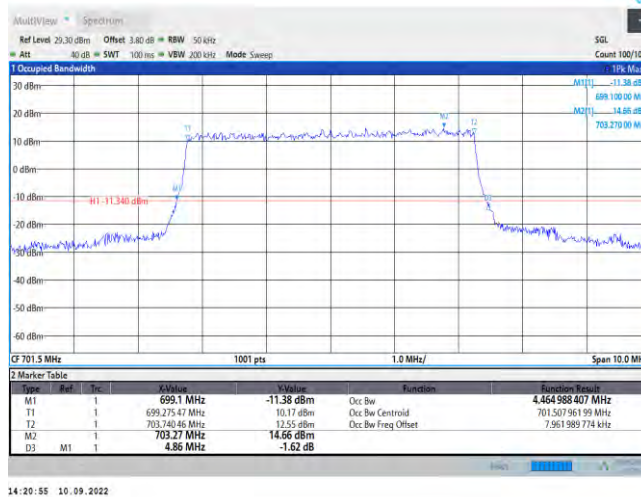


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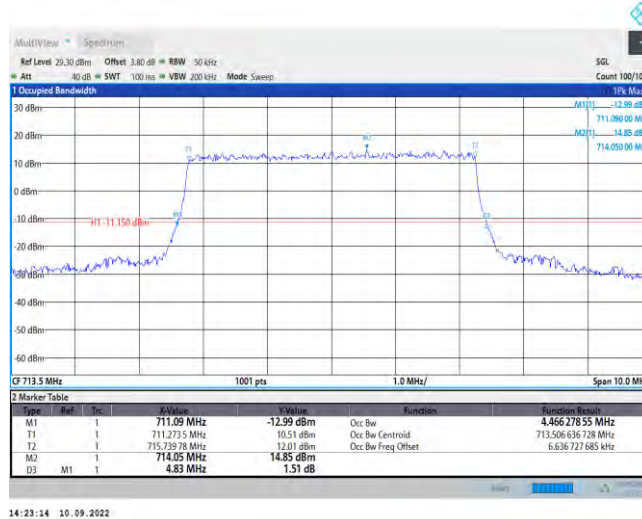
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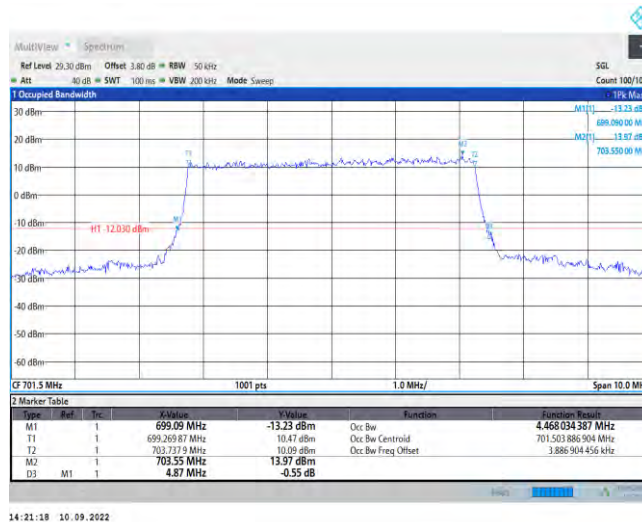
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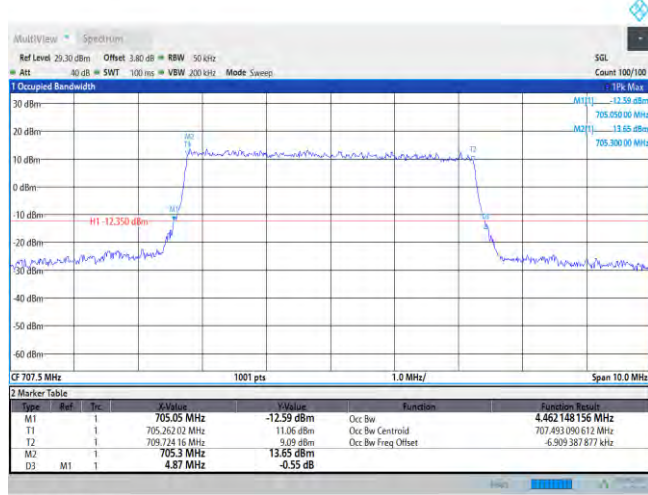
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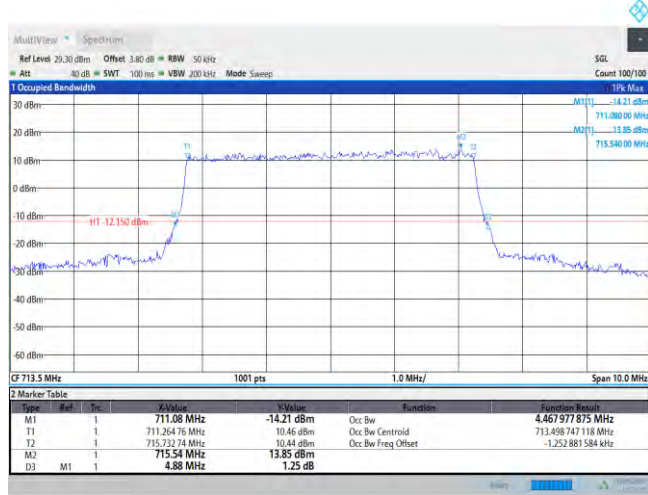
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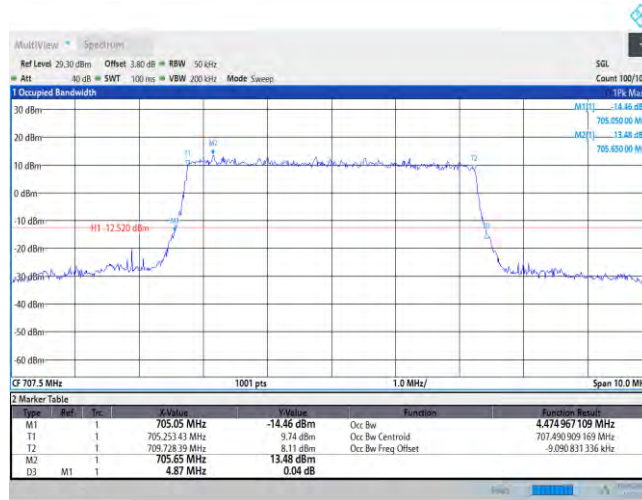
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Band12-5MHz-64QAM-23035-25RB#0



