

Report No.: SEWM2304000115RG04

Rev.: 01

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Appendix B.6

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.15	18.45	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.20	18.50	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.11	18.41	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.30	17.60	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.30	18.60	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.40	18.70	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.27	18.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.39	17.69	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.35	18.65	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.45	18.75	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.36	18.66	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.48	17.78	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.40	17.70	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.52	17.82	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.27	17.57	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.33	16.63	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.61	17.91	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.68	17.98	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.56	17.86	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.52	16.82	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.52	17.82	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.70	18.00	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.54	17.84	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.64	16.94	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.37	16.67	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.43	16.73	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.25	16.55	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	20.23	15.53	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.47	16.77	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.65	16.95	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.48	16.78	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.41	15.71	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.54	16.84	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.75	17.05	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.60	16.90	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.48	15.78	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.25	18.55	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.17	18.47	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.23	18.53	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.29	17.59	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.36	18.66	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.32	18.62	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.32	18.62	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.36	17.66	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.43	18.73	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.39	18.69	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.45	18.75	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.45	17.75	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.43	17.73	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.39	17.69	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.46	17.76	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.28	16.58	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.57	17.87	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.57	17.87	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.61	17.91	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.41	16.71	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.68	17.98	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.71	18.01	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.69	17.99	34.77	PASS



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Wireless Laboratory

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Band12	3MHz	16QAM	23165	15RB#0	21.51	16.81	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.45	16.75	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.42	16.72	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.45	16.75	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.27	15.57	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.56	16.86	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.53	16.83	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.58	16.88	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.40	15.70	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.63	16.93	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.64	16.94	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.63	16.93	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.47	15.77	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.22	18.52	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.41	18.71	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.29	18.59	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.35	17.65	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.33	18.63	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.46	18.76	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.32	18.62	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.38	17.68	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.36	18.66	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.55	18.85	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.43	18.73	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.44	17.74	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.44	17.74	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.61	17.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.63	17.93	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.33	16.63	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.72	18.02	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.76	18.06	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.51	17.81	34.77	PASS



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Band12	5MHz	16QAM	23095	25RB#0	21.45	16.75	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.63	17.93	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.80	18.10	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.65	17.95	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.50	16.80	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.45	16.75	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.60	16.90	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.54	16.84	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.34	15.64	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.62	16.92	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.67	16.97	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.46	16.76	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.42	15.72	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.51	16.81	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.83	17.13	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.55	16.85	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.50	15.80	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.23	18.53	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.39	18.69	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.35	18.65	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.44	17.74	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.30	18.60	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.40	18.70	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.40	18.70	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.41	17.71	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.37	18.67	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.40	18.70	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.44	18.74	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.44	17.74	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.49	17.79	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.71	18.01	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.54	17.84	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	21.44	16.74	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.62	17.92	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.62	17.92	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.66	17.96	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.45	16.75	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.74	18.04	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.56	17.86	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.73	18.03	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.46	16.76	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.42	16.72	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.57	16.87	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.58	16.88	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.44	15.74	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.50	16.80	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.64	16.94	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.54	16.84	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.45	15.75	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.54	16.84	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.58	16.88	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.65	16.95	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.47	15.77	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	5.30	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.40	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.58	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.18	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.22	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.26	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.36	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.30	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.38	13	PASS



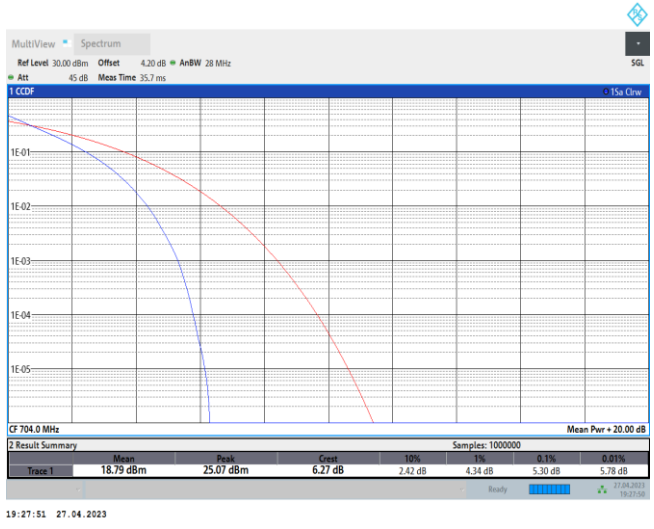
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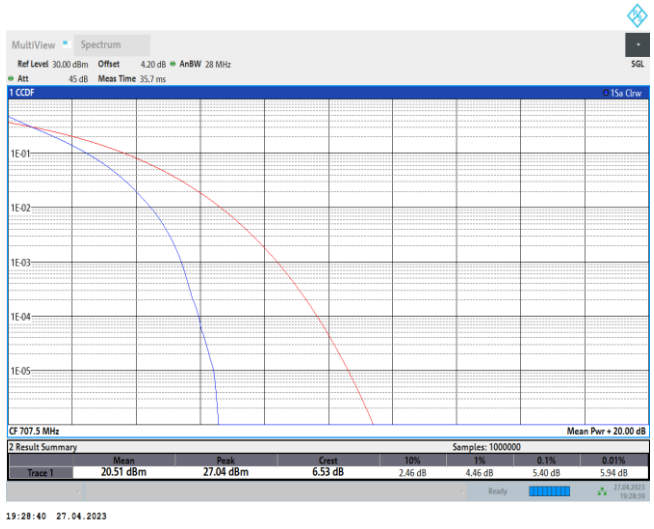
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Test Graphs

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



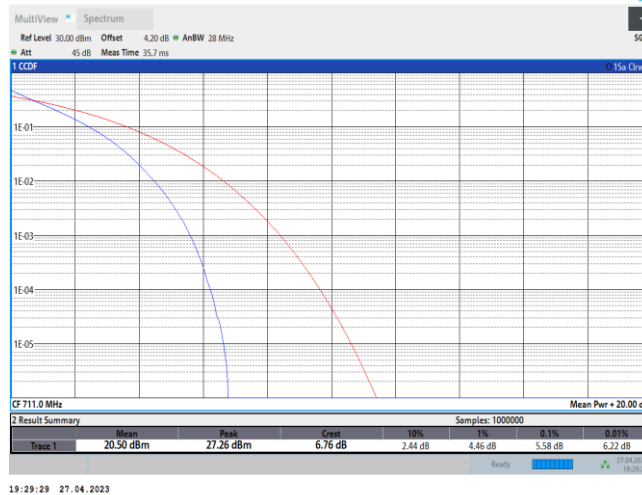
Band12-10MHz-QPSK-23095-50RB#0



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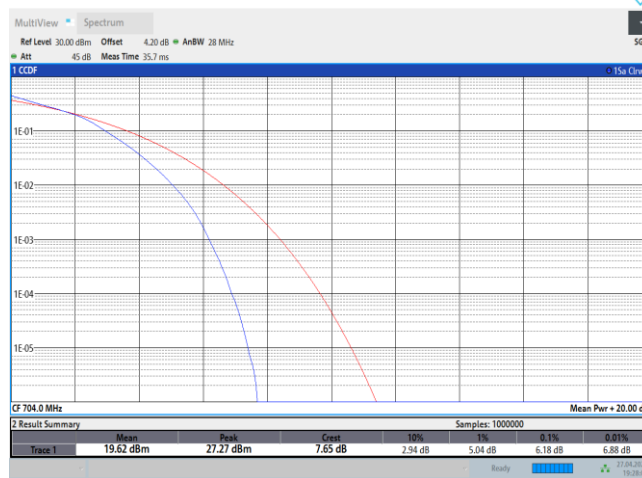
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Band12-10MHz-QPSK-23130-50RB#0



19:29:29 27.04.2023

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



19:28:07 27.04.2023

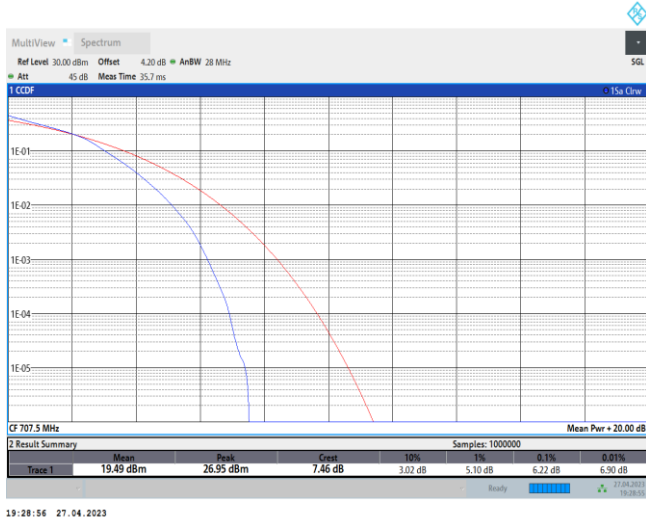


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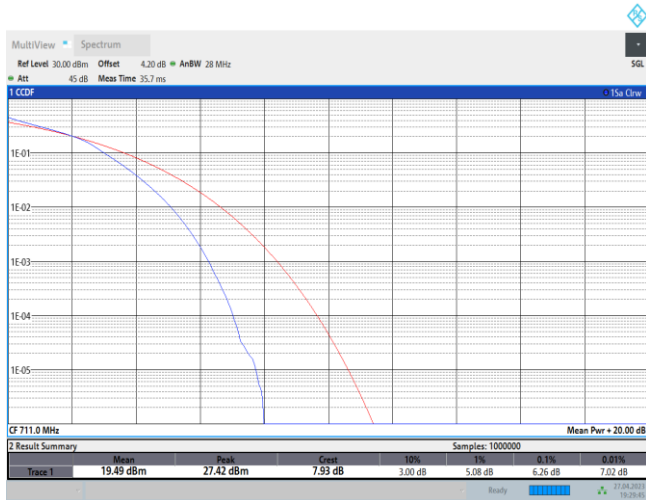
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Band12-10MHz-16QAM-23095-50RB#0



19:28:56 27.04.2023

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



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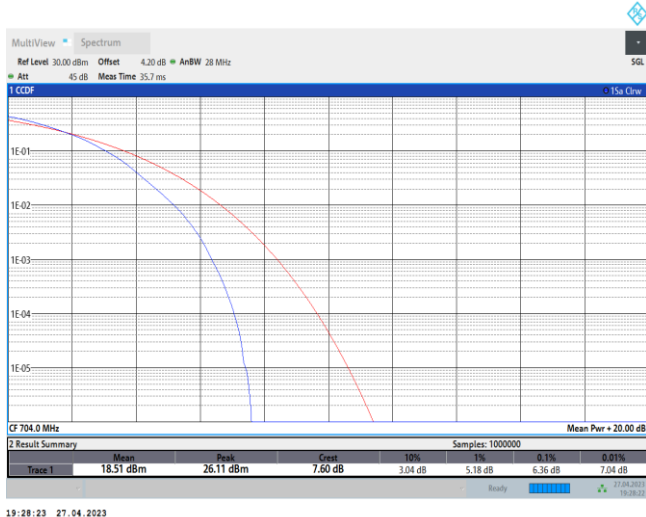


