

Appendix B.5

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	22.95	24.75	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.01	24.81	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.93	24.73	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.99	23.79	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.91	24.71	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.04	24.84	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.90	24.7	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.97	23.77	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.87	24.67	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.90	24.7	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.83	24.63	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.96	23.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.31	24.11	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.27	24.07	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.09	23.89	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.07	22.87	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.15	23.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.33	24.13	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.27	24.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.06	22.86	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.13	23.93	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.18	23.98	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.02	23.82	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.04	22.84	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.12	22.92	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.20	23	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.14	22.94	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	19.98	21.78	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.19	22.99	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.20	23	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.06	22.86	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.01	21.81	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.98	22.78	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.09	22.89	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.02	22.82	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.98	21.78	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.02	24.82	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.02	24.82	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.91	24.71	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.06	23.86	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.00	24.8	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.00	24.8	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.97	24.77	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.05	23.85	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.97	24.77	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.94	24.74	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.89	24.69	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.04	23.84	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.28	24.08	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.18	23.98	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.21	24.01	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.09	22.89	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.28	24.08	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.24	24.04	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.16	23.96	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.12	22.92	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.17	23.97	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.12	23.92	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.04	23.84	34.77	PASS



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Band12	3MHz	16QAM	23165	15RB#0	21.07	22.87	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.19	22.99	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.12	22.92	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.13	22.93	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.10	21.9	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.24	23.04	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.19	22.99	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.20	23	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.08	21.88	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.12	22.92	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.09	22.89	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.09	22.89	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.08	21.88	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.04	24.84	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.94	24.74	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.96	24.76	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.10	23.9	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.98	24.78	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.01	24.81	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.00	24.8	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.09	23.89	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.03	24.83	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.99	24.79	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.90	24.7	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.01	23.81	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.33	24.13	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.22	24.02	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.23	24.03	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.14	22.94	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.23	24.03	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.33	24.13	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.28	24.08	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	21.11	22.91	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.35	24.15	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.14	23.94	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.14	23.94	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.03	22.83	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.26	23.06	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.15	22.95	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.11	22.91	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.13	21.93	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.23	23.03	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.20	23	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.24	23.04	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.07	21.87	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.25	23.05	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.13	22.93	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.07	22.87	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.04	21.84	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.05	24.85	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.99	24.79	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.98	24.78	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.13	23.93	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.90	24.7	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.99	24.79	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.93	24.73	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.08	23.88	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.03	24.83	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.00	24.8	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.87	24.67	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.04	23.84	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.26	24.06	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.25	24.05	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.30	24.1	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	21.16	22.96	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.22	24.02	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.26	24.06	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.20	24	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.07	22.87	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.28	24.08	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.36	24.16	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.07	23.87	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.03	22.83	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.22	23.02	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.19	22.99	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.12	22.92	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.16	21.96	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.09	22.89	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.24	23.04	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.08	22.88	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.08	21.88	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.13	22.93	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.24	23.04	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.01	22.81	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.03	21.83	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.62	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.52	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.18	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.34	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.38	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.56	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.66	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.72	13	PASS



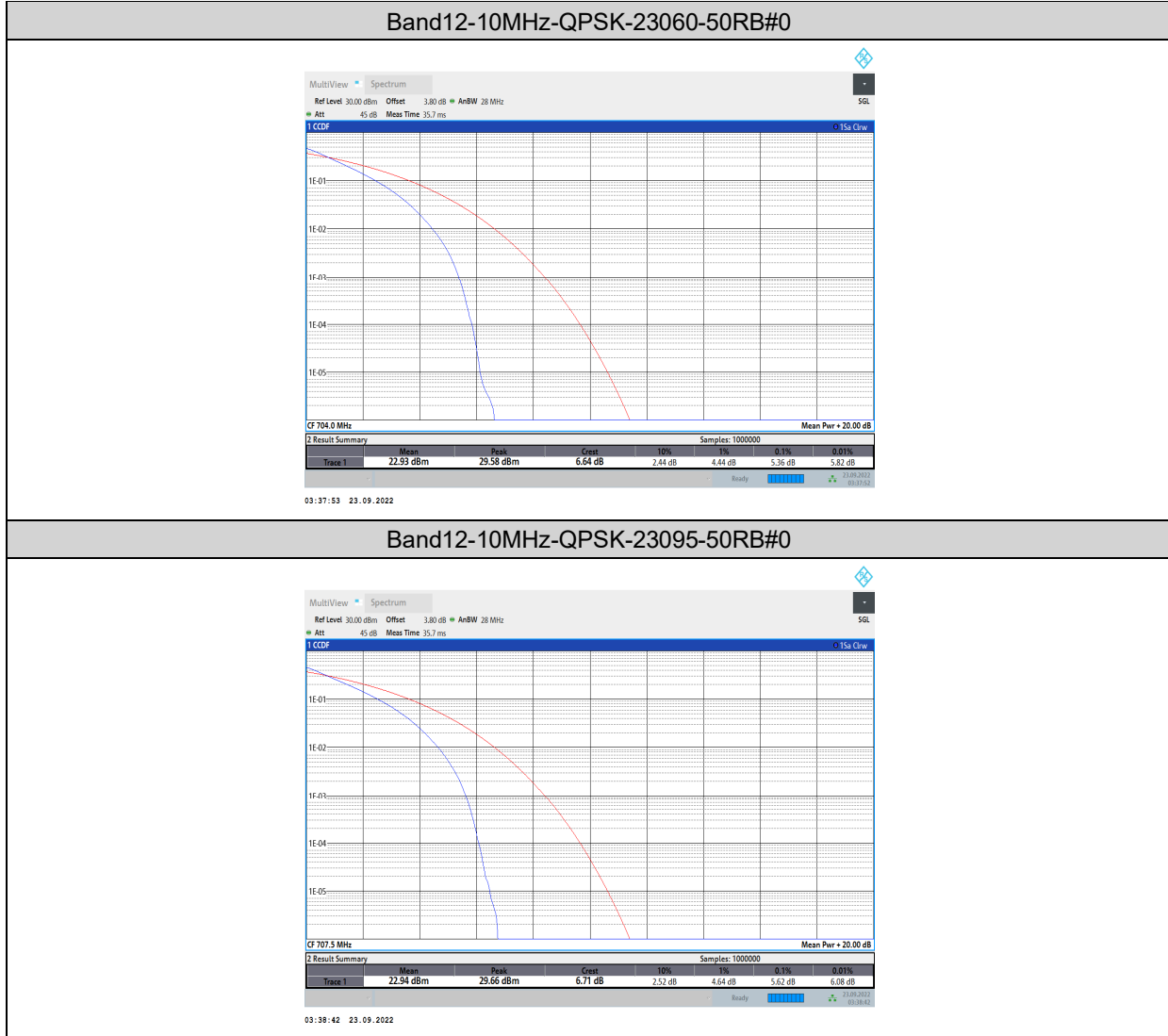
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Test Graphs

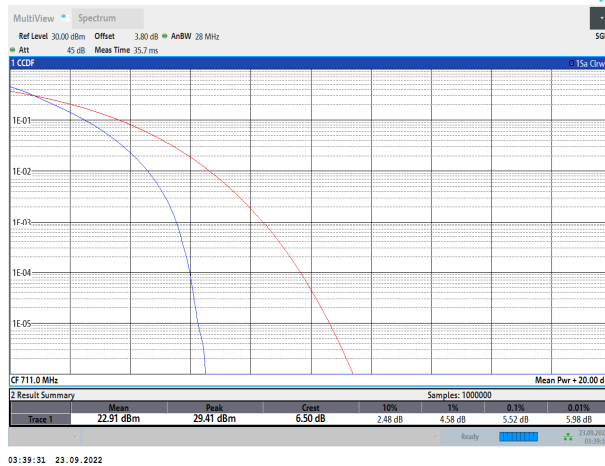


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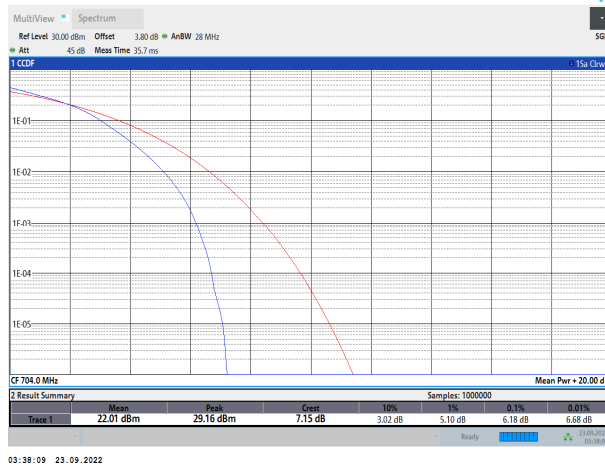
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Band12-10MHz-QPSK-23130-50RB#0



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

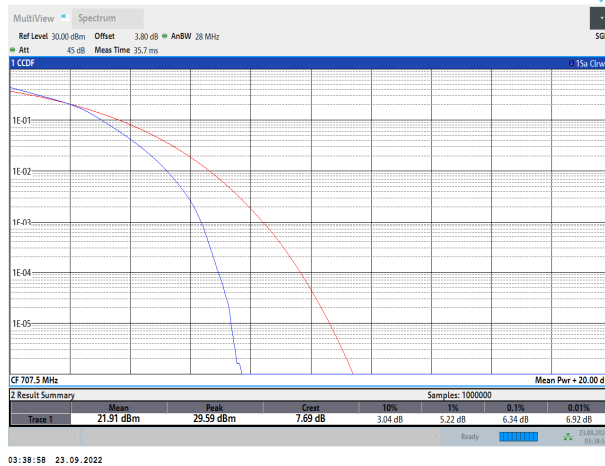


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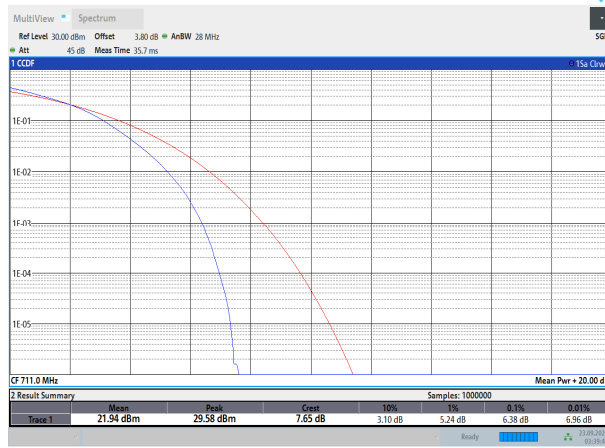
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Band12-10MHz-16QAM-23095-50RB#0