14:21:42 10.09.2022

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



14:22:51 10.09.2022

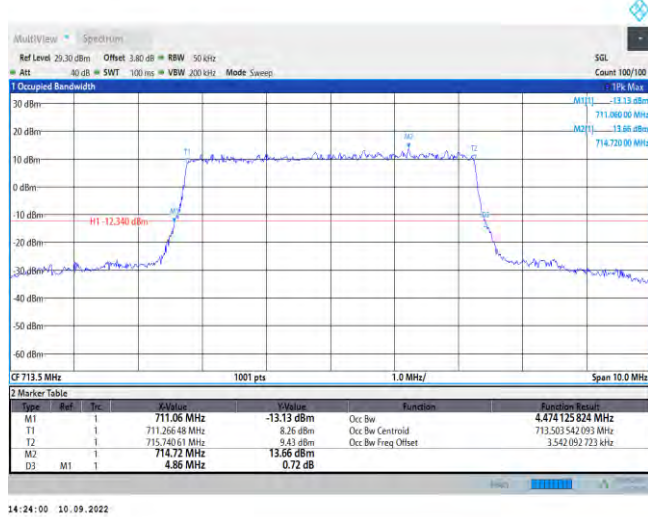


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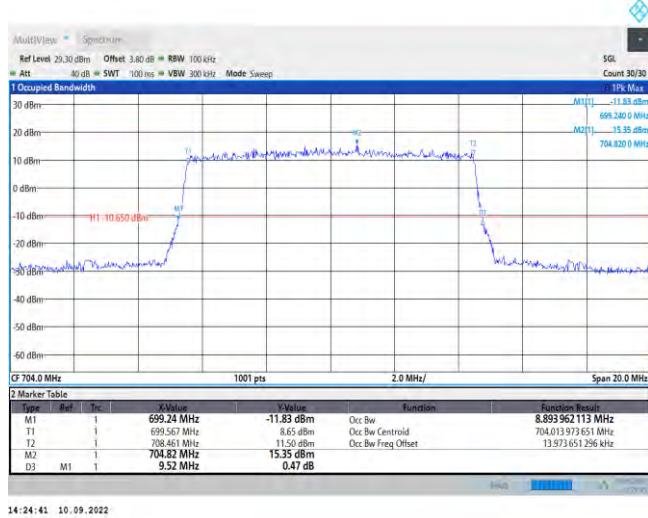
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Band12-5MHz-64QAM-23155-25RB#0



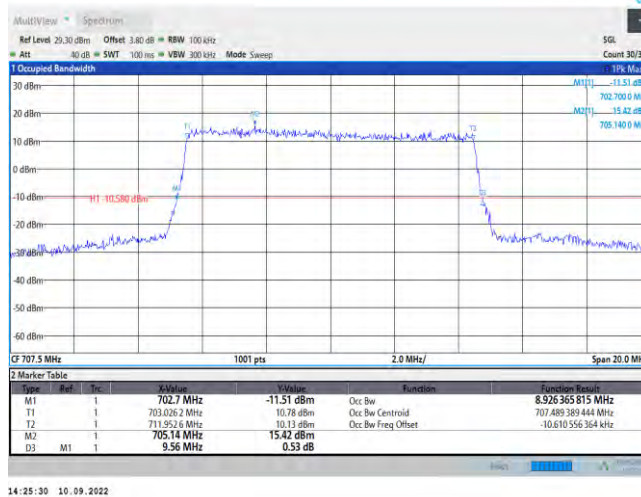
Band12-10MHz-QPSK-23060-50RB#0



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



14:25:30 10.09.2022

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



14:26:18 10.09.2022

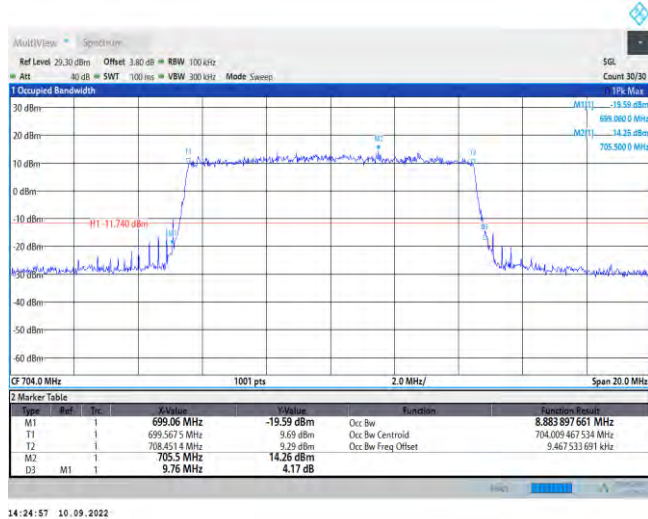


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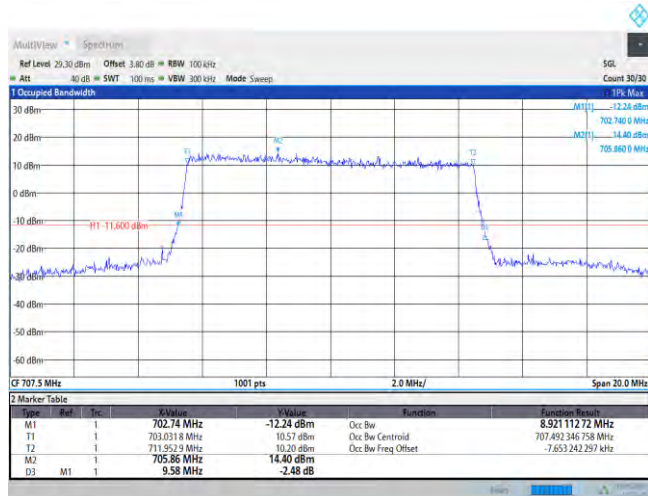
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Band12-10MHz-16QAM-23060-50RB#0



