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Appendix B.7

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.93	17.98	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.05	18.10	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.90	17.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.03	17.08	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.79	17.84	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.89	17.94	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.78	17.83	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.92	16.97	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.85	17.90	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.96	18.01	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.85	17.90	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.97	17.02	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.18	17.23	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.26	17.31	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.19	17.24	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.10	16.15	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.16	17.21	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.21	17.26	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.02	17.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.00	16.05	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.10	17.15	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.31	17.36	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.07	17.12	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.07	16.12	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.23	16.28	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.27	16.32	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#5	21.11	16.16	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.01	15.06	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.02	16.07	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.12	16.17	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.96	16.01	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.92	14.97	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.01	16.06	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.16	16.21	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.01	16.06	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.93	14.98	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.07	18.12	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.98	18.03	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.94	17.99	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.03	17.08	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.93	17.98	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.91	17.96	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.90	17.95	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.97	17.02	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.94	17.99	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.00	18.05	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.95	18.00	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.01	17.06	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.35	17.40	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.27	17.32	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.25	17.30	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.04	16.09	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.16	17.21	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.22	17.27	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.13	17.18	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.00	16.05	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.29	17.34	34.77	PASS



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Band12	3MHz	16QAM	23165	1RB#8	22.34	17.39	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.30	17.35	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.03	16.08	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.36	16.41	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.22	16.27	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.22	16.27	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.02	15.07	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.07	16.12	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.18	16.23	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.14	16.19	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.98	15.03	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.08	16.13	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.19	16.24	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.17	16.22	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.00	15.05	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.86	17.91	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.09	18.14	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.79	17.84	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.87	16.92	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.78	17.83	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.01	18.06	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.76	17.81	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.87	16.92	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.70	17.75	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.06	18.11	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.81	17.86	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.94	16.99	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.17	17.22	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.27	17.32	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.09	17.14	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.90	15.95	34.77	PASS



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Band12	5MHz	16QAM	23095	1RB#0	22.09	17.14	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.36	17.41	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.99	17.04	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.87	15.92	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.09	17.14	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.30	17.35	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.05	17.10	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.94	15.99	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.01	16.06	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.31	16.36	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.99	16.04	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.87	14.92	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.04	16.09	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.22	16.27	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	20.88	15.93	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.87	14.92	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.97	16.02	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.19	16.24	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.02	16.07	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.94	14.99	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.92	17.97	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.09	18.14	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.79	17.84	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.08	17.13	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.89	17.94	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.99	18.04	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.80	17.85	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.95	17.00	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.80	17.85	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.97	18.02	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.85	17.90	34.77	PASS



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Band12	10MHz	QPSK	23130	50RB#0	21.83	16.88	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.26	17.31	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.29	17.34	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.18	17.23	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.09	16.14	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.17	17.22	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.28	17.33	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.21	17.26	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.97	16.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.21	17.26	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.30	17.35	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.14	17.19	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.84	15.89	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.21	16.26	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.26	16.31	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.00	16.05	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.10	15.15	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.11	16.16	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.21	16.26	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.04	16.09	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.96	15.01	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.03	16.08	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.21	16.26	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.03	16.08	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.85	14.90	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	5.90	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.74	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.66	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.50	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.44	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.42	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.68	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.54	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.48	13	PASS



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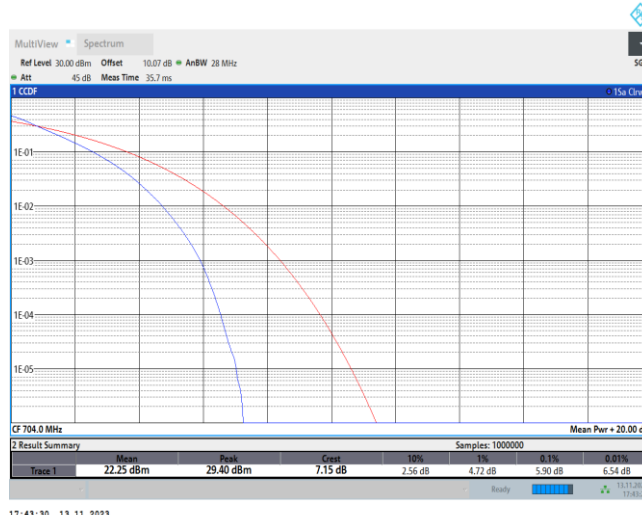
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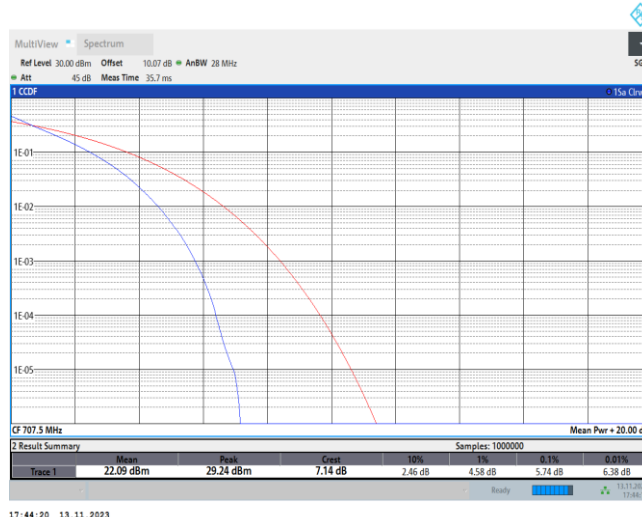
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Test Graphs

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



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



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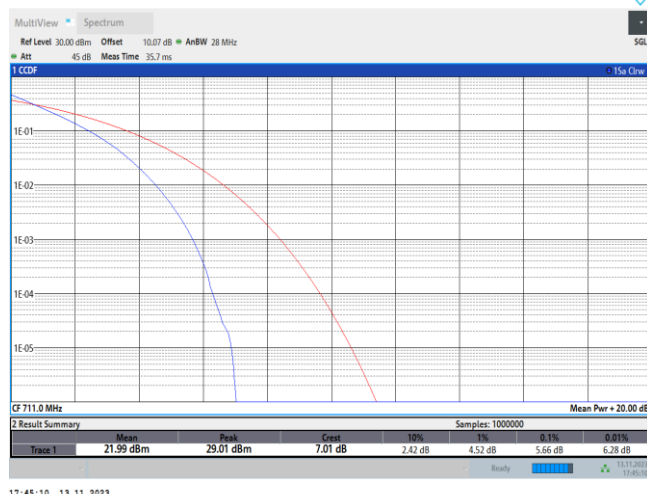
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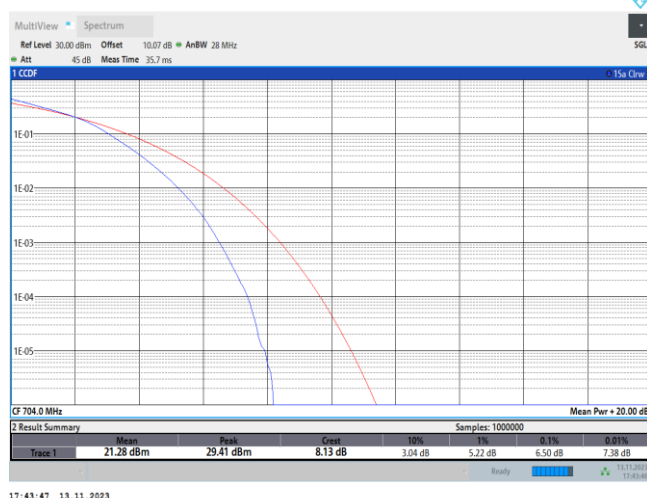
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Band12-10MHz-QPSK-23130-50RB#0



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



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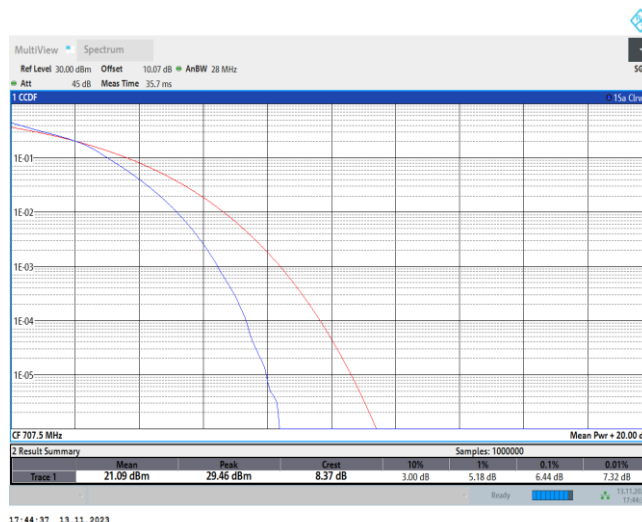
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Band12-10MHz-16QAM-23095-50RB#0