03:38:58 23.09.2022

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



03:39:48 23.09.2022

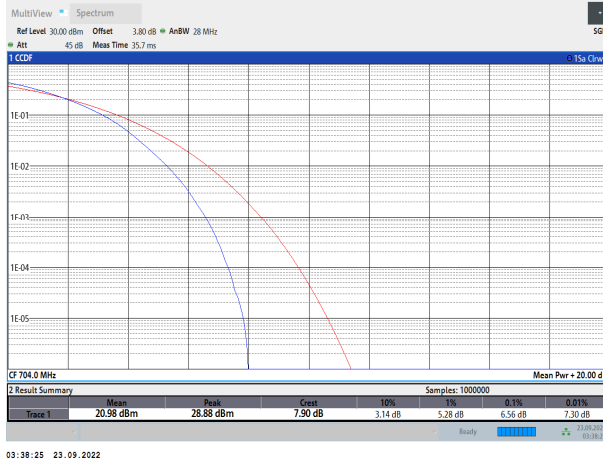


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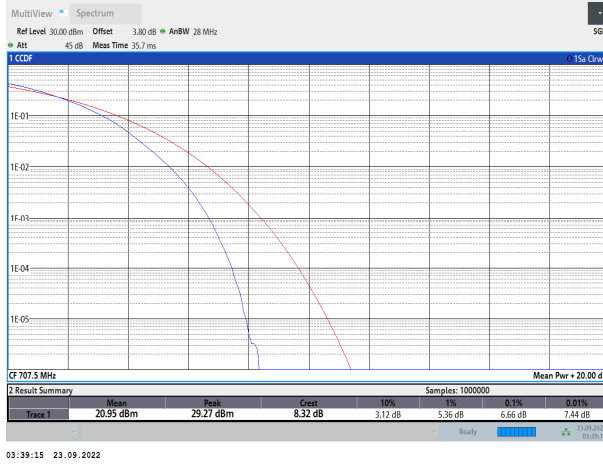
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Band12-10MHz-64QAM-23060-50RB#0



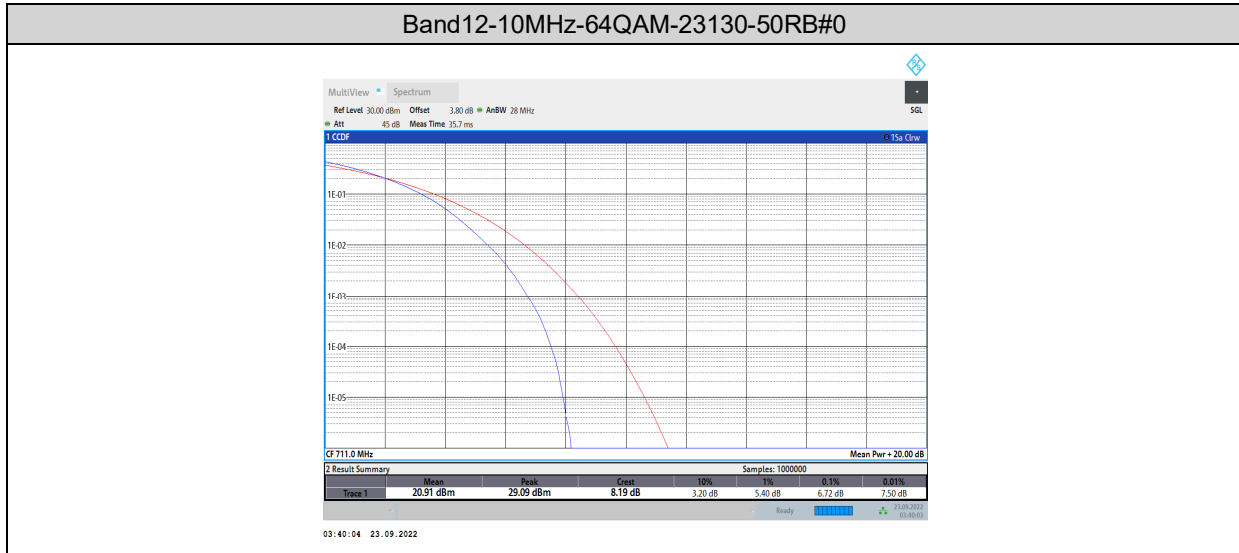
Band12-10MHz-64QAM-23095-50RB#0



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Modulation Characteristics

Test Result

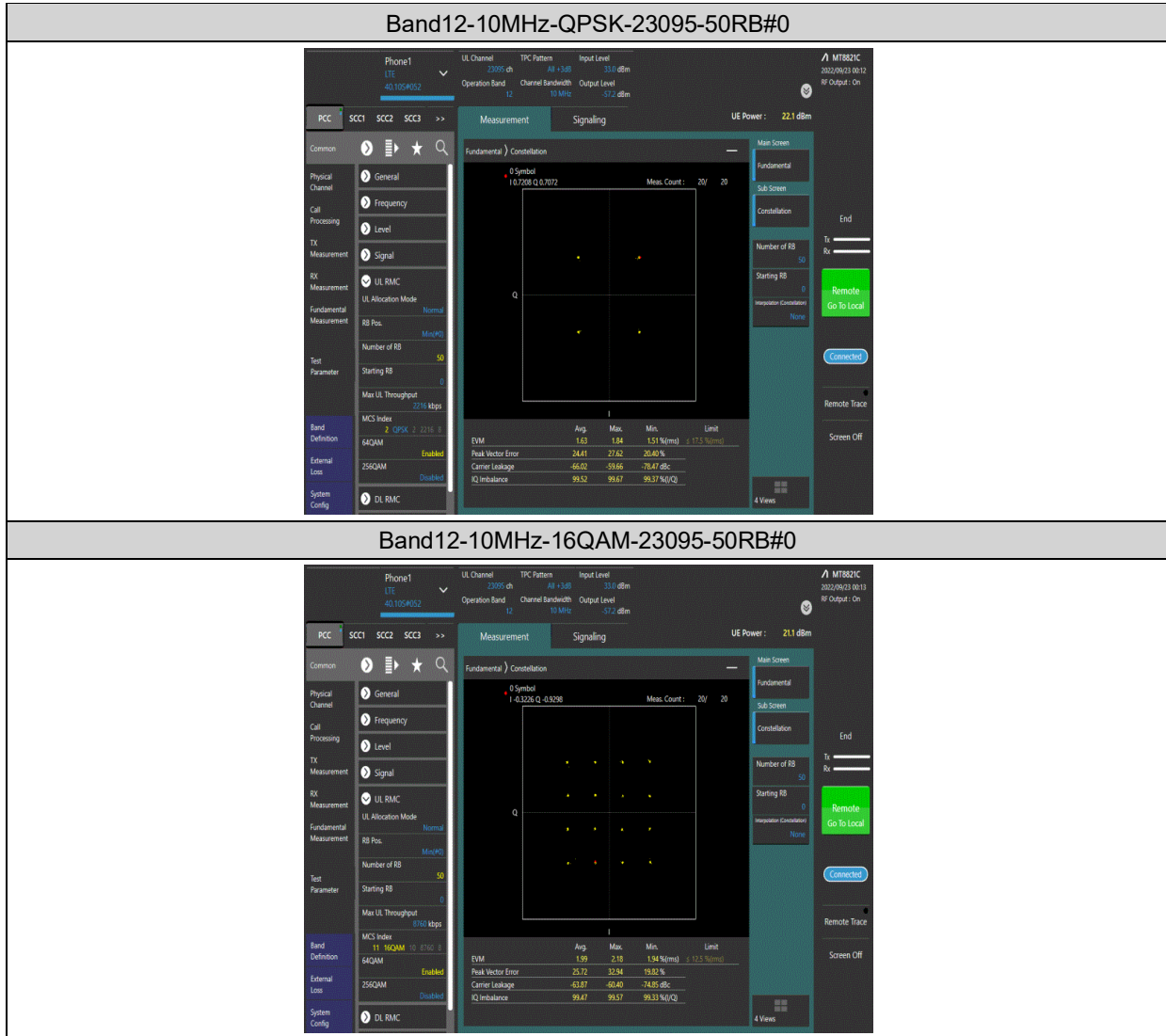
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS



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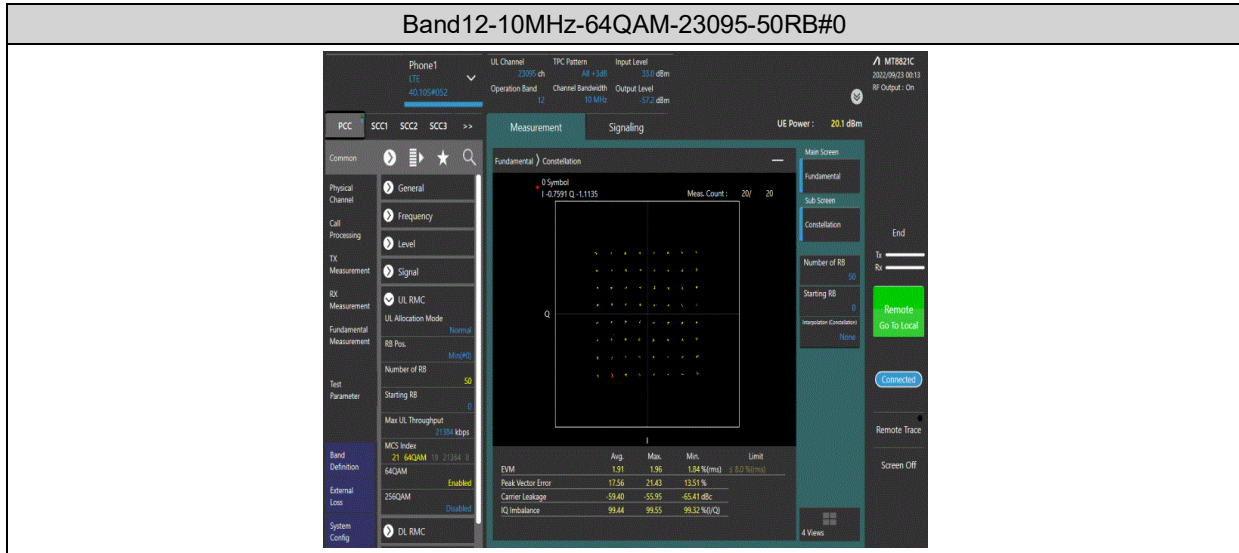
Test Graphs



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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	1.086	1.23	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.087	1.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.085	1.23	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.092	1.24	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.093	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	1.092	1.25	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.092	1.24	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.96	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.698	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.693	2.97	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.687	3.01	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.692	2.98	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.688	2.98	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.69	2.97	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.69	2.99	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.685	2.95	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.464	4.89	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.478	4.89	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.467	4.86	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.463	4.88	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.474	4.90	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.463	4.88	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.476	4.90	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.485	4.91	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.469	4.87	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.907	9.56	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.953	9.68	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.931	9.62	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.889	9.60	PASS