14:24:57 10.09.2022

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



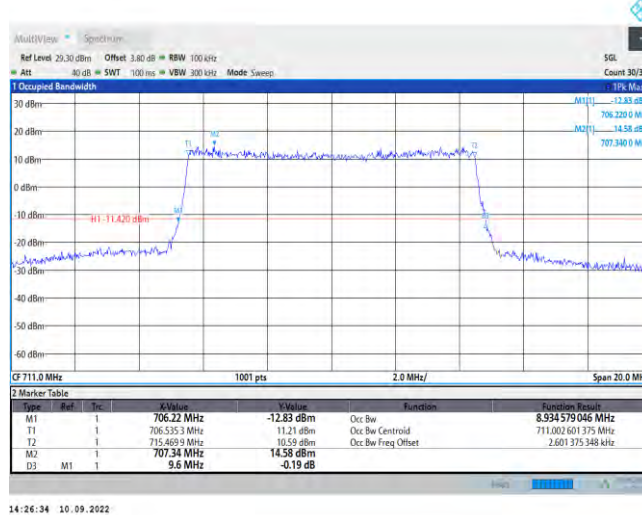
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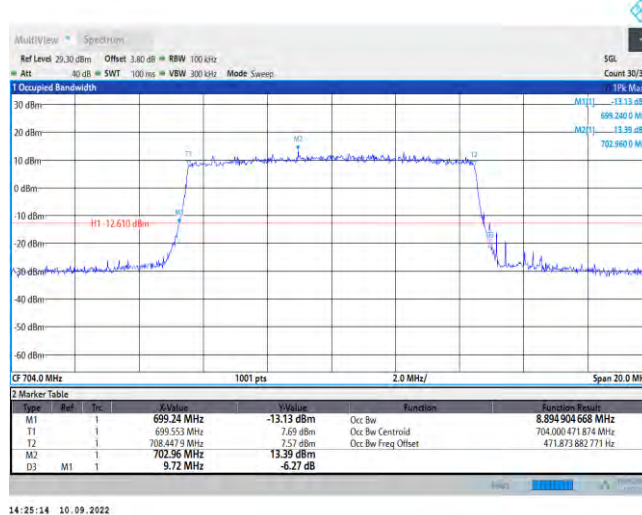
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Band12-10MHz-16QAM-23130-50RB#0



14:26:34 10.09.2022

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



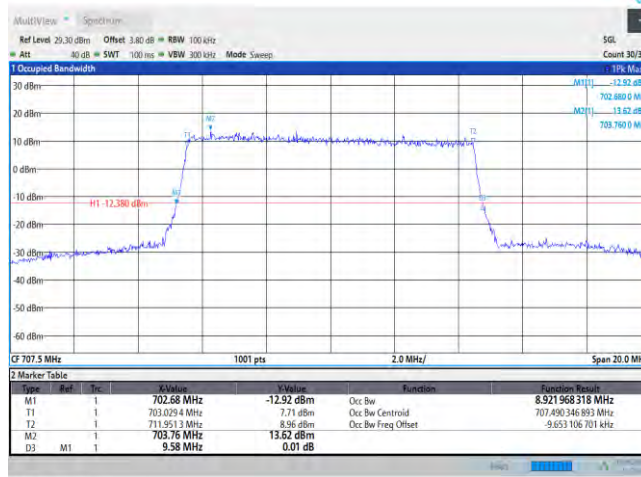
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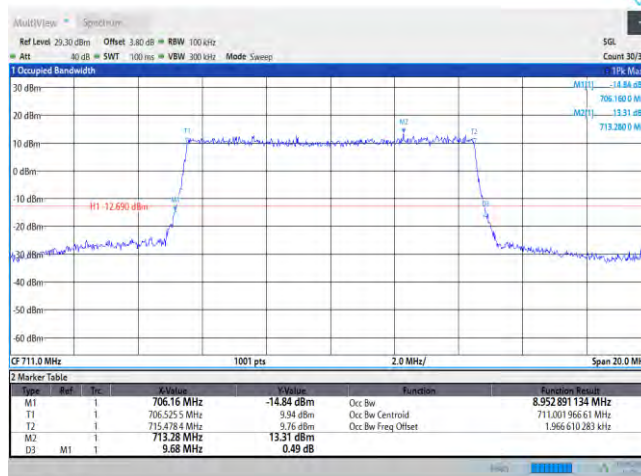
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Band12-10MHz-64QAM-23095-50RB#0



14:26:02 10.09.2022

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



14:26:50 10.09.2022



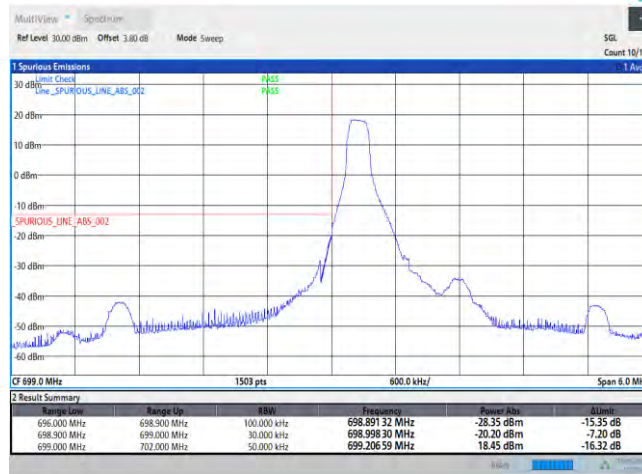
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## Band Edge