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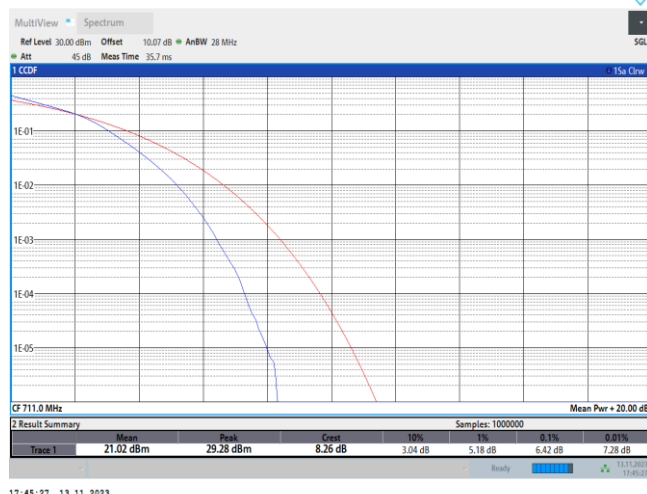
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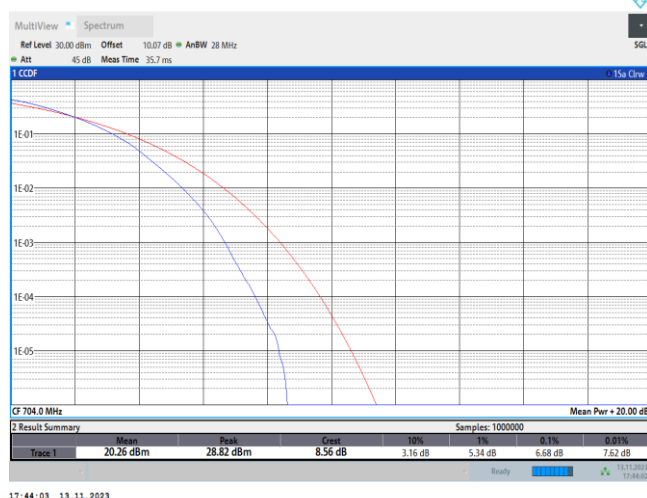
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Band12-10MHz-16QAM-23130-50RB#0



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



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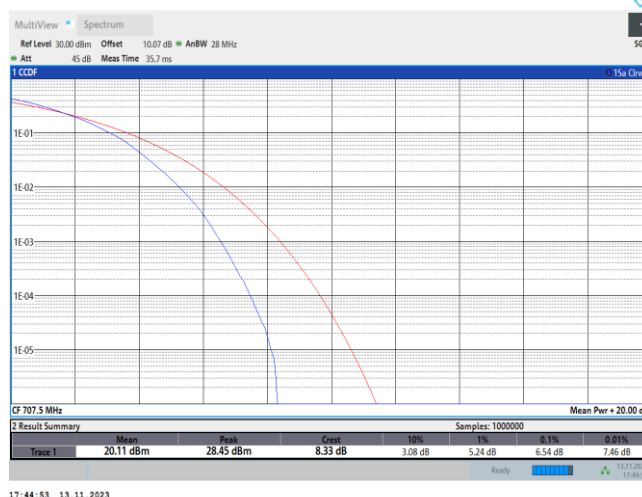
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Band12-10MHz-64QAM-23095-50RB#0



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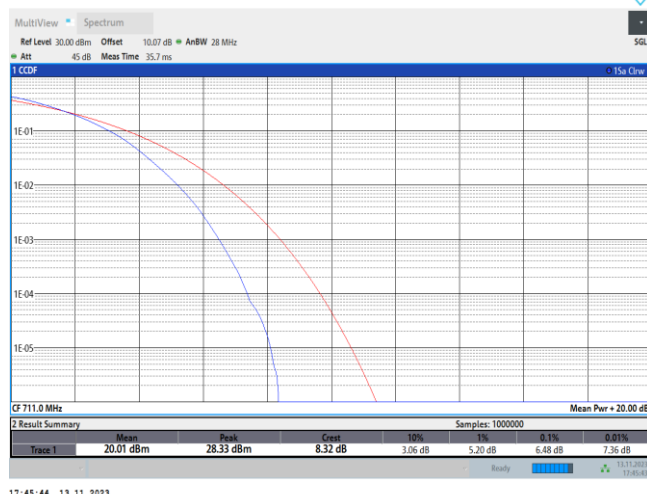
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Band12-10MHz-64QAM-23130-50RB#0



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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	1.086	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.086	1.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.097	1.31	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.097	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.682	2.92	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.686	2.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.693	2.88	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.676	2.92	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.675	2.91	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.68	2.92	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.682	2.90	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.684	2.90	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.684	2.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.474	5.02	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.475	5.03	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	5.03	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.47	5.05	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.477	5.07	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.48	5.07	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.48	5.07	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.483	5.03	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.493	5.08	PASS



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Band12	10MHz	QPSK	23060	50RB#0	8.962	9.93	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.942	9.87	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.977	9.87	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.942	9.80	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.952	9.93	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.944	9.87	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.956	9.90	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.946	9.90	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.943	9.83	PASS



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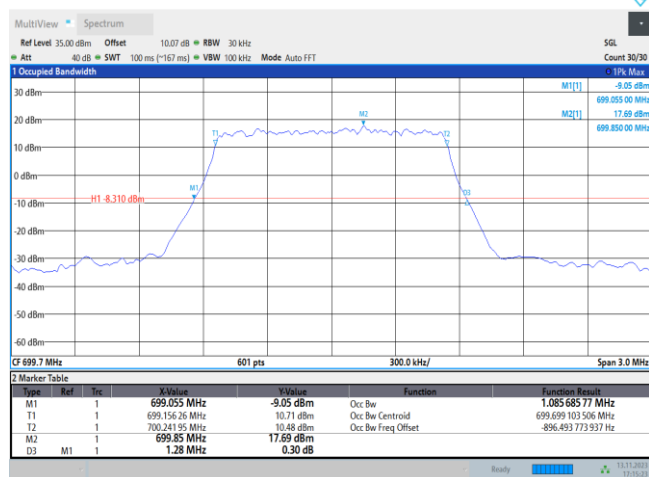
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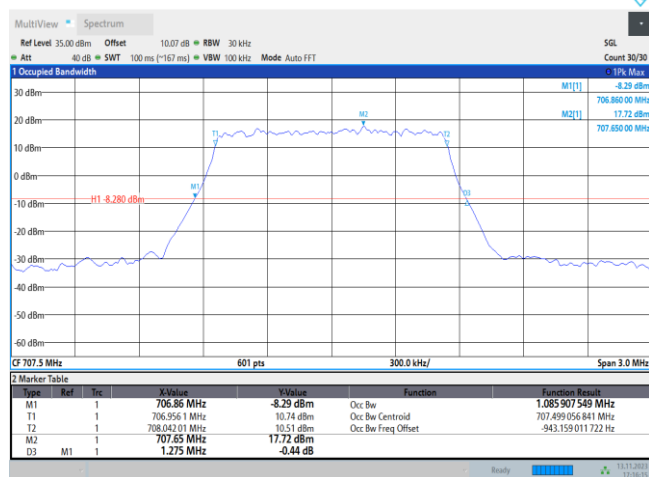
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Test Graphs

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



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



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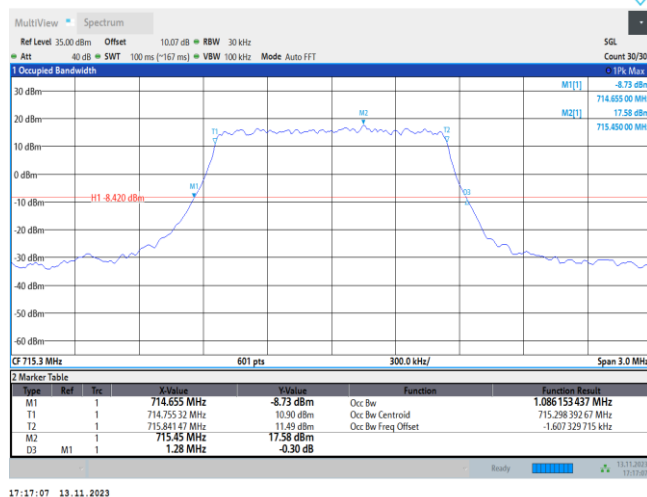
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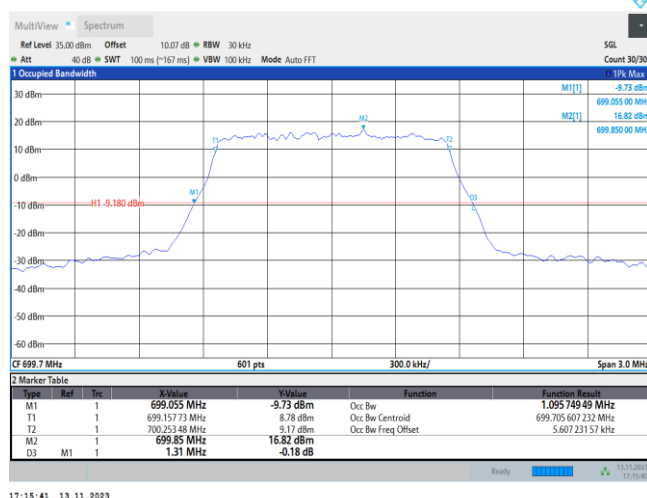
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Band12-1.4MHz-QPSK-23173-6RB#0