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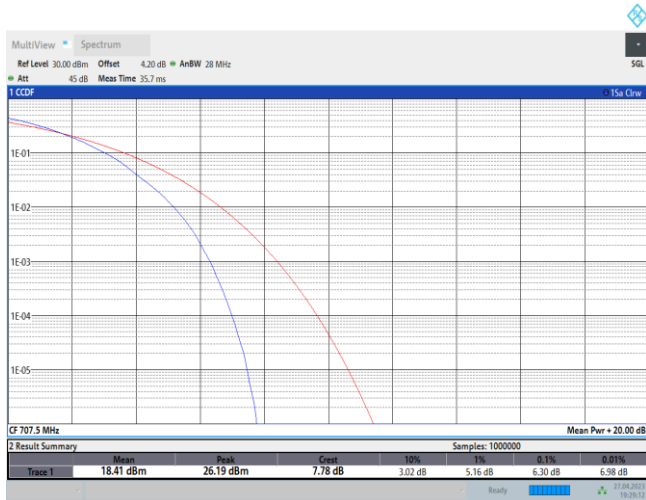
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Band12-10MHz-64QAM-23060-50RB#0



19:28:23 27.04.2023

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



19:29:12 27.04.2023

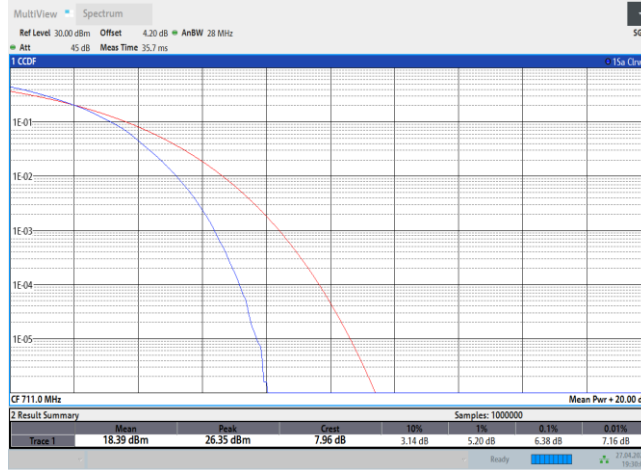


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Band12-10MHz-64QAM-23130-50RB#0



19:30:02 27.04.2023



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Modulation Characteristics

Test Result

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



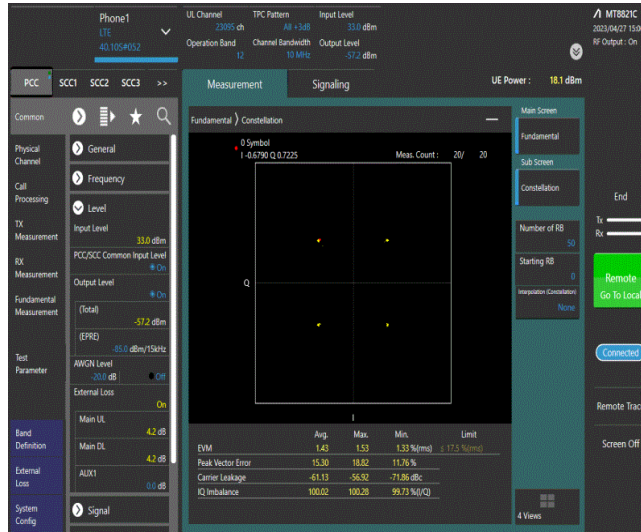
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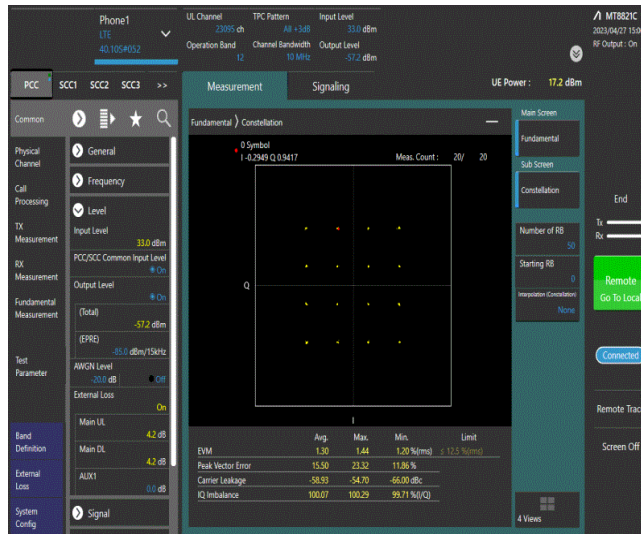
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Test Graphs

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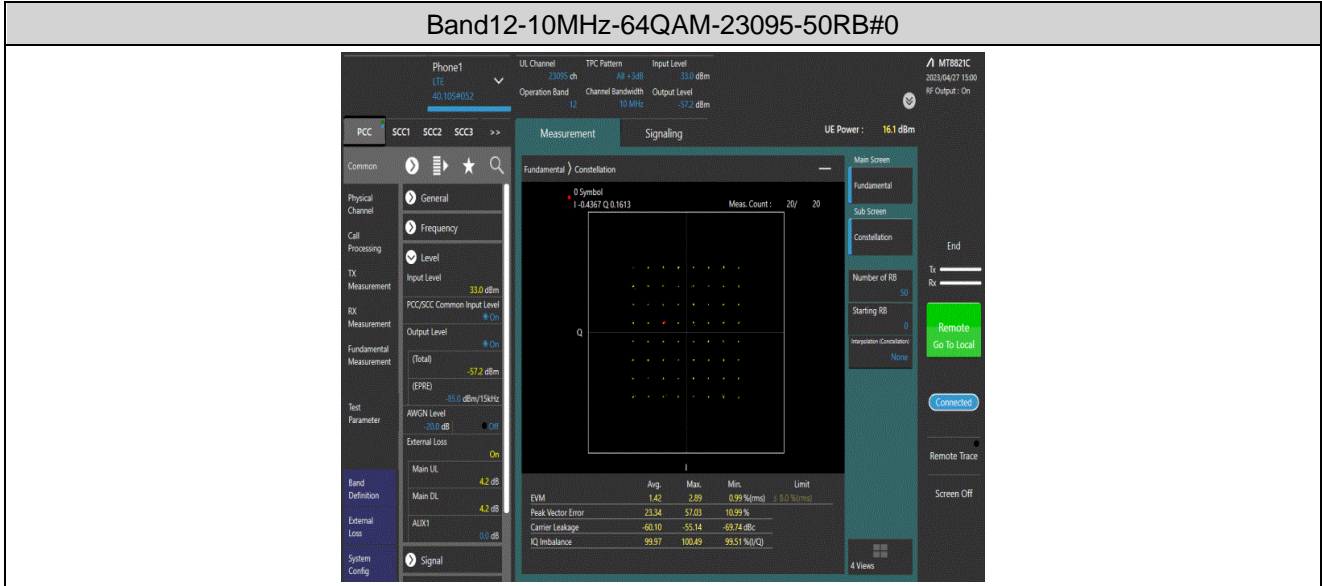


Band12-10MHz-16QAM-23095-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.084	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.091	1.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.087	1.25	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.089	1.27	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.085	1.25	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.103	1.29	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.095	1.27	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.097	1.29	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.092	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.682	2.90	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.688	2.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.689	2.92	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.681	2.87	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.690	2.88	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.682	2.89	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.681	2.89	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.686	2.87	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.690	2.89	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.462	4.90	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.487	5.05	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.480	5.01	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.472	4.91	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.466	4.95	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.471	4.89	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.479	4.99	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.485	5.00	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.475	4.97	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.912	9.74	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.921	9.74	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.928	9.58	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.924	9.60	PASS



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Report No.: SEWM2304000115RG04
Rev.: 01
Page: 17 of 53

Band12	10MHz	16QAM	23095	50RB#0	8.923	9.72	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.916	9.72	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.962	9.80	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.937	9.72	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.951	9.78	PASS

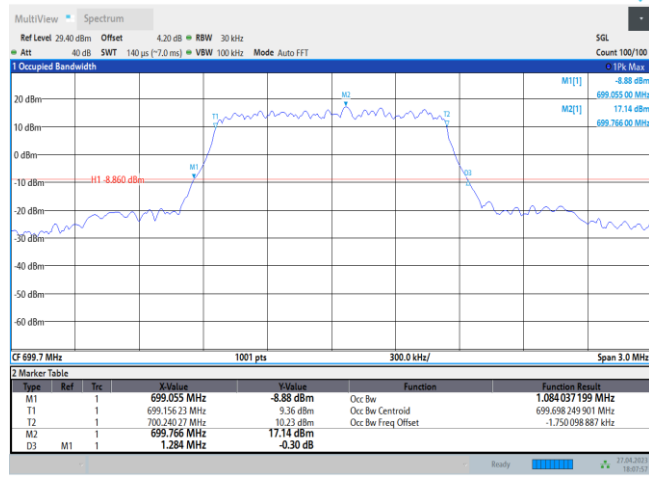


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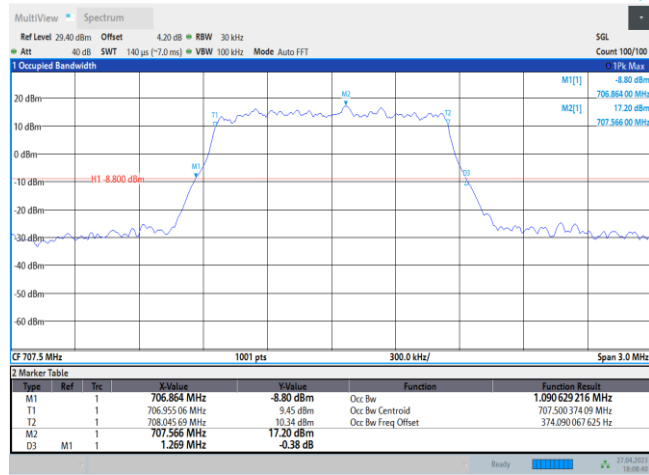
Test Graphs

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



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



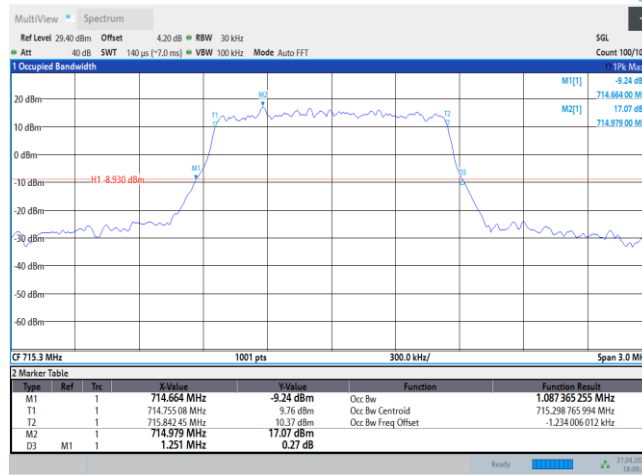
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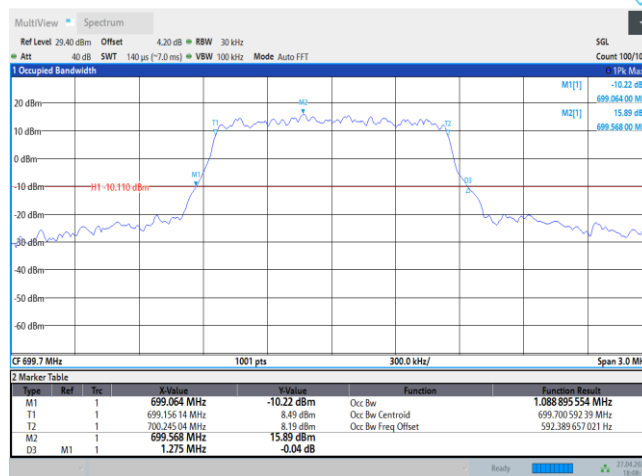
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Band12-1.4MHz-QPSK-23173-6RB#0



