



Appendix B.7

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.85	16.50	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.95	16.60	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.81	16.46	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.74	15.39	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.45	16.10	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.47	16.12	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.42	16.07	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.35	15.00	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.13	15.78	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.11	15.76	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.06	15.71	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.03	14.68	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.14	15.79	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.15	15.80	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.00	15.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.82	14.47	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.57	15.22	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.60	15.25	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.51	15.16	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.39	14.04	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.29	14.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.15	14.80	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.13	14.78	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.11	13.76	34.77	PASS



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Band12	1.4MHz	64QAM	23017	1RB#0	21.98	14.63	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.92	14.57	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.87	14.52	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.72	13.37	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.54	14.19	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.56	14.21	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.45	14.10	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.32	12.97	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.13	13.78	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.19	13.84	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.13	13.78	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.93	12.58	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.83	16.48	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.82	16.47	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.70	16.35	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.73	15.38	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.49	16.14	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.42	16.07	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.39	16.04	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.36	15.01	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.12	15.77	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.14	15.79	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.03	15.68	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.04	14.69	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.07	15.72	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.05	15.70	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.94	15.59	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.77	14.42	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.65	15.30	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.47	15.12	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.56	15.21	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.37	14.02	34.77	PASS



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Band12	3MHz	16QAM	23165	1RB#0	22.33	14.98	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.35	15.00	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.17	14.82	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.04	13.69	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.90	14.55	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.84	14.49	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.81	14.46	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.67	13.32	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.52	14.17	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.51	14.16	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.42	14.07	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.34	12.99	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.21	13.86	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.19	13.84	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.11	13.76	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.03	12.68	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.99	16.64	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.84	16.49	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.68	16.33	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.70	15.35	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.66	16.31	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.54	16.19	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.35	16.00	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.35	15.00	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.33	15.98	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.19	15.84	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.14	15.79	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.14	14.79	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.13	15.78	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.96	15.61	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.85	15.50	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.75	14.40	34.77	PASS



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Band12	5MHz	16QAM	23095	1RB#0	22.77	15.42	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.66	15.31	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.53	15.18	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.37	14.02	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.47	15.12	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.37	15.02	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.15	14.80	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.15	13.80	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	22.01	14.66	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.85	14.50	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.66	14.31	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.70	13.35	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.68	14.33	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.56	14.21	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.39	14.04	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.36	13.01	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.41	14.06	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.18	13.83	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.09	13.74	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.11	12.76	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.91	16.56	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.65	16.30	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.45	16.10	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.64	15.29	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.70	16.35	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.49	16.14	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.20	15.85	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.33	14.98	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.52	16.17	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.37	16.02	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.07	15.72	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.17	14.82	34.77	PASS



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Band12	10MHz	16QAM	23060	1RB#0	23.07	15.72	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.86	15.51	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.59	15.24	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.64	14.29	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.85	15.50	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.63	15.28	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.35	15.00	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.29	13.94	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.74	15.39	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.51	15.16	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.25	14.90	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.13	13.78	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.96	14.61	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.70	14.35	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.45	14.10	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.62	13.27	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.76	14.41	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.58	14.23	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.28	13.93	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.31	12.96	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.60	14.25	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.35	14.00	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.09	13.74	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.11	12.76	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	4.98	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.08	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.06	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.76	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.90	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.86	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.30	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.12	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.16	13	PASS



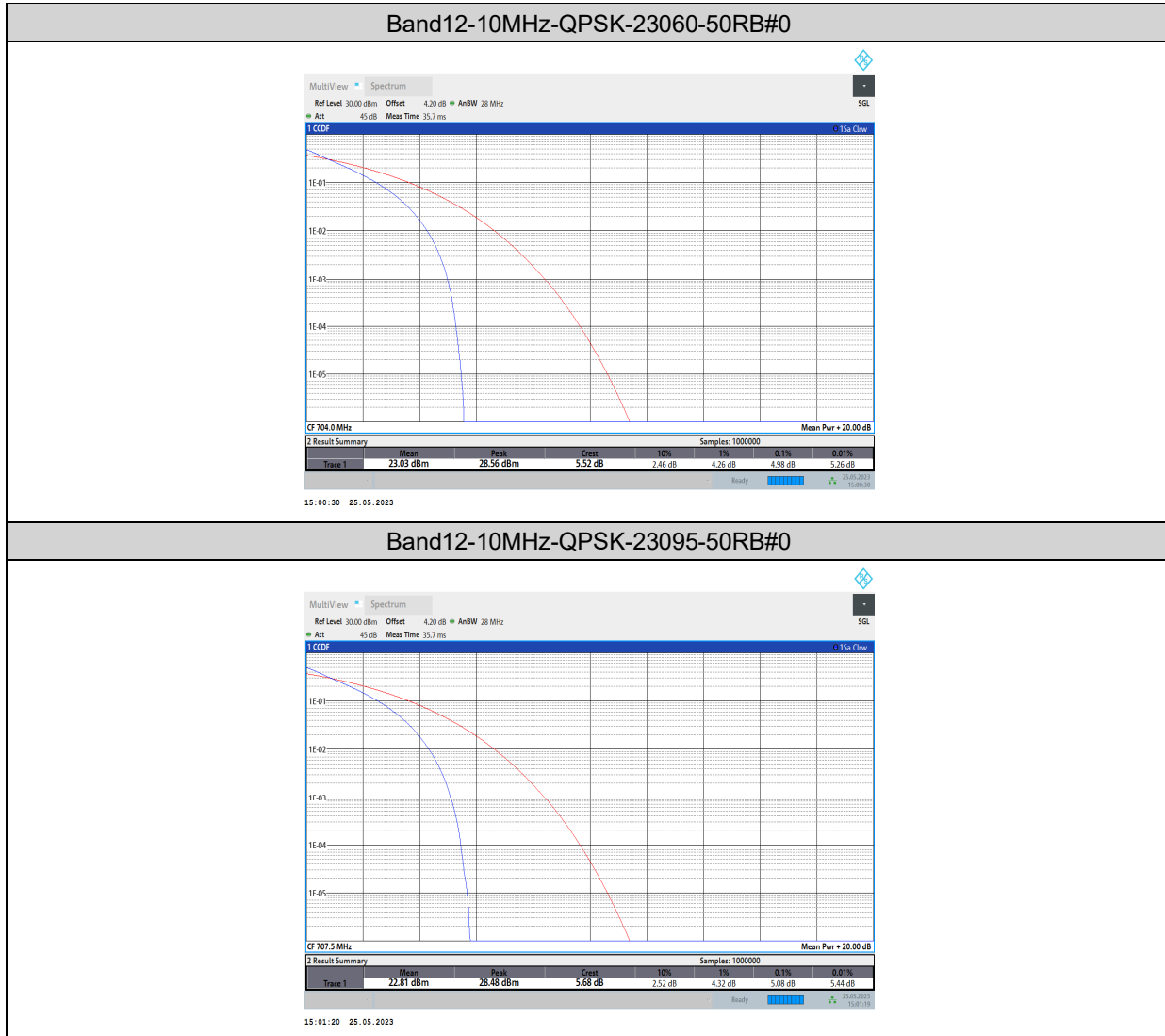
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Test Graphs



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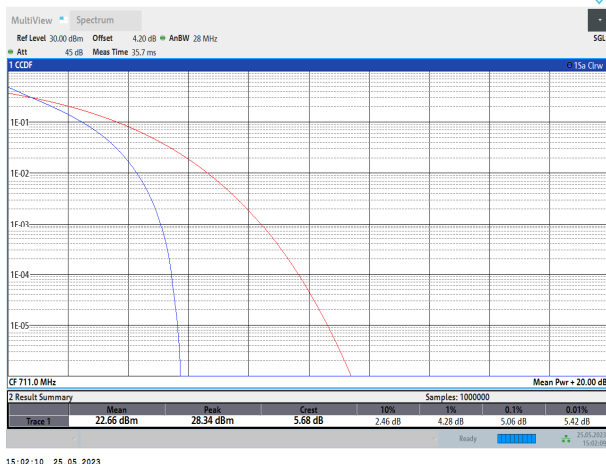
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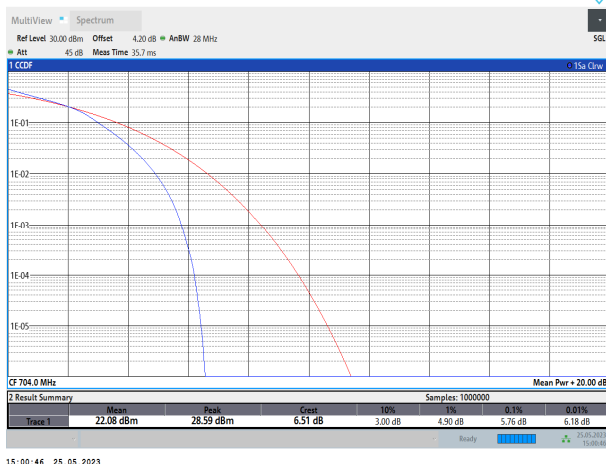
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Band12-10MHz-QPSK-23130-50RB#0