## Test Graphs

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



14:27:44 10.09.2022

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



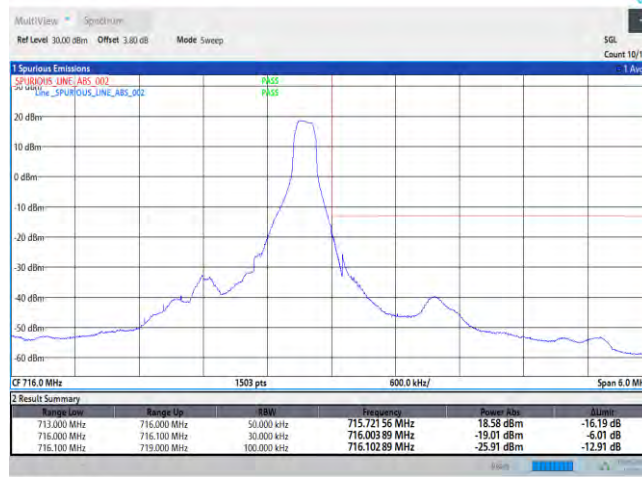
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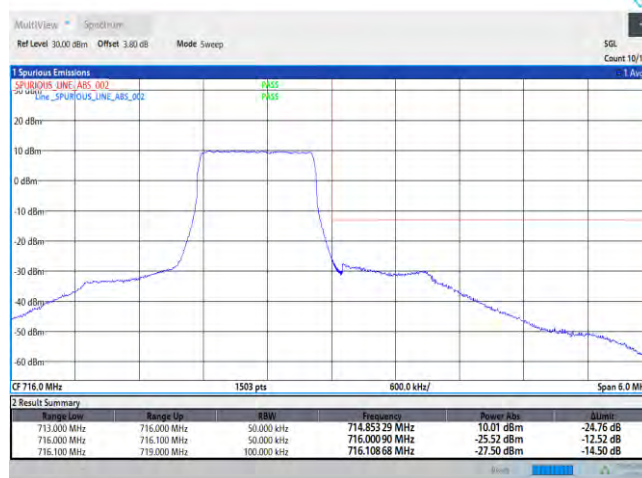
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Band12-1.4MHz-QPSK-23173-1RB#5



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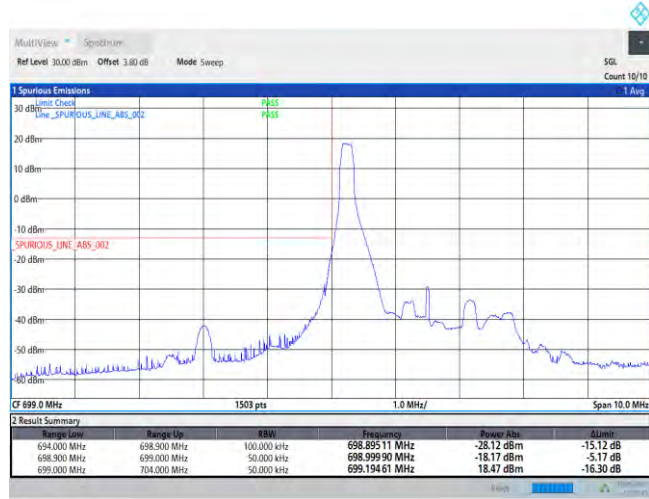


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Band12-3MHz-QPSK-23025-1RB#0



14:30:42 10.09.2022

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



14:31:14 10.09.2022



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



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



14:32:40 10.09.2022



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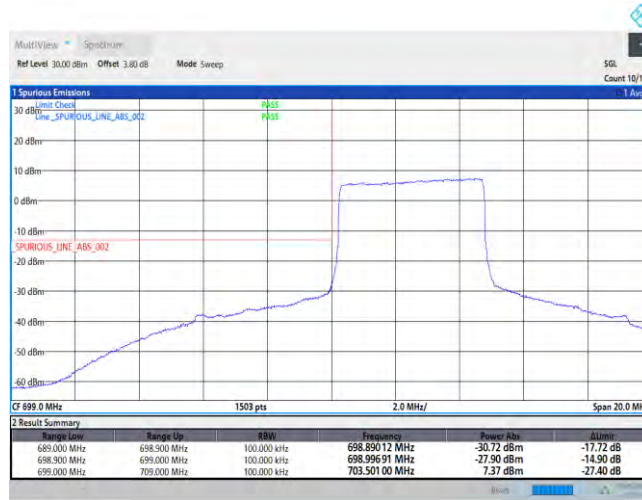


Band12-5MHz-QPSK-23035-1RB#0



14:33:22 10.09.2022

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



14:33:45 10.09.2022



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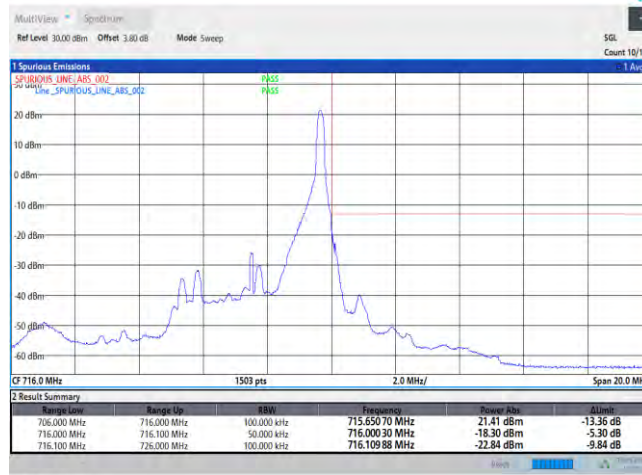
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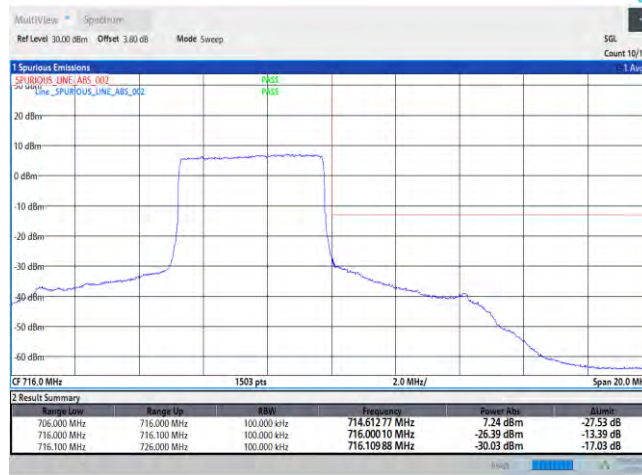
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Band12-5MHz-QPSK-23155-1RB#24



14:34:27 10.09.2022

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



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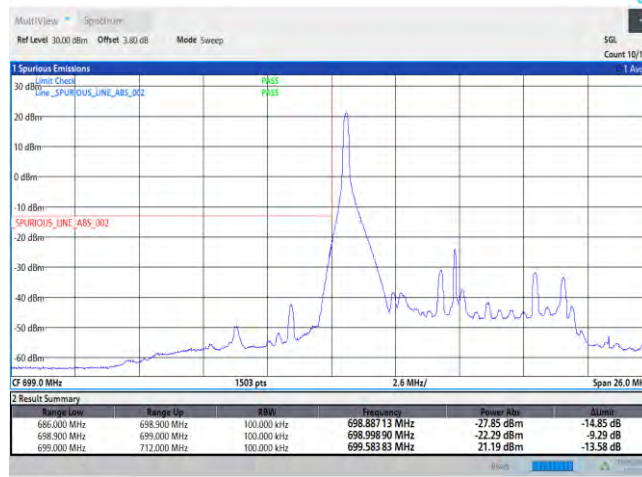