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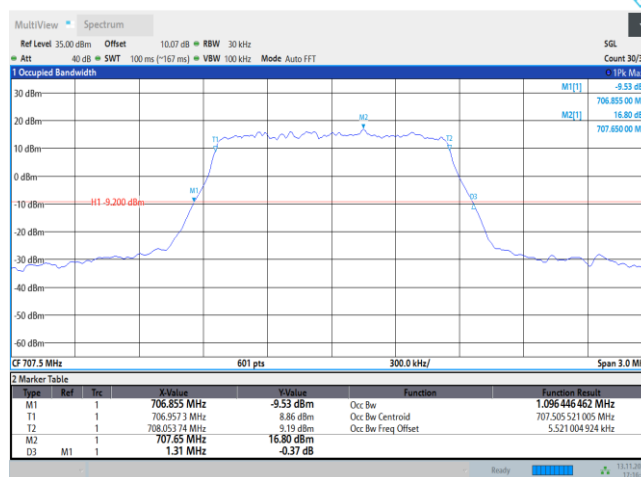
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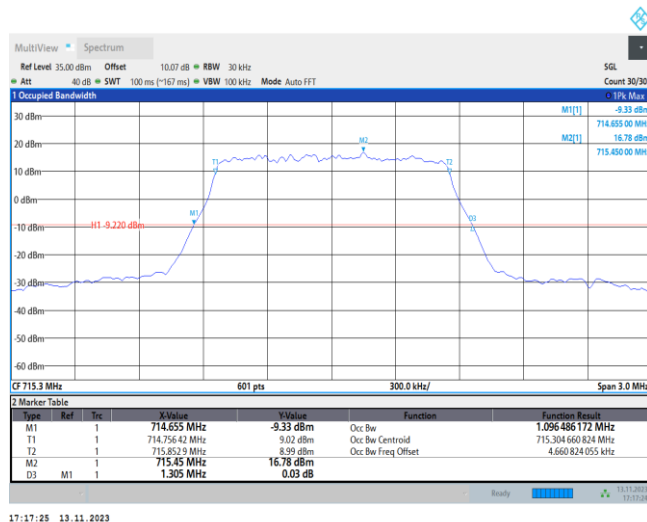
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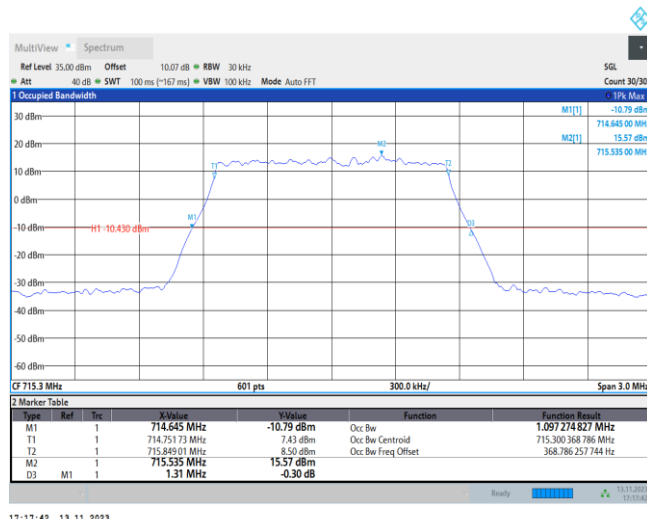
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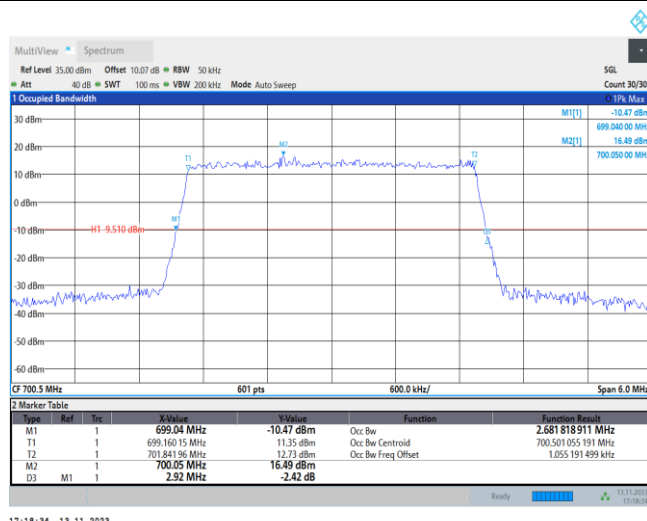
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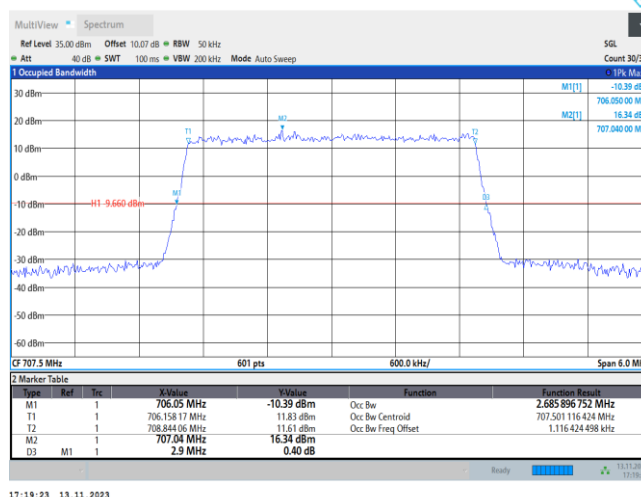
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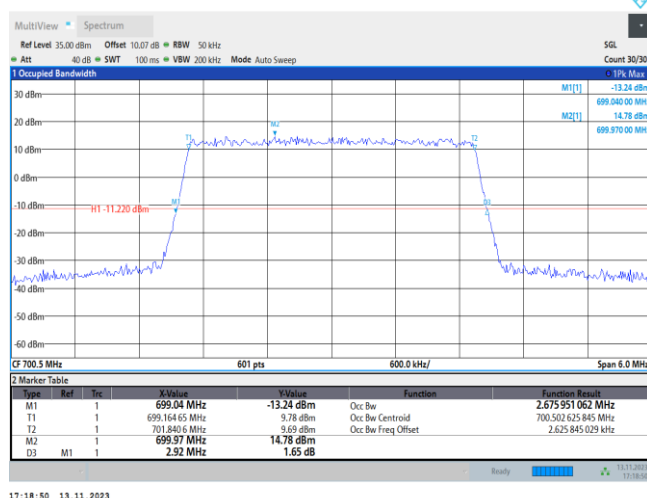
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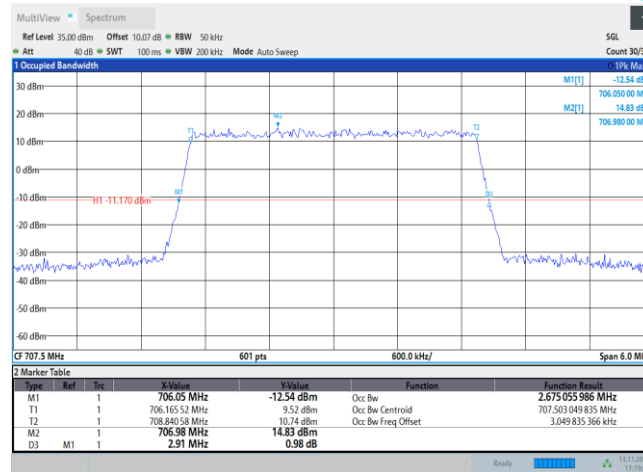
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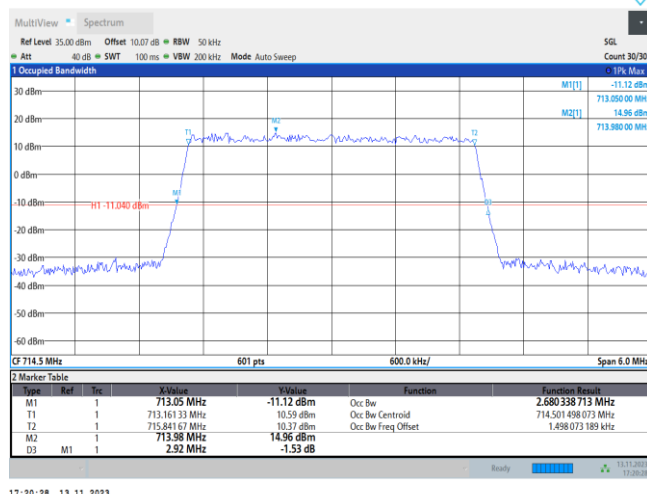
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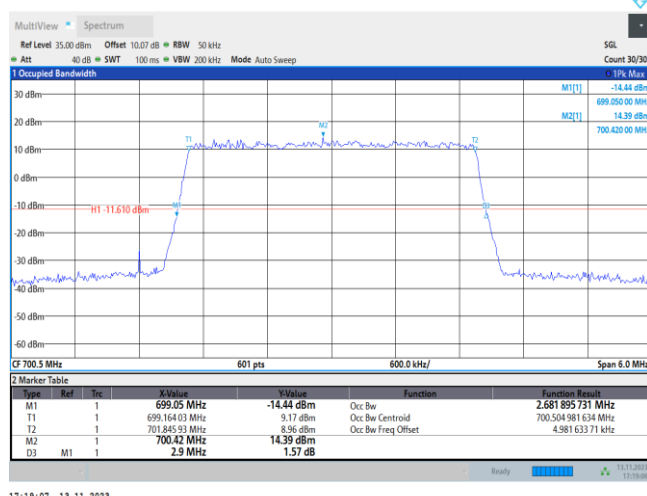
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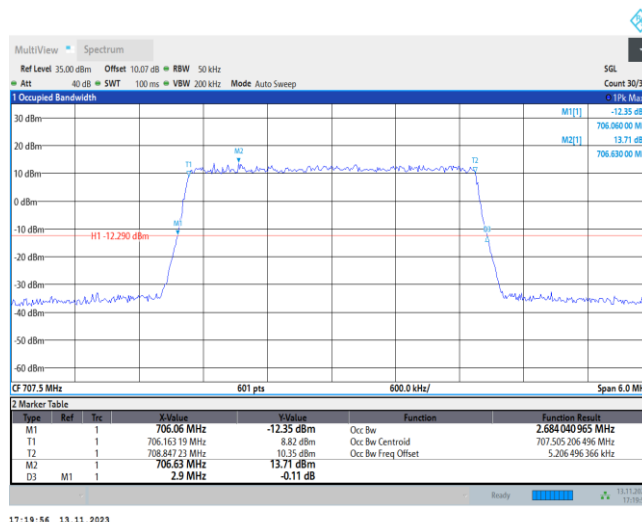
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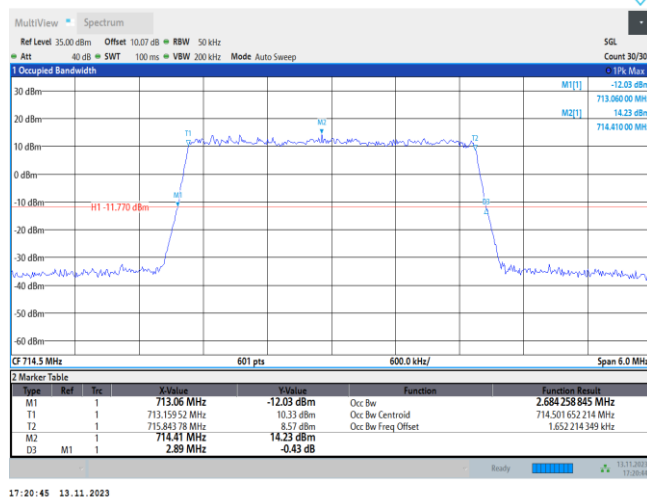
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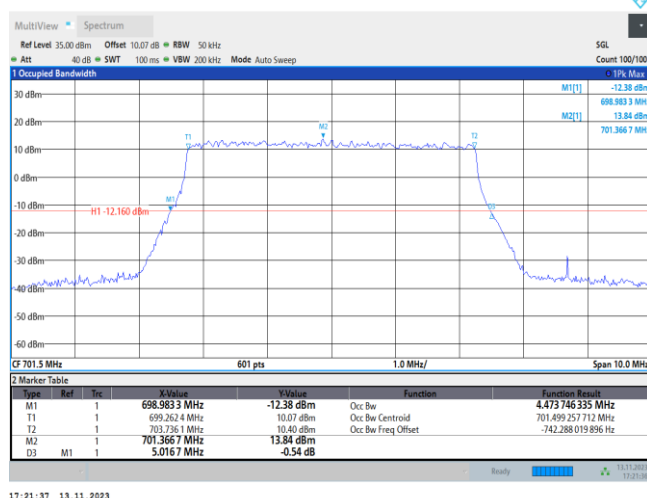
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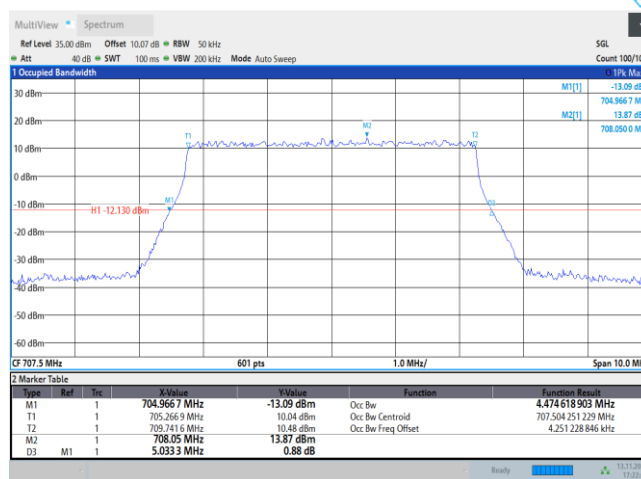
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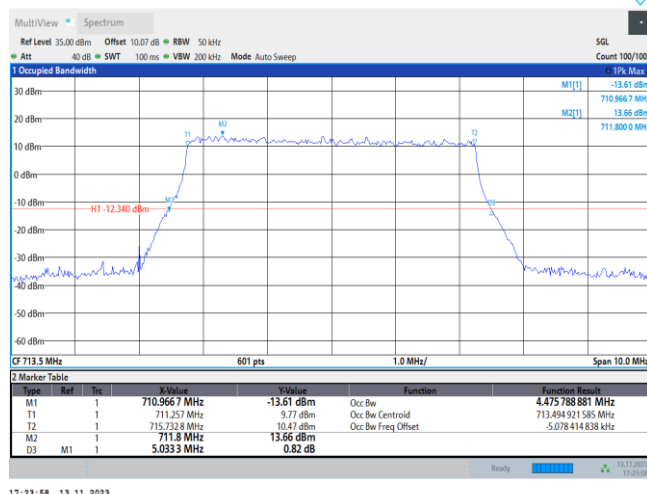
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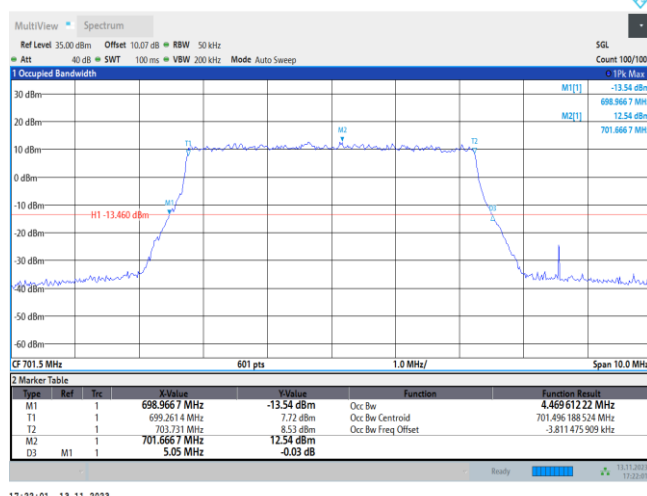
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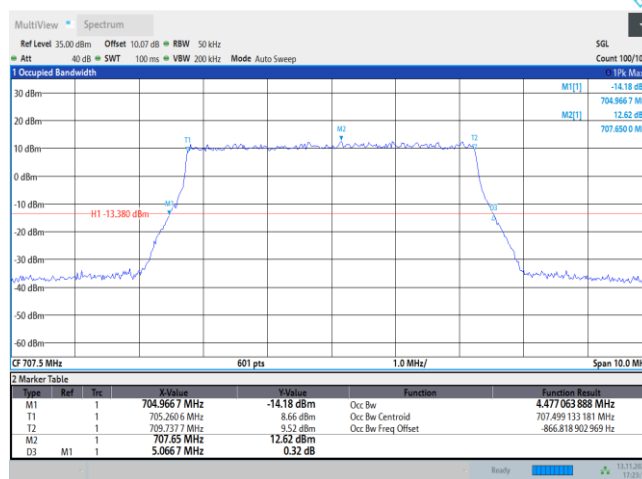
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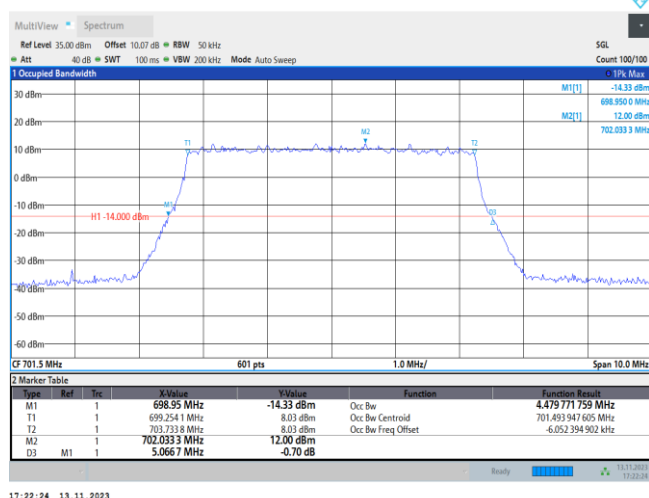
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Band12-5MHz-16QAM-23155-25RB#0