18:09:22 27.04.2023

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



18:08:11 27.04.2023

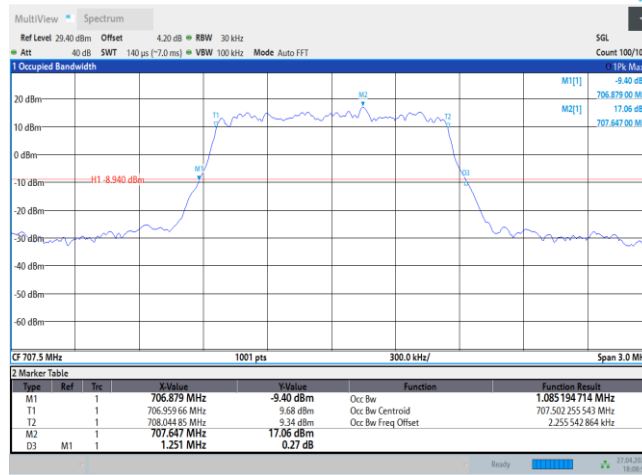


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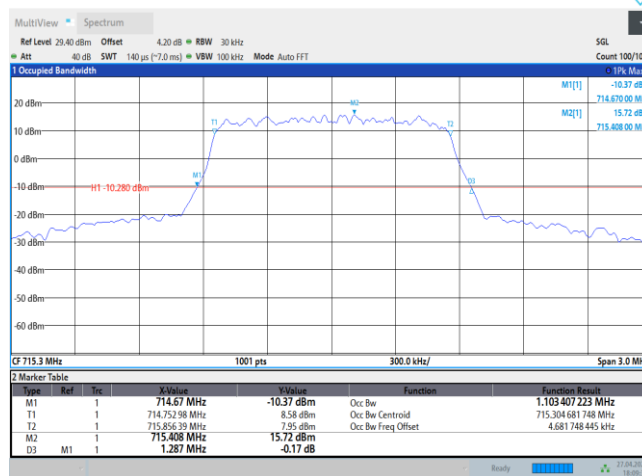
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Band12-1.4MHz-16QAM-23095-6RB#0



18:08:54 27.04.2023

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



18:09:36 27.04.2023



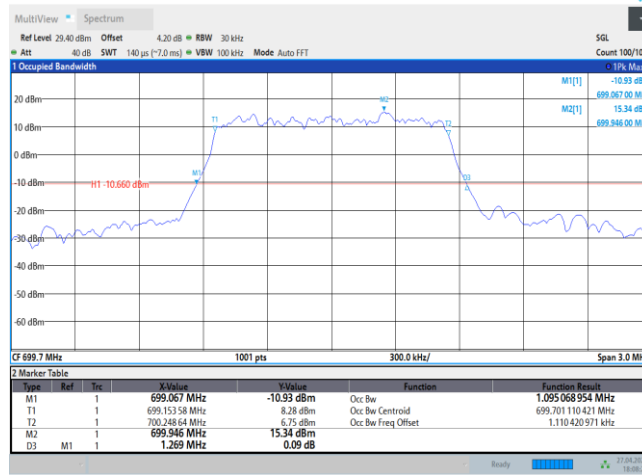
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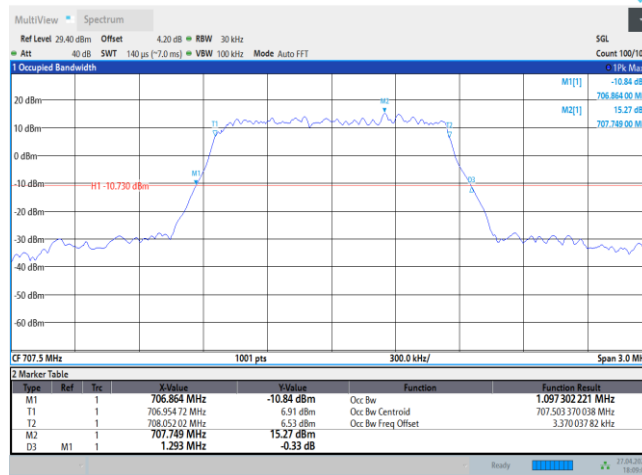
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Band12-1.4MHz-64QAM-23017-6RB#0



18:08:26 27.04.2023

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



18:09:08 27.04.2023

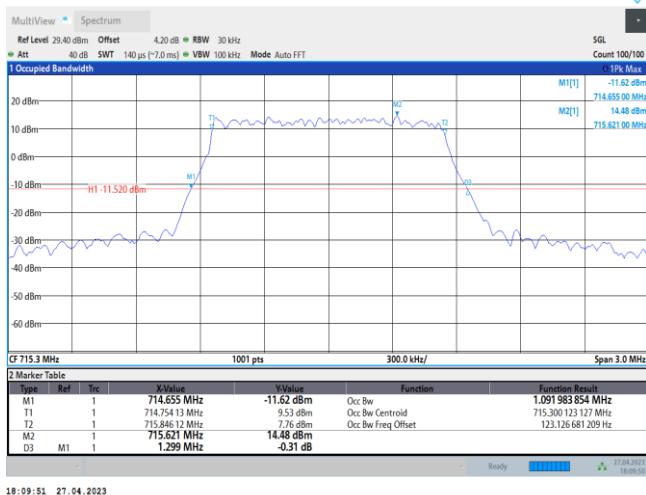


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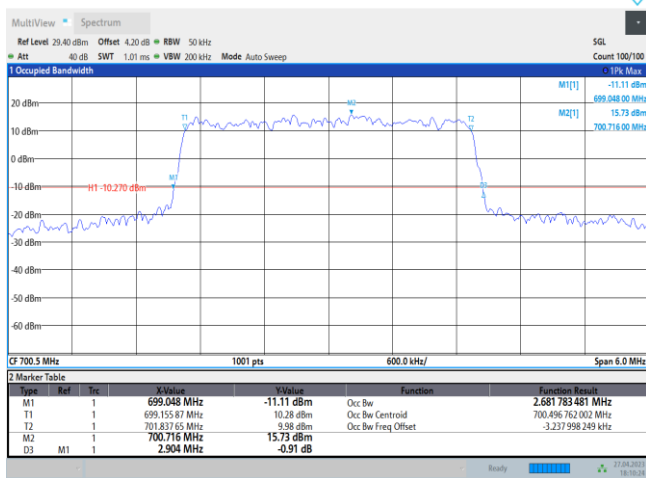
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Band12-1.4MHz-64QAM-23173-6RB#0



18:09:51 27.04.2023

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



18:10:25 27.04.2023

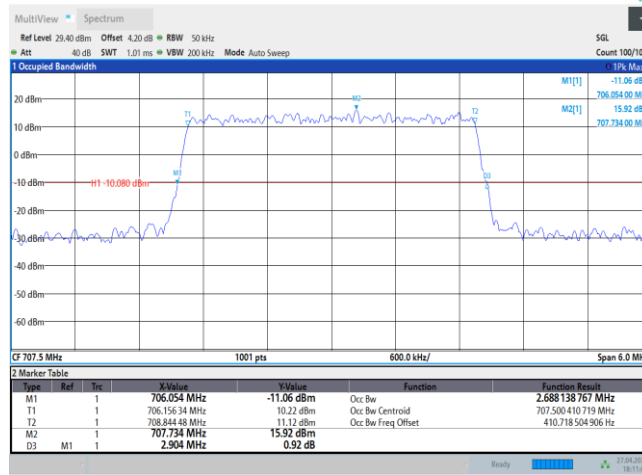


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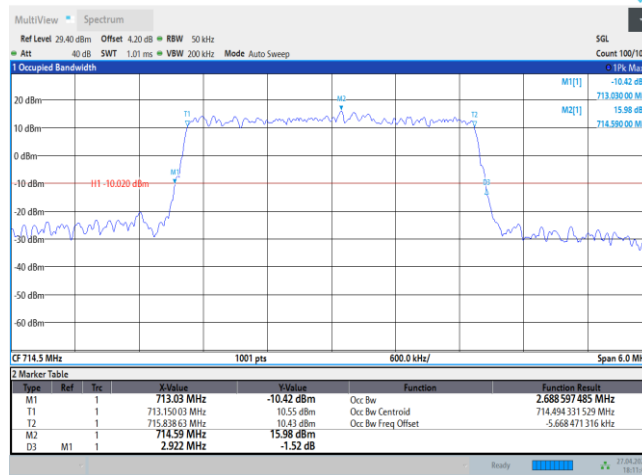
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Band12-3MHz-QPSK-23095-15RB#0



18:11:04 27.04.2023

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



18:11:44 27.04.2023



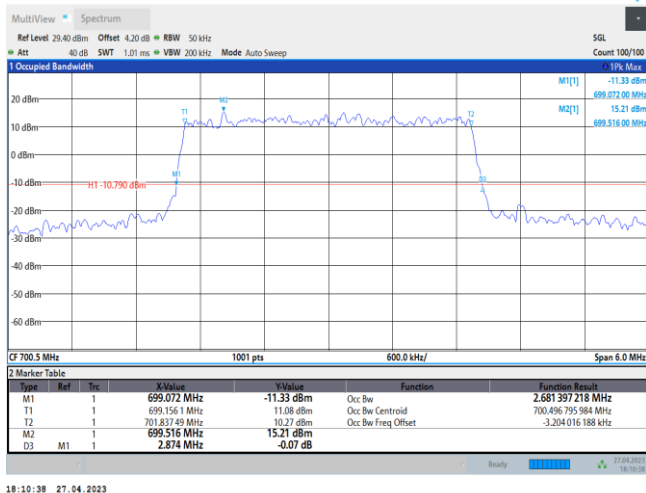
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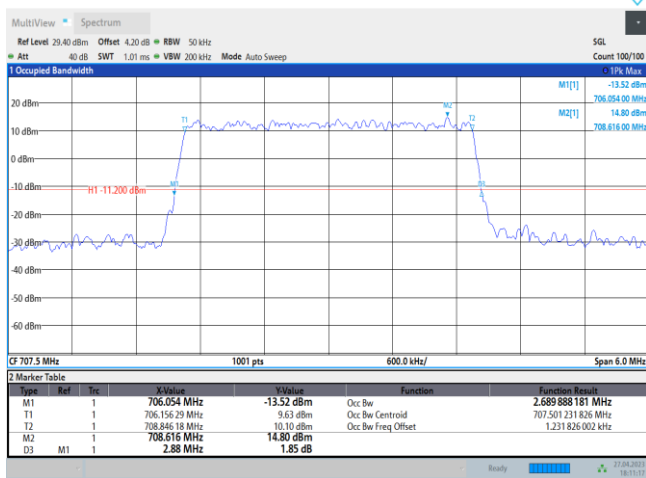
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Band12-3MHz-16QAM-23025-15RB#0