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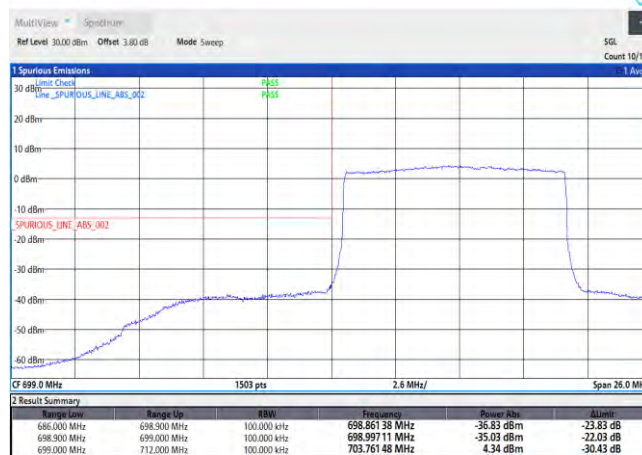
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Band12-10MHz-QPSK-23060-1RB#0



14:35:32 10.09.2022

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



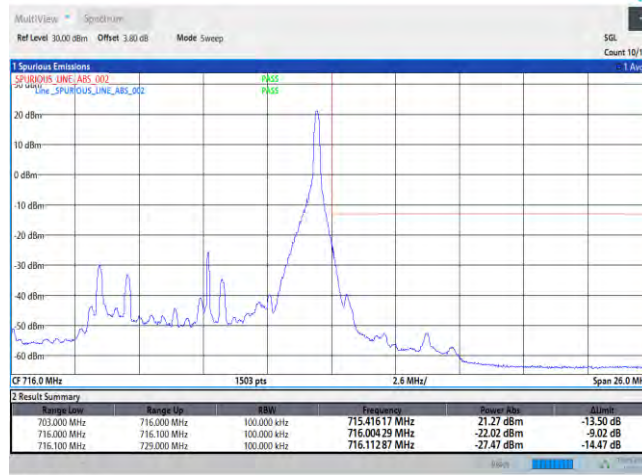
14:35:55 10.09.2022



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



14:36:37 10.09.2022

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



14:37:00 10.09.2022



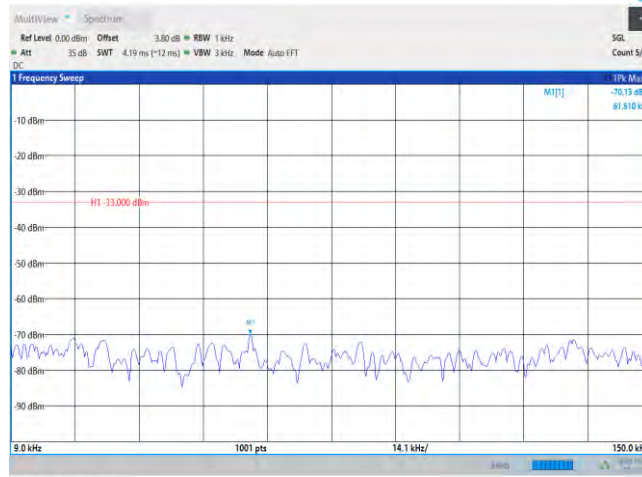
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## Conducted Spurious Emission

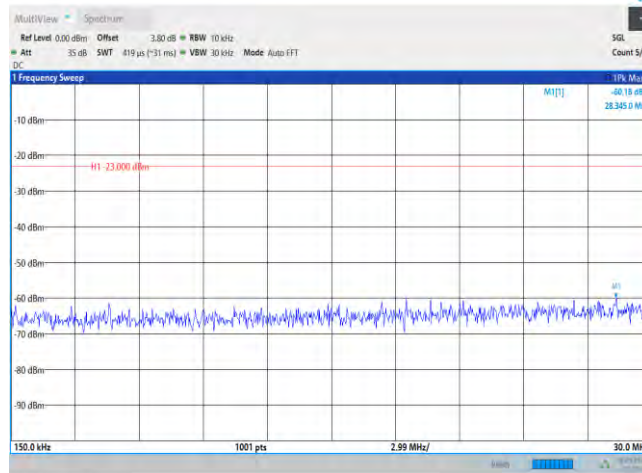
### Test Graphs

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



19:23:57 18.09.2022

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



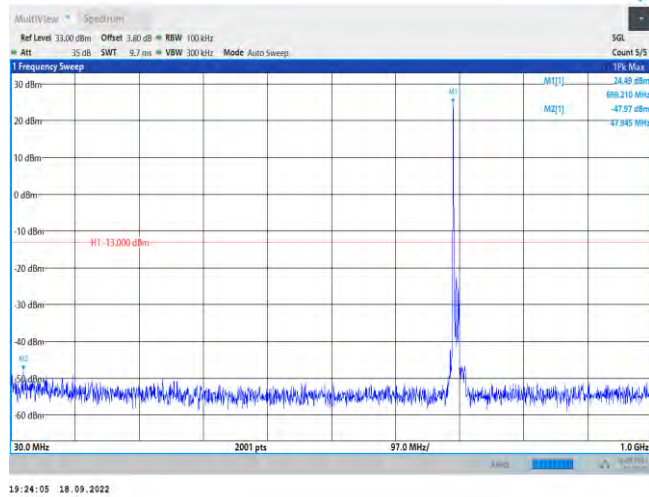
19:24:01 18.09.2022



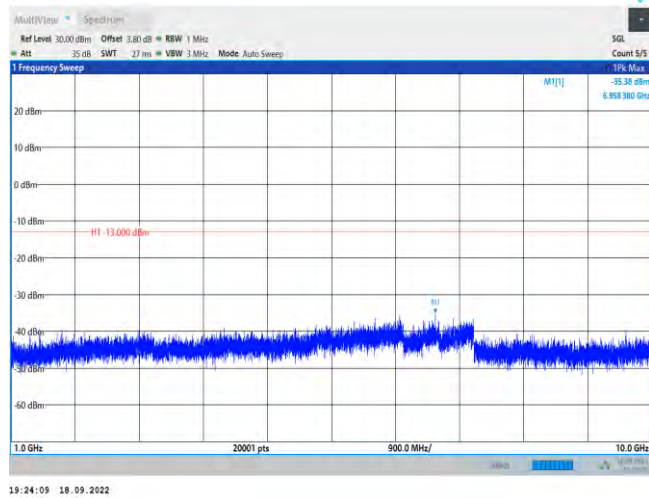
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