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



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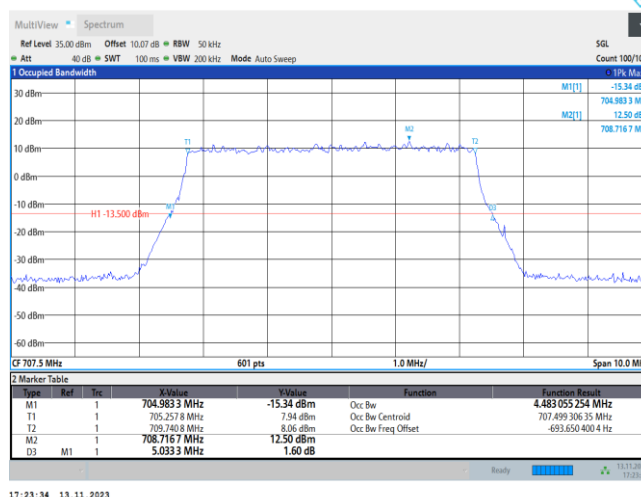
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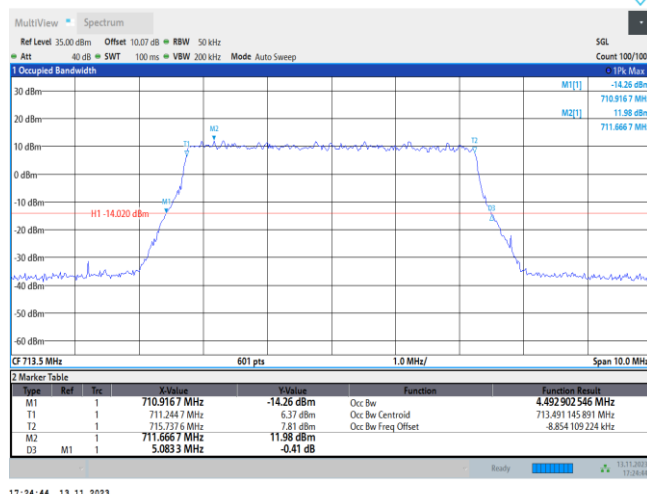
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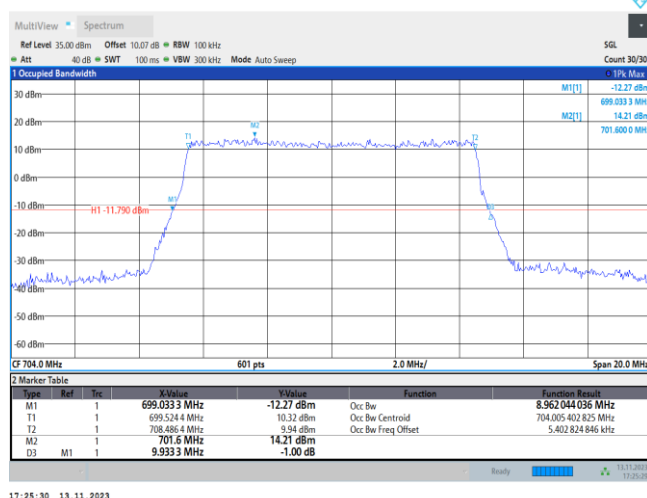
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Band12-10MHz-QPSK-23060-50RB#0



