

Report No.: SEWM2305000178RG01

Rev.: 01

Page: 1 of 53

Appendix B.5

LTE Band 5



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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
Band5	1.4MHz	QPSK	20407	1RB#0	23.2	22.77	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.89	22.46	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.74	22.31	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.9	21.47	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.92	22.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.05	22.62	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.92	22.49	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.06	21.63	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.85	22.42	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23	22.57	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.85	22.42	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.04	21.61	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.9	21.47	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.14	21.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.92	21.49	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.96	20.53	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.15	21.72	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.35	21.92	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.26	21.83	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.14	20.71	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.12	21.69	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.25	21.82	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.13	21.7	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.11	20.68	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	20.88	20.45	38.45	PASS



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 3 of 53

Band5	1.4MHz	64QAM	20407	1RB#2	21	20.57	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	20.93	20.5	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	19.91	19.48	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.13	20.7	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.25	20.82	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.19	20.76	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.01	19.58	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.09	20.66	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.18	20.75	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.06	20.63	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.05	19.62	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.33	22.9	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.89	22.46	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.87	22.44	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.97	21.54	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.03	22.6	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.06	22.63	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.03	22.6	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.1	21.67	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23	22.57	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.98	22.55	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.95	22.52	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.09	21.66	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.18	21.75	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.03	21.6	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.14	21.71	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.95	20.52	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.37	21.94	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.39	21.96	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.2	21.77	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.15	20.72	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.21	21.78	38.45	PASS



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 4 of 53

Band5	3MHz	16QAM	20635	1RB#8	22.11	21.68	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.23	21.8	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.1	20.67	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21	20.57	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.12	20.69	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.07	20.64	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	19.93	19.5	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.26	20.83	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.28	20.85	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.21	20.78	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.11	19.68	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.27	20.84	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.11	20.68	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.19	20.76	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.11	19.68	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.17	22.74	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.37	22.94	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.76	22.33	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.01	21.58	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.88	22.45	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.16	22.73	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.83	22.4	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.04	21.61	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.81	22.38	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.1	22.67	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.79	22.36	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22	21.57	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.42	21.99	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.37	21.94	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.04	21.61	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.03	20.6	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.18	21.75	38.45	PASS



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 5 of 53

Band5	5MHz	16QAM	20525	1RB#12	22.43	22	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.15	21.72	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.07	20.64	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	22	21.57	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.25	21.82	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.99	21.56	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.98	20.55	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.4	20.97	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.24	20.81	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.16	20.73	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.27	19.84	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.06	20.63	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.3	20.87	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.08	20.65	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.05	19.62	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.06	20.63	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.3	20.87	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21	20.57	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	19.95	19.52	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.22	22.79	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.46	23.03	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.21	22.78	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.2	21.77	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.06	22.63	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.15	22.72	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.92	22.49	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.13	21.7	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.91	22.48	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.05	22.62	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.86	22.43	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.05	21.62	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.41	21.98	38.45	PASS



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 6 of 53

Band5	10MHz	16QAM	20450	1RB#24	22.61	22.18	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.4	21.97	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.39	20.96	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.21	21.78	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.47	22.04	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.24	21.81	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.16	20.73	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.18	21.75	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.28	21.85	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.09	21.66	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.05	20.62	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.39	20.96	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.68	21.25	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.39	20.96	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.46	20.03	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.35	20.92	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.36	20.93	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.16	20.73	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.19	19.76	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.16	20.73	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	21.29	20.86	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.1	20.67	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.02	19.59	38.45	PASS



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 7 of 53

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.80	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.88	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.48	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.58	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.66	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.32	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	5.98	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.18	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	5.92	13	PASS



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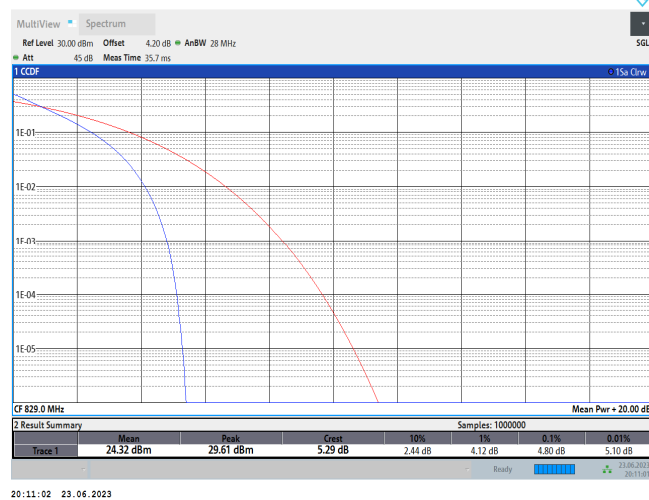
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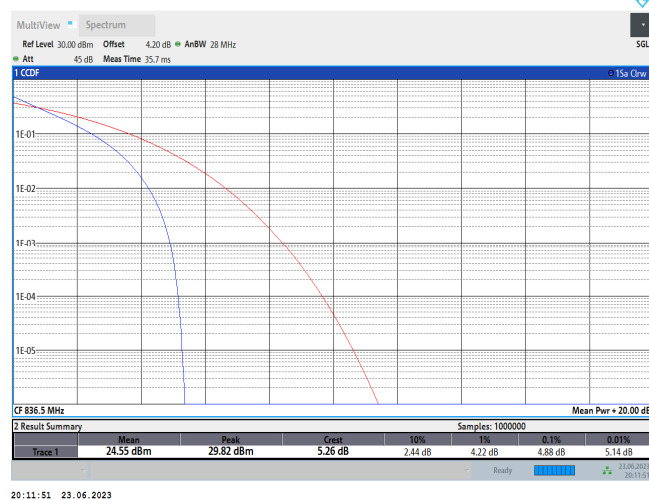
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Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



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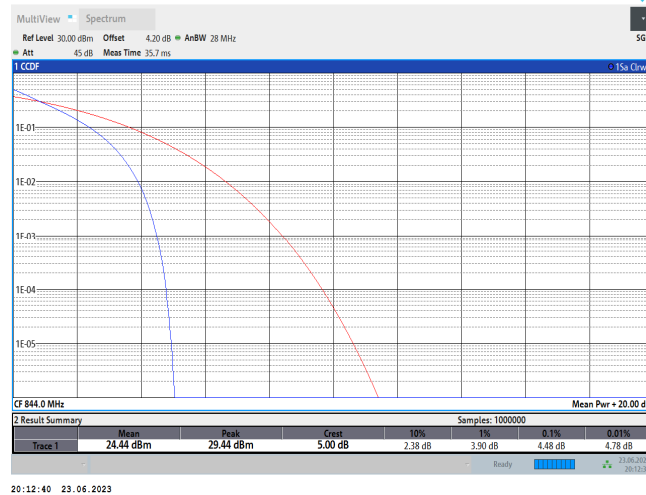
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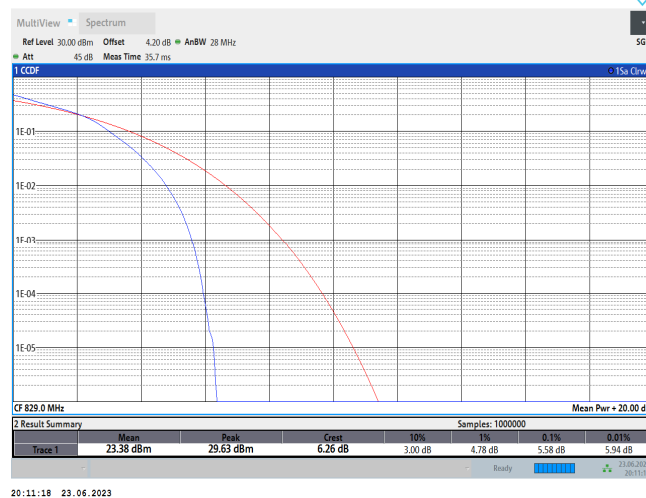
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Band5-10MHz-QPSK-20600-50RB#0



Band5-10MHz-16QAM-20450-50RB#0



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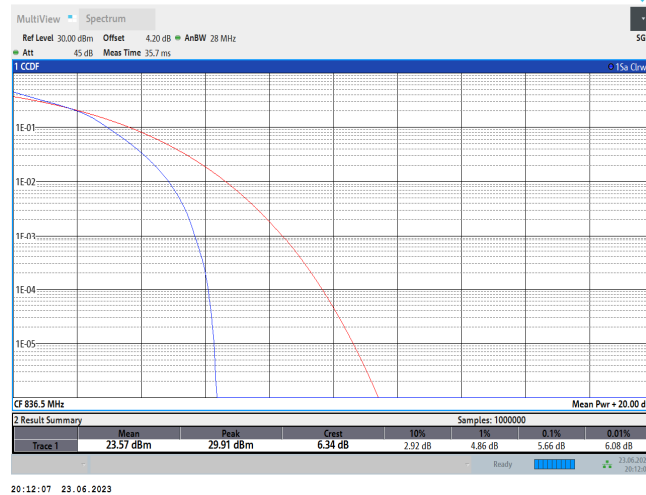
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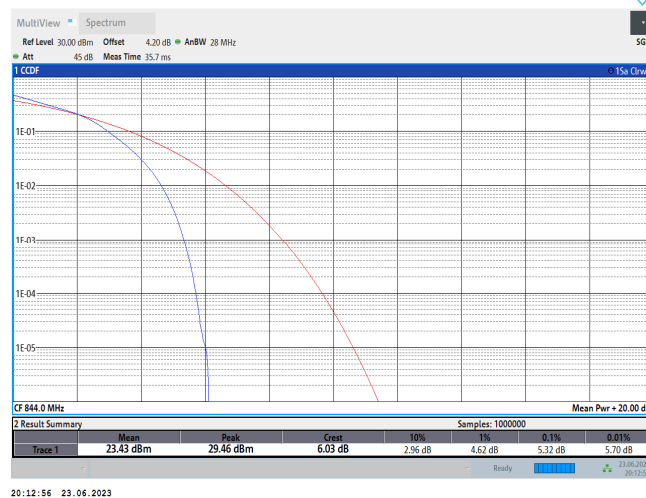
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Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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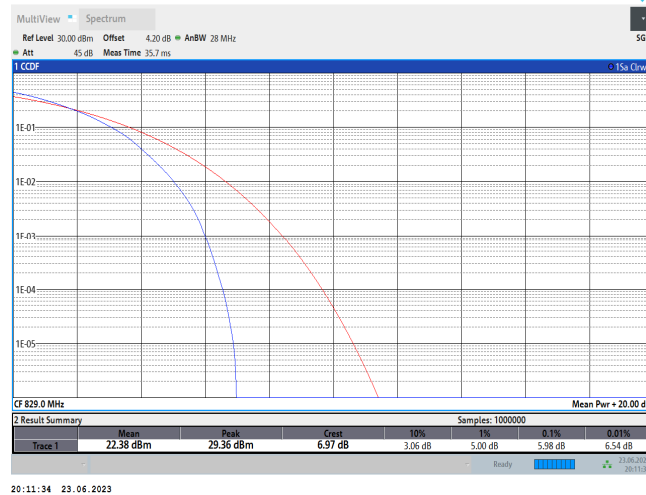
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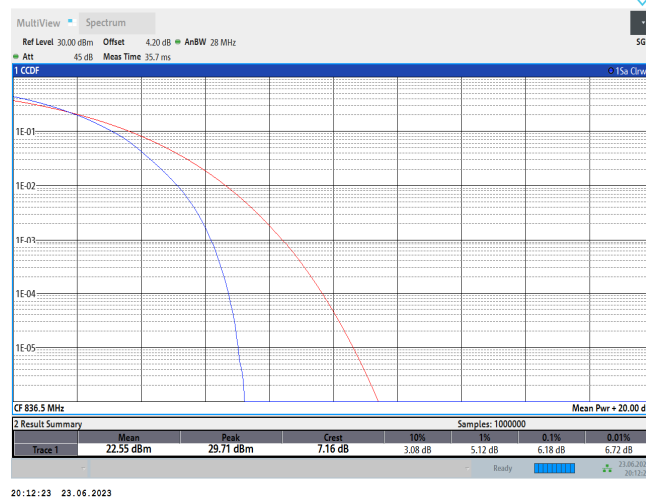
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Band5-10MHz-64QAM-20450-50RB#0