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Report No.: SEWA2208000034RG01

Rev.: 01

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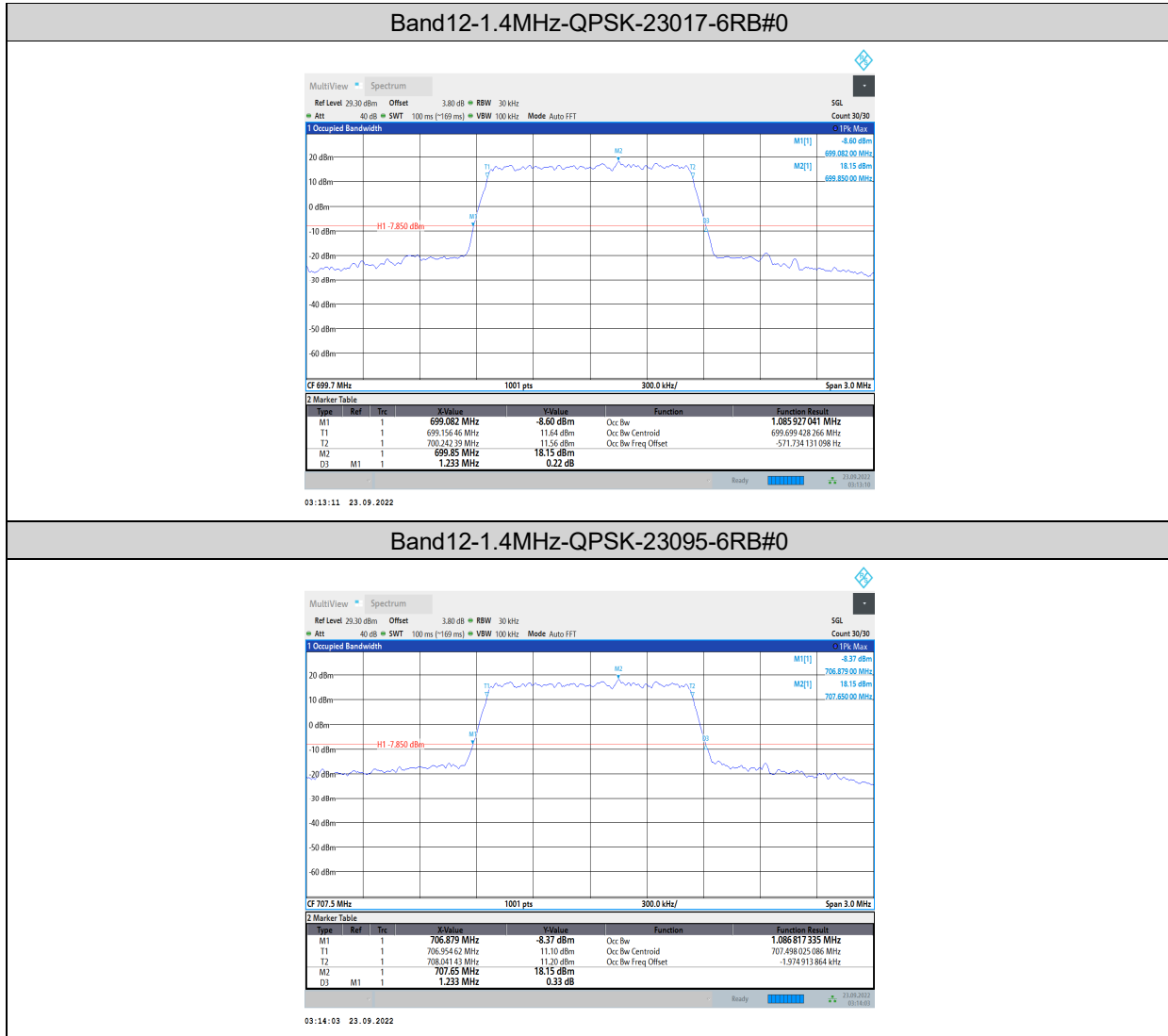
Band12	10MHz	16QAM	23095	50RB#0	8.935	9.66	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.915	9.62	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.9	9.60	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.952	9.68	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.938	9.64	PASS



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Test Graphs

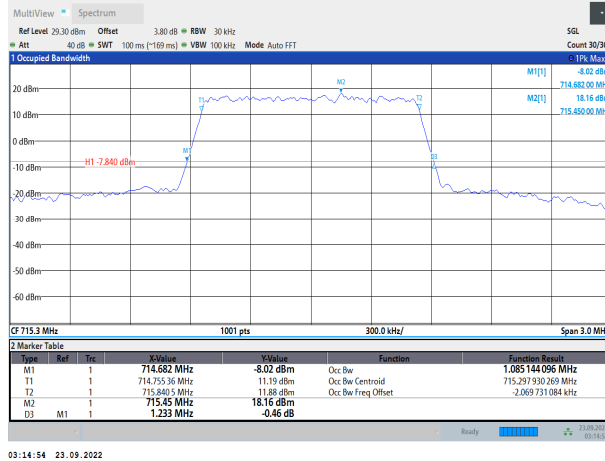


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Band12-1.4MHz-QPSK-23173-6RB#0



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

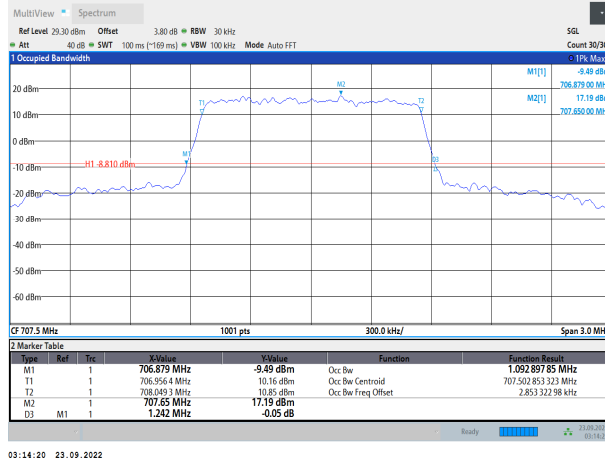


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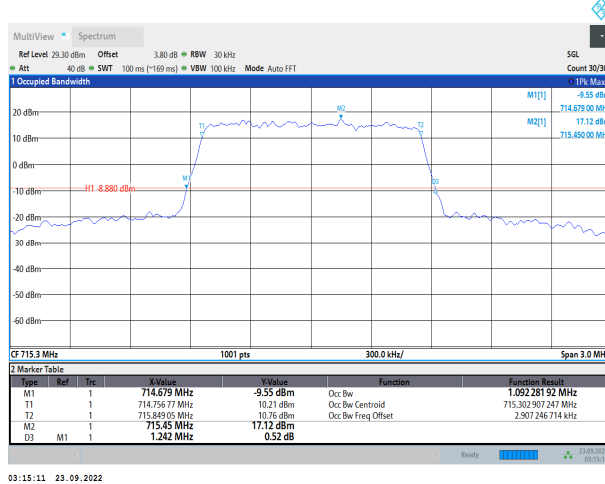
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Band12-1.4MHz-16QAM-23173-6RB#0

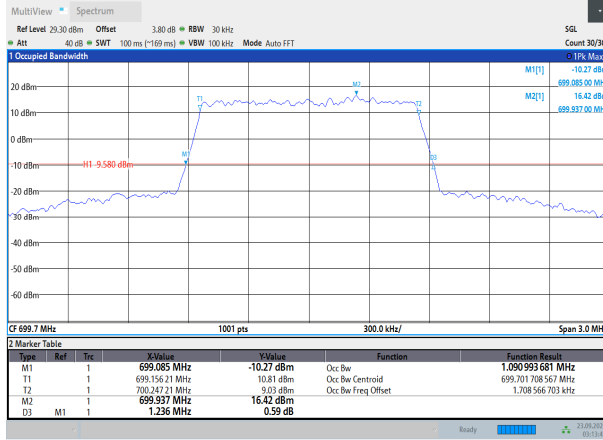


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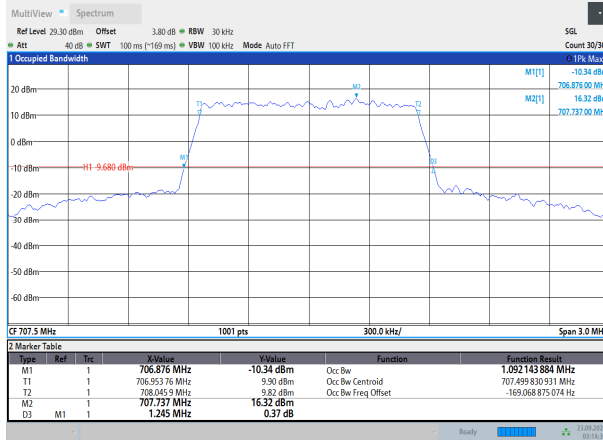
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Band12-1.4MHz-64QAM-23017-6RB#0



03:13:46 23.09.2022

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



03:14:37 23.09.2022



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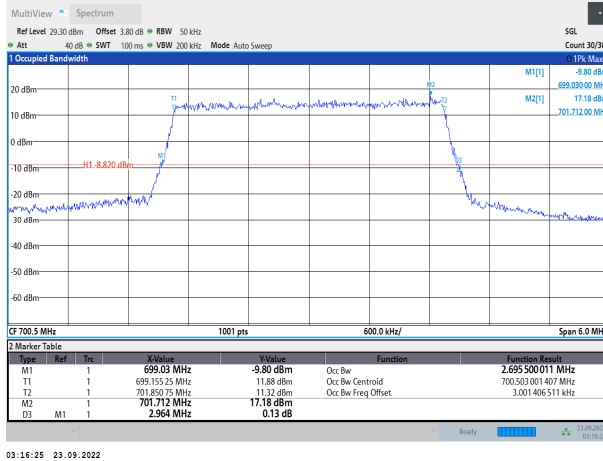
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Band12-1.4MHz-64QAM-23173-6RB#0