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



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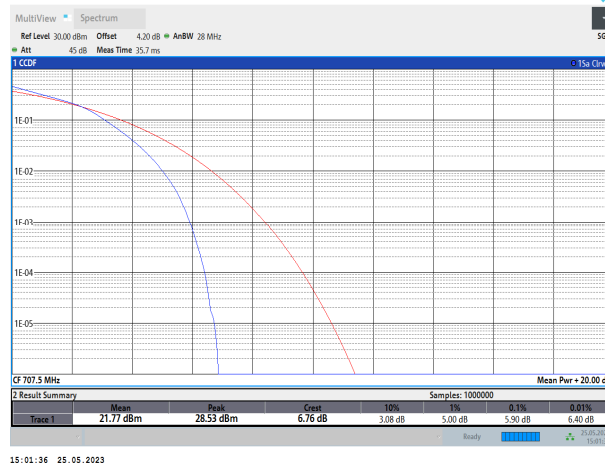
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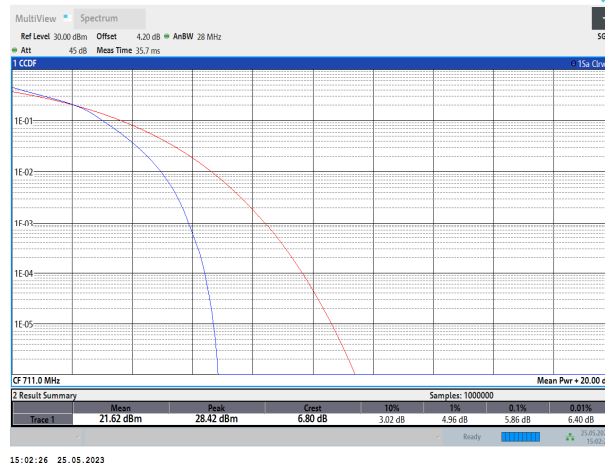
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Band12-10MHz-16QAM-23095-50RB#0



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



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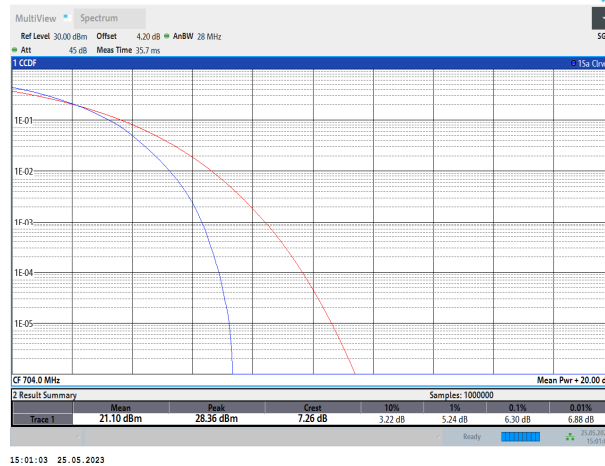
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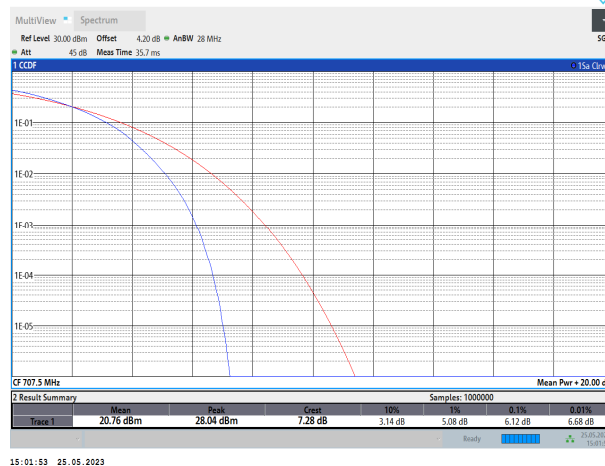
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Band12-10MHz-64QAM-23060-50RB#0



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



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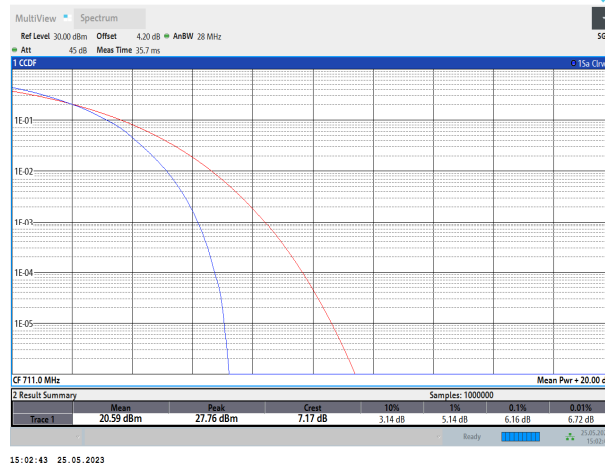


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Band12-10MHz-64QAM-23130-50RB#0



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Modulation Characteristics

Test Result

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



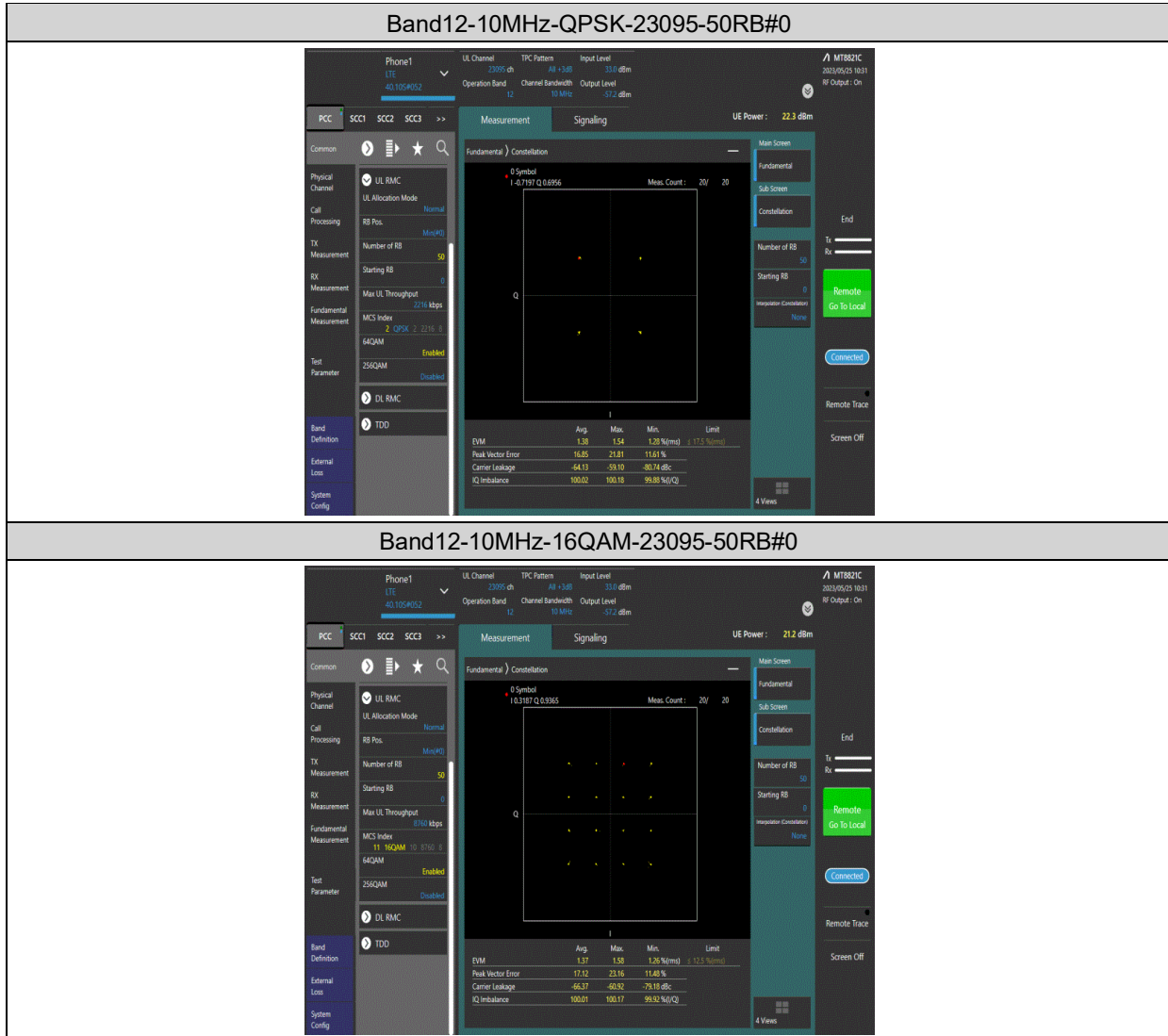
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Test Graphs