Band5-10MHz-64QAM-20525-50RB#0



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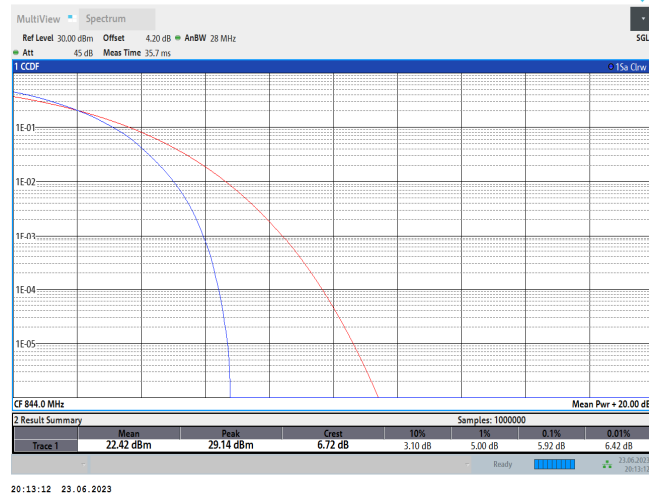
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Band5-10MHz-64QAM-20600-50RB#0



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 13 of 53

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS



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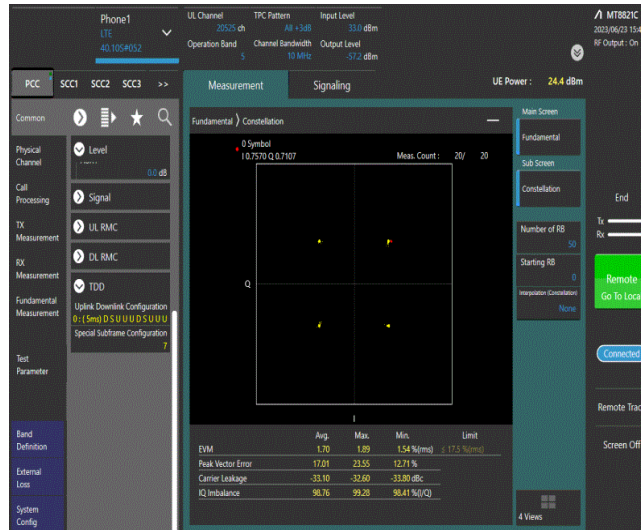
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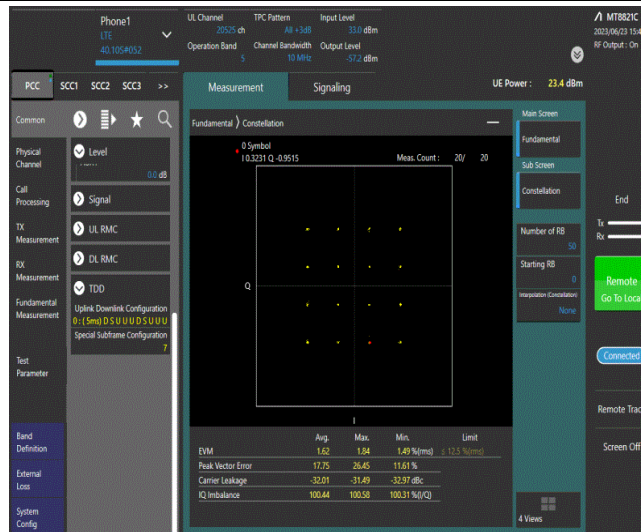
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Test Graphs

Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



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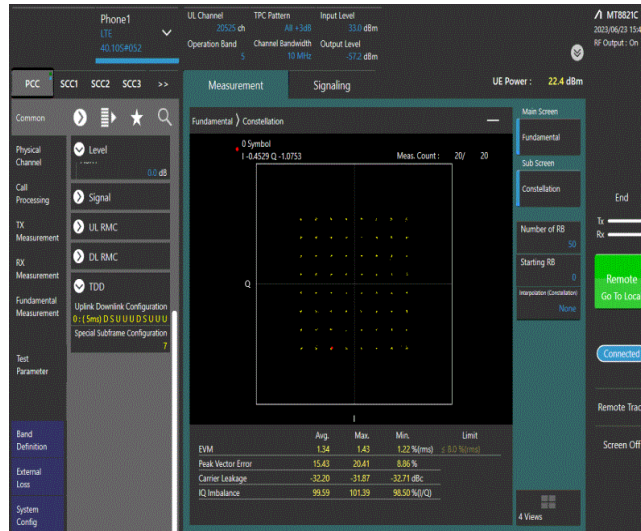
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Band5-10MHz-64QAM-20525-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.079	1.24	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.095	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.079	1.23	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.086	1.23	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.081	1.22	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.105	1.31	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.081	1.24	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.091	1.25	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.096	1.27	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.689	2.87	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.706	2.88	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.684	2.85	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.89	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.83	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.683	2.89	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.688	2.84	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.682	2.84	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.690	2.87	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.474	4.80	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.473	4.78	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.475	4.79	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.464	4.80	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.451	4.78	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.77	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.470	4.82	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.466	4.79	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.480	4.80	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.933	9.36	PASS



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 17 of 53

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Band5	10MHz	QPSK	20600	50RB#0	8.934	9.52	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.937	9.30	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.953	9.42	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.922	9.38	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.901	9.34	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.918	9.42	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.897	9.50	PASS



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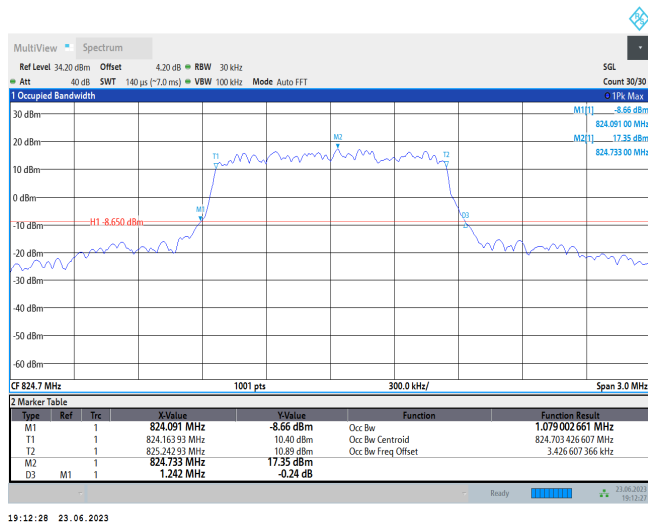
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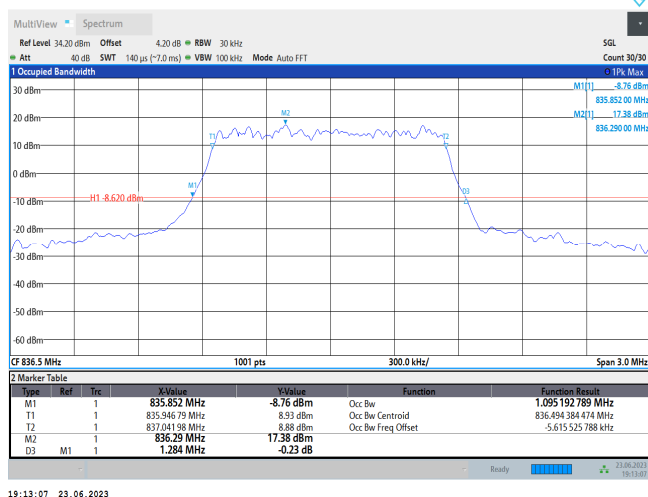
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Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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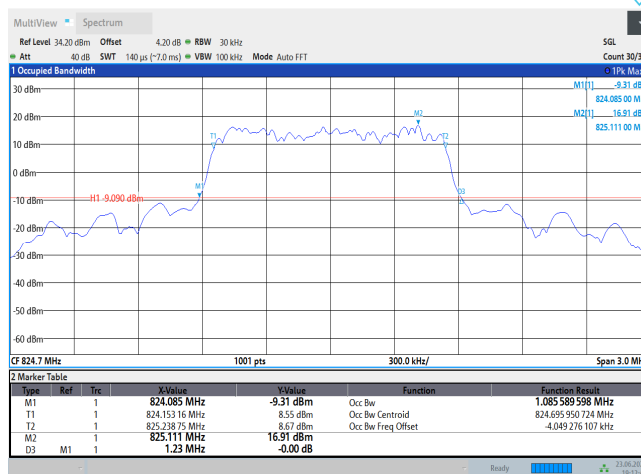
Page: 19 of 53