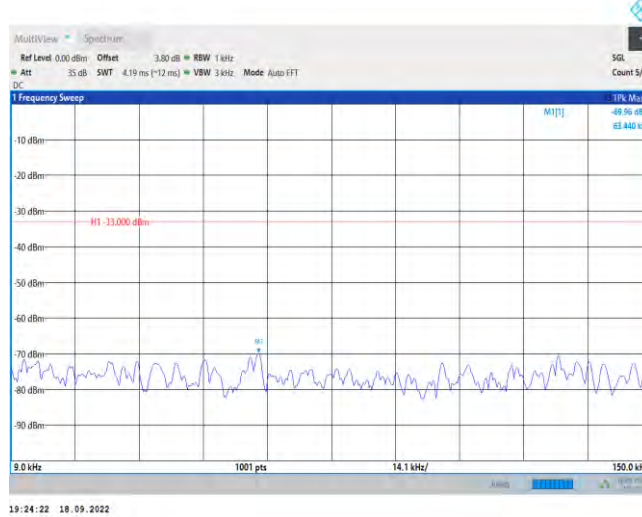


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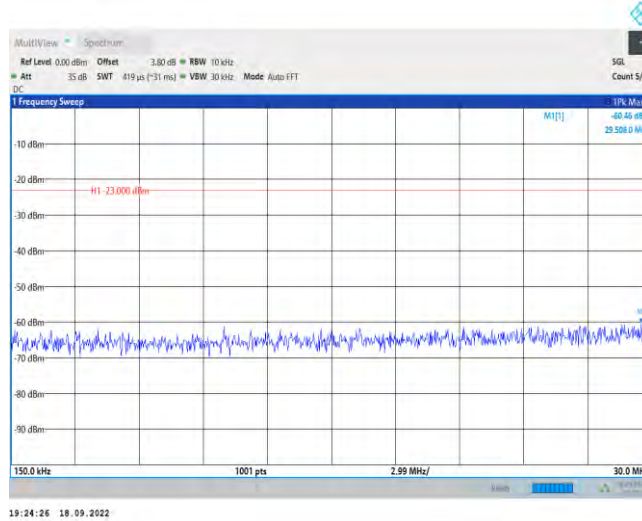
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



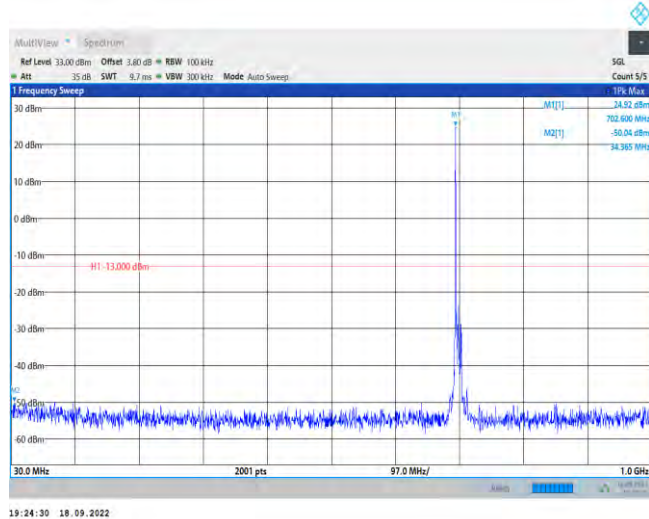
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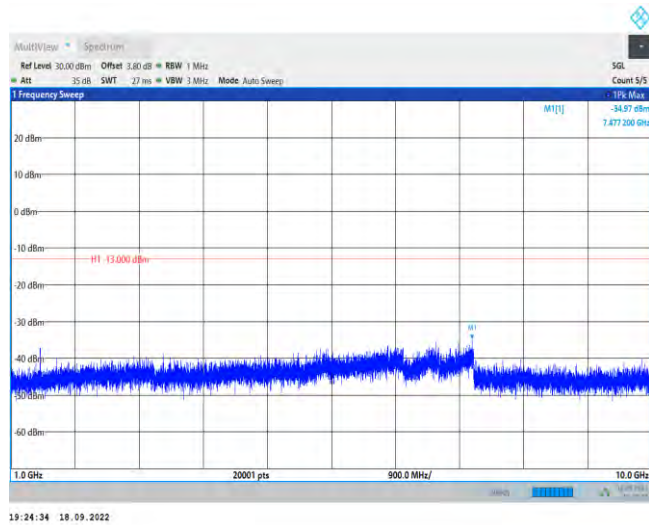
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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