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

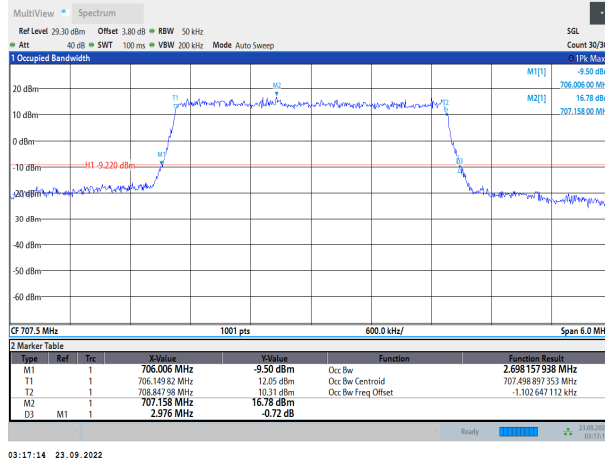


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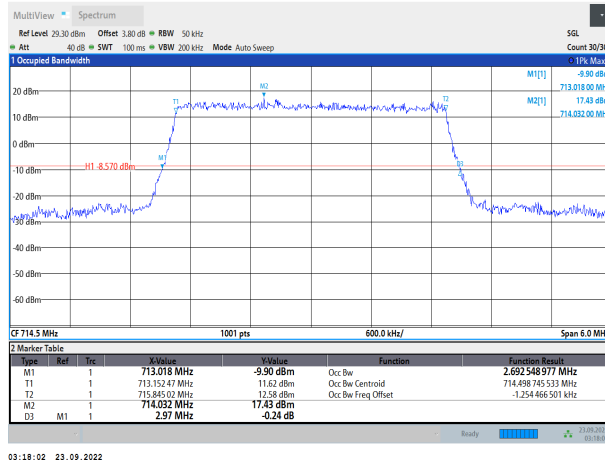
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Band12-3MHz-QPSK-23095-15RB#0



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

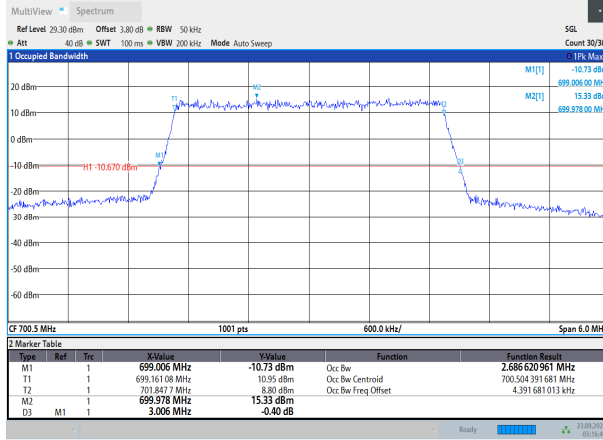


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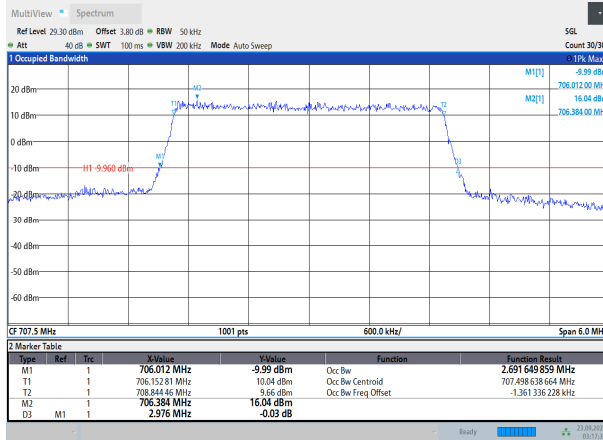
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Band12-3MHz-16QAM-23025-15RB#0



03:16:41 23. 09. 2022

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



03:17:30 23. 09. 2022

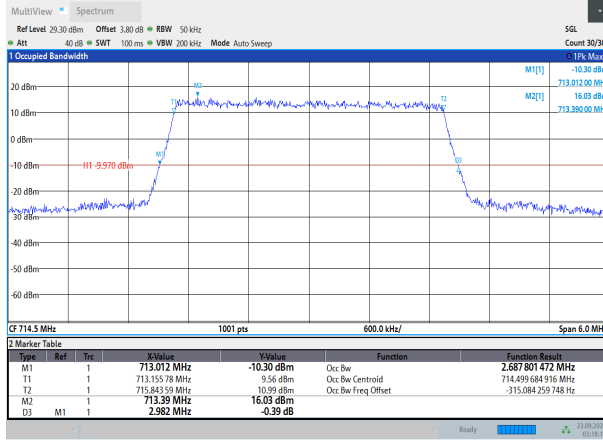


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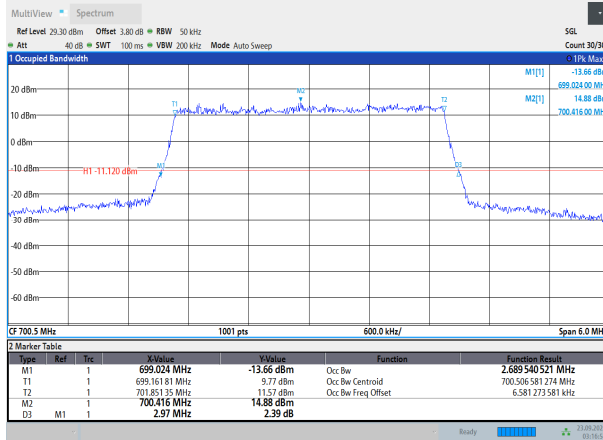
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Band12-3MHz-16QAM-23165-15RB#0



03:18:18 23. 09. 2022

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



03:16:57 23. 09. 2022

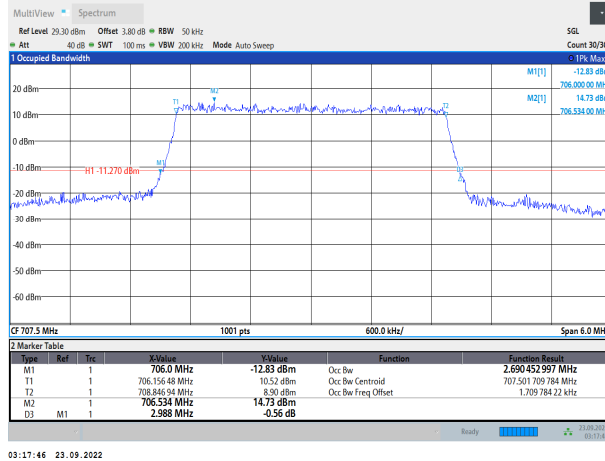


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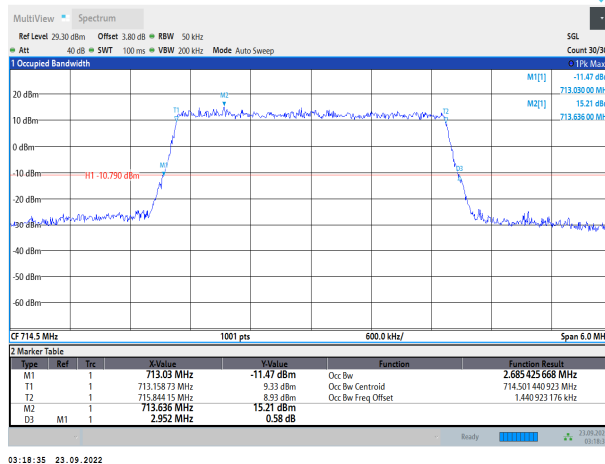
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Band12-3MHz-64QAM-23095-15RB#0



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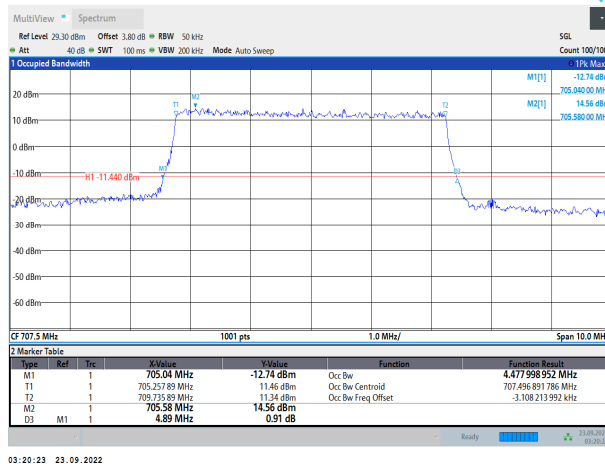
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Band12-5MHz-QPSK-23035-25RB#0



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

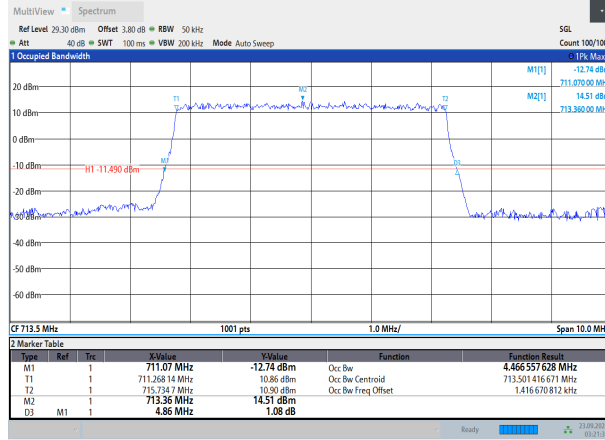


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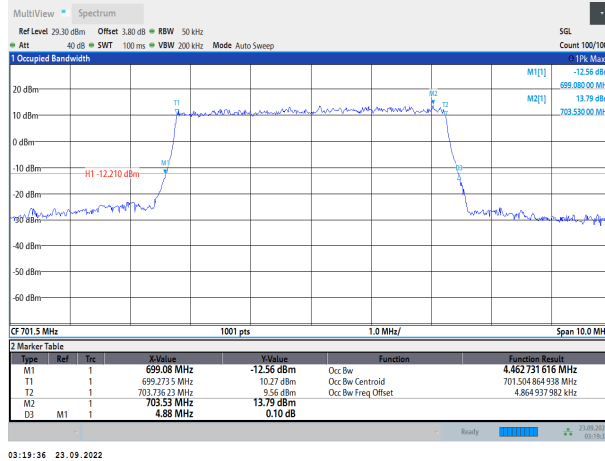
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Band12-5MHz-QPSK-23155-25RB#0