18:10:38 27.04.2023

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



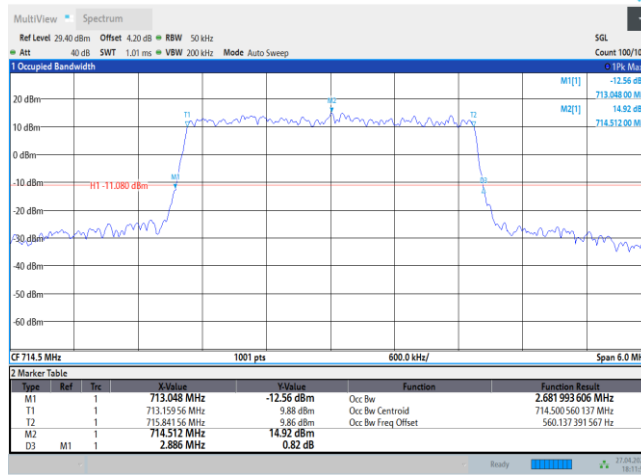
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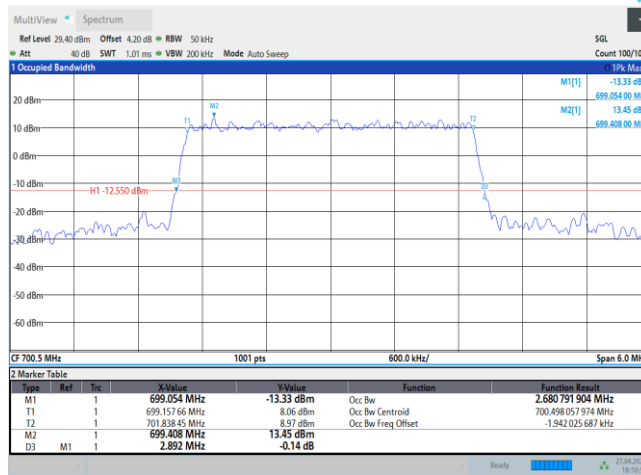
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Band12-3MHz-16QAM-23165-15RB#0



18:11:57 27.04.2023

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



18:10:51 27.04.2023

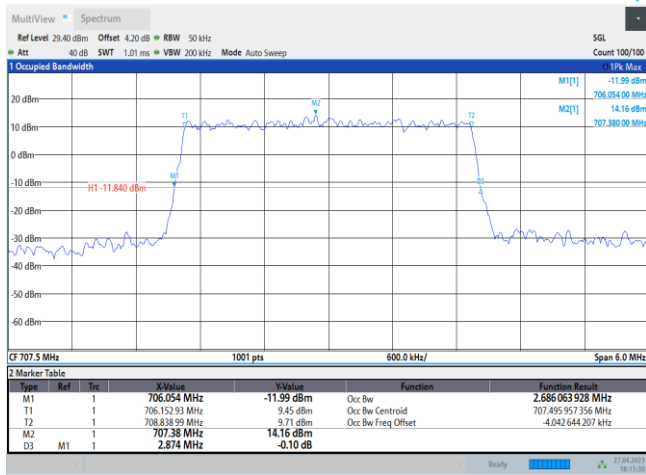


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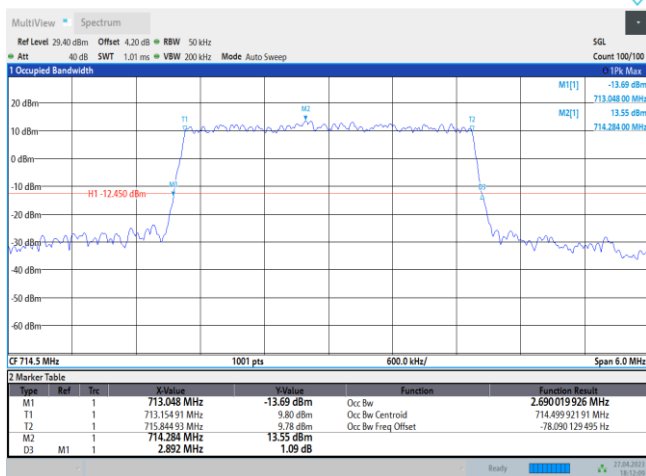
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Band12-3MHz-64QAM-23095-15RB#0



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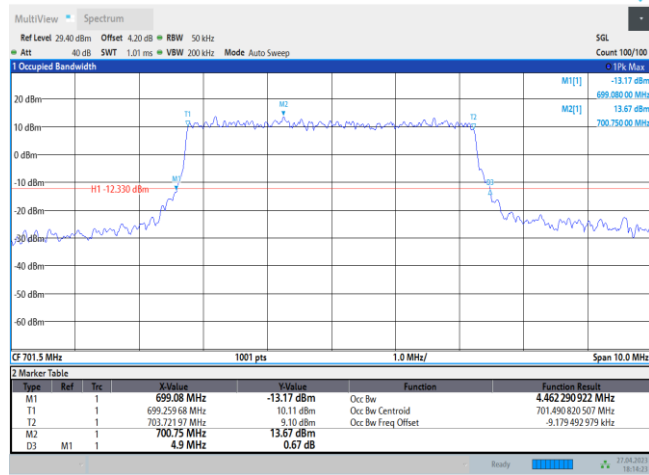
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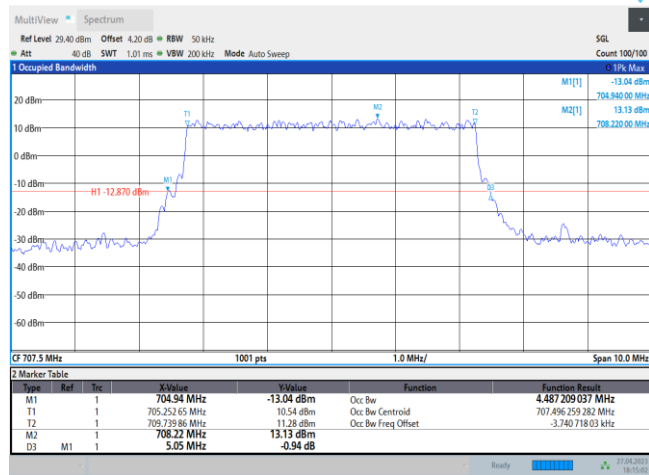
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Band12-5MHz-QPSK-23035-25RB#0



18:14:23 27.04.2023

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



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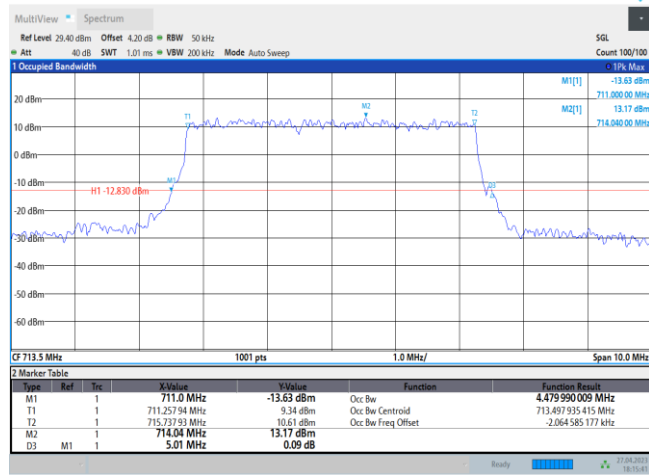


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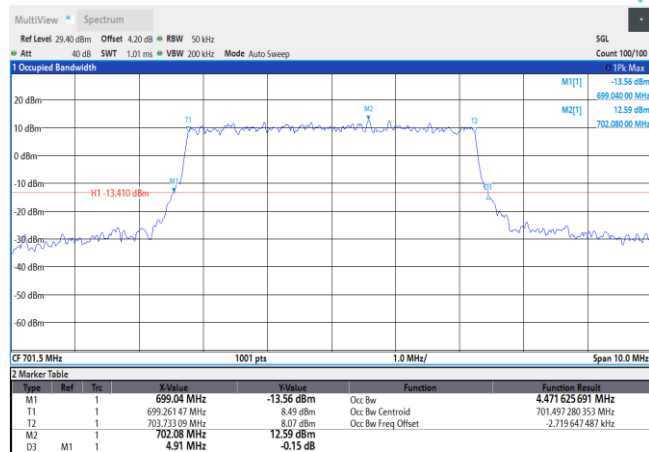
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Band12-5MHz-QPSK-23155-25RB#0



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



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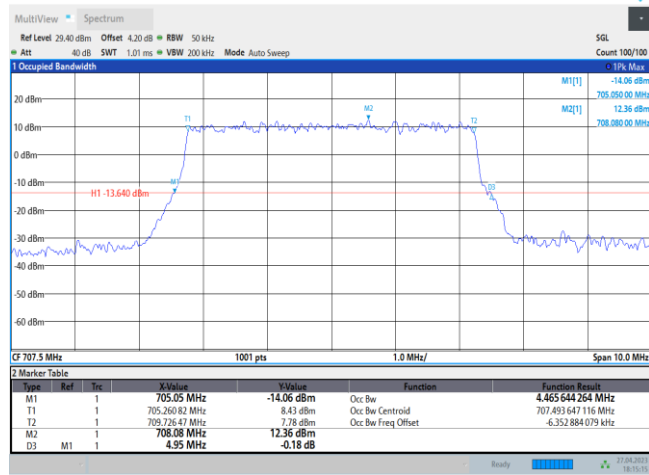
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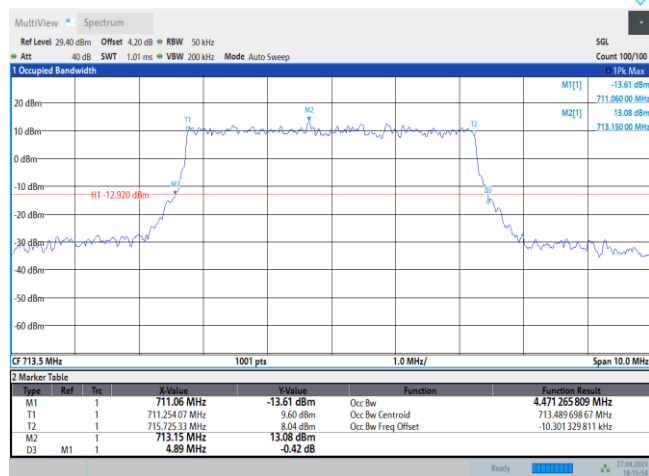
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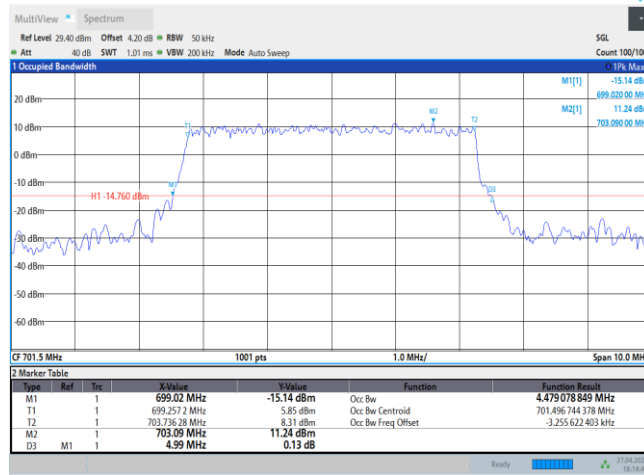
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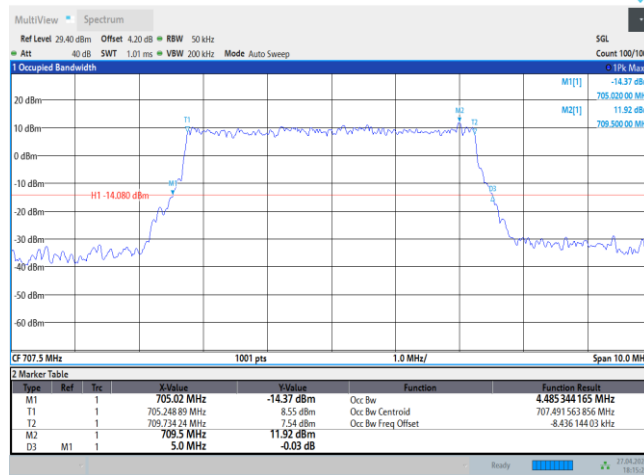
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Band12-5MHz-64QAM-23035-25RB#0



18:14:49 27.04.2023

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



18:15:28 27.04.2023



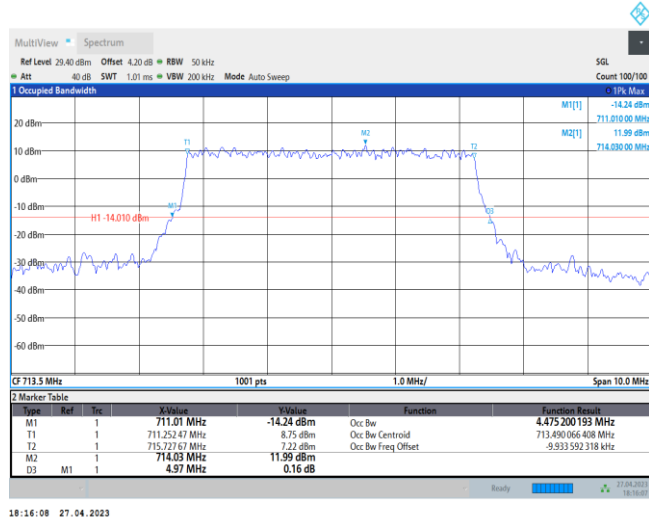
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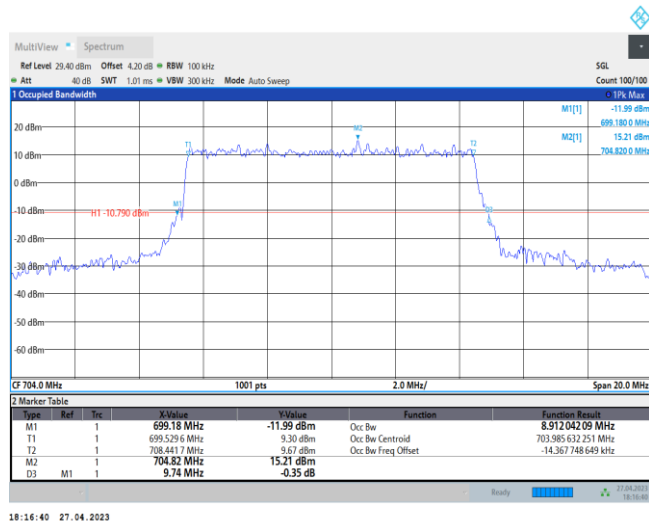
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Band12-5MHz-64QAM-23155-25RB#0



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

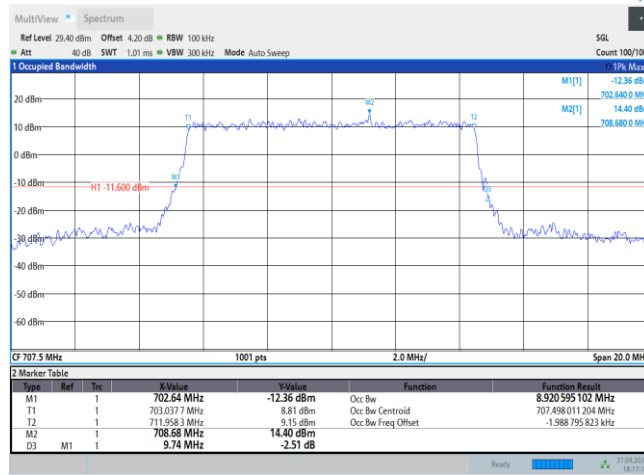


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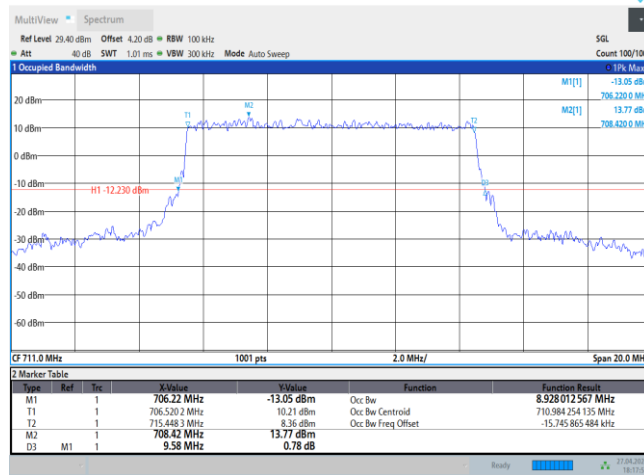
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Band12-10MHz-QPSK-23095-50RB#0



18:17:19 27.04.2023

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



18:17:59 27.04.2023



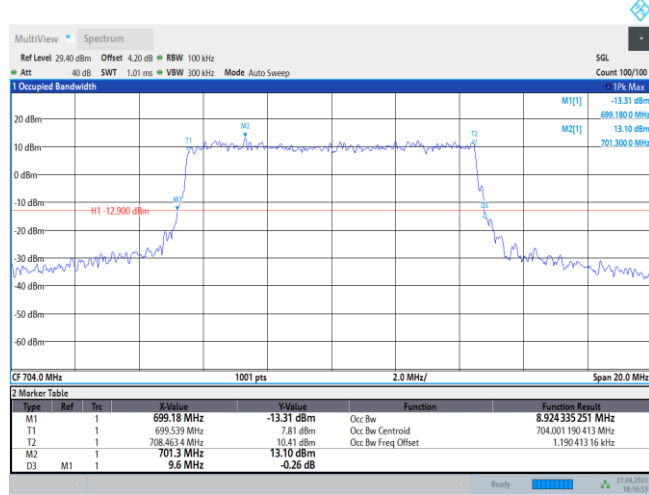
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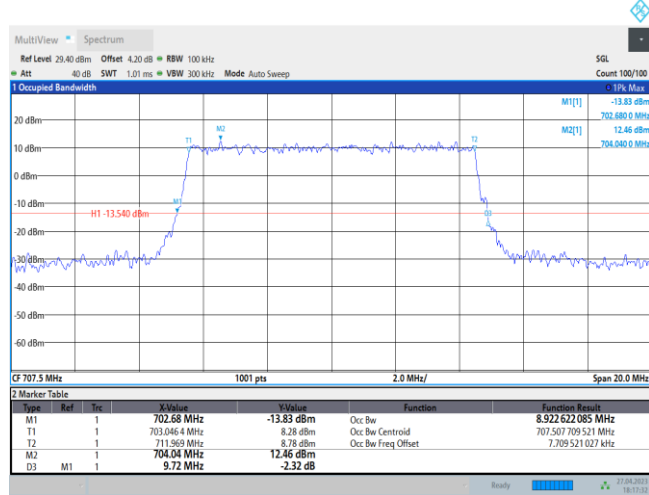
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Band12-10MHz-16QAM-23060-50RB#0



18:16:53 27.04.2023

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



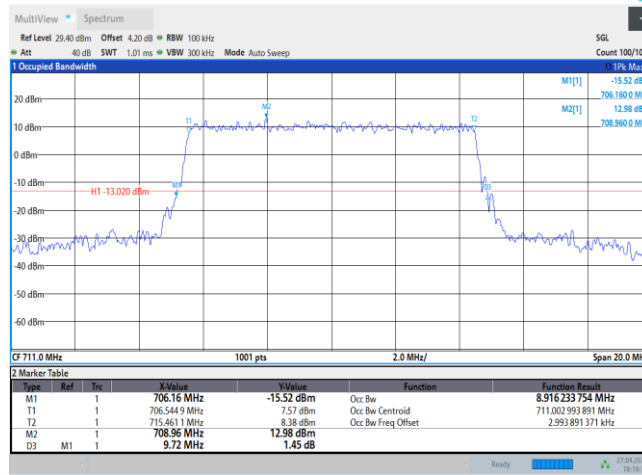
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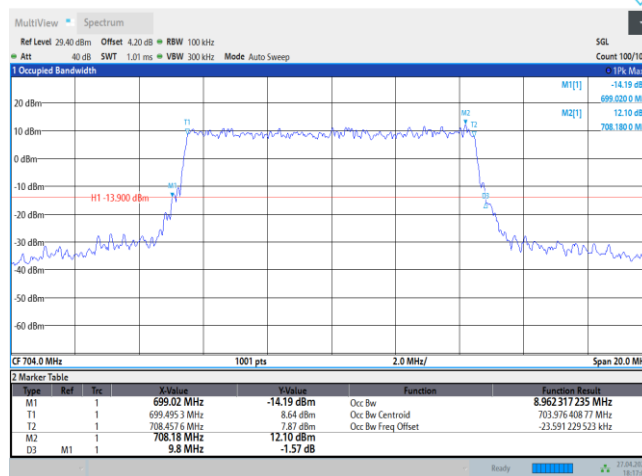
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Band12-10MHz-16QAM-23130-50RB#0



18:18:12 27.04.2023

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



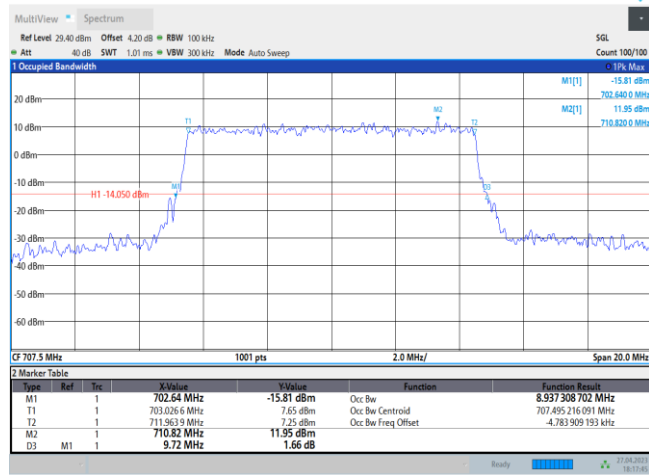
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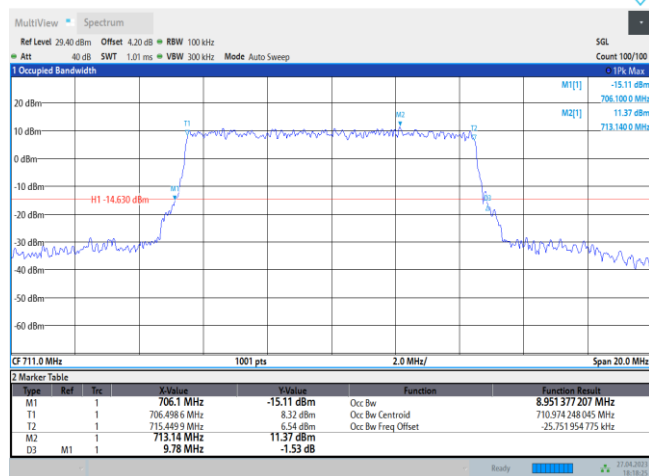
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Band12-10MHz-64QAM-23095-50RB#0



18:17:46 27.04.2023

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



18:18:25 27.04.2023



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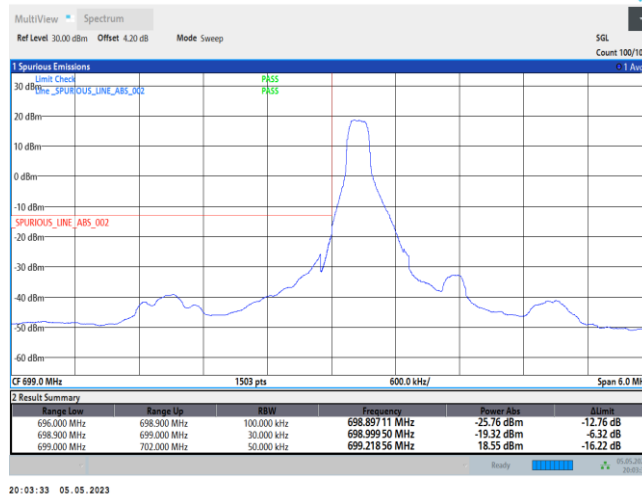
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Band Edge

Test Graphs

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



20:03:33 05.05.2023

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



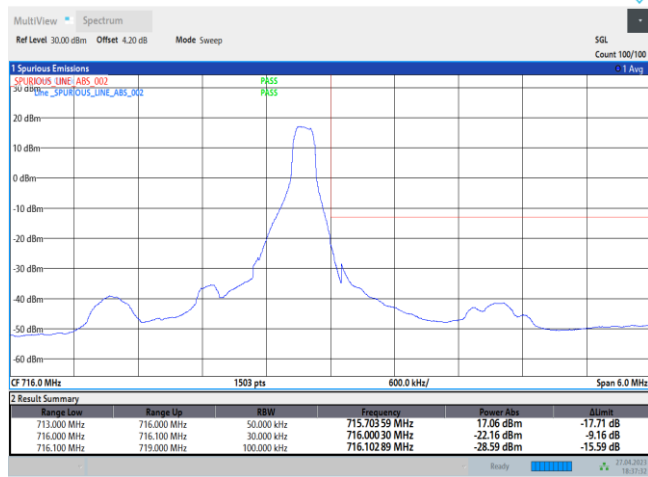
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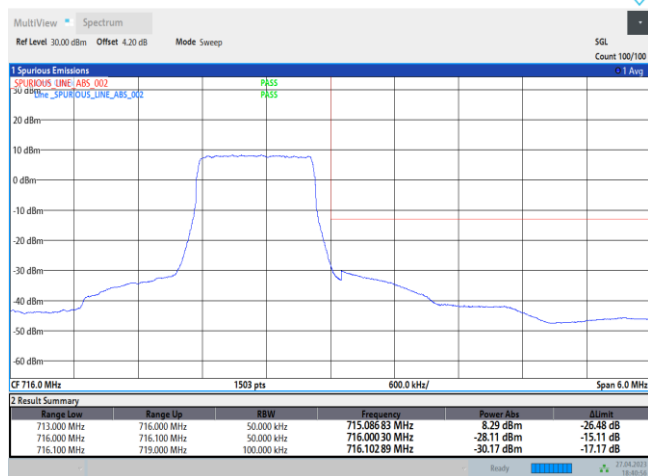
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Band12-1.4MHz-QPSK-23173-1RB#5



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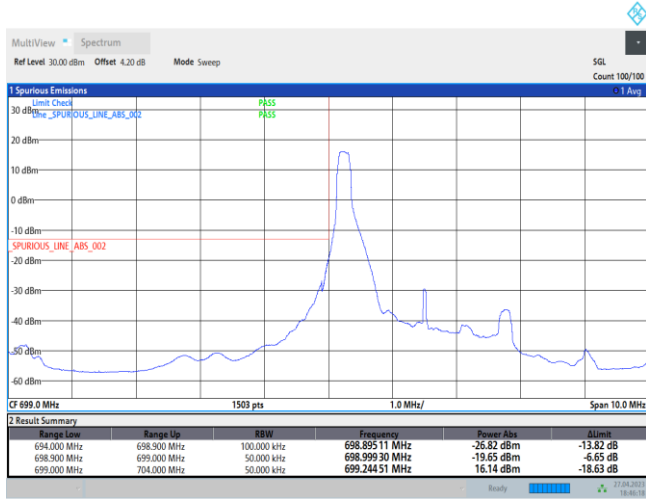


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Band12-3MHz-QPSK-23025-1RB#0



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



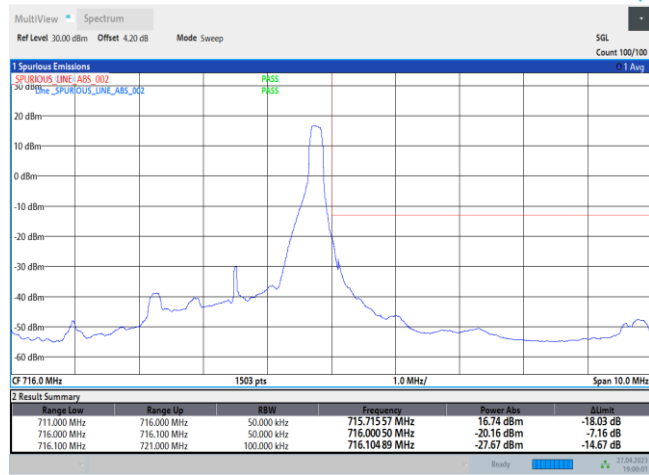
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Band12-3MHz-QPSK-23165-1RB#14



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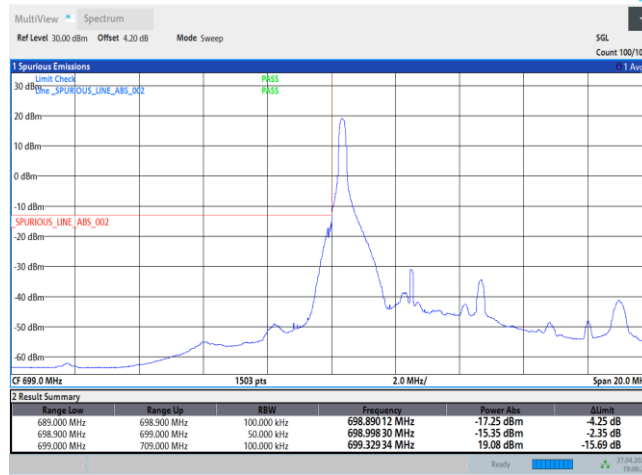


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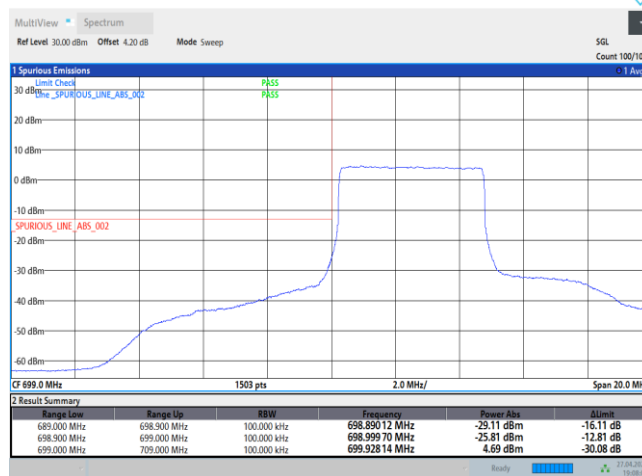
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Band12-5MHz-QPSK-23035-1RB#0



19:06:22 27.04.2023

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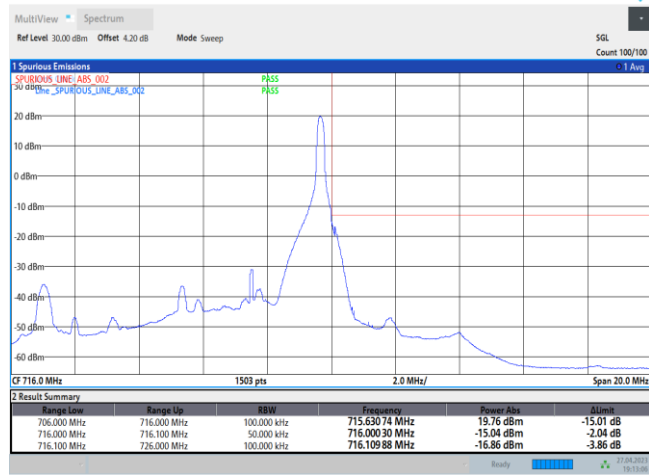
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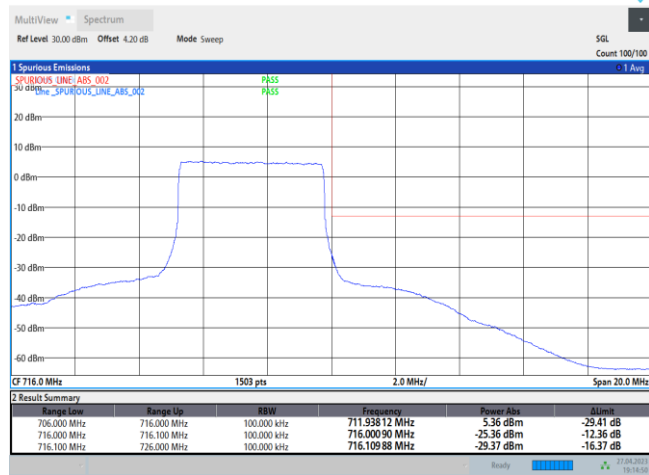
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Band12-5MHz-QPSK-23155-1RB#24



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

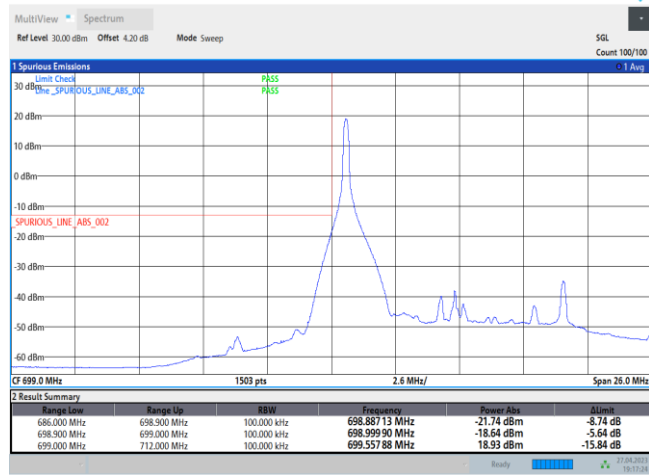


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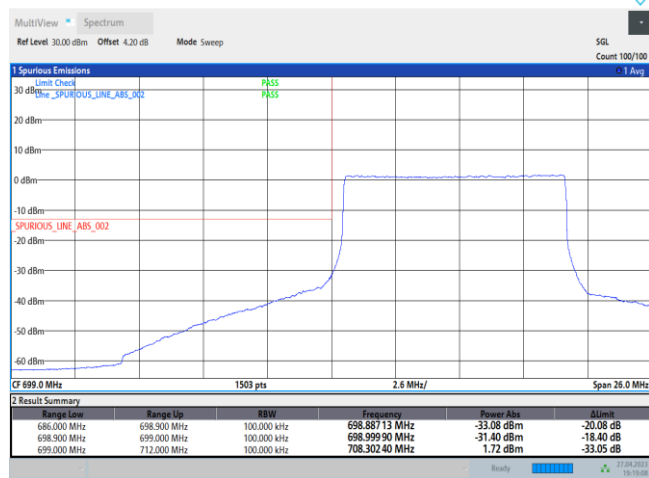
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Band12-10MHz-QPSK-23060-1RB#0



19:17:24 27.04.2023

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



19:19:08 27.04.2023

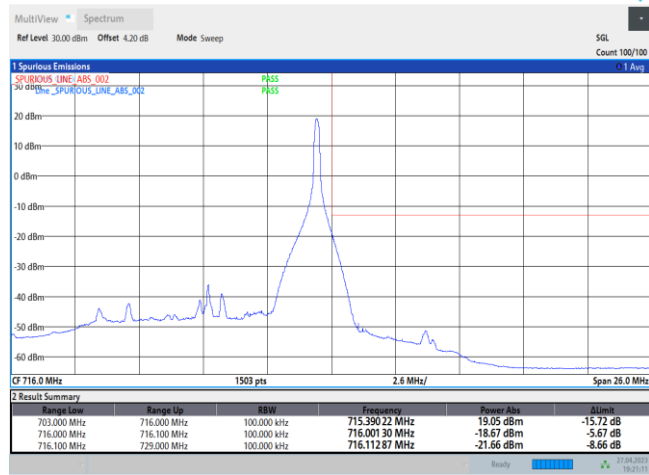


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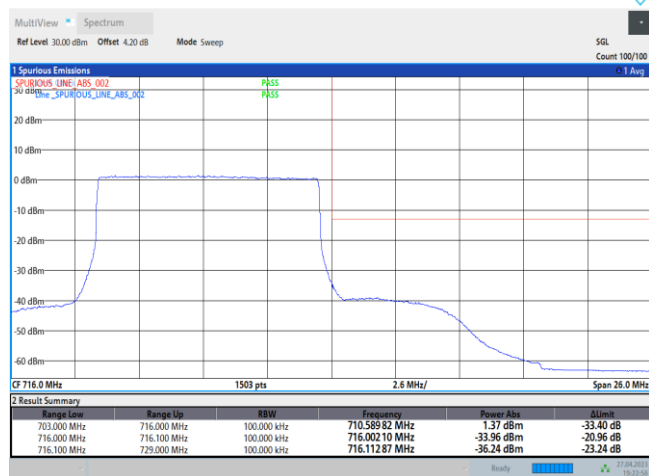
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Band12-10MHz-QPSK-23130-1RB#49



19:21:12 27.04.2023

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



19:22:56 27.04.2023



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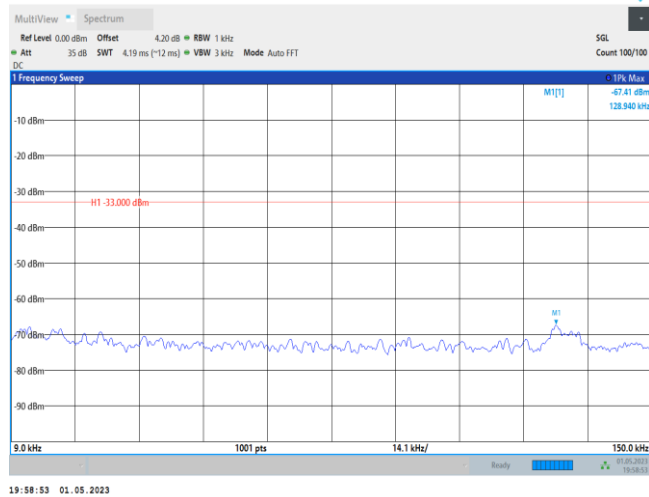
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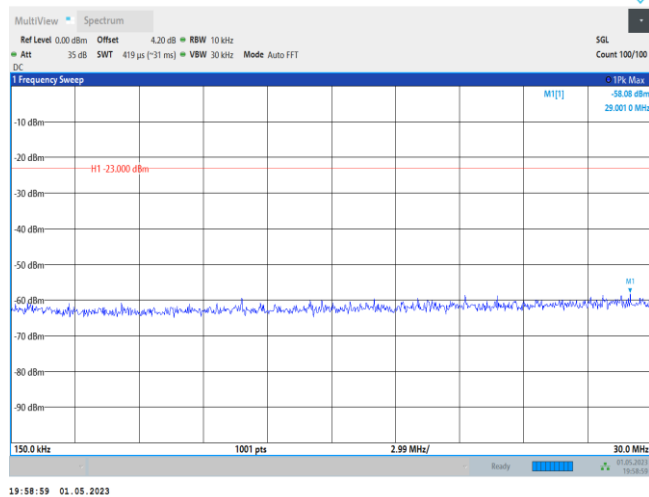
Conducted Spurious Emission

Test Graphs

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



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

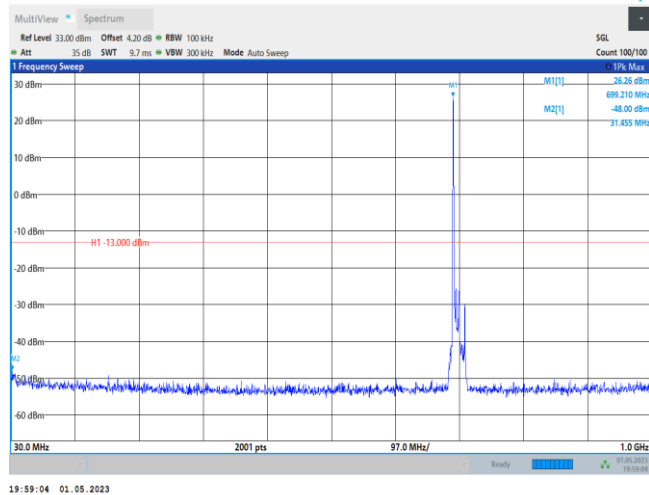


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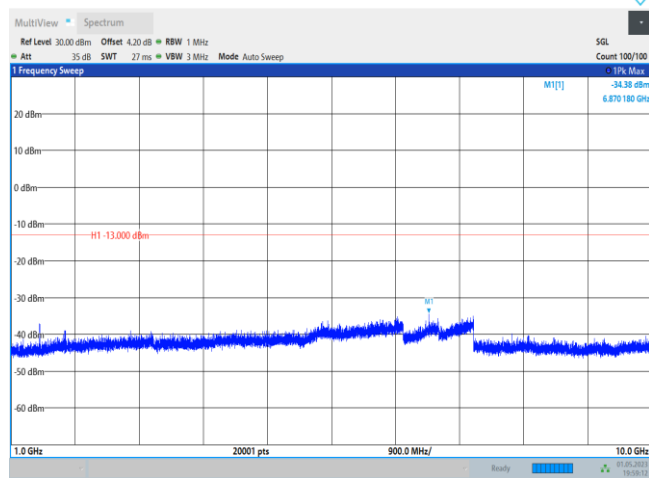
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



19:59:04 01.05.2023

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



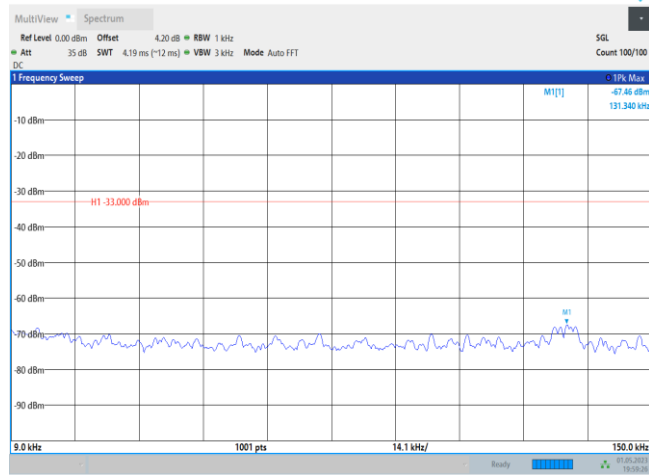
19:59:12 01.05.2023



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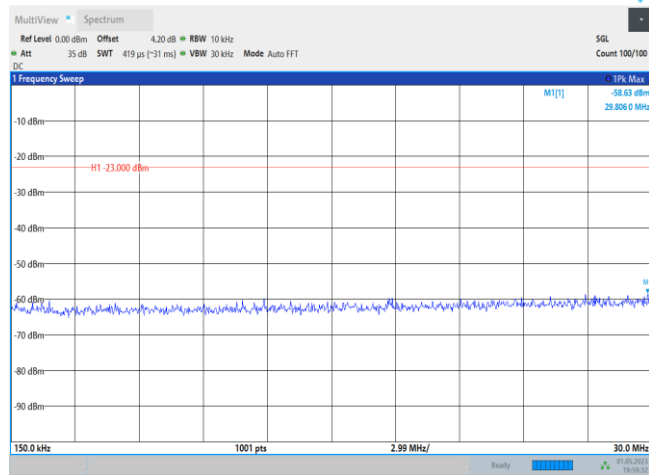
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



19:59:27 01.05.2023

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



19:59:33 01.05.2023

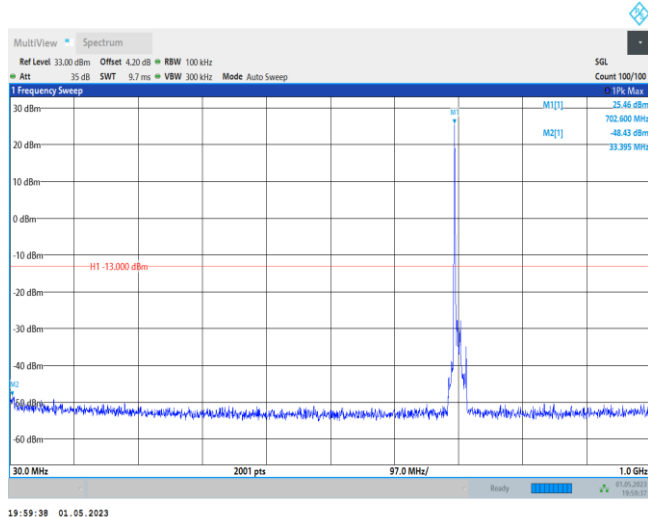


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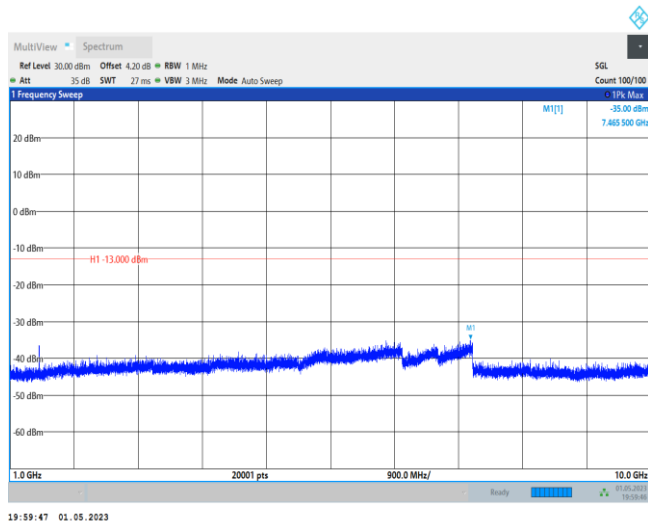
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



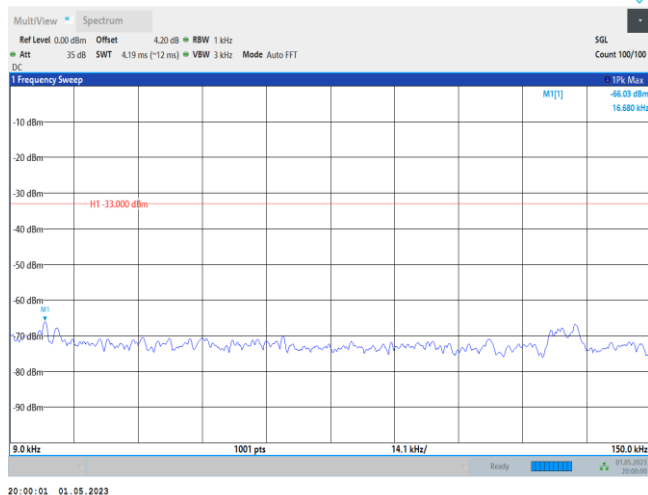
Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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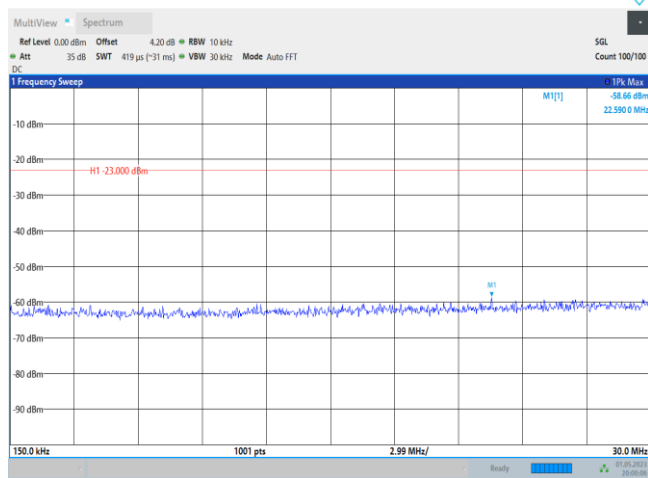
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



20:00:01 01.05.2023

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



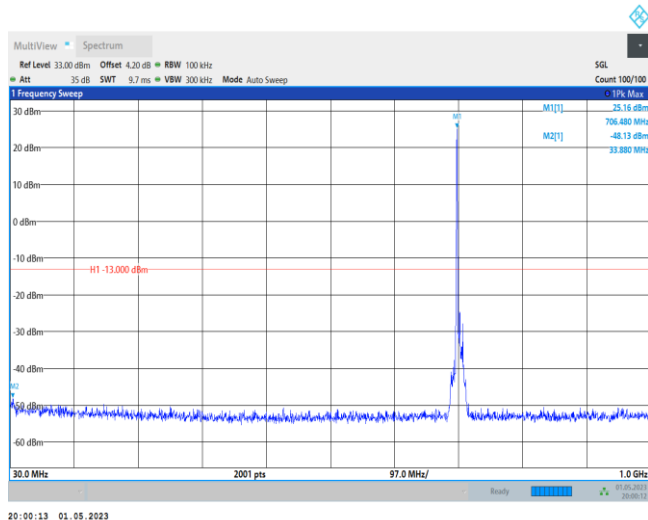
20:00:07 01.05.2023



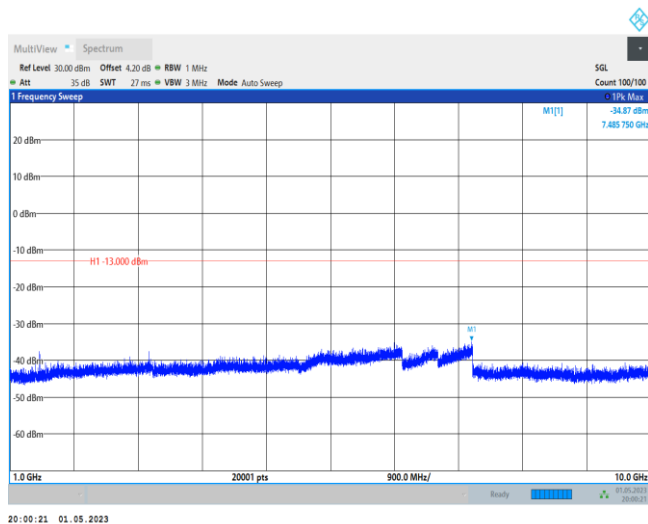
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE B12_10MHz _ 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	44.62	-48.00	25.62	-73.02	-13.00	60.02	122	83	Horizontal
2	2098.7700	43.83	-47.71	26.99	-72.16	-13.00	59.16	163	9	Horizontal
3	2798.3600	43.43	-46.92	28.48	-70.27	-13.00	57.27	168	135	Horizontal
4	3497.9500	43.07	-46.54	29.52	-69.21	-13.00	56.21	171	1	Horizontal
5	4197.5400	40.71	-45.96	31.10	-69.41	-13.00	56.41	124	320	Horizontal
6	4897.1300	42.01	-45.58	32.59	-66.24	-13.00	53.24	211	320	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	44.83	-48.00	25.62	-72.81	-13.00	59.81	155	305	Vertical
2	2098.7700	43.80	-47.71	26.99	-72.19	-13.00	59.19	187	350	Vertical
3	2798.3600	43.47	-46.92	28.48	-70.23	-13.00	57.23	198	238	Vertical
4	3497.9500	42.92	-46.54	29.52	-69.36	-13.00	56.36	214	224	Vertical
5	4197.5400	40.58	-45.96	31.10	-69.54	-13.00	56.54	188	4	Vertical
6	4897.1300	42.11	-45.58	32.59	-66.14	-13.00	53.14	165	360	Vertical



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Test Band = LTE B12_10MHz _ 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	46.53	-48.02	25.61	-71.14	-13.00	58.14	109	110	Horizontal
2	2109.2700	43.40	-47.71	27.02	-72.54	-13.00	59.54	218	348	Horizontal
3	2812.3600	43.69	-46.88	28.53	-69.91	-13.00	56.91	177	110	Horizontal
4	3515.4500	43.44	-46.51	29.53	-68.79	-13.00	55.79	223	281	Horizontal
5	4218.5400	41.56	-45.93	31.14	-68.49	-13.00	55.49	154	84	Horizontal
6	4921.6300	42.12	-45.63	32.66	-66.11	-13.00	53.11	156	96	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	45.20	-48.02	25.61	-72.47	-13.00	59.47	109	26	Vertical
2	2109.2700	43.34	-47.71	27.02	-72.60	-13.00	59.60	187	171	Vertical
3	2812.3600	43.27	-46.88	28.53	-70.33	-13.00	57.33	213	290	Vertical
4	3515.4500	43.02	-46.51	29.53	-69.21	-13.00	56.21	207	359	Vertical
5	4218.5400	41.37	-45.93	31.14	-68.68	-13.00	55.68	198	264	Vertical
6	4921.6300	41.98	-45.63	32.66	-66.25	-13.00	53.25	144	360	Vertical



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Test Band = LTE B12_10MHz _ 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	47.89	-48.04	25.60	-69.81	-13.00	56.81	102	135	Horizontal
2	2119.7700	43.23	-47.70	27.06	-72.67	-13.00	59.67	133	83	Horizontal
3	2826.3600	44.18	-46.83	28.60	-69.31	-13.00	56.31	165	357	Horizontal
4	3532.9500	42.69	-46.47	29.55	-69.49	-13.00	56.49	182	307	Horizontal
5	4239.5400	41.73	-45.89	31.18	-68.24	-13.00	55.24	214	30	Horizontal
6	4946.1300	41.96	-45.69	32.73	-66.26	-13.00	53.26	162	71	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	45.39	-48.04	25.60	-72.31	-13.00	59.31	171	66	Vertical
2	2119.7700	43.77	-47.70	27.06	-72.13	-13.00	59.13	198	239	Vertical
3	2826.3600	43.25	-46.83	28.60	-70.24	-13.00	57.24	165	133	Vertical
4	3532.9500	42.77	-46.47	29.55	-69.41	-13.00	56.41	121	159	Vertical
5	4239.5400	41.63	-45.89	31.18	-68.34	-13.00	55.34	129	118	Vertical
6	4946.1300	42.15	-45.69	32.73	-66.07	-13.00	53.07	287	360	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	-5.10	-0.007208	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-7.90	-0.011166	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-3.70	-0.005230	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-7.60	-0.010742	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-6.90	-0.009753	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-7.40	-0.010459	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-5.80	-0.008198	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-8.80	-0.012438	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.80	-0.003958	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-6.40	-0.009046	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-9.60	-0.013569	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-10.00	-0.014134	PASS

---End of Attachment---



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