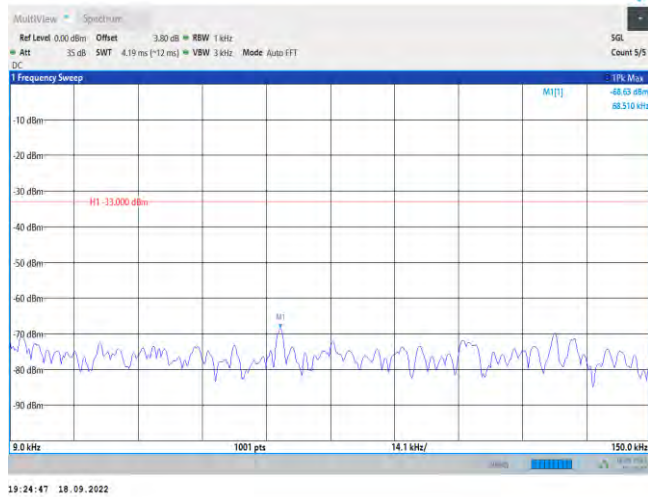


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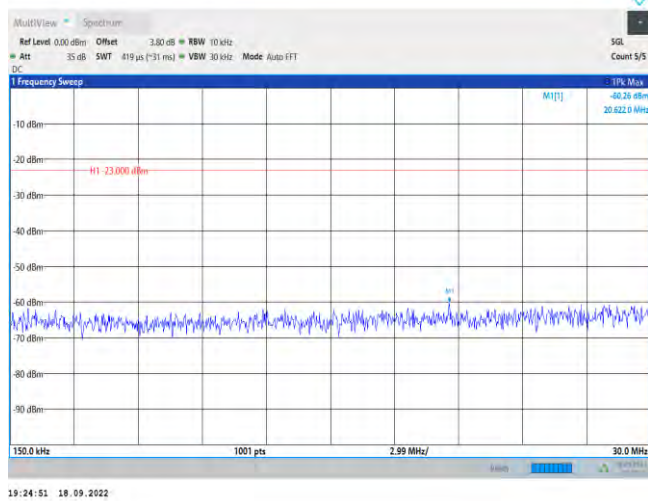
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

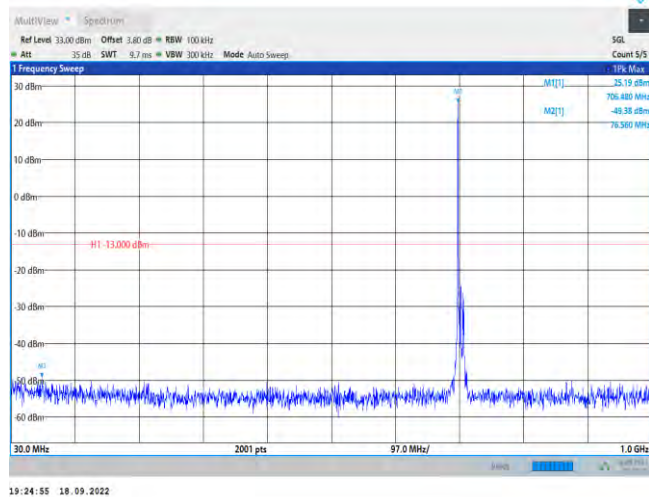


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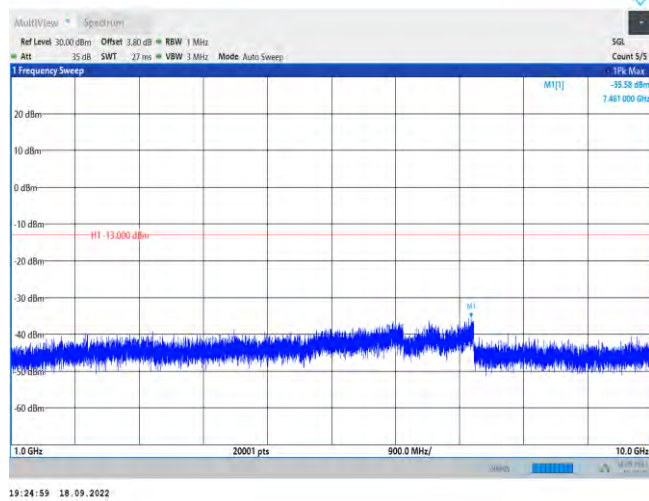
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band 12\_ TM1

Test Channel = Low ANT0

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	67.81	-48.00	25.62	-49.83	-13.00	36.83	214	227	Horizontal
2	2098.7700	62.34	-47.71	26.99	-53.65	-13.00	40.65	251	254	Horizontal
3	2798.3600	52.63	-46.92	28.48	-61.07	-13.00	48.07	163	121	Horizontal
4	3497.9500	56.40	-46.54	29.52	-55.88	-13.00	42.88	158	280	Horizontal
5	4197.5400	48.51	-45.96	31.10	-61.61	-13.00	48.61	178	187	Horizontal
6	4897.1300	50.13	-45.58	32.59	-58.12	-13.00	45.12	176	3	Horizontal

Test Band = LTE Band 12\_ TM1

Test Channel = Low ANT0

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	59.98	-48.00	25.62	-57.66	-13.00	44.66	232	293	Vertical
2	2098.7700	61.26	-47.71	26.99	-54.73	-13.00	41.73	162	360	Vertical
3	2798.3600	50.25	-46.92	28.48	-63.45	-13.00	50.45	176	226	Vertical
4	3497.9500	52.81	-46.54	29.52	-59.47	-13.00	46.47	185	319	Vertical
5	4197.5400	48.70	-45.96	31.10	-61.42	-13.00	48.42	215	307	Vertical
6	4897.1300	49.70	-45.58	32.59	-58.55	-13.00	45.55	226	201	Vertical



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**Test Band = LTE Band 12\_ TM1**  
**Test Channel = Middle ANT0**

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	56.88	-48.02	25.61	-60.79	-13.00	47.79	163	0	Horizontal
2	2109.2700	58.66	-47.71	27.02	-57.28	-13.00	44.28	152	2	Horizontal
3	2812.3600	50.57	-46.88	28.53	-63.03	-13.00	50.03	184	356	Horizontal
4	3515.4500	53.31	-46.51	29.53	-58.92	-13.00	45.92	216	293	Horizontal
5	4218.5400	48.79	-45.93	31.14	-61.26	-13.00	48.26	227	0	Horizontal
6	4921.6300	49.02	-45.63	32.66	-59.21	-13.00	46.21	219	306	Horizontal

**Test Band = LTE Band 12\_ TM1**  
**Test Channel = Middle ANT0**

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	55.14	-48.02	25.61	-62.53	-13.00	49.53	225	230	Vertical
2	2109.2700	51.90	-47.71	27.02	-64.04	-13.00	51.04	241	230	Vertical
3	2812.3600	51.48	-46.88	28.53	-62.12	-13.00	49.12	163	358	Vertical
4	3515.4500	51.06	-46.51	29.53	-61.17	-13.00	48.17	187	348	Vertical
5	4218.5400	48.75	-45.93	31.14	-61.30	-13.00	48.30	194	360	Vertical
6	4921.6300	49.14	-45.63	32.66	-59.09	-13.00	46.09	265	298	Vertical