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

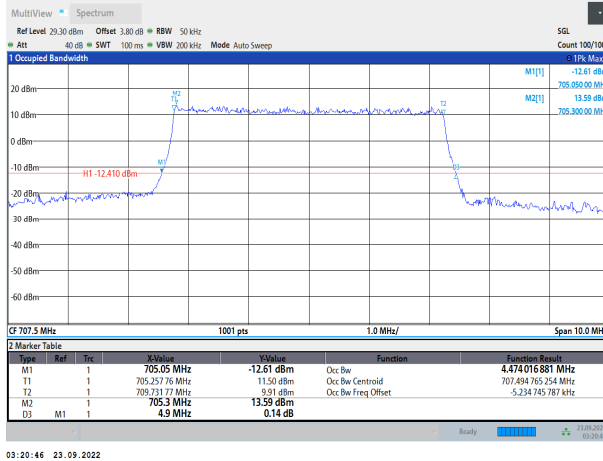


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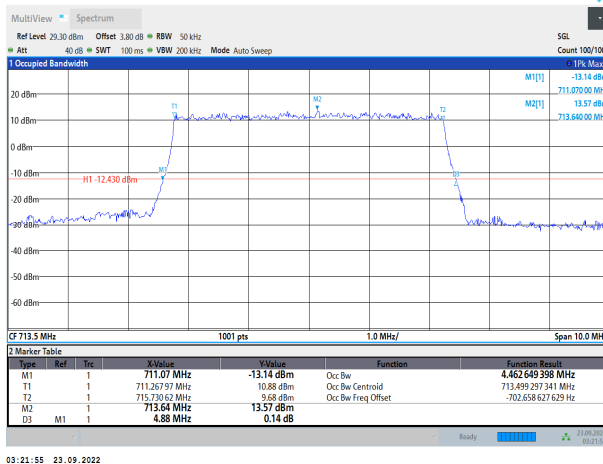
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Band12-5MHz-16QAM-23095-25RB#0



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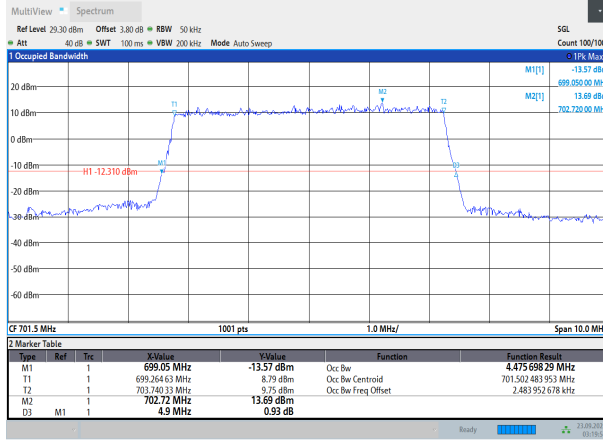


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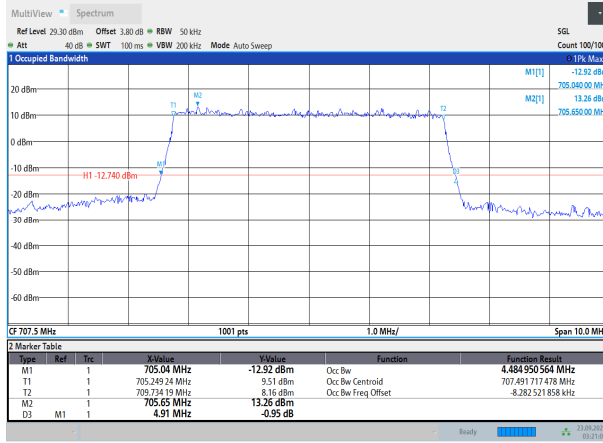
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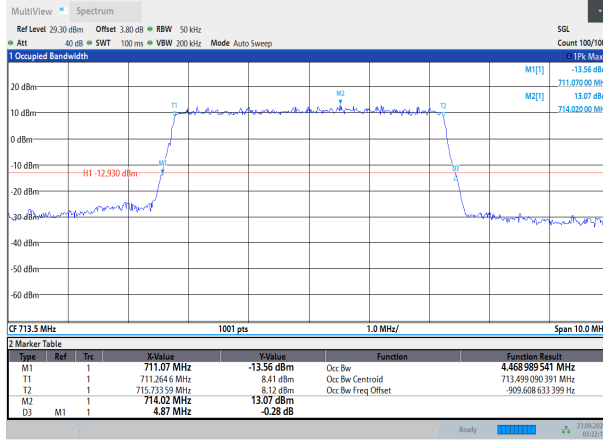


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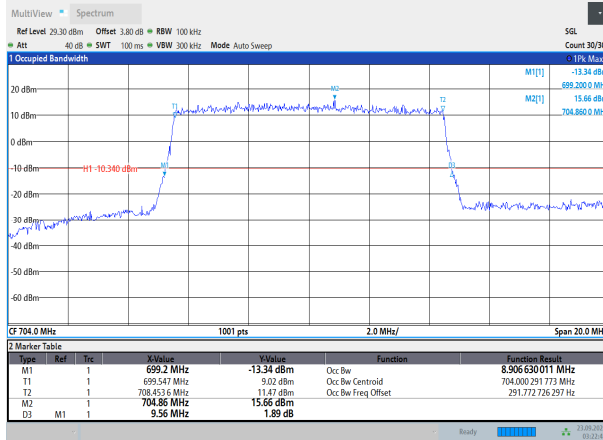
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Band12-5MHz-64QAM-23155-25RB#0



03:22:18 23. 09. 2022

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



03:22:50 23. 09. 2022

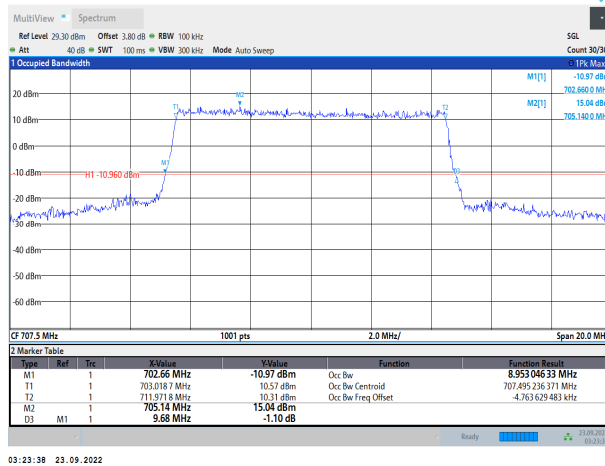


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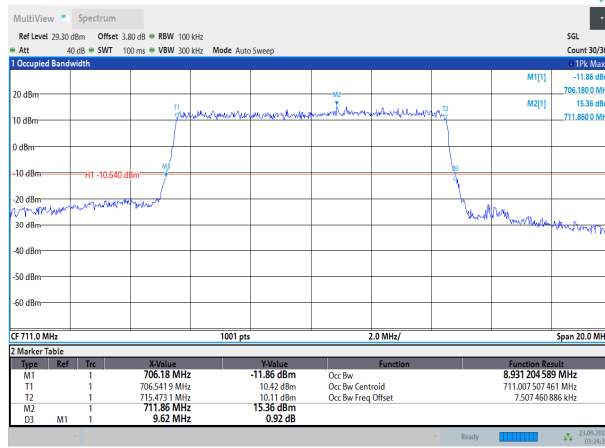
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Band12-10MHz-QPSK-23095-50RB#0



03:23:38 23.09.2022

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



03:24:27 23.09.2022

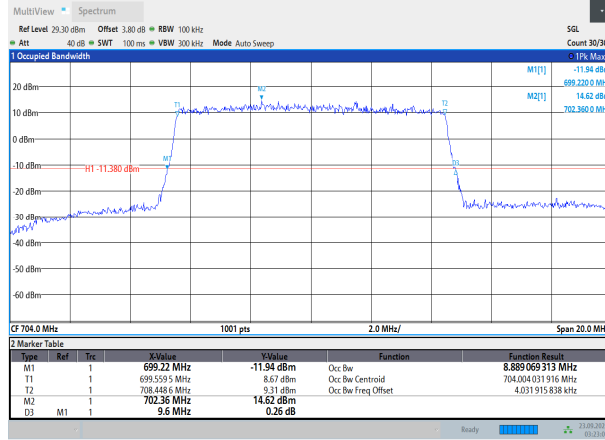


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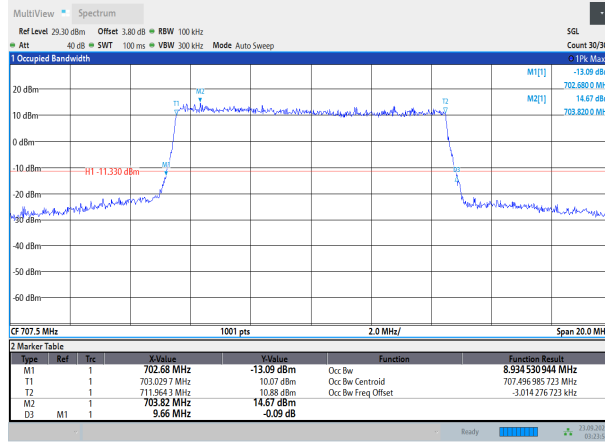
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Band12-10MHz-16QAM-23060-50RB#0



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

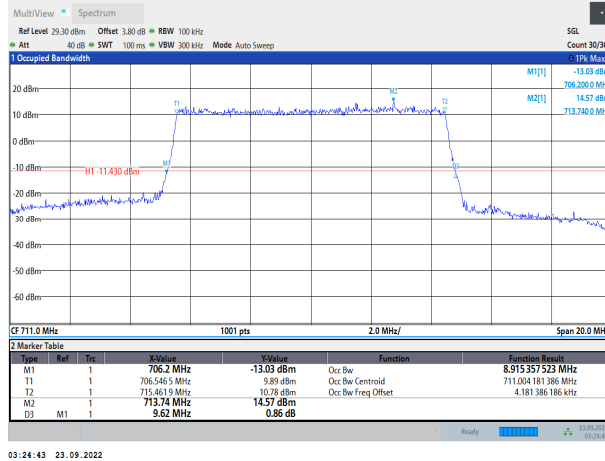


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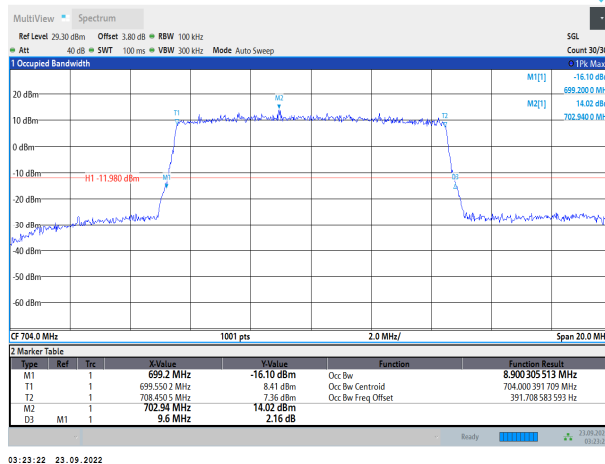
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Band12-10MHz-16QAM-23130-50RB#0



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

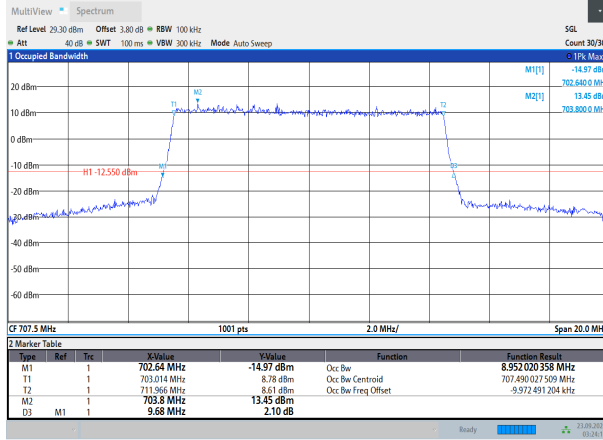


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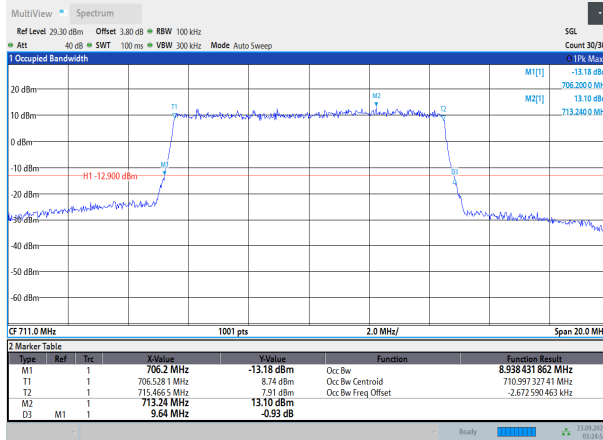
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Band12-10MHz-64QAM-23095-50RB#0



03:24:10 23.09.2022

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



03:24:59 23.09.2022



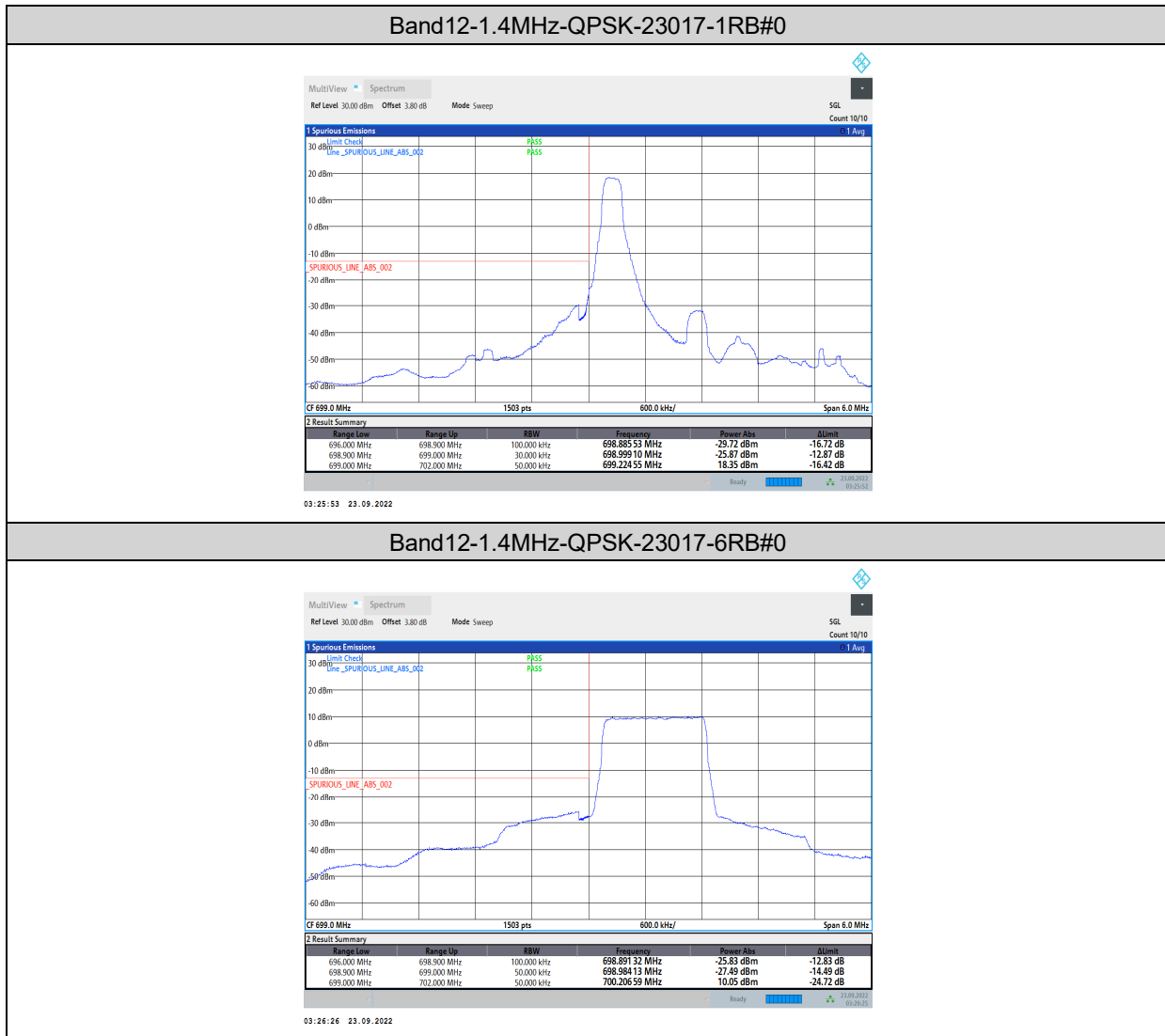
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Band Edge

Test Graphs

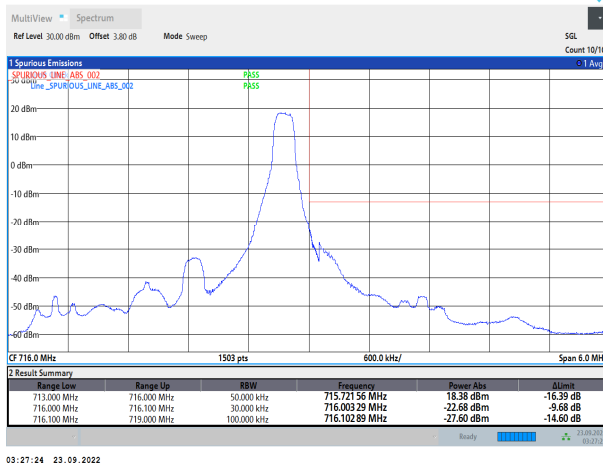


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Band12-1.4MHz-QPSK-23173-1RB#5



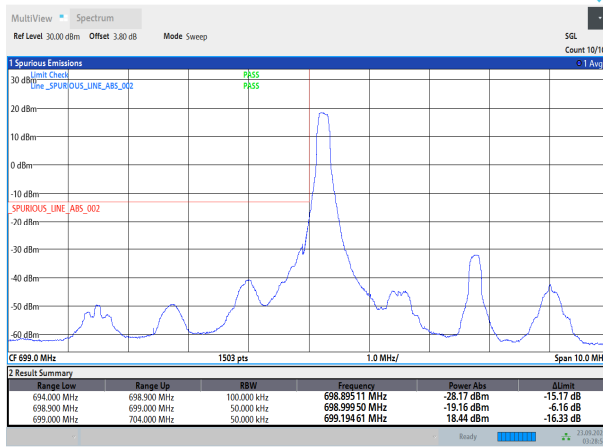
Band12-1.4MHz-QPSK-23173-6RB#0



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



03:28:51 23.09.2022

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



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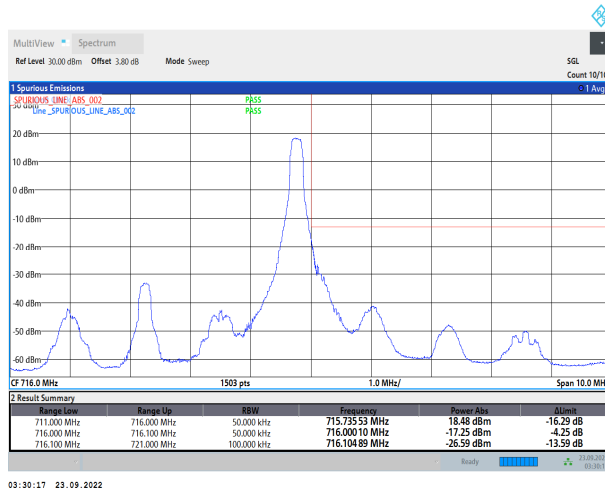


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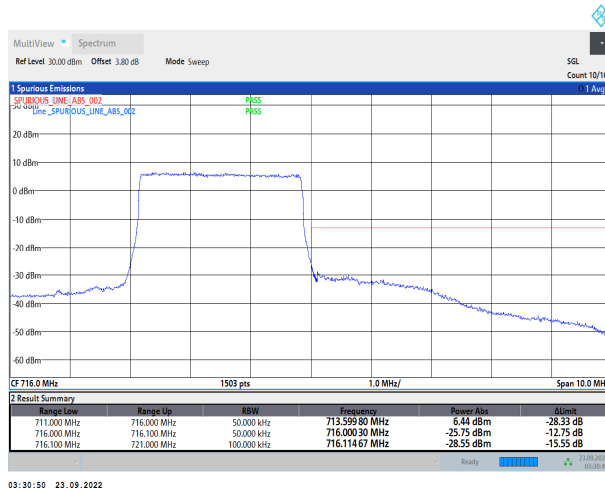
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Band12-3MHz-QPSK-23165-1RB#14



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

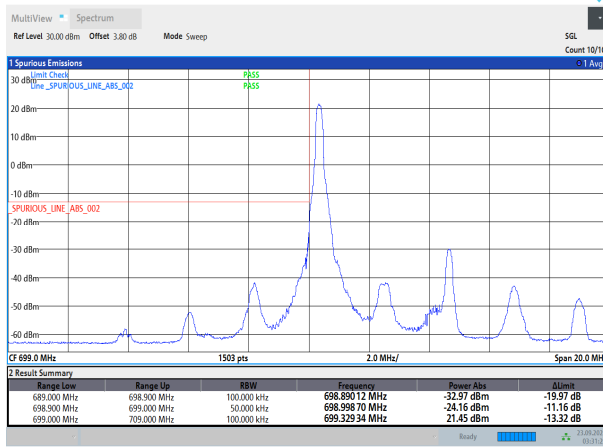


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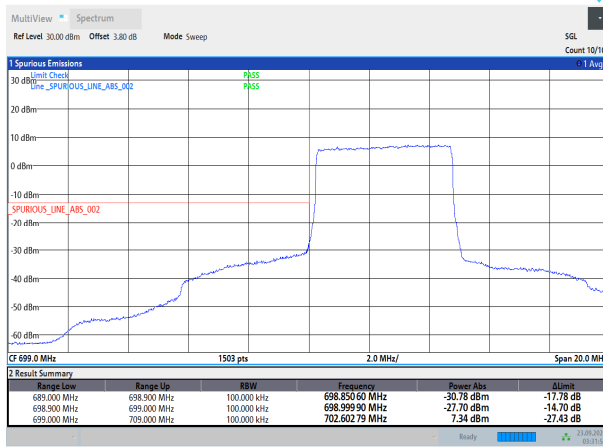
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Band12-5MHz-QPSK-23035-1RB#0



03:31:30 23.09.2022

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



03:31:54 23.09.2022

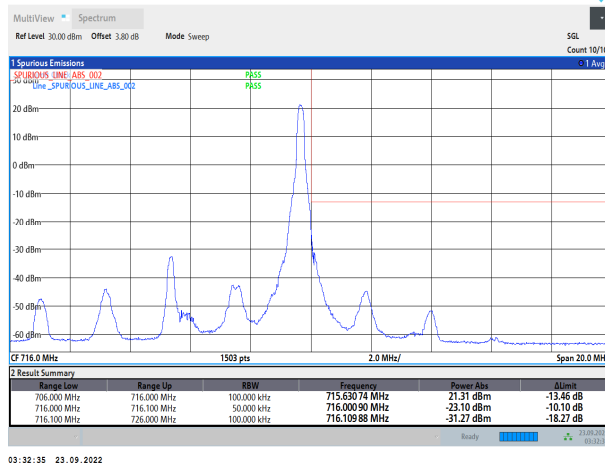


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Band12-5MHz-QPSK-23155-1RB#24



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

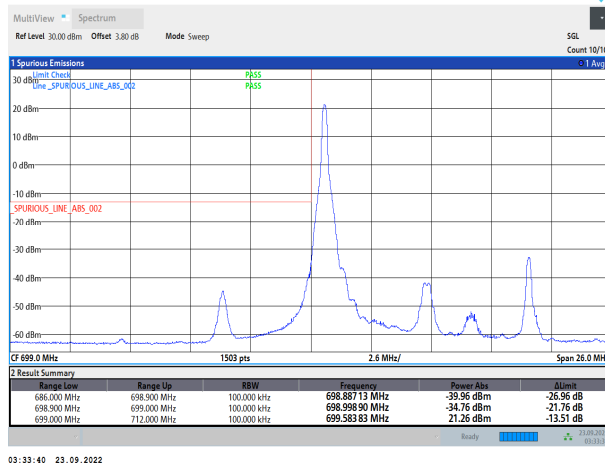


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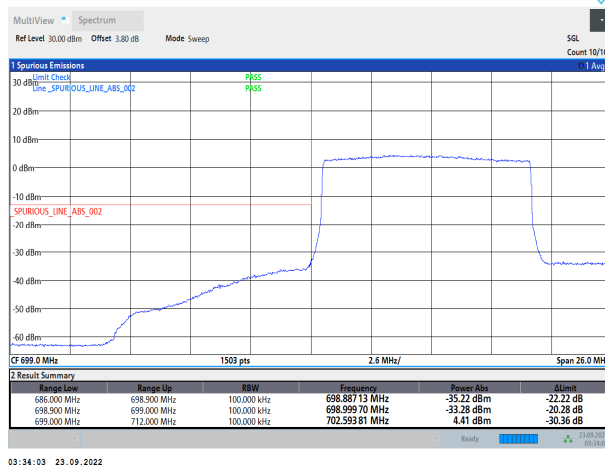
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Band12-10MHz-QPSK-23060-1RB#0



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

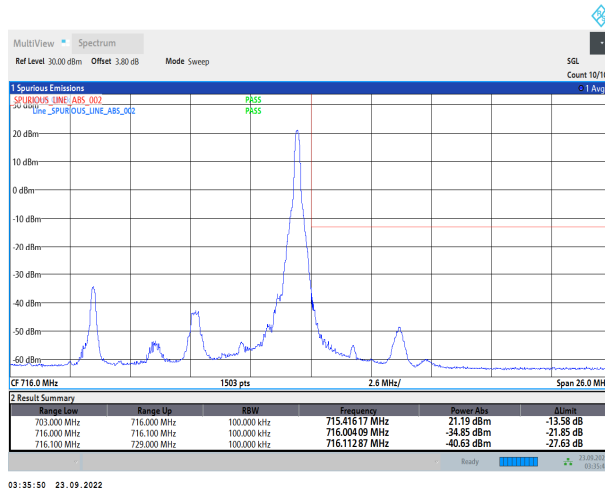


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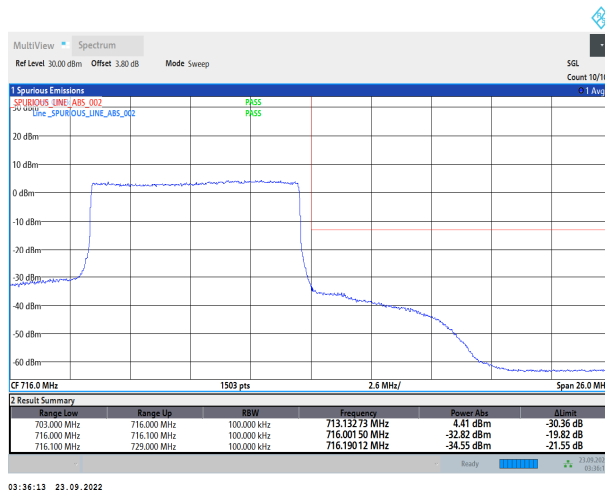
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Band12-10MHz-QPSK-23130-1RB#49



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



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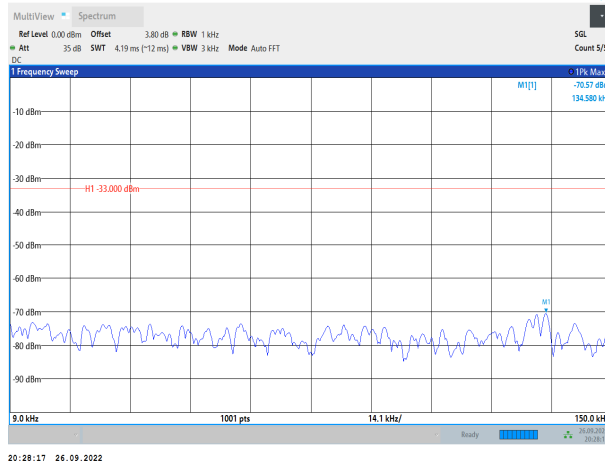
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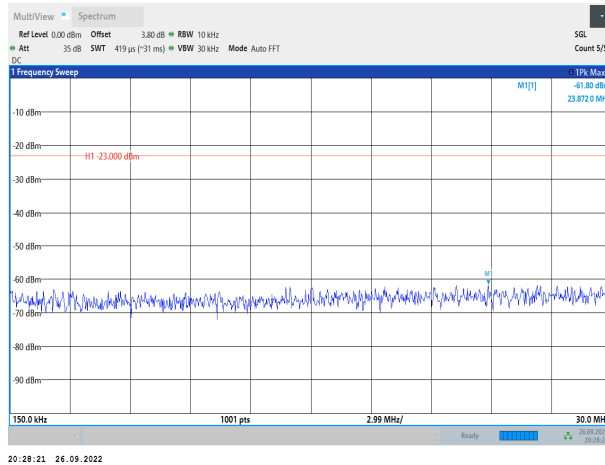
Conducted Spurious Emission

Test Graphs

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



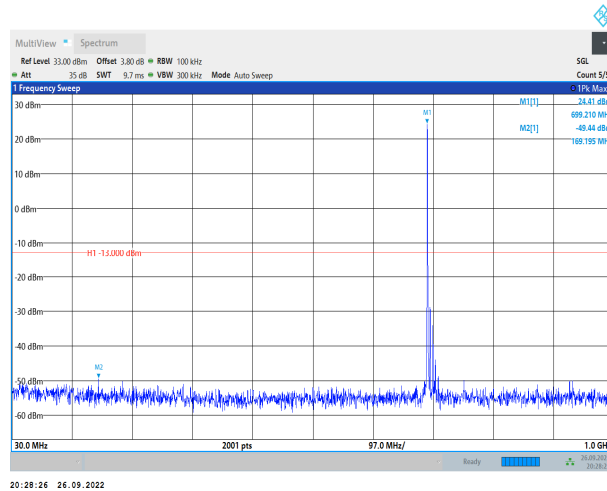
Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



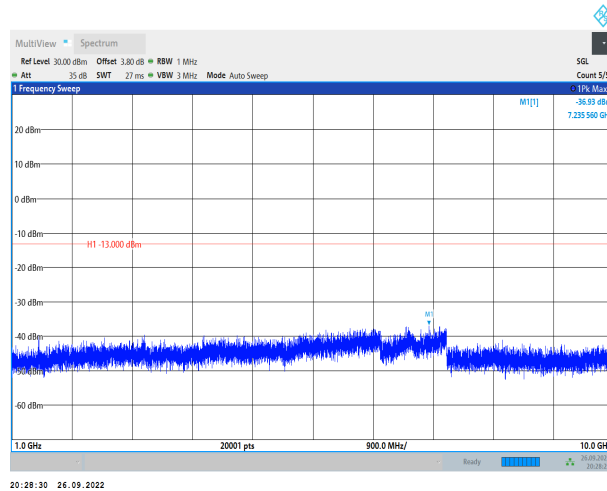
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

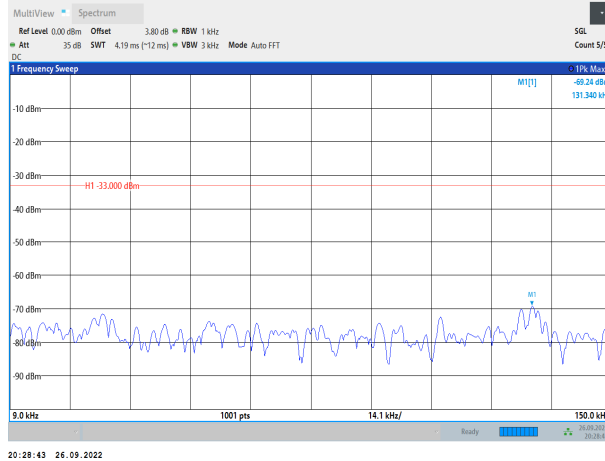


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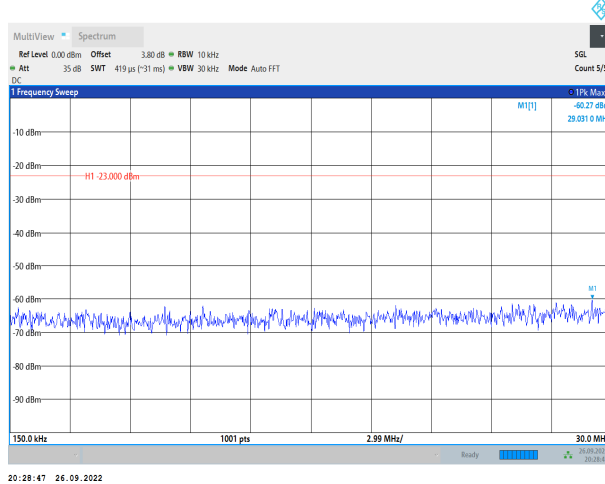
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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

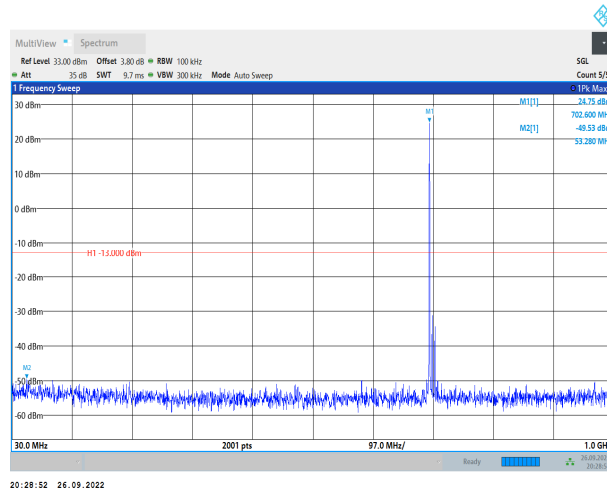


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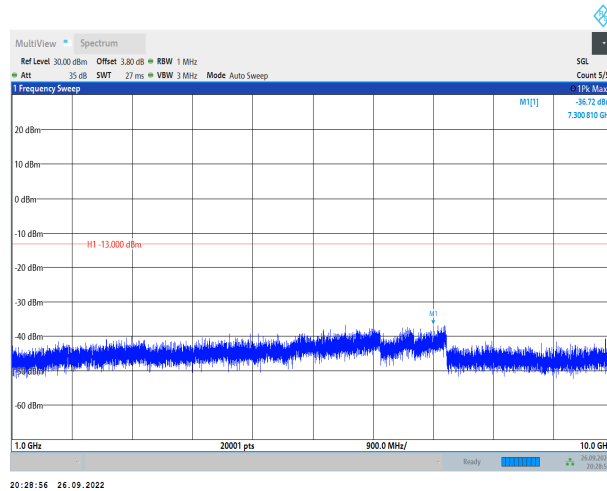
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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

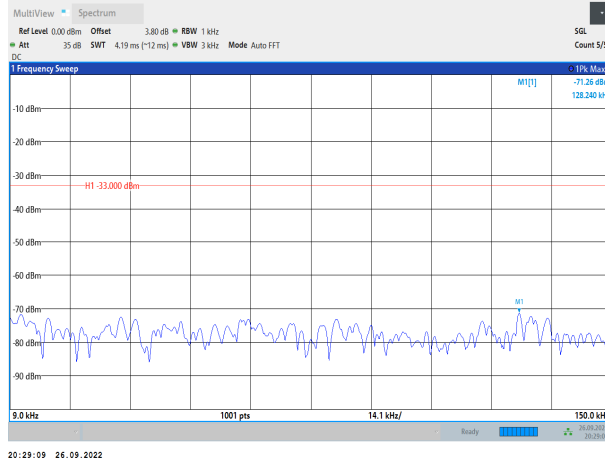


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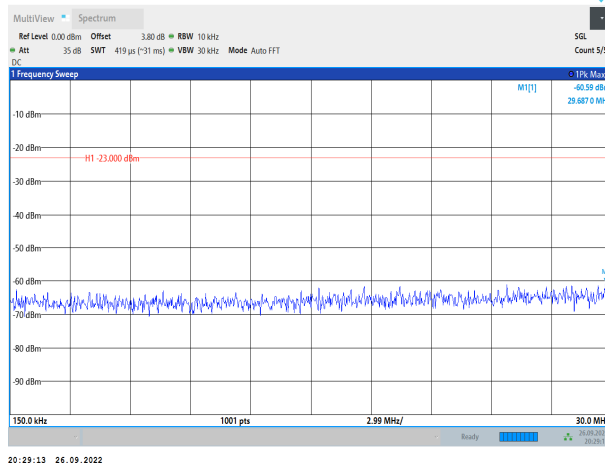
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

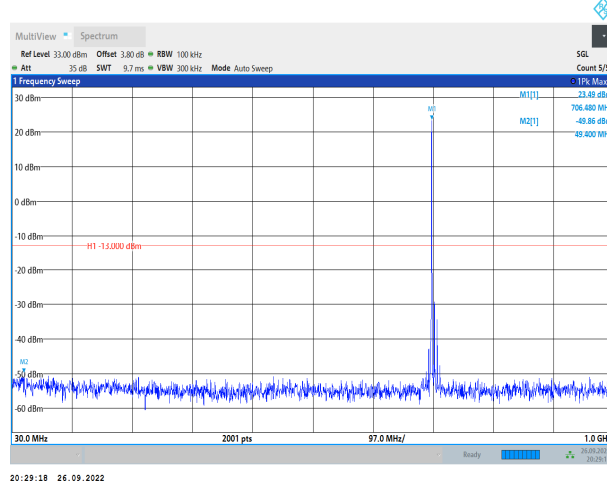


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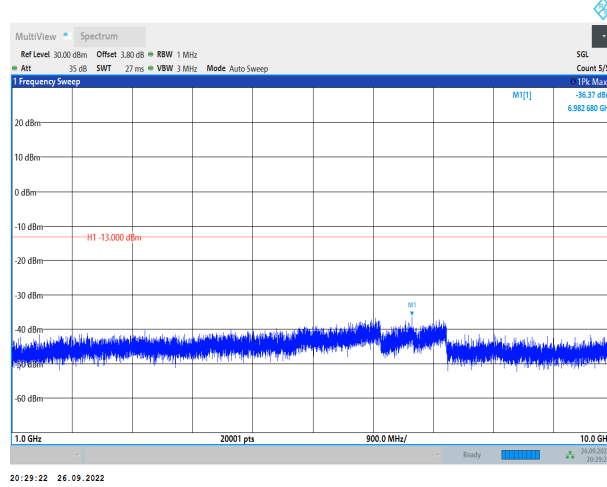
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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

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	62.06	-48.00	25.62	-55.58	-13.00	42.58	194	64	Horizontal
2	2098.7700	50.63	-47.71	26.99	-65.36	-13.00	52.36	217	6	Horizontal
3	2798.3600	51.14	-46.92	28.48	-62.56	-13.00	49.56	228	171	Horizontal
4	3497.9500	49.93	-46.54	29.52	-62.35	-13.00	49.35	263	346	Horizontal
5	4197.5400	48.09	-45.96	31.10	-62.03	-13.00	49.03	218	6	Horizontal
6	4897.1300	49.30	-45.58	32.59	-58.95	-13.00	45.95	115	239	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	60.59	-48.00	25.62	-57.05	-13.00	44.05	214	312	Vertical
2	2098.7700	50.23	-47.71	26.99	-65.76	-13.00	52.76	271	243	Vertical
3	2798.3600	50.48	-46.92	28.48	-63.22	-13.00	50.22	268	109	Vertical
4	3497.9500	50.08	-46.54	29.52	-62.20	-13.00	49.20	256	135	Vertical
5	4197.5400	47.87	-45.96	31.10	-62.25	-13.00	49.25	237	4	Vertical
6	4897.1300	49.95	-45.58	32.59	-58.30	-13.00	45.30	195	360	Vertical



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Test Band = LTE Band 12_ 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	55.28	-48.02	25.61	-62.39	-13.00	49.39	169	0	Horizontal
2	2109.2700	50.43	-47.71	27.02	-65.51	-13.00	52.51	214	267	Horizontal
3	2812.3600	52.34	-46.88	28.53	-61.26	-13.00	48.26	271	334	Horizontal
4	3515.4500	49.59	-46.51	29.53	-62.64	-13.00	49.64	158	226	Horizontal
5	4218.5400	47.32	-45.93	31.14	-62.73	-13.00	49.73	263	79	Horizontal
6	4921.6300	51.28	-45.63	32.66	-56.95	-13.00	43.95	228	267	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	55.42	-48.02	25.61	-62.25	-13.00	49.25	229	354	Vertical
2	2109.2700	50.72	-47.71	27.02	-65.22	-13.00	52.22	257	360	Vertical
3	2812.3600	52.32	-46.88	28.53	-61.28	-13.00	48.28	186	360	Vertical
4	3515.4500	50.73	-46.51	29.53	-61.50	-13.00	48.50	192	359	Vertical
5	4218.5400	48.29	-45.93	31.14	-61.76	-13.00	48.76	172	201	Vertical
6	4921.6300	48.43	-45.63	32.66	-59.80	-13.00	46.80	164	174	Vertical



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Test Band = LTE Band 12_ 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	59.47	-48.04	25.60	-58.23	-13.00	45.23	176	62	Horizontal
2	2119.7700	56.70	-47.70	27.06	-59.20	-13.00	46.20	218	212	Horizontal
3	2826.3600	57.19	-46.83	28.60	-56.30	-13.00	43.30	227	225	Horizontal
4	3532.9500	49.51	-46.47	29.55	-62.67	-13.00	49.67	219	36	Horizontal
5	4239.5400	48.33	-45.89	31.18	-61.64	-13.00	48.64	263	117	Horizontal
6	4946.1300	48.76	-45.69	32.73	-59.46	-13.00	46.46	251	280	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	58.12	-48.04	25.60	-59.58	-13.00	46.58	176	296	Vertical
2	2119.7700	52.24	-47.70	27.06	-63.66	-13.00	50.66	182	325	Vertical
3	2826.3600	52.01	-46.83	28.60	-61.48	-13.00	48.48	193	81	Vertical
4	3532.9500	49.06	-46.47	29.55	-63.12	-13.00	50.12	227	135	Vertical
5	4239.5400	48.22	-45.89	31.18	-61.75	-13.00	48.75	256	14	Vertical
6	4946.1300	48.48	-45.69	32.73	-59.74	-13.00	46.74	172	109	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-6.80	-0.009611	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-6.00	-0.008481	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	2.00	0.002827	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.60	0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-4.20	-0.005936	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.40	-0.004806	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-5.10	-0.007208	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	2.30	0.003251	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-6.50	-0.009187	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-5.40	-0.007633	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-4.50	-0.006360	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.30	-0.001837	PASS

---End of Attachment---



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