Band5-1.4MHz-QPSK-20643-6RB#0



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Band5-1.4MHz-16QAM-20407-6RB#0



19:12:41 23.06.2023



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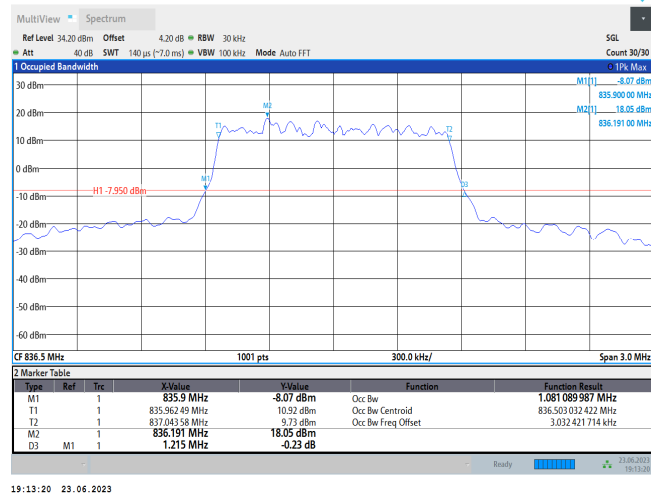
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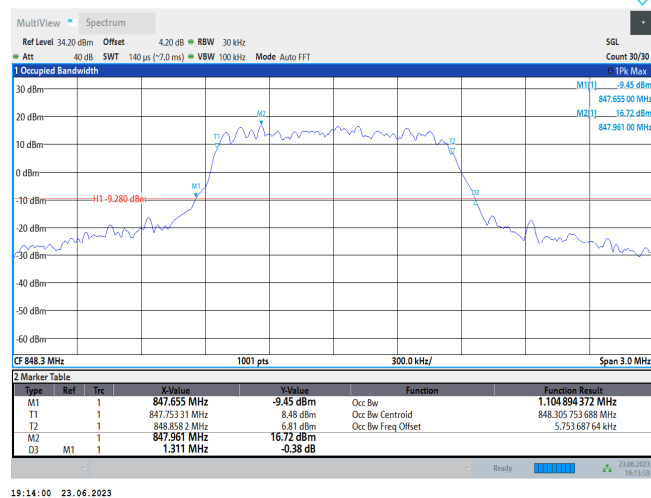
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Page: 20 of 53

Band5-1.4MHz-16QAM-20525-6RB#0



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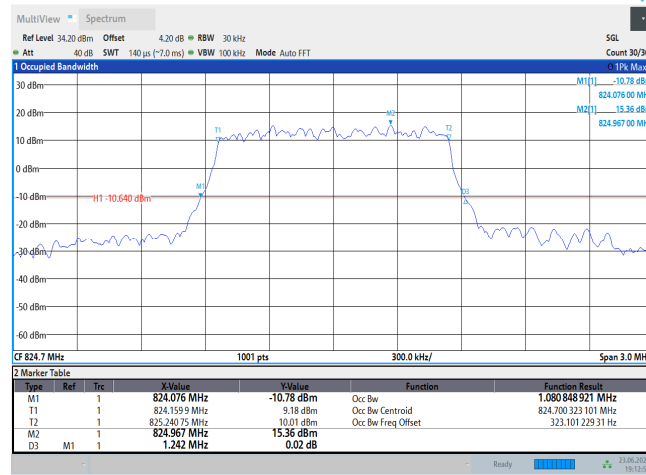
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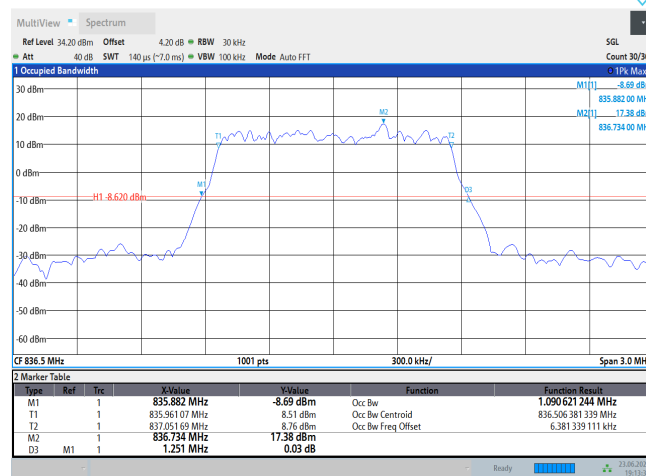
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19:13:33 23.06.2023



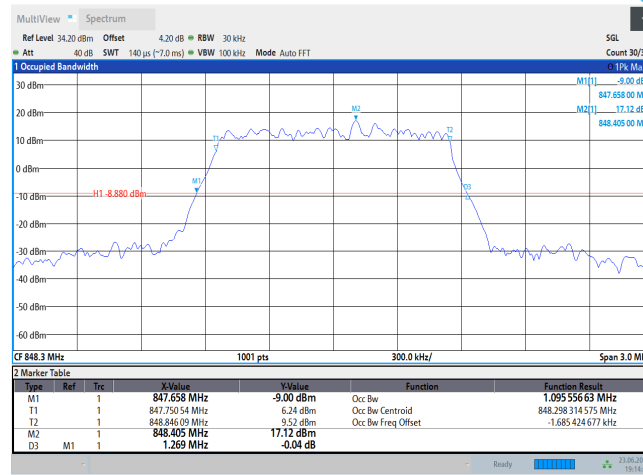
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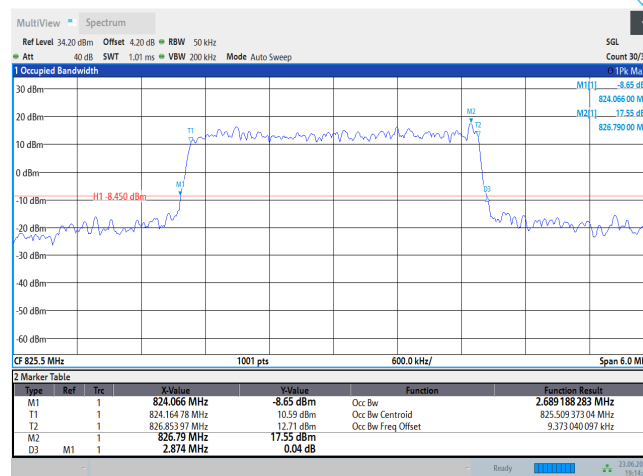
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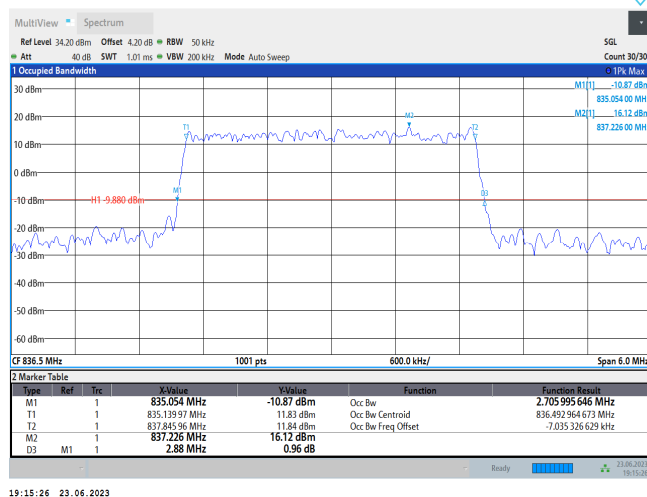
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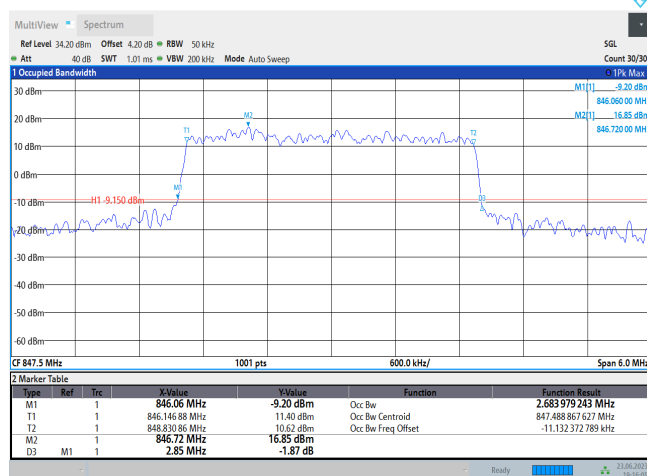
Page: 23 of 53

Band5-3MHz-QPSK-20525-15RB#0



19:15:26 23.06.2023

Band5-3MHz-QPSK-20635-15RB#0



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 24 of 53

Band5-3MHz-16QAM-20415-15RB#0



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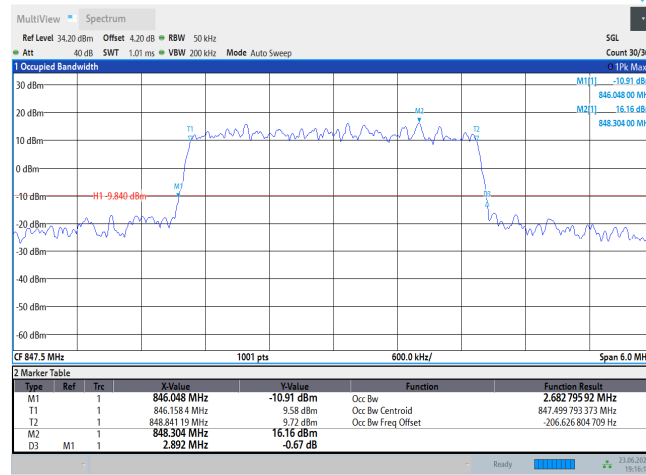
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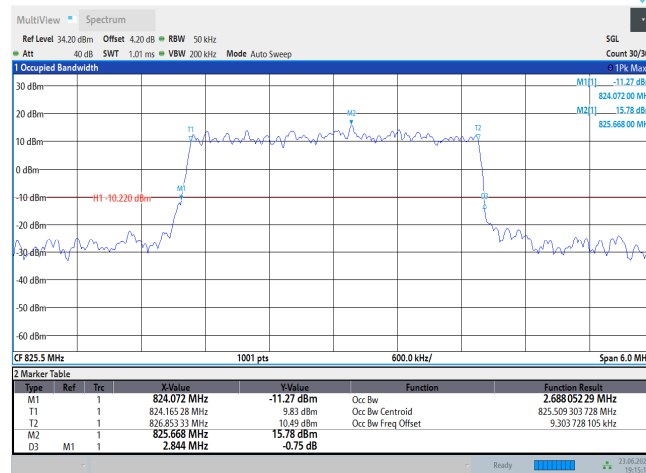
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Band5-3MHz-16QAM-20635-15RB#0



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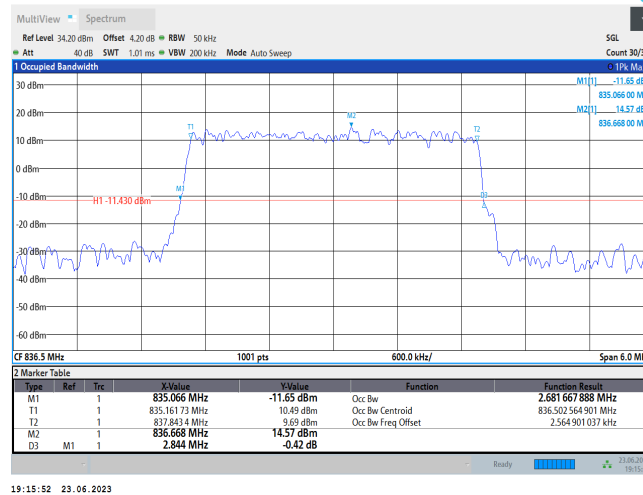
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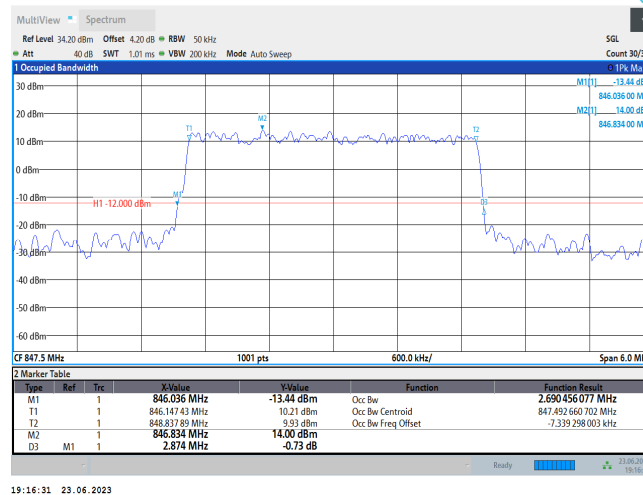
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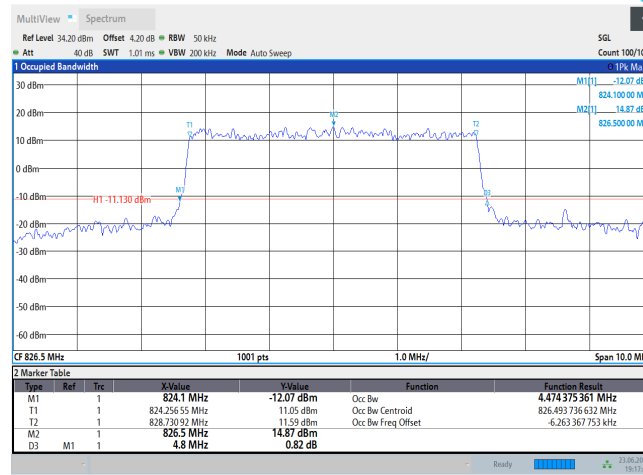
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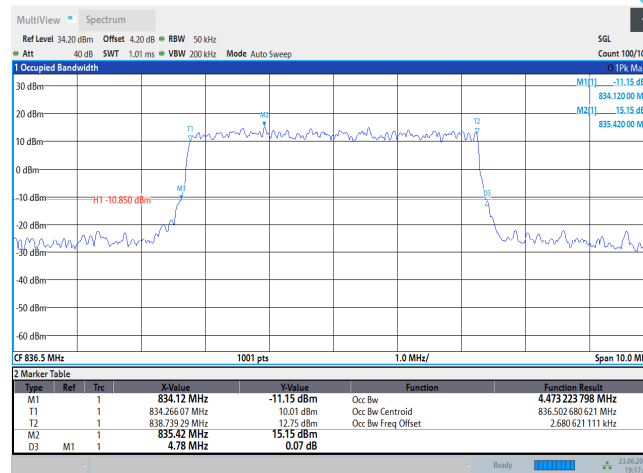
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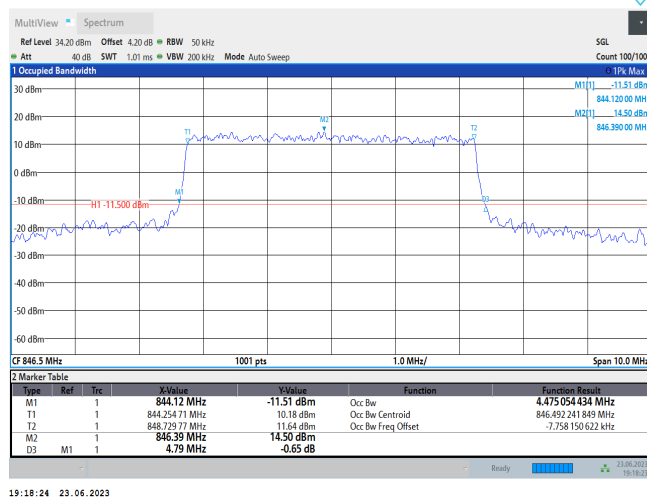
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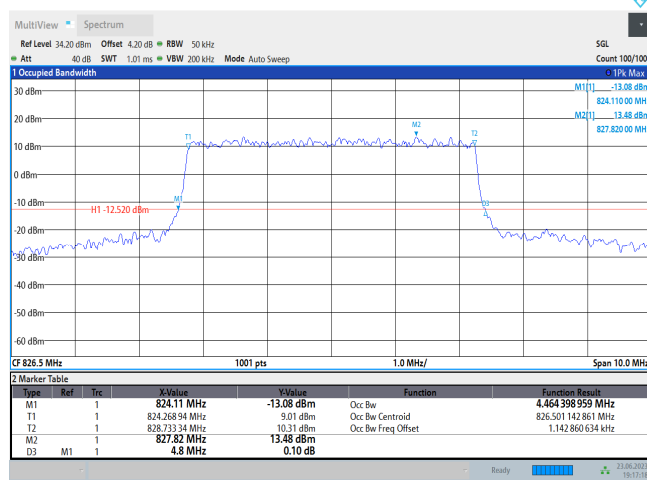
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Band5-5MHz-QPSK-20625-25RB#0



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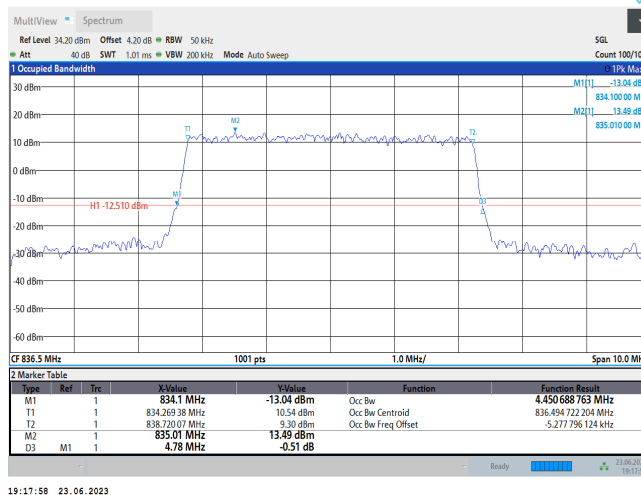
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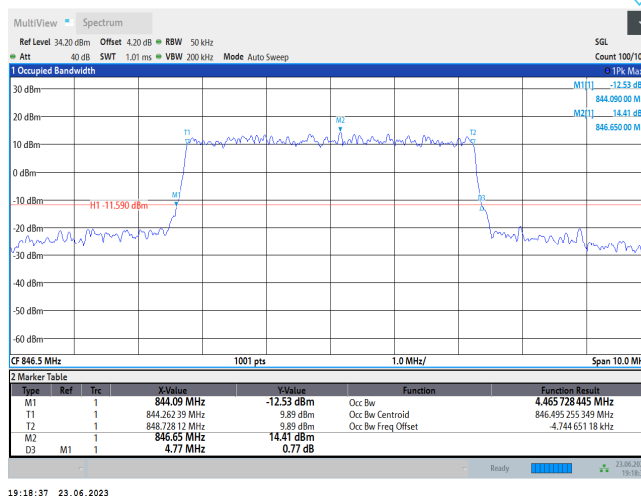
Page: 29 of 53

Band5-5MHz-16QAM-20525-25RB#0



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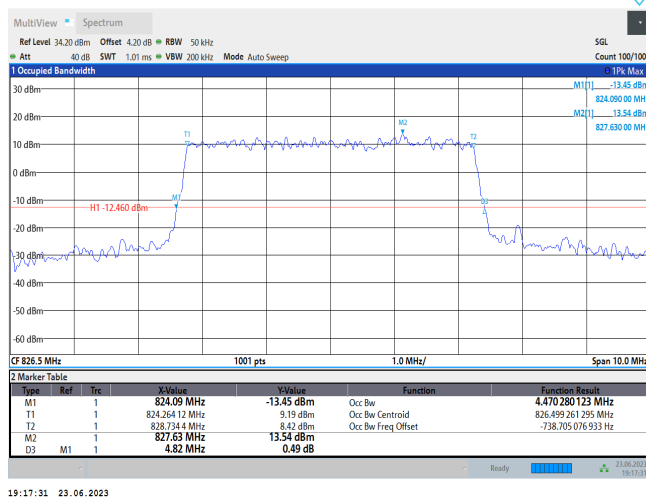
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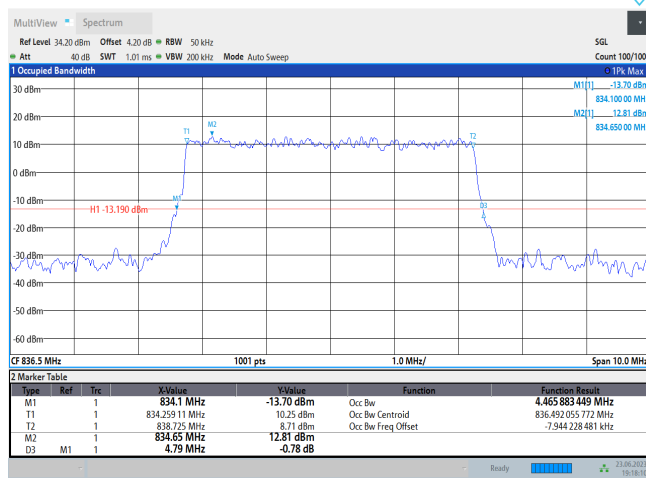
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Band5-5MHz-64QAM-20425-25RB#0



19:17:31 23.06.2023

Band5-5MHz-64QAM-20525-25RB#0



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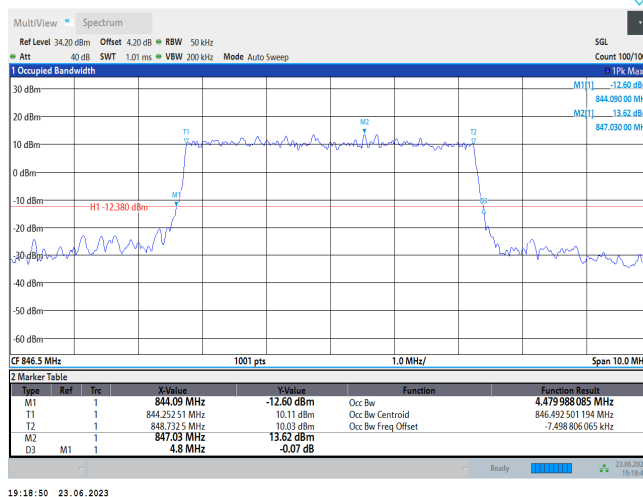
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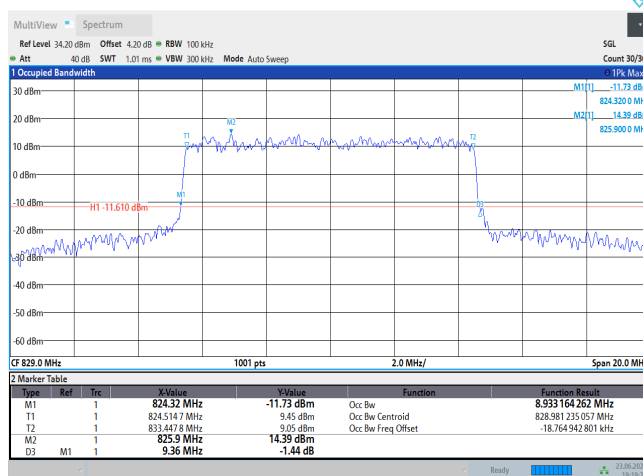
Page: 31 of 53

Band5-5MHz-64QAM-20625-25RB#0



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Band5-10MHz-QPSK-20450-50RB#0



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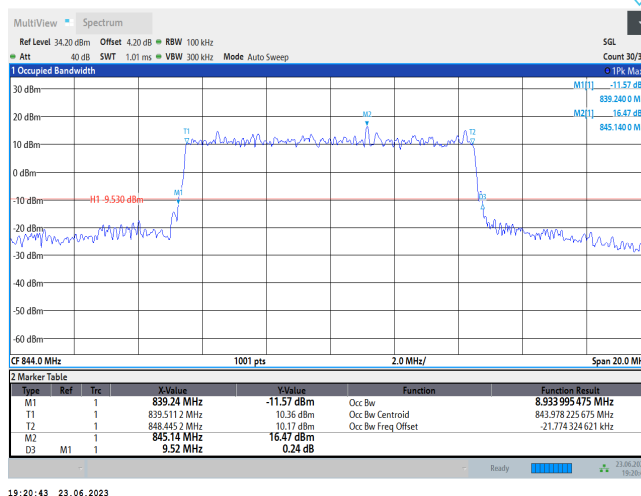
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Page: 32 of 53

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Band5-10MHz-QPSK-20600-50RB#0



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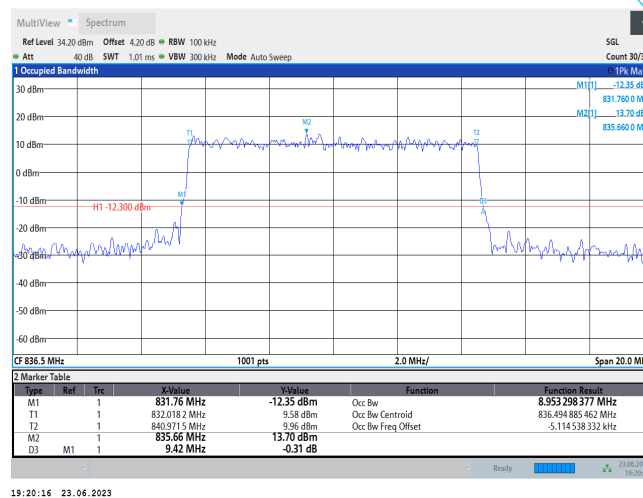
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Band5-10MHz-16QAM-20600-50RB#0



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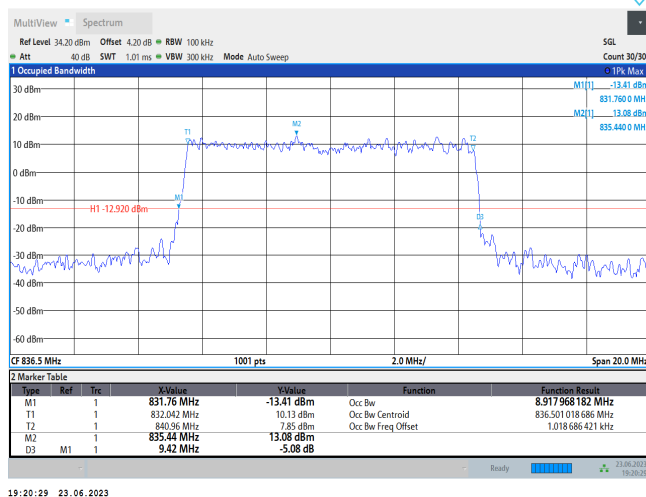
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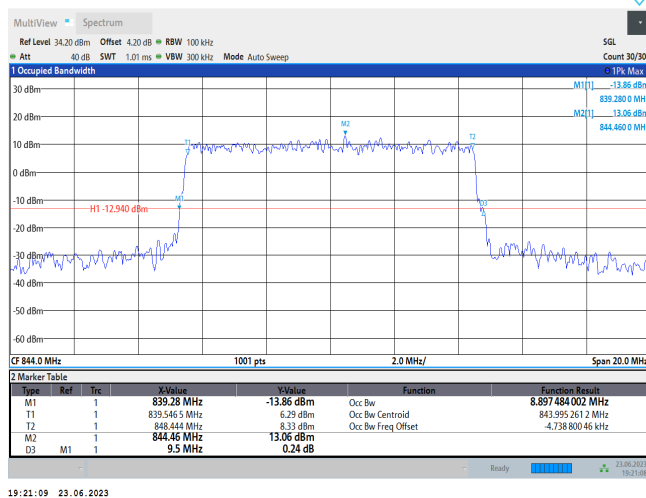
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Page: 35 of 53

Band5-10MHz-64QAM-20525-50RB#0



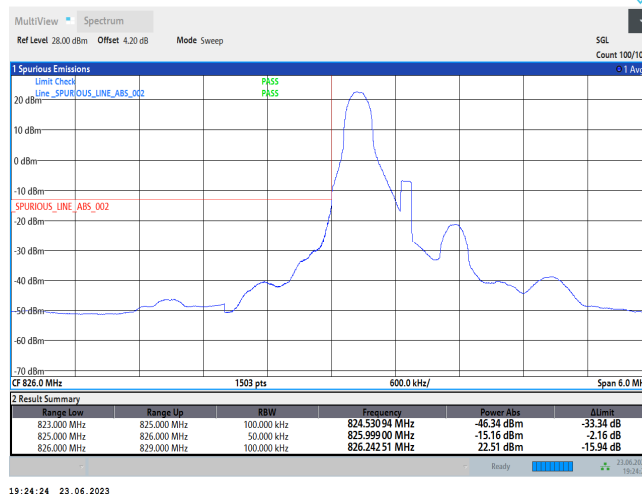
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Band Edge

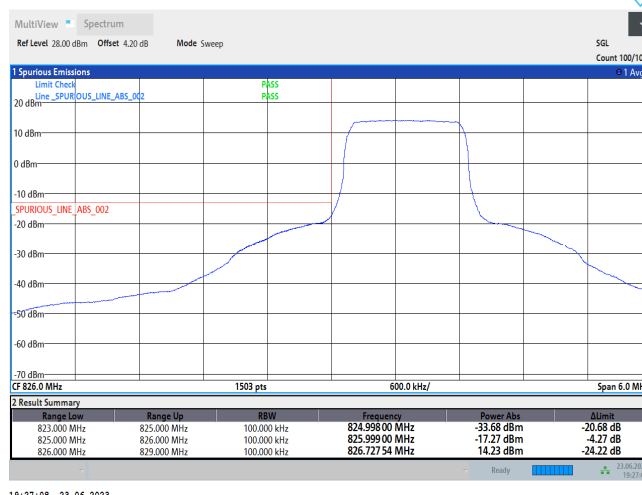
Test Graphs

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Band5-1.4MHz-QPSK-20427-6RB#0



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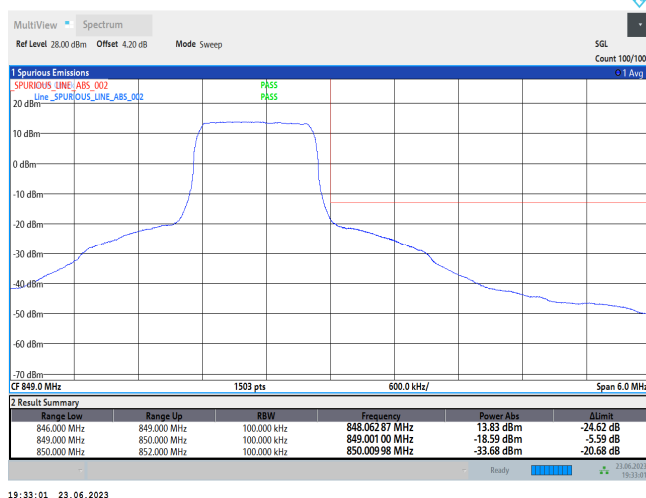
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Band5-1.4MHz-QPSK-20643-1RB#5



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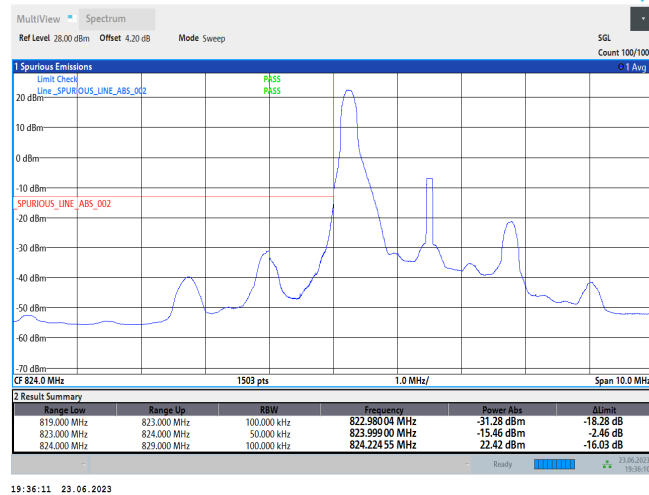
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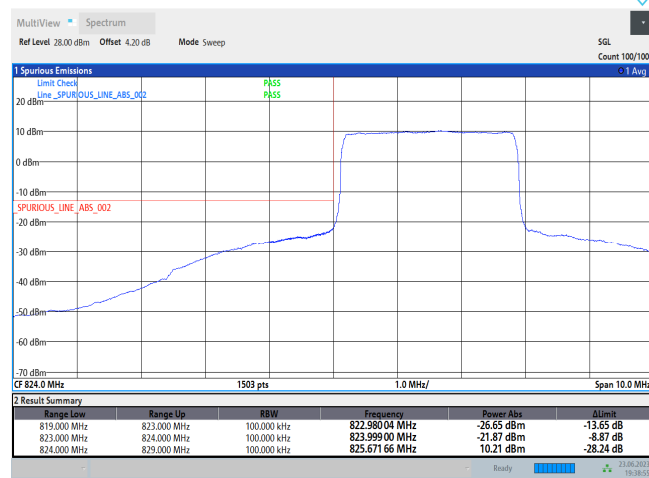
Page: 38 of 53

Band5-3MHz-QPSK-20415-1RB#0



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Band5-3MHz-QPSK-20415-15RB#0



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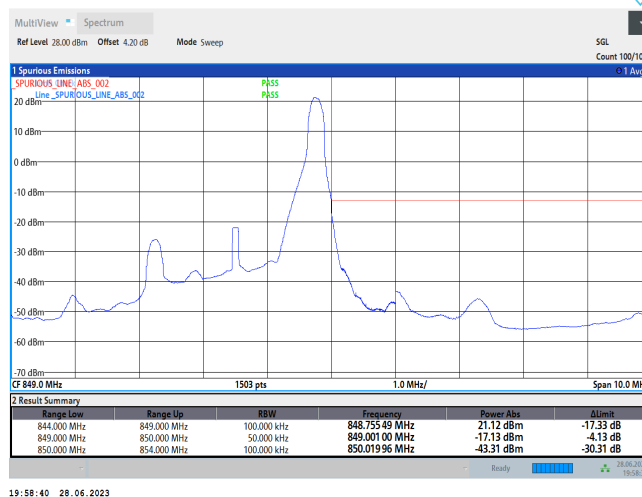
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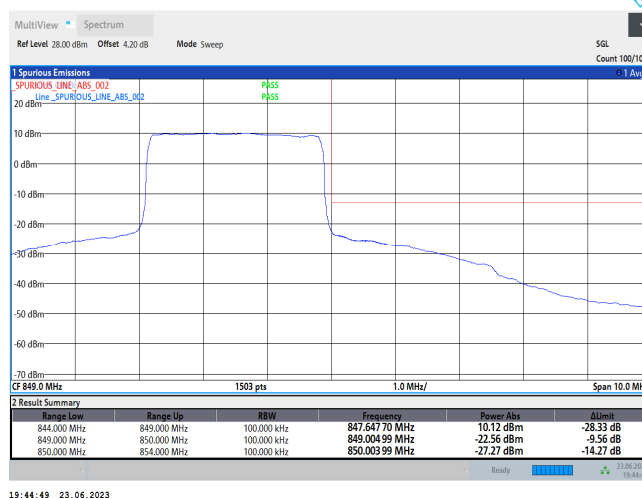
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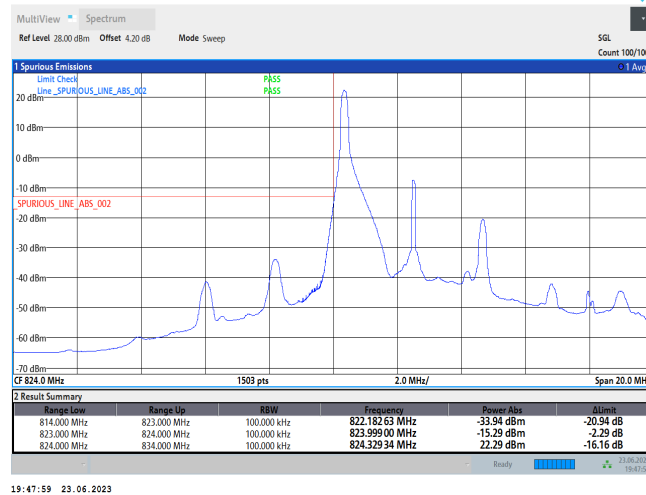
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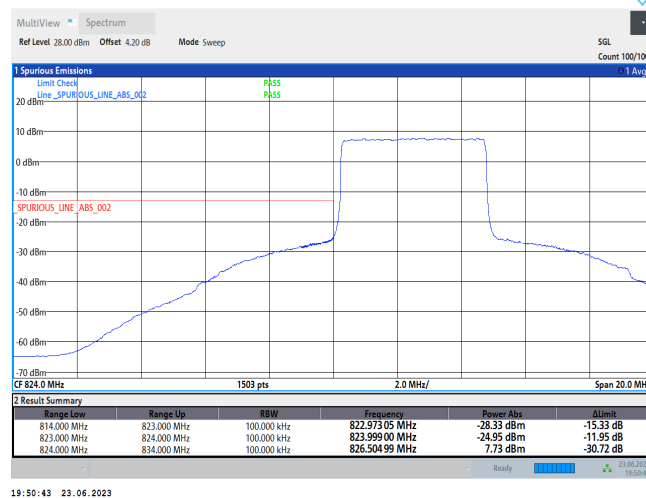
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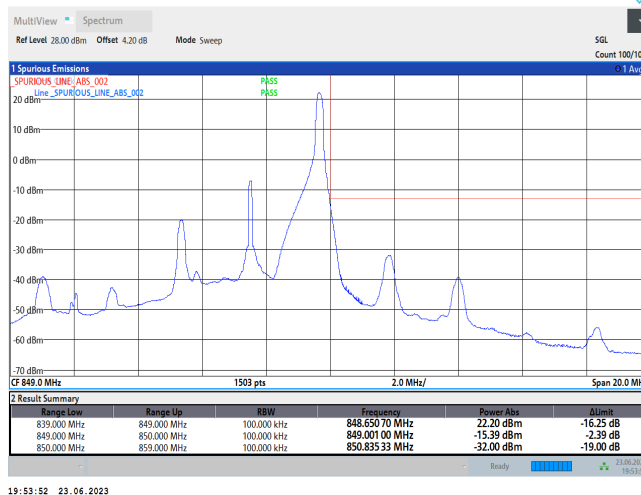
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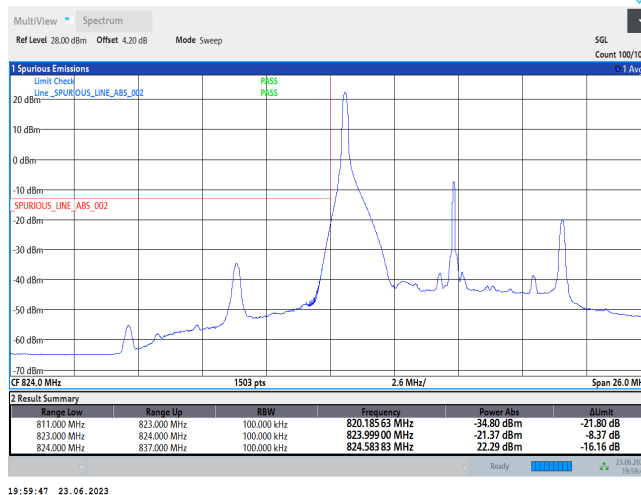
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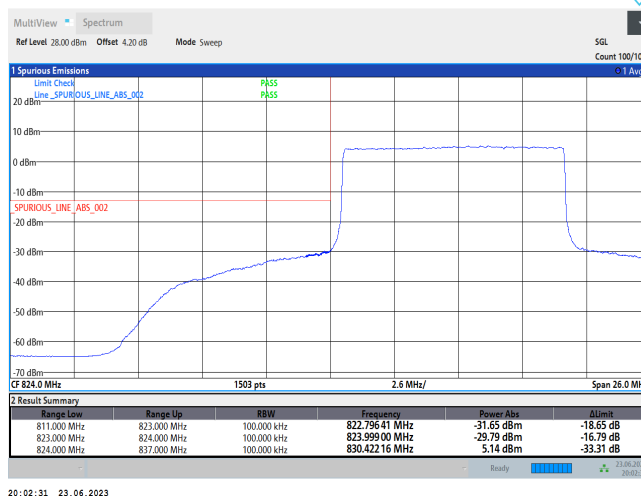
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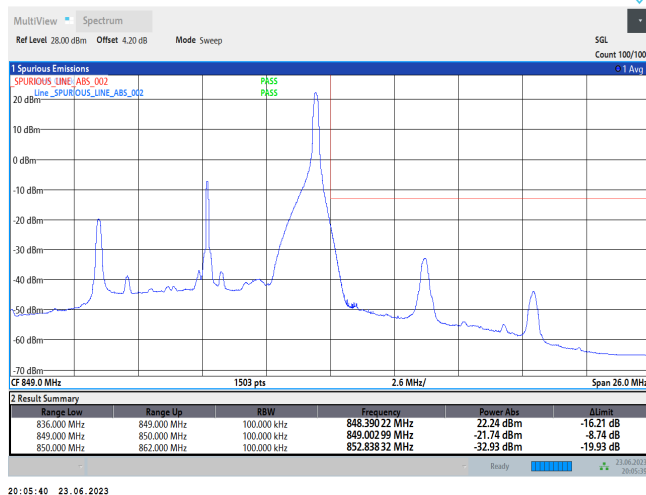
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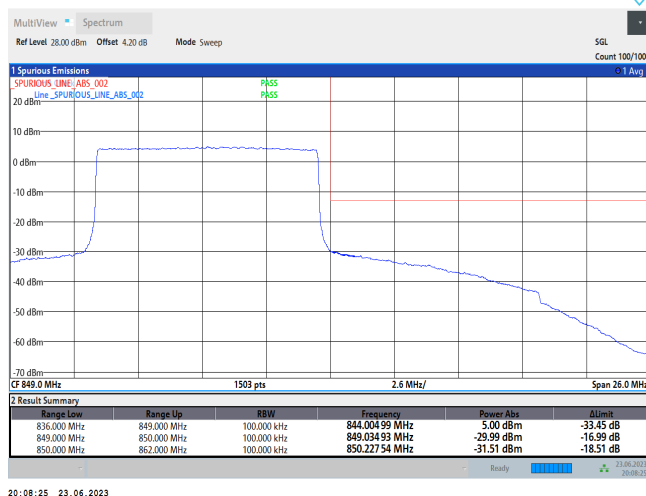
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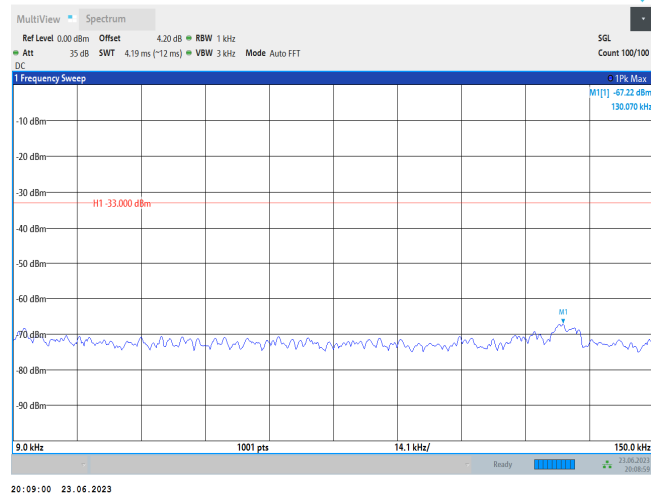
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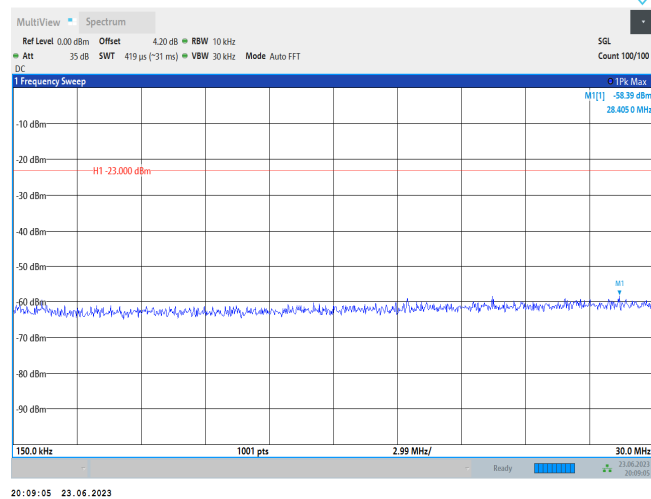
Conducted Spurious Emission

Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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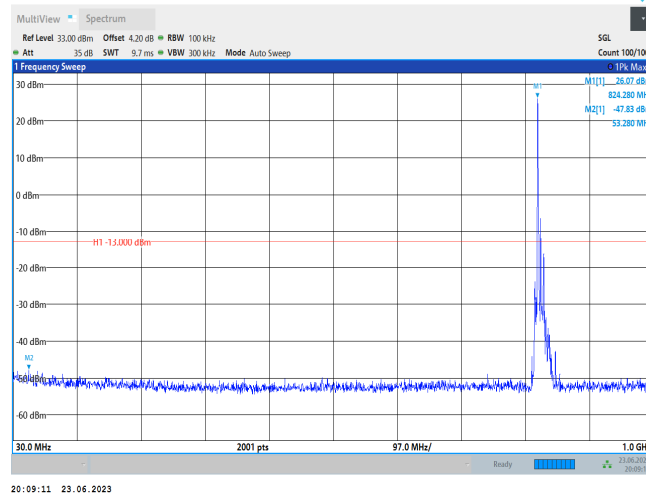
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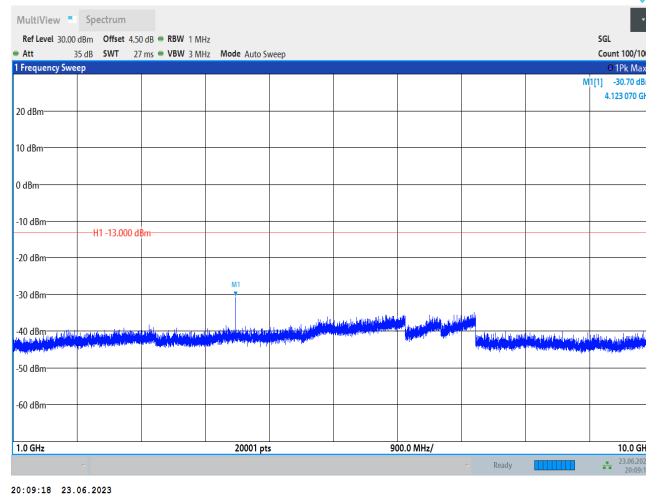
Rev.: 01

Page: 45 of 53

Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



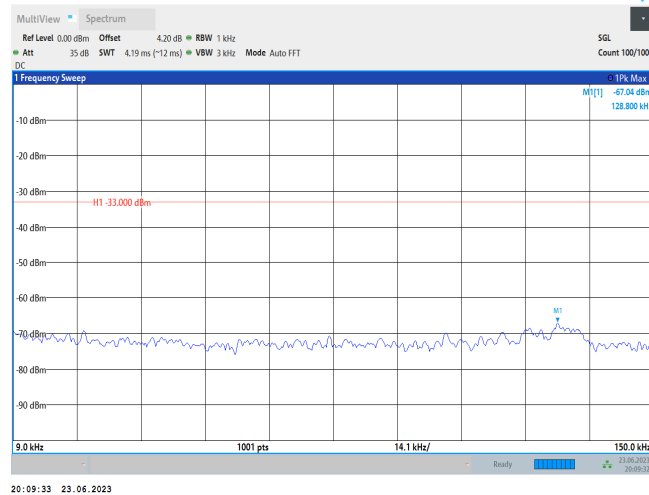
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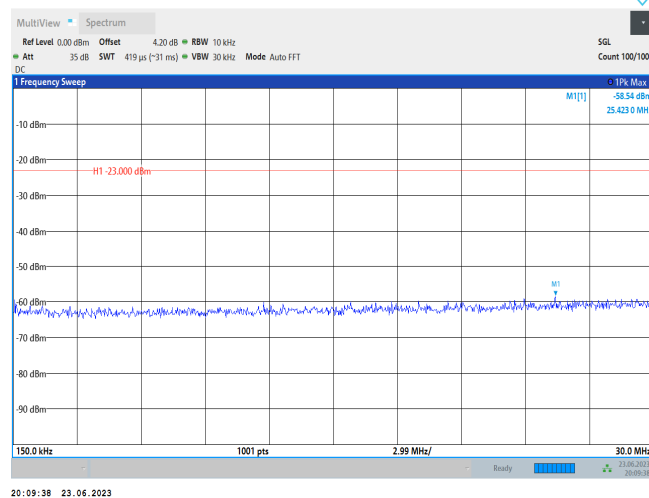
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz

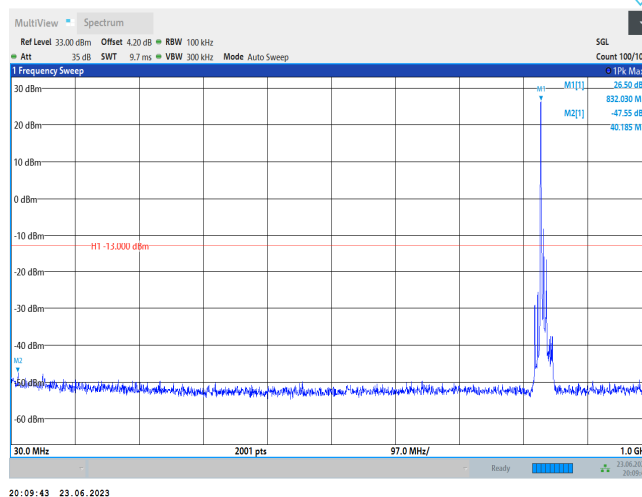


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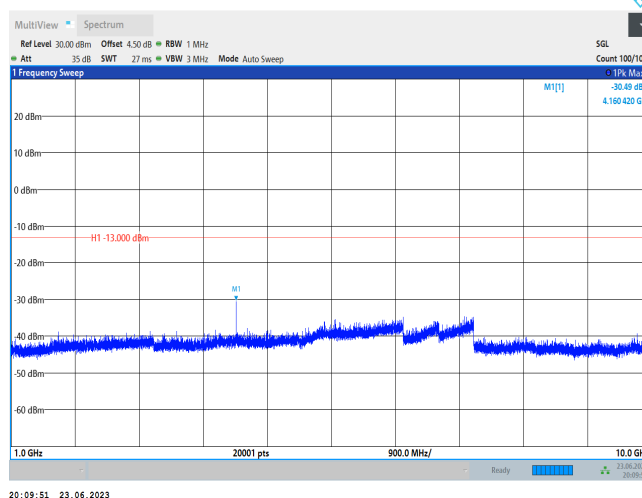
Rev.: 01

Page: 47 of 53

Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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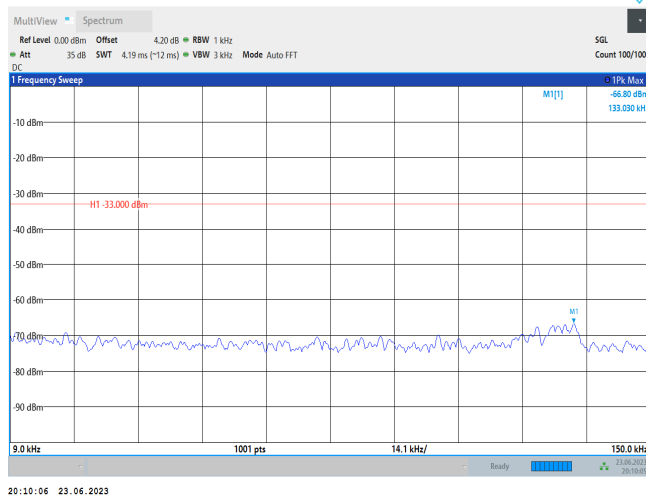
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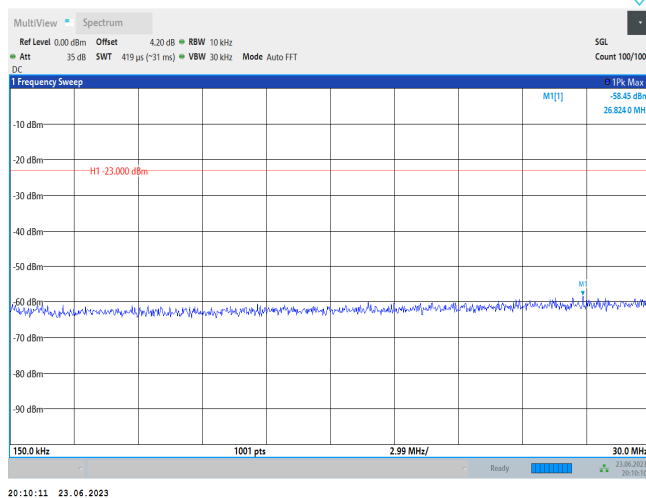
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Page: 48 of 53

Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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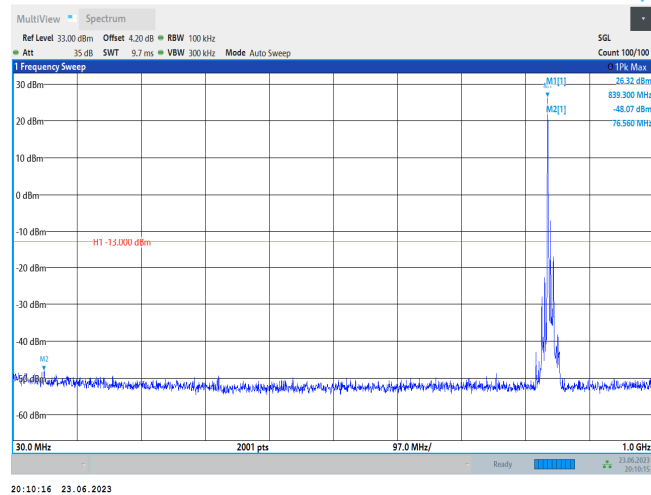
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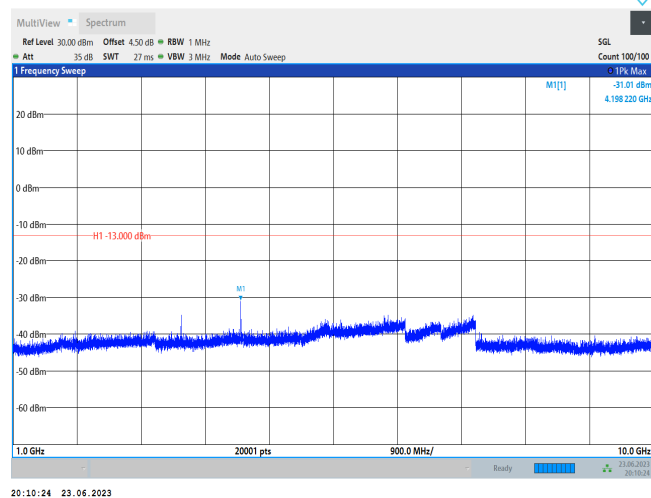
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Page: 49 of 53

Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE band 5_ TM1_10MHz

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	1658.8571	59.98	-48.21	25.29	-58.20	-13.00	45.20	244	132	Horizontal
2	2473.7700	43.01	-47.32	27.23	-72.34	-13.00	59.34	186	198	Horizontal
3	3316	58.52	-46.66	28.49	-54.91	-13.00	41.91	123	132	Horizontal
4	4145.7143	53.96	-45.93	29.45	-57.78	-13.00	44.78	269	185	Horizontal
5	4947.5400	41.14	-45.69	31.29	-68.52	-13.00	55.52	184	159	Horizontal
6	5772.1300	39.65	-44.64	32.65	-67.59	-13.00	54.59	172	359	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	1649.1800	46.15	-48.22	25.27	-72.06	-13.00	59.06	244	0	Vertical
2	2473.7700	42.45	-47.32	27.23	-72.90	-13.00	59.90	175	202	Vertical
3	3298.3600	42.76	-46.68	28.48	-70.70	-13.00	57.70	156	43	Vertical
4	4122.9500	40.92	-45.91	29.40	-70.86	-13.00	57.86	231	18	Vertical
5	4947.5400	41.28	-45.69	31.29	-68.38	-13.00	55.38	169	202	Vertical
6	5772.1300	39.58	-44.64	32.65	-67.66	-13.00	54.66	192	294	Vertical



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 51 of 53

Test Band = LTE band 5_ TM1_10MHz
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	1664.1800	48.99	-48.20	25.30	-69.18	-13.00	56.18	152	105	Horizontal
2	2496.2700	42.75	-47.28	27.29	-72.50	-13.00	59.50	120	305	Horizontal
3	3328.3600	43.27	-46.64	28.50	-70.13	-13.00	57.13	146	185	Horizontal
4	4160.4500	43.04	-45.94	29.49	-68.67	-13.00	55.67	172	118	Horizontal
5	4992.5400	41.92	-45.79	31.38	-67.75	-13.00	54.75	186	171	Horizontal
6	5824.6300	39.81	-44.74	32.67	-67.52	-13.00	54.52	193	305	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	1664.1800	46.07	-48.20	25.30	-72.10	-13.00	59.10	255	122	Vertical
2	2496.2700	43.18	-47.28	27.29	-72.07	-13.00	59.07	147	175	Vertical
3	3328.3600	42.75	-46.64	28.50	-70.65	-13.00	57.65	188	203	Vertical
4	4160.4500	42.01	-45.94	29.49	-69.70	-13.00	56.70	186	163	Vertical
5	4992.5400	41.08	-45.79	31.38	-68.59	-13.00	55.59	136	122	Vertical
6	5824.6300	39.89	-44.74	32.67	-67.44	-13.00	54.44	259	56	Vertical



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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 52 of 53

Test Band = LTE band 5_ TM1_10MHz
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	1679.1800	46.36	-48.18	25.32	-71.77	-13.00	58.77	244	197	Horizontal
2	2518.7700	42.52	-47.21	27.34	-72.61	-13.00	59.61	175	117	Horizontal
3	3358.3600	43.31	-46.60	28.52	-70.03	-13.00	57.03	129	132	Horizontal
4	4197.9500	41.20	-45.96	29.58	-70.44	-13.00	57.44	184	184	Horizontal
5	5037.5400	40.77	-45.65	31.49	-68.65	-13.00	55.65	153	64	Horizontal
6	5887.1300	40.39	-44.93	32.68	-67.12	-13.00	54.12	263	360	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	1679.1800	44.44	-48.18	25.32	-73.69	-13.00	60.69	244	164	Vertical
2	2518.7700	43.13	-47.21	27.34	-72.00	-13.00	59.00	175	255	Vertical
3	3358.3600	42.69	-46.60	28.52	-70.65	-13.00	57.65	184	243	Vertical
4	4197.9500	40.99	-45.96	29.58	-70.65	-13.00	57.65	122	294	Vertical
5	5037.5400	41.45	-45.65	31.49	-67.97	-13.00	54.97	156	109	Vertical
6	5887.1300	40.75	-44.93	32.68	-66.76	-13.00	53.76	199	216	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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Report No.: SEWM2305000178RG01

Rev.: 01

Page: 53 of 53

Frequency Stability

Test Result

Voltage										
Band	Band width	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-10.00	-0.011955	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-9.10	-0.010879	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-7.90	-0.009444	±2.5	PASS

Temperature										
Band	Band width	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-11.70	-0.013987	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-9.10	-0.010879	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-5.80	-0.006934	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-3.40	-0.004065	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-9.50	-0.011357	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-10.20	-0.012194	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-2.40	-0.002869	±2.5	PASS

---End of Attachment---



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Wireless Laboratory

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