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**Test Band = LTE Band 12\_ TM1**

**Test Channel = High ANTO**

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	56.74	-48.04	25.60	-60.96	-13.00	47.96	231	281	Horizontal
2	2119.7700	58.33	-47.70	27.06	-57.57	-13.00	44.57	156	0	Horizontal
3	2826.3600	51.48	-46.83	28.60	-62.01	-13.00	49.01	185	214	Horizontal
4	3532.9500	51.91	-46.47	29.55	-60.27	-13.00	47.27	172	0	Horizontal
5	4239.5400	49.28	-45.89	31.18	-60.69	-13.00	47.69	163	240	Horizontal
6	4946.1300	49.64	-45.69	32.73	-58.58	-13.00	45.58	159	0	Horizontal

**Test Band = LTE Band 12\_ TM1**

**Test Channel = High ANTO**

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	52.04	-48.04	25.60	-65.66	-13.00	52.66	163	108	Vertical
2	2119.7700	56.22	-47.70	27.06	-59.68	-13.00	46.68	215	281	Vertical
3	2826.3600	51.43	-46.83	28.60	-62.06	-13.00	49.06	229	4	Vertical
4	3532.9500	53.14	-46.47	29.55	-59.04	-13.00	46.04	186	307	Vertical
5	4239.5400	49.04	-45.89	31.18	-60.93	-13.00	47.93	147	360	Vertical
6	4946.1300	49.23	-45.69	32.73	-58.99	-13.00	45.99	158	335	Vertical



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**Test Band = LTE Band 12\_ TM1**  
**Test Channel = Low ANT1**

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	63.72	-48.00	25.62	-53.92	-13.00	40.92	234	212	Horizontal
2	2098.7700	60.36	-47.71	26.99	-55.63	-13.00	42.63	256	6	Horizontal
3	2798.3600	51.33	-46.92	28.48	-62.37	-13.00	49.37	156	144	Horizontal
4	3497.9500	53.43	-46.54	29.52	-58.85	-13.00	45.85	185	279	Horizontal
5	4197.5400	48.15	-45.96	31.10	-61.97	-13.00	48.97	142	0	Horizontal
6	4897.1300	50.06	-45.58	32.59	-58.19	-13.00	45.19	179	357	Horizontal

**Test Band = LTE Band 12\_ TM1**  
**Test Channel = Low ANT1**

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	58.36	-48.00	25.62	-59.28	-13.00	46.28	241	242	Vertical
2	2098.7700	62.07	-47.71	26.99	-53.92	-13.00	40.92	259	282	Vertical
3	2798.3600	50.56	-46.92	28.48	-63.14	-13.00	50.14	226	148	Vertical
4	3497.9500	55.59	-46.54	29.52	-56.69	-13.00	43.69	185	294	Vertical
5	4197.5400	49.48	-45.96	31.10	-60.64	-13.00	47.64	171	54	Vertical
6	4897.1300	49.71	-45.58	32.59	-58.54	-13.00	45.54	169	186	Vertical



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**Test Band = LTE Band 12\_ TM1**  
**Test Channel = Middle ANT1**

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	59.81	-48.02	25.61	-57.86	-13.00	44.86	162	135	Horizontal
2	2109.2700	57.17	-47.71	27.02	-58.77	-13.00	45.77	181	0	Horizontal
3	2812.3600	51.54	-46.88	28.53	-62.06	-13.00	49.06	194	215	Horizontal
4	3515.4500	53.85	-46.51	29.53	-58.38	-13.00	45.38	157	282	Horizontal
5	4218.5400	50.14	-45.93	31.14	-59.91	-13.00	46.91	256	348	Horizontal
6	4921.6300	49.70	-45.63	32.66	-58.53	-13.00	45.53	281	348	Horizontal

**Test Band = LTE Band 12\_ TM1**  
**Test Channel = Middle ANT1**

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	54.61	-48.02	25.61	-63.06	-13.00	50.06	224	293	Vertical
2	2109.2700	52.34	-47.71	27.02	-63.60	-13.00	50.60	146	360	Vertical
3	2812.3600	50.94	-46.88	28.53	-62.66	-13.00	49.66	186	356	Vertical
4	3515.4500	51.18	-46.51	29.53	-61.05	-13.00	48.05	191	344	Vertical
5	4218.5400	49.23	-45.93	31.14	-60.82	-13.00	47.82	241	202	Vertical
6	4921.6300	50.57	-45.63	32.66	-57.66	-13.00	44.66	228	12	Vertical



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**Test Band = LTE Band 12\_ TM1**

**Test Channel = High ANT1**

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	58.46	-48.04	25.60	-59.24	-13.00	46.24	166	281	Horizontal
2	2119.7700	58.46	-47.70	27.06	-57.44	-13.00	44.44	152	335	Horizontal
3	2826.3600	51.29	-46.83	28.60	-62.20	-13.00	49.20	215	187	Horizontal
4	3532.9500	52.59	-46.47	29.55	-59.59	-13.00	46.59	229	357	Horizontal
5	4239.5400	49.30	-45.89	31.18	-60.67	-13.00	47.67	276	294	Horizontal
6	4946.1300	48.55	-45.69	32.73	-59.67	-13.00	46.67	234	240	Horizontal

**Test Band = LTE Band 12\_ TM1**

**Test Channel = High ANT1**

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	52.20	-48.04	25.60	-65.50	-13.00	52.50	224	305	Vertical
2	2119.7700	54.69	-47.70	27.06	-61.21	-13.00	48.21	271	351	Vertical
3	2826.3600	50.67	-46.83	28.60	-62.82	-13.00	49.82	186	12	Vertical
4	3532.9500	51.43	-46.47	29.55	-60.75	-13.00	47.75	173	331	Vertical
5	4239.5400	50.09	-45.89	31.18	-59.88	-13.00	46.88	159	25	Vertical
6	4946.1300	48.89	-45.69	32.73	-59.33	-13.00	46.33	182	359	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## 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	-4.10	-0.005795	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-1.80	-0.002544	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-6.80	-0.009611	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-2.30	-0.003251	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-5.90	-0.008339	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.30	-0.004664	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.10	-0.002968	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-4.80	-0.006784	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-4.00	-0.005654	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-6.00	-0.008481	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.00	0.000000	PASS

---End of Attachment---



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