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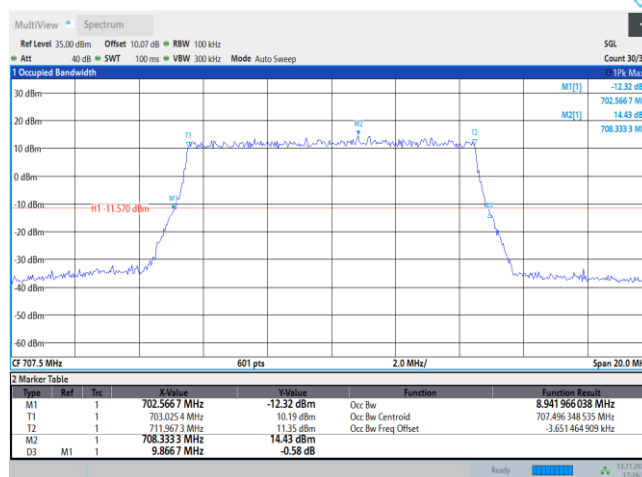
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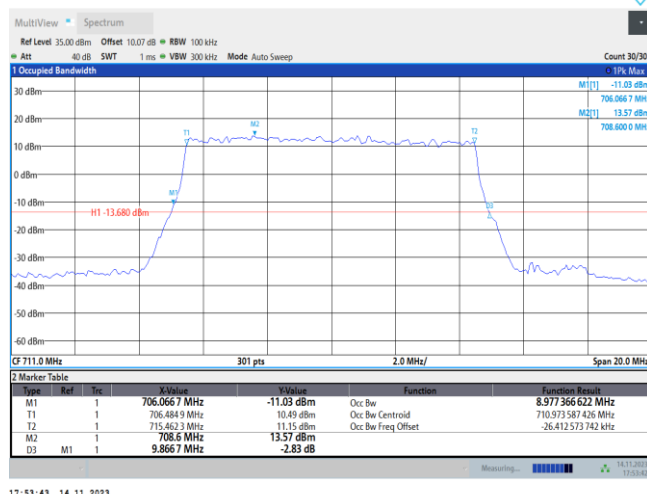
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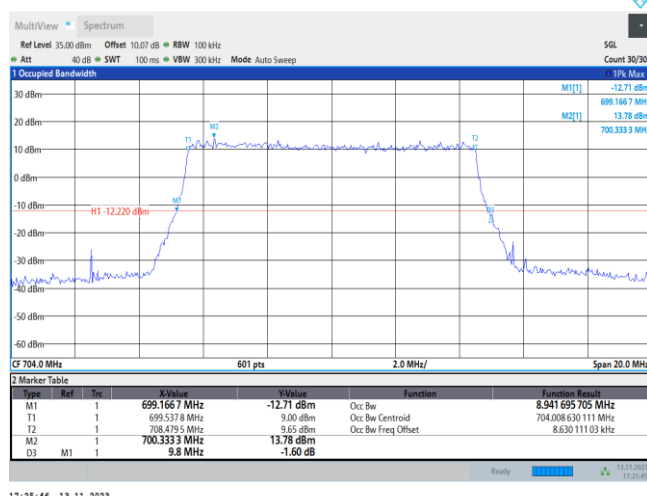
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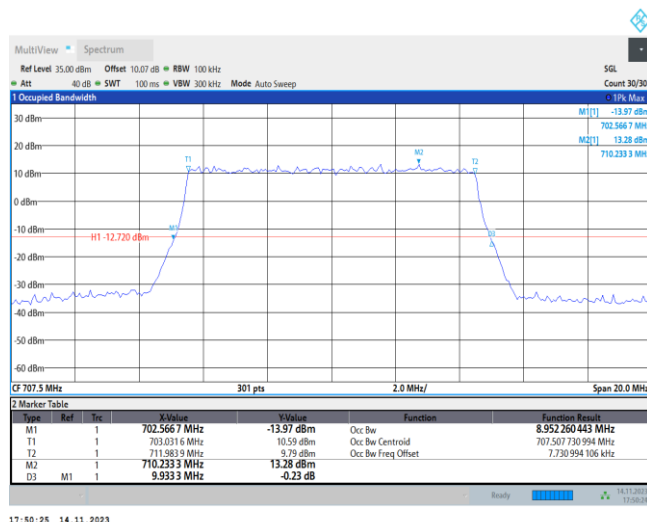
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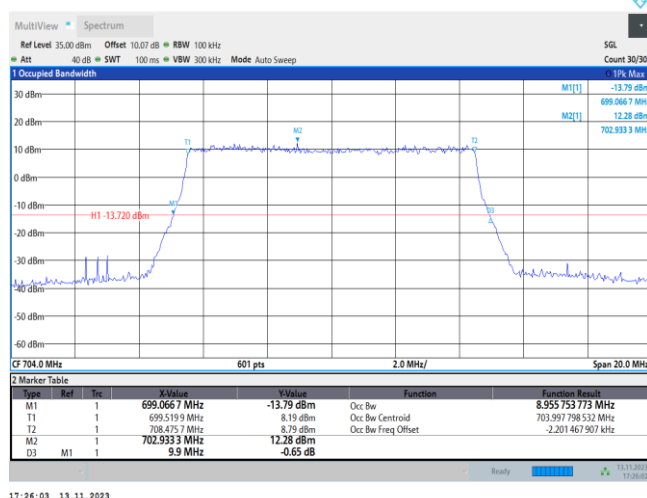
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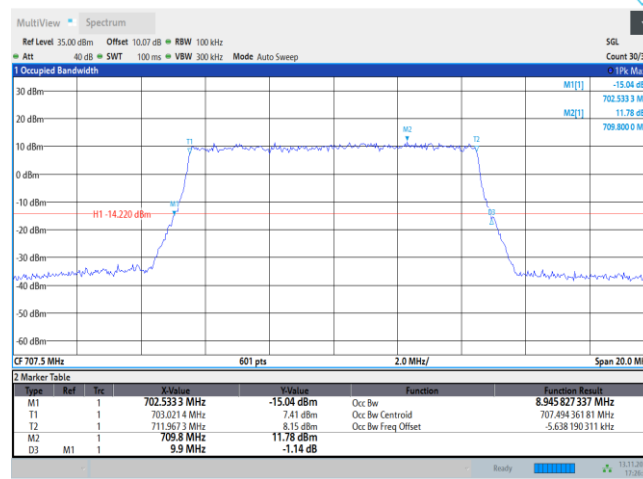
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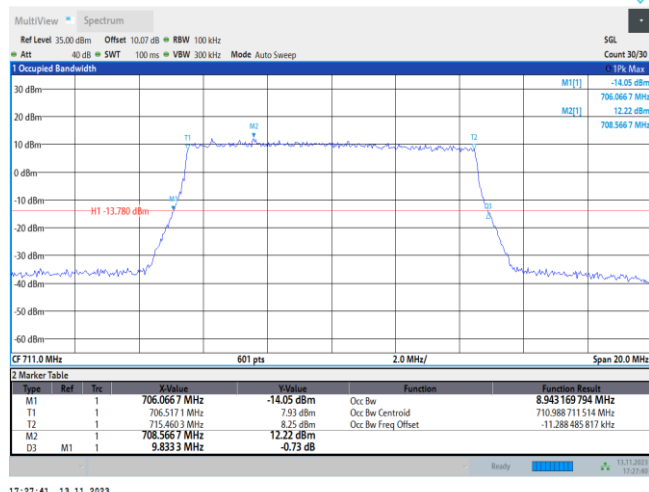
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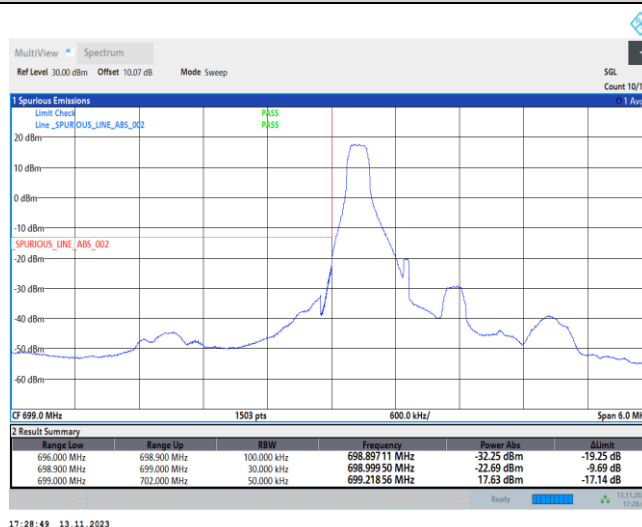
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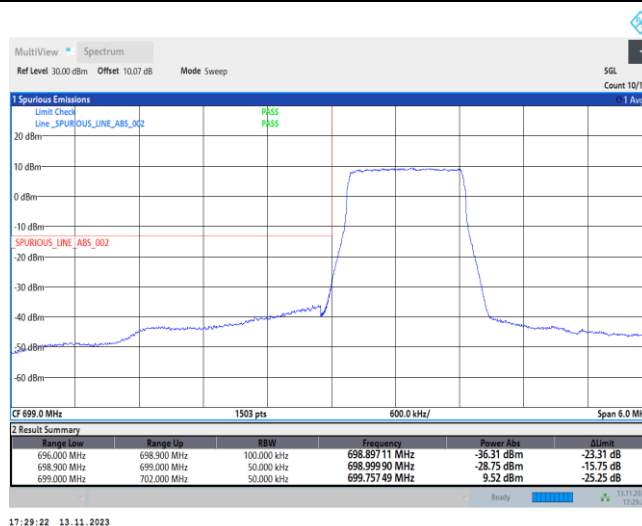
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Test Graphs