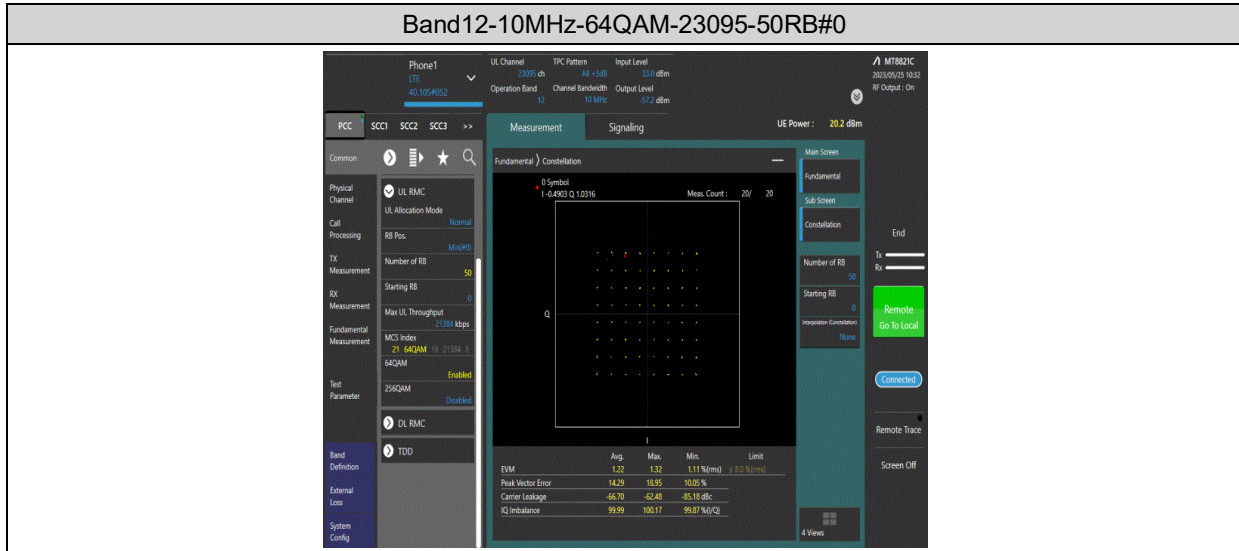
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Band12-10MHz-64QAM-23095-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.085	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.085	1.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.089	1.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.094	1.28	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.28	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.084	1.26	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.099	1.29	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.093	1.28	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.095	1.28	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.682	2.90	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.701	2.92	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.685	2.87	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.689	2.89	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.685	2.91	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.684	2.86	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.681	2.94	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.686	2.90	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.686	2.90	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.476	4.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.462	4.85	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.480	4.80	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.472	4.88	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.462	4.83	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.468	4.80	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.484	4.82	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.479	4.84	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.484	4.86	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.966	9.54	PASS



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Band12	10MHz	QPSK	23095	50RB#0	8.934	9.48	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.928	9.56	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.928	9.52	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.920	9.44	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.912	9.46	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.942	9.60	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.932	9.54	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.924	9.52	PASS



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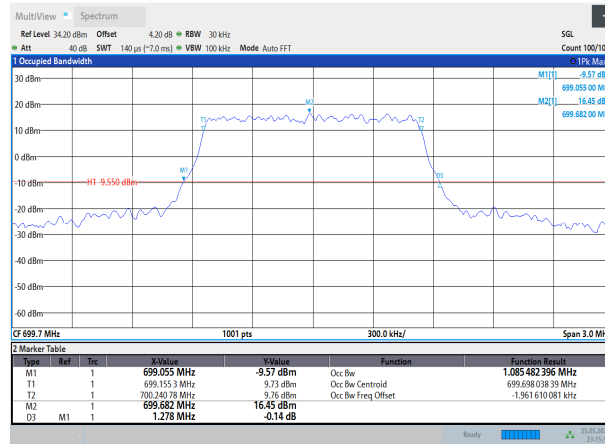
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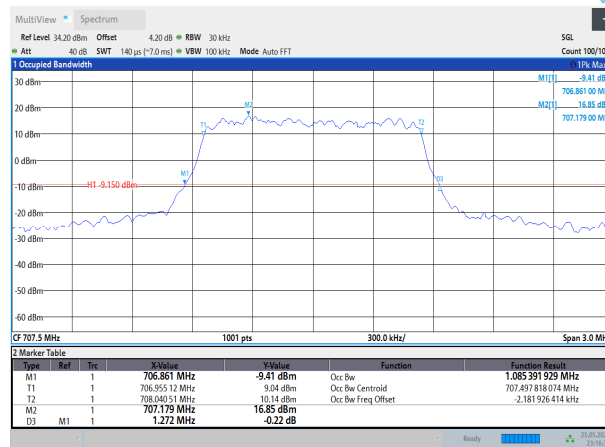
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Band12-1.4MHz-QPSK-23017-6RB#0



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



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



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



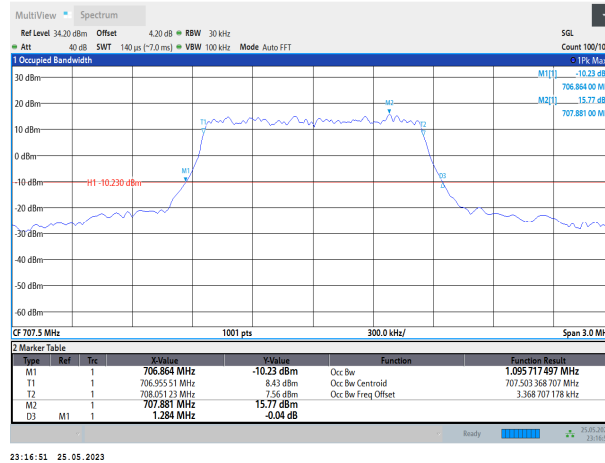
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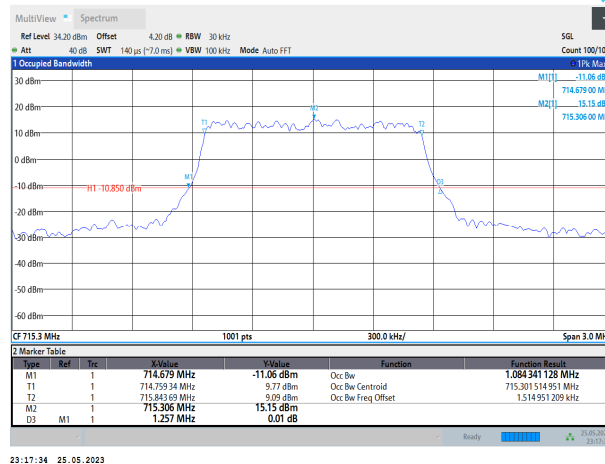
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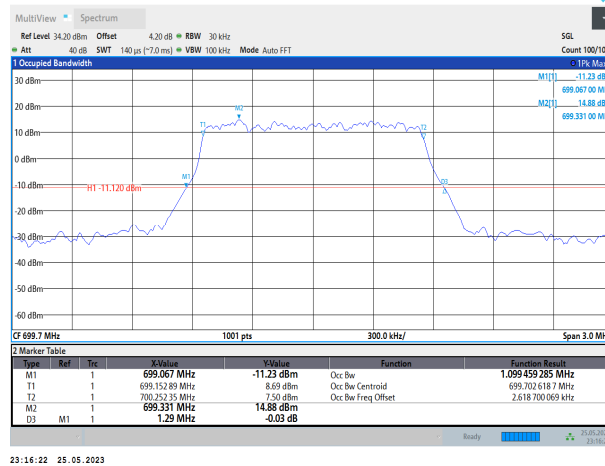
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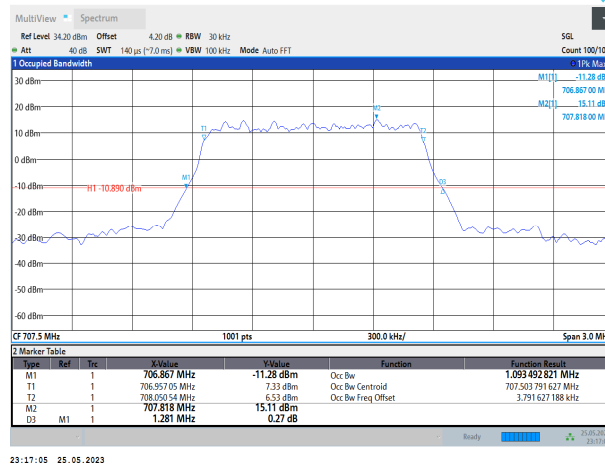
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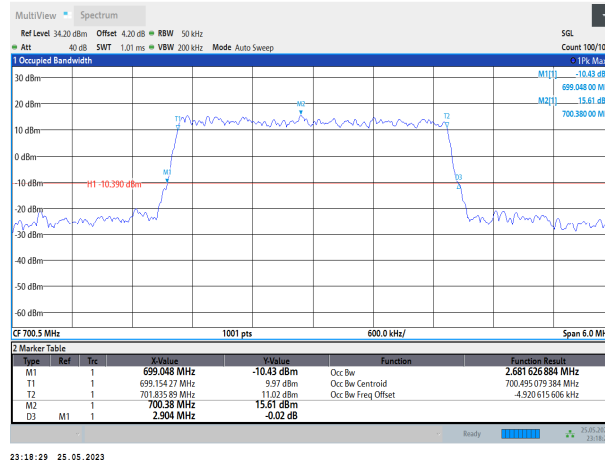
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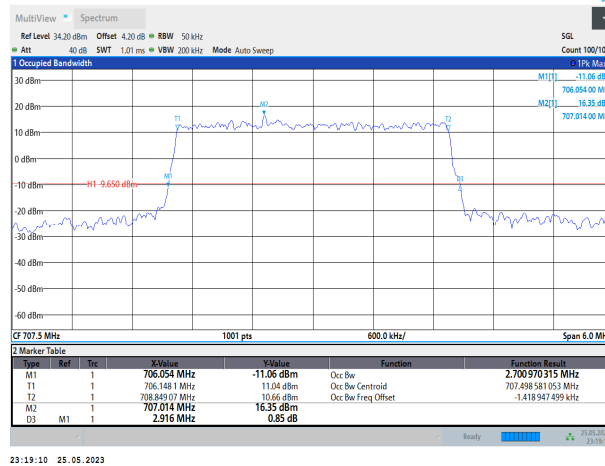
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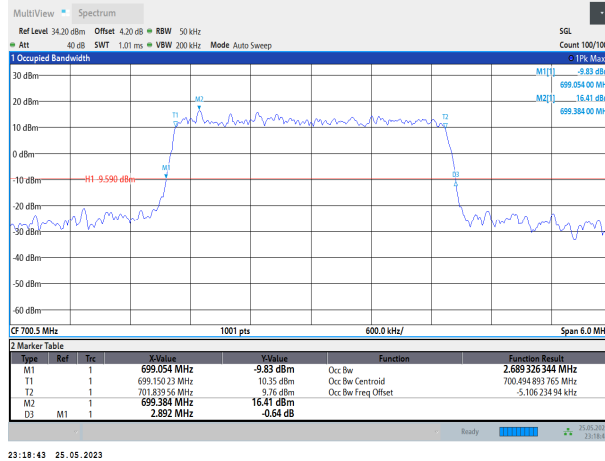


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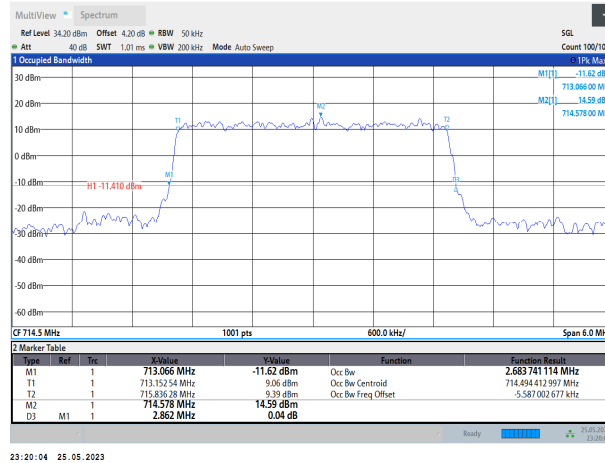
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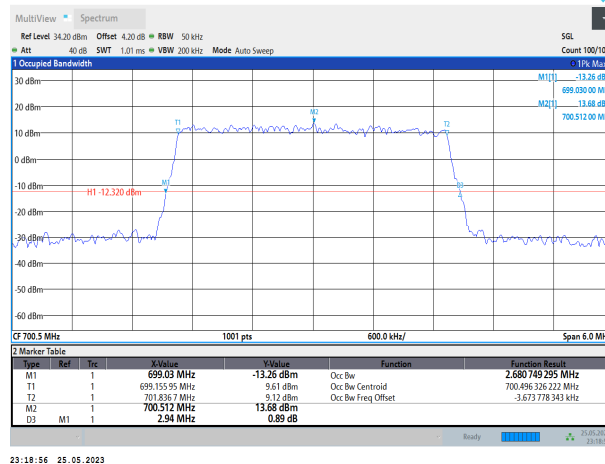
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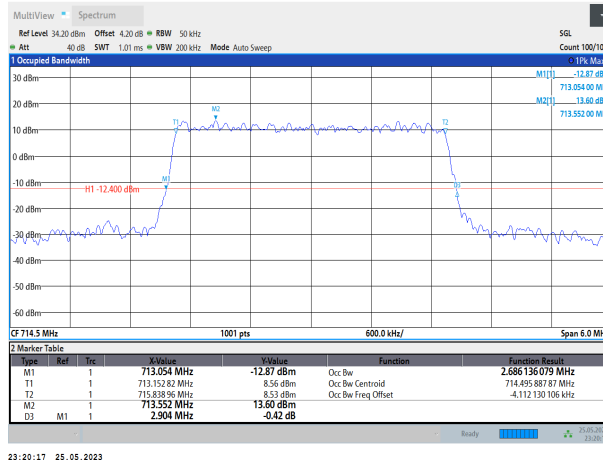
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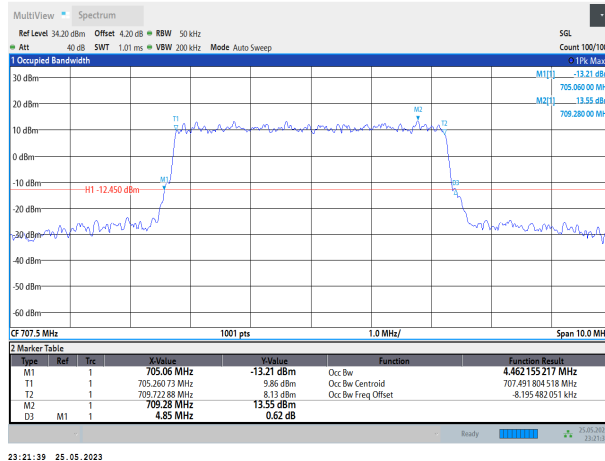
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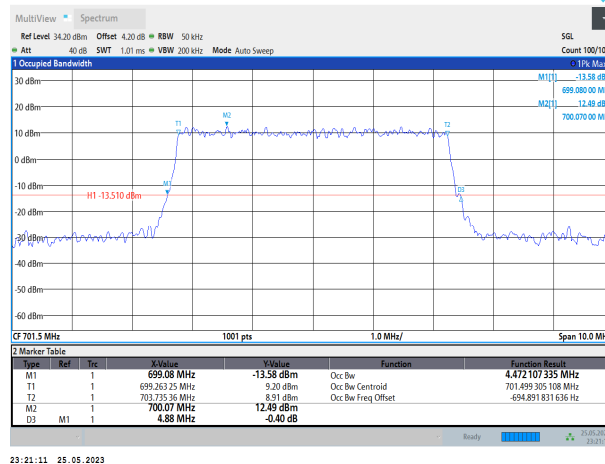
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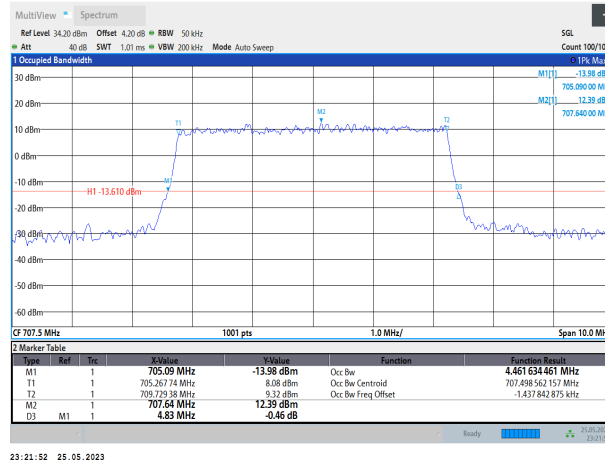
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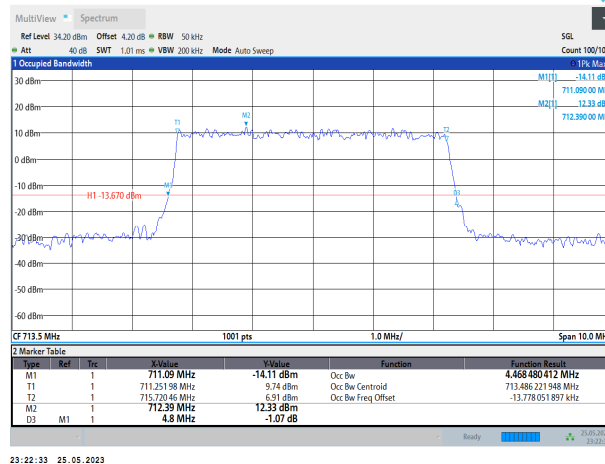
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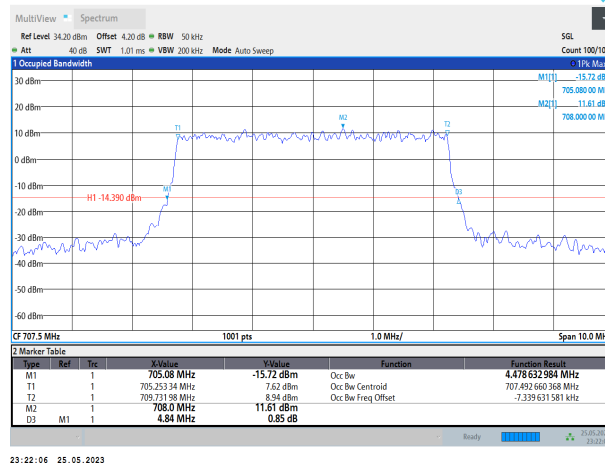
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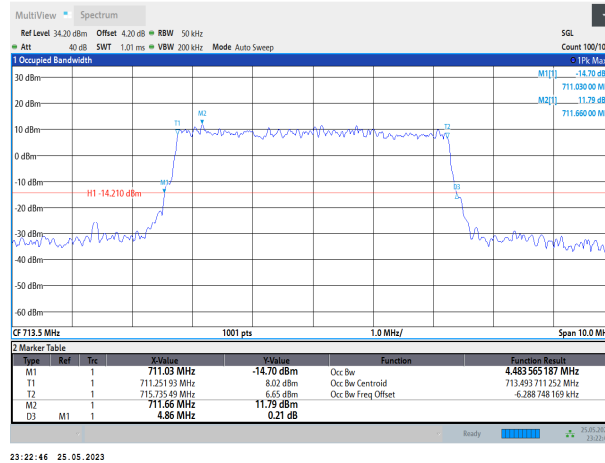
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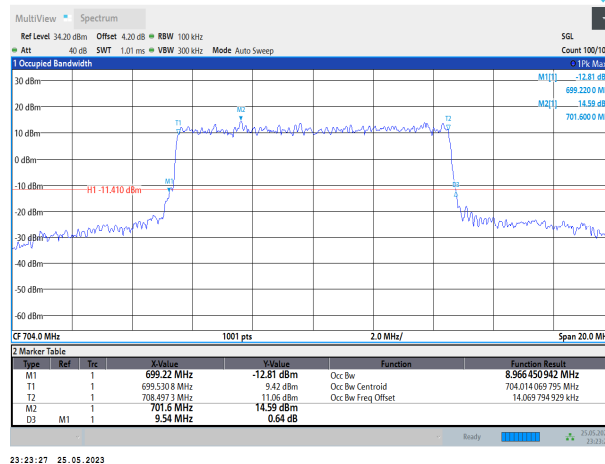
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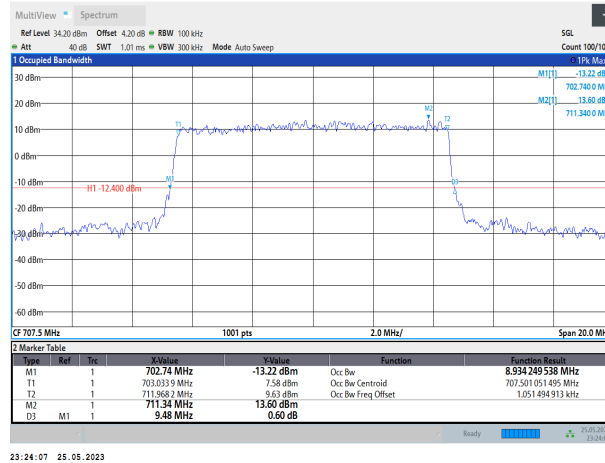
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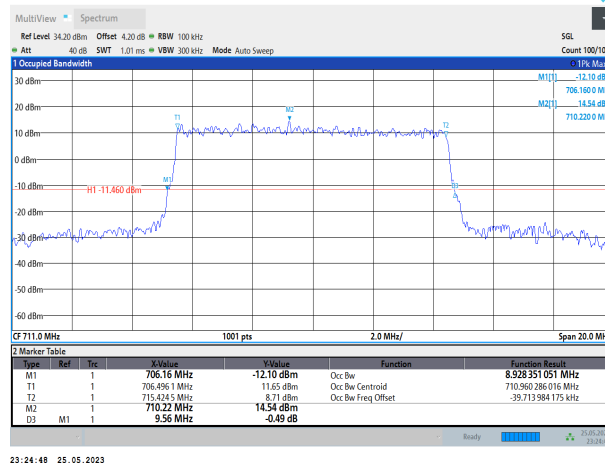
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Band12-10MHz-QPSK-23130-50RB#0



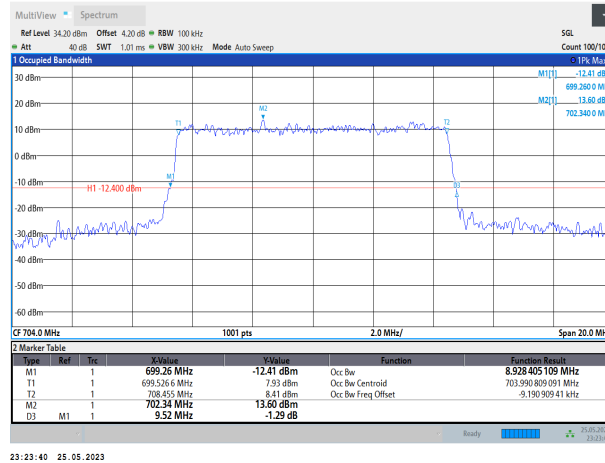
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Band12-10MHz-16QAM-23060-50RB#0



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



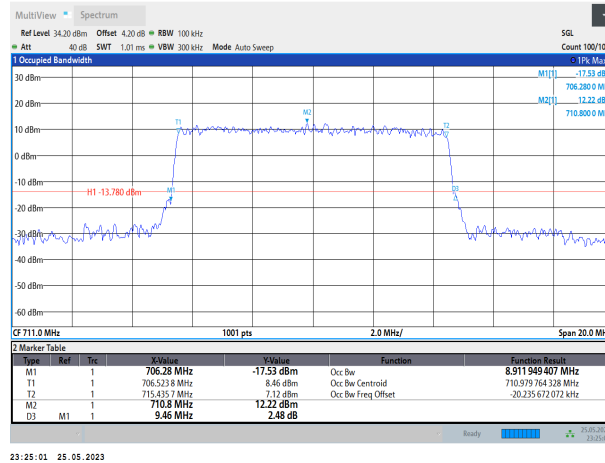
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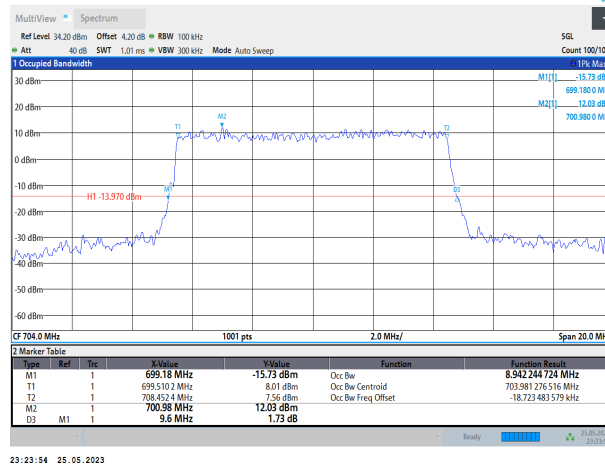
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Band12-10MHz-16QAM-23130-50RB#0



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



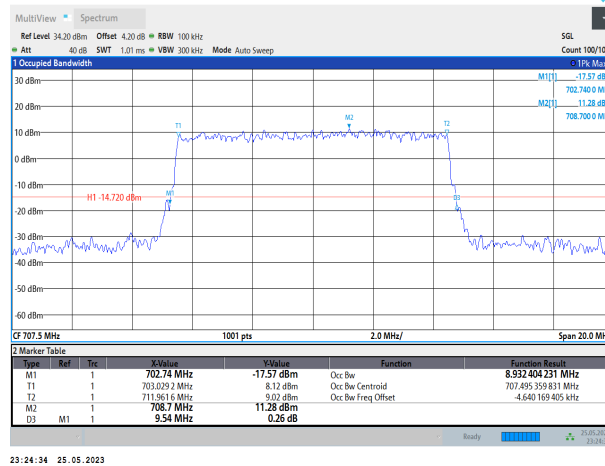
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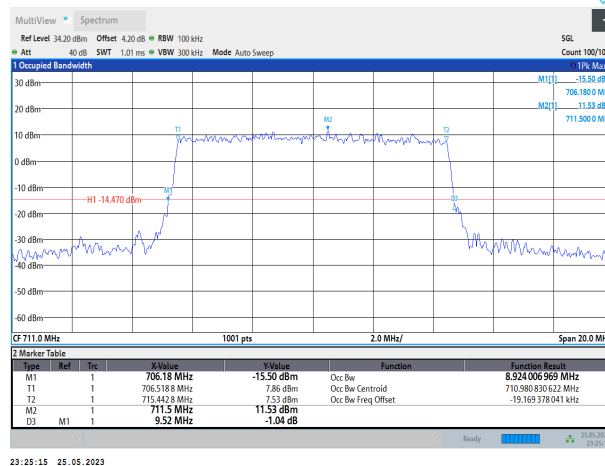
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Band12-10MHz-64QAM-23095-50RB#0



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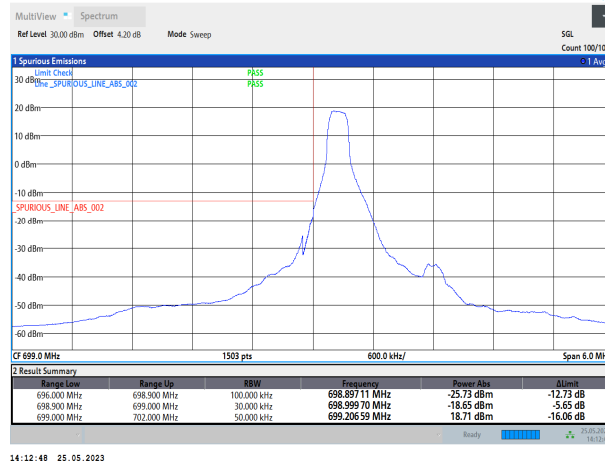
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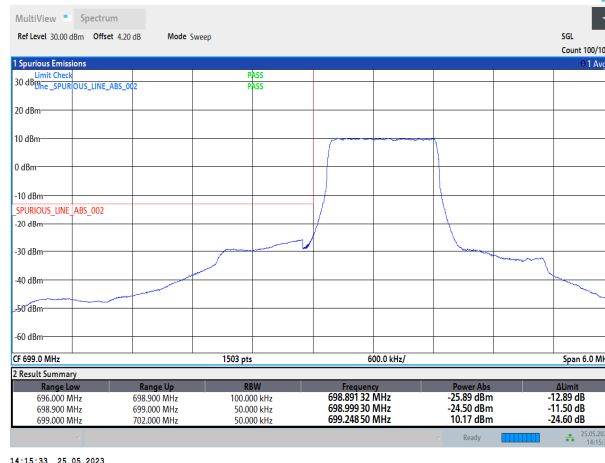
Band Edge

Test Graphs

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



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



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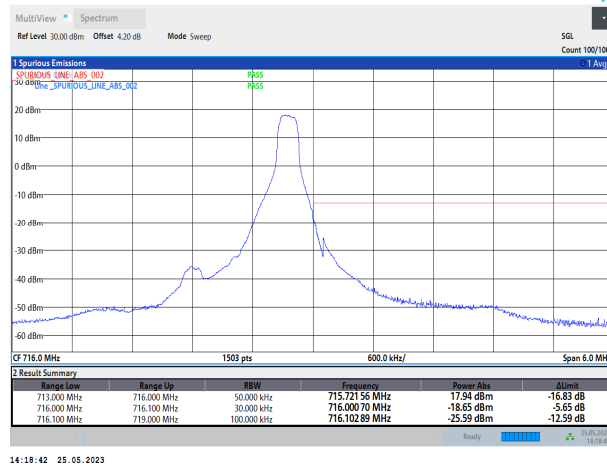
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Band12-1.4MHz-QPSK-23173-1RB#5



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



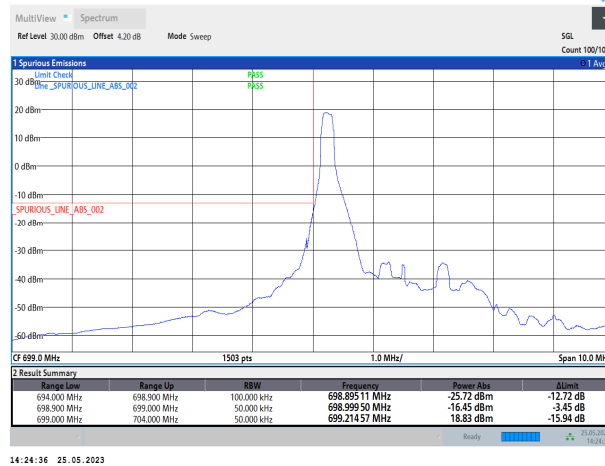
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Band12-3MHz-QPSK-23025-1RB#0



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



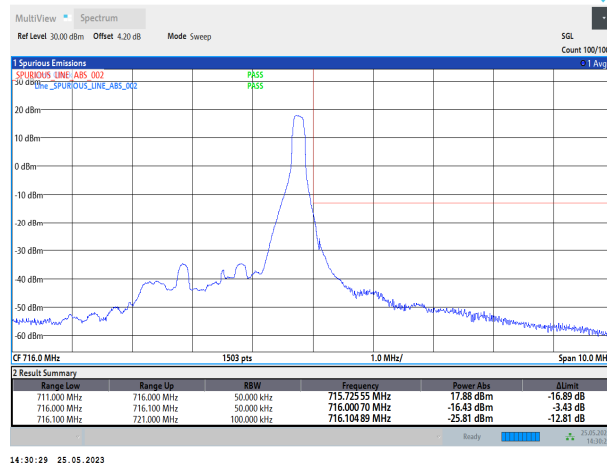
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Band12-3MHz-QPSK-23165-1RB#14



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

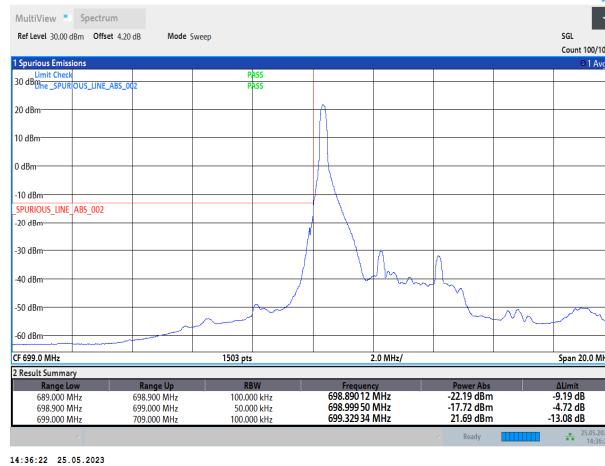


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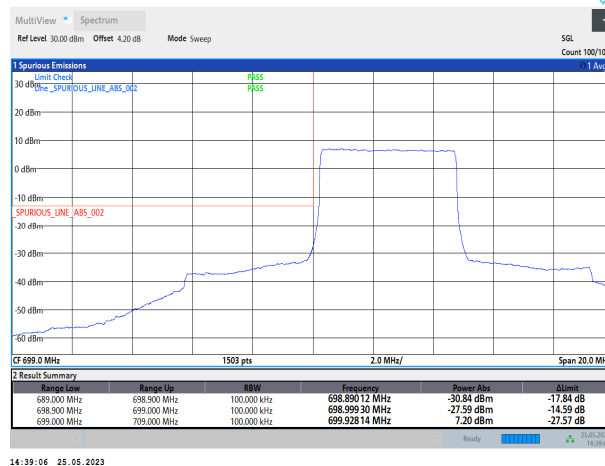
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Band12-5MHz-QPSK-23035-1RB#0



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

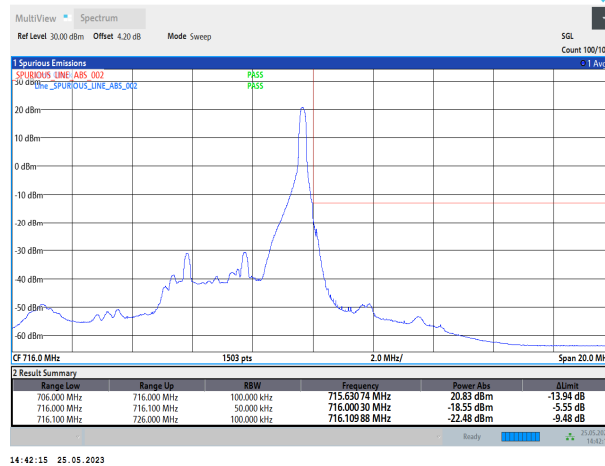


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Band12-5MHz-QPSK-23155-1RB#24



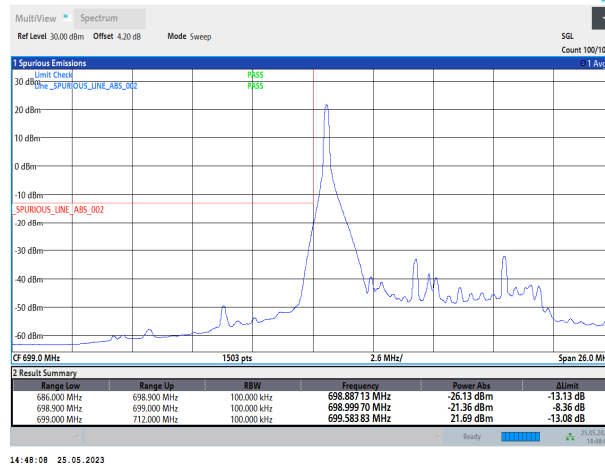
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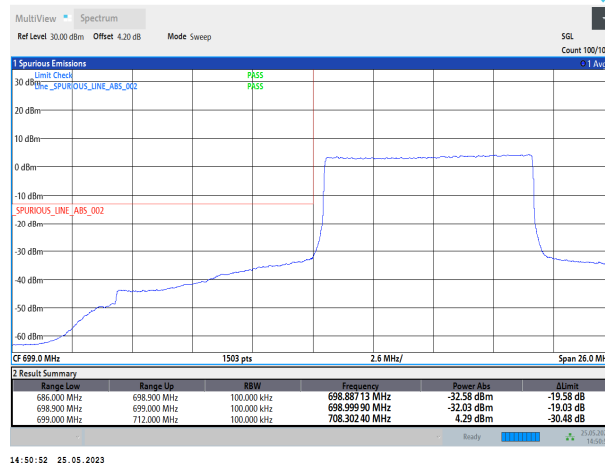
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Band12-10MHz-QPSK-23060-1RB#0



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



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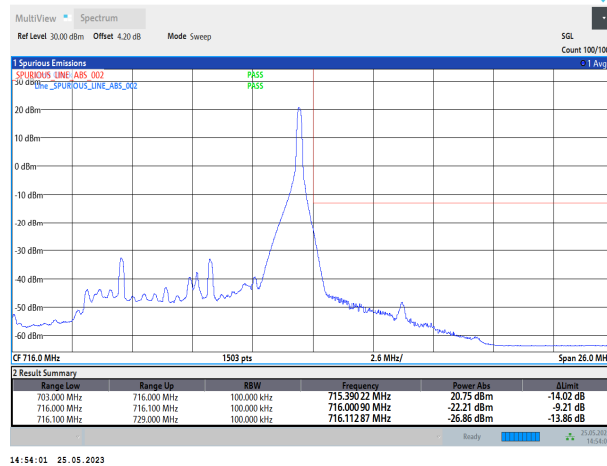
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Band12-10MHz-QPSK-23130-1RB#49



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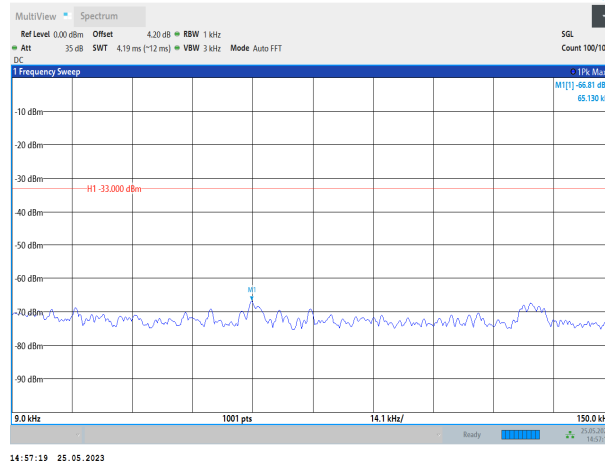
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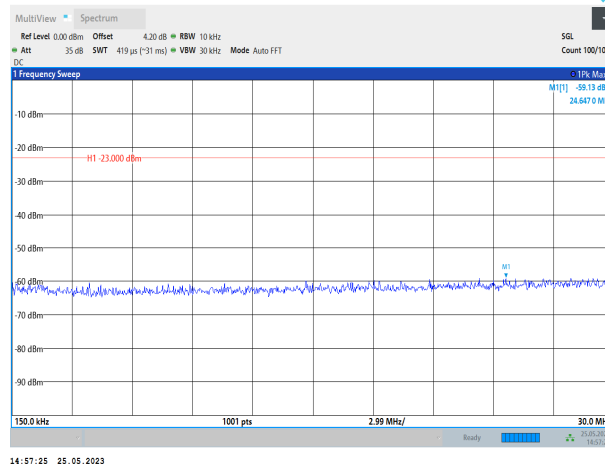
Conducted Spurious Emission

Test Graphs

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



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



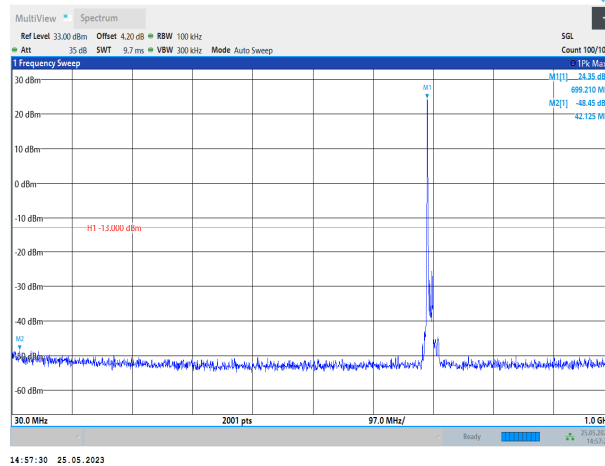
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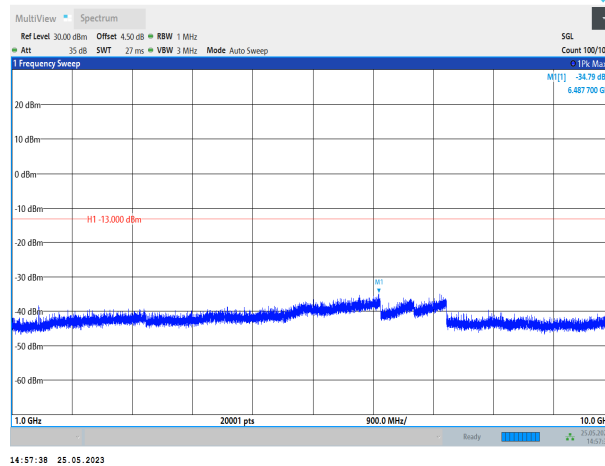
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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

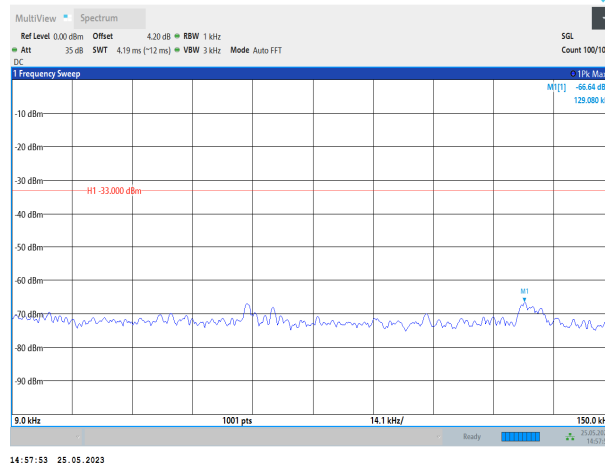


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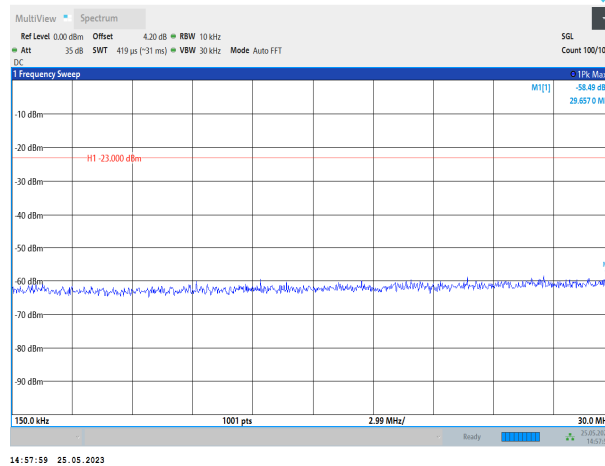
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



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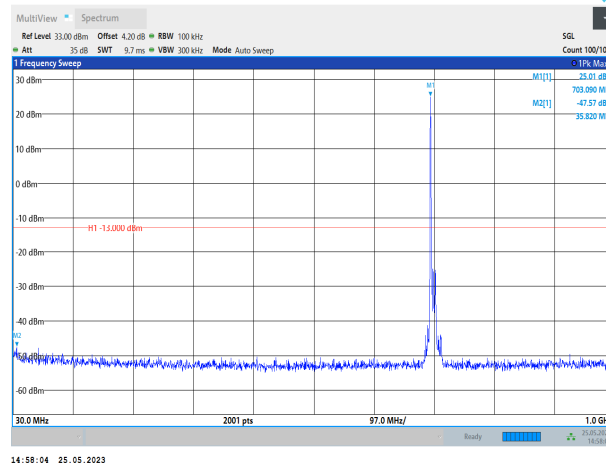
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Report No.: SEWM2306000194RG01

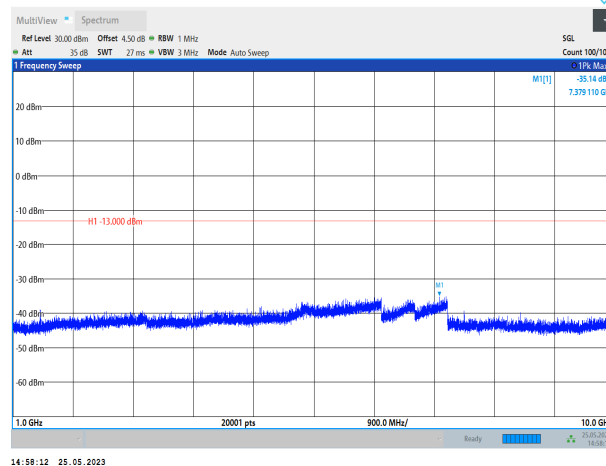
Rev.: 01

Page: 47 of 56

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



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



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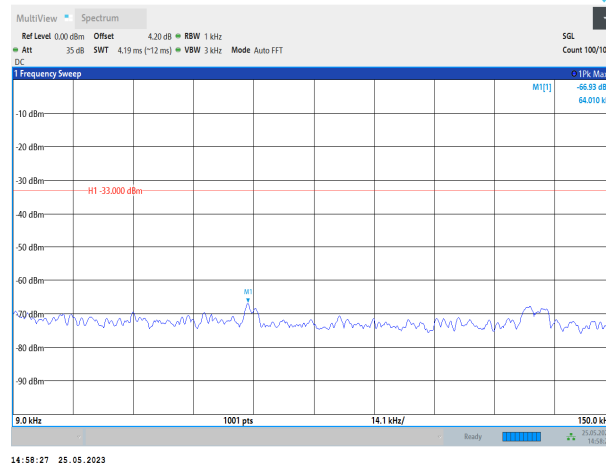
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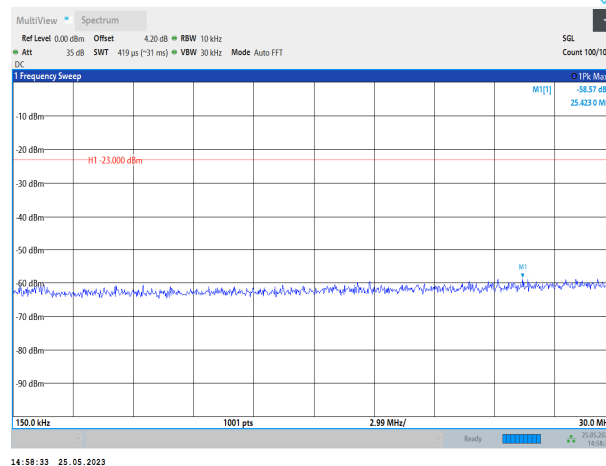
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



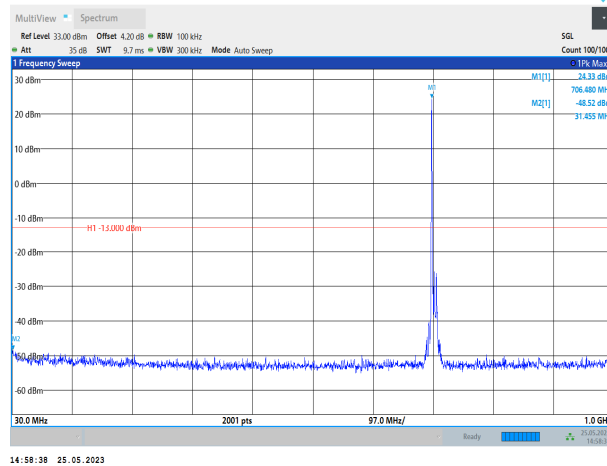
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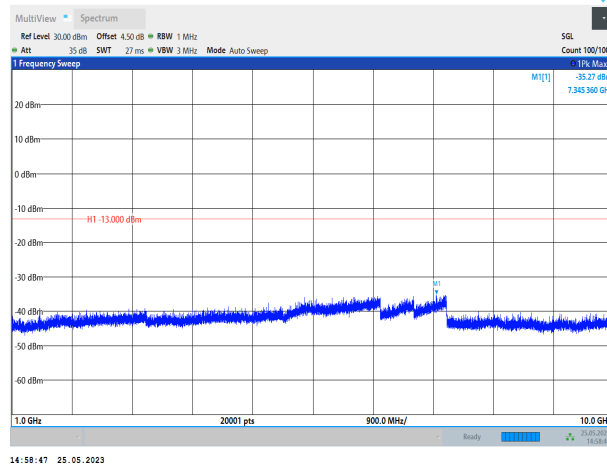
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 12_ TM1_ Ant13

Test Channel = Low Channel_10MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1111	65.09	-48.73	25.40	-53.50	-13.00	40.50	147	32	Horizontal
2	2098.77	41.89	-47.88	27.10	-74.15	-13.00	61.15	269	267	Horizontal
3	2798.36	41.77	-46.69	28.92	-71.26	-13.00	58.26	238	315	Horizontal
4	3497.95	42.04	-46.05	29.40	-69.87	-13.00	56.87	196	47	Horizontal
5	4197.54	41.31	-45.12	30.92	-68.15	-13.00	55.15	205	80	Horizontal
6	4897.13	40.05	-45.14	32.35	-67.99	-13.00	54.99	188	300	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1111	58.03	-48.73	25.40	-60.56	-13.00	47.56	296	266	Vertical
2	2098.77	41.37	-47.88	27.10	-74.67	-13.00	61.67	244	7	Vertical
3	2798.36	42.52	-46.69	28.92	-70.51	-13.00	57.51	178	7	Vertical
4	3497.95	42.22	-46.05	29.40	-69.69	-13.00	56.69	163	313	Vertical
5	4197.54	41.02	-45.12	30.92	-68.44	-13.00	55.44	209	90	Vertical
6	4897.13	40.49	-45.14	32.35	-67.55	-13.00	54.55	196	139	Vertical



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Test Band = LTE Band 12_ TM1_ Ant13
Test Channel = Mid Channel_10MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	66.99	-48.72	25.41	-51.58	-13.00	38.58	174	173	Horizontal
2	2109.27	42.19	-47.87	27.12	-73.82	-13.00	60.82	203	297	Horizontal
3	2812.36	42.40	-46.69	28.96	-70.59	-13.00	57.59	299	204	Horizontal
4	3515.45	41.47	-46.03	29.44	-70.39	-13.00	57.39	247	282	Horizontal
5	4218.54	40.82	-45.11	30.95	-68.60	-13.00	55.60	180	357	Horizontal
6	4921.63	40.57	-45.12	32.41	-67.40	-13.00	54.40	238	221	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	57.74	-48.72	25.41	-60.83	-13.00	47.83	136	251	Vertical
2	2109.27	41.11	-47.87	27.12	-74.90	-13.00	61.90	298	32	Vertical
3	2812.36	42.57	-46.69	28.96	-70.42	-13.00	57.42	177	313	Vertical
4	3515.45	42.44	-46.03	29.44	-69.42	-13.00	56.42	146	266	Vertical
5	4218.54	40.61	-45.11	30.95	-68.81	-13.00	55.81	268	125	Vertical
6	4921.63	40.34	-45.12	32.41	-67.63	-13.00	54.63	283	345	Vertical



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Test Band = LTE Band 12_ TM1_ Ant13
Test Channel = High Channel _10MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	68.71	-48.70	25.41	-49.83	-13.00	36.83	185	172	Horizontal
2	2119.77	41.70	-47.85	27.14	-74.27	-13.00	61.27	163	248	Horizontal
3	2826.36	41.85	-46.71	29.01	-71.11	-13.00	58.11	213	203	Horizontal
4	3532.95	41.98	-46.01	29.48	-69.81	-13.00	56.81	298	341	Horizontal
5	4239.54	41.31	-45.11	30.98	-68.08	-13.00	55.08	277	3	Horizontal
6	4946.13	39.55	-45.09	32.47	-68.32	-13.00	55.32	140	94	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	62.65	-48.70	25.41	-55.89	-13.00	42.89	256	38	Vertical
2	2119.77	41.43	-47.85	27.14	-74.54	-13.00	61.54	139	146	Vertical
3	2826.36	42.65	-46.71	29.01	-70.31	-13.00	57.31	284	101	Vertical
4	3532.95	41.96	-46.01	29.48	-69.83	-13.00	56.83	172	192	Vertical
5	4239.54	41.24	-45.11	30.98	-68.15	-13.00	55.15	166	239	Vertical
6	4946.13	39.67	-45.09	32.47	-68.20	-13.00	55.20	209	70	Vertical



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Test Band = LTE Band 12_TM1_Ant31

Test Channel = Low Channel_10MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	45.47	-48.73	25.40	-73.12	-13.00	60.12	147	63	Horizontal
2	2098.77	41.12	-47.88	27.10	-74.92	-13.00	61.92	129	15	Horizontal
3	2798.36	42.08	-46.69	28.92	-70.95	-13.00	57.95	263	157	Horizontal
4	3497.95	41.64	-46.05	29.40	-70.27	-13.00	57.27	248	4	Horizontal
5	4197.54	41.28	-45.12	30.92	-68.18	-13.00	55.18	177	15	Horizontal
6	4897.13	39.44	-45.14	32.35	-68.60	-13.00	55.60	218	353	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	45.14	-48.73	25.40	-73.45	-13.00	60.45	148	206	Vertical
2	2098.77	40.97	-47.88	27.10	-75.07	-13.00	62.07	297	47	Vertical
3	2798.36	42.37	-46.69	28.92	-70.66	-13.00	57.66	146	0	Vertical
4	3497.95	41.43	-46.05	29.40	-70.48	-13.00	57.48	231	236	Vertical
5	4197.54	41.34	-45.12	30.92	-68.12	-13.00	55.12	172	283	Vertical
6	4897.13	40.26	-45.14	32.35	-67.78	-13.00	54.78	188	63	Vertical



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Test Band = LTE Band 12_ TM1_ Ant31
Test Channel = Mid Channel _10MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	44.42	-48.72	25.41	-74.15	-13.00	61.15	178	31	Horizontal
2	2109.27	41.32	-47.87	27.12	-74.69	-13.00	61.69	294	142	Horizontal
3	2812.36	42.75	-46.69	28.96	-70.24	-13.00	57.24	186	359	Horizontal
4	3515.45	42.11	-46.03	29.44	-69.75	-13.00	56.75	234	222	Horizontal
5	4218.54	41.06	-45.11	30.95	-68.36	-13.00	55.36	142	46	Horizontal
6	4921.63	39.99	-45.12	32.41	-67.98	-13.00	54.98	208	157	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	45.22	-48.72	25.41	-73.35	-13.00	60.35	159	167	Vertical
2	2109.27	40.91	-47.87	27.12	-75.10	-13.00	62.10	237	248	Vertical
3	2812.36	41.96	-46.69	28.96	-71.03	-13.00	58.03	148	6	Vertical
4	3515.45	41.65	-46.03	29.44	-70.21	-13.00	57.21	216	1	Vertical
5	4218.54	41.17	-45.11	30.95	-68.25	-13.00	55.25	288	200	Vertical
6	4921.63	40.47	-45.12	32.41	-67.50	-13.00	54.50	140	328	Vertical



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Test Band = LTE Band 12_ TM1_ Ant31
Test Channel = High Channel_10MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	45.00	-48.70	25.41	-73.54	-13.00	60.54	297	190	Horizontal
2	2119.77	41.64	-47.85	27.14	-74.33	-13.00	61.33	184	125	Horizontal
3	2826.36	42.24	-46.71	29.01	-70.72	-13.00	57.72	123	190	Horizontal
4	3532.95	41.80	-46.01	29.48	-69.99	-13.00	56.99	241	125	Horizontal
5	4239.54	40.98	-45.11	30.98	-68.41	-13.00	55.41	291	142	Horizontal
6	4946.13	39.78	-45.09	32.47	-68.09	-13.00	55.09	275	237	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	44.70	-48.70	25.41	-73.84	-13.00	60.84	211	143	Vertical
2	2119.77	41.18	-47.85	27.14	-74.79	-13.00	61.79	171	69	Vertical
3	2826.36	42.29	-46.71	29.01	-70.67	-13.00	57.67	249	254	Vertical
4	3532.95	41.64	-46.01	29.48	-70.15	-13.00	57.15	166	157	Vertical
5	4239.54	41.52	-45.11	30.98	-67.87	-13.00	54.87	248	20	Vertical
6	4946.13	40.11	-45.09	32.47	-67.76	-13.00	54.76	186	330	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	-1.50	-0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-3.20	-0.004523	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.50	0.000707	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.10	-0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-2.50	-0.003534	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.40	-0.003392	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.60	-0.003675	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-2.30	-0.003251	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-3.40	-0.004806	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.00	-0.001413	PASS

---End of Attachment---



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