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



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



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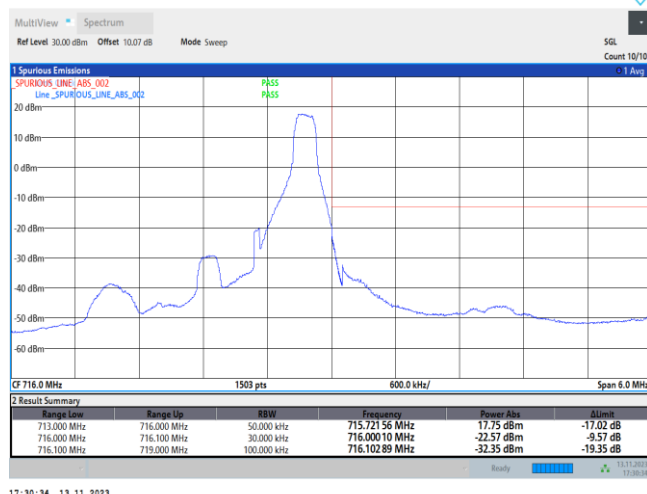
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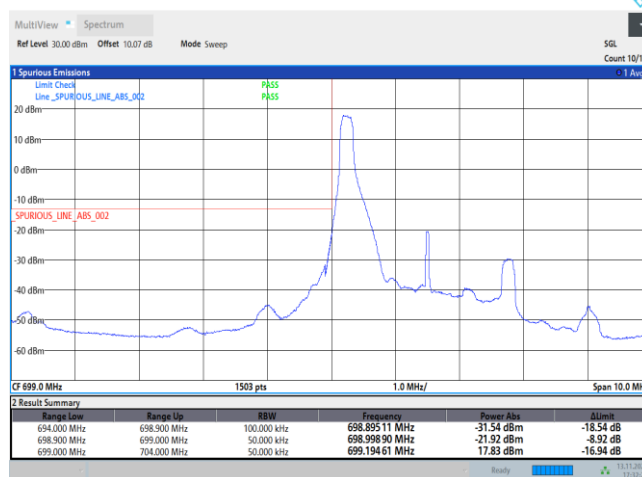
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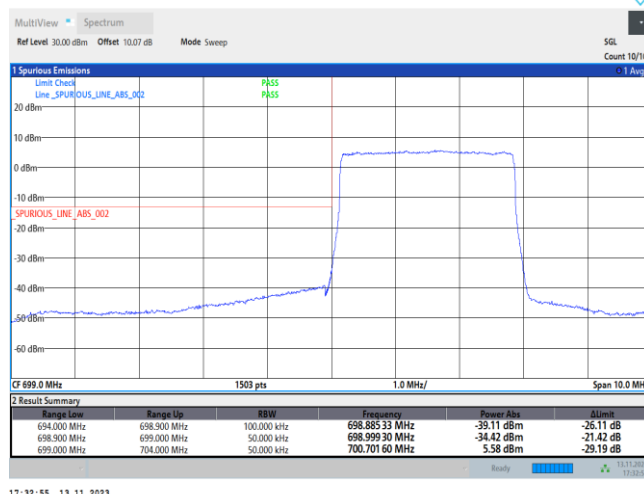
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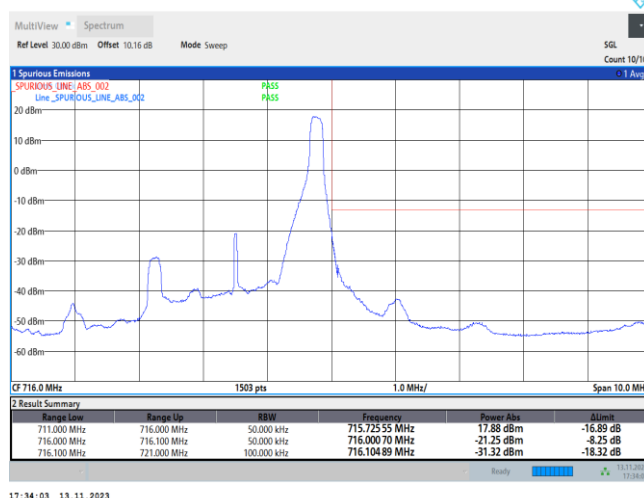
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Band12-3MHz-QPSK-23025-15RB#0



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



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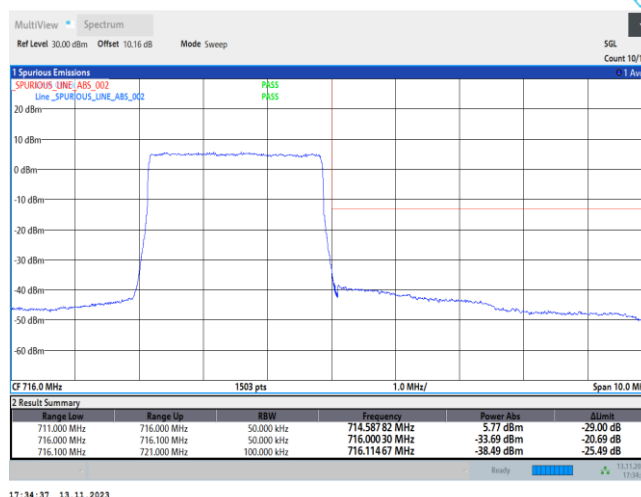
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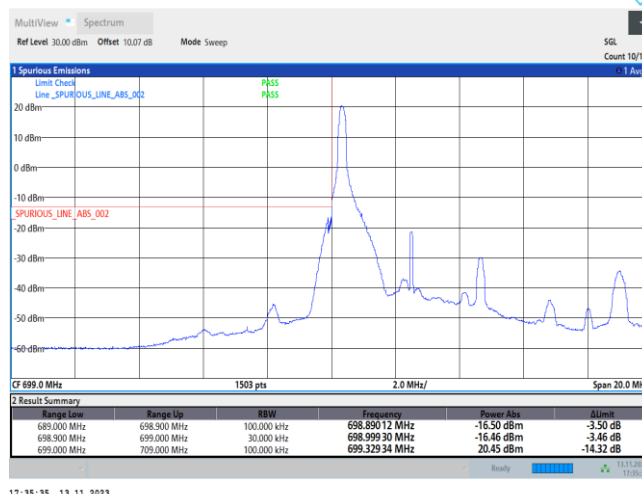
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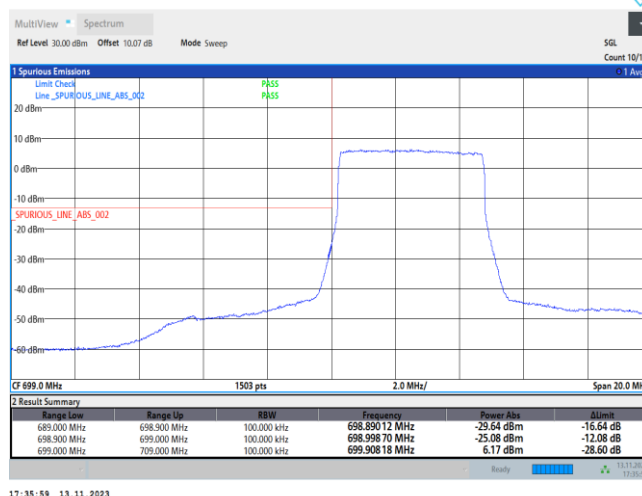
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Band12-5MHz-QPSK-23035-1RB#0



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



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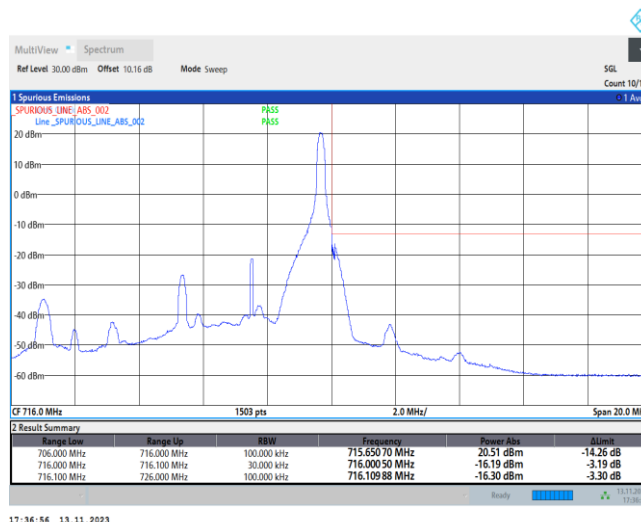
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Band12-5MHz-QPSK-23155-1RB#24



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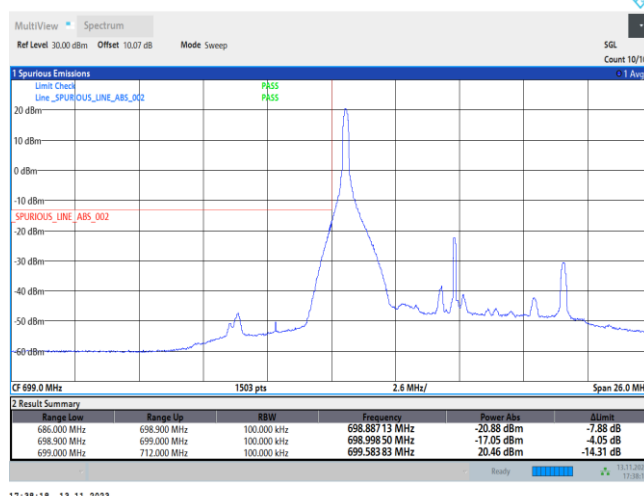
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Band12-5MHz-QPSK-23155-25RB#0



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



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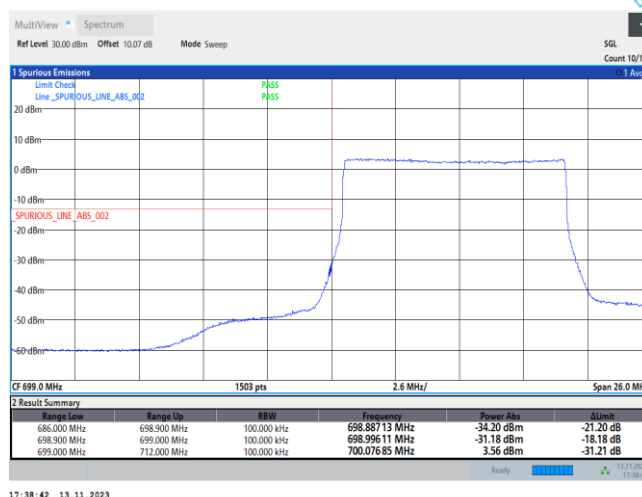
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Band12-10MHz-QPSK-23060-50RB#0



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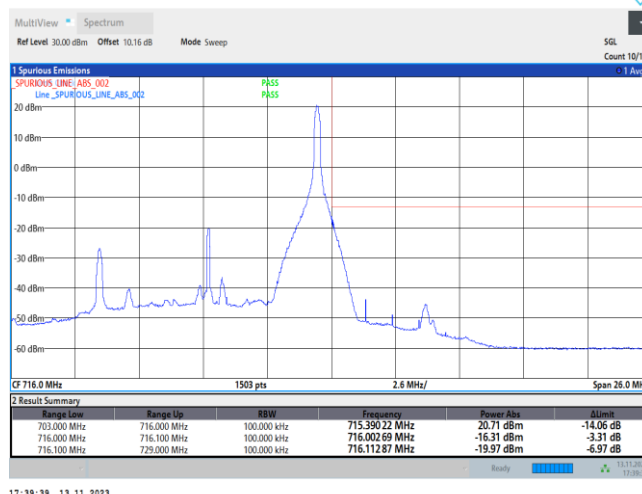
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Band12-10MHz-QPSK-23130-1RB#49



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



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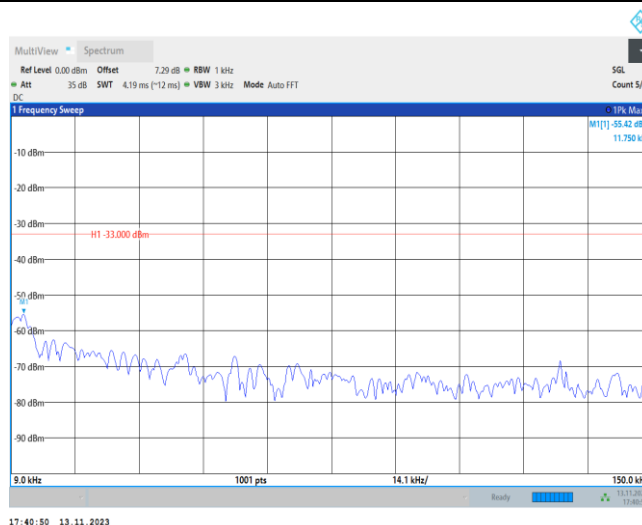
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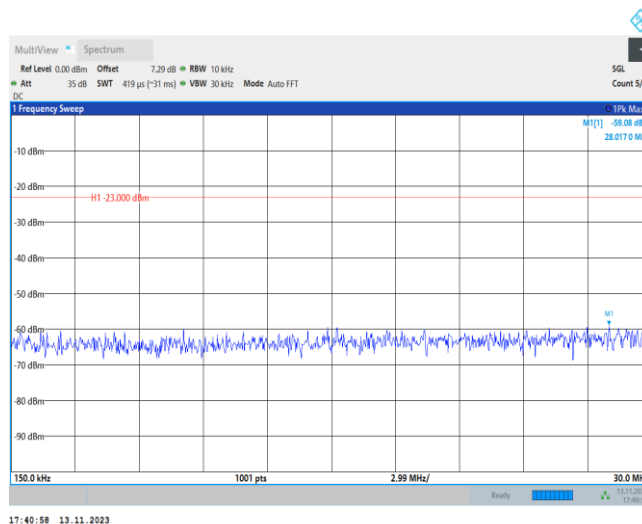
Conducted Spurious Emission

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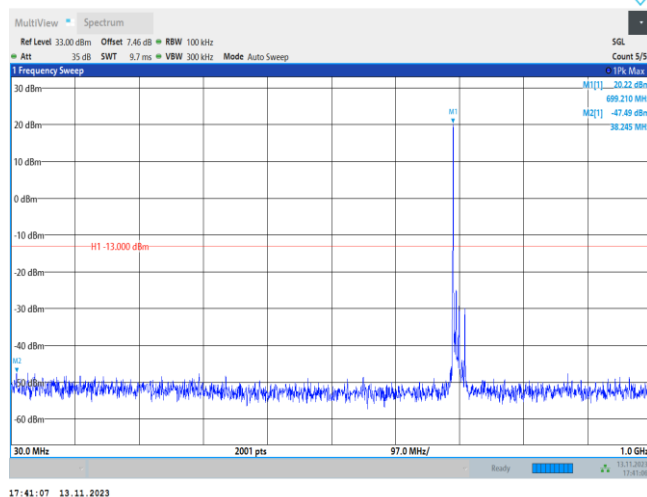
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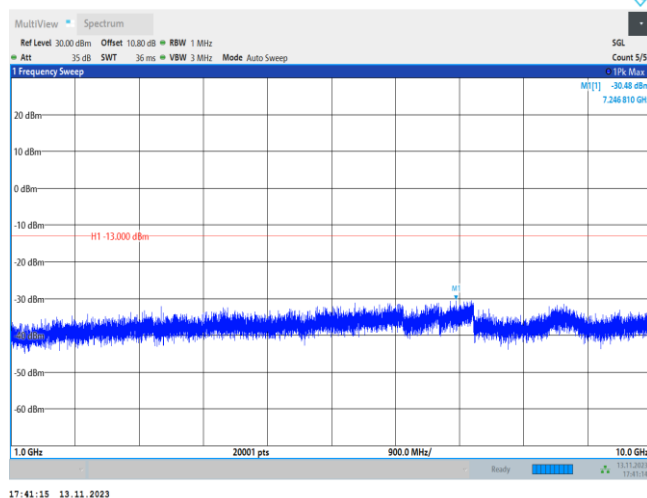
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



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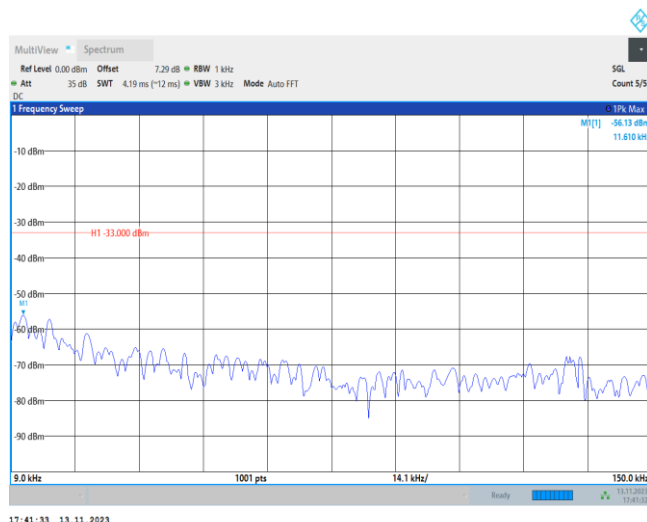
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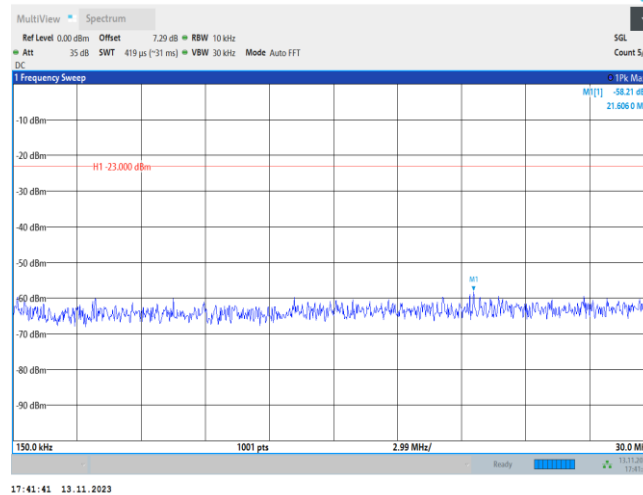
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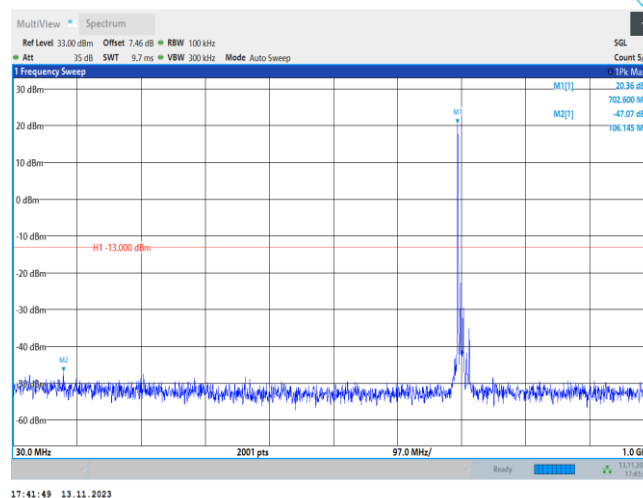
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Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



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



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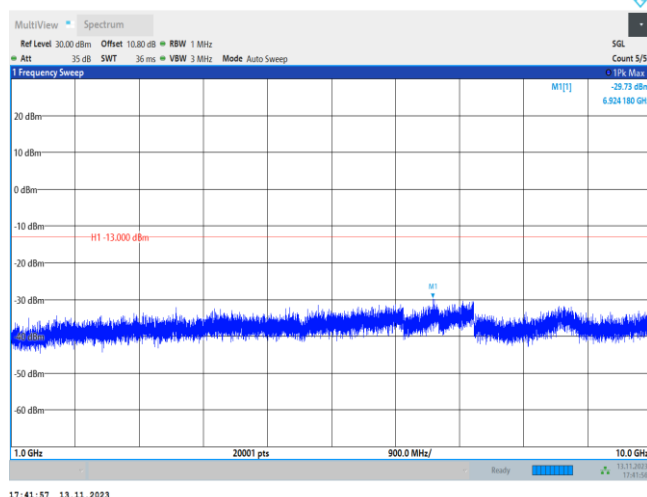
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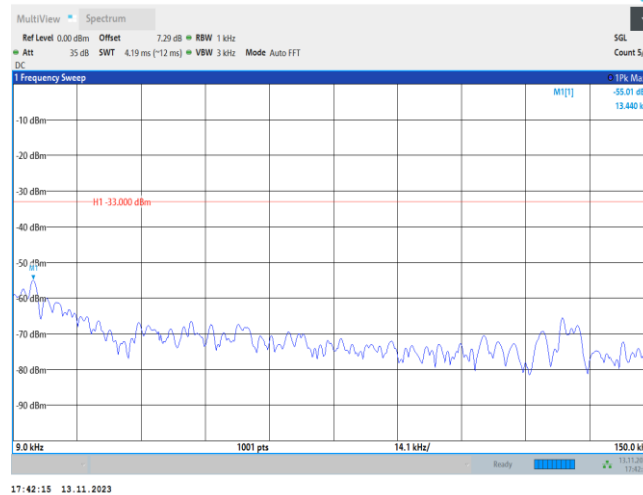
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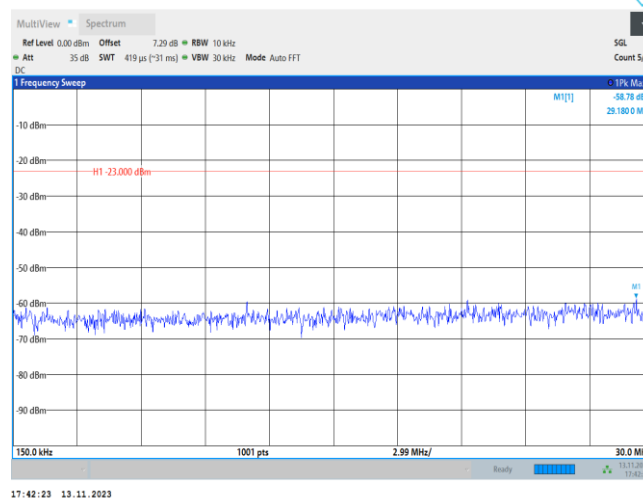
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



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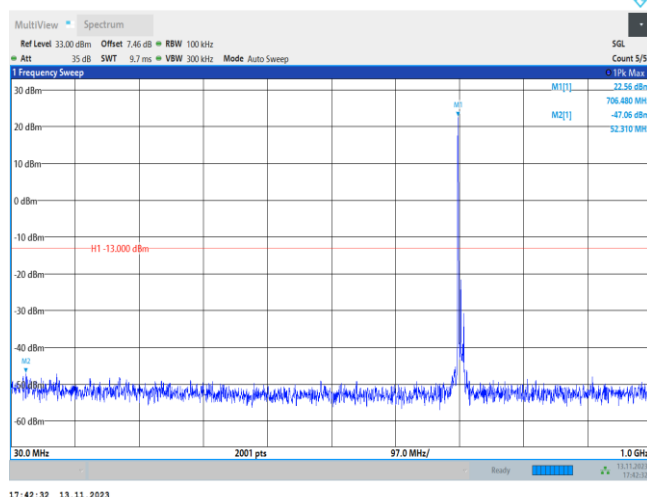
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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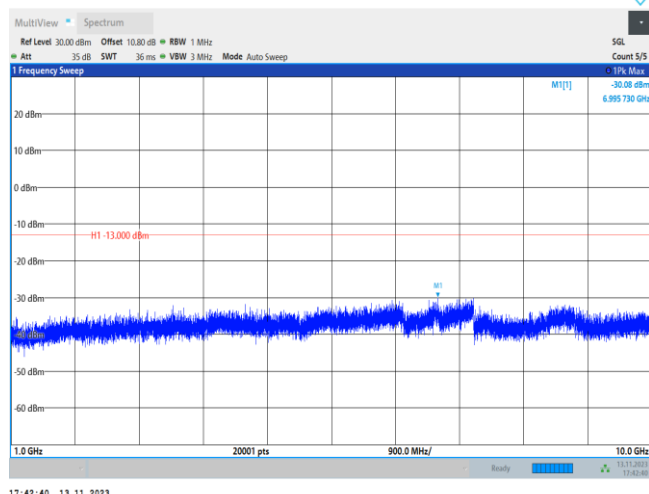
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Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation**Test Band = LTE_B12****Test Channel = LCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.5	60.38	-53.71	25.80	-62.79	-13.00	49.79	Horizontal
2	1779	59.71	-53.06	25.62	-62.99	-13.00	49.99	Horizontal
3	2099	55.94	-52.08	27.49	-63.91	-13.00	50.91	Horizontal
4	2860.5	53.70	-50.24	28.94	-62.86	-13.00	49.86	Horizontal
5	3765.5	54.28	-48.68	30.50	-59.16	-13.00	46.16	Horizontal
6	5271	51.72	-44.55	33.32	-54.77	-13.00	41.77	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	55.49	-53.59	25.77	-67.59	-13.00	54.59	Vertical
2	1766	56.57	-53.08	25.56	-66.21	-13.00	53.21	Vertical
3	2545	54.11	-50.93	28.27	-63.81	-13.00	50.81	Vertical
4	4173	52.58	-47.27	31.28	-58.67	-13.00	45.67	Vertical
5	6953	50.55	-43.95	36.41	-52.25	-13.00	39.25	Vertical
6	9080.5	49.02	-40.47	38.70	-48.01	-13.00	35.01	Vertical



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Test Band = LTE_B12

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.5	58.58	-53.65	25.79	-64.54	-13.00	51.54	Horizontal
2	1775.5	56.69	-53.06	25.60	-66.03	-13.00	53.03	Horizontal
3	2109	55.66	-52.11	27.48	-64.23	-13.00	51.23	Horizontal
4	3275.5	53.83	-49.80	30.65	-60.58	-13.00	47.58	Horizontal
5	4541	52.74	-46.23	32.05	-56.70	-13.00	43.70	Horizontal
6	7888	50.15	-42.19	37.33	-49.97	-13.00	36.97	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406	58.93	-53.66	25.79	-64.20	-13.00	51.20	Vertical
2	1778	61.05	-53.06	25.61	-61.66	-13.00	48.66	Vertical
3	2637.5	54.05	-51.10	28.33	-63.98	-13.00	50.98	Vertical
4	4141.5	52.90	-47.33	31.03	-58.66	-13.00	45.66	Vertical
5	6091	51.20	-43.86	34.48	-53.44	-13.00	40.44	Vertical
6	8551.5	48.86	-41.44	39.07	-48.77	-13.00	35.77	Vertical



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Test Band = LTE_B12

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	60.82	-53.59	25.77	-62.26	-13.00	49.26	Horizontal
2	1766	59.97	-53.08	25.56	-62.81	-13.00	49.81	Horizontal
3	2334	54.87	-51.92	27.80	-64.51	-13.00	51.51	Horizontal
4	3641	53.59	-49.29	30.36	-60.60	-13.00	47.60	Horizontal
5	5145.5	51.97	-44.29	33.59	-53.99	-13.00	40.99	Horizontal
6	7430.5	50.41	-42.72	36.74	-50.83	-13.00	37.83	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	63.66	-53.59	25.77	-59.42	-13.00	46.42	Vertical
2	1779	59.96	-53.06	25.62	-62.74	-13.00	49.74	Vertical
3	2546.5	53.93	-50.92	28.28	-63.97	-13.00	50.97	Vertical
4	3984	52.83	-47.96	31.04	-59.35	-13.00	46.35	Vertical
5	5672	51.66	-43.42	33.39	-53.63	-13.00	40.63	Vertical
6	8052.5	49.79	-41.63	37.60	-49.50	-13.00	36.50	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-2.80	-0.003958	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-3.30	-0.004664	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-4.50	-0.006360	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-7.10	-0.010035	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-5.10	-0.007208	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.00	-0.004240	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-7.30	-0.010318	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.50	-0.009187	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-6.70	-0.009470	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-5.50	-0.007774	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-5.30	-0.007491	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.40	-0.003392	